AGENDA

August 17, 2022

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

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 on the City's website at roseville.ca.us/watch and roseville.ca.us/agenda, and the City's YouTube channel at youtube.com/CityofRosevilleCa.

If you need a 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. PUBLIC COMMENTS

6. CONSENT CALENDAR

BEGINNING OF CONSENT CALENDAR

Bids / Purchases / Services

6.1. Gibson Park Project - Approval of Plans and Specifications and Authorize Staff to Call for Bids

Memo from Park Development Project Manager Heather Buck and Parks, Recreation & Libraries Director Jill Geller recommending the City Council approve the plans and specifications for the Gibson Park Project and authorize staff to call for bids. The Gibson Park Project is located on the 13.75 acre site off of Roseville Parkway and Gibson Drive near the Galleria. The approved master plan for this multi-generational sports courts complex includes 12 lighted pickle ball courts, 10 lighted tennis courts, 3 lighted full courts for basketball, two shaded gathering areas, two restrooms, informal turf areas, a walking/looped path and 4 exercise pods. The first phase of the park includes at minimum, 3 lighted pickle ball courts and support features. Add alternatives are included to expand the initial number of pickle ball courts should the City receive competitive bids. The first phase of work is estimated at $2.375-3.765 million depending on the alternates selected. Funds for this first phase have been approved using the Citywide Park and Neighborhood Park Development Funds through the FY2020-21 Capital Improvement Program budget. Maintenance costs will be approximately $16,000/year/acre. The funding source for maintenance will be provided by the General Fund.

CC #: 2254

File #: 0704-01

CONTACT: Heather Buck 916-774-5254 hcbuck@roseville.ca.us

6.2. Kenwood Oaks Park Playground Structure Replacement Project - Contract Purchase Agreement

Memo from Park Development Project Manager Ken Peterson and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt RESOLUTION NO. 22-319 APPROVING A CONTRACT PURCHASE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND

PLAYPOWER LT FARMINGTON, INC. C/O ALL ABOUT PLAY AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3002391). Staff requests approval of a contract purchase agreement with PlayPower LT Farmington, Inc. C/O All About Play for $158,451.29 to remove and replace the playground structure. The school-aged playground structure at Kenwood Oaks Park is more than 20 years old. The playground structure has reached the end of its useful life. The project was approved in FY2020-21 using funds from the Parks, Recreation & Libraries Capital Projects Fund for Kenwood Oaks Park. Maintenance costs are funded by the General Fund and are anticipated to remain unchanged. There will be no new General Fund impacts.

CC #: 2251

File #: 0704-01

CONTACT: Ken Peterson 916-746-1233 kjpeterson@roseville.ca.us

6.3. Del Stephenson Park Playground Structure Replacement Project - Contract Purchase Agreement

Memo from Park Development Project Manager Ken Peterson and Parks, Recreation & Libraries Director Jill Geller recommending the City Council ADOPT RESOLUTION NO. 22-320 APPROVING A CONTRACT PURCHASE AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND PLAYPOWER LT FARMINGTON, INC. C/O ALL ABOUT PLAY, AND AUTHORIZE THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3002392). Staff recommends approval of a contract purchase agreement with PlayPower LT Farmington, Inc. C/O All About Play for $155,268.75 to remove and replace the playground structure. The school-aged playground structure at Del Stephenson Park is more than 20 years old. The playground structure has reached the end of its useful life. A budget adjustment of $170,000 was approved for FY2022-23 by Council on July 6, 2022. The allocation was approved using sinking funds from the Highland Reserve North Community Facilities District No. 2 (Services District). Ongoing maintenance costs are provided for Del Stephenson Park through the Highland Reserve North Community Facilities District No. 2 (Services District) and is expected to remain unchanged. There will be no General Fund impact.

CC #: 2252

File #: 0704-01

CONTACT: Ken Peterson 916-746-1233 kjpeterson@roseville.ca.us

6.4. 100kVA Distribution Transformers – Sole Source Purchase Order

Memo from Senior Power Engineer Ozro Corulli and Electric Utility Director Daniel Beans recommending the City Council adopt RESOLUTION NO. 22-313 APPROVING A SOLE SOURCE PURCHASE ORDER FOR 100kVA DISTRIBUTION TRANSFORMERS. Staff requests Council approve a sole source purchase order with Hyundai Corporation, in the amount of $635,725 for 100kVA distribution transformers. Staff is also requesting authorization for the City Manager or his designee to approve and pay for change orders up to ten percent (10%) of the contract amount or $63,572, for unforeseen inflated

material and/or shipping costs for a total of $699,298. Funding is included in the Electric Fund budget for FY2022-23.

CC #: 2245

File #: 0203-07

CONTACT: Ozro Corulli 916-774-5586 ocorulli@roseville.ca.us

6.5. Industrial Substation Switchgear #1 Replacement Civil Construction - Award of Contract

Memo from Power Engineer Austin Kurth and Electric Utility Director Dan Beans recommending the City Council adopt RESOLUTION NO. 22-318 APPROVING AN AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND INTERSTATE CONSTRUCTION, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff requests Council award a construction contract to Interstate Construction, Inc. in the amount of $179,880 for the Industrial Substation Switchgear #1 Replacement Civil Construction Project. This agreement provides for all work associated with the replacement of Industrial Substation Switchgear #1. Staff is also requesting authorization for the City Manager or his designee to approve and pay for contract change orders that could increase the contract amount by no more than 10%, or $17,988, for a total of $197,868. Funds are available in the Electric Fund FY2022-23 budget.

CC #: 2250

File #: 0900-03

CONTACT: Austin Kurth 916-774-5661 akurth@roseville.ca.us

6.6. Water Demineralization and Softening Trailers Supply - Contract Purchase Agreement

Memo from Power Generation Superintendent Matt Garner and Electric Utility Director Daniel Beans recommending the City Council adopt RESOLUTION NO. 22-328 APPROVING A CONTRACT PURCHASE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND SUEZ WTS SERVICES USA INC. AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3002354). Staff requests Council approval of a contract purchase agreement with Suez WTS Services USA Inc. to provide water demineralization and softening trailers on an as-needed basis for Roseville Electric owned or operated generation facilities. The total cost of the service is not to exceed $800,000 over four years, based on an average annual cost of $200,000 per year. Funding is included in the Electric Generation budget in the Electric Fund for FY2022-23 and will continue to be included in future year budgets for the term of the agreement.

CC #: 2266

File #: 0800-03

CONTACT: Matt Garner 916-746-1691 mgarner@roseville.ca.us

Resolutions

6.7. Downtown Water Mains Replacement Project – Hillcrest Neighborhood - Notice of Completion

Memo from Senior Engineer Janice Gainey and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 22-324 ACCEPTING THE PUBLIC WORK KNOWN AS THE DOWNTOWN WATER MAINS REPLACEMENT PROJECT – HILLCREST NEIGHBORHOOD, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE ENVIRONMENTAL UTILITIES DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. The Environmental Utilities Department completed final inspection of the project on July 7, 2022, and found the work to be completed in accordance with the improvement plans and City specifications. The total cost of the construction contract including all changes orders was $7,066,478.95. The project was funded by the Water Rehabilitation Fund.

CC #: 2261

File #: 0900-02

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

6.8. Pleasant Grove Wastewater Treatment Plant Expansion Project - Change Order Authority Increase

Memo from Senior Engineer Tracie Mueller and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 22-322 APPROVING CHANGE ORDER AUTHORITY. Staff requests authorization for the Environmental Utilities Director or his designee to approve and pay for contract change orders for the Design-Assist and Construction Agreement to W.M. Lyles Company for the Pleasant Grove Wastewater Treatment Plant Expansion Project which is currently under construction to add new primary clarification, additional solids handling, and new anaerobic digestion of primary solids and waste-activated sludge. This would increase the original contract amount by no more than 10% or $5,440,000. Funding for this agreement is provided by the South Placer Wastewater Authority through regional wastewater connection fees collected by the Regional Partners (approximately 65% City of Roseville, 11% Placer County and 24% South Placer Municipal Utility District).

CC #: 2259

File #: 0900-02-02-2

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

6.9. 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. 22-323 APPROVING AMENDMENT NO. 2 TO THE INSTALLMENT SALE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND CALIFORNIA STATE WATER RESOURCES CONTROL BOARD, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff requests Council approval of the Installment Sale Agreement Amendment for the Clean Water State Revolving

Fund (CWSRF) loan from the California State Water Resources Control Board for the Pleasant Grove Wastewater Treatment Plant Expansion Project which involves the addition of primary clarifiers, solids thickening equipment, and anaerobic digesters. The CWSRF interest rate of 1.3 percent or $78,347,000 is the lowest available financing option evaluated for South Placer Wastewater Authority (SPWA) to fund these projects. Signing this agreement initiates the financial commitments to repay the loans and repayment will be based on the amount of the loan used, which has not been revised in the amendment. The Debt Service Agreement between the City and SPWA will allow all CWSRF loan repayment costs made by the City to be fully reimbursed by the SPWA agency partners; therefore resulting in no direct fiscal impact to the City.
CC #: 2260

File #: 0900-02-02-2

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

6.10. Pleasant Grove Wastewater Treatment Plant Energy Recovery Project - Installment Sale Agreement Amendment

Memo from Senior Engineer Tracie Mueller and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 22-321 APPROVING AMENDMENT NO. 2 TO THE INSTALLMENT SALE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND CALIFORNIA STATE WATER RESOURCES CONTROL BOARD, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff requests Council approval of the Installment Sale Agreement Amendment for the Clean Water State Revolving Fund (CWSRF) loan from the California State Water Resources Control Board for the Pleasant Grove Wastewater Treatment Plant Energy Recovery Project. The adoption of the CWSRF Installment Sale Agreement Amendment 2 initiates the financial commitments to repay the loans and repayment will be based on the amount of the loan used, which has not been revised in the amendment. 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; therefore resulting in no direct fiscal impact to the City.

CC #: 2258

File #: 0800-02

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

6.11. Sierra Joint Community College District - Fareless Student Transit Pilot Program and Reimbursement Agreement

Memo from Alternative Transportation Manager Ed Scofield and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 22-326 APPROVING A REIMBURSEMENT AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND SIERRA JOINT COMMUNITY COLLEGE DISTRICT, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff requests approval of a reimbursement agreement with the Sierra Joint Community College District for Roseville Transit to receive partial reimbursement for providing free fares to Sierra College students

during a three-year pilot project running through June 30, 2025. Total average fares per year associated with this program is estimated to be $51,606. The proposed agreement obligates Sierra College to pay Roseville Transit 50% of these costs, which would total $25,803 per year based on current estimates. The remaining $25,803 would be absorbed by Roseville Transit's operations budget. This proposed action will not impact the FY2022-23 Roseville Transit budget and does not require additional hours of service. There is no impact to the General Fund.

CC #: 2264

File #: 0721

CONTACT: Ed Scofield 916-774-5449 ecscofield@roseville.ca.us

6.12. Creekview Phase 3 - Village 5 - Final Map and Subdivision Agreement

Memo from Assistant Engineer Kerry Andrews and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 22-316 APPROVING A SUBDIVISION AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND ANTHEM UNITED CREEKVIEW DEVELOPMENTS, LIMITED PARTNERSHIP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and approve the Creekview Phase 3 - Village 5 final map. Staff has completed its review of the final map and found that it is in compliance with the approved tentative map. This map will create 74 residential lots and 4 public landscape lots. The actions requested have no fiscal impact to the City's General Fund.

CC #: 2248

File #: 0400-04-13-1 & 0400-07

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

6.13. Creekview Phase 3 - Village 9 - Final Map and Subdivision Agreement

Memo from Assistant Engineer Kerry Andrews and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 22-317 APPROVING A SUBDIVISION AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND ANTHEM UNITED CREEKVIEW DEVELOPMENTS, LIMITED PARTNERSHIP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and approve the Creekview Phase 3 - Village 9 final map. Staff has completed its review of the final map and found that it is in compliance with the approved tentative map. This map will create 97 residential lots, 3 public landscape lots and 3 open space lots. The actions requested have no fiscal impact to the City's General Fund.

CC #: 2249

File #: 0400-04-13-1 & 0400-07

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

6.14. Creekview Phase 3 - Village 21 - Final Map and Subdivision Agreement

Memo from Assistant Engineer Kerry Andrews and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 22-314 APPROVING A SUBDIVISION AGREEMENT, BY AND BETWEEN

THE CITY OF ROSEVILLE AND ANTHEM UNITED CREEKVIEW DEVELOPMENTS LIMITED PARTNERSHIP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and approve the Creekview Phase 3 - Village 21 final map. Staff has completed its review of the final map and found that it is in compliance with the approved tentative map. This map will create 77 residential lots and 3 public landscape lots. The actions requested have no fiscal impact to the City's General Fund.

CC #: 2246

File #: 0400-04-13-1 & 0400-07

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

6.15. Creekview Phase 3 - Village 22 - Final Map and Subdivision Agreement

Memo from Assistant Engineer Kerry Andrews and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 22-315 APPROVING A SUBDIVISION AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND ANTHEM UNITED CREEKVIEW DEVELOPMENTS LIMITED PARTNERSHIP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and approve the Creekview Phase 3 - Village 22 final map. Staff has completed its review of the final map and found that it is in compliance with the approved tentative map. This map will create 74 residential lots, 3 public landscape lots and 1 open space lot. The actions requested have no fiscal impact to the City's General Fund.

CC #: 2247

File #: 0400-04-13-1 & 0400-07

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

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

6.16. Recycled Water Systems Evaluation Update - Professional Services Agreement and Budget Adjustment

Memo from Principal Engineer Bryan Buchanan and Environmental Utilities Director Richard Plecker recommending that City Council adopt RESOLUTION NO. 22-325 APPROVING A PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND WOODARD AND CURRAN INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6541 AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2022-23 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. Staff requests Council approval of the professional services agreement with Woodard and Curran, Inc. for the Recycled Water Systems Evaluation Update and approve a budget adjustment of $330,000 from available resources in the Wastewater Rehabilitation Fund to fully fund the project.

CC #: 2263

File #: 0800-02 & 0201-01

CONTACT: Bryan Buchanan 916-746-1812 bbuchanan@roseville.ca.us

6.17. Council Discretionary Funds - Budget Adjustment

Memo from Management Assistant Cary Camilleri and City Clerk Carmen Avalos recommending the City Council adopt ORDINANCE NO. 6540 AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2022-23 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. Staff requests Council consider a budget adjustment to carry forward Discretionary Funds from FY2021-22 for use in FY2022-23. There is no fiscal impact to the City's General Fund.

CC #: 2257

File #: 0102 & 0201-01

CONTACT: Cary Camilleri 916-746-1350 cacamiller@roseville.ca.us

Ordinances (for second reading and adoption)

6.18. Second Reading - Sierra Vista Specific Plan Parcel JM-41 and JM-30 - Rezone and Development Agreement Amendment

ORDINANCE NO. 6542 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. 6543 OF THE COUNCIL OF THE CITY OF ROSEVILLE ADOPTING A THIRD AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND SVC1, LLC 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 #: 2268

File #: 0400-02-12-2

CONTACT: Shelby Maples 916-746-1347 smaples@roseville.ca.us

6.19. Second Reading - Retiree Medical Insurance Optional Benefit - Roseville Municipal Code Amendment

ORDINANCE NO. 6544 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTIONS 3.09.030 AND 3.09.040 OF CHAPTER 3.09 OF TITLE 3 OF THE ROSEVILLE MUNICIPAL CODE REGARDING RETIREE MEDICAL INSURANCE OPTIONAL BENEFIT, for second reading and adoption.

CC #: 2269

File #: 0600-03

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

Reports / Requests

6.20. League of California Cities Annual Conference 2022 – Designation of Voting Delegate

Memo from Government Relations Administrator Mark Wolinski and Deputy City Manager Megan Scheid recommending the City Council appoint by motion, Dennis Kauffman, Assistant City Manager/Chief Financial Officer, as the voting delegate and Mark Wolinski, Government Relations Administrator as the alternate voting delegate to the League of California Cities business meeting of the General Assembly. The League of California Cities Annual Conference is being held September 7-9, 2022 in Long Beach, CA. The annual business meeting will be held at noon on Friday, September 9, 2022 when the membership takes action on resolutions that establish League policy. In order to vote at the Annual Business Meeting, the City Council must designate a voting delegate. Registration and travel costs total approximately $1,600 per delegate and the funds were approved in the City Council's and City Manager FY2022-23 budgets.

CC #: 2255

File #: 0102-12

CONTACT: Mark Wolinski 916-774-5179 mwolinski@roseville.ca.us

6.21. League of California Cities Annual Conference 2022 - Resolution Consideration

Memo from Government Relations Administrator Mark Wolinski and Deputy City Manager Megan Scheid recommending the City Council directs the City's voting delegate to support the League of California Cities resolution at its 2022 Annual Conference Business Meeting in Long Beach. This year, the League of California Cities Annual Conference is being held September 7-9, 2022 in Long Beach, CA. The annual business meeting will be held at noon on Friday, September 9, 2022 when the membership takes action on resolutions that establish League policy. There is no financial impact associated with this action.

CC #: 2270

File #: 0102-12

CONTACT: Mark Wolinski 916-774-5179 mwolinski@roseville.ca.us

6.22. Roseville Transit Service Changes

Memo from Alternative Transportation Manager Ed Scofield and Public Works Director Jason Shykowski recommending the City Council approve Roseville Transit's Proposed Service Changes for Fixed Route and Commuter Services. The proposed service changes will not result in an increase in vehicle revenue hours. The local service changes consist of a reallocation of service that reinstates the interlining between the E, G, F & C routes. The proposed commuter service changes result in a reduction in revenue hours, which lowers the costs to run the service. If staff decides in the future to add any or all of the seven suspended commuter routes, the additional service hours are already recognized in the existing not-to-exceed contract amount.

CC #: 2263

File #: 0721

CONTACT: Ed Scofield 916-774-5449 ecscofield@roseville.ca.us

END OF CONSENT CALENDAR

7. SPECIAL REQUESTS/REPORTS/PRESENTATION

7.1. Roseville Regional Sports Complex Project - Environmental Clearance and Master Plan Approval

Memo from the Park Planning & Development Superintendent Tara Gee and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt RESOLUTION NO. 22-329 ADOPTING THE SUBSEQUENT INITIAL STUDY/MITIGATED NEGATIVE DECLARATION AND APPROVING THE MITIGATION MONITORING AND REPORTING PROGRAM FOR THE ROSEVILLE REGIONAL SPORTS COMPLEX PROJECT AND APPROVING THE MASTER PLAN FOR THE ROSEVILLE REGIONAL SPORTS COMPLEX PROGRAM. Staff requests Council approve the Roseville Regional Sports Complex Mitigation Monitoring and Reporting Program and the master plan for the Roseville Sports Complex. The final master plan includes a ten-field lighted complex with fencing surrounding the fields, two plazas with restrooms and picnic areas, a north and south parking lot, a universally accessible playground (which is located outside of the fenced fields), a looped walking path, a misting cooling system, a corporation yard, EV charging stations with the potential of expansion and an opportunity for future solar panels. It is anticipated that the Complex will be a regional and statewide draw, thus becoming an economic driver for the City. A Subsequent Initial Study/Mitigated Negative Declaration was circulated for a 30-day comment period from July 12 to August 10, 2022. The Parks & Recreation Commission reviewed and approved the master plan, pending environmental clearance, at the August 1, 2022 meeting. Funding for this project was augmented by $25,050,000 in the FY2022-23 budget utilizing FY2020-21 General Fund year-end surplus, Strategic Improvement Funds, and Public Facilities Fee Funds. This augmentation brings the total project budget, including the additional 20-acre land purchase, to $35,542,198. Once constructed, there will be a General Fund impact for operations and maintenance with revenue offsets.

CC #: 2267

File #: 0704-01

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

7.2. Fiscal Year 2021-22 Third Quarter Financial Report

Memo from Assistant Finance Director 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 three quarters of Fiscal Year 2021-22 for the General Fund, the enterprise operating funds, and revenues in selected other funds. This item is a financial update only and has no fiscal impact.

CC #: 2253

File #: 0200

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

8. 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.

8.1. Tax and Equity Fiscal Responsibility Act Hearing - Hayden Parkway Apartments

Memo from Management Analyst Jeannine Thrash and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 22-327 APPROVING THE ISSUANCE BY THE CALIFORNIA STATEWIDE COMMUNITIES DEVELOPMENT AUTHORITY OF EXEMPT FACILITY BONDS FOR THE HAYDEN PARKWAY APARTMENTS. Staff requests Council approval of the issuance of Bonds by the California Statewide Communities Development Authority (CSCDA). Fiddyment Affordable Partners, L.P. (the Borrower) has requested that the CSCDA serve as the municipal issuer of tax-exempt multi-family housing revenue bonds in an aggregate principal amount not to exceed $28,000,000 (the Bonds). The proceeds of the Bonds will be used for the purpose of making a loan to the Borrower, to enable the Borrower to finance the acquisition, construction, improvement and equipping of a 94-unit affordable multifamily housing rental project located at North Hayden Parkway and Crawford Parkway, in Roseville, California (the Project), which will be owned and operated by the Borrower. In order for all or a portion of the Bonds to qualify as tax-exempt bonds, the City must conduct a Tax Equity and Fiscal Responsibility Act (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. There is no fiscal impact to the City. The Bonds will be issued as limited obligations of CSCDA, payable solely from revenues and receipts derived from a loan to be made by CSCDA to the Borrower with the Bond proceeds. The City bears no liability with respect to the issuance of the Bonds. Further, the City is not a

party to any of the financing documents related to the Bond issuance and is not named in any of the disclosure documents describing the Bonds or the proposed financing.

CC #: 2265

File #: 0200 & 0400-04-09-01

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

9. COUNCIL REPORTS / PUBLIC COMMENTS

10. ADJOURNMENT

COUNCIL COMMUNICATION

CC #: 2254
File #: 0704-01

Title:	Gibson Park Project - Approval of Plans and Specifications and Authorize Staff to Call for Bids
Contact:	Heather Buck 916-774-5254 hcbuck@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.1.

RECOMMENDATION TO COUNCIL

Staff recommends that the Council approve the plans and specifications for the Gibson Park Project and authorize staff to call for bids.

BACKGROUND

The Gibson Park Project is located on the 13.75 acre site off of Roseville Parkway and Gibson Drive near the Galleria. The master plan was approved in November 2020. The approved master plan for this multi-generational sports courts complex includes 12 lighted pickle ball courts, 10 lighted tennis courts, 3 lighted full courts for basketball, two shaded gathering areas, two restrooms, informal turf areas, a walking/looped path and 4 exercise pods.

The first phase of the park includes at minimum, 3 lighted pickle ball courts and support features. Bids are scheduled to be opened in September 2022. Add alternatives are included to expand the initial number of pickle ball courts should the City receive competitive bids. Staff plans to return to Council in October 2022 to seek approval to award the project.

FISCAL IMPACT

The first phase of work is estimated at $2.375-3.765 million depending on the alternates selected. Funds for this first phase have been approved using the Citywide Park and Neighborhood Park Development Funds through the FY2020-21 CIP budget. Maintenance costs will be approximately $16,000/year/acre. The funding source for maintenance will be provided by the General Fund.

ENVIRONMENTAL REVIEW

Development of the Gibson Community Park was previously evaluated in the North Central

Roseville Specific Plan (NCRSP) EIR (certified May 31, 1990, SCH No. 88053010), and identified in the associated NCRSP Specific Plan. Construction of the Gibson Community Park is within the scope of the project covered by the NCRSP Final EIR. As discussed in the NCRSP EIR, the EIR provides environmental analyses of community infrastructure and facilities, including parks, pedestrian bridges, and bike trails, to the extent applicable. Because the project is consistent with the NCRSP Final EIR and Specific Plan, no new effects would be expected to occur and all applicable mitigation measures from the NCRSP EIR will be implemented during the design and construction of the Gibson Community Park. As such, no additional environmental documentation is required.

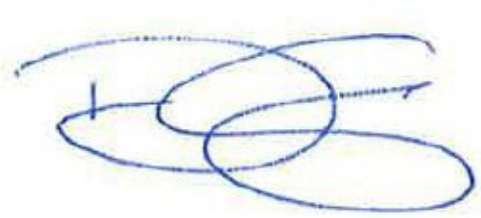
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal A - Remain fiscally responsible in a changing world
Goal B - Support community engagement and advocacy
Goal C - Maintain a safe and healthy community
Goal E - Deliver exceptional city services
Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Heather Buck, Park Development Project Manager

Jill Geller, Director, Parks, Recreation & Libraries



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

Vicinity Map

Master Site Plan with Alternates

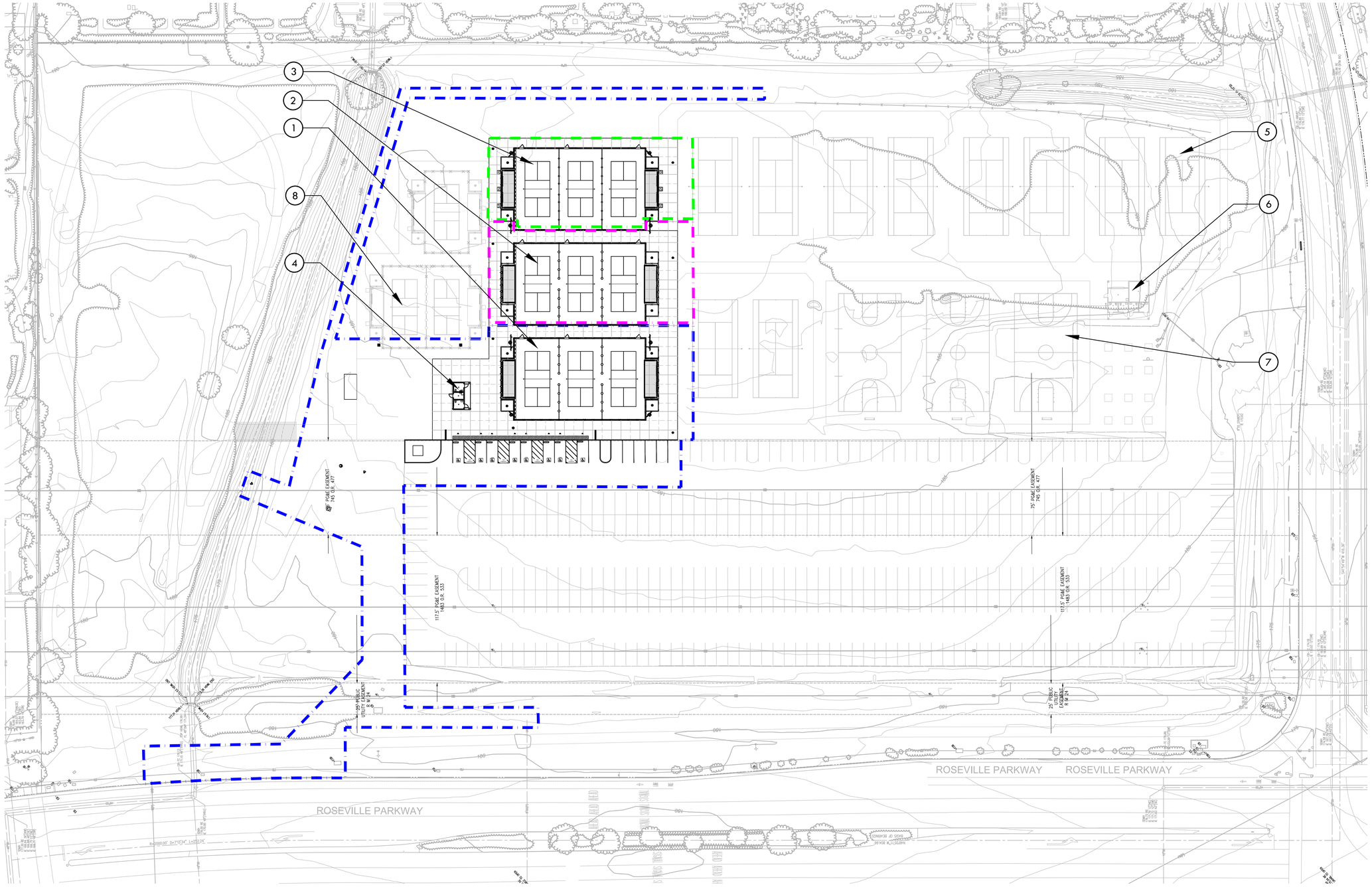
Project Manual

Plans

Gibson Park Site

Vicinity Map





1. BASE BID PICKLEBALL COURTS 1-3
2. ADD ALTERNATE 2: PICKLEBALL COURTS 4-6
3. ADD ALTERNATE 3: PICKLEBALL COURTS 7-9
4. BASE BID RESTROOM
5. FUTURE PHASE TENNIS COURTS 1-10
6. FUTURE PHASE RESTROOM
7. FUTURE PHASE BASKETBALL COURTS 1-3
8. FUTURE PHASE PICKLEBALL COURTS 10-12

BASE BID LIMIT OF WORK

ADD ALTERNATE 2 LIMIT OF WORK

ADD ALTERNATE 3 LIMIT OF WORK

NORTH

0 40' 80' 120'

2014500

APRIL 6, 2022

GIBSON PARK

BASE BID, ADD ALTERNATES & FUTURE PHASE

VERDE DESIGN

LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN

1843 Iron Point Rd, Suite 140
Folsom, CA 95630
tel: 408.985.7200
fax: 408.985.7260
www.verdedesigninc.com



Project Manual for the

Gibson Park Project

August 2022

The latest edition of the City of Roseville Parks Construction Standards are incorporated by reference as a part of this Project Manual. The Parks Construction Standards can be purchased at the address listed below.

Parks, Recreation & Libraries
316 Vernon Street, Suite 400
Roseville, California 95678
www.roseville.ca.us

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CITY OF ROSEVILLE CALIFORNIA

CITY OF ROSEVILLE CALIFORNIA

Parks, Recreation & Libraries
Park Development
316 Vernon Street, Suite 400
Roseville, California 95678

Notice to Bidders

DATE: August 18, 2022

TO: Prospective Bidders

FROM: Heather Buck, Park Development Project Manager

RE: Gibson Park Project

Project Description: The City of Roseville is now accepting bid proposals for the Gibson Park Project from **pre-qualified** Prime Contractors. The scope of work for the base bid includes, but is not limited to: site demolition, clear and grub of undeveloped lot and saw cut and partial removal of existing parking lot. Proposed improvements include construction of three(3) pickle ball courts (courts 1, 2, & 3) with perimeter fencing, city standard comfort station with stand-alone drinking fountain, new hardscape, landscape, site utilities, and path of travel and accessible parking for accessibility requirements. Sports lighting for three (3) pickle ball courts, sports lighting infrastructure, underground utility and electrical infrastructure for future phases also to be installed. Bid alternates include the addition of spectator shade structures and related improvements; and additional pickle ball courts.

Prime Contractors: At this time, this project is only available for bidding by Prime Contractors listed on the City of Roseville Parks, Recreation and Libraries 2022 Pre-Qualified Contractor List. Please see attached Pre-Qualified Prime Contractors memo attached for more information.

Subcontractors: The City reserves the right to conduct a post-bid qualifications review of any subcontractors if deemed necessary.

Contract Documents: A Project Manual, including all Contract Documents and the Proposal forms for bidding this project, may be obtained online from the City of Roseville's website at www.roseville.ca.us/business/procurement_services/bids_rfps. All communications relative to this project shall be conducted through Public Purchase.

Potential bidders are advised to obtain all documents and specifications related to this project directly from the City of Roseville. The City of Roseville does not guarantee the accuracy of any forms, plans, or project manuals obtained through outside sources other than the City of Roseville. Furthermore, the City does not guarantee the distribution of any addendums or the accuracy of their content if obtained from a third party. Bidders expressly assume the risk that their bid will be rejected from the use of project manuals or project plans obtained from third parties other than the City of Roseville.

Engineer's Estimate: The engineer's estimate for construction of the base bid items is $2,376,360.

Questions: The deadline for submission of questions and clarifications regarding the Contract Documents is September 6, 2022 at 5:00 p.m. In order to meet the required timeline to issue addenda, questions will not be accepted after this date. Only Addenda issued by the City are binding. All questions shall be directed to the attention of Heather Buck via Public Purchase at https://roseville.ca.us/rfp.

Pre-Bid Meeting: There is NO pre-bid conference for this project. Bidders are expected to be familiar with the existing site conditions however, and may pose questions on any conditions they may discover that are not represented within the bid documents.

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Bid Deadline: Proposals will be received at the Office of the City Clerk, 311 Vernon Street, Roseville, California, until 3:00 p.m. on September 13, 2022. The proposals will be publicly opened and read by the City Clerk or designee of the City of Roseville in the City Clerk's Office at 3:05 p.m. on that same day.

The July 2021 edition of the City of Roseville Parks Construction Standards will be applicable to this project. The successful bidder will be required to use the standards contained in the book for the construction of this project.

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Parks, Recreation & Libraries
Park Development
316 Vernon Street, Suite 400
Roseville CA 95678

Notice to the apparent low bidder for the Gibson Park Project

In order to move forward with the award of this project, the City of Roseville requests that you submit the following documents:

1. Agreement (two sets of originals, single-side print) with either:
   - wet signatures from two corporate officers, or
   - wet signature from one corporate office plus the corporate seal

2. Public Works Faithful Performance Bond – fully executed and notarized.

3. Public Works Labor and Materials Payment Bond – fully executed and notarized.

4. Insurance - fully executed and notarized.

The Agreement, bond forms and insurance requirements are contained in this Project Manual.

We request that all documents be received by September 23, 2022.

Please contact us if you are unable to meet this deadline.

Send completed forms to:

City of Roseville - Parks, Recreation & Libraries Department
Attn: Heather Buck
316 Vernon Street, Suite 400
Roseville CA 95678

The Parks, Recreation & Libraries Department requires submittal of all of the above executed documents prior to City Council bid award.

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916.774.5505 phone
916.774.5251 fax
www.roseville.ca.us

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Drawings	DRAW
Assembly Bill No. 626	AB 626

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CITY OF ROSEVILLE

DEPARTMENT OF PARKS, RECREATION & LIBRARIES

Name of Project: Gibson Park

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 September 13, 2022 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 September 13, 20 22 at the Office of the City Clerk located at 311 Vernon Street, Roseville California for the following project:

Gibson Park.

A pre-bid meeting will be held at n/a.

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

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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.

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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 or C-27 General Engineering or Landscape 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

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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 Heather Buck via Public Purchase at https://roseville.ca.us/rfp. The deadline for submissions of questions and clarifications regarding the Contract Documents is 7 calendar days before the deadline for

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bid submissions. Only Addenda issued by the City are binding.

_____
City Clerk, City of Roseville

Dated: _____

Published: _____

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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

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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.

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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

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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

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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,

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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,

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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

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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

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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.

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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.

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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.

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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)

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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.

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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.

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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.

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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.

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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

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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: _____

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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).

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[LIST OF SUBCONTRACTORS FOLLOWS ON NEXT PAGE.]

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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)

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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

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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.)

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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.

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Project Gibson Park_____

Contractor_____

SCHEDULE OF BID ITEMS

The bidder, in compliance with the published Notice to Contractors for the construction of new pickle ball courts, and any other items necessary as shown on the Plans and Specifications; having examined the Plans and Specifications, any and all addenda, any related documents, and all of the sites of the proposed work, and being familiar with all the conditions surrounding the construction of the proposed project, including the availability of material, hereby proposes to furnish all labor, materials, and supplies, and to construct the project in accordance with the Contract Documents, within the time period set forth therein, and at the prices stated. This is a "Lump Sum Bid" project. These prices are to include all labor, materials, supplies, and all other expenditures incidental to complete compliance to the Contract Documents.

The work to be included in the Contract shall be determined by the City prior to award of Contract. **The amount of the bid for comparison and award purposes shall be the total amount set forth in the "Total Lump Sum Bid," which includes the base bid and any alternates designated on the Schedule of Bid Items.** The City reserves the right to award none, all or selected add alternates as the budget permits.

BASE BID:
Base bid includes all work as shown on the plans, project manual, and addenda to construct the **Gibson Park Project.**

Numerical Total **Base Bid**: $_____

Written Total **Base Bid**: _____dollars and_____

ADD ALTERNATES:

ADD ALTERNATE #1 – Construction of two (2) spectator shade structures and related improvements as indicated on the Plans and in the Project Manual.

Numerical Total **Additive Alternate #1 Bid**:
$_____

Written Total **Additive Alternate #1 Bid**: _____dollars and_____

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ADD ALTERNATE #2 – Construction of three (3) additional pickleball courts (courts 4, 5, and 6) and two (2) spectator shade structures as indicated on the Plans and in the Project Manual.

Numerical Total **Additive Alternate #2 Bid**:
$_____

Written Total **Additive Alternate #2 Bid**: _____dollars and_____

ADD ALTERNATE #3 – – Construction of three (3) additional pickleball courts (courts 7, 8, and 9) and two (2) spectator shade structures as indicated on the Plans and in the Project Manual.

Numerical Total **Additive Alternate #3 Bid**:
$_____

Written Total **Additive Alternate #3 Bid**: _____dollars and_____

Winter Construction Suspension Allowance: **$15,000**

TOTAL LUMP SUM BID:

Total lump sum bid includes Lump Sum Base Bid plus Additive Alternate #1, Additive Alternate #2, Additive Alternate #3, and Winter Construction Suspension Allowance.

Numerical **Total Lump Sum Bid**: $_____

Written **Total Lump Sum Bid**: _____dollars and_____

The additions or deletions sheets (PROP 10 C-F) are required to be submitted with the proposal and shall be completed in their entirety. Failure to do so may be interpreted an as incomplete/non-responsive bid. This breakdown will not be considered for bid award but will be used during the contract in case of change orders.

Contractor Name (print or type): _____

Signature (by authorized representative): _____

Date: _____ License No.: _____ Class: _____

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Gibson Park Project

For Additions and Deletions Only

Contractor shall provide itemized costs as shown below for use during construction for additions or deletions only. Unit costs to be listed are based on the project plans, specifications, Parks Construction Standards and the Design & Construction Standards, unless otherwise noted. Items listed are not necessarily shown on the plans or identified in the Technical Specifications.

Item	Description	Unit	Unit Cost
1	EC-2 Preservation of Existing Vegetation	sf	
2	EC-3 Hydraulic Mulch	sf	
3	EC-4 Hydroseeding	sf	
4	EC-6 Straw Mulch	sf	
5	EC-7 Geotextiles and Mats	sf	
6	EC-8 Wood Mulching	sf	
7	EC-10 Velocity dissipation device	ea	
8	EC-11 Slope Drains	ea	
9	EC-14 Compost Blanket	sf	
10	EC-16 Non-Vegetative Stabilization	sf	
11	SE-1 Silt Fence	lf	
12	SE-5 Fiber Rolls	lf	
13	SE-6 Gravel Bag Berm	ea	
14	SE-7 Street Sweeping and Vacuuming	ea	
15	SE-8 Sandbag Barrier	lf	
16	SE-9 Straw Bale Barrier	lf	
17	SE-10 Storm Drain Inlet Protection	ea	
18	TC-1 Stabilized construction entrance/exit	ea	
19	TC-3 Entrance/outlet tire wash	ea	
20	Site security fencing	lf	
21	Clear and grub	sf	
22	Demolish hardscape	sf	
23	Sawcut	lf	

Items 1 through 19 are to be consistent with requirements detailed in California Stormwater Quality Association Stormwater Best Management Practice Handbook, latest edition.

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Gibson Park Project

For Additions and Deletions Only (continued)

Item	Description	Unit	Unit Cost
24	Demolish fencing	lf	
25	Rough and fine grading	sf	
26	6" storm drain line	lf	
27	8" storm drain line	lf	
28	10" storm drain line	lf	
29	12" drain inlet	ea	
30	24" junction box	ea	
31	48" junction box	ea	
32	Storm drain infiltration drain	lf	
33	Storm trench drain	lf	
34	Trench drain catch basin	ea	
35	Outlet control structure	ea	
36	Cobble energy dissipator	ea	
37	Cleanout in bio area	ea	
38	36" overflow riser	ea	
39	Downspout connection	ea	
40	1.5" domestic water line	lf	
41	2" domestic water line	lf	
42	3" domestic water line	lf	
43	Domestic water line connection (gate valves, meter, backflow)	ea	
44	4" sanitary sewer line	lf	
45	Sanitary sewer cleanout	ea	
46	Sanitary sewer connection (locate and tap)	ea	
47	Concrete paving - pedestrian (4 over 4)	sf	
48	Asphalt paving - pickleball court (2.5 over 4)	sf	
49	Asphalt paving - vehicular (3.5 over 9)	sf	
50	12" concrete curb w/fence (12x12)	lf	

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Gibson Park Project

For Additions and Deletions Only (continued)

Item	Description	Unit	Unit Cost
51	12" concrete edgeband w/fence (12x18)	lf	
52	6" edgeband at truncated domes	lf	
53	6" wide tall curb (6x18)	lf	
54	Truncated domes	sf	
55	ADA signage	ea	
56	Parking lot striping	sf	
57	10' chain link fence - black	lf	
58	48" tall chain link fence with top rail padding - black	lf	
59	Top railing padding for 48" tall fence	lf	
60	10' tall windscreen	lf	
61	Gate - 8' high x 4' wide swing CLF with transom and windscreen	ea	
62	Court identification sign	ea	
63	Trellis	lf	
64	Acrylic court surface and striping	sf	
65	Pickle ball nets and posts	set	
66	Pickle ball paddle rack	ea	
67	Park entry sign	ea	
68	Comfort Station	ea	
69	Drinking fountain	ea	
70	Service transformer pad and secondary	ea	
71	Roseville Electric primary raceway (4")	lf	
72	Roseville Electric primary box	ea	
73	Service Panel	ea	
74	Panel Board	ea	
75	Transformer - 75kVA	ea	
76	Lighting control	ea	
77	Restroom connection	ea	
78	Power yard structure	ea	
79	Security lighting - pole mounted	ea	
80	Security lighting - 1" conduit and wires	lf	
81	Sports lighting pull boes - 3x5 traffic	ea	
82	Sports lighting conduit - 2" PVC	lf	
83	Conductor - 6	lf	
84	Sport pole connection	ea	
85	Sports light poles with controls	ea	

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Gibson Park Project

For Additions and Deletions Only (continued)

Item	Description	Unit	Unit Cost
86	Soil preparation	sf	
87	Planting - no mow	sf	
88	Planting - 1 gallon	ea	
89	Trees - 15 gallon	ea	
90	Bioremediation sod planting	sf	
91	Bioremediation gravel 12" depth	tons	
92	Bioremediation soil 18" depth	cy	
93	Bark mulch (3" min. depth)	cy	
94	Decomposed granite	cy	
95	Landscape maintenance	mo	
96	Irrigation water line connection (tap line and meter)	ea	
97	Irrigation controller	ea	
98	Backflow preventer	ea	
99	Flow sensor	ea	
100	Master valve	ea	
101	4" irrigation mainline	lf	
102	2" irrigation mainline	lf	
103	Irrigation lateral line	lf	
104	Sleeves	lf	
105	Tree bubbler	ea	
106	Pop-up bubbler	ea	
107	Remote control valve	ea	
108	Quick coupler valve in hardscape	ea	
109	Quick coupler valve in landscape	ea	
110	Gate valve	ea	
111	Leaning rail	ea	
112	Trash receptacle	ea	
113			
114			
115			
116			
117			
118			
119			
120			

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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)

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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: _____

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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: _____

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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

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END OF PROPOSAL

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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

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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

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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
_____	_____
_____	_____
_____	_____
_____	_____

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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

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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:_____
CARMEN AVALOS
City Clerk

_____, a
_____

BY: _____
its: _____

and

BY: _____
its: _____

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APPROVED AS TO FORM:

BY: _____
MICHELLE SHEIDENBERGER
City Attorney

APPROVED AS TO SUBSTANCE:

BY: _____

Print Name:_____

Title:_____

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INSURANCE BROKER INFORMATION PACKET

Project: Gibson Park

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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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 Gibson Park. 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: Heather Buck

City of Roseville, Parks, Recreation & Libraries
316 Vernon Street, Suite 400
Roseville, CA 95678

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.

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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

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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

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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.

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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.

[redacted]

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[redacted]

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

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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

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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.

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Bond No. _____
Premium $_____

PUBLIC WORKS
FAITHFUL PERFORMANCE BOND
(Project: Gibson Park)

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

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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]

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

PRINCIPAL:

BY:_____

PRINT NAME: _____

PRINT TITLE: _____

AND

BY: _____

PRINT NAME: _____

PRINT TITLE:_____

SURETY:

BY:_____

PRINT NAME: _____

PRINT TITLE:_____

MAILING ADDRESS:

_____

_____

_____

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

APPROVED AS TO FORM:

BY: _____
City Attorney

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Bond No. _____
Premium $_____

PUBLIC WORKS
LABOR AND MATERIALS PAYMENT BOND
(Project: Gibson Park)

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.

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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:

BY:_____

PRINT NAME: _____

PRINT TITLE: _____

AND

BY: _____

PRINT NAME: _____

PRINT TITLE:_____

SURETY:

BY:_____

PRINT NAME: _____

PRINT TITLE:_____

MAILING ADDRESS:

_____

_____

_____

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

APPROVED AS TO FORM:

BY: _____
City Attorney

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For Council Approval

CITY OF ROSEVILLE

GENERAL CONDITIONS

FOR

BUILDINGS AND GROUNDS

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For Council Approval

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

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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

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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

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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

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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

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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

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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

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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.

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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

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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

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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.

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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

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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

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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

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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-

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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.

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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

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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,

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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

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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."

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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

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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

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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

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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.

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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

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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

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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.

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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

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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

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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

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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

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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.

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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.

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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

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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.

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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:

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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

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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

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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

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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,

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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

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(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.

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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

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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.

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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.

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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

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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

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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

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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.

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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

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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

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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.

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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

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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

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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.

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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

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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

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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.**

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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

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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

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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

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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

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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

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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.

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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

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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

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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

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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

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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

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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).

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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.

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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

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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

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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

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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.

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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

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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.

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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

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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

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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

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(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

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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.

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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

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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

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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.

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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

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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,

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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.

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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.

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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.

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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.

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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

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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

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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.

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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.

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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

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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.

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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

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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

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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

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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

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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)

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(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

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(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.

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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.

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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

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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

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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").

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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

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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

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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

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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

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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

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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

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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

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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

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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.

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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

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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

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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

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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.

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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

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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,

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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

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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

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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

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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

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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

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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

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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

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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

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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.

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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

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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:

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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.

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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

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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.

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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]

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SUPPLEMENTAL CONDITIONS

Project: Gibson Park

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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.

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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 ~~Parks Recreation & Libraries~~ Department of the City of Roseville.

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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 14 Days after receipt of the submittal by the Director.

2.1.28 PROJECT DOCUMENTS. Potential bidders are advised to obtain all documents and specifications related to this project directly from the City of Roseville. The City of Roseville does not guarantee the accuracy of any forms, plans, or project manuals obtained through outside sources other than the City of Roseville. Furthermore, the City does not guarantee the distribution of any addendums or the accuracy of their content if obtained from a third party. Bidders expressly assume the risk that their bid will be rejected from the use of plans and manuals obtained from third parties other than the City of Roseville

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SECTION 3. CHANGES IN THE WORK

There are no amendments to the General Conditions.

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SECTION 4. CONTROL OF MATERIALS

There are no amendments to the General Conditions.

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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.

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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 90 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.

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SECTION 7: ACCEPTANCE AND PAYMENT

7-1.07 PROGRESS PAYMENTS. Section 7-1.07 of the General Conditions is amended to include the following:

The Contractor shall email an electronic copy of Certified Payroll Reports to the Project Manager along with each Application for Payment.

[END OF SUPPLEMENTAL CONDITIONS]

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SPECIFICATIONS

Project: Gibson Park

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Gibson Park
1099 Roseville Parkway, Roseville, CA 95678

PROJECT SPECIFICATIONS

100% Submittal

05/20/2022

PREPARED BY:



Project No. 2014500

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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, backstops, restrooms, shade structures, drinking fountain (plumbing code), and miscellaneous electrical.

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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 copy of the permit is included in the Appendix of the Project Manual. 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

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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:
Gibson Park
1099 Roseville Parkway, Roseville

B. Project description/scope of work:
The scope of this project includes but is not limited to the following: site demolition, clear and grub of undeveloped lot and saw cut and partial removal of existing parking lot. Proposed improvements include construction of three (3) pickle ball courts (courts 1, 2, & 3) with perimeter fencing, city standard comfort station #2 with stand alone drinking fountain, new hardscape, landscape, site utilities, and path of travel and accessible parking for accessibility requirements. Sports lighting for three (3) pickle ball courts, sports lighting infrastructure, underground utility and electrical infrastructure for future phases also to be installed.

Bid Alternate #1: Construction of two (2) spectator shade structures, one on the west side of court 1 and one on the east side of court 3 and related improvements including but not limited to, hardscape, utilities and electrical.

Bid Alternate #2: Construction of three (3) additional pickleball courts with perimeter fencing (courts 4, 5, & 6) located to the north of courts 1-3. Including two (2) spectator shade structures one located on the west side of court 4 and the other on the east side of court 6, sports court lighting and related improvements including, but not limited to, hardscape, furnishings, utilities and electrical.

Bid Alternate #3: Construction of three (3) additional pickleball courts with perimeter fencing (courts 7, 8, & 9) located to the north of courts 4-6. Including

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two (2) spectator shade structures one located on the west side of court 7 and the other on the east side of court 9, sports court lighting and related improvements including, but not limited to, hardscape, furnishings, utilities and electrical.

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

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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.

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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 - 1.04 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 provide submittals electronically in PDF file format and physical product samples as required in specifications. It shall be the Contractor’s responsibility to ensure that the summary sheet is included in the submittal package. Incomplete submittal packages (i.e., the lack of a summary sheet or lack an appropriate product sample) 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) of receipt of the returned, approved submittal. 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.

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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 fees, including, but not limited to, connection fees, installation fees, meters, monthly service fees 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 by City Council.

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.

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 Parks Inspector, portions of work may be inspected by the other city departments. Notify the Parks

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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 1.19 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 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:

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 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:

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. Within five workings days of receipt of notification, the Parks Construction Inspector will confirm substantial completion. The Parks Construction Inspector will schedule the punch list walk (pre-final review) within five working

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days after the project has been determined as substantially complete. A formal punch list will be developed at the punch list walk. The Parks Construction Inspector will provide a copy of the formal punch list to the Contractor within five working days of punch list walk. Performance of the punch list walk does 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. Concurrent to the pre-final review, 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 Notice of Completion by the City Council.

B. Active maintenance is required throughout the entire establishment period. Active maintenance is defined as:

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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 Notice of Completion (NOC) for city-built parks and for streetscapes 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.

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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 storage device containing PDF scanned images (in color) of the verified/initialed as-built drawings.
5. For City of Roseville CIP projects, SWPPP 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 warranties 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.

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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

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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.

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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. Cost associated with the major changes will be paid for using the unit cost listed in the Additions or Deletions Sheet of the Proposal
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

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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 BMP's

A. Construction BMP's shall be installed per the Erosion / Sediment Control Plan and project SWPPP, and in accordance with the CASQA California Stormwater BMP Handbook. Use of alternative BMP's will be reviewed and accepted at the discretion of the City's QSD.

3.05 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.

3.06 Winter Construction Suspension

A. Contractor shall include a winter construction suspension as part of the construction schedule. The counting of working days will be suspended during the winter suspension period. It is at the City's sole and complete discretion to determine the start and end dates of the winter construction suspension. The City will notify the Contractor 10 working days before the start of the winter construction suspension. The City will notify the Contractor 10 working days before the end of the winter construction suspension. The Contractor shall begin work within 15 calendar days after receiving the notice of the end of the winter construction suspension.
B. Contractor shall include an allowance of *($15,000)* for the winter construction suspension. Costs associated with preparing the site for the winter construction suspension and costs associated with corrective actions required during the winter construction suspension will be paid for using the allowance on a Time & Materials Basis according to the allowable mark-ups in the project's General Conditions, or per an approved lump sum or unit price quote. Costs to implement and maintain the BMPs per the Erosion and Sediment Control Plan are excluded from the winter suspension allowance and shall be included in the lump sum base bid.
C. Prior to the winter construction suspension, stabilize all exposed soils at the direction of the City's QSD/QSP. In addition, all adjacent drainage inlets shall be protected and perimeter control shall be installed and in good repair.
D. Traffic on the construction site shall be kept to minimum. All traffic entering or exiting the site must use the stabilized construction entrance.

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E. Where there are areas of concentrated runoff flows, Contractor shall protect the soil from erosion.
F. Per the Construction General Permit Requirements, inspections by the City's QSD/QSP will continue into and through the winter suspension period. Inspections will occur before, during, and after each qualifying storm event (0.5" or more precipitation) and at least once per week. Contractor shall start all inspection corrective actions within 72 hours of observation, and complete as soon as possible.
G. Should rain be forecast at 50% or better by NOAA, the City's QSD/QSP will prepare a Rain Event Action Plan (REAP) and email such document to the Contractor. Contractor shall complete all corrective actions within the REAP prior to the start of precipitation.
H. The City's QSD/QSP will be sampling all discharge to ensure compliance with runoff standards for pH and turbidity. If the water sampling indicates compliance issues, Contractor shall make repairs or adjustments to BMPs immediately, and respond to any such requests within 24 hours.

END OF SECTION

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SECTION 03 30 00
SITE CONCRETE

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 and the City of Roseville Parks Construction Standards, latest editions, shall be in addition to the standards provided herein.

1.02 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 as specified herein.

1.03 References

A. Caltrans Standard Specifications, latest edition.

B. California Building Code (CBC) and California Administrative Code (Title 24), latest editions.

1.04 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 straightedge ten feet (10") long, shall be corrected to the satisfaction of the Inspector. Remove all areas where standing water occurs, including any surface irregularities.

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1.05 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.

1.06 Record Drawings

A. The Contractor shall keep an accurate record of the as-built conditions of the site concrete. 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 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.

2.02 Fiberglass Reinforcement

A. Fibers for concrete shall be Fibermesh 150, as manufactured by Propex Operating Company; or accepted equal. Fibers shall contain 100 percent virgin polypropylene multifilament fibers, e3 patented technology, containing no reprocessed olefin materials. The fibers shall conform to ASTM C1116 Type III and manufactured specifically for the secondary reinforcement of concrete.

2.03 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.

2.04 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.

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PART 3 - EXECUTION

3.01 Poured-In-Place Concrete Forms

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.

3.02 Fiberglass Reinforcement

A. Install per manufacturer's instructions. Apply at the batch plant prior to delivery. Thoroughly mix fiber material to avoid "clumping".

3.03 Expansion Joints

A. Expansion joints shall be placed where vertical elements meet horizontal paving unless otherwise noted on the Plans. This shall include vertical expansion joints on play area curb walls, buildings, shade structures, walls and/or planters. 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.

3.04 Control Joints for Concrete Sidewalks

A. Control joints shall be per detail PK-32 with deep, straight and finished with rounded edges. Control joints shall be placed (on-center) a distance equal to the width of the concrete walkway, unless otherwise shown on the Plans. For

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example a ten-foot wide walkway shall have control joint placed ten feet on center.

3.05 Placement of Concrete

A. Do not pour concrete in weather below 40 degrees F. or when temperatures are predicted to fall below freezing within 24 hours, except with prior authorization.
B. Concrete shall be transit mixed according to ASTM C-94. Limit the quantity of water to the required strength. Concrete shall be of a consistency that it flows slowly into the forms.
C. Mixing of concrete shall be continuous commencing from the time water is added to the mix until such time that the concrete is poured. All concrete shall be placed within an hour of the time when water is first added.
D. Concrete shall be deposited up to the finished height of the forms and up to the adjacent joint. No partial pours will be allowed. Excess material shall be dumped on-site and later removed by the Contractor.
E. Thoroughly compact the concrete manually spading and tamping concrete into all corners of the forms and by utilizing a high-speed mechanical vibrator. Retain a standby vibrator on-site during the course of concrete work. When utilizing the vibrator, take precautions to avoid impact on the forms.
F. After obtaining uniform compaction, screen tamper all flatwork surfaces, screed and bull float to ensure that large aggregates are pushed below the surface. When it is practical to work on the surface, wood float, steel trowel paving to a uniform surface.
G. Concrete elements shall not exceed the following tolerances:
    1. Linear: 1/8”
    2. Slab deviation: 1/8” in 10‟

3.06 Finishes

A. Finishes shall be as shown on the Plans and shall be consistent in quality throughout the project. Medium broom finished concrete shall have clean, deep control joints spaced appropriately. No visible cracks or discoloration will be accepted. Finishes on vertical surfaces shall be consistent throughout. Vertical expansion joints are spaced as identified on the plans and are smooth with the finish surfaces. All edges for flatwork and vertical surfaces shall be eased at a consistent radius.
B. Upon completion of float finishing, provide the final finish as follows:
    1. Medium Broom Finish: shall be accomplished by pulling a stiff bristle broom across a floated surface. The direction of the broom shall be perpendicular to the path of travel, unless otherwise shown on the Plans.

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3.07 Removal of Forms

A. Forms shall remain in place as follows:
   1. For mass concrete work: 5 days.
   2. For other flatwork and other concrete work: 3 days.

B. Remove all bolts, nails, ties, wires, etc. a minimum of one inch (1”) below the surface of the concrete. Remove imprints, irregularities or other such defects and patch as directed by the Inspector.

3.08 Curing and Protection

A. Allow adequate time for the concrete to cure. In temperatures above 75 degrees F., ensure that the concrete surface remains wet for a period of seven (7) days minimum.

B. Protect all concrete from damage during the curing period. This shall include damage from sun, rain, flowing water, frost, mechanical injury, tire tracks, footprints, oil stains, etc. Should such damage occur, Contractor shall take immediate action to repair damage to the satisfaction of the City.

3.09 Clean-Up

A. During the course of this work, the area shall be kept clear and free of debris as realistically possible. Upon completion of concrete work, completely remove from the site all used forms, hardware, spillage, rejected work and other materials.

B. Remove from site furnishing posts all concrete “slobber”. Re-touch posts as necessary for a clean finish.

END OF SECTION

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SECTION 05 12 00
STRUCTURAL AND MISCELLANEOUS STEEL (GENERAL)

PART 1 - GENERAL

1.01 Conditions

A. The general provisions of the Contract, including General and Special Provisions apply to the work specified in this Section.

1.02 Scope of Work

A. Furnish all labor, materials, and equipment as required to fabricate and install all structural and miscellaneous steel work as indicated on Drawings and specified herein.
B. Although such work or materials are not specifically indicated, furnish and install all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a secure and complete installation.
C. Provide shop drawings for all work.
D. Completely coordinate with work of all other trades.

1.03 References (Latest Edition)

A. AISC: Standard Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings by the American Institute of Steel Construction (AISC).
B. AISC – Code of Standard Practice – Manual of Steel Construction – Allowable Stress Design (ASD).
C. AISC – Code of Standard Practice of Steel Buildings and Bridges.
D. ASTM A36 – Structural Steel.
E. ASTM A-53: Black and Hot Dipped Zinc – Coated Welded and Seamless Steel Pipe.
F. ASTM A-120: Black and Hot Dipped Zinc – Coated Welded and Seamless Steel Pipe.
G. ASTM A307 – Carbon Steel Externally Threaded Standard Fasteners.
H. ASTM A500 – Cold Formed Welded and Seamless Carbon Steel Structural Tubing in Round and Shapes.
I. ASTM A501 – Hot Formed Welded and Seamless Carbon Steel Structural Tubing.
J. AWS A2.4 – Symbols of Welding, Brazing, and Nondestructive Examination.
K. AWS D1.1 – Structural Welding Code.
L. SSPC (Steel Structures Painting Council) – Painting Manual.
M. California Building Code (CBC), latest edition.

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1.04 Regulatory Requirements

A. Safety Requirements: Work shall comply with all Federal, State and municipal regulations regarding safety, including the requirements of the following:
   1. William-Steiger Occupational Safety & Health Act of 1970
   2. State of California, California Administrative Code, Title 8 Industrial Relations, Chapter 4, Subchapter 4, “Construction Safety Orders” and other State and local agencies having jurisdiction.

B. California Building Code (CBC), latest edition.

1.05 Submittals

A. Shop Drawings: General
   1. Before any structural steel is fabricated or delivered to jobsite, submit Shop Drawings in accordance with the General Conditions of these specifications.
   2. Shop Drawings shall clearly show all pieces with all pertinent dimensions, data, layout, sizes and weights, connections, and all controlled dimensions and elevations. Drawings shall clearly distinguish between shop and field bolts and welds. Errors in dimensions shown on shop drawings shall be responsibility of Contractor.
   3. Show details, including cuts, copes, connections, holes, threaded fasteners, and welds in accordance with AWS.
   4. Indicate which structural units, members or brackets require field cuts or welds due to construction techniques.
   5. Indicated metal fabricator’s method for radius form bents of pipe or tubing.
   6. All shop and field welds shall be indicated by AWS Welding Symbols.
      a) Indicate size, length and type of each weld.
      b) Special Inspection required by CBC and Building Department.

B. Welding:
   1. Certification of Welder’s Qualifications.
   2. Welding Procedure: Submit descriptive data to illustrate welding procedures to be performed.

1.06 Quality Assurance

A. Fabricated structural steel members in accordance with AISC Code of Standard Practice.
B. Perform Work in accordance with AISC Section 10.
C. Perform Work in accordance California Building Code (CBC), latest edition.
D. All welding procedures, welders, welding operation, and tackers shall be qualified in accordance with AWS Standard Code D1.1.
E. Maintain one copy of each document on site.
F. Fabricator: Company specializing in performing the work of this section.
G. Erector: Company specializing in performing the work of this section.

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H. All construction shall conform to applicable building codes, project specifications and applicable regulations. Where the provisions of applicable codes, material manufacturer's requirements, and project specifications conflict, the more stringent provision shall govern.

I. Certification: Furnish, before fabrication, a mill certified report (in duplicate) of the tests for ach heat of steel or iron from which the material is to be fabricated, containing the results of chemical and physical tests required by the ASTM specifications for the materials.

J. Qualify welding processes and welding operators in accordance with AWS "Standard Qualifications Procedure". Provide certification that welders to be employed in work have satisfactorily passed AWS qualification test within the previous twelve (12) months. If recertification of welders is required, retesting will be Contractor's responsibility.

K. Work shall comply with the Drawings, Specifications and accepted Shop Drawings in every aspect. All errors of fabrication and connections, defective materials, fasteners, and workmanship shall be replaced at the expense of the Contractor.

1.07 Delivery, Storage and Handling

A. Deliver anchor bolts and anchorage devices which are to be embedded in cast-in-place concrete or masonry in ample time so as not to delay that Work.

B. Store materials to permit easy access for inspection and identifications. Keep steel members off the ground using pallets, platforms, or other supports. Protect steel members and packaged materials from corrosion and deterioration. Remove any damaged items from the site and replace at no cost to the Owner.

C. Use all means necessary to protect structural steel before, during and after installation.

1.08 Coordination

A. Coordinate and furnish all required anchorages, templates, and patterns, setting drawings, and installation directions for all built-in items. Supervise the proper location and the installation of all built-in items. Deliver all items required to be embedded in concrete, masonry or built into other material to their respective Contractor. Provide holes and connections for Work of others Contractors.

1.09 Field Measurements

A. Take field measurements prior to preparation of Shop Drawings and metal fabrication. Proper fit and attachments of all items is required; allow for trimming and fitting when taking field measurements before metal fabrication.

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1.10 Shop Assembly

A. Preassemble items in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.

PART 2 - PRODUCTS

2.01 General

A. Use materials of size and thickness indicated or, if not indicated, as required to produce strength and durability in finished product for use intended.
B. Metal surfaces used for fabrications of miscellaneous metal items which will be exposed to view shall be smooth and free of surface blemishes including pitting, seam marks, roller marks, rolled trade names and roughness.
C. All other materials not specifically described, but required for a complete and proper installation, shall be new, free from rust, best quality of their respective kind, and subject to the approval of the Project Inspector.

2.02 Steel Plates, Shapes and Bars

A. All miscellaneous steel shall be standard cold-rolled sections, new, free from rust, and conforming to ASTM A-36.

2.03 Steel Pipe

A. All steel pipe shall be black steel pipe, except where indicated to be galvanized, complying with provisions of:
   1. ASTM A-120, Schedule 40 for pipe less than four (4) inch diameter.
   2. ASTM A-53 ERW for pipe greater than four (4) inch diameter.

2.04 Steel Tubing

A. All steel tubing shall be cold-formed steel tubing conforming to ASTM A-500, Grade B.

2.05 Fasteners

A. General: Provide electro-zinc plated fasteners for exterior use or where built into exterior walls or slabs. Select fasteners for the type, grade and class specified.
B. Bolts and Nuts: Regular hexagon-head carbon steel type conforming to ASTM A-307, Grade A with electro-zinc plating.
C. Flat Washers: U.S.S. standard round carbon steel type conforming to FS FF-W-92 with electro-zinc plating.
D. Lock Washers: Helical spring carbon steel type conforming to FS FF-W-84 with electro-zinc plating.

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E. Anchor Bolts: Nonheaded “J” bolt type, unless otherwise indicated on Drawings, conforming to ASTM A-307, Grade A with electro-zinc plating.

2.06 Shop Paint

A. Primer shall be Red Oxide Primer, conforming to Federal Specification TT-P-31 for steel surfaces and Federal Specifications TT-P-64b for galvanized surfaces.

2.07 Grout

A. Pre-mixed, factory packaged, non-shrinking, non-metallic, non-staining, non-corrosive and non-gaseous group complying with CE CRD-C588. Provide grout specifically manufactured for exterior applications.

PART 3 - EXECUTION

3.01 General

A. Comply with AISC Code and Specifications and maintain Work in safe and stable conditions during erection. Provide temporary bracing and shoring as required; remove when final connections are in-place.
B. Execute all Work using skilled metal workers only. Do all welding as per AWS Specifications with certified welders.
C. When possible, fit and shop assemble all metal Work, ready for installation, with shop and field connections welded or attached with fasteners as indicated on Drawings.
D. Prior to all work of this Section, carefully inspect the installed work of all other trades and verify that all such work is complete to the point where fabrication and installation of the work of this section may properly commence.
E. Make all required measurements in the field to ensure proper and adequate fit of miscellaneous metal items.
F. It is the intent of the Drawings to indicate detail connections. Where connection detail is not shown, detail shall be patterned after a connection similar condition, or an AISC standard type.

3.02 Fabrication

A. General
    1. Use materials of size and thickness indicated on Drawings or on accepted Shop Drawings to produce strength and durability in finished product for use intended. Work to dimensions are indicated on drawings or on accepted Shop Drawings, using proven details of fabrication and support.
    2. All fabrication shall be in accordance with AISC Specifications for fabrication of structural steel, California Building Codes, and requirements of regulatory agencies.

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3. Do not field cut or alter structural metal units, members or brackets without accepted Shop Drawings.
4. Fabricate and pre-assemble work in shop to greatest extent possible.
5. Fabricate exposed work true to line, shape and level with accurate angles and radiuses. Ease exposed metal edges to a radius of approximately 1/32 inch.
6. Make cuts, bends, punching and drilling accurate, neat and properly located. Grind and file smooth all parts exposed to view; leave exposed surfaces free of fabrication marks. Mark and match-mark units requiring field assembly.
7. All welds shall be continuous, unless otherwise indicated, complying with AWS Specifications. Form exposed connections with tight, flush and smooth hairline joints. Grind exposed welds smooth and flush to match and blend with adjoining surfaces.
8. Cut, reinforce, drill and tap fabricated metal work as indicated on Drawings to receive finish hardware, fasteners and similar items.

B. Bolted Connections:
1. Punch or drill holes 1/16 inch larger than bolt size and spear-ream before inserting bolts.
2. Ream unfair holes, but only up to next larger bolt size. Where unfairness exceeds maximum, weld hole in base material solid and drill hole of proper size.
3. As erection progresses, bolt up work to take care of dead load, lateral forces, and erection stresses. Provide any additional bracing necessary to resist all possible forces during erection. Contractor is entirely responsible for the stability of the structural steel work until the job is complete.

C. Assembly with Standard Threaded Fasteners:
1. Beveled Washers: Provide under bolt heads or nuts resting on surfaces exceeding 5 percent slope with respect to head or nut.
2. Draw up tight, check threads with chisel, or provide approved lock washers or self-tightening nuts.

D. Welded Connections:
1. Perform welding using shielded metal arc, submerged arc, gas metal arc, or flux cored arc methods in accordance with appropriate sections of AWS D1.1 and CBC Chapter 27.
2. In addition to specific requirements of Drawings, details of welded joints shall comply with all requirements for joints which are accepted without qualification tests under the AWS Code. If sizes of fillet welds are not shown on Drawings, use AWS minimum weld size, but not less than thinnest part thickness minus 1/16 inch.

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3. Plan welding operations to eliminate stress build-up.
4. Field Welding:
    a) Perform field welding in accordance AWS D1.1.
    b) Where field welding is applied to existing flexural members involving application of significant amounts of heat to member, provide temporary shoring to prevent deflections.
    c) Provide Special Inspection per the CBC, latest edition.

E. Column Bases:
1. Finish in accordance with AISC. Lack of contact bearing with column shall not exceed 1/16 inch.

F. Bearing Plates:
1. Finish in accordance with AISC. Provide for attachment as shown on Drawings.
2. Cut, drill (tap where indicated or required), or punch holes perpendicular to metal surfaces. Do not flame cut holes or enlarge holes by burning. Drill holes in bearing plates.

3.03 Shop Painting

A. Shop paint all metal Work, except members or portions of members to be embedded in concrete or masonry, surfaces and edges to be field welded, stainless steel, and galvanized surfaces, unless otherwise indicated.

B. Clean all metal work to be primed and painted in accordance with Section 09 91 00 – Painting and Finishes.

C. Immediately after surface preparation brush or spray on primer in accordance with manufacturer's instruction at a rate to provide uniform dry film thickness of 20 mils for each coat. Use painting methods which will result in full coverage of joints, corners, edges and exposed surfaces.

D. Apply one (1) shop coat to fabricated metal items, except apply two () coats of primer to surfaces inaccessible after assembly or installation.

E. Give any painted built-in portions one (1) field coat of primer on all abraded areas after installation.

3.04 Galvanizing

A. All metal fabrications intended for exteriors use or for use in high moisture areas are to be hot-dip galvanized, unless otherwise noted.

B. Hot dip galvanizing or zinc coatings, applied on products fabricated from rolled, pressed and forged steel shapes, plates, bars and strips shall comply with ASTM Specification A123-73.

C. Hot dip galvanizing or zinc coatings on assembled steel products shall comply with ASTM Specifications A386.

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D. The weight of coatings shall be as designated in Table 1 for the class and thickness of material to be coated. Galvanized surfaces for which a shop coat of paint is specified shall be chemically treated to provide a bond for the paint.
E. Except for bolts and nuts, all galvanizing shall be done after fabrication.

3.05 Installation

A. General:
   1. Compliance: Erect and install all miscellaneous metal in strict accordance with the Drawings, the reviewed shop drawings, and the referenced standards, aligning straight, plumb, and level within a tolerance of one in 200. Accurately assemble structural steel to lines and elevations indicated, within specified AISC tolerances.
   2. Splice metal work only where indicated and approved on shop Drawings.
   3. Install anchorage devices and fasteners where required for securing miscellaneous metal fabrications to in-place construction; including anchorage devices and fasteners that require to be cast into concrete or masonry. Provide temporary bracing or anchors in formwork for items cast into concrete or similar construction.
   4. Perform cutting, drilling, and fitting required for installation of miscellaneous metal fabrications. Set Work accurately in location, alignment and elevation. Install items plumb, level, true and free of rack; measured from established lines and levels.
   5. Fit exposed connections accurately together to form tight hairline joints. Weld connections which are not to be left as exposed joints, but cannot be shop welded due to shipping size limitations. Grind exposed joints smooth and touch-up shop paint coat.
   6. Do not weld, cut or abrade the surfaces of exterior units which have been hot-dip galvanized after fabrication, and are intended for bolted or screwed field connections.
   7. All field welds shall conform to AWS Specifications. Grind all exposed welds smooth and flush to match and blend with adjoining surfaces.
   8. Clean and touch-up all field welds and scratches with shop paint as specified.

3.06 Finishes

A. Finish all fabricated metal Work as per Section 09 91 00: Painting and Finishes.

END OF SECTION

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SECTION 09 91 00
PAINTING AND FINISHES (GENERAL)

PART 1 - GENERAL

1.01 Conditions

A. The general provisions of the Contract, including General Conditions and Special Provisions apply to the work specified in this Section.

1.02 Description

A. Work includes, but is not limited to the following:
   1. Provide all materials, tools, equipment, appliances, labor and supervision required to paint and finish all surfaces and/or components as specified herein and as indicated on the Drawings, including all miscellaneous items and labor required to complete the Work of this Section.
   2. Surface preparation, priming and painting of all metal surfaces as indicated on Drawings or as follows:
      a) Miscellaneous surfaces.
   3. All surfaces that are left unfinished by the requirements of other sections shall be painted or finished as part of this contract.

B. Related Work described elsewhere.
   1. Section 05 12 00: Structural and Miscellaneous Steel

C. Definition: The term “paint”, as used herein, shall mean all coating systems materials, including primers, emulsions, enamels, stains, sealers and fillers, and other applied materials whether used as prime intermediate or finish coats.

1.03 Work Not Included

A. Pre-Finished Items: Unless otherwise specified or indicated on the Drawings, do not include the painting of items that are specified to receive manufacturer’s factory finish, i.e. such items as site furnishings, irrigation equipment, electrical equipment, etc. See applicable Sections.

B. Finished Metal Surfaces: Unless otherwise specified, all metal surfaces or anodized aluminum, stainless steel, chromium plate, copper, bronze or similar finished materials do not require painting.

1.04 Submittals

A. Provide in accordance with the General Conditions prior to ordering material, a complete, detailed list of materials proposed for use on work. Include affidavit from manufacturer stating that proposed materials are the best of their

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respective kinds and suitable for intended purpose. Submit in ample time to avoid delays in work if the list, or portions thereof, are rejected.

B. Painter shall prepare and submit color samples to match color chips in 12- inch square size and must receive approval from Project Inspector before applying final paint coats to finish surfaces. Approved samples shall be retained at the Project Inspector's office for record.

1.05 Paint Coordination

A. Provide prime coats which are compatible with finish paints used. Review other Sections of these specifications in which prime paints are to be provided to ensure compatibility of total painting system for various surfaces. Upon request from other trades, furnish information and specifications for finish materials proposed for use, to ensure compatible prime coats are used. Provide barrier coats over incompatible primers or remove and reprime as required. Notify Project Inspector in writing of any anticipated problems using specified painting systems with surfaces primed by others.

1.06 Job Conditions

A. Applicator shall examine areas, surfaces and conditions under which painting Work is to be applied and notify the Project Inspector in writing of conditions detrimental to proper and timely completion of Work. Do not proceed with Work until unsatisfactory conditions have been corrected in a manner acceptable to Project Inspector and Applicator, or Applicator shall assume responsibility for and rectify any unsatisfactory finish resulting.

B. Starting of painting Work shall be construed as Applicator's acceptance of surfaces and conditions.

1.07 Weather Conditions

A. Apply water base paints only when temperature of surfaces to be painted and surrounding air temperature are between fifty (50) degrees F (10 degrees C) and ninety (90) degrees F (32 degrees C), unless otherwise permitted by paint manufacturer's printed specifications.

B. Apply solvent-thinned paints only when temperature of surfaces to be painted and surrounding air temperatures are between forty-five (45) degrees F (7 degrees C) and ninety-five (95) degrees F (35 degrees C), unless otherwise permitted by paint manufacturer's printed specifications.

C. Do not apply paint in rain, fog or mist; or when relative humidity exceeds eighty-five (85) percent; or to damp or wet surfaces.

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1.08 Delivery and Storage

A. Deliver materials to job site in original, new and unopened packages or containers bearing manufacturer's name and label, and the following information:
   1. Manufacturer's Name
   2. Manufacturer's stock number and date of manufacture
   3. Special color mix: name and number
   4. Contents by volume for major pigment and vehicle constituents
   5. Thinning instructions
   6. Application instructions

B. Store materials and equipment as approved by applicable codes and enforce good housekeeping practices. Any soiled or used rags waste, etc., shall be removed from the site every night and every precaution shall be taken to avoid the danger of fire. No paint materials shall be washed or emptied on the site or into any sewer drains, storm drains or street gutters.

1.09 Protections

A. Protection Work of other trades, whether to be painted or not, against damage by painting and finishing Work. Provide suitable covering or other methods of protection during progress of this Work. Correct any damage by cleaning, repairing or replacing, and repainting, as acceptable to the Project Inspector.

B. Provide "Wet Paint" signs as required to protect newly painted surfaces. Remove all protective materials upon completion of the Work and touch-up and restore all damaged or defaced surfaces, including the removal of paint spots from other surfaces.

1.10 Guarantee

A. Adhesion: All materials applied shall be guaranteed for a period of two (2) years against failure due to surface conditions, materials, or application. There shall be no evidence of fingerprints blisters, running, peeling, scaling, chalking, streaks or stains.

PART 2 - PRODUCTS

2.01 Color Schedule

A. Project Inspector shall furnish to the Contractor a color schedule of paints to be used based on one of the approved manufacturer's color charts or requirements for specially mixed colors. Use of one of the other approved manufacturer's requires the Contractor to match the color schedule provided by the Project Inspector.

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B. Manufacturers names used to designate colors of color schedule is not intended to imply that products names are required to the exclusion of equivalent products of other manufacturers.
C. All colors and manufacturers shall be approved and authorized by the Project Inspector before commencing work.

2.02 Materials Quality

A. Provide best quality grade of various types of paints as regularly manufactured by acceptable paint materials manufacturer. Materials not displaying manufacturer's identification as a standard, best-grade product will not be acceptable. Acceptable paint manufacturers include:
   1. Kelley-Moore
   2. Benjamin Moore Company
   3. The Glidden Company
   4. Pratt and Lambert, Inc.
   5. Dunn and Edwards
   6. Sherwin-Williams
   7. W.P. Fuller Company
   8. Tiger Drylac
B. Provide primer and undercoat paint produced by the same manufacturer as finish paint. Use only thinners approved by paint manufacturer, and use only within recommended limits.
C. Epoxy paints and wood stains for use in standard comfort stations shall be as specified on plans.

2.03 Metal Primer

A. Primer for metal surfaces shall be Red Oxide Primer, conforming to Federal Specification TT-P-31 for metal surfaces and Federal Specification TT-P-64b for galvanized surfaces.

PART 3 - EXECUTION

3.01 Surface Preparation

A. General: Perform preparation and cleaning procedures in accordance with paint manufacturer's instructions, and as herein specified, for each particular surface condition.
B. Paint no items fitted with finish hardware or other similar items until hardware has been removed or provided with surface-applied protection prior to surface preparation and painting operations. Install hardware or remove surface-applied protection after paint has dried.

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C. Metal Surfaces: Clean all metal surfaces, which are not galvanized or shop-painted, of scale, dirt, rust and other deleterious materials before priming. Clean metal in accordance with Steel Structures Painting Council (SSPC) Specifications.
   1. SP-2: Hand Tool Cleaning
   2. SP-3: Power Tool Cleaning
   3. SP-7: Brush-off Blasting Cleaning

   Remove oil, grease, and similar contaminants in accordance with:
   1. SP-1: Solvent Cleaning

D. Galvanized Surface: Clean all galvanized surfaces of oil and other surface contaminants with a crystalline zinc phosphate pretreatment (phosphoric acid etch). Remove pretreatment solution by thoroughly washing with clean water and wipe dry.

3.02 Materials Preparation

A. Mix and prepare painting materials in accordance with manufacturer's specifications.
B. Stir materials before application to produce a mixture of uniform density, and stir as required during application. Do not stir surface film into materials. Remove film and if necessary, strain materials before using.

3.03 Application of Primer Coat

A. Apply primer coast to all surfaces which are required to be painted or finished, and which have not been prime coated or shop-painted by others. For metal surfaces, tough up shop-painted coats as required.
B. Immediately after surface preparation brush or spray on primer in accordance with manufacturer's instructions at a rate to provide uniform dry film thickness of two (2.0) mils for each coat. Use painting methods which shall result in full coverage of joints, corners, edges and exposed surfaces.
C. All primer coats shall be free from runs, sags, and other defects. All coats shall be thoroughly dry before applying succeeding coats.
D. Apply one (1) coat of metal primer for metal surfaces, as specified and/or as recommended by manufacturer's instructions.

3.04 Application of Paint

A. Apply paint in accordance with manufacturer's instructions. Use applicators and techniques best suited for each surface and type of materials being painted.
B. All painting Work shall be done by skilled workman in a professional manner. All coats shall be evenly spread and shall be free from run, sags and other defects. All coats shall be thoroughly dry before applying succeeding coats.

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C. All individual coats of paint shall be inspected and approved by the Project Inspector before application of the succeeding specified coat; otherwise no credit for the coat applied shall be given, and the Applicator shall automatically assume responsibility to recoat the Work. The applicator shall provide the Project Inspector a report of each coat applied when completed for inspection and approval to comply with the above.
D. Where coverage is incomplete, not uniform, or not to the required dry film thickness, provide an additional coat at no extra cost to the Developer.
E. Apply finish coats of paint to all exposed surfaces as follows:
    1. For primed metal surfaces, apply two (2) coats of 100% acrylic latex base paint, per manufacturer's recommendations. Apply first coat of paint within 72 hours of primer application. If first coat of finish paint cannot be applied within the specified application time, the contractor shall re-clean and re-primer all exposed metal surfaces prior to start of metal paining operations.
F. Give special attention to ensure that surfaces, including edges, corners, crevices, welds, and exposed fasteners, receive a dry film thickness equivalent to that of flat surfaces.
G. Apply first-coat material to surfaces that have been cleaned, pretreated or otherwise prepared for painting as soon as practical after preparation and before subsequent surface deterioration's.
H. Allow sufficient time between successive coatings to permit proper drying. Do not recoat until pain has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure and application of another coat of paint does not cause lifting or loss of adhesion of the undercoat.
I. Apply all coating without reduction, except as specifically required by label directions, or required by this Section.
J. Sand carefully between all coats on smooth surfaces for good adhesion of subsequent coats.
K. Paint all exposed surfaces and anything inaccessible after installation prior to installation, if required to be painted.

3.05 Application of Epoxy Paint

A. Use epoxy paint for floor and wall in restrooms up to ADA height.

END OF SECTION

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SECTION 12 93 00
SITE FURNISHINGS

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 all site furniture, including play equipment and play surfacing, as shown on the Plans and as specified herein.

1.03 References

A. Nothing in the Plans or Specifications is to be construed to permit work not conforming to regulating codes and standards. The Contractor shall furnish without extra charge any material and labor, when required, by the compliance with these rules and regulations, even though the work was not mentioned in these particular Specifications or shown on the Plans.

B. The product manufacturer shall supply complete Specifications for the installation of all site furnishings, including play equipment and play surfacing.

1.04 Submittals

A. Submittals for specified items are required. 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”. For the following items, also provide:

1. Leaning Rails
2. Shade Structure
3. Drinking Fountain
4. Trash Receptacle
5. Guard Rail Padding
6. Windscreen
7. Pickle Ball Paddle Rack
8. Court Identification Sign

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9. Trellis System

All items with “color as selected by City” shall include color samples.

B. On the date of the Notice to Proceed, the Contractor shall immediately place the order to purchase all site furnishings and as outlined herein. **Proof of all orders shall be submitted to the Project Manager within ten (10) working days of the Notice to Proceed.**

1.05 Record Drawings

A. The Contractor shall keep an accurate record of the as-built conditions of the miscellaneous site amenities. 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 Materials

A. Drinking Fountain shall be MDF #10145 SM (bottle filler, dual bowl and accessible) and stainless steel surface carrier as distributed by Husbands and Associates (800) 821-9838 and as manufactured by Most Dependable Fountains or accepted equal. Color to be stainless powder coated black or as approved. Include recessed hose bib with locking cover. Install with a sand strainer when sand amenities are included in the park design.

B. Park Identification Sign shall be fabricated by Quick Crete Products Corp., Norco, CA, (916) 447-8644, or by Outdoor Creations, Inc., Anderson, CA, (530) 365-6106, or accepted equal.

C. Line Paint (for pickle ball courts): Hawker - Laykold; Koch Materials - Decocolor; Extol - Color; L&M - Nova acrylic; California Products Corp - Plexicolor Laykold; or accepted equal.

D. Trash Receptacle shall be 32 gallon receptacle with liner, dome top (model # TG3D33S) as fabricated by Wabash Valley, (260) 352-2102, or accepted equal.

E. Pickleball Post shall be as shown on the Plans and as specified herein. The *Pickleball Post* PPR-10 shall be as distributed by *Jeanette Lewis 925-667-6862* and as manufactured by *Jaypro Sports 800-243-0533* or accepted equal. Color as selected by the City.

F. Pickleball Net shall be as shown on the Plans and as specified herein. The *Pickleball Net PT-21N* shall be as distributed by *Jeanette Lewis 925-667-6862* and as manufactured by *Jaypro Sports 800-243-0533* or accepted equal. Color as selected by the City.

G. Pickleball Court Surfacing shall be as shown on the Plans and as specified herein. The *Plexipave Court Surfacing* shall be as distributed by and as

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manufactured by *California Sports Surfaces 978-623-9980* or accepted equal. Color as selected by the City (refer to detail for color selection).

H. Top Rail Padding shall be as shown on the Plans and as specified herein. The BGRPSG *Basezone Round Guard Rail Padding* shall be distributed by Sportsfield Specialties, *Alex Fletcher 408-728-0482* and as manufactured by *Sportsfield Specialties* or accepted equal. Color to be selected by the City.

I. Chain link fence windscreen shall be as shown on the Plans and as specified in. Windscreen shall be ten-ari pro custom height as fabricated by putterman athletics, (800-621-0146 and as manufactured by putterman athletics or accepted equal. Color to be green and selected by the City.

J. Pickle ball paddle rack shall be as shown on the Plans and specified herein. Paddle rack shall be Boomer HS Paddle Rack as fabricated by Boomer Pickleball (800) 970-0308 or accepted equal.

K. Court Identification Sign shall be as shown on the plans and as specified herein. The 5.5'x3' Custom Sign shall be distributed by Christopher Kershaw 916-443-3761 and as manufactured by Capital Sheet Metal or approved equal.

L. Penn Leaning Rail shall be as shown on the plans and specified herein. The PNL8 Penn Leaning Rails shall be distributed and manufactured by Keystone Ridge 724-284-1213 or approved equal. Color and finish to be selected by the City.

M. Trellis System shall be as shown on the Plans and as specified herein. Trellis System shall be Omega II – Eco System with 8-foot tall panels as fabricated by Omega II Fence Systems. Trellis system shall be distributed by MJB Corporation, Nicole Meenan, (530) 272-8005 or accepted equal. Color to be selected by the City.

N. Cantilever Shade Structure shall be as shown on the Plans and as specified herein. Shade structure shall be Model MC10X0 Cantilever Monoslope distributed by Park Planet, Gary Kimbrough, (530) 244-6116 and manufactured by Icon Shelter Systems Inc. or accepted equal. Color to be selected by the City.

PART 3 - EXECUTION

3.01 Installation

A. Contractor to provide experienced workers or subcontractors to install all site furnishings, including the play equipment and play surfacing described in these Specifications. The workers or subcontractor must demonstrate that at least five (5) similar play structures and five (5) play surface applications similar to that specified for this project have been installed in the last three (3) years.

B. All site furnishing shall be installed per manufacturer's instructions.

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C. Heights of tables and benches shall be as follows, unless otherwise required by ADA; California Title 24 or other code requirements:

Description	Height Above Finish Grade
Table Surface Height	34” Maximum
Knee Space Height	27” Minimum Clear Space
Knee Space Depth	17” Minimum from edge of table to nearest obstruction under table top
Width of Knee Space	30” Minimum clear width beneath table
Bench Surface Height	16” Minimum, 18” Maximum

D. All footings shall be Class A concrete with 3/4” maximum size aggregate, unless otherwise noted. Footings shall be in accordance with Caltrans Standard Specifications, Section 90. Install all footings below finish surface. In paved areas, install paved surface over footing for a clean finished surface as shown on the Plans.

E. Carefully install all furnishings and equipment without disturbance to adjacent finishes. Contractor shall be responsible for the damage and subsequent repairs of damaged finished product.

3.02 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.

PART 4 - WARRANTY

4.01 General

A. Contractor shall warranty all site amenities included under this Section.

B. Contractor shall also provide a written warranty 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.

C. Submit written warranty on company letterhead addressed to the City when providing As-built drawings.

D. Contractor shall submit to the City, upon completion of work, a Certificate of Compliance by a third party certified playground inspector for the installation of the play structure and safety surfacing. Certification shall include testing for compliance of ASTM 1292 (Impact Attenuation of Surfacing Systems under and around Play Equipment). All tests, including re-tests, shall be the responsibility of the Contractor. Submit all test results to the City.

E. Submit maintenance manual for poured-in-place resilient surfacing.

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F. Contractor shall submit to the City, upon completion of work, a Certificate of Compliance from the manufacturer of the play structure for the installation of the play structure.
G. Contractor shall submit to the City, upon completion of work, critical fall criterion used to certify all play surfacing material.
H. Attach cut sheets of installed items to the warranty.

END OF SECTION

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SECTION 26 00 00
SITE ELECTRICAL

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 Special 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 and requirements outlined by the City of Roseville Electric Department shall be in addition to the standards provided herein.

D. The standards set forth in the latest edition of the California Electrical Code (CEC), incorporating the latest edition of the NEC with City of Roseville amendments shall be in addition to the standards provided herein.

1.02 Description

A. Furnish all labor, materials and equipment for the complete installation of site electrical as shown in the Plans and as specified herein.

B. Submittals shall be required for requested substitutions or plan deviations ONLY. The Contractor shall install all specified electrical fixtures, poles and equipment, unless otherwise accepted and determined as an equivalent.

1.03 References

A. Conform to requirements outlined in the latest editions of the California Electrical Code (CEC), California Administrative Code (Title 24), California Building Code (CBC), California Administrative Code (Title 22) and other applicable codes.

B. Conform to requirements outlined in the latest edition of the Roseville Electric Specifications for Commercial Construction.

1.04 Record Drawings

A. Record drawings are required as a part of this work. At all times, the Contractor shall maintain accurate information of the work in progress. Deviation in layout of conduit or other materials shall be recorded to the satisfaction of the Inspector. Upon completion of the project, as-builts shall be submitted to the City on reproducible plan sheets and shall depict all changes in a neat and legible manner.

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PART 2 - PRODUCTS

2.01 Service Panels

A. Service panels shall meet the Roseville Electric approved sections of the EUSERC requirements. The list of acceptable panels can be found at https://the.euserc.org/s/Roseville-City-of-Acceptability-Pages.pdf

B. Service panel shall be:
   1. Built to UL508A standards
   2. Metered
   3. Single phase or three phase application
   4. Rated for 120 to 480 volts
   5. Color: Hunter Green

2.02 Conduit and Fittings

A. For primaries (12,000 volts), conform to Roseville Electric's Specifications for Commercial Construction, latest edition.

B. All other conduit and fittings shall conform to the California Electric Code, latest edition.

2.03 Wires and Cables

A. Conform to the California Electric Code, latest edition.

B. All wires shall be copper only, 90-degree-C THHN/THWN insulation.

2.04 Wire Connections and Devices

A. Conform to the California Electric Code, latest edition.

B. Splices and joints for #10 AWG or smaller wiring shall be twisted together electrically and mechanically strong and insulated with approved type insulated electrical spring connectors, Scotchlok or Ideal. 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. Uninsulated lugs and wire ends shall be insulated with layers of plastic tape equal to insulation of wire and with all irregular surfaces properly padded with "Scotchfil" putty prior to application of tape. Tape shall be equal to Scotch #33, General Electric #AW-1, or approved equal. Feeder splicing is not permitted.

C. Receptacles: 15 & 20 Amp 125 Volt receptacles shall be "Specification" grade, duplex, UL Listed, rated Weatherproof where installed outdoors or in damp or wet locations. Where only one receptacle is connected to a 20 ampere circuit, a 20 ampere receptacle shall be used. Receptacles to be Hubbell 5262 series, 5362 series, or equal. Provide an equipment grounding jumper (pigtail) connecting the grounding terminal of the receptacle to the grounded box.

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2.05 Outlet Boxes

A. Cast Metal boxes shall be cadmium plated, cast iron alloy by Crouse-Hinds Form 8 condulets, Appleton Form 35 Unilets or accepted equal.
B. Cast Metal Outlet boxes shall be four inch (4") round, galvanized cast iron alloy with threaded hubs and mounting lugs as required. Boxes shall be furnished with cast cover plates of the same material as the box and neoprene gaskets by Crouse-Hinds VXF series, Appleton JBX series or accepted equal.

2.06 Pull and Junction Boxes

A. Per City of Roseville Electric Department's Specifications for Commercial Construction, latest edition.

2.07 Parts Identification

A. Consistent with the City of Roseville Electric Department's Specifications for Commercial Construction, latest edition.

2.08 Electrical Support Equipment

A. Concrete Fasteners shall be Philips "Red-Head" or accepted equal. Powder driven concrete pin fasteners, low velocity type shall be Remington, Ramset or accepted equal.
B. Conduit Straps shall be hot dipped galvanized, cast malleable iron, one hole type strap with cast clamp-backs and spacers (as required) by O-Z/Gedney No. 15-50G strap and #14G spacer, Efcor No. 231 strap and No.131 spacer or accepted equal.
C. Concrete Inserts shall be pressed galvanized steel, spot insert with oval slot capable of accepting support nuts of ¼ inch to ½ inch diameter thread by Unistrut No. M2506 series, Globestrut CSI series or accepted equal.
D. Construction Channel shall be 1-1/2 inch by 1-1/2 inch 12 gauge galvanized steel channel with 17/32 inch diameter bolt holes, 1-1/2 inch on center, in the base of the channel by Kindorf 905 series, Unistrut P-1000-HS or accepted equal.
E. Cable Ties and Clamps shall be one piece, nylon, reusable type lashing tiesby Thomas and Betts Co "Ty-Raps", Panduit "Pan-Ty" or accepted equal.
F. General Fasteners shall be wood screws for fastening to work; machine screws for fastening to steel; toggle bolts for fastening to gypsum board or plaster walls; expansion anchors for attachments to pre-poured concrete.
G. GFI Outlet Cover shall be metal, lockable, and flush with the surface it is installed in. Cover must conform to the California Electric Code, latest edition.

2.09 Fixtures and Poles

A. Sports lights: Refer to Section 26 56 68 Sports Field Lighting

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B. Pathway/Security lights shall be:
   1. LED: Hadco: RL54 B B N N 1 A W N N N A 2 N N N N SP1
   2. Pod: die-cast aluminum housing with tool-less access
   3. Globe: clear prismatic injection molded U.V. stabilized acrylic
   4. Symmetric photometric distribution
   5. Rated 120 volts

C. Poles shall be:
   1. Whatley: TR34 16 DE BLK TXT 30-30 or accepted equal
   2. Fiberglass, direct burial
   3. Textured round, tapered
   4. 16’ mounting height
   5. Include –RC receptacle as shown on plans

D. Vandal resistant surface mounted fixture shall be:
   Luminaire LED: SWP610 NODIM 15W 40K 120 CLP BLK CAB (PC) or accepted equal. Provide integral photocell where shown on plans.
   1. Description: wall/ceiling mout, durable, polycarbonate housing supported by marine grade, die cast aluminum base plate.
   2. Bezel: one piece injection molded UV stabilized polycarbonate mechanically interlocked to lens. Minimum wall thickness 0.140”.
   3. Lens: one piece injection molded UV stabilized prismatic polycarbonate with minimum 0.140” wall thickness.
   4. UL Listing: Wet Location Listing.

2.10 Tracer Wire

A. Insulated solid copper wire, minimum #12 gauge.

PART 3 - EXECUTION

3.01 Installation

A. Install (luminaire and poles) in accordance to manufacturer’s instructions.
B. Ensure proper handling and installation of fixtures including hardware necessary for a complete installation. Fixtures (luminaire and poles) shall be clean, plumb and level.
C. All lamps shall be new and in operating condition. New lamps shall have less than 100 hours of operation on-site.
D. All splices in exterior fixtures or fixture outlet boxes shall be made watertight using specified epoxy resin splicing kits.
E. Operate the entire system, once complete, in the presence of the Inspector. Immediately correct any improper connections or other items.
F. Install concrete collars around light poles. Concrete collars shall be per the Parks Construction Standards, latest edition.

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G. Install tracer wire on top of conduit for all up-lighting and sports field lighting.

3.02 Clean Up

A. At all times, maintain a safe and clean work site, free of debris and rubbish.
B. All electrical parts shall be clean of conductive and deleterious materials.
C. All enclosures shall be free of dirt and debris.
D. Clean all finishes and touch up damaged areas prior to pre-final inspection.

3.03 Excavation & Backfill

A. Refer to Section 33 00 00 Utilities.

3.04 Equipment Pads

A. Concrete reinforced pads for mounting of equipment (i.e. switchboard, transformers, freestanding panels, etc.) shall be minimum 3000psi, 6" thick with #4 rebars at 12" on center each way. Rebars shall be centered in pad. Pad shall extend 2" beyond equipment and 1.5" above surrounding area. Backfill and compact to 95% maximum dry density at optimum moisture content in layers not to exceed 6" when compacted.

3.05 Grounding

A. Grounding and ground bonding of the electrical installation shall be in accordance with CEC Article 250, and any applicable codes. Ground fittings shall be 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 capacity sized in accordance with 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. Service ground conductor shall be connected to a "Ufer" encased ground and bonded to the metallic cold water pipe system and to the metallic natural gas line. 5/8” x 10 ft copper clad ground rods may be used in lieu of the Ufer ground where no footing is available.
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

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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.

3.06 Field Testing

A. Perform Insulation Resistance (IR) "Megger" Testing per NETA Standards. Submit test results. Provide testing for:
   1. All feeders 100 Amps and higher.
   2. Branch circuits 100 Amps and higher.

B. Each ground rod shall be tested. A ground rod which does not have a resistance to ground of 25 ohms or less shall be augmented by one additional ground rod at no less than 8 feet from each other.

END OF SECTION

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SECTION 26 56 68
SPORTS FIELD LIGHTING

PART 1 - PART I - GENERAL

1.01 Related Documents
Drawings and general provisions of the bid documents, including general and supplementary conditions apply to this section.

1.02 Description of Work
A. The Sports Lighting section includes:

1. Galvanized steel pole and luminaire mounting crossarms
2. LED Luminaires, with appropriate glare/spill light control
3. Remote driver enclosure
4. Pole Foundations
5. Control System

B. The purpose of this specification is to define the performance standards, product values and features, required manufacturer's service responsibilities, and design standards for Gibson Park Pickleball in Roseville, CA.

1.03 Submittals
A. It has been predetermined that these project specifications are the minimum acceptable criteria for this project. Musco Sports Lighting LLC, Total Light Control – TLC for LED™ technology is the only pre-approved equipment supplier.

B. Manufacturers requesting approval shall provide submittal information as per Section 1.03 D. Submittal information must be received 10 days prior to bid opening, approved manufacturers will be notified by addendum.

C. Submit each item in this article according to the conditions of the contract and specification section. Any deviations to the specification require the manufacturer to list and describe in detail such deviations. Failure to provide this information shall be grounds for immediate rejection.

D. Submittal information required:

1. Light scans as per Section 1.04 of the specification.
2. Spill scans as per Section 1.05 of the specification.
3. Detailed warranty information as per Section 3.01 of the specification.
4. Detail foundation design as described in Section 2.01
5. Provide written information for the automated control system to include monitoring. Also provide examples of system reporting and access for numbers for personal contact to operate the system.

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6. The manufacturer must submit evidence in the form of a letter from a California Licensed structural engineer that the manufacturer has the ability to confirm to the California Title 24 structural design requirements. The manufacturer must provide five (5) similar pole submittal project reviews approved by the California Division of State Architecture's office in the past two (2) years. The examples are to include the D.S.A. file numbers.
7. Lighting Manufacturer will supply certified photometric reports from Independent Testing Lab (ITL) or a Certified Lab along with an aiming angle summary for verification.

1.04 Sports Lighting Performance

A. Illumination Levels and Design Factors: The illumination levels specified shall be based on light levels for 25 years. Light levels shall not drop below specified targeted lighting levels during the specified warranty period. Appropriate light loss factors shall be applied and submitted for the basis of design.

Area of Lighting	Light Levels	Uniformity	# of Points	Size of Area	Grid Spacing
Pickleball Courts 1-3	45fc	2:1	60	102' x 64'	10' x 10'
Pickleball Courts 4-6	45fc	2:1	60	102' x 64'	10' x 10'
Pickleball Courts 7-9	45fc	2:1	60	102' x 64'	10' x 10'

1.05 Spill and Glare Analysis

A. Submitted spill/glare computer models shall depict the field test stations at 150' from the field line. The test stations shall be shown every 30' along the line with the field lights on. Bidder shall submit, drawings reflecting 0 foot-candles horizontal and vertical at this line.

B. MATERIALS

A. Pole Structural Steel

1. The pole shafts shall be high strength low alloy tapered tubular steel that is equal to current ASTM A595 standards, with galvanized coating inside and out. All connections of pole sections shall be by slip fitting the top section over the lower section by a length of at least 1.5 times the diameters.
2. Steel components of the poles shall be hot dip galvanized t current ASTM A-123 Steel portions of the pole shall be constructed such that all segments of the pole can be readily heated to like temperatures in commercially available galvanizing methods.
3. To avoid problems of galvanize adherence to differing steel alloys, all steel components used for the pole must be of the same type steel.

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4. All exposed steel components of the pole shall be at least 18” above the surface of the ground to avoid exposure of the steel to the heavily moisture and oxygen laden air, both above and below the surface. Thereshall be a cap to cover the top of the pole so that rain will not enter the interior of the pole.
5. To avoid stress corrosion of the pole, there shall be no weld points of the steel portion of the pole within 18” of the ground. The pole shall be galvanized steel.
6. The poles for this project have been designed to withstand 110 mph winds based upon CBC-C standards. The premise of the wind speed criteria will be the 50 year mean recurrent isotach wind map. Applicable gust factors to be applied per code.

B. Foundation Design

1. The Manufacturer shall provide a stamped foundation design, prepared by a Structural Engineer, licensed in the State of California.
2. The foundation design shall be based upon recommendations contained in the Geotechnical Report furnished by the Owner. If a Geotechnical Report is not provided by the Owner, the foundation design shall be based on soils that meet or exceed those of a Class 5 material as defined by the 2010 CBC Table 1806.2.
3. It is the contractor’s responsibility to notify the owner of soil conditions other than the design criteria. The owner shall then be responsible and absorb the additional costs associated with: Providing engineered foundation embedment design by a registered engineer in the State of California for soils other than specified soil conditions. Additional materials required to achieve alternate foundation. No direct burial steel poles allowed.
4. Lightning Protection: Manufacturer shall provide integrated lightning grounding via concrete encased electrode grounding system as defined by NFPA 780 and be UL Listed per UL 96 and UL 96A. If grounding is not integrated into the structure, the Manufacturer shall supply grounding electrodes, copper down conductors and exothermic weld kits. Electrodes and conductors shall be sized as required by NFPA 780. The grounding electrode shall be not less than 5/8 inch diameter and 8 feet long, with a minimum of 10 feet embedment. Grounding electrode shall be connected to the structure by a grounding electrode conductor with a minimum size of 2 AWG for poles with 75 feet mounting height or less, and 2/0 AWG for poles with more than 75 feet mounting height.

C. LED Sports Lighting Fixtures:

The lens is permanently sealed to keep optics away from harmful environmental elements. Fixture is vented and filtered to adapt to environmental elements. Heat sink with a unique convective air cooling design with high thermal conductivity and corrosion resistant construction. Machine mounted surface for maximum heat transfer of diode assembly and maintains low LED junction temperature during high wattage operation. Custom high power diode package with a metal core printed circuit board. The light control visors are factory aimed. Controls and directs more light onto the field which reduced glare and spill and enhances the on-field playability. Fixture is powder coated gray.

D. Remote Electrical Enclosure:

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Remote drivers and supporting electrical equipment shall be mounted approximately 10 feet above grade in aluminum enclosures. Drivers are remote for ease of installation and servicing. The enclosures shall be touch-safe and include drivers and fusing with indicator lights on fuses to notify when a fuse is to be replaced for each luminaire. Disconnect per circuit for each pole structure will be located in the enclosure.

E. Wire Harness: Spiral wound, abrasion protection sleeve, strain relief, plug-in connections

F. Energy Consumption: The average kWh consumption for the entire facility shall not exceed 10.32kW for the lighting system.

G. Controls and Monitoring System:

1. Factory assembled lighting control cabinet (LCC) – The LCC shall be assembled and wired by a UL listed panel builder. The LCC shall contain Contactors, Monitoring and Control System and door mounted Manual off-on-auto selector switches. The LCC shall arrive at the job site ready to attach to an existing wall, switchgear, or a free standing enclosure.

    a. Control Wire Terminations - The Control Wire Terminations shall include UL listed terminal blocks mounted on a DIN rail and 250 volt, 16 amp, touch safe type fuse holders.

    b. The ECE shall be constructed of aluminum and shall be powder coated gray. The cabinet door shall utilize a lockable, 3 point latching assembly that provides a NEMA 4 rated seal.

    c. Contactor Modules – Contactors shall be UL listed for lighting applications. They shall be rated at full capacity, be electrically held, utilize a 120 volt coil and be rated for operation in a ambient temperature range from -40 degrees C to +70 degrees C.

    d. Manual off-on-auto Selector Switches – For on site manual control, three position selector switches shall be factory mounted to the ECE door. The switches shall be keyed and maintain position, with make before break contacts. The switches shall be factory wired to control terminal blocks.

    e. Warranty – The LCC shall be covered under the standard warranty for the accompanying lighting equipment.

2. Remote Monitoring System: System shall monitor lighting performance and notify manufacturer if individual luminaire outage is detected so that appropriate maintenance can be scheduled. The manufacturer shall notify the owner of outages within 24 hours, or the next business day. The controller shall determine switch position (manual or auto) and contactor status (open or closed). The Monitoring System shall be factory wired to control terminal blocks.

3. Remote Lighting Control System: The Lighting Control System shall allow owners and users with a security code to schedule on/off system operation via a web site, phone, fax or email up to ten years in advance. Manufacturer shall provide and maintain a two-way TCP/IP communication link. Trained

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staff shall be available 24/7 to provide scheduling support and assist with reporting needs. The Light Control System shall be factory wired to control terminal blocks.

3.01 Warranty

A. 25-Year Warranty: Each manufacturer shall supply a signed warranty covering materials and labor for the entire system for 25 years from the date of shipment. Warranty shall specify light levels, system energy consumption, monitoring, maintenance and control services, spill light control, and structural integrity. Manufacturer shall maintain specifically-funded financial reserves to assure fulfillment of the warranty for the full term. Warranty does not cover weather conditions events such as lightning or hail damage, improper installation, vandalism or abuse, unauthorized repairs or alterations, or product made by other manufacturers.

3.02 Field Technician

A. Manufacturer shall have available a local factory trained technician to provide project support including but not limited to: Lamp replacement, confirm luminaire, aiming points, troubleshoot, and educate customer maintenance personnel.

END OF SECTION

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SECTION 31 10 00
CLEARING AND GRUBBING

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. Preserve and protect existing site amenities to remain, including, but not limited to, trees, shrubs, 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.

1.03 Related Work

A. Section 31 20 00: Earthwork

B. Section 01 57 23: Storm Water Pollution Control

1.04 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, benches, picnic tables, play structures, shade structures, drinking fountains, concrete paving, concrete wall and curbs,

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decomposed granite paving, asphalt concrete paving, recreational site improvements, 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

Intentionally left blank.

PART 3 - EXECUTION

3.01 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.

3.02 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.

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B. Obtain verification from the Project Manager for non-identified items scheduled to be removed prior to actual removal.

3.03 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.

3.04 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.

3.05 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

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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 requires export of material. The export 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.

1.03 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

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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

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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. Structural Fill shall conform to Caltrans Standard Specifications or the accepted site-specific geotechnical report generated for the project.

B. 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.

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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.

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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.

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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.

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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 12 16
ASPHALT CONCRETE PAVING

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 and the City of Roseville Parks Construction Standards, latest editions, shall be in addition to the standards provided herein.

D. The standards set forth in the State of California, Title 24, Americans with Disabilities Act, latest edition, shall be in addition to the standards provided herein.

1.02 Description

A. Furnish all labor, materials and equipment for the complete installation of asphalt concrete paving, including international disabled signs as shown in the City Standard, as shown on the Plans and as specified herein.

1.03 References

A. Caltrans Standard Specifications for asphaltic concrete, latest edition.

1.04 Tolerances

A. All surface areas shall drain. Ponding, puddling or birdbaths are not acceptable.

B. Surface grades shall conform to the following:

Description	shall not exceed, ... from indicated line, grade or thickness
Base Course	0.1 foot +/-
Finish Surface	0.05 foot +/-
Thickness of finished pavement	0.01 foot less

C. Flatness: maximum variance of 1/8” as measured with a ten (10) foot straight edge.

1.05 Testing

A. Testing shall occur during the installation of pavement. The number and frequency of tests shall be as determined by the Inspector.

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PART 2 - PRODUCTS

2.01 Aggregate Base

A. Conform to Caltrans Standard Specification, Section 26 paragraph 1.02B, Class 2.

2.02 Asphalt Concrete

A. Conform to Caltrans Standard Specification, Section 39 and the City of Roseville Design and Construction Standards, latest edition.

2.03 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.

2.04 Striping

A. Traffic marker paint, in accordance with Caltrans Standard Specifications, Section 83-3.02.
B. Thermoplastic marking tape in accordance with Caltrans Standard Specifications, Section 84-2.02. (Required for bike trails)

2.05 Header

A. Per City of Roseville Parks Construction Standards, latest edition.

2.06 Accessible Parking Signs

A. Signs for parking stalls shall conform to the California Manual on Uniform Traffic Control Devices (CMUTCD), the Standard Highway Signs manual with the Caltrans California Sign Specifications.
B. Notification sign: Notification sign shall read: “Unauthorized vehicles parked in designated handicapped spaces not displaying distinguishing placards or license plates issued for physically disabled persons may be towed at owner’s expense. Towed vehicles may be reclaimed at Roseville PD, 1051 Junction Blvd or by telephoning (916) 774-5000. CVC 22511.8”.
C. Sign posts: shall conform to Section 56 Signs in the City of Roseville Design and Construction Standards.

PART 3 - EXECUTION

3.01 Preparation

A. Upon completion of grading operations, compact the subgrade at the required elevation to a relative compaction density of 95%, unless otherwise noted on

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the Plans. A load or performance test shall be conducted in the presence of the Inspector prior to the placement of AC.

B. Apply soil sterilant per manufacturer's directions. Limit the work zone of the sterilant application to the area to receive paving plus three feet (3') on each side.
C. Completely install redwood header as shown in the City of Roseville Parks Construction Standards, latest edition, if shown on the Plans.
D. No material shall be placed in muddy conditions, nor shall any material be placed during or immediately after inclement weather, i.e. rain storms, temperatures below 35 degrees F, etc.
E. In areas where soil conditions are less than optimal, geotechnical tests shall be performed to verify compaction rates. The Inspector shall determine the number of tests necessary in order to verify conditions. Initial tests will be provided by the City. Re-tests shall be the Contractor's responsibility.

3.02 Installation

A. Spread aggregate base material in six-inch (6") lifts.
B. Compact base surface to a relative compaction of 95% and in accordance to the Caltrans Standard Specifications, Section 26.
C. Spread asphalt concrete material in accordance to the Caltrans Standard Specifications, Section 39.
D. Upon completion, apply water to the finished surface and allow water to run-off. All areas of ponding, puddling or birdbaths shall be filled with asphalt and fine aggregate. Conform fill surface with adjacent surface to the point edges are not visible.
E. Take every precaution to protect adjacent amenities or structures from material spillage or damage. In case of spillage or damage, the Contractor shall immediately repair or replace the damaged area to the satisfaction of the City.
F. Clean and oil all manhole covers, grates and other surface structures within the pavement area.
G. All new asphalt concrete paving shall receive a fog seal at a rate of 1/12 to 1/10 gallon of undiluted emulsion per square yard. All work shall conform to Caltrans Standard Specifications, Section 37. **Once sealed, parking of vehicles and/or equipment or stockpiling of material on the finished surface is prohibited.**
H. Clean all surface structures that lie within the asphalt concrete area.

3.03 Striping

A. Conform to the City of Roseville Design and Construction Standards, latest edition.

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B. Ensure that all pavement to receive striping is completely cured. Clean all pavement surfaces.
C. Accurately lay out all pavement markings, including, parking stripes, centerline stripes, international disabled parking logo, striping for disabled access ramp, directional arrows, game court lines and other pavement markings as shown on the Plans or as required by code.
D. All pavement lines, striping and lettering shall be four inches (4") in width, unless otherwise indicated on the Plans.
E. Lines painted with traffic paint shall receive two coats of paint. Allow each coat to dry completely prior to applying the second coat.
F. Apply all pavement markings on clean, dry surfaces, during weather conditions where temperatures are higher than 35 degrees F, no rain is occurring or predicted within the next twenty-four (24) hours, and the humidity is less than 80.
G. Remove all excess adhesives and tracking onto unmarked areas.
H. All pavement striping applications shall conform to Caltrans Standard Specifications, Sections 84 and 85.

3.04 Accessible Parking Signs (For parking lots only)

A. Verify that the language on the signs meets with current laws and regulations prior to installation. Immediately notify project manager of discrepancies.
B. For signs at parking stalls: install one per space designated for disabled parking. Locate sign as shown on the Plans. Verify location in the field prior to installation. Sign bottom shall be set at seven feet (7') above finished grade.
C. For notification signs: install one per driveway entrance. Verify location in the field prior to installation. Sign bottom shall be set at two feet (2') above finished grade unless otherwise directed.
D. Sign post installation shall conform to TS-17A of the City of Roseville Development Services Design and Construction Standards.

3.05 Protection and Cleaning

A. Do not allow equipment or vehicles to park on new asphalt surfaces upon completion of fog seal operations. At his discretion, the Contractor may allow the parking of equipment and vehicles on the asphalt concrete **AFTER** the asphalt concrete material has been laid, passing applicable compaction tests and **PRIOR TO** applications of fog seal and striping.

END OF SECTION

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SECTION 32 15 40
DECOMPOSED GRANITE PAVING

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 and the City of Roseville Parks Construction Standards, latest editions, shall be in addition to the standards provided herein.

1.02 Description

A. Furnish all labor, materials and equipment for the complete installation of decomposed granite paving, including redwood headers as shown in the Plans and as specified herein.

1.03 References

A. Caltrans Standard Specifications, latest edition.

1.04 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. Decomposed granite material and binding material: provide a sample “brick” for review and approval.

PART 2 - PRODUCTS

2.01 Crushed Quarry Rock

A. Crushed rock, graded between #4 and #200. Rock shall be high quality and well-graded.

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B. Hastie's Capitol Sand and Gravel, Roseville, CA (916) 989-4600 or accepted equal.

2.02 Binding Material

A. PolyPavement, Los Angeles, CA (323) 954-2240 or accepted equal.

PART 3 - EXECUTION

3.01 Preparation

A. Upon completion of grading operations, compact the subgrade at the required elevation to a relative compaction density of 95%, unless otherwise noted on the Plans.
B. Completely install redwood header as shown in the City of Roseville Parks Construction Standards.
C. No material shall be placed in muddy conditions, nor shall any material be placed during or immediately after inclement weather, i.e. rain storms, etc.
D. Submit samples of crushed rock to a PolyPavement Certified Lab to prepare a laboratory "brick" to confirm that the quarry material has sufficient fines for good binding.

3.02 Installation

A. Provide a 10' by specified width test sample, to be approved prior to installation. This sample shall be the basis of overall approval.
B. Thoroughly combine binder per manufacturer recommendations.
C. Spread crushed granite fine/binder material in two (2) one and one half inch (1-1/2") lifts (thickness after compaction).
D. Wet and roll each lift to form a uniform, smooth surface with a cross slope of 2%. Compact each lift to a 95% relative compaction density.
E. Upon completion of the final lift, fill any depressions, holes or divots and re- roll using the above process.
F. Provide a Certificate of Compliance verifying that the binder/stabilizer has been mixed per manufacturer's recommendations.

3.03 Clean Up and Protection

A. Thoroughly clean all areas where work has occurred. Remove from 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.

END OF SECTION

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SECTION 32 18 23
PICKLE BALL COURT SURFACING

PART 1 - GENERAL

1.01 GENERAL DESCRIPTION

A. Textured acrylic surfacing for asphalt pickle ball courts.

1.02 RELATED SECTIONS

A. Related Work
1. 32 12 16 Asphalt Concrete Paving
2. 09 91 00 Painting and Finishes
3. 12 93 00 Site Furnishings

B. References
1. National Asphalt Paving Association (NAPA)
2. United States Tennis Association (USTA)
3. International Tennis Federation (ITF)
4. American Sport Builders Association (ASBA)

1.03 QUALITY ASSURANCE

A. Surfacing shall conform to the guidelines of the ASBA for planarity.

B. All surface coatings products shall be supplied by a single manufacturer.

C. The contractor shall record the batch number of each product used on the site and maintain it through the warranty period.

D. The contractor shall provide the inspector, upon request, an estimate of the volume of each product to be used on the site.

E. The installer shall be an authorized applicator of the specified system.

F. The manufacturer's representative shall be available to help resolve material questions.

1.04 SUBMITTALS

A. Manufacturer specifications for components, color chart and installation instructions.

B. Authorized Applicator certificate from the surface system manufacturer.

C. ITF classification certificate for the system to be installed.

D. Reference list from the installer of at least 5 projects of similar scope done in each of the past 3 years.

E. Current Material Safety Data Sheets (MSDS).

F. Product substitution: If other than the product specified, the contractor shall

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submit at least 7 days prior to the bid date a complete type written list of proposed substitutions with sufficient data, drawings, samples and literature to demonstrate to the owners satisfaction that the proposed substitution is of equal quality and utility to that originally specified. Information must include a QUV test of at least 1000 hours illustrating the UV stability of the system. The color system shall have an ITF pace rating in Category 3. Under no circumstances will systems from multiple manufacturers be considered.

1.05 MATERIAL HANDLING AND STORAGE

A. Store materials in accordance with manufacturer specifications and SDS.
B. Deliver product to the site in original unopened containers with proper labels attached.
C. All surfacing materials shall be non-flammable.

1.06 GUARANTEE

A. Provide a guarantee against defects in the materials and workmanship for a period of one year from the date of substantial completion.

1.7 INSTALLER QUALIFICATIONS

A. Installer shall be regularly engaged in construction and surfacing of acrylic tennis courts, play courts or similar surfaces.
B. Installer shall be an Authorized Applicator of the specified surface system.
C. Installer shall be a builder member of the ASBA.

1.8 MANUFACTURER QUALIFICATIONS

A. System manufacturer shall provide documentation that the surface to be installed has been classified by the ITF as a medium pace surface.
B. System manufacturer shall be a US owned company.
C. System manufacturer shall be a member of the ASBA.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. California Sports Surfaces, a division of the ICP Group, Andover, MA. 01810 / Plexipave System www.plexipave.com

B. Substitutions: Submit requests at least 7 days prior to the bid date with a complete type written list of proposed substitutions with sufficient data, drawings, samples and literature to demonstrate to the owners satisfaction that the proposed substitution is of equal quality and utility to the specified product. Information must

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include a QUV test of at least 1000 hours illustrating the UV stability of the system. The system shall have an ITF pace rating.

2.2 MATERIALS

A. Patching Mix (California Court Patch Binder) - for use in patching cracks, holes, depressions and other surface imperfections.

B. Crack Filler (California Crack Filler) - for use in filling fine cracks.

C. Acrylic Filler Course (California Acrylic Resurfacer) – for use as a filler for new or existing asphalt surfaces. The acrylic filler shall be blended with approved silica sand at the job site.

D. Acrylic Color Playing Surface (Plexichrome Ultra Performance/Plexipave Color Base) – for use as the finish color and texture. Plexichrome and Plexipave Color Base are blended at the job site to achieve the correct surface texture. *Factory Fortified Plexipave may be used as an alternative material.

E. Line Paint (California Line Paint) – for use as the line marking on the court/play surface.

F. Water – for use in dilution/mixing shall be clean and potable.

2.3 MATERIAL SPECIFICATIONS

A. Court Patch Binder – acrylic resin blended with Portland Cement and silica sand.

B. Plexipave Crack Filler – acrylic resin heavily filled with sand.

C. California Acrylic Resurfacer – acrylic resin (no vinyl copolymerization constituent). The product shall contain not less than 3.5% attapulgite.

D. Plexichrome Ultra Performance –acrylic resin (no vinyl copolymerization constituent) with selected light fast pigments.

E. Plexipave Color Base – acrylic resin containing no vinyl copolymerization constituent. Contains not more than 63% rounded silica sand.

F. California Line Paint – 100% acrylic resin containing no alkyds or vinyl constituents. Texturing shall be rounded silica sand.

All surfacing materials shall be non-flammable and have a VOC content of not less than 100g/L. Measured by EPA method 24.

Local sands are not acceptable in the color playing surface. Sands must be incorporated at the manufacturing location to ensure quality and stability.

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PART 3 EXECUTION

3.1 WEATHER LIMITATIONS

A. Do not install when rainfall in imminent or extremely high humidity prevents drying.
B. Do not apply unless surface and air temperature are 50°F and rising.
C. Do not apply if surface temperature is in excess of 140°F.

3.2 PREPARATION FOR ACRYLIC COLOR PLAYING SYSTEM

A. Clean surfaces of loose dirt, oil, grease, leaves, and other debris in strict accordance with manufacturer's directions. Pressure washing will be necessary to adequately clean areas to be coated. Any areas previously showing algae growth shall be treated with Clorox or approved product to kill the organisms and then be properly rinsed.

B. Holes and cracks: Cracks and holes shall be cleaned and a suitable soil sterilant, as approved by the owner, shall be applied to kill all vegetation 14 days prior to use of **Court Patch Binder** according to manufacturer's specifications.

C. Depression: Depressions holding enough water to cover a US five-cent piece shall be filled with Court Patch Binder Patching Mix. 3 gallons of Court Patch Binder, 100 lbs. 60-80 silica sand, 1-gallon Dry Portland Cement (Type I). **This step shall be accomplished prior to the squeegee application of Acrylic Resurfacer.** The contractor shall flood all the courts and then allow draining. Define and mark all areas holding enough water to cover a nickel. After defined areas are dry, prime with tack coat mixture of 2 parts water/l part Court Patch Binder. Allow tack coat to dry completely. Spread Court Patch Binder mix true to grade using a straight edge (never a squeegee) for strike off. Steel trowel or wood float the patch so that the texture matches the surrounding area. Never add water to mix. Light misting on surface and edges to feather in is allowed as needed to maintain work ability. Allow to dry thoroughly and cure.

NO WORK FROM THIS STAGE ON SHALL COMMENCE UNTIL AN INSPECTOR HAS ACCEPTED THE SURFACE.

D. Filler Course. (Acrylic Resurfacer): Filler course shall be applied to the clean underlying surface in one application to obtain a total quantity of not less than .06 gallon per square yard based on the material prior to any dilution. Acrylic Resurfacer may be used to pre-coat depression and crack/hole repairs to achieve better planarity prior to filler course application.

1. Over a properly repaired surface of asphalt on existing courts, apply one coat of Acrylic

Resurfacer according to the following mix:

Acrylic Resurfacer	55 gallons

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Water	20 - 40 gallons
Sand	600-800 pounds / 60-80 mesh
Liquid Yield	112-138 gallons

On new asphalt, two coats of Acrylic Resurfacer shall be used to properly fill all voids in the asphalt surface. Use clean, dry 50-60 mesh sand and clean, potable water to make mixes. The quantity of sand and water in the above mix may be adjusted within above limits to complement the roughness and temperature of the surface.

2. Mix the ingredients thoroughly using accepted mixing devices and use a 70 Durometer rubber bladed squeegee to apply each coat of Acrylic Resurfacer as required.

3. Allow the application of Acrylic Resurfacer to dry thoroughly. Scrape off all ridges and rough spots prior to any subsequent application of Acrylic Resurfacer or subsequent cushion or color surface system.

3.3 APPLICATION OF ACRYLIC COLOR PLAYING SURFACE

A. All areas to be color coated shall be clean, free from sand, clay, grease, dust, salt or other foreign matters. The Contractor shall obtain the Engineer's approval, prior to applying any surface treatment.

B. Blend color base and Plexichrome Ultra Performance with a mechanical mixer to achieve a uniform Fortified Plexipave mixture. The mix shall be:

Color Base	30 gallons
Plexichrome	20 gallons
Water	20 gallons

C. Application shall be made by 50 durometer rubber faced squeegees. The Fortified Plexipave mixture should be poured on to the court surface and spread to a uniform thickness in a regular pattern.

D. A total of 3 applications of Fortified Plexipave shall be made to achieve a total application rate of not less than .15 gal./sy. No application should be made until the previous application is thoroughly dry.

3.4 LINE PAINTING

A. Line shall be 2” wide unless otherwise noted on the drawings. Lines hall be carefully laid out in accordance with ASBA and USTA guidelines. The area to be marked shall be taped to insure a crisp line. The California Line Paint shall have a texture similar to the surrounding play surface. Application shall be made by brush or roller at the rate of 150-200 sg./gal. (3/4 gal. per tennis court).

3.5 PROTECTION

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A. Erect temporary barriers to protect coatings during drying and curing.
B. Lock gates to prevent use until acceptance by the owner's representative.

3.6 CLEAN UP

A. Remove all containers, surplus materials and debris. Dispose of materials in accordance with local, state and Federal regulations.
B. Leave site in a clean and orderly condition.

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SECTION 32 31 13
CHAIN LINK FENCING

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 Special 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 the chain link fence system, including gates as shown on the Plans and as specified herein.

1.03 References

A. Caltrans Standard Specifications, latest edition.

PART 2 - PRODUCTS

2.01 General

A. Wire used in the fabric shall be galvanized and shall have a tensile strength of 80,000 lbs. Per square inch based on cross sectional areas of the wire. One sample shall be tested without removing bends caused by weaving of the wire with the mesh. A second test shall be conducted on a wire strand carefully straightened. The tensile strength is finally determined as the average reading between the two tests. Wire to match fabric selection.

B. Fabric shall be 1-3/4" 9-gauge nominal wire mesh, *black vinyl coated* after weaving as shown on the plans. Conform to ASTM A392, with tensile strength as described in 2.01A above. Fabric shall be knuckled top and bottom with single width to full height of fence.

C. Ties/Fasteners shall be black powder coated wire.

D. Fittings, clips, bolts, bands, bars, post tops/covers and other hardware necessary for a complete fence system shall be *black powder coated*.

E. Where fencing is shown on the Plans to be black vinyl or powder coated, all appurtenances, including fabric, posts, rails, clips, bands, fittings, etc., necessary for a complete fence system shall be black vinyl or powder coated. Vinyl or powder coating shall be the industry standard for this type of finish.

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2.02 Posts and Rails

A. Posts and rails shall be *black powder coated*, to match fabric and as shown on the Plans. All posts shall be installed with moisture-proofed caps on the top.
B. Size and lengths of posts shall be as shown in the City of Roseville Design and Construction Standards PK-40, latest edition.

2.03 Gates

A. Fabric and finish to match fence.
B. Hinges and latches shall be industrial strength, heavy duty and shall fit snugly around post. Latches shall be lockable.
C. Size and lengths of posts shall be as shown in the City of Roseville Design and Construction Standards PK-40, latest edition.

PART 3 - EXECUTION

3.01 Post Installation

A. Posts are to be spaced evenly as shown on the City Standard and set plumb and true to lines with the top line uniform as shown in the City of Roseville Design and Construction Standards PK-40, latest edition.
B. All posts shall be set in concrete as shown in the City of Roseville Design and Construction Standards PK-40, latest edition.
C. Where nicks on vinyl or powder coated finished occurs due to installation, the Contractor shall re-finish and patch damaged areas immediately.

3.02 Fabric

A. Attach fabric using fabric bands or clips spaced approximately 14” apart. Connections to top rails and tension wires shall utilize wire ties placed 24” on center.
B. For corner and vertical end connections, install stretcher bars banded to posts and gate frames at 24” apart (maximum).
C. All fabric to be stretched tight, free from sags and bulges.

3.03 Rails

A. For splices along the top rail, provide couplings every 20’. The coupling shall produce a continuous brace from end to end of each stretch of fence. Install a heavy spring at every fifth coupling to allow for expansion or contraction.
B. Utilize the appropriate fittings to ensure that all rails are rigidly clamped to end and corner posts.
C. Clamp mid and bottom rails at each post.

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3.04 Gates

A. Gates shall be installed consistent with the City Standard detail. Verify grade conditions along the fence bottom to ensure proper use of the gate(s).
B. Gate openings shall be face-to-face dimensions and shall swing according to the Plans.

3.05 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 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

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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. Piping
3. Irrigation components and accessories

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.

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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 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.

2.05 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. Applications with high and low flows requiring a bypass manifold flow meter shall instead utilize Flomec QS200 Ultrasonic Flow Sensor.
2. Master valve(s) shall be Superior, 3300 series, normally open, electric globe valve, constructed of brass with dirty water protection and No Minimum Flow feature.
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.

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2.06 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.

2.07 Fittings and Nipples

A. Fittings for 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 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.

2.08 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.

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2.09 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. 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.

2.10 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

2.11 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.

D. Include built-in check valve where applicable to prevent low head drainage.

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2.12 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.

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).

2.13 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.

2.14 Quick Coupler Valves

A. For potable water, quick coupling valves shall be Rainbird #44LRC 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.

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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.

2.15 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.

2.16 Automatic Irrigation Controller

A. Automatic controllers shall be Calsense CS3000 or accepted equal. Each controller shall include:
   1. CS3-LR – Calsense Local Radio,
   2. FM-B – Flow Meter (Brass),
   3. CS3-SS1 or CS3-SS1-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.

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When multiple controllers are used, include:

4. CS3-FL – Flowsense software (for multiple controllers sharing POC and/or communications)
5. CS3-MSSE-KIT or CS3-SR-KIT – Hardwire or SR radio,

When multiple flow sensors are used, include:

6. CS3-2WIRE-OPT & CS-2W-POC (one per POC) – Additional Flow Meter interface.

B. Communication wire between controllers shall be Paige Cable P7171D or accepted equal.

2.17 Control Wires

A. Direct burial solid copper wire AWG-U.F. 600 volt.
B. Common wire and two spare wires 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 3M Scotchcast 3570G Connector Sealing Packs, no known equal.
E. Wiring colors shall be:

USE	**COLOR**
Flow	Yellow
Master	Blue
Pump	Black
Valves	Red
Common	White
Spare	Orange
Tracer	Green

2.18 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.

2.19 Tracer Wire

A. Insulated solid copper wire, minimum #12 gauge. Color shall be green.

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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

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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 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.

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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.

3.09 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. 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.

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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 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.

3.12 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.

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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.

3.13 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.

3.14 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.

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3.15 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.

3.16 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.

3.17 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.

3.18 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.
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, including actual mapping data of individual catch cans recorded on irrigation plan sheets , and 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

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to approval of turf planting. Deficiencies caused by improper installation shall be corrected at no additional cost to City.

3.19 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.

3.20 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.

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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. Improper irrigation management resulting in flooding or dry conditions to the detriment of plant material may constitute an extension of the establishment period, at no additional cost to the City.

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.

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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. Sod-grown turf,
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.

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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

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furnished for convenience only. Verify all quantities prior to ordering plant material.

2.02 Soil Amendment

A. As recommended by soils test report.

2.03 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.

2.04 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.

2.05 Pre- and Post- Emergent Herbicide

A. Clean, and non-staining. Consult with a pesticide specialist.

2.06 Tree Stakes and Ties

A. Trees furnished in #15 nursery containers require 2” diameter stakes. Trees less than 8' in height require an 8' stake; trees 8' or greater in height require a 10' stake. Stakes shall be pine or douglas fir (pressure or non-pressure treated).
B. Trees furnished in 24” boxes or larger require 3” diameter by 10’ long stakes. Stakes shall be, 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.

2.07 Native Broadcast Seed

A. Where required, broadcast seed shall be applied as follows:
   1. Upland areas

Elymus glaucus (Blue Wildrye)	10.0 lbs/acre
Nassella pulchra (Purple Needlegrass)	9.0 lbs/acre

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Nassella cernua (Nodding Needlegrass)	6.0 lbs/acre
Melica caljfornica (Californiameljc)	3.0 lbs/acre
Vulpia microstachys (Small Fescue)	3.0 lbs/acre
Poa secunda (Native Pine Bluegrass)	3.0 lbs/acre
Bromus carinaws (California Brome)	2.0 lbs/acre

2. Channel / Wetland Edges (bottom to 3’ above high water level)

Elymus trachycaulus (Slender Wheetgrass)	12.0 lbs/acre
Hordeum brachyantherum (Meadow Barley)	10.0 lbs/acre
Leymus triticoides 'Yolo' (Creeping Wildrye)	8.0 lbs/acre
Agrostis exarata (Bentgrass)	3.0 lbs/acre
Elymus glaucus (Blue Wildrye)	5.0 lbs/acre

3. Wildflowers (addition to seed mix(es) above, if specified)

Clarkia amoena (Farewell to Spring)	0.5 lbs/acre
Eschscholzia caljfornica (California Poppy)	2.0 lbs/acre
Lupinus nanus {Sky Lupine)	3.5 lbs/acre
Nemophila menziesii (Baby Blue Eyes)	1.5 lbs/acre
Lasthenia californica (Common Goldfields)	1.5 lbs/acre

B. Areas with sandy, dry soil shall receive: Zorro Annual Fescue 6 lbs/acre, Rose Clover 9 lbs/acre
C. A fertilizer consisting of 15-15-15 shall be applied at a rate of one half pound per 1,000 square feet. Fertilizer shall be Natural-based, slow release, and balanced in N, P, & K.
D. Seed for creek banks shall conform to the latest requirements of the California Department of Fish and Game.

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.

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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.

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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 structural pruning, as necessary. Codominant leaders need to be removed or suppressed by structural pruning. 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. For trees, water in by hand after planting using at least ten (10) gallons of water, minimum.
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.

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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. 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 Seeding- Turf and Native

Hydroseeding for natural 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.

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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 four inches (4”) 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 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. Immediately replace all dead plants.
    2. As necessary, raise all trees and shrubs which have sunk within the plant pit beyond the levels indicated in the Standard details.
    3. Keep all areas free of weeds, pests and disease.
    4. 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.

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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,
   5. Walkways and paved areas have been swept and washed, and
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 warrantied for a period of one (1) year, commencing on the date of final acceptance. The warranty shall be as outlined in Section 011000: Summary of Work, paragraph 1.19.

END OF SECTION

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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 entirely, unless otherwise directed by the Inspector.
B. Prior to excavation or trenching, the Contractor shall contact USA Alert (800)
C. 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.

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D. 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.
E. 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 D1784, or accepted equal. Gasketed connections shall conform to ASTM F477.

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B. Perforated drainpipe shall be smooth walled PVC, open per Caltrans Section 68-1.02K, or accepted equal.

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. Channel Drains for baseball/softball backstop areas shall be Polycast 600 series pre-sloped trench drains with galvanized steel slotted grates or accepted equal.

C. 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 Sanitary Sewer 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.

B. PVC SDR 35 may be used for drinking fountain drain applications only, with prior approval, and shall conform to ASTM D3034.

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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 Trench Drain

A. Trench Drains: Pre-sloped slot channel drain; Model KS 100S by ACO Polymer Products, Inc., 888-490-9552, or equal.
   1. Provide appropriate end connections and 600 series catch basin with in-line trash bucket and outlet connections.
   2. Grates:
      a) Pedestrian Locations: No. 494Q with quick lock locking device, and complying ADA Standards for Accessible Design.
      b) Vehicular Traffic Locations: Galvanized, No. 411Q or Stainless steel, No. 465Q.

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. 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.

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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. Channel drains shall be set per manufacturer’s instructions. Place slotted grates along the entire length of the backstop, including wing fencing, wherever concrete is placed adjacent to the backstop system. Provide a below grade piped connection at all gate openings into the infield area. Do not install grated drain sections at these entry/exit points.
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.
K. Trench Drain System (Channel Drain): Install as shown in the Drawings and in accordance with the manufacturer’s written recommendations.

3.03 Tracer Wire

A. Install tracer wire on top of the potable water lines
B. Tracer wire shall be continuous with no splices.

3.04 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.

3.05 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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IRRIGATION SCHEDULE REFERENCE DATA

PROJECT INFORMATION	
PROJECT NAME	Gibons Park
LOCATION	1099 Roseville Parkway, Roseville, CA 95678
NEAREST WEATHER STATION LOCATION	FAIR OAKS

SOIL SAMPLE SUMMARY	
SAMPLE DATE:	SAND
	SILT
	CLAY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Reference Eto (in./mo.)	1.07	2.40	2.89	3.16	6.81	7.61	7.62	7.34	5.25	3.72	1.30	1.61
Historical average precipitation	6.98	5.70	5.11	2.92	1.18	0.34	0.90	0.90	0.35	2.00	4.23	5.72
Effective precipitation (historical average -0.2" * 75%)	5.09	4.13	3.68	2.04	0.74	0.11	0.53	0.53	0.11	1.35	3.02	4.14
Base required irrigation (in./mo.)	0.00	0.00	0.00	1.12	6.08	7.51	7.10	6.82	5.14	2.37	0.00	0.00

HYDROZONE DATA

VALVE	DESCRIPTION (ORIENTATION, WATER USE)	KS	KD	KMC	KL	IRR TYPE	IE	PR	SOIL TYPE	BIR	AW	RZ	PAW	MAD	AD	AREA (SF)	% OF LANDSCAPE
1	Vine Planting - Medium Water Use	0.5	0.8	1.0	0.40	Bubbler	0.81	1.00	Sandy Clay Loam	0.5	0.08	12	0.96	50%	0.48	108	7.98%
2	Shrubs and Groundcover - Low Water Use	0.2	1.0	1.0	0.20	Subsurface	0.81	1.00	Sandy Clay Loam	0.5	0.08	12	0.96	50%	0.48	644	47.60%
3	Trees - Low Water Use	0.2	0.8	1.0	0.16	Bubbler	0.81	1.00	Sandy Clay Loam	0.5	0.08	36	2.88	50%	1.44	N/A	-
4	Parking Lot - Low Water Use	0.2	1.0	1.0	0.20	Subsurface	0.81	1.00	Sandy Clay Loam	0.5	0.08	12	0.96	50%	0.48	601	44.42%

Total Irrigated Area: 1353 100%

LEGEND: KS=SPECIES COEFFICENT, KD=DENSITY COEFFICENT, KMC-MICRO-CLIMATE COEFFICIENT, KL=LANDSCAPE COEFFCIENT, IE= IRRIGATION EFFICIENCY, PR = PRECIPITATION RATE, BIR = BASIC INTAKE RATE, AW = AVAILABLE WATER, RZ = ROOT ZONE, PAW = PLANT AVAILABLE WATER, MAD = MANAGED ALLOWABLE DEPLETION (%), AD = ALLOWABLE DEPLETION (INCHES).

WATERING SCHEDULE

Zone	Description			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Vine Planting - Medium Water Use		Days / Week	0	0	0	3	3	4	4	4	4	1	0	0
			Cycles / Day	0	0	0	1	1	1	1	1	1	1	0	0
	Max. Minutes / Cycle	30	Min. / Cycle	0	0	0	3	14	13	12	12	9	16	0	0
2	Shrubs and Groundcover - Low Water Use		Days / Week	0	0	0	3	3	4	4	4	4	1	0	0
			Cycles / Day	0	0	0	1	1	1	1	1	1	1	0	0
	Max. Minutes / Cycle	30	Min. / Cycle	0	0	0	2	7	7	6	6	5	8	0	0
3	Trees - Low Water Use		Days / Week	0	0	0	3	3	4	4	4	4	1	0	0
			Cycles / Day	0	0	0	1	1	1	1	1	1	1	0	0
	Max. Minutes / Cycle	30	Min. / Cycle	0	0	0	2	6	6	5	5	4	7	0	0
4	Parking Lot - Low Water Use		Days / Week	0	0	0	3	3	4	4	4	4	1	0	0
			Cycles / Day	0	0	0	1	1	1	1	1	1	1	0	0
	Max. Minutes / Cycle	30	Min. / Cycle	0	0	0	2	7	7	6	6	5	8	0	0

Total Irrigation System Runtime (during establishment) Percentage adjustment: 150%

Maximum system runtime per irrigation day (single-station operation)	Hrs	0.0	0.0	0.0	0.2	0.7	0.7	0.6	0.6	0.5	0.8	0.0	0.0

Total Irrigation System Runtime (normal operation)

Maximum system runtime per irrigation day (single-station operation)	Hrs	0.0	0.0	0.0	0.1	0.5	0.4	0.4	0.4	0.3	0.5	0.0	0.0

NOTE:
SPRAY IRRIGATION SHALL ONLY OPERATE BETWEEN THE HOURS OF 8PM-10AM.

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APPENDIX A - IRRIGATION SCHEDULE

WallaceKuhl & ASSOCIATES | A Universal Engineering Sciences Company

Geotechnical Engineering Report

GIBSON PARK

WKA No. 13232.01P

August 26, 2021

Prepared for:

Verde Design, Inc.

1843 Iron Point Road, Suite 140

Folsom, California 95630

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Geotechnical Engineering Report

GIBSON PARK

Roseville, California

WKA No. 13232.01P

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WallaceKuhl & ASSOCIATES
A Universal Engineering Sciences Company

Corporate Office
3050 Industrial Boulevard
West Sacramento, CA 95691
916.372.1434 phone
916.372.2565 fax

Stockton Office
3422 West Hammer Lane, Suite D
Stockton, CA 95219
209.234.7722 phone
209.234.7727 fax

Geotechnical Engineering Report
GIBSON PARK
Gibson Drive and Roseville Parkway
Roseville, California
WKA No. 13232.01P
August 26, 2021

INTRODUCTION

We have completed a geotechnical engineering investigation for the proposed Gibson Park development to be constructed northwesterly of the intersection of Gibson Drive and Roseville Parkway in Roseville, California. The purposes of our work have been to explore the existing soil and groundwater conditions at the site, and to provide geotechnical engineering conclusions and recommendations for the design and construction of the proposed park. This report presents the results of our work.

Work Scope

Our scope of work has included the following tasks:

1. site reconnaissance;
2. review of United States Geological Survey (USGS) topographic maps, geologic maps, historical aerial photographs, and available groundwater information;
3. subsurface exploration, including the drilling and sampling of six borings to depths of approximately four to 7½ feet below the existing ground surface;
4. performing two percolation tests and two infiltration tests at the site;
5. bulk sampling of near-surface soils;
6. laboratory testing of selected soil samples;
7. engineering analyses; and,
8. preparation of this report.

Figures and Attachments

This report contains a Vicinity Map as Figure 1; a Site Plan showing the boring locations as Figure 2; and. the Logs of Soil Borings on Figures 3 through 8. An explanation of the symbols and classification system used on the test pit logs is contained on Figure 11. Appendix A contains general information regarding project concepts, exploratory methods used during our field investigation, and laboratory test results that are not included on the logs.

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Proposed Development

We understand the project will consist of the design and construction of new hardcourts (pickle ball courts, tennis courts, and basketball courts), a restroom building, shaded picnic area, turf fields, and sidewalks. Associated development is anticipated to consist of underground utilities, light poles, and pavements.

Grading plans were not available for review at the time this report was prepared. However, based on existing topography of the site, we anticipate cuts and fills of about one to five feet will be required to establish final subgrade levels across the majority of the site. However, deeper cuts and fills may be required to remove the existing stockpile and/or backfill drainage swales.

FINDINGS

Site Description

The proposed park site is located northwesterly of the intersection of Gibson Drive and Roseville Parkway in Roseville, California. The proposed park site is bounded to the northwest and northeast by existing residential development; to the southwest by Roseville Parkway; and, to the southwest by Gibson Drive.

At the time of our site investigations on July 12 and 13, 2021, the southern corner of the site was covered in asphalt concrete pavements and a portable trailer that supported an office. The remaining portion of the site was generally vacant and covered with low-lying native grasses and weeds. Overhead power/utility lines were located along the southwestern boundary of the site and overhead poles were located within the existing parking area.

A large stockpile was observed near the middle northern portion of the site with an observed height of about eight to 12 feet tall, a length of about 160 feet in a north to south orientation, and a width of about 50 to 65 feet in an east west direction.

Four drainage swales were observed on the site. One drainage swale was observed near the west portion of the site extending from the north to the south side of the property and had an observed depth ranging of about eight to 12 feet below existing site grades. The second drainage swale was observed near the north portion of the site and extends from the middle east to the east side of the site, it had an observed depth ranging from about five to 10 feet

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below existing site grades. Two other shallower (i.e., less than five feet) drainage swales were observed adjacent to the east and south portions of the site.

Topography of the site slopes gently downward from northeast to southwest with surface elevations varying from about +185 feet relative to mean sea level (msl) along the northeast boundary of the site to about 175 feet msl at the southwest boundary of the site. The parking lot is about two to five feet lower in elevation than the surrounding subgrade.

During the drilling operations, the City of Roseville grout inspector informed our field engineer that much of the northern portion of the site and the stockpiles were likely fill from development of the nearby shopping centers by the Roseville Galleria were constructed.

Historical Aerial Photograph Review

We reviewed historical aerial photographs from the years 1947 through 2020. Review of the aerial photograph from 1947 indicates the site was vacant land. The site appears relatively unchanged in aerial photographs from 1957 and 1966. The aerial photograph from 1993 shows the site is relatively unchanged, however, Roseville Parkway has been constructed and the alignment of Gibson Drive is visible but does not appear to have been built. The residential development to the northwest is visible in the 2002 photograph and the development northeast of the site is visible in the 2003 photograph. Partial grading of the site appears to have been performed between 2002 and 2003 and the drainage ditch traversing the northwest end of the site is visible in the 2003 photograph.

The site appears to have remained relatively unchanged until sometime between 2006 and 2007. A 2007 photograph shows the existing parking area has been constructed and grading appears to be occurring at the southwest end of the site. The existing stockpile is visible in the 2007 photograph. The site appears to be relatively unchanged until October of 2020 when the existing trailer is visible. The trailer appears to have been placed between June of 2020 and October of 2020. The site appears to have remained essentially unchanged since October of 2020.

Site Geology

Review of the Department of Interior United States Geologic Survey publication "Geologic Map of the Late Cenozoic Deposits of the Sacramento Valley and Northern Sierra Foothills, California" revealed the site is mapped as being underlain by the Mehrten Formation which consists of two distinct units: a conglomerate of slightly to well-cemented rounded gravels,

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cobbles, and boulders in a matrix of sand and silt that sometimes contains layers of well-cemented sand stone; and, a volcanic mudflow breccia which consists of a hard rock unit composed of angular andesitic blocks, up to several feet in size, in a well-cementer matrix of volcanic ash. The mudflow breccia typically is a massive unit with few discontinuities except for irregular-spaced tension cracks in the surface.

Soil Conditions

The test borings indicate the surface and near-surface soils across the site consist of relatively dense, variable cemented silts with varying clay, silt, and sand contents to the explored four to 7½ foot depths of the borings. The variably cemented soils are locally referred to as "hardpan." These soils are generally underlain by a cobble/boulder conglomerate in a matrix with silty sand and gravel.

However, undocumented fill soils were encountered within the upper two to four feet at borings D3 and D5. The fill is considered undocumented as the material was likely not placed as engineered fill in the presence of a geotechnical engineer's representative.

Subsurface conditions observed during our exploration are consistent with the mapped geology described in the Site Geology section of this report. It should be noted that all borings were terminated due to practical auger refusal within the cobble/boulder conglomerate.

For detailed soil conditions at a particular location, please refer to the Logs of Soil Borings on Figures 3 through 8.

Groundwater

Free groundwater was not encountered within the test borings drilled on July 12, 2021 to the explored depths four to 7½ feet below existing site grades.

Our review of available groundwater information in the area indicates groundwater at the site is anticipated to be deeper than 50 feet below existing site grades.

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CONCLUSIONS

2019 California Building Code Seismic Design Parameters

The project will be designed under the 2019 edition of the *California Building Code* (CBC). The 2019 CBC references the *American Society of Civil Engineers (ASCE), Minimum Design Loads and Associated Criteria for Buildings and Other Structures 7-16*. To assist with the structural design of the project, we have provided seismic design parameters for the 2019 CBC, which have been determined based on the site location and the web interface developed by the Structural Engineers Association of California (SEAOC) and the Office of Statewide Health Planning and Development (OSHPD) (https://seismicmaps.org).

The following seismic design parameters summarized below in Table 1 may be used for seismic design of the proposed improvements.

TABLE 1: 2019 CBC/ASCE 7-16 SEISMIC DESIGN PARAMETERS

Latitude: 38.3763° N Longitude: 121.2766° W	ASCE 7-16 Table/Figure	2019 CBC Figure/Section/Table	Factor/ Coefficient	2019 CBC Values
0.2-second Period MCE	Figure 22-1	Figure 1613.2.1 (1)	S_S	0.437 g
1.0 second Period MCE_R	Figure 22-2	Figure 1613.2.1 (2)	S_1	0.220 g
Soil Class	Table 20.3-1	Section 1613.2.2	Site Class	C
Site Coefficient	Table 11.4-1	Table 1613.2.3 (1)	F_a	1.300
Site Coefficient	Table 11.4-2	Table 1613.2.3 (2)	F_v	1.500
Adjusted MCE Spectral Response Parameters	Equation 11.4-1	Equation 16-36	S_{MS}	0.568 g
	Equation 11.4-2	Equation 16-37	S_{M1}	0.330 g
Design Spectral Acceleration Parameters	Equation 11.4-3	Equation 16-38	S_{DS}	0.378 g
	Equation 11.4-4	Equation 16-39	S_{D1}	0.220 g
Seismic Design Category	Table 11.6-1	Table 1613.2.5 (1)	Risk Category I to IV	D
	Table 11.6-2	Table 1613.2.5 (2)	Risk Category I to IV	D

Notes: MCE_R = Risk-Targeted Maximum Considered Earthquake
g = gravity

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Liquefaction Potential

Based on the results of our subsurface exploration, the known geologic, seismic, groundwater and soil conditions, it is our opinion that the potential for liquefaction occurring at the site during seismic events does not exist.

Bearing Capacity

Based upon our field and laboratory testing, it is our opinion the undisturbed native soils are capable of supporting the planned improvements. Our work also indicates engineered fills composed of native soils, or approved imported soils constructed in accordance with our recommendations, also will be capable of supporting the planned improvements.

However, the existing fill soils encountered at the site are not considered unsuitable for support of the proposed structures at the site, including foundations, floor slabs, and pavements due to the relatively loose and variable nature of the fill. Therefore, we recommend removing and replacing the existing fill soils with engineered fill in accordance with the recommendations of this report.

The extent and depth of the existing undocumented fill is anticipated to vary across the site. In general, we anticipate the majority of the existing fill that will require removal and replacement is between about two and four feet below the existing ground surface.

In addition, site development will include the removal of the existing soil stockpiles and backfilling the existing drainage swales and recompaction of surface soils across the site that have been disturbed due to previous site activities.

Clearing operations to remove the undocumented fill, soil stockpiles and clear the drainage swales of loose soil and debris will disturb the soils and create loose and variable soil conditions. Disturbed areas must be excavated to expose firm, undisturbed native soils and the excavations backfilled with engineered fill to provide adequate and uniform support for the planned structures and pavements. Undisturbed native soils, recompacted native soils, and engineered fill that is properly placed and compacted as recommended in this report will be capable of supporting the proposed structures and pavements.

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Excavation Conditions

Near-surface soils of the Mehrten Formation should be excavatable with conventional earthmoving and trenching equipment typically used in the Roseville area. However, cemented soils (**"hardpan"**) encountered in our borings may be slow to excavate with a standard, rubber-tired backhoe; however, specialized excavation equipment is not anticipated.

Soil sidewalls for the planned foundation excavations and shallow utility excavations may remain stable at near-vertical inclinations without significant caving for short periods of time. However, the near-surface existing fill and zones of cohesionless soils that are encountered may require excavation bracing or shoring to control sloughing or caving. If construction is performed during the rainy season, soil sidewalls may also experience sloughing or caving and may require excavation bracing or shoring.

Cemented cobble/boulder conglomerates of the Mehrten Formation will be difficult to excavate. Although slow excavation should be anticipated, large excavators (e.g. Caterpillar 245 and Komatsu PC750) can typically excavate utility trenches in this material. Large tractors (equivalent in size or larger than a Caterpillar D10) equipped with a single-tooth ripper typically are capable of ripping the cemented conglomerates. Pre-ripping of utility trench alignments with large tractors during mass grading can reduce difficulty during utility trenching.

Excavations deeper than five feet that will be entered by workers should be sloped, braced or shored in accordance with current Occupational Safety & Health Administration (OSHA) regulations. The contractor must provide an adequately constructed and braced shoring system in accordance with federal, state and local safety regulations for individuals working in an excavation that may expose them to the danger of moving ground.

Excavated materials should not be stockpiled directly adjacent to an open trench to prevent surcharge loading of the trench sidewalls. Excessive truck and equipment traffic should be avoided near open trenches. If material is stored or heavy equipment is operated near an excavation, stronger shoring would be needed to resist the extra pressure due to the superimposed loads.

Temporarily sloped excavations, if used, should be designed in accordance with OSHA standards and should be constructed no steeper than a one horizontal to one vertical (1H:1V) inclination.

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Soil Expansion Potential

The surface and near-surface soils at the site consist of silts with varying clay, silt, and sand contents. Laboratory testing of near-surface soils at the site revealed the near-surface sandy clays possess a very low expansion potential when tested in accordance with the ASTM D4829 test method (see Figures A1 through A3).

Based on the soil conditions encountered in our borings and results of the laboratory testing, special reinforcement of foundations and floor slabs, or special moisture conditioning during site grading to resist or control soil expansion pressures, are not considered necessary on this project provided the recommendations of this report are followed and the site grading and compaction operations are observed by a representative of the Geotechnical Engineer.

Soil Suitability for Engineered Fill Construction

The on-site soils encountered in our borings are considered suitable for use in engineered fill construction, provided these materials are free of rubble, rubbish, significant organic concentrations, and are at a workable moisture content appropriate for compaction. Imported materials, if necessary, should be granular and approved by our office prior to importing the materials to the site.

We anticipate the majority of the stockpiled materials are from areas adjacent to the project site and are likely suitable for use in engineered fill construction provided the stockpiled materials are free of rubble, rubbish, significant organic concentrations, and are at a workable moisture content appropriate for compaction. However, further exploration and/or testing may be required to verify the suitability of the stockpiled materials.

Cobble/boulder conglomerates and rocky materials should be suitable for use as fill material, provided they do not contain rubble, rubbish and organic concentrations. Boulders larger than 12 inches in diameter may be excavated during earthwork activities. Boulders would need to be broken down to a suitable size prior to placement if they will be used as engineered fill; as an alternative, boulders may be used within the deeper portions of fills.

Pavement Subgrade Quality

Laboratory test results indicate the near-surface soils exhibit moderate subgrade qualities for support of asphalt concrete pavements. Resistance ("R") values of 27 and 33 were obtained on near-surface soil samples tested in accordance with California Test 301. A design R-value of

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25 is considered appropriate for design of pavements at the site. Summaries of the R-value test results are presented on Figure A4.

Preliminary Soil Corrosion Potential

Two samples of near-surface soil were submitted to Sunland Analytical Lab for testing to determine pH, chloride and sulfate concentrations, and minimum resistivity to help evaluate the potential for corrosive attack upon buried concrete. The results of the corrosivity testing are summarized in the following table. Copies of the test reports are presented on Figures A5 through A8.

TABLE 2
SOIL CORROSIVITY TESTING

Analyte	Test Method	Sample Identification	
		D1 (2-2½')	D6-1 (2-2½')
pH	CA DOT 643 Modified*	6.23	6.27
Minimum Resistivity	CA DOT 643 Modified*	2680 Ω-cm	3480 Ω-cm
Chloride	CA DOT 422	9.1 ppm	4.7 ppm
Sulfate	CA DOT 417	6.8 ppm	9.7 ppm
Sulfate – SO4	ASTM D516	6.0 mg/kg	9.2 mg/kg

Notes: * = Small cell method; Ω-cm = Ohm-centimeters; ppm = Parts per million; mg/kg=ppm

The California Department of Transportation Corrosion and Structural Concrete Field Investigation Branch, 2015 Corrosion Guidelines (Version 2.1), considers a site to be corrosive to foundation elements if one or more of the following conditions exists for the representative soil and/or water samples taken: has a chloride concentration greater than or equal to 500 ppm, sulfate concentration greater than or equal to 2000 ppm, or the pH is 5.5 or less. Based on this criterion, the on-site soils tested are not considered corrosive to steel reinforcement properly embedded within Portland cement concrete (PCC).

Table 19.3.1.1 – Exposure Categories and Classes, of American Concrete Institute (ACI) 318-19, Section 19.3 – Concrete Design and Durability Requirements, as referenced in Section 1904.1 of the 2019 CBC, indicates the severity of sulfate exposure for the sample tested is Exposure Class S0 (water-soluble sulfate concentration in contact with concrete is low and injurious sulfate attack is not a concern). The project structural engineer should evaluate the requirements of ACI 318-19 and determine their applicability to the site.

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Wallace-Kuhl & Associates are not corrosion engineers. Therefore, if it is desired to further define the soil corrosion potential at the site, a corrosion engineer should be consulted.

Groundwater Conditions and Seasonal Moisture

Based on our subsurface exploration and review of historical groundwater information in the vicinity of the site, the permanent groundwater table is anticipated to be deeper than 50 feet below existing site grades and should not be a significant factor in site development. However, perched groundwater may be encountered in excavations. Perched water may be present due to rainfall, surface run-off, or seepage from perched groundwater sources, especially if construction begins in the winter and early spring months. Perched water may also be encountered in excavations during earthwork and utility construction due to the relatively impermeable geologic materials at the site.

The geologic conditions at the site include hard, cemented cobble conglomerates of the Mehrten Formation. These geologic materials do not readily allow water to pass through them. As a result of the impermeable nature of these materials, it is not unusual to observe perched water above them either at the surface or in shallow excavations. Seepage can also occur through sloping ground that exposes these materials as a consequence of grading.

Perched water (seepage) is the result of the inability of rain or irrigation water to vertically migrate through the impermeable geologic materials at the site. Rain and irrigation water infiltrating the surface through topsoil, or permeable engineered fill, typically migrates downward to underlying dense and cemented materials, and then laterally or down-slope on top of the impermeable cemented materials. We emphasize that perched water does not represent the groundwater table, as the groundwater table is anticipated to be deeper than 50 feet below the general surface elevations at the site. If perched water is encountered during construction, standard sump pit and pumping procedures should be adequate to control localized perched water.

Although perched water and seepage can be controlled by appropriate drainage improvements constructed during landscaping, it is typically not possible to intercept all subsurface water in areas that are underlain by impermeable geologic materials such as those at this site.

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Percolation Tests

On July 13, 2021, two percolation tests (P1 and P2) were performed at the approximate locations indicated in Figure 2. The percolation test pipe extended to depths ranging from about four to 4½ feet below the existing ground surface.

After a 24 hour period after drilling activities, the holes were re-filled and the percolation tests were performed by taking water level readings at various intervals. The readings were measured as a distance from the top of the percolation pipe to water surface. The drop in water was measured every 30 minutes. Percolation rates were calculated for each time interval.

The results of the tests are provided in the table below. These field test results are not intended to be design rates. They represent the results of our tests, at the depth and location indicated. The design rate should be determined by the drainage design engineer who should apply an appropriate factor of safety.

TABLE 3a:
PERCOLATION TEST LOCATION P1
Diameter: 6 inches; Depth: 4½ feet

Elapsed Time (minutes)	Water Depth Initial (inches)	Water Depth Finish (inches)	Incremental Drop (inches)	Total Drop (inches)	Incremental Percolation Rate (in/hour)	Cumulative Percolation Rate (in/hour)
30	6¾*	$8^{3}/_{16}$	1.474	1.438	2.875	2.875
30	$8^{3}/_{16}$	$9^{3}/_{16}$	1.000	2.438	2.00	2.4375
30	$9^{3}/_{16}$	10⅛	0.938	3.375	1.875	2.25
30	10⅛	$12^{15}/_{16}$	2.813	6.188	5.625	3.09375
30	$12^{15}/_{16}$	$14^{7}/_{16}$	1.500	7.688	3.00	3.075
30	$14^{7}/_{16}$	15½	1.0625	8.750	2.125	2.9167
30	15½	$16^{7}/_{16}$	0.938	9.688	1.875	2.768
30	$16^{7}/_{16}$	17¼	0.813	10.500	1.625	2.625

* Water added to percolation test hole prior to reading.

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TABLE 3b:
PERCOLATION TEST LOCATION P2
Diameter: 6 inches; Depth: 4 feet

Elapsed Time (minutes)	Water Depth Initial (inches)	Water Depth Final (inches)	Incremental Drop (inches)	Total Drop (inches)	Incremental Percolation Rate (in/hour)	Cumulative Percolation Rate (in/hour)
30	6⅞	6⅞	0	0	0	0
30	6⅞	$6^{15}/_{16}$	0.0625	0.0625	0.125	0.0625
30	$6^{15}/_{16}$	7	0.0625	0.125	0.125	0.083333
30	7	7⅛	0.125	0.250	0.250	0.125
30	7⅛	$7^{5}/_{16}$	0.1875	0.4375	0.375	0.175
30	$7^{5}/_{16}$	$7^{7}/_{16}$	0.125	0.5625	0.250	0.1875
30	$7^{7}/_{16}$	$7^{9}/_{16}$	0.125	0.6875	0.250	0.196429
30	$7^{9}/_{16}$	$7^{11}/_{16}$	0.125	0.8125	0.250	0.203125

* Water added to percolation test hole prior to reading.

Percolation Characteristics of the Subgrade Soils and Conclusions

Based on the percolation testing, our experience, and the soil conditions encountered at the borings and the percolation test locations, it is our opinion that a percolation rate of 0.20 inches per hour is appropriate for evaluation of percolation within the upper four feet of native soil at the site. Percolation test P1 is likely located in an area that was previously covered in undocumented fill and is not indicative of the variably cemented native soils anticipated at the site.

The drainage system should be designed by an experienced and qualified engineer familiar with the applicable regulatory agencies requirements. An appropriate factor of safety should be included in the overall design.

Infiltration Characteristics of the Subgrade Soils and Conclusions

Two infiltration tests (I1 and I2) were performed at the approximate locations indicated on Figure 2. The infiltration tests extended about one foot below the surrounding ground surface and were performed in general accordance with American Society of Testing and Materials (ASTM) D3385 to determine the infiltration rate of the near-surface subgrade soils. The testing rings were carefully pushed into the exposed soils and the rings were then carefully filled with clean, potable water. Water level measurements were obtained from both rings at 15- to 30-minute intervals.

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The soil conditions present at the infiltration test locations generally consisted of variably cemented silts, which is consistent with the soil conditions encountered in our borings. Infiltration rates of about one to two inches per hour were obtained during the tests. The cemented near-surface soils encountered at the boring and infiltration test locations at the site are considered to have very low infiltration characteristics.

Based on the infiltration testing, our experience, and the soil conditions encountered at the test pit and infiltration test locations, we recommend a surface infiltration rate of one inch per hour at the site.

RECOMMENDATIONS

General

Based on existing site topography and following removal of the existing soil stockpiles, we anticipate excavations and fills on the order of about one to five feet for development of the planned community park. The recommendations contained in this report are based upon this assumption.

The recommendations presented below are appropriate for typical construction in the late spring through fall months. The on-site soils likely will be saturated by rainfall in the winter and spring months, and will not be compactable without drying by aeration or the addition of lime (or a similar product) to dry the soils. Should the construction schedule require work to continue during the wet months, additional recommendations can be provided.

Site preparation should be accomplished in accordance with the provisions of this report and the appended specifications. A representative of the Geotechnical Engineer should be present during all earthwork operations to evaluate compliance with the recommendations and the guide specifications included in this report. The Geotechnical Engineer of Record referenced herein should be considered the Geotechnical Engineer that is retained to provide geotechnical engineering observation and testing services during construction.

Site Clearing

Prior to grading, the proposed improvement areas should be cleared of the existing stockpile(s), surface and sub-surface debris, rubble, rubbish, and any other deleterious materials to expose native, undisturbed soils. Where practical, the clearing should extend a minimum of five feet

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beyond the limits of the proposed structural areas of the site. Existing underground utilities within the construction areas (if any), including associated backfill materials, should be completely removed and/or rerouted as necessary.

Soil stockpiles must be completely removed to expose firm undisturbed soil, as determined by the Geotechnical Engineer's representative. The stockpiled soil may be used as engineered fill, provided it is free of significant organics, rubble, rubbish, or other unsuitable materials. Clay soil generated from the stockpiles should not be used within the upper one foot structural areas.

If excavated asphalt concrete pavement or concrete flatwork is to be reused as engineered fill, it should be pulverized to fragments less than three inches in largest dimension and contain sufficient intermediate sized particles to form a compactable mixture and must be approved by the Geotechnical Engineer and City before placement.

We anticipate the soils exposed after removal of the existing pavements will be at elevated moisture contents, which may not allow the proper compaction to be achieved. It may be necessary to allow the soils beneath the existing pavements to dry for a period of time after the pavements are removed.

Existing surface organics within construction areas should be stripped from the site. Strippings maybe stockpiled for later use or disposed of offsite. Debris from the stripping should not be used in general fill construction areas supporting structures or pavements. With the prior approval of the Geotechnical Engineer, strippings may be used in landscape areas, provided they are kept at least five feet from the building pad and other surface improvements, moisture conditioned, and compacted. Discing of the organics into the surface soils may be a suitable alternate to stripping, depending on the condition and quantity of the organics at the time of grading. The decision to utilize discing in lieu of stripping should be made by the Geotechnical Engineer, or his representative, at the time of earthwork construction. Discing operations, if approved, should be observed by the Geotechnical Engineer, or his representative, and be continuous until the organics are adequately mixed into the surface soils to provide a compactable mixture of soil containing minor amounts of organic matter. Pockets or concentrations of organics will not be allowed.

Removal of vegetation should include rootballs and roots larger than ½-inch in diameter associated with larger weeds/brush and previously existing trees. Adequate removal of debris and tree roots may require laborers and handpicking to clear the subgrade soils to the satisfaction of our on-site representative.

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Depressions resulting from site clearing operations, as well as any loose, saturated, or organically contaminated soils, as identified by the Geotechnical Engineer's representative, should be cleaned out to firm, undisturbed soils and properly backfilled with engineered fill in accordance with the recommendations in this report. We consider it essential that the Geotechnical Engineer's representative be present during site clearing activities to verify the adequate removal of deleterious materials described above, and observe and evaluate the condition of the existing on-site materials.

Undocumented Fill Removal and Replacement

Undocumented fills, such as those encountered at boring D3 and D6, are considered unsuitable for support of structural improvements and should be excavated to firm, undisturbed native soils, as determined by the Geotechnical Engineer's representative.

Fills depths varied from about two to four feet below the existing ground surface, where encountered, at the boring locations. The lateral extent of the undocumented fills is anticipated to vary and undocumented fills may be encountered throughout the site due to previous site activities.

Fill depths are anticipated to vary across the site. Therefore, we recommend the contract documents include a unit price per cubic yard for the removal and replacement of undocumented fills. For bidding purposes, we suggest fill depths on the order of about three feet below the existing ground surface.

Where encountered, undocumented fills should be removed to expose undisturbed native soils. Where practical, the removal should extend a minimum of five feet beyond the limits of the proposed structural areas of the site.

Excavations and depressions from fill removal should be prepared as noted in the following Subgrade Preparation section and restored to grade with engineered fill placed in accordance with these recommendations.

Subgrade Preparation

Following the site clearing and undocumented fill removal operations, structural areas designated to receive fill, achieved by excavation or remain at grade, should be scarified to a depth of at least 12 inches, thoroughly moisture conditioned to at least the optimum moisture content and uniformly compacted to at least 90 percent relative compaction. Relative

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compaction should be based on the maximum dry density as determined in accordance with the American Society of Testing and Materials (ASTM) D1557 test method. Rocky materials should be compacted by at least three complete coverage's with a heavy, self-propelled, sheepsfoot compactor (such as a Caterpillar 825 or equivalent) and to the satisfaction of the Geotechnical Engineer's representative. One complete coverage is defined as the effort necessary to compact each square foot of soil.

In areas where hardpan is exposed and verified by the Geotechnical Engineer's representative at the final ground surface level, scarification and recompaction is not required.

Drainage ditches should be cleaned of organics, saturated and unstable soils to expose firm, stable native materials, and widened if necessary to accommodate the compaction equipment. Engineered fill should be placed in lifts as recommended in the Engineered Fill section of this report. Depending on the depth of the drainage ditch relative to the final ground surface, benching may be required during engineered fill placement. The benching requirements should be determined at the time of construction by the Geotechnical Engineer's representative. In general, benching will be required where fill differential is in excess of five feet.

Site preparation operations should extend at least two feet beyond structural areas of the site, where practical. Compaction should be performed using a heavy, self-propelled, sheepsfoot compactor (such as a Caterpillar 825 or equivalent) and be performed in the presence of the Geotechnical Engineer's representative. Difficulty in achieving subgrade compaction may be an indication of loose, soft or unstable soil conditions associated with prior site use. If these conditions exist, the loose, soft or unstable materials should be excavated to firm and stable soil conditions. The resulting excavations should be backfilled with engineered fill in accordance with the recommendations of this report.

Site preparation should be accomplished in accordance with the provisions of this report and the appended G*uide Earthwork Specifications* (Appendix B). The Geotechnical Engineer's representative should be present during site preparation and grading operations to evaluate compliance with the above recommendations and the guide specifications.

Engineered Fill Construction

The on-site soils encountered in our explorations are considered suitable for use as engineered fill provided they are at a workable moisture content, and do not contain rubbish, rubble, deleterious debris and organic concentrations.

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Rocky materials may also be used as engineered fill if they do not contain rubbish, rubble, deleterious debris and organic concentrations. Excessive concentrations of rocks should be avoided, as determined the Geotechnical Engineer's representative. Rocks should be spread and thoroughly mixed with soils to reduce the chances of voids being created within fill. Effort should be made to break down any rocks larger than 12 inches into smaller pieces during earthwork operations before use as engineered fill material. It may not be possible to eliminate all rocks larger than 12 inches from fill material without screening the fill material prior to placement; therefore, we recommend that rocks exceeding 12 inches in diameter be avoided in the upper two feet of fill. Rocks between 12 and 24 inches in diameter (large rocks) that cannot be reasonably broken down to less than 12-inch size particles may be selectively placed within the deeper portions of thick engineered fills, as determined by the Geotechnical Engineer's field representative. Large rocks used as engineered fill material should be separated to allow proper compaction around and over the rocks. Soils placed around large rock should be uniformly moisture conditioned and compacted to the satisfaction of the Geotechnical Engineer's representative in accordance with the recommendations presented in this report. Large rocks should be avoided in areas where later excavation is likely to occur, such as underground utilities. Rocks exceeding 24 inches in diameter should be broken into smaller pieces prior to use as fill, or removed from the construction area.

Imported fill materials, if required, should be well-graded, granular, compactable soils with an Expansion Index of 20 or less when tested in accordance with ASTM D4829, not contain particles greater than three inches in maximum dimension, and have corrosion characteristics within acceptable limits. The Geotechnical Engineer must approve import material before being transported to the project site. In addition, we recommend that the contractor supply certification for any imported fill materials that designates the fill materials do not contain known contaminants per Department of Toxic Substances Control's guidelines for clean fill.

Engineered fill consisting of native or import materials, with particle sizes that are predominantly less than ¾-inch, should be placed in horizontal lifts not exceeding six inches in compacted thickness and uniformly compacted to 90 percent the maximum dry density. Maximum dry densities shall be determined in accordance with ASTM D1557. Engineered fill should be thoroughly moisture conditioned to at least the optimum moisture content for granular/silty soils or at least two percent above the optimum moisture content for clay soils, and maintained in that condition.

A procedural compaction specification is recommended for fill materials containing high percentages of gravel, cobbles and rock fragments, as determined by the Geotechnical Engineer's representative. Fill materials containing high percentages of gravel and/or rock

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fragments should be placed in horizontal lifts about 12 inches in thickness, and thoroughly moisture conditioned to the full depth of each lift. Compaction of rocky fill materials should be achieved by a minimum of three complete coverages with a heavy, self-propelled, sheepsfoot compactor (such as a Caterpillar 825 or equivalent) and to the satisfaction of the Geotechnical Engineer's on-site representative. One complete coverage is defined as the process necessary to assure that every square foot of subgrade has been traversed and compacted by the compaction equipment. Large rocks that cannot be properly incorporated into the engineered fill should be removed from the fill.

The upper six inches of final soil subgrade for pavement areas achieved by fill, excavation, or left at existing grade, should be scarified, moisture conditioned, and compacted to at least 95 percent of the maximum dry density if the material is predominately less than ¾-inch, or by at least five complete coverages with a Caterpillar 825 compactor (or equivalent) if the subgrade materials are rocky. One complete coverage is defined as the process necessary to assure that every square foot of subgrade has been traversed and compacted by the compaction equipment. Final pavement subgrade processing and compaction should be performed after completion of underground utilities and must be stable under construction traffic prior to aggregate base placement.

In areas where hardpan is exposed and verified by the Geotechnical Engineer's representative at the final ground surface level, scarification and recompaction is not required.

Engineered fill placement should be accomplished in accordance with the recommendations of this section and the appended *Guide Earthwork Specifications* (Appendix B). We recommend the Geotechnical Engineer's representative be present during engineered fill placement operations to observe and test the fill to verify compliance with the recommendations of this report and the job specifications.

Utility Trench Backfill

Trenching for underground utilities will encounter variable materials consisting of loose to very dense alluvial soils, cemented cobble conglomerates, and engineered fill materials. Excavation conditions are described in the Excavation Conditions section of this report. Utility trenches deeper than five feet in depth that will be entered by workers should be sloped or shored in accordance with Cal/OSHA standards.

Bedding and initial backfill should conform to the City of Roseville standards and the requirements of the pipe manufacturers. Utility trench backfill materials may consist of on-site

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soils or approved granular import material. Utility trench backfill within structural areas should be mechanically compacted as engineered fill in accordance with the recommendations provided below. Native soil should be used as trench backfill within building pads to help minimize soil moisture variations beneath structures. Native soil backfill should extend at least five feet horizontally beyond perimeter foundation lines.

If utility trench backfill consist of soils with particle sizes that are predominately less than ¾-inch, the backfill material should be placed in maximum six-inch lifts, moisture conditioned to at least the optimum moisture content, and compacted to at least 90 percent of the ASTM D1557 maximum dry density. If the utility trench backfill consist of rocky backfill, the backfill material should be placed in maximum 12-inch lifts, moisture conditioned (as needed), and compacted using mechanical compaction methods. The lift thickness and number of passes to achieve proper compaction in rocky material will depend on rock size and the type of compaction equipment used.

Permeable materials used in utility trenches will transmit water due to the impermeable nature of the cemented geologic materials at the site. Where water migration through permeable utility trench materials is deemed detrimental, a trench dam consisting of concrete, controlled density fill or other suitable material should be constructed in the utility trench to inhibit the flow of water through the permeable materials. The trench dam should be at least one foot thick, extend at least six inches below the bottom of the trench, and extend at least 12 inches into the sides of the trench. The top of the trench dam should be about one foot above the top of any permeable material used in the trenches, such as bedding, shading or initial backfill material.

We recommend underground utility trenches that are aligned parallel with foundations be located at least three feet from the outer edge of foundations, wherever possible. As a general rule, trenches should not encroach into the zone extending outward at a one horizontal to one vertical (1H:1V) inclination below the bottom of foundations. Additionally, trenches parallel to foundations should not remain open longer than 72 hours to prevent drying and potential sloughing. The intent of these recommendations is to prevent loss of both lateral and vertical support of foundations, resulting in possible settlement.

Foundations Design

The proposed building and associated structures may be supported upon continuous and/or isolated spread foundations. We understand the light poles will be supported on drilled, cast-in-place reinforced concrete pier (drilled pier) foundations. Recommendations for both continuous and/or isolated spread foundations and drilled, cast-in-place reinforced concrete pier

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foundations are provided below. Note that drilling to construct drilled piers will be relatively difficult due to the variably cemented near-surface soils and relatively dense cobble/boulder conglomerate underlying the site.

Conventional Shallow Foundations

The proposed building and associated structures may be supported upon continuous and/or isolated spread foundations embedded at least 12 inches below lowest adjacent soil grade, provided the subgrade has been prepared as noted in the Subgrade Preparation section of this report. Lowest soil grade is defined as either the adjacent exterior soil grade or the soil subgrade beneath the building, whichever is lower. Continuous foundations should maintain a minimum width of 12 inches and isolated spread foundations should be at least 24 inches in plan dimension. Foundations so established may be sized for maximum net allowable soil bearing pressures 4000 psf for dead plus live loads, or 5333 psf for total loads, including the short-term effects of seismic or wind forces. The weight of the foundation concrete extending below lowest adjacent soil grade may be disregarded in sizing computations.

We recommend that all foundations be adequately reinforced to provide structural continuity, mitigate cracking and permit spanning of local soil irregularities. The structural engineer should determine final foundation reinforcing requirements.

Resistance to lateral foundation displacement may be computed using an allowable friction factor of 0.30, which may be multiplied by the effective vertical load on each foundation. Additional lateral resistance may be computed using an allowable passive earth pressure equivalent to a fluid pressure of 300 psf per foot of depth, acting against the vertical projection of the foundation. These two modes of resistance should not be added unless the frictional component is reduced by 50 percent since full mobilization of the passive resistance requires some horizontal movement, effectively reducing the frictional resistance.

We recommend that all foundation excavations be observed by the Geotechnical Engineer's representative prior to placement of reinforcement and concrete to verify firm bearing materials are exposed.

Drilled, Cast-in-Place Reinforced Concrete Piers (Drilled Piers)

Light poles and other ancillary structures may be supported on drilled, cast-in-place reinforced concrete piers extending at least five feet below lowest adjacent soil grade, provided subgrade has been prepared as noted in the Subgrade Preparation section of this report. Piers should

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have a minimum shaft diameter of at least 18 inches. Drilled piers may be sized utilizing a maximum allowable vertical bearing capacity of 5000 psf or an allowable skin friction of 300 psf for dead plus live loads, which may be applied over the surface of the pier. Those values may be increased by one-third to include short-term wind or seismic forces. The weight of foundation concrete below grade may be disregarded in sizing computations.

Uplift resistance of pier foundations may be computed using the following resisting forces, where applicable: 1) weight of the pier concrete (150 pounds per cubic foot) and, 2) the allowable skin friction of 300 psf applied over the shaft area of the pier. Increased uplift resistance can be achieved by increasing the diameter of the pier or increasing the depth.

The upper 12 inches of skin friction should be neglected for uplift and vertical bearing unless the pier is completely surrounded by slab concrete or pavements for a distance of at least three feet from the edge of the foundation pier.

Sizing of drilled piers to resist lateral loads can be evaluated using Section 1807.1 of the 2019 CBC. A value of 300 pcf for lateral bearing as defined in Table 1806.2 of the CBC may be used for the coefficients S_1 and S_3 for the non-constrained and constrained conditions, respectively. Per Table 1804.2 of the 2019 CBC, an increase of 1/3 is permitted when using the alternate load combinations in Section 1605.3.2 that include wind or earthquake loads. The upper 12 inches of the subgrade should be neglected for the non-constrained condition.

The bottom of the pier excavations should be free of loose or disturbed soils prior to placement of the concrete. Cleaning of the bearing surface should be verified by the Geotechnical Engineer's representative prior to concrete placement. The structural engineer should determine the necessary drilled pier reinforcement, if needed. Reinforcement and concrete should be placed in the pier excavations as soon as possible after excavation is completed to minimize the chances of sidewall caving into the excavations. Although we do not anticipate excessive sloughing of the sidewalls during pier construction, we recommend that the pier contractor be prepared to case the drilled pier holes if conditions require.

Interior Floor Slab Support

Interior concrete slab-on-grade floors can be supported upon the soil subgrade prepared in accordance with the recommendations in this report and maintained in that condition (at least the optimum moisture content). Slabs-on-grade should be at least four inches thick, and final thickness, reinforcement and joint spacing should be determined by the slab designer and/or the structural engineer. Proper and consistent location of the reinforcement near mid-slab is

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essential to its performance. The risk of uncontrolled shrinkage cracking is increased if the reinforcement is not properly located within the slab.

Floor slabs may be underlain by a layer of free-draining crushed rock, serving as a deterrent to migration of capillary moisture. The crushed rock layer should be at least four inches thick and graded such that 100 percent passes a one-inch sieve and no appreciable amount passes a No. 4 sieve. Additional moisture protection may be provided by placing a vapor retarder membrane (at least 10-mils thick) directly over the crushed rock. The membrane should meet or exceed the minimum specifications as outlined in ASTM E1745, and be installed in strict conformance with the manufacturer's recommendations.

Floor slab construction over the past 30 years or more has included placement of a thin layer of sand over the vapor retarder membrane. The intent of the sand is to aid in the proper curing of the slab concrete. However, recent debate over excessive moisture vapor emissions from floor slabs includes concern for water trapped within the sand. As a consequence, we consider the use of the sand layer to be optional and is not required from a geotechnical perspective. The concrete curing benefits should be weighed against efforts to reduce slab moisture vapor transmission.

The recommendations presented above are intended to mitigate any significant soils-related cracking of the slab-on-grade floors. More important to the performance and appearance of a Portland cement concrete slab is the quality of the concrete, the workmanship of the concrete contractor, the curing techniques utilized, and the spacing of control joints.

Floor Slab Moisture Penetration Resistance

It is considered likely that floor slab subgrade soils will become saturated at some time during the life of structures especially when slabs are constructed during the wet season or when constantly wet ground or poor drainage conditions exist adjacent to structures. For this reason, it should be assumed that interior slabs, particularly those intended for moisture-sensitive floor coverings or materials, require protection against moisture or moisture vapor penetration. Standard practice includes rock and membrane discussed above. However, the rock and membrane offer only a limited, first line of defense against soil-related moisture. Recommendations contained in this report concerning foundation and floor slab design are presented as *minimum* requirements only from the geotechnical engineering standpoint.

It is emphasized that the use of sub-slab gravel and vapor retarder membrane will not "moisture proof" the slab, nor does it assure that slab moisture transmission levels will prevent damage to

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floor coverings or other building components. They simply offer a first line of defense against soil related moisture. If increased protection against moisture vapor penetration of slabs is desired, a concrete moisture protection specialist should be consulted. The design team should consider all available measures for slab moisture protection. It is commonly accepted that maintaining the lowest practical water-cement ratio in the slab concrete is one of the most effective ways to reduce future moisture vapor penetration of the completed slab.

Retaining Walls

The retaining wall recommendations provided below, if required, are applicable for retaining walls less than five feet in height and not structurally connected to the proposed structures.

Retaining walls may be supported on a continuous foundation extending at least 18 inches into firm native ground or engineered fill constructed in accordance with the recommendation in this report. Continuous footings for retaining walls may be designed based upon the recommendations contained in the Foundation Design section of this report.

Retaining walls that will be allowed to slightly rotate about their base (unrestrained at the top or sides) should be capable of resisting "active" lateral earth pressure equal to an equivalent fluid pressure of 45 psf per foot of wall backfill for horizontal backfill and fully drained conditions. Retaining walls that are fixed at the top should be capable of resisting "at-rest" lateral earth pressure equal to an equivalent fluid pressure of 65 psf per foot of wall backfill, again assuming horizontal backfill and fully drained conditions. Walls supporting sloping backfill, up to a 2H:1V inclination, should be designed adding an additional 20 psf per foot of wall to the pressures presented above.

The seismic increment of earth pressure may be neglected if the maximum ground acceleration at the site is 0.4 g or less. Our analysis indicates the maximum ground acceleration will be about 0.186 g at the site; therefore, the seismic increment of lateral earth pressure may be neglected, and retaining walls associated with loading docks may be designed using the lateral earth pressures presented above for fully drained conditions.

Appropriate set-backs for structures constructed behind the walls should be maintained so that such structures do not surcharge the walls. If retaining walls will experience additional surcharge loading from other structures or vehicles, surcharge loading should be evaluated by the wall designer on a case-by-case basis.

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Backfill behind retaining walls should be fully drained to prevent the build-up of hydrostatic pressures behind the wall. Retaining walls should be provided with a drainage blanket of Class 2 permeable material, Caltrans Specification Section 68-2.02F(3), at least one foot wide extending from the base of wall to within one foot of the top of the wall. The top foot above the drainage layer should consist of compacted on-site materials, unless covered by a concrete slab or pavement. Weep holes or perforated rigid pipe, as appropriate, should be provided at the base of the wall to collect accumulated water. Drainpipes, if used, should slope to discharge at no less than a one percent fall to suitable drainage facilities. Open-graded ½- to ¾-inch crushed rock may be used in lieu of the Class 2 permeable material, if the rock and drain pipe are completely enveloped in an approved non-woven, geotextile filter fabric. Alternatively, proprietary drainage products, such a Miradrain 6200 or equivalent, may be used in lieu of the crushed rock drainage blanket.

Structural backfill materials for retaining walls (other than the drainage layer) should consist of non-expansive (Expansion Index less than 20), compactable granular material that does not contain significant quantities of rubbish, rubble, organics and rock over four inches in size. Clays, pea gravel and/or crushed rock should not be used for wall backfill. Structural backfill should be placed in lifts not exceeding eight inches in compacted thickness, and should be mechanically compacted to at least 90 percent relative compaction.

Exterior Flatwork

Soil subgrades supporting exterior concrete flatwork (i.e., sidewalks, patios, etc.) should be brought to at least the optimum moisture content and uniformly compacted prior to the placement of the concrete. Proper moisture conditioning of the subgrade soils is considered important to the performance of exterior flatwork. Expansion joints should be provided to allow for minor vertical movement of the flatwork. Exterior flatwork should be constructed independent of the perimeter building foundations and isolated column foundations by the placement of a layer of felt material between the flatwork and the foundation.

Exterior flatwork concrete should be at least four inches thick and consideration should be given to thickening the outside edge of the slabs to twice the slab thickness. Flatwork reinforcement for crack control, if desired, should be determined by the structural engineer. Exterior flatwork should be underlain by at least four inches of aggregate base and/or subbase compacted to at least 90 percent relative compaction.

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Practices recommended by the Portland Cement Association (PCA) for proper placement, curing, joint depth and spacing, construction, and placement of concrete should be followed during exterior concrete flatwork construction.

Areas adjacent to new exterior flatwork should be landscaped to maintain more uniform soil moisture conditions adjacent to and beneath flatwork. We recommend final landscaping plans not allow fallow ground adjacent to exterior concrete flatwork.

Pavement Design

Pavement design analysis has been performed based upon the procedures contained within the 6th Edition of the *California Highway Design Manual* utilizing design Traffic Indices considered appropriate for the planned park development, and the results of our laboratory testing (Figure A7). An R-value of 25 was used for the design of on-site pavements. The project civil engineer should determine the appropriate traffic index based on anticipated traffic conditions. Additional pavement sections can be provided upon request.

TABLE 4
PAVEMENT DESIGN ALTERNATIVES
R-Value = 25

Traffic Index (TI)	Traffic Condition	Asphalt Concrete (inches)	Class 2 Aggregate Base (inches)
3.5	Hard-courts	2½*	4
4.5	Automobile Parking Only	2½*	6
6.0	Driveways, Fire Lanes, Drive Aisles, etc.	2½	11
		3½*	9
7.0	Moderate to Heavy Traffic and Bus Lanes	3	13
		4*	11

* Asphalt thickness contains Caltrans Factor of Safety.

We emphasize that the performance of a pavement is critically dependent upon uniform and adequate compaction of the soil subgrade, as well as all engineered fill and utility trench backfill within the limits of the pavement. The upper six inches of pavement subgrades should be compacted to at least 95 percent relative compaction at a moisture content of at least the

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optimum moisture content. We recommend that the final subgrade compaction be achieved following completion of underground utility line trench backfill, including electrical and irrigation systems, and within 48 hours prior to the placement of the aggregate base layer. Aggregate base utilized within the pavement section should be compacted to at least 95 percent relative compaction.

In the summer heat, high axle loads coupled with shear stresses induced by sharply turning tire movements can lead to failure in asphalt concrete pavements. Therefore, we recommend that consideration be given to using a PCC section in areas subjected to concentrated heavy wheel loading, such as entry driveways, bus maneuvering areas, and in front of trash enclosures. As a minimum, the concrete section subgrades should consist of at least six inches of PCC underlain by at least six inches of Class 2 aggregate base compacted to not less than 95 percent relative compaction. Construction of PCC pavements should be performed in accordance with applicable ACI or Portland Cement Association (PCA) standards. Portland cement concrete utilized in pavements should attain a compressive strength of at least 3500 pounds per square inch (psi) at 28 days.

Consideration should be given to using full-depth curbs between landscaped areas and pavements to serve as a cut off for water that could migrate into the pavement base materials or subgrade soils. Geotextile water barriers also could be used to prevent migration of water into pavement base materials, if extruded curbs are used. Proprietary geotextile moisture barriers and curb details should be reviewed and approved by our office prior to construction. Weep holes are recommended in parking lot drop inlets to allow accumulating water moving through the aggregate base to drain from beneath the pavements.

Earthwork construction within the limits of the pavements should be performed in accordance with the recommendation contained within this report. Materials used for pavement construction should conform to the appropriate sections of the *Caltrans Standard Specifications* and the City of Roseville standards, latest editions.

Site Drainage

Final site grading should be accomplished to provide positive drainage of surface water away from structures and prevent ponding of water adjacent to foundations, slabs and pavements. The grades adjacent to structures should be sloped away from the foundations at a minimum two percent slope for a distance of at least five feet, where possible. Roof gutter downspouts and surface drains should drain onto pavements or be connected to rigid, non-perforated piping

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directed to an appropriate drainage point away from structures. Ponding of surface water should not be allowed adjacent to structures or pavements.

Geotechnical Engineering Construction Observation Services

Site preparation should be accomplished in accordance with the recommendations of this report. Representatives of the Geotechnical Engineer should be present during site preparation and all grading operations to observe and test the fill to verify compliance with our recommendations and the job specifications. Testing frequency will depend on how the site is graded and should be determined during the rough grading operations. These services are beyond the scope of work authorized for this investigation.

In the event that Wallace-Kuhl & Associates is not retained to provide geotechnical engineering observation and testing services during construction, the Geotechnical Engineer retained to provide these services should indicate in writing that they agree with the recommendations of this report, or prepare supplemental recommendations as necessary. A final report by the Geotechnical Engineer providing construction testing services should be prepared upon completion of the project.

LIMITATIONS

Our recommendations are based upon the information provided regarding the proposed project, combined with our analysis of site conditions revealed by the field exploration and laboratory testing programs. We have used our engineering judgment based upon the information provided and the data generated from our investigation. This report has been prepared in substantial compliance with generally accepted geotechnical engineering practices that exist in the area of the project at the time the report was prepared. No warranty, either express or implied, is provided.

If the proposed construction is modified or re-sited; or, if it is found during construction that subsurface conditions differ from those we encountered at the boring locations, we should be afforded the opportunity to review the new information or changed conditions to determine if our conclusions and recommendations must be modified.

We emphasize that this report is applicable only to the proposed construction and the investigated site, and should not be utilized for construction on any other site.

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The conclusions and recommendations of this report are considered valid for a period of three years. If design is not completed and construction has not started within three years of the date of this report, the report must be reviewed and updated if necessary.

Wallace - Kuhl & Associates





Mathew S. Moyneur
Senior Engineer

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Spatial Data provided by Esri, NOAA, and USGS.
Projection: NAD 1983 2011 StatePlane California II FIPS 0402 Ft US

N

0 1,000 2,000
Feet

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VICINITY MAP

GIBSON PARK

Roseville, California

FIGURE	1
DRAWN BY	RWO
CHECKED BY	JEL
PROJECT MGR	MSM
DATE	08/2021
WKA NO.	13232.01P



- Approximate Double Ring Infiltration Test Location
- Approximate Percolation Test Location
- Approximate Soil Boring Location
- Approximate Site Boundary

Aerial imagery provided by Esri.
Projection: NAD 1983 2011 StatePlane California II FIPS 0402 Ft US

N

0 100 200
Feet

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SITE PLAN

GIBSON PARK

Roseville, California

FIGURE	2
DRAWN BY	RWO
CHECKED BY	JEL
PROJECT MGR	MSM
DATE	08/2021
WKA NO.	13232.01P

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Project: Gibson Park
Project Location: Roseville, California
WKA Number: 13232.01P

LOG OF SOIL BORING D1

Sheet 1 of 1

Date(s) Drilled	7/12/21	Logged By	JEL	Checked By	MSM
Drilling Method	Solid Flight Auger	Drilling Contractor	V&W Drilling	Total Depth of Drill Hole	7.5 feet
Drill Rig Type	CME 75	Diameter(s) of Hole, inches	6	Approx. Surface Elevation, ft MSL	
Groundwater Depth [Elevation], feet	N/A	Sampling Method(s)	2.0" Modified California with 6-inch sleeve	Drill Hole Backfill	Neat Cement
Remarks	Bulk sample collected at 0'-3' below existing site grades.			Driving Method and Drop	140lb auto. hammer with 30" drop

ELEVATION, feet	DEPTH, feet	GRAPHIC LOG	ENGINEERING CLASSIFICATION AND DESCRIPTION	SAMPLE DATA: SAMPLE	SAMPLE NUMBER	NUMBER OF BLOWS	TEST DATA: MOISTURE CONTENT, %	DRY UNIT WEIGHT, pcf	ADDITIONAL TESTS
			Brown, moist, very dense, variably cemented SILT (ML) with clay and sand; fine to medium grained sand, trace gravel						
					D1-1I	50/5"			
	5								
					D1-2I	50/3"			
			Increased sand content						
			Auger refusal at the maximum explored depth of 7.5 feet below existing site grade. Groundwater was not encountered.						

BORING LOG 13232.01P - GIBSON PARK GER.GPJ WKA.GDT 8/25/21 5:25 PM

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FIGURE 3

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Project: Gibson Park
Project Location: Roseville, California
WKA Number: 13232.01P

LOG OF SOIL BORING D2

Sheet 1 of 1

Date(s) Drilled	7/12/21	Logged By	JEL	Checked By	MSM
Drilling Method	Solid Flight Auger	Drilling Contractor	V&W Drilling	Total Depth of Drill Hole	4.5 feet
Drill Rig Type	CME 75	Diameter(s) of Hole, inches	6	Approx. Surface Elevation, ft MSL	
Groundwater Depth [Elevation], feet	N/A	Sampling Method(s)	2.0" Modified California with 6-inch sleeve	Drill Hole Backfill	Neat Cement
Remarks	Bulk sample collected at 0'-4½' below existing site grades.			Driving Method and Drop	140lb auto. hammer with 30" drop

ELEVATION, feet	DEPTH, feet	GRAPHIC LOG	ENGINEERING CLASSIFICATION AND DESCRIPTION	SAMPLE DATA: SAMPLE	SAMPLE NUMBER	NUMBER OF BLOWS	TEST DATA: MOISTURE CONTENT, %	DRY UNIT WEIGHT, pcf	ADDITIONAL TESTS
			Light brown, moist, dense, variably cemented, sandy SILT (ML) with gravel; fine grained sand, well cemented, trace clay		D2-1I	41	7.5	90	
			Auger refusal at the maximum explored depth of 4.5 feet below existing site grade. Groundwater was not encountered.						

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FIGURE 4

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Project: Gibson Park
Project Location: Roseville, California
WKA Number: 13232.01P

LOG OF SOIL BORING D3

Sheet 1 of 1

Date(s) Drilled	7/12/21	Logged By	JEL	Checked By	MSM
Drilling Method	Solid Flight Auger	Drilling Contractor	V&W Drilling	Total Depth of Drill Hole	6.5 feet
Drill Rig Type	CME 75	Diameter(s) of Hole, inches	6	Approx. Surface Elevation, ft MSL	
Groundwater Depth [Elevation], feet	N/A	Sampling Method(s)	2.0" Modified California with 6-inch sleeve	Drill Hole Backfill	Neat Cement
Remarks				Driving Method and Drop	140lb auto. hammer with 30" drop

ELEVATION, feet	DEPTH, feet	GRAPHIC LOG	ENGINEERING CLASSIFICATION AND DESCRIPTION	SAMPLE DATA: SAMPLE	SAMPLE NUMBER	NUMBER OF BLOWS	TEST DATA: MOISTURE CONTENT, %	DRY UNIT WEIGHT, pcf	ADDITIONAL TESTS
			Light brown, moist, medium dense, sandy SILT (FILL); fine to medium grained sand, trace gravel		D3-1I	19	6.9	103	
	5		Light brown, moist, dense, variably cemented sandy SILT (ML) with trace gravel; fine to medium grained sand		D3-2				
			Auger refusal at the maximum explored depth of 6.5 feet below existing site grade. Groundwater was not encountered.						

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FIGURE 5

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Project: Gibson Park
Project Location: Roseville, California
WKA Number: 13232.01P

LOG OF SOIL BORING D4

Sheet 1 of 1

Date(s) Drilled	7/12/21	Logged By	JEL	Checked By	MSM
Drilling Method	Solid Flight Auger	Drilling Contractor	V&W Drilling	Total Depth of Drill Hole	7.0 feet
Drill Rig Type	CME 75	Diameter(s) of Hole, inches	6	Approx. Surface Elevation, ft MSL	
Groundwater Depth [Elevation], feet	N/A	Sampling Method(s)	2.0" Modified California with 6-inch sleeve	Drill Hole Backfill	Neat Cement
Remarks				Driving Method and Drop	140lb auto. hammer with 30" drop

ELEVATION, feet	DEPTH, feet	GRAPHIC LOG	ENGINEERING CLASSIFICATION AND DESCRIPTION	SAMPLE DATA: SAMPLE	SAMPLE NUMBER	NUMBER OF BLOWS	TEST DATA: MOISTURE CONTENT, %	DRY UNIT WEIGHT, pcf	ADDITIONAL TESTS
			Light brown, moist, variably cemented, sandy SILT (ML) with gravel		D4-1				
	5		Increased sand content		D4-2				
			Auger refusal at the maximum explored depth of 7 feet below existing site grade. Groundwater was not encountered.						

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FIGURE 6

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Project: Gibson Park
Project Location: Roseville, California
WKA Number: 13232.01P

LOG OF SOIL BORING D5

Sheet 1 of 1

Date(s) Drilled	7/12/21	Logged By	JEL	Checked By	MSM
Drilling Method	Solid Flight Auger	Drilling Contractor	V&W Drilling	Total Depth of Drill Hole	4.0 feet
Drill Rig Type	CME 75	Diameter(s) of Hole, inches	6	Approx. Surface Elevation, ft MSL	
Groundwater Depth [Elevation], feet	N/A	Sampling Method(s)	2.0" Modified California with 6-inch sleeve	Drill Hole Backfill	Neat Cement
Remarks	Bulk sample collected at 2½'-4' below existing site grades.			Driving Method and Drop	140lb auto. hammer with 30" drop

ELEVATION, feet	DEPTH, feet	GRAPHIC LOG	ENGINEERING CLASSIFICATION AND DESCRIPTION	SAMPLE DATA: SAMPLE	SAMPLE DATA: SAMPLE NUMBER	SAMPLE DATA: NUMBER OF BLOWS	TEST DATA: MOISTURE CONTENT, %	TEST DATA: DRY UNIT WEIGHT, pcf	TEST DATA: ADDITIONAL TESTS
			1½" Asphalt Concrete and 6" aggregate base						
			Brown, moist, variably cemented, sandy SILT (ML) with clay and trace gravel, fine grained sand						
				☒	D5-1				
			Auger refusal at the maximum explored depth of 4 feet below existing site grade. Groundwater was not encountered.						

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FIGURE 7

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Project: Gibson Park
Project Location: Roseville, California
WKA Number: 13232.01P

LOG OF SOIL BORING D6

Sheet 1 of 1

Date(s) Drilled	7/12/21	Logged By	JEL	Checked By	MSM
Drilling Method	Solid Flight Auger	Drilling Contractor	V&W Drilling	Total Depth of Drill Hole	4.5 feet
Drill Rig Type	CME 75	Diameter(s) of Hole, inches	6	Approx. Surface Elevation, ft MSL	
Groundwater Depth [Elevation], feet	N/A	Sampling Method(s)	2.0" Modified California with 6-inch sleeve	Drill Hole Backfill	Neat Cement
Remarks	Bulk sample collected at 2½'-4½' below existing site grades.			Driving Method and Drop	140lb auto. hammer with 30" drop

ELEVATION, feet	DEPTH, feet	GRAPHIC LOG	ENGINEERING CLASSIFICATION AND DESCRIPTION	SAMPLE DATA: SAMPLE	SAMPLE NUMBER	NUMBER OF BLOWS	TEST DATA: MOISTURE CONTENT, %	DRY UNIT WEIGHT, pcf	ADDITIONAL TESTS
			1½" Asphalt Concrete and 8" aggregate base						
			Brown, moist, SILT (FILL) with sand; trace gravel, fine grained sand						
			Brown, moist, very dense, variably cemented, SILT (ML) with sand; trace gravel, fine grained sand		D6-1I	50/5"			
			Auger refusal at the maximum explored depth of 4.5 feet below existing site grade. Groundwater was not encountered.						

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FIGURE 8

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UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D2487)

MAJOR DIVISIONS		USCS[4]	CODE	CHARACTERISTICS
COARSE GRAINED SOILS (More than 50% of soil > no. 200 sieve size)	GRAVELS[1] (More than 50% of coarse fraction > no. 4 sieve size)	GW		Well-graded gravels or gravel - sand mixtures, trace or no fines
		GP		Poorly graded gravels or gravel - sand mixtures, trace or no fines
		GM		Silty gravels, gravel - sand - silt mixtures, containing little to some fines[2]
		GC		Clayey gravels, gravel - sand - clay mixtures, containing little to some fines[2]
	SANDS[1] (50% or more of coarse fraction < no. 4 sieve size)	SW		Well-graded sands or sand - gravel mixtures, trace or no fines
		SP		Poorly graded sands or sand - gravel mixtures, trace or no fines
		SM		Silty sands, sand - gravel - silt mixtures, containing little to some fines[2]
		SC		Clayey sands, sand - gravel - clay mixtures, containing little to some fines[2]
FINE GRAINED SOILS (50% or more of soil < no. 200 sieve size)	SILTS & CLAYS LL < 50	ML		Inorganic silts, gravely silts, and sandy silts that are non-plastic or with low plasticity
		CL		Inorganic lean clays, gravelly lean clays, sandy lean clays of low to medium plasticity[3]
		OL		Organic silts, organic lean clays, and organic silty clays
	SILTS & CLAYS LL ≥ 50	MH		Inorganic elastic silts, gravelly elastic silts, and sandy elastic silts
		CH		Inorganic fat clays, gravelly fat clays, sandy fat clays of medium to high plasticity
		OH		Organic fat clays, gravelly fat clays, sandy fat clays of medium to high plasticity
HIGHLY ORGANIC SOILS		PT		Peat
ROCK		RX		Rocks, weathered to fresh
FILL		FILL		Artificially placed fill material

OTHER SYMBOLS

- = Drive Sample: 2-1/2" O.D. Modified California sampler
- = Drive Sampler: no recovery
- = SPT Sampler
- = Initial Water Level
- = Final Water Level
- — — — = Estimated or gradational material change line
- ——— = Observed material change line

Laboratory Tests

CR = Corrosion
PI = Plasticity Index
EI = Expansion Index
UCC = Unconfined Compression Test (TSF)
TR = Triaxial Compression Test
GR = Gradational Analysis (Sieve/Hydro)
FC = Wash (Fines Content)
PP = Pocket Penetrometer Test (TSF)
PID = Photo Ionization Detector Test (PPM)
RV = Resistance ("R") Value

REF = Refusal (>50 blows in 6 inches)

GRAIN SIZE CLASSIFICATION

CLASSIFICATION	RANGE OF GRAIN SIZES	
	U.S. Standard Sieve Size	Grain Size in Millimeters
BOULDERS (b)	Above 12"	Above 300
COBBLES (c)	12" to 3"	300 to 75
GRAVEL (g)	3" to No. 4	75 to 4.75
coarse	3" to 3/4"	75 to 19
fine	3/4" to No. 4	19 to 4.75
SAND	No. 4 to No. 200	4.75 to 0.075
coarse	No. 4 to No. 10	4.75 to 2.00
medium	No. 10 to No. 40	2.00 to 0.425
fine	No. 40 to No. 200	0.425 to 0.075
SILT & CLAY	Below No. 200	Below 0.075

Trace - Less than 5 percent
Few - 5 to 10 percent
Little - 15 to 25 percent
Some - 35 to 45 percent
Mostly - 50 to 100 percent

* Percents as given in ASTM D2488

NOTES:

1. Coarse grained soils containing 5% to 12% fines, use dual classification symbol (ex. SP-SM).
2. If fines classify as CL-ML (4<PI<7), use dual symbol (ex. SC-SM).
3. Silty Clays, use dual symbol (CL-ML).
4. Borderline soils with uncertain classification list both classifications (ex. CL/ML).

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UNIFIED SOIL CLASSIFICATION SYSTEM

GIBSON PARK

Roseville, California

FIGURE	9
DRAWN BY	RWO
CHECKED BY	JEL
PROJECT MGR	MSM
DATE	08/2021
WKA NO.	13232.01P

APPENDICES

Not for Construction
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APPENDIX A
General Project Information, Laboratory Testing and Results

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APPENDIX A
WKA No. 13232.01P

A. GENERAL INFORMATION

The performance of a geotechnical engineering study for the proposed Gibson Park project to be constructed northwesterly of the intersection of Gibson Drive and Roseville Parkway in Roseville, California, was authorized by our client, Verde Design, Inc., on June 24, 2021. Authorization was for an investigation as described in our proposal letter dated September 30, 2020, sent to Verde Design, Inc, whose mailing address is 1843 Iron Point Road, Suite 140, in Folsom, California 95630; telephone (916) 415-6550.

B. FIELD EXPLORATIONS

As part of our study for the proposed Gibson Park project, our field exploration included the drilling and sampling of six borings (D1 through D6) at the approximate locations shown in Figure 2, on July 12, 2013.

The borings were drilled at the site using a CME-75 truck-mounted drill rig equipped with six-inch-diameter, solid flight augers to depths ranging from about four to 7½ feet below existing site grades at the locations shown in Figure 2. At various intervals soil samples were recovered with a 2½-inch outside diameter (O.D.), 2-inch inside diameter (I.D.), modified California split-spoon sampler. The sampler was driven by an automatic 140-pound hammer freely falling 30 inches. The number of blows of the hammer required to drive the 18-inch-long sampler each 6-inch interval was recorded. The sum of the blows required to drive the sampler the lower 12-inch interval, or portion thereof, is designated the penetration resistance or "blow count" for that particular drive. The modified California samples were retained in 2-inch-diameter by 6-inch-long, thin walled brass tubes contained within the sampler. After recovery, the field representative visually classified the soil recovered in the tubes. After the samples were classified, the ends of the tubes were sealed to preserve the natural moisture contents.

In addition to the drive samples from the borings, representative bulk samples of near-surface soil were collected from select borings and retained in plastic bags at the locations. All samples were taken to our laboratory for additional soil classification and selection of samples for testing.

The Logs of Soil Borings containing descriptions of the soils encountered in each boring are presented as Figures 3 through 8. A Legend explaining the Unified Soil Classification System and the symbols used on the logs is contained in Figure 9.

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On July 13, 2021, two percolation tests (P1 and P2) were performed at the approximate locations indicated in Figure 2. The percolation test pipe extended to depths ranging from about four to 4½ feet below the existing ground surface.

After a 24 hour period after drilling activities, the holes were re-filled and the percolation tests were performed by taking water level readings at various intervals. The readings were measured as a distance from the top of the percolation pipe to water surface. The drop in water was measured every 30 minutes. Percolation rates were calculated for each time interval.

On July 13, 2021, two infiltration tests (I1 and I2) were performed at the approximate locations indicated on Figure 2. The infiltration tests extended about one foot below the surrounding ground surface and were performed in general accordance with ASTM D3385 to determine the infiltration rate of the near-surface subgrade soils. The testing rings were carefully pushed into the exposed soils and the rings were then carefully filled with clean, potable water. Water level measurements were obtained from both rings at 15- to 30-minute intervals.

C. LABORATORY TESTING

Selected undisturbed soil samples were tested to determine dry unit weight (ASTM D2937) and natural moisture content (ASTM D2216. The results of these tests are included on the boring logs at the depth each tested sample was obtained.

Three representative samples of the near-surface soil were subjected to Expansion Index testing (ASTM D4829). The results of these tests are presented on Figures A1 through A3.

Two bulk samples of near-surface soil were subjected to Resistance-value ("R") testing in accordance with California Test 301. The results of the R-value tests, which were used in the pavement design, are presented on Figure A4.

Two samples of representative near-surface soils were submitted to Sunland Analytical to determine the soil pH and minimum resistivity (California Test 643), Sulfate concentration (California Test 417 and ASTM D516) and Chloride concentration (California Test 422). The test results are presented on Figures A5 through A8.

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EXPANSION INDEX TEST RESULTS

ASTM D4829

MATERIAL DESCRIPTION: Brown, lean clay with sand and trace gravel

LOCATION: D1

Sample Depth	Pre-Test Moisture (%)	Post-Test Moisture (%)	Dry Density (pcf)	Expansion Index
0' - 3'	12.6	23.2	99	3

CLASSIFICATION OF EXPANSIVE SOIL *

EXPANSION INDEX	POTENTIAL EXPANSION
0 - 20	**Very Low**
21 - 50	Low
51 - 90	Medium
91 - 130	High
Above 130	Very High

* From ASTM D4829, Table 1

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EXPANSION INDEX

GIBSON PARK

Roseville, California

FIGURE	A1
DRAWN BY	RWO
CHECKED BY	JEL
PROJECT MGR	MSM
DATE	08/2021
WKA NO.	13232.01P

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EXPANSION INDEX TEST RESULTS

ASTM D4829

MATERIAL DESCRIPTION: Brown, sandy lean clay with trace gravel

LOCATION: D5

Sample Depth	Pre-Test Moisture (%)	Post-Test Moisture (%)	Dry Density (pcf)	Expansion Index
2.5' -4'	13.0	21.0	100	1

CLASSIFICATION OF EXPANSIVE SOIL *

EXPANSION INDEX	POTENTIAL EXPANSION
0 - 20	**Very Low**
21 - 50	Low
51 - 90	Medium
91 - 130	High
Above 130	Very High

* From ASTM D4829, Table 1

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EXPANSION INDEX

GIBSON PARK

Roseville, California

FIGURE	A2
DRAWN BY	RWO
CHECKED BY	JEL
PROJECT MGR	MSM
DATE	08/2021
WKA NO.	13232.01P

Not for Construction
For Council Approval

EXPANSION INDEX TEST RESULTS

ASTM D4829

MATERIAL DESCRIPTION: Brown, lean clay with trace sand and gravel

LOCATION: D6

Sample Depth	Pre-Test Moisture (%)	Post-Test Moisture (%)	Dry Density (pcf)	Expansion Index
2.5' -4.5'	9.7	17.8	110	**0**

CLASSIFICATION OF EXPANSIVE SOIL *

EXPANSION INDEX	POTENTIAL EXPANSION
0 - 20	**Very Low**
21 - 50	Low
51 - 90	Medium
91 - 130	High
Above 130	Very High

* From ASTM D4829, Table 1

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EXPANSION INDEX

GIBSON PARK

Roseville, California

FIGURE	A3
DRAWN BY	RWO
CHECKED BY	JEL
PROJECT MGR	MSM
DATE	08/2021
WKA NO.	13232.01P

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RESISTANCE VALUE TEST RESULTS

(California Test 301)

MATERIAL DESCRIPTION: Brown, sandy lean clay with trace gravel

LOCATION: D5 (2.5' - 4')

Specimen No.	Dry Unit Weight (pcf)	Moisture @ Compaction (%)	Exudation Pressure (psi)	Expansion (dial, inches x 1000)	Expansion (psf)	R Value
1	113	16.7	166	0	0	25
2	114	16.0	250	0	0	28
3	116	15.2	376	0	0	42

R-Value at 300 psi exudation pressure = 33

MATERIAL DESCRIPTION: Brown, sandy lean clay with trace gravel

LOCATION: D6 (2.5' - 4.5')

Specimen No.	Dry Unit Weight (pcf)	Moisture @ Compaction (%)	Exudation Pressure (psi)	Expansion (dial, inches x 1000)	Expansion (psf)	R Value
1	122	12.0	115	0	0	5
2	124	10.4	239	0	0	19
3	124	9.6	352	0	0	35

R-Value at 300 psi exudation pressure = 27

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Sunland Analytical

11419 Sunrise Gold Circle, #10
Rancho Cordova, CA 95742
(916) 852-8557

Date Reported 08/04/2021
Date Submitted 07/28/2021

To: Jesus Lopez
Wallace-Kuhl & Assoc.
3050 Industrial Blvd
West Sacramento, CA 95691

From: Gene Oliphant, Ph.D. \ Randy Horney
General Manager \ Lab Manager

The reported analysis was requested for the following location:
Location : 13232.01P Site ID : D1-1I.
Thank you for your business.

* For future reference to this analysis please use SUN # 85400-178074.

EVALUATION FOR SOIL CORROSION

Soil pH	6.23	
Minimum Resistivity	2.68 ohm-cm (x1000)	
Chloride	9.1 ppm	00.00091 %
Sulfate	6.8 ppm	00.00068 %

METHODS
pH and Min.Resistivity CA DOT Test #643
Sulfate CA DOT Test #417, Chloride CA DOT Test #422m

WallaceKuhl & Associates — A Universal Engineering Sciences Company

CORROSION TEST RESULTS

GIBSON PARK

Roseville, California

FIGURE	A5
DRAWN BY	RWO
CHECKED BY	JEL
PROJECT MGR	MSM
DATE	08/2021
WKA NO.	13232.01P

Not for Construction
For Council Approval

Sunland Analytical

11419 Sunrise Gold Circle, #10
Rancho Cordova, CA 95742
(916) 852-8557

Date Reported 08/04/2021
Date Submitted 07/28/2021

To: Jesus Lopez
Wallace-Kuhl & Assoc.
3050 Industrial Blvd
West Sacramento, CA 95691

From: Gene Oliphant, Ph.D. \ Randy Horney
General Manager \ Lab Manager

The reported analysis was requested for the following location:
Location : 13232.01P Site ID : D1-1I.
Thank you for your business.

* For future reference to this analysis please use SUN # 85400-178075.

Extractable Sulfate in Water

Type of TEST	Result	Units
Sulfate-SO4	6.0	mg/kg

METHODS
ASTM D-516m from sat.paste extract-reported based on dry wt.

Not for Construction
For Council Approval

Sunland Analytical

11419 Sunrise Gold Circle, #10
Rancho Cordova, CA 95742
(916) 852-8557

Date Reported 08/04/2021
Date Submitted 07/28/2021

To: Jesus Lopez
Wallace-Kuhl & Assoc.
3050 Industrial Blvd
West Sacramento, CA 95691

From: Gene Oliphant, Ph.D. \ Randy Horney
General Manager \ Lab Manager

The reported analysis was requested for the following location:
Location : 13232.01P **Site ID :** D6-1I.
Thank you for your business.

* For future reference to this analysis please use SUN # 85400-178072.

EVALUATION FOR SOIL CORROSION

Soil pH	6.27	
Minimum Resistivity	3.48 ohm-cm (x1000)	
Chloride	4.7 ppm	00.00047 %
Sulfate	9.7 ppm	00.00097 %

METHODS
pH and Min.Resistivity CA DOT Test #643
Sulfate CA DOT Test #417, Chloride CA DOT Test #422m

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CORROSION TEST RESULTS
GIBSON PARK
Roseville, California

FIGURE	A7
DRAWN BY	RWO
CHECKED BY	JEL
PROJECT MGR	MSM
DATE	08/2021
WKA NO.	13232.01P

Sunland Analytical

11419 Sunrise Gold Circle, #10
Rancho Cordova, CA 95742
(916) 852-8557

Date Reported 08/04/2021
Date Submitted 07/28/2021

To: Jesus Lopez
Wallace-Kuhl & Assoc.
3050 Industrial Blvd
West Sacramento, CA 95691

From: Gene Oliphant, Ph.D. \ Randy Horney
General Manager \ Lab Manager

The reported analysis was requested for the following location:
Location : 13232.01P Site ID : D6-1I.
Thank you for your business.

* For future reference to this analysis please use SUN # 85400-178073.

Extractable Sulfate in Water

Type of TEST	Result	Units
Sulfate-SO4	9.2	mg/kg

METHODS
ASTM D-516m from sat.paste extract-reported based on dry wt.

WallaceKuhl & ASSOCIATES — A Universal Engineering Sciences Company	CORROSION TEST RESULTS GIBSON PARK Roseville, California	FIGURE A8 DRAWN BY RWO CHECKED BY JEL PROJECT MGR MSM DATE 08/2021 WKA NO. 13232.01P

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APPENDIX B
Guide Earthwork Specifications

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APPENDIX B

GUIDE EARTHWORK SPECIFICATIONS

GIBSON PARK

Roseville, California

WKA No. 13232.01P

PART 1: GENERAL

1.1 SCOPE

A. General Description

This item shall include all clearing of existing surface and subsurface structures, utilities, vegetation, rubbish, rubble, and associated items; preparation of surfaces to be filled, filling, spreading, compaction, observation and testing of the fill; and all subsidiary work necessary to complete the grading of the site to conform with the lines, grades and slopes as shown on the accepted Drawings.

B. Related Work Specified Elsewhere

(1) Trenching and backfilling for sanitary sewer system: Section ___.

(2) Trenching and backfilling for storm drain system: Section ___.

(3) Trenching and backfilling for underground water, natural gas, and electric supplies: Section ___.

C. Geotechnical Engineer

Where specific reference is made to "Geotechnical Engineer" this designation shall be understood to include either the Geotechnical Engineer or his or her representative.

1.2 PROTECTION

A. Adequate protection measures shall be provided to protect workers and passers-by the site. Streets and adjacent property shall be fully protected throughout the operations.

B. In accordance with generally accepted construction practices, the Contractor shall be solely and completely responsible for working conditions at the job site, including safety of all persons and property during performance of the work. This requirement shall apply continuously and shall not be limited to normal working hours.

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C. Any construction review of the Contractor's performance conducted by the Geotechnical Engineer is not intended to include review of the adequacy of the Contractor's safety measures, in, on or near the construction site.

D. Adjacent streets and sidewalks shall be kept free of mud, dirt, or similar nuisances resulting from earthwork operations.

E. Measures shall be taken to protect storm drains in adjacent depressed areas such that minimum siltation occurs in the drainage system.

F. Surface drainage provisions shall be made during the period of construction in a manner to avoid creating a nuisance to adjacent areas.

G. The site and adjacent influenced areas shall be watered as required to suppress dust nuisance.

1.3 GEOTECHNICAL REPORT

A. A *Geotechnical Engineering Report* (WKA No. 13232.01P, dated August 26, 2021) has been prepared for this site by Wallace - Kuhl & Associates, Geotechnical Engineers of West Sacramento, California [(916) 372-1434]. A copy is available for review at the office of Wallace - Kuhl & Associates.

B. The information contained in this report was obtained for design purposes only. The Contractor is responsible for any conclusions the Contractor may draw from this report; should the Contractor prefer not to assume such risk, the Contractor should employ experts to analyze available information and/or to make additional borings upon which to base conclusions drawn by the Contractor, all at no cost to the Owner.

1.4 EXISTING SITE CONDITIONS

The Contractor shall become acquainted with all site conditions. If unshown active utilities are encountered during the work, the Architect shall be promptly notified for instructions. Failure to notify will make the Contractor liable for damage to these utilities arising from Contractor's operations subsequent to the discovery of such unshown utilities.

1.5 SEASONAL LIMITS

Fill material shall not be placed, spread or rolled during unfavorable weather conditions. When the work is interrupted by heavy rains, fill operations shall not be resumed until

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field tests indicate that the moisture contents of the subgrade and fill materials are satisfactory.

PART 2: PRODUCTS

2.1 MATERIALS

A. All fill shall be of approved local materials from required excavations, supplemented by imported fill, if necessary. Approved local materials are defined as local soils that do not contain significant quantities of clay, rubble, rubbish and vegetation, and having been tested and approved by the Geotechnical Engineer prior to use.

B. Imported fill materials shall be approved by the Geotechnical Engineer prior to being transported to the site; they shall meet the above requirements; shall have an Expansion Index not exceeding twenty (20) when tested in accordance with ASTM D4829; and, shall be of three-inch (3") maximum particle size. Imported fill materials to be used within pavement areas should possess a Resistance value of twenty five (25) or higher when tested in accordance with California Test 301. Import materials shall not contain known contaminants and be within acceptable corrosion limits, with appropriate documentation provided by the contractor.

C. Capillary barrier material under floor slabs shall be provided to the thickness shown on the Drawings. This material shall be clean gravel or crushed rock of one-inch (1") maximum size, with less than five percent (5%) material passing a Number Four (#4) sieve.

D. Other products, such as aggregate base, asphalt concrete and related asphaltic seal coats, tack coat, etc., shall comply with the appropriate provision of the State of California (Caltrans) Standard Specifications, latest edition.

PART 3: EXECUTION

3.1 LAYOUT AND PREPARATION

Lay out all work, establish grades, locate existing underground utilities, set markers and stakes, set up and maintain barricades and protection of utilities prior to beginning actual earthwork operations.

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3.2 CLEARING, STRIPPING, AND PREPARING BUILDING PAD AND OTHER AREAS

A. All surface and sub-surface items associated with previous site activities or development, including stockpiles, undocumented fill, utilities and associated backfill, vegetation, debris, and any other items encountered during site work and deemed unacceptable by the Geotechnical Engineer, shall be removed and disposed of so as to leave the disturbed areas with a neat and finished appearance, free from unsightly debris. Bushes and/or any other heavy vegetation, designated for removal shall include the rootball and all surface roots larger than one-half inch (½") in diameter. Adequate removal of debris and roots may require laborers and handpicking to clean the subgrade soils to the satisfaction of the Geotechnical Engineer's on-site representative, prior to further site preparation. All demolition debris shall be hauled off site.

B. If any wells, septic systems, or tanks are encountered at the site, they should be properly abandoned in accordance with Placer County Environmental Health Department requirements.

C. Excavations and depressions resulting from the removal of such items, as determined by the Geotechnical Engineer, shall be cleaned out to firm, undisturbed soils and backfilled with suitable materials in accordance with these specifications.

D. All structural areas (building pads, pavements, exterior flatwork, etc.), shall be stripped of vegetation and organically laden topsoil. The stripping shall extend at least two feet (2') beyond the building pads (as defined in the *Geotechnical Engineering Report*), exterior flatwork areas, pavements and any other structural areas. With prior approval from the Geotechnical Engineer, strippings may be used in landscaped areas, provided they are kept at least five (5) from buildings pads and other surface improvements, moisture conditioned and compacted.

E. After the Geotechnical Engineer's representative has identified stable soils at the bottom of the required over-excavations, the bottom of the required over-excavations, as well as areas to receive fill, achieved by excavation or remain at grade, shall be scarified to a depth of at least twelve inches (12"), thoroughly moisture conditioned to at least the optimum moisture content, and uniformly compacted to at least ninety percent (90%) of the maximum dry density as determined by ASTM D1557 Test Method or as defined in the *Geotechnical Engineering Report* if the material is too rocky to test.

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F. In areas where hardpan is exposed and verified by the Geotechnical Engineer's representative at the final ground surface level, scarification and recompaction is not required.

G. Compaction operations for all soil subgrades shall be undertaken with a heavy, self-propelled, sheepsfoot compactor capable of achieving the compaction requirements included in the *Geotechnical Engineering Report.*

H. When the moisture content of the fill material is less than the optimum moisture content as defined by the ASTM D1557 Compaction Test, water shall be added until the proper moisture content is achieved.

I. When the moisture content of the subgrade is too high to permit the specified compaction to be achieved, the subgrade shall be aerated by blading or other methods until the moisture content is satisfactory for compaction.

J. Site clearing and subgrade preparation operations should extend at least two feet (2') beyond the building pads (as defined in the *Geotechnical Engineering Report*), exterior flatwork areas, pavements and any other structural areas.

K. Compaction operations shall be performed in the presence of the Geotechnical Engineer who will evaluate the performance of the materials under compactive load. Loose, soft, saturated and/or unstable soils, as determined by the Geotechnical Engineer, shall be excavated to expose a stable base and grades should be restored with engineered fill in accordance with these specifications.

3.3 CONSTRUCTION OF SUBGRADES

A. The selected soil fill material shall be placed in layers which when compacted shall not exceed six inches (6") in compacted thickness. Each layer shall be spread evenly and shall be thoroughly mixed during the spreading to promote uniformity of material in each layer.

B. When the moisture content of the fill material is less than the optimum moisture content as defined by the ASTM D1557 Compaction Test, water shall be added until the proper moisture content is achieved.

C. When the moisture content of the fill material is too high to permit the specified degree of compaction to be achieved, the fill material shall be aerated by blading or other methods until the moisture content is satisfactory.

D. After each layer has been placed, mixed and spread evenly, it shall be thoroughly compacted to at least ninety percent (90%) as determined by the ASTM D1557 Compaction Test or as defined in the *Geotechnical Engineering*

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Report if the material is too rocky to test. Compaction shall be undertaken with equipment capable of achieving the specified density and shall be accomplished while the fill material is at the required moisture content. Each layer shall be compacted over its entire area until the desired density has been obtained.

E. The filling operations shall be continued until the fills have been brought to the finished slopes and grades as shown on the accepted Drawings.

3.4 FINAL SUBGRADE PREPARATION

A. Final subgrade for building pads and exterior flatwork areas (i.e., sidewalks, picnic areas, etc.), shall be constructed in accordance with Section 3.2 and Section 3.3 of these specifications. Subgrades for support of concrete slabs-on-grade shall be kept lightly moistened and/or protected from disturbance or rutting until covered by capillary break material or aggregate base. Disturbed or rutted subgrade soils may require additional processing and recompaction, depending on the level of disturbance.

B. Final subgrade for pavements shall be constructed in accordance with Section 3.2 and Section 3.3 of these specifications. The upper six inches (6") of final pavement subgrades shall be brought to a uniform moisture content of at least the optimum moisture content, and shall be uniformly compacted to not less than ninety-five percent (95%) as determined by ASTM D1557 Compaction Test or as defined in the *Geotechnical Engineering Report* if the material is too rocky to test, regardless of whether final subgrade elevations are attained by filling, excavation or are left at existing grades. Subgrades for support of pavements shall be kept lightly moistened and/or protected from disturbance or rutting until covered by aggregate base. Disturbed or rutted subgrade soils may require additional processing and recompaction, depending on the level of disturbance.

3.5 TESTING AND OBSERVATION

A. Grading operations shall be observed by the Geotechnical Engineer, serving as the representative of the Owner.

B. Field density tests shall be made by the Geotechnical Engineer after compaction of each layer of fill. Additional layers of fill shall not be spread until the field density tests indicate that the minimum specified density has been obtained.

C. Earthwork shall not be performed without the notification or approval of the Geotechnical Engineer. The Contractor shall notify the Geotechnical Engineer at

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least two (2) working days prior to commencement of any aspect of the site earthwork.

D. If the Contractor should fail to meet the technical or design requirements embodied in this document and on the applicable plans, the necessary readjustments shall be made by the Contractor until all work is deemed satisfactory, as determined by the Geotechnical Engineer and the Architect/Engineer. No deviation from the specifications shall be made except upon written approval of the Geotechnical Engineer or Architect/Engineer.

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DRAWINGS

Project: Gibson Park

Gibson Park plans dated 05/20/22 by
Verde Design, Inc.

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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.

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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.

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(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

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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

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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.

Not for Construction
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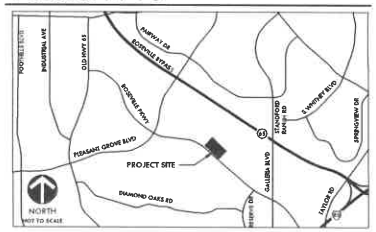
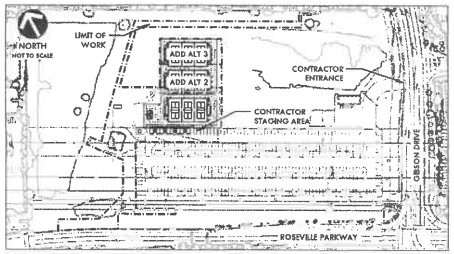
PROJECT MAPS



VICINITY MAP



SITE MAP

CONSTRUCTION DRAWINGS FOR
GIBSON PARK
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678
VERDE DESIGN, INC. PROJECT NO. 2014500

PREPARED BY

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd #140
Folsom, CA 95630
tel: 916.415.5554
fax: 408.985.7260
www.VerdeDesignInc.com

REGISTERED LANDSCAPE ARCHITECT — MARK S. BAGINSKI — No. 4089 — Signature — EXPIRATION DATE: JULY 2023 — STATE OF CALIFORNIA

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN INC, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

akh
STRUCTURAL ENGINEERS, INC.
1305 MERIDIAN AVE, SUITE B
SAN JOSE, CALIFORNIA 95125
PHONE 408.978.3979
AKH JOB #20-080

REGISTERED PROFESSIONAL ENGINEER — MARK A. HYDE — No. E-19 — ELECTRICAL — STATE OF CALIFORNIA

PRELIMINARY

Date Signed: 5/20/22

Stanton ENGINEERING
PROJECT 21040
11344 Coloma Rd, Suite 445
Gold River, CA 95670
TEL 916.288.8258
www.stantoneng.com

SCOPE OF WORK

SCOPE OF WORK TO INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING: SITE DEMOLITION, CLEAR AND GRUB OF UNDEVELOPED LOT AND SAW CUT AND PARTIAL REMOVAL OF EXISTING PARKING LOT. PROPOSED IMPROVEMENTS INCLUDE CONSTRUCTION OF THREE (3) PICKLE BALL COURTS WITH PERIMETER FENCING, CITY STANDARD COMFORT STATION #2 WITH STAND ALONE DRINKING FOUNTAIN, NEW HARDSCAPE, LANDSCAPE, SITE UTILITIES, AND PATH OF TRAVEL AND ACCESSIBLE PARKING FOR ACCESSIBILITY REQUIREMENTS. SPORTS LIGHTING FOR THREE (3) PICKLE BALL COURTS. SPORTS LIGHTING INFRASTRUCTURE, UNDERGROUND UTILITY AND ELECTRICAL INFRASTRUCTURE FOR FUTURE PHASES ALSO TO BE INSTALLED.

BID ADDITIVE ALTERNATES

BID ADDITIVE ALTERNATE #1:
CONSTRUCTION OF TWO (2) SPECTATOR SHADE STRUCTURES ON THE WEST SIDE OF COURT 1 AND THE EAST SIDE OF COURT 3 AND RELATED IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, HARDSCAPE, UTILITIES AND ELECTRICAL

BID ADDITIVE ALTERNATE #2
CONSTRUCTION OF THREE (3) ADDITIONAL PICKLE BALL COURTS WITH PERIMETER FENCING (COURTS 4, 5, & 6) LOCATED TO THE NORTH OF COURTS 1-3. INCLUDING TWO (2) SPECTATOR SHADE STRUCTURES ONE LOCATED ON THE WEST SIDE OF COURT 4 AND ONE ON THE EAST SIDE OF COURT 6, SPORTS COURT LIGHTING, AND RELATED IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, HARDSCAPE, FURNISHINGS, UTILITIES AND ELECTRICAL

BID ADDITIVE ALTERNATE #3:
CONSTRUCTION OF THREE (3) ADDITIONAL PICKLE BALL COURTS WITH PERIMETER FENCING (COURTS 7, 8, & 9) LOCATED TO THE NORTH OF COURTS 4-6. INCLUDING TWO (2) SPECTATOR SHADE STRUCTURES ONE LOCATED ON THE WEST SIDE OF COURT 7 AND ONE ON THE EAST SIDE OF COURT 9, SPORTS COURT LIGHTING, AND RELATED IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, HARDSCAPE, FURNISHINGS, UTILITIES AND ELECTRICAL.

GENERAL NOTES

1. PRIOR TO BIDDING, THE GENERAL CONTRACTOR SHALL VISIT & INSPECT THE SITE & FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AFFECTING THE NEW WORK. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S FAILURE TO INSPECT THE SITE. CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONDITIONS, REQUIRING WORK, WHICH ARE NOT COVERED IN THE CONTRACT DOCUMENTS.
2. NO CONSTRUCTION SHALL COMMENCE WITHOUT THE OFFICIAL NOTICE TO PROCEED FROM THE OWNER.
3. THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ROUTING LOCATIONS AS BEST DETERMINED FROM EXISTING DRAWINGS AND THE OWNER, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL OF THE EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES THAT MAY BE AFFECTED BY NEW FACILITIES IN THIS CONTRACT. VERIFY ACTUAL LOCATION AND DEPTH OF UTILITIES, AND REPORT POTENTIAL CONFLICTS TO THE OWNER PRIOR TO EXCAVATING FOR NEW FACILITIES.
4. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT ALL EXISTING UTILITIES, WHETHER SHOWN OR NOT, IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES CAUSED BY ITS OPERATIONS.
5. THE CONTRACTOR SHALL PROTECT ALL EXISTING ITEMS WITHIN SITE IMPROVEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ALL DAMAGED AREAS TO THEIR ORIGINAL CONDITION OR BETTER AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. DIMENSIONS AND LOCATIONS OF EXISTING FACILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER.
7. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA FIRE CODE AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES, AS WELL AS ADAPTED STANDARDS.
8. ALL NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO, THE WRITTEN SPECIFICATIONS AND DETAILS ASSOCIATED WITH THE CONTRACT DOCUMENTS. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS SET FOR IN THE GEOTECHNICAL ENGINEERS REPORT, GIBSON PARK, PREPARED BY WALLACE-KUHL & ASSOCIATES, INCLUDED BY REFERENCE.
9. THIS DRAWING SET SHALL BE USED IN CONJUNCTION WITH THE CITY OF ROSEVILLE FORMAT SPECIFICATIONS PUBLISHED IN BOOK FORM. COMBINED, THEY ARE HEREIN REFERRED TO AS THE "CONTRACT DOCUMENTS".
10. DIMENSIONS ON WORKING DRAWINGS TAKE PRECEDENCE OVER MEASURED ELEMENTS. CONTRACTOR SHALL NOT SCALE DRAWINGS.
11. ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE.
12. CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL AND KEEP MUD AND DEBRIS OFF THE PUBLIC RIGHT-OF-WAY AT ALL TIMES.
13. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.

GENERAL NOTES CONTINUED ON C0.2

LANDSCAPE ARCHITECT

I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPING ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE.

LANDSCAPE ARCHITECT

DATE

APPLICABLE CODES AND STANDARDS

1. 2019 CBC CHAPTER 35: PROVIDE ALL THE APPLICABLE/ADOPTED STANDARDS. WHERE A PARTICULAR STANDARD IS REFERENCED IN THE CODE BUT DOES NOT APPEAR AS AN ADOPTED STANDARD IT MAY STILL BE USED. APPLY ONLY THE PORTION OF THE STANDARD THAT IS APPLICABLE TO THE CODE SECTION WHERE THE STANDARD IS REFERENCED, NOT THE ENTIRE STANDARD.

   2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
   2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
   (2018 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2016 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
   (2017 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
   (2018 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA PLUMBING CODE (CDC), PART 5, TITLE 24 C.C.R.
   (2018 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
   2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
   (2018 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
   (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2016 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA "GREEN" BUILDING REQUIREMENTS OR CAL GREEN, PART 11, TITLE 24 C.C.R.
   2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
   2019 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
   2016 ASME A17.1/CSA B44.13 SAFETY CODE FOR ELEVATORS AND ESCALATORS

   LIST OF FEDERAL CODES AND STANDARDS (IF APPLICABLE)
   AMERICANS WITH DISABILITIES ACT (ADA), TITLE II OR TITLE III
   FOR TITLE II: UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) — 28 CFR 35.151(c)
   OR ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)
   FOR TITLE III: ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36) — 28 CFR 36.406
   2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN

   NOTE: TITLE II APPLIES TO PROJECTS FUNDED AND/OR USED BY STATE AND LOCAL GOVERNMENT SERVICES. TITLE III COVERS PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES. DEPENDING ON THE USE AND FUNDING, BOTH TITLE MAY APPLY TO THE PROJECT.

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED)	2019 EDITION
NFPA 14	STANDPIPE SYSTEMS	2019 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 20	STATIONARY FIRE PUMPS	2019 EDITION
NFPA 22	WATER TANKS FOR PRIVATE FIRE PROTECTION	2018 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS	2019 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES)	2019 EDITION
NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVES	2019 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2019 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2018 EDITION
UL 300	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ADDESSORIES	2003 EDITION
UL 521	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 1971	SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 EDITION
ICC 300	BLEACHERS, FOLDING AND TELESCOPING SEATING, AND GRANDSTANDS	2017 EDITION
ASME 17.1	ELEVATOR STANDARD	2016 EDITION

   REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS - 2019 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

   ADA STANDARD FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)

2. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
3. ALL EXISTING FIRE EXTINGUISHING SYSTEMS ARE IN COMPLIANCE WITH UL 300, CBC 904.11, CFC 904.11.
4. LATEST EDITION OF THE CITY OF ROSEVILLE DESIGN AND CONSTRUCTION STANDARDS.
5. LATEST EDITION OF THE CITY OF ROSEVILLE PARKS CONSTRUCTION STANDARDS.

PROJECT INFORMATION:

TOTAL LANDSCAPE AREA = 162,945 SQ. FT.
PROJECT TYPE: NEW PUBLIC PARK

WATER DISTRICT NAME:
CITY OF ROSEVILLE
WATER UTILITY
(916) 774-5750

POWER UTILITY PROVIDER:
CITY OF ROSEVILLE
ELECTRIC UTILITY
(916) 797-6937

CWJ #
EN #
BD#
WDID #

CONTACT INFORMATION

OWNER		
CITY OF ROSEVILLE	TARA GEE TGEE@ROSEVILLE.CA.US	(916) 774-5253
LANDSCAPE ARCHITECT		
VERDE DESIGN INC.	MARK BAGINSKI MARK@VERDEDESIGNINC.COM CHRIS SULLIVAN CHRISS@VERDEDESIGNINC.COM	(408) 850-3411 (916) 996-5525
STRUCTURAL ENGINEER		
AKH STRUCTURAL ENGINEERS	TIM HYDE HYDE@AKHSE.COM	(408) 978-1970
ELECTRICAL ENGINEER		
STANTON ENGINEERING	NATHAN HEARN NHEARN@CAPITAL-ENGINEERING.COM	(916) 851-3568

SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
C0.1	COVER SHEET
C0.2	PUBLIC IMPROVEMENT REQUIREMENT NOTES
C0.3	PUBLIC IMPROVEMENT REQUIREMENT NOTES
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L1.1	EXISTING CONDITIONS PLAN
L1.2	EXISTING CONDITIONS PLAN
L2.1	EROSION CONTROL PLAN
L2.2	EROSION CONTROL PLAN
L2.3	EROSION CONTROL DETAILS
L3.1	DEMOLITION PLAN
L3.2	DEMOLITION PLAN
L4.1	GRADING PLAN
L4.2	GRADING PLAN
L5.1	DRAINAGE AND UTILITY PLAN
L5.2	DRAINAGE AND UTILITY PLAN
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L6.2	LAYOUT PLAN - MISCELLANEOUS
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L8.1	IRRIGATION PLAN
L8.2	IRRIGATION PLAN
L8.3	IRRIGATION NOTES AND SUPPORT INFORMATION
L9.1	PLANTING PLAN
L9.2	PLANTING PLAN
L10.1	ADD ALTERNATE 2 SHEET
L10.2	ADD ALTERNATE 2 SHEET
L10.3	ADD ALTERNATE 2 SHEET
L11.1	ADD ALTERNATE 3 SHEET
L11.2	ADD ALTERNATE 3 SHEET
L11.3	ADD ALTERNATE 3 SHEET
D1.1	DRAINAGE AND UTILITY DETAILS
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D1.3	DRAINAGE AND UTILITY DETAILS
D2.1	HARDSCAPE DETAILS
D3.1	PARKING DETAILS
D4.1	FENCING DETAILS
D5.1	PICKLEBALL DETAILS
D5.2	PICKLEBALL COURT SECTION
D5.3	PICKLEBALL COURT SECTION
D6.1	IRRIGATION DETAILS
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SHEET NO.	SHEET DESCRIPTION
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E0.2	ELECTRICAL ONE-LINE DIAGRAM
E0.3	ELECTRICAL PANEL SCHEDULES
E0.4	ELECTRICAL DETAILS 1
E0.5	ELECTRICAL DETAILS 2
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E2.1	ENLARGED AREA PLANS - ELECTRICAL
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E2.3	ADD ALTERNATE #2 PARTIAL ENLARGED ELECTRICAL SITE PLAN 2
E2.4	ADD ALTERNATE #3 ENLARGED AREA PLAN - ELECTRICAL SITE PLAN 3
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E3.1	ELECTRICAL TITLE 24 EXTERIOR
E3.2	ELECTRICAL TITLE 24 EXTERIOR
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SS1.1	SHADE STRUCTURE ELEVATION
SS1.2	SHADE STRUCTURE ANCHOR BOLT LAYOUT
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T3	CALGREEN COMPLIANCE
A0.1	SHEET SPECIFICATIONS
A0.2	SHEET SPECIFICATIONS
A0.3	SHEET SPECIFICATIONS
A0.4	SHEET SPECIFICATIONS
A1	FLOOR, ROOF, + CEILING PLANS
A2	EXTERIOR ELEVATIONS
A3	SECTIONS
A4	DETAILS
A5	DOOR + FINISHES SCHEDULES
S0.1	STRUCTURAL NOTES
S0.2	STRUCTURAL NOTES
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E3	TITLE 24 COMPLIANCE FORMS
E4	TITLE 24 COMPLIANCE FORMS

CITY OF ROSEVILLE

CITY ENGINEER

DATE

CITY OF ROSEVILLE APPROVAL

Not for Construction
For Council Approval

GIBSON PARK

100% SUBMITTAL 05/20/2022

C0.1 COVER SHEET

DRAWING NAME: Y:\Projects\2021\2014500 - Gibson Park Ph 1 MP-Rosevills\CAD_cv.dwg
PLOT DATE: 05-20-22 PLOTTED BY: stefan46

GENERAL NOTES, CONTINUED

14. ANY ALTERATIONS OF EXISTING FACILITIES TO ACCOMMODATE THE INSTALLATION OF NEW WORK SHALL BE REVIEWED BY THE OWNER PRIOR TO COMMENCING WORK.

15. CONTRACTOR SHALL COORDINATE ALL WORK TO AVOID DISTURBING NEIGHBORHOOD RESIDENTS DURING WORK HOURS. ANY DISRUPTION OF THE UTILITIES MUST BE COORDINATED AND APPROVED BY THE OWNER AND INSPECTOR OF RECORD PRIOR TO COMMENCING WORK.

16. ALL TEMPORARY WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.

17. THE PLANS AND SPECIFICATIONS DO NOT UNDERTAKE TO SHOW OR LIST EVERY ITEM TO BE PROVIDED, BUT RATHER TO DEFINE THE REQUIREMENTS FOR A FULL AND WORKING SYSTEM FROM THE STANDPOINT OF THE END USER. FOR THIS REASON, WHEN AN ITEM NOT SHOWN OR LISTED IS CLEARLY NECESSARY FOR PROPER CONTROL/OPERATION OF EQUIPMENT WHICH IS SHOWN OR LISTED, THE CONTRACTOR SHALL PROVIDE AN ITEM WHICH WILL ALLOW THE SYSTEM TO FUNCTION PROPERLY AT NO INCREASE IN PRICE.

18. ALL CONTRACTORS SHALL REMOVE TRASH AND DEBRIS STEMMING FROM THEIR WORK ON A DAILY BASIS. PROJECT SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY CONDITION.

19. THE DETAILS REFLECT THE DESIGN INTENT FOR TYPICAL CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND SHALL INCLUDE, IN HIS SCOPE, THE COST FOR COMPLETE FINISHED INSTALLATIONS, INCLUDING ANOMALIES, OF ALL TRADES.

20. NO WORK SHALL COMMENCE WITH UNAPPROVED MATERIALS. ANY WORK DONE WITH UNAPPROVED MATERIALS AND EQUIPMENT IS AT THE CONTRACTOR'S RISK AND IS SUBJECT TO REJECTION AND REPLACEMENT. SEE SPECIFICATIONS FOR SUBMITTAL AND SUBSTITUTION REQUIREMENTS.

21. CONSTRUCTION MATERIALS STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED SO AS TO PREVENT DAMAGE OR DETERIORATION UNTIL USED. FAILURE IN THIS REGARD MAY BE CAUSE FOR REJECTION OF MATERIAL AND/OR WORK.

22. ALL EQUIPMENT SHALL BE FABRICATED FROM FIELD VERIFIED DIMENSIONS AND APPROVED SHOP DRAWINGS. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT.

23. CONTRACTOR SHALL PERFORM THEIR CONSTRUCTION AND OPERATIONS IN A MANNER WHICH WILL NOT ALLOW HARMFUL POLLUTANTS TO ENTER THE STORM DRAIN SYSTEM. TO ENSURE COMPLIANCE, THE CONTRACTOR SHALL IMPLEMENT THE APPROPRIATE BEST MANAGEMENT PRACTICE (BMP) AS OUTLINED IN THE BROCHURES ENTITLED "BEST MANAGEMENT PRACTICE FOR THE CONSTRUCTION INDUSTRY" ISSUED BY THE CALIFORNIA STORM WATER QUALITY ASSOCIATION, NONPOINT SOURCE POLLUTION CONTROL PROGRAM, AS FULL COMPLIANCE WITH THE STATE OF CALIFORNIA GENERAL PERMIT REQUIREMENT FOR SWPPP, TO SUIT THE CONSTRUCTION SITE AND JOB CONDITION. THE CONTRACTOR SHALL PRESENT HIS PROPOSED BMP AND SWPPP DOCUMENTATION AT THE PRECONSTRUCTION MEETING FOR DISCUSSION AND APPROVAL.

24. CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION FENCING PER CONTRACT DOCUMENTS TO SERVE LIMIT OF WORK AREAS. FENCING MAY BE ADJUSTED DURING CONSTRUCTION BASED ON CONSTRUCTION SEQUENCE OR THE OWNER'S DIRECTION.

25. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT IN THE STREET RIGHT-OF-WAY SHALL NOT BE PERMITTED.

26. ALL WORK PERFORMED ON THIS PROJECT SHALL CONFORM TO THE CITY OF ROSEVILLE PARKS CONSTRUCTION STANDARDS, LATEST EDITION UNLESS OTHERWISE NOTED.

PUBLIC IMPROVEMENT REQUIREMENTS

GRADING:

1. GRADING SHALL CONFORM TO APPENDIX CHAPTER 33 UBC, LATEST EDITION, AND TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING REPORT TITLED GEOTECHNICAL ENGINEERING REPORT GIBSON PARK. REFER TO ENGINEERING DIVISION FILE #308-_____ FOR SOILS REPORT.

2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS SPECIFIED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS PROJECT OR AS DETERMINED BY THE CITY INSPECTOR. THE SWPPP IS CONSIDERED A DYNAMIC DOCUMENT AND WILL CHANGE AS CONDITIONS WARRANT. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED AS SHOWN ON THE PRE-DEVELOPED SWPPP PLAN. REFER TO STORM WATER POLLUTION PREVENTION PLAN _____

3. LOTS SHALL BE GRADED WITH A CONSTANT SLOPE ALONG THE FRONTAGE OF THE RIGHT-OF-WAY, FROM BUILDING SETBACK LINE TO BACK OF SIDEWALK. ALL TEMPORARY AND PERMANENT SLOPES STEEPER THAN 4:1 ALONG THIS FRONTAGE SHALL HAVE EROSION NETTING INSTALLED.

4. ALL REAR LOT CORNER ELEVATIONS SHALL BE EQUAL TO OR GREATER THAN THE HIGHEST ADJACENT PAD GRADE UNLESS SPECIFICALLY SHOWN ON THESE PLANS AND APPROVED BY ENGINEERING DIVISION.

5. NON-POTABLE 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.

6. TARPAULINS OR OTHER EFFECTIVE COVERS SHALL BE USED ON ALL STOCKPILED EARTH MATERIAL AND ON HAUL TRUCKS TO MINIMIZE DUST.

7. THE CITY SHALL HAVE THE AUTHORITY TO STOP ALL GRADING OPERATIONS, IF, IN OPINION OF CITY STAFF, INADEQUATE DUST CONTROL MEASURES ARE BEING PRACTICED OR EXCESSIVE WIND CONDITIONS CONTRIBUTE TO FUGITIVE DUST EMISSIONS.

8. ADJACENT STREET FRONTAGES SHALL BE SWEPT AT LEAST ONCE A DAY TO REMOVE SILT AND OTHER DIRT WHICH IS EVIDENT FROM CONSTRUCTION ACTIVITIES. REFER TO SCHEDULES WITHIN SWPPP.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING CONSTRUCTION VEHICLES LEAVING THE SITE ON A DAILY BASIS TO PREVENT DUST, SILT AND DIRT FROM BEING RELEASED OR TRACKED OFFSITE. REFER TO SWPPP FOR SPECIFIC REQUIREMENTS.

10. CONSTRUCTION SHALL STOP IF CULTURAL RESOURCES ARE SUSPECTED. IT IS POSSIBLE THAT PREVIOUS ACTIVITIES HAVE OBSCURED SURFACE EVIDENCE OF CULTURAL RESOURCES. IF SIGNS OF AN ARCHEOLOGICAL SITE, SUCH AS ANY UNUSUAL AMOUNTS OF STONE, BONE, OR SHELL, ARE UNCOVERED DURING GRADING OR OTHER CONSTRUCTION ACTIVITIES, WORK SHALL BE HALTED WITHIN 100 FEET OF THE FIND AND THE ROSEVILLE COMMUNITY DEVELOPMENT DEPARTMENT SHALL BE NOTIFIED. A QUALIFIED ARCHEOLOGIST SHALL BE CONSULTED FOR AN ON-SITE EVALUATION. THE ARCHEOLOGIST MAY REQUIRE ADDITIONAL MITIGATION.

11. SHOULD GRADING OPERATIONS UNCOVER HAZARDOUS MATERIALS, OR WHAT APPEARS TO BE HAZARDOUS MATERIALS, THE FIRE DEPARTMENT SHALL BE CONTACTED IMMEDIATELY AT (916) 774-5820. THE AREA, WHICH CONTAINS THE HAZARDOUS MATERIALS, SHALL BE MARKED OFF UNTIL AN INVESTIGATION BY A MEMBER OF THE FIRE DEPARTMENT IS CONDUCTED.

12. GRADES SHOWN OUTSIDE OF THE PUBLIC RIGHT OF WAY WITHIN THE APPROVED GRADING PLAN ARE SUBJECT TO FURTHER REVIEW AND MODIFICATION BY THE BUILDING DIVISION FOR COMPLIANCE WITH THE UNIFORM BUILDING CODE AND STATE OF CALIFORNIA TITLE 24 HANDICAP ACCESSIBILITY REQUIREMENTS.

13. THE CONTRACTOR/DEVELOPER IS EXPECTED TO COMPLY WITH THE FUGITIVE DUST CONTROL REQUIREMENTS FROM THE PLACER COUNTY AIR POLLUTION CONTROL DISTRICT: WWW.PLACER.CA.GOV/APCD

14. CONTAMINATED SOIL - DEVELOPER AGREES TO PROPERLY ADHERE TO ALL THEN CURRENT STATE AND FEDERAL REQUIREMENTS WHEN ANY EVIDENCE OF TOXIC, HAZARDOUS OR CONTAMINATED SOILS ARE ENCOUNTERED DURING ANY AND ALL EXCAVATION OR GRADING OPERATIONS, AND TO INDEMNIFY, DEFEND AND HOLD HARMLESS THE CITY OR ROSEVILLE, ITS OFFICERS, AGENTS AND EMPLOYEES, FROM ANY AND ALL LIABILITY, COSTS, CLAIMS, FEES, FINES, PENALTIES AND CLAIMS OF OR DAMAGE OF ANY TYPE WHATSOEVER. EXTRA COSTS FOR REMEDIATION AND/OR REMOVAL OF SOIL SHALL BE BOURN SOLELY BY THE DEVELOPER. THE PARTIES INTEND THAT THIS PROVISION BE BROADLY CONSTRUED.

AIR QUALITY:

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 (VOC'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://NI/WW.LEGINFO.CA.GOV/CGI-BINDISPLAYCODESECTION-HSC&GROUP =39001-40000&FILE=39010-39060

EROSION / SEDIMENT CONTROL:

1. THE STATE'S GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (WQO 99-080-DWQ) REQUIRES THE PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR SITES WITH SOIL DISTURBANCES GREATER THAN OR EQUAL TO ONE ACRE, OR FROM SITES SMALLER THAN ONE ACRE IF THE CONSTRUCTION ACTIVITY IS PART OF A LARGER PLAN OF DEVELOPMENT OR SALE THAT DISTURBS ONE ACRE OR MORE. CONSTRUCTION ACTIVITY SHALL NOT COMMENCE, NOR A PRE-CONSTRUCTION MEETING PERMITTED TO BE SCHEDULED, PRIOR TO THE SWPPP BEING ACCEPTED BY THE CITY. FOR MORE INFORMATION SEE; HTTP://WWW.ROSEVILLE.CA.US/EU/STORMWATER_MANAGEMENT

2. THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS INCORPORATED BY REFERENCE INTO THIS SET OF PLANS (REFER TO GRADING NOTE #2, THIS SHEET). THE SWPPP IS CONSIDERED A DYNAMIC DOCUMENT AND WILL CHANGE AS CONDITIONS WARRANT. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED AS SHOWN ON THESE PLANS.

3. A COPY OF THE SWPPP SHALL BE KEPT AT THE PROJECT SITE AT ALL TIMES.

4. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS SPECIFIED IN THE SWPPP AND/OR AS DIRECTED BY CITY INSPECTOR.

5. 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 15 AND APRIL 15 EXCEPT AS APPROVED BY THE DEPARTMENT OF FISH AND GAME.

6. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN ACCORDANCE WITH THE SWPPP.

7. THE CONTRACTOR SHALL ESTABLISH A SPECIFIC SITE WITHIN THE DEVELOPMENT FOR MAINTENANCE AND STORAGE OF EQUIPMENT OR ANY OTHER ACTIVITY THAT MAY ADVERSELY CONTRIBUTE TO THE WATER QUALITY OF THE RUNOFF IN ACCORDANCE WITH THE SWPPP.

CITY OF ROSEVILLE 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. A.C. SURFACE SHALL BE CUT TO A NEAT, STRAIGHT LINE PARALLEL WITH THE STREET CENTERLINE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIAL SHALL BE GRADED, RE-COMPACTED, AND RESEALED PRIOR TO PAVING.

8. ANY EXISTING CONCRETE SURFACE TO BE REMOVED SHALL BE SAW CUT TO A NEAT, STRAIGHT LINE.

9. 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.

10. 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 EXISTING 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.

11. DRAIN INLETS NOT WITHIN A PAVED AREA SHALL HAVE A 12" WIDE COLLAR OF 6" THICK P.C.C. OR 2" THICK A.C. DRAIN INLETS INSTALLED IN MULCHED PLANTER AREAS SHALL HAVE A 12" WIDE COLLAR OF 2" TO 6" COBBLE PLACED OVER FILTER FABRIC.

12. 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.

13. THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION MEETING ONE-WEEK PRIOR TO STARTING WORK. MEMBERS OF THE CITY OF ROSEVILLE DEVELOPMENT SERVICES DEPARTMENT, ENVIRONMENTAL UTILITIES DEPARTMENT, CITY OF ROSEVILLE PARK DEVELOPMENT DIVISION, AND ALL OTHER UTILITY REPRESENTATIVES SHALL BE NOTIFIED BY THE CONTRACTOR AS TO THE DATE AND LOCATION OF THE MEETING.

14. 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.

15. ALL PAINTED TRAFFIC STRIPES, ARROWS, AND PAVEMENT MARKINGS SHALL BE CONSTRUCTED WITH THERMOPLASTIC MATERIAL TO THE SPECIFICATIONS SET FORTH IN CHAPTER 3 OF THE CALIFORNIA MUTCD LATEST EDITION. NON-REFLECTIVE PAVEMENT MARKERS SHALL CONSIST OF CERAMIC MARKERS ONLY CONFORMING TO CHAPTER 3 OF THE CALIFORNIA MUTCD LATEST EDITION.

16. 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.

17. WHERE COMBINATIONS OF SIDEWALK OR CURB AND GUTTER ARE PLACED CONTIGUOUS TO EXISTING, ALL ADJOINING EXISTING CONCRETE VERTICAL FACES SHALL BE DOWELED. ALL ABUTTING SIDEWALK ENDS SHALL BE DOWELED MID-SECTION VERTICALLY WITH TWO DOWELS FOR FOUR THROUGH SIX-FOOT WIDE SIDEWALK AND THREE DOWELS FOR WIDER SIDEWALK. ABUTTING CURB AND GUTTER ENDS SHALL BE DOWELED TWICE, 18 INCHES APART AT GUTTER PAN MID-SECTION. DOWEL CONNECTIONS OF LONGITUDINAL RUNS OF SIDEWALK TO BACK OF CURB SHALL BE THREE FEET ON CENTER. ALL DOWELS SHALL BE 16 INCHES LONG, GRADE 60, #4 REBAR PENETRATING FOUR INCHES. THE DOWEL HOLE SHALL BE 5/8-INCH DIAMETER AT A SLIGHT HORIZONTAL ANGLE FROM PERPENDICULAR. THE PENETRATING PORTION OF THE DOWEL AND THE ENTIRE (CLEANED) VERTICAL SURFACE OF THE ADJOINING, EXISTING CONCRETE SHALL BE THOROUGHLY COATED WITH STATE STANDARD TWO-PART EPOXY.

18. WHEN SAWCUTTING WITHIN THE STREET FOR TRENCHING OR OTHER PURPOSES, CONTRACTOR SHALL GRIND 1½" OF PAVEMENT BETWEEN THE LANE LINES (FROM LANE STRIPE TO LANE STRIPE) UPON COMPLETION OF THE SAWCUTTING AND OR TRENCHING WORK. WHERE THE SAWCUTTING OCCURS BETWEEN THE CURB AND GUTTER AND NEAREST LANE STRIPE (INCLUDING BIKE LANES), THE SAME 1 ½" GRIND SHALL BE REQUIRED. CONTRACTOR TO PLACE A PETROMAT FABRIC OR APPROVED EQUAL BY THE CITY OF ROSEVILLE AND OVERLAY FROM LANE STRIPE TO LANE STRIPE, OR CURB TO LANE STRIPE AND RESTRIPE OR REPLACE ANY DELINEATORS REMOVED DURING THE GRIND.

19. 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.

20. FOR RESIDENTIAL SUBDIVISIONS, UNLESS OTHERWISE APPROVED BY DEVELOPMENT SERVICES ENGINEERING, THE FINAL GRADING OF THE PROJECT SITE SHALL BE CONSTRUCTED TO ACCOMMODATE A MAXIMUM DRIVEWAY SLOPE OF 14% FOR EACH RESIDENTIAL LOT, AS MEASURED FROM THE BACK OF THE SIDEWALK TO THE GARAGE (20-FT SET BACK). IT WILL REMAIN THE RESPONSIBILITY OF THE BUILDERS/DEVELOPER TO DESIGN A HOUSE THAT PROVIDES SUITABLE ACCESS TO THE PARCEL.

21. THE CONTRACTOR SHALL PLACE FILTER FABRIC BETWEEN THE INITIAL BEDDING AND BACKFILL AND THE TRENCH BACKFILL FOR SANITARY SEWERS DEPTH GREATER THAN 15 FEET MEASURED TO THE PIPE INVERT.

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VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.5554
fax: 916.415.5525
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BRIDGES
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP

SHEET TITLE
PUBLIC IMPROVEMENT REQUIREMENT NOTES

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2[illegible]
75% SUBMITTAL	11/17/22
100% SUBMITTAL	03/30/22

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
JC	CS
DATE ISSUED	SCALE
05/20/2022	N/A

PROJ. NO.
2014500

SHEET NO.
C0.2 OF SHEETS

Not for Construction
For Council Approval

PUBLIC IMPROVEMENT REQUIREMENTS, CONTINUED

GENERAL FIRE DEPARTMENT NOTES

1. AN APPROVED PROJECT SIGN SHALL BE PLACED AT VEHICLE ACCESS POINTS INTO THE PROJECT DURING CONSTRUCTION TO ASSIST EMERGENCY RESPONDERS. THE SIGN SHALL IDENTIFY THE ADDRESS, AS APPROVED BY THE CITY OF ROSEVILLE. SUCH SIGNS SHALL BE CLEARLY VISIBLE AND LEGIBLE FROM THE STREET FRONTING THE PROJECT.

2. PRIOR TO COMBUSTIBLE MATERIALS BEING BROUGHT TO THE SITE, FIRE APPARATUS ACCESS ROADS SHALL BE PROVIDED TO WITHIN 150 FEET OF ALL STRUCTURES AND COMBUSTIBLE STORAGE PILES. FIRE APPARATUS ACCESS ROADS SHALL BE FULLY PAVED AND SHALL BE DESIGNED TO SUPPORT THE IMPOSED WEIGHT OF A FIRE APPARATUS (34 TONS GVW), UNLESS PRIOR APPROVAL IS OBTAINED FROM THE FIRE DEPARTMENT FOR TEMPORARY ACCESS ROADS. ACCESS ROADS SHALL BE PROVIDED WITH A MINIMUM 20-FOOT ROADWAY WIDTH AND 13 FOOT 6 INCH VERTICAL CLEARANCE.

3. 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.

4. CONSTRUCTION MATERIAL AND VEHICLES SHALL NOT OBSTRUCT FIRE APPARATUS ACCESS TO FIRE APPARATUS ROADS, FIRE HYDRANTS OR THE BUILDING.

5. 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.

6. PROVIDE AND MAINTAIN A MINIMUM 3-FOOT CLEAR SPACE AROUND FIRE PROTECTION EQUIPMENT.

7. THE BURNING OF COMBUSTIBLE CONSTRUCTION MATERIALS AND TRASH IS PROHIBITED.

8. ASPHALT AND TAR KETTLES SHALL NOT BE LOCATED WITHIN 20 FEET OF ANY COMBUSTIBLE MATERIAL, COMBUSTIBLE BUILDING SURFACE OR BUILDING OPENING. AN ATTENDANT SHALL BE WITHIN 100 FEET OF A KETTLE WHEN THE HEAT SOURCE IS OPERATING. A MINIMUM OF ONE (1) 20lb:C PORTABLE FIRE EXTINGUISHER SHALL BE LOCATED WITHIN 30 FEET OF THE KETTLE, AND ON THE ROOF DURING ASPHALT COATING OPERATIONS.

9. 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.

10. 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.

11. 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.

12. FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CHAPTER 33 OF THE CALIFORNIA FIRE CODE.

13. ADEQUATE RADIO COVERAGE SHALL BE PROVIDED WITHIN BUILDINGS FOR PUBLIC SAFETY AGENCIES, AS REQUIRED BY FIRE CODE.

14. PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN OCCUPANCIES AND LOCATIONS AS SET FORTH IN THE CALIFORNIA FIRE CODE AND AS REQUIRED BY THE CHIEF. PROVIDE A MINIMUM OF ONE (1) PORTABLE FIRE EXTINGUISHER WITHIN EACH TENANT SPACE. THE MAXIMUM TRAVEL DISTANCE TO THE FIRE EXTINGUISHER SHALL NOT EXCEED 75-FEET. THE MINIMUM RATING CLASSIFICATION FOR THE EXTINGUISHER SHALL BE NOT LESS THAN 2A-10B:C. THE MAXIMUM TRAVEL DISTANCE FROM ANY POINT IN A LIGHT HAZARD AREA OF CLASS A HAZARDS SHALL NOT BE MORE THAN 75 FEET FROM A CLASS 2A-10B:C. FIRE EXTINGUISHER AND ONE EXTINGUISHER SHALL BE PROVIDED FOR EACH 6,000 SQUARE FEET. THE MAXIMUM TRAVEL DISTANCE FROM ANY POINT IN AN ORDINARY HAZARD OF CLASS A HAZARDS AREA SHALL NOT BE MORE THAN 75 FEET AND ONE EXTINGUISHER SHALL BE PROVIDED FOR EACH 3,000 SQUARE FEET. THE MAXIMUM TRAVEL DISTANCE TO CLASS B EXTINGUISHERS IS EITHER 30 FEET OR 50 FEET DEPENDING UPON THE SIZE OF THE EXTINGUISHER AND THE CLASSIFICATION OF THE HAZARD. REFER TO UFC STANDARD NO. 10-1 FOR COMPLETE REQUIREMENTS. ALL PORTABLE FIRE EXTINGUISHERS SHALL HAVE A SERVICE TAG AFFIXED TO THEM SHOWING THAT THE EXTINGUISHER HAS BEEN SERVICED BY A CALIFORNIA STATE LICENSED FIRE EXTINGUISHER CONCERN. ALL FIRE EXTINGUISHERS SHALL BE ATTACHED TO A BRACKET OR WITHIN AN APPROVED CABINET. MAXIMUM DISTANCE FROM THE FLOOR SHALL NOT EXCEED 54-INCHES. SIGNAGE SHALL BE POSTED ABOVE THE EXTINGUISHER AND SHALL READ FIRE EXTINGUISHER.

15. THE REQUIRED MINIMUM FIRE FLOW FOR THE PROTECTION OF THE PROPOSED PROJECT IS ___ GALLONS PER MINUTE WITH 20 POUNDS PER SQUARE INCH RESIDUAL WATER PRESSURE REMAINING IN THE SYSTEM. A CHANGE IN ANY OF THE CONDITIONS MAY INCREASE THE REQUIRED FIRE FLOW.

16. ALL UNDERGROUND FIRE LINE SHALL BE HYDRAULICALLY PRESSURED AT 200 PSI FOR TWO-HOURS PER THE NFPA STANDARD FOR UNDERGROUND FIRE WATER LINE. AN INSPECTION SHALL BE REQUIRED TO WITNESS THE TEST WITH A SUBSEQUENT INSPECTION AFTER THE TWO-HOUR DURATION HAS EXPIRED.

17. 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.

18. SECTION 10.6.2 OF NFPA 24 HAS BEEN AMENDED NOT TO ALLOW MECHANICAL JOINTS UNDER BUILDINGS. SEE CHAPTER 80 OF THE CALIFORNIA FIRE CODE, PAGE 519. PROVIDE DETAIL OF THE PROPOSED RISER AND UNDERGROUND DETAIL TO THE PAD.

19. CIVIL IMPROVEMENT PLANS SHALL BE RESUBMITTED IF IT HAS BEEN DETERMINED BY THE APPLICANT THAT AN ON-SITE FIRE PUMP WILL BE REQUIRED AS THE RESULT OF SUPPLYING 100 PSI RESIDUAL PRESSURE AT THE STANDPIPE ROOF OUTLET ACCORDANCE WITH NFPA 14, STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS.

20. THE SUBMITTED PRIVATE UNDERGROUND FIRE LINE SHALL BE REVIEWED AND APPROVED BY THE ENVIRONMENTAL UTILITIES DEPARTMENT (EUD) IN CONJUNCTION WITH THE FIRE DEPARTMENT (RFD) PRIOR TO REQUESTING FOR THE REQUIRED INSPECTION FROM THE RFD. THE FIRE SPRINKLER PLANS WILL NOT BE APPROVED BY THE RFD UNTIL THE UNDERGROUND SERVICE LATERAL HAS BEEN INSPECTED AND ACCEPTED BY THE RFD.

21. ALL PROPOSED BURIED BOLTS SHALL BE COATED WITH A LISTED PRODUCT SUCH AS CHRISTY'S HD-50.

22. ACCORDING TO NFPA 13, 6.3.1.1.1, THE UNDERGROUND FIRE LINE CANNOT EXTEND INTO THE BUILDING FURTHER THAN 24 INCHES.

23. AN 18 AWG MINIMUM GAUGE TRACER WIRE SHALL BE INSTALLED ALONG ALL NON-METALLIC UNDERGROUND PIPING IN ACCORDANCE WITH SECTION 604 OF THE CALIFORNIA PLUMBING CODE. NOTATIONS SHALL BE MADE ON THE RESUBMITTAL.

24. FIRE DEPARTMENT CONNECTION(S) SHALL BE WITHIN 2-FEET OF BACK OF CURB OR BACK OF WALKWAY, AND SHALL REMAIN UNOBSTRUCTED AT ALL TIMES.

25. ALL FIRE DEPARTMENT CONNECTIONS SHALL BE LABELED WITH THE APPROPRIATE ADDRESS.

26. MECHANICAL JOINTS SHALL BE INSTALLED AT AREAS NOTED PER THE EBBA THRUST RESTRAINT DESIGN PROGRAM SPECIFICATIONS.

27. CONDUITS SHALL BE INSTALL AND AVAILABLE FOR FUTURE MONITORING OF ALL FIRE PROTECTION DEVICES.

28. ALL WORK SHALL BE INSPECTED BY THE FIRE DEPARTMENT PRIOR TO INSTALLING GROUND MATERIALS.

29. TO SCHEDULE A FIRE DEPARTMENT INSPECTION FOR ANY ON-SITE WORK, FOLLOW THE DIRECTIONS USING THE CITY OF ROSEVILLE CITIZEN PORTAL AT PERMITSONLINE.ROSEVILLE.CA.US. THE FOLLOWING BD NUMBER BELOW SHALL BE USED WHEN SCHEDULING A FIRE DEPARTMENT INSPECTION. A BD NUMBER WILL BE ISSUED UPON APPROVAL. ALL INQUIRING REGARDING INSPECTIONS AND PERMIT FEES SHALL BE MADE BY CALLING (916) 774-5332. BD_____.

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.8552
fax: 916.415.8625
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARSNICK
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP

SHEET TITLE
PUBLIC IMPROVEMENT REQUIREMENT NOTES

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2[illegible]
75% SUBMITTAL	01/17/22
100% SUBMITTAL	03/30/22

NO	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
JC	CS
DATE ISSUED: 05/20/2022	SCALE: N/A
PROJ. NO.: 2014500	
SHEET NO.: C0.3 OF SHEETS	

Not for Construction
For Council Approval

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

PARKING INFORMATION

	NON-ACCESSIBLE STALLS	PROPOSED ACCESSIBLE STALLS	REQUIRED ACCESSIBLE STALLS*	TOTAL ACCESSIBLE STALLS
PARKING LOT	386	5A, 3V	8	8
TOTAL PARKING PROVIDED				394

*NUMBER OF REQUIRED ACCESSIBLE STALLS PER CBC 11B-208.2

ACCESSIBILITY LEGEND

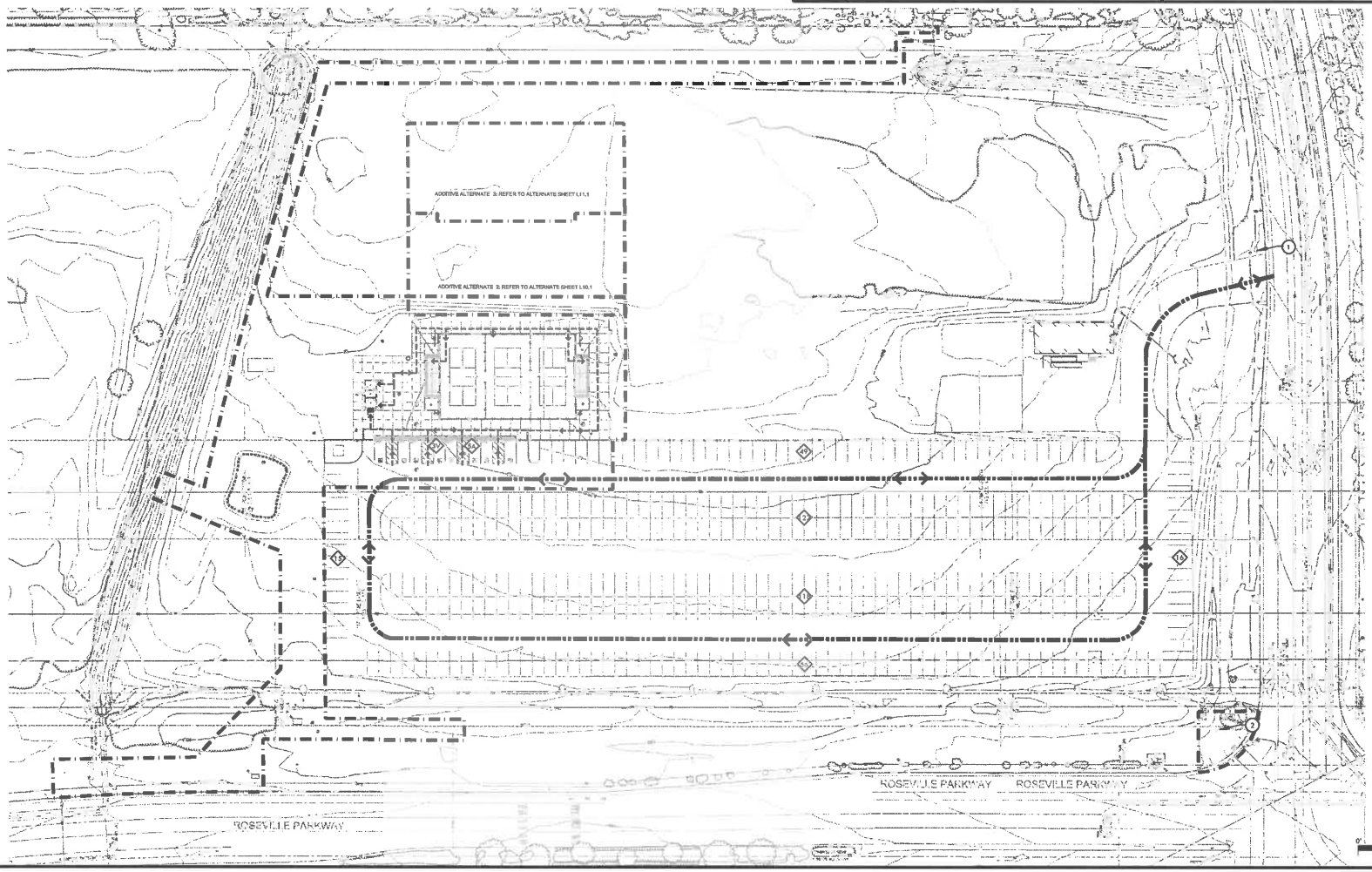
SYM	DESCRIPTION
(E)	EXISTING FIRE HYDRANT
4	NUMBER OF EXISTING PARKING STALLS
4A	NUMBER OF PROPOSED ACCESSIBLE PARKING STALLS
4VA	NUMBER OF PROPOSED VAN ACCESSIBLE PARKING STALLS
1	EXISTING TOW AWAY SIGN
2	NEW PARK IDENTIFICATION SIGN (1/D2.1)

ACCESSIBILITY LEGEND

SYM	DESCRIPTION
	PROJECT LIMIT OF WORK
	ADA ACCESSIBLE PATH OF TRAVEL (4 FT. MIN. WIDTH @ 5%=5% MAX.)
	ADA ACCESSIBLE POINT OF ENTRY
	VEHICULAR ACCESS (24 FT. MIN. WIDTH - ARROWS INDICATE TRAVEL DIRECTION)
	FIRE DEPARTMENT ACCESS - FIRE DEPARTMENT ACCESS IS 20' AND RATED 96,000 LBS
	TRUNCATED DOMES, REFER TO DETAIL H, SHEET D3.1.
DF	NEW DRINKING FOUNTAIN, REFER TO DETAIL G, SHEET D1.1

ACCESSIBILITY PLAN NOTES

1. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING ¼" BEVELED AT 1:2 MAX. SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING ½" MAX. AND A LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.
2. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
3. ACCESSIBLE PARKING
SIGNAGE REQUIREMENTS. THE AMENDED REGULATIONS INDICATE THAT THE SIGNAGE AT ACCESSIBLE PARKING SPACES SHALL INCLUDE "MINIMUM FINE $250" BELOW THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AS EITHER AN ADDITIONAL SIGN OR ADDITIONAL LANGUAGE. THIS FINE POSTING REQUIREMENT IS IN ADDITION TO OTHER SIGNAGE REGULATIONS CONTAINED IN THE CALIFORNIA BUILDING CODE FOR ACCESSIBLE PARKING SPACES.
4. STRIPING REQUIREMENTS.
THE REVISED REGULATIONS INDICATE THAT THE ACCESSIBLE PARKING SPACE STRIPING SHALL BE AS FOLLOWS. THE BORDER (PERIMETER) SHALL BE PAINTED BLUE. THE HATCHING WITHIN THE LOADING AND UNLOADING ACCESS AISLE SHALL BE PAINTED A SUITABLE CONTRASTING COLOR TO THE PARKING SPACE AT 3'-0" MAXIMUM ON CENTER. BLUE OR WHITE PAINT IS PREFERRED.



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REGISTERED LANDSCAPE ARCHITECT
MARK E. ENTREKIN
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP

SHEET TITLE
ACCESSIBILITY PLAN

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/24/21
75% SUBMITTAL	01/17/22
100% SUBMITTAL	05/20/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
AC	CS
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PROJ. NO.: 2014500	
SHEET NO.: L0.1 OF SHEETS	

ACCESSIBILITY PLAN

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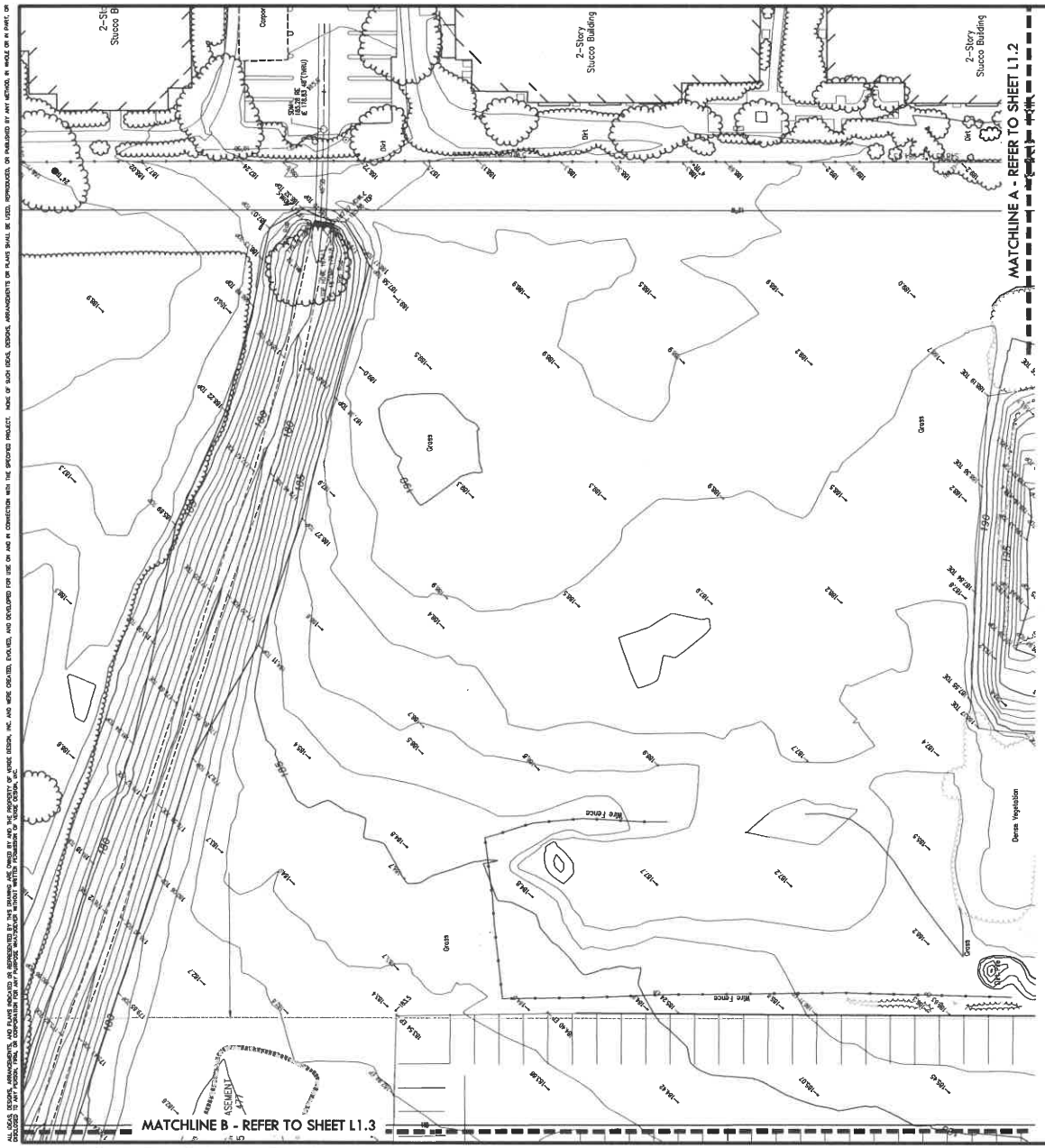

EXISTING CONDITIONS NOTES

1. THE BOUNDARY SHOWN HEREON IS BASED SOLELY UPON THE FOLLOWING INFORMATION:

   RECORD OF SURVEY NO. 2304; FILED FOR RECORD ON MARCH 30, 2001 IN BOOK 18 OF SURVEYS, AT PAGE 119

   EASEMENTS AND OTHER ENCUMBRANCES, IF ANY, ARE NOT SHOWN.

2. ALL DISTANCES AND ELEVATIONS SHOWN HEREON ARE IN FEET AND DECIMALS THEREOF.

3. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. (A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES). HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS.

4. THIS SURVEY DOES NOT SHOW THE LOCATIONS OF THE FOLLOWING UNDERGROUND UTILITY LINES DUE TO THE FACT THAT THE CLIENT HAS NOT FURNISHED KIER & WRIGHT CIVIL ENGINEERS & SURVEYORS, INC. WITH ANY PLANS THAT DELINEATE THEIR LOCATIONS: ALL TELEPHONE LINES, NITROGEN LINES, (IF ANY) ALL PARTIES SHOULD CONSIDER THIS SURVEY AS PRELIMINARY WITH REGARDS TO THE LOCATION OF THE UTILITY FACILITIES. UPON RECEIPT OF THIS INFORMATION KIER & WRIGHT WILL UPDATE THIS SURVEY AND RESSUE IT.

5. PHYSICAL ITEMS SHOWN ON THIS SURVEY ARE LIMITED TO THOSE ITEMS VISIBLE AS OF THE DATE OF THIS SURVEY. SUBSURFACE STRUCTURES, IF ANY, ARE NOT SHOWN. SAID SUBSURFACE OBJECTS MAY INCLUDE, BUT ARE NOT LIMITED TO, CONCRETE FOOTINGS, SLABS, SHORING, STRUCTURAL PILES, UTILITY VAULTS, PIPING, UNDERGROUND TANKS, AND ANY OTHER SUBSURFACE STRUCTURES NOT REVEALED BY A SURFACE INSPECTION.

6. BENCHMARK:
   CITY OF ROSEVILLE BENCHMARK (#67 BEING A 3.25" BRASS DISK STAMPED 2008 PLS 8278, TOP OF CURB WEST SIDE OF D.I. ON SOUTH SIDE OF ROSEVILLE PARKWAY, APPROX. 270'± EAST OF SOUTH INTERSECTION OF GIBSON DRIVE.
   ELEVATION= 173.65' (NAVD 88)

7. BASIS OF BEARINGS:
   THE BEARING OF NORTH 49° 09' 11" WEST TAKEN ON THE MONUMENT LINE OF ROSEVILLE PARKWAY AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NUMBER 2304, FILED FOR RECORD ON MARCH 30, 2001 IN BOOK 18 OF SURVEYS AT PAGE 119, OFFICIAL RECORDS OF PLACER COUNTY WAS TAKEN AS THE BASIS FOR ALL BEARINGS SHOWN HEREON.

8. CORNER RECORD NOTE:
   THE DEVELOPER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND FILING OF PRE-CONSTRUCTION AND POST-CONSTRUCTION CORNER RECORDS FOR ANY MONUMENTS OR PROPERTY CORNERS SHOWN HEREON THAT MAY BE DESTROYED DURING IMPROVEMENTS TO THE SUBJECT PROPERTY AS DEFINED IN SECTION 8771(b) OF THE PROFESSIONAL LAND SURVEYORS ACT.

9. THE AERIAL MAPPING WAS PREPARED USING COMPUTER ASSISTED PHOTOGRAMMETRIC METHODS BY COOPER AERIAL SURVEYS CO., IN PHOENIX ARIZONA, JOB NUMBER 20110226. IN AREAS OF DENSE VEGETATION, ACCURACY OF CONTOURS MAY DEVIATE FROM ACCEPTED ACCURACY STANDARDS. DATE OF PHOTOGRAPHY 11-28-2020. ORIGINAL COMPILED MAP SCALE 1"=40', CONTOUR INTERVAL 1 FOOT. THE GRID IS BASED ON PHOTOGRAMMETRIC METHODS COMPILED ON DIGITAL STEREO WORKSTATIONS USING AERIAL PHOTOGRAPHY. CONTROL SURVEY PERFORMED BY KIER & WRIGHT, LIVERMORE, CA.

EXISTING CONDITIONS LEGEND

- BUILDING LINE
- BARRICADE
- CENTERLINE
- CONCRETE/BLOCK WALL
- CONCRETE CURB
- CONCRETE CURB & GUTTER
- MAJOR CONTOUR LINE
- MINOR CONTOUR LINE
- DRIVEWAY
- EASEMENT LINE
- EDGE OF PAVEMENT
- EDGE OF WATER/FLOWLINE
- EDGE OF ROCK
- ELECTRIC LINE
- FENCE LINE
- FIBER OPTICS LINE
- GAS LINE-VALVE & METER
- JOINT TRENCH LINE
- LOT LINE
- MONUMENT/ANONUMENT LINE
- OVERHEAD POWER LINE
- PROPERTY LINE
- RECLAIMED WATER LINE & VALVE
- SANITARY SEWER LINE-MANHOLE & CLEANOUT
- SIDEWALK
- SPOT ELEVATION
- STORM DRAIN LINE-MANHOLE & CATCH BASIN
- STORM DRAIN LINE OVER 24"DIAMETER
- STREET LIGHT CONDUIT LINE
- TELEPHONE LINE
- CABLE TELEVISION LINE
- UNKNOWN UTILITY LINE
- WATER LINE & VALVE
- ACCESSIBLE PARKING SYMBOL
- BACKFLOW PREVENTION DEVICE
- ELECTROLIER
- FIRE DEPARTMENT CONNECTION
- FIRE HYDRANT
- GAS METER
- GUY ANCHOR
- POWER POLE/JOINT POLE
- REBAR FOUND
- TRANSFORMER
- TRAFFIC SIGNAL POLE
- TRAFFIC SIGN
- TREE
- UTILITY BOX
- WATER VALVE
- WELL

ABBREVIATIONS

BC	BACK OF CURB	MW	MONITORING WELL
BEG	BEGIN	N	NORTH
BLRD	BOLLARD	NW	NORTH WEST
BR	BOTTOM OF RAMP	OH	OVERHEAD
BS	BOTTOM OF STAIR	(P)	PER PLAN
BW	BACK OF WALK	PED	PEDESTAL
C-FC	CONCRETE AT FACE OF CURB	PP	POWER POLE
CB	CATCH BASIN	RE	RIM ELEVATION
DI	DRAIN INLET	S	SOUTH
E	EAST	SD	STORM DRAIN
EB	ELECTRIC BOX	SDMH	STORM DRAIN MANHOLE
EP	EDGE OF PAVEMENT	SE	SOUTH EAST
EW	EDGE OF WALK	SL	STREET LIGHT
FD	FOUND	SLB	STREET LIGHT BOX
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FL	FLOW LINE	SW	SOUTH WEST
FO	FIBER OPTICS	TC	TOP OF CURB
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FW	FACE OF WALL	TOE	GRADE BREAK LINE TOE
GB	GRADE BREAK	TOP	GRADE BREAK LINE TOP
HDBL	HEADBALL	TR	TOP OF RAMP
IB	IRRIGATION BOX	TS	TOP OF STAIR
IE	INVERT ELEVATION	TSB	TRAFFIC SIGNAL BOX
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MH	MANHOLE	W	WEST
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tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

LICENSED LAND SURVEYOR — BEAM A. JURKOV — No. 9032 — STATE OF CALIFORNIA

1/18/21
PREPARED BY OR UNDER THE SUPERVISION OF — DATE
BEAM A. JURKOV, LS 9032
LICENSE EXPIRES 12-31-19

CONSULTANT

KIER+WRIGHT
2850 Collier Canyon Road
Livermore, CA 94551
Phone: (925) 245-8788
www.kierwright.com

SHEET TITLE
EXISTING CONDITIONS PLAN

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/24/21
75% SUBMITTAL	01/17/22
100% SUBMITTAL	05/20/22

NO.	REVISIONS	DATE

DRAWN BY: -
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DATE ISSUED: 05/20/2022
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PROJ. NO.: 2014500
SHEET NO.: L1.1 OF SHEETS

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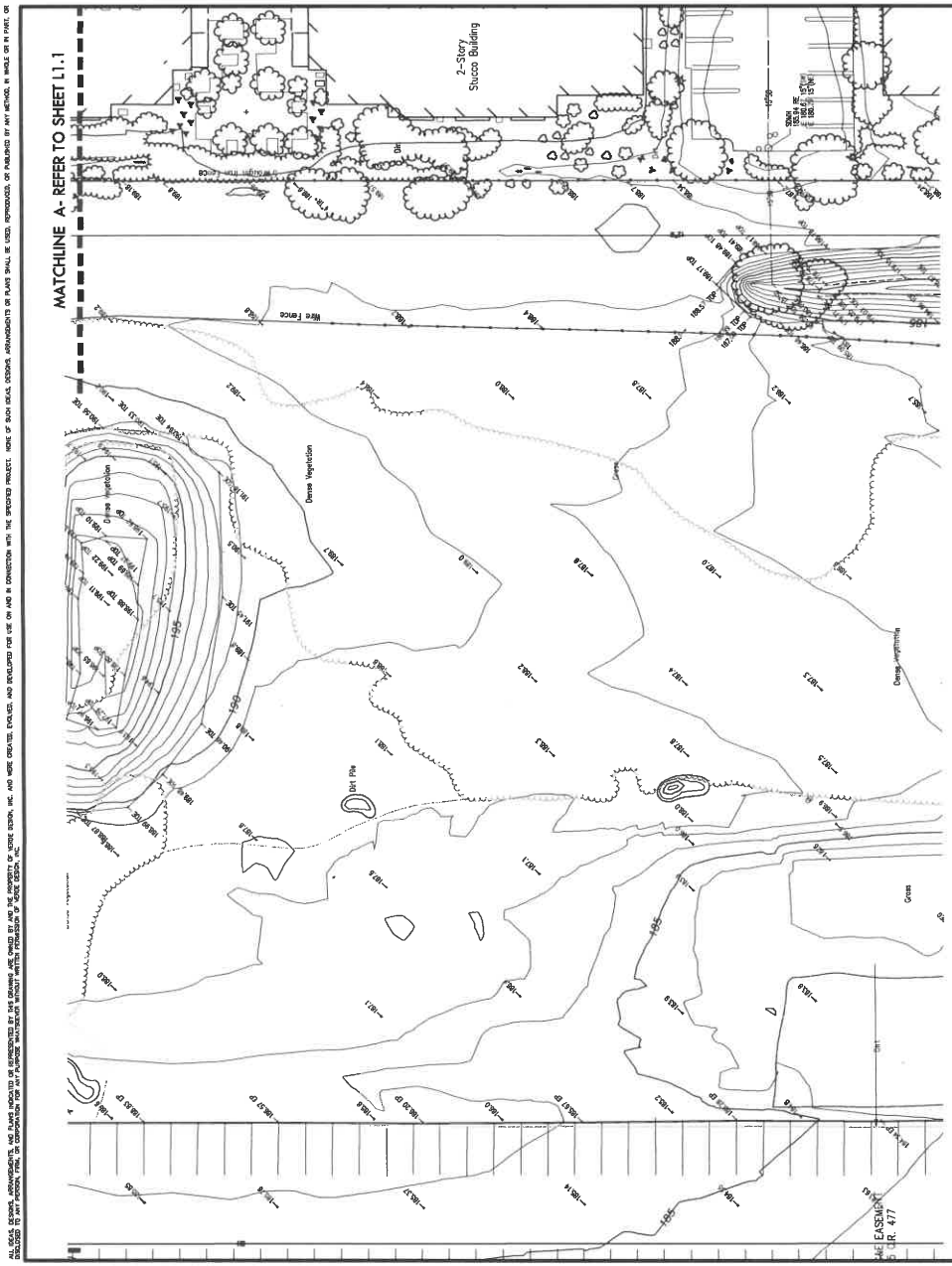

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6. BENCHMARK:
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   ELEVATION= 173.85' (NAVD 88)

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9. THE AERIAL MAPPING WAS PREPARED USING COMPUTER ASSISTED, PHOTOGRAMMETRIC METHODS BY COOPER AERIAL SURVEYS CO., IN PHOENIX ARIZONA, JOB NUMBER 201026. IN AREAS OF DENSE VEGETATION, ACCURACY OF CONTOURS MAY DEVIATE FROM ACCEPTED ACCURACY STANDARDS. DATE OF PHOTOGRAPHY 11-25-2020, ORIGINAL COMPILED MAP SCALE 1"=40', CONTOUR INTERVAL 1 FOOT. THE GRID IS BASED ON PHOTOGRAMMETRIC METHODS COMPILED ON DIGITAL STEREO WORKSTATIONS USING AERIAL PHOTOGRAPHY. CONTROL SURVEY PERFORMED BY KIER & WRIGHT, LIVERMORE, CA.

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CENTERLINE
CONCRETE/BLOCK WALL
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EASEMENT LINE
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EDGE OF WATER/FLOWLINE
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FIRE HYDRANT
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WATER VALVE
WELL

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STAMP

LICENSED LAND SURVEYOR DEAN A. JORDAN No. 9032 STATE OF CALIFORNIA

PREPARED BY OR UNDER THE SUPERVISION OF DEAN A. JORDAN, L.S. 9032
LICENSE EXPIRES 12-31-19

1/18/21
DATE

CONSULTANT

KIER+WRIGHT
2850 Collier Canyon Road
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Phone: (925) 245-8788
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SHEET TITLE
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2014500

SHEET NO.
L1.2 OF SHEETS

EXISTING CONDITIONS PLAN

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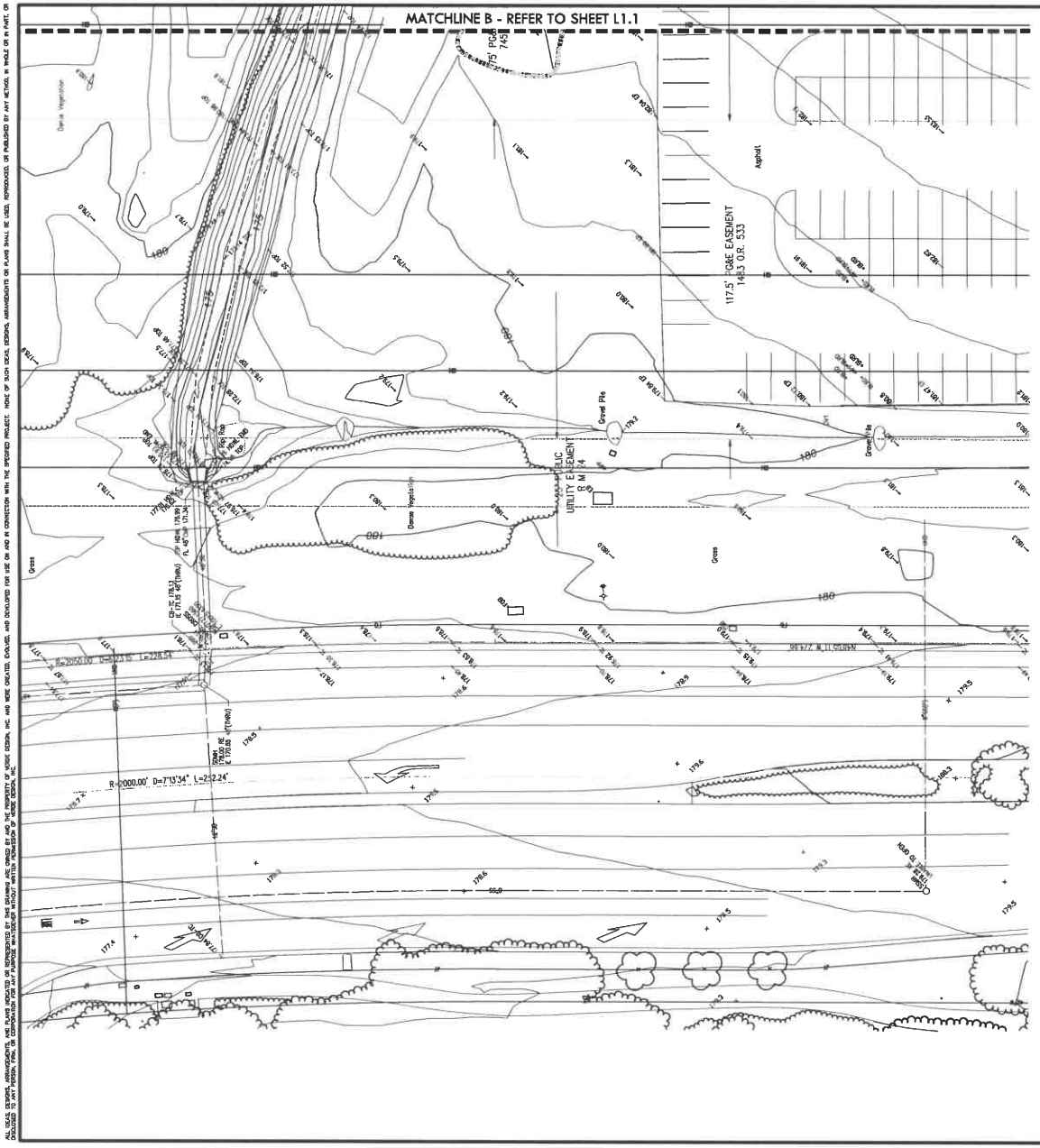

EXISTING CONDITIONS NOTES

1. THE BOUNDARY SHOWN HEREON IS BASED SOLELY UPON THE FOLLOWING INFORMATION:
   RECORD OF SURVEY NO. 2304; FILED FOR RECORD ON MARCH 30, 2004 IN BOOK 18 OF SURVEYS, AT PAGE 119
   EASEMENTS AND OTHER ENCUMBRANCES, IF ANY, ARE NOT SHOWN.
2. ALL DISTANCES AND ELEVATIONS SHOWN HEREON ARE IN FEET AND DECIMALS THEREOF.
3. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. (A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES), HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS.
4. THIS SURVEY DOES NOT SHOW THE LOCATIONS OF THE FOLLOWING UNDERGROUND UTILITY LINES DUE TO THE FACT THAT THE CLIENT HAS NOT FURNISHED KIER & WRIGHT CIVIL ENGINEERS & SURVEYORS, INC. WITH ANY PLANS THAT DELINEATE THEIR LOCATIONS: ALL TELEPHONE LINES, INTERCOM LINES, (IF ANY) ALL PARTIES SHOULD CONSIDER THIS SURVEY AS PRELIMINARY WITH REGARDS TO THE LOCATION OF THE UTILITY FACILITIES. UPON RECEIPT OF THIS INFORMATION KIER & WRIGHT WILL UPDATE THIS SURVEY AND REISSUE IT.
5. PHYSICAL ITEMS SHOWN ON THIS SURVEY ARE LIMITED TO THOSE ITEMS VISIBLE AS OF THE DATE OF THIS SURVEY. SUBSURFACE STRUCTURES, IF ANY, ARE NOT SHOWN. SAID SUBSURFACE OBJECTS MAY INCLUDE, BUT ARE NOT LIMITED TO, CONCRETE FOOTINGS, SLABS, SHORING, STRUCTURAL PILES, UTILITY VAULTS, PIPING, UNDERGROUND TANKS, AND ANY OTHER SUBSURFACE STRUCTURES NOT REVEALED BY A SURFACE INSPECTION.
6. BENCHMARK:
   CITY OF ROSEVILLE BENCHMARK #47 BEING A 3.25" BRASS DISK STAMPED 2016 PLS 6370, TOP OF CURB WEST SIDE OF D.I. ON SOUTH SIDE OF ROSEVILLE PARKWAY, APPROX 270'± EAST OF SOUTH INTERSECTION OF GIBSON DRIVE.
   ELEVATION= 173.65' (NAVD 88)
7. BASIS OF BEARINGS:
   THE BEARING OF NORTH 49° 05' 11" WEST TAKEN ON THE MONUMENT LINE OF ROSEVILLE PARKWAY AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NUMBER 2304, FILED FOR RECORD ON MARCH 30, 2004 IN BOOK 18 OF SURVEYS AT PAGE 119, OFFICIAL RECORDS OF PLACER COUNTY WAS TAKEN AS THE BASIS FOR ALL BEARINGS SHOWN HEREON.
8. CORNER RECORD NOTE:
   THE DEVELOPER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND FILING OF PRE-CONSTRUCTION AND POST-CONSTRUCTION CORNER RECORDS FOR ANY MONUMENTS OR PROPERTY CORNERS SHOWN HEREON THAT MAY BE DISTURBED DURING IMPROVEMENTS TO THE SUBJECT PROPERTY AS DEFINED IN SECTION 8771(B) OF THE PROFESSIONAL LAND SURVEYORS ACT.
9. THE AERIAL MAPPING WAS PREPARED USING COMPUTER ASSISTED, PHOTOGRAMMETRIC METHODS BY COOPER AERIAL SURVEYS CO., IN PHOENIX, ARIZONA. JOB NUMBER 20170226. IN AREAS OF DENSE VEGETATION, ACCURACY OF CONTOURS MAY DEVIATE FROM ACCEPTED ACCURACY STANDARDS. DATE OF PHOTOGRAPHY 11-25-2020. ORIGINAL COMPILED MAP SCALE 1"=40', CONTOUR INTERVAL 1 FOOT. THE GRID IS BASED ON PHOTOGRAMMETRIC METHODS COMPILED ON DIGITAL STEREO WORKSTATIONS USING AERIAL PHOTOGRAPHY. CONTROL SURVEY PERFORMED BY KIER & WRIGHT, LIVERMORE, CA.

EXISTING CONDITIONS LEGEND

- BUILDING LINE
- BARRICADE
- CENTERLINE
- CONCRETE/BLOCK WALL
- CONCRETE CURB
- CONCRETE CURB & GUTTER
- MAJOR CONTOUR LINE
- MINOR CONTOUR LINE
- DRIVEWAY
- EASEMENT LINE
- EDGE OF PAVEMENT
- EDGE OF WATER/FLOWLINE
- EDGE OF ROCK
- ELECTRIC LINE
- FENCE LINE
- FIBER OPTICS LINE
- GAS LINE-VALVE & METER
- JOINT TRENCH LINE
- LOT LINE
- MONUMENT/MONUMENT LINE
- OVERHEAD POWER LINE
- PROPERTY LINE
- RECLAIMED WATER LINE & VALVE
- SANITARY SEWER LINE-MANHOLE & CLEANOUT
- SIDEWALK
- SPOT ELEVATION
- STORM DRAIN LINE-MANHOLE & CATCH BASIN
- STORM DRAIN LINE OVER 24"DIAMETER
- STREET LIGHT CONDUIT LINE
- TELEPHONE LINE
- CABLE TELEVISION LINE
- UNKNOWN UTILITY LINE
- WATER LINE & VALVE
- ACCESSIBLE PARKING SYMBOL
- BACKFLOW PREVENTION DEVICE
- ELECTROLIER
- FIRE DEPARTMENT CONNECTION
- FIRE HYDRANT
- GAS METER
- GUY ANCHOR
- POWER POLE/JOINT POLE
- REBAR FOUND
- TRANSFORMER
- TRAFFIC SIGNAL POLE
- TRAFFIC SIGN
- TREE
- UTILITY BOX
- WATER VALVE
- WELL

ABBREVIATIONS

BC	BACK OF CURB	MW	MONITORING WELL
BCR	BEGIN CURB RETURN	N	NORTH
BLRD	BOLLARD	NW	NORTH WEST
BR	BOTTOM OF RAMP	OH	OVERHEAD
BS	BOTTOM OF STAIR	(P)	PER PLAN
BW	BACK OF WALK	PED	PEDESTAL
C-FC	CONCRETE AT FACE OF CURB	PP	POWER POLE
CB	CATCH BASIN	RE	RIM ELEVATION
DI	DRAIN INLET	S	SOUTH
E	EAST	SD	STORM DRAIN
EB	ELECTRIC BOX	SDMH	STORM DRAIN MANHOLE
EP	EDGE OF PAVEMENT	SE	SOUTH EAST
EW	EDGE OF WALK	SL	STREET LIGHT
FD	FOUND	SLB	STREET LIGHT BOX
FH	FIRE HYDRANT	SSMH	SANITARY SEWER MANHOLE
FL	FLOW LINE	SW	SOUTH WEST
FO	FIBER OPTICS	TC	TOP OF CURB
FOB	FIBER OPTIC BOX	TMH	TELEPHONE MANHOLE
FW	FACE OF WALL	TOE	GRADE BREAK LINE TOE
GB	GRADE BREAK	TOP	GRADE BREAK LINE TOP
HDWL	HEADWALL	TR	TOP OF RAMP
IB	IRRIGATION BOX	TS	TOP OF STAIR
IE	INVERT ELEVATION	TSB	TRAFFIC SIGNAL BOX
LIP	LIP OF GUTTER	TSP	TRAFFIC SIGNAL POLE
MH	MANHOLE	W	WEST
MON	MONUMENT	WV	WATER VALVE

VERDE DESIGN
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SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.5554
fax: 916.415.5525
www.VerdeDesignInc.com

STAMP

LICENSED LAND SURVEYOR — ADAM A. JURADO — No. 9029 — STATE OF CALIFORNIA

1/18/21
PREPARED BY OR UNDER THE SUPERVISION OF — DATE
ADAM A. JURADO, L.S. 9029
LICENSE EXPIRES: 12-31-21

CONSULTANT

KIER+WRIGHT
2850 Collier Canyon Road
Livermore, CA 94551
Phone: (925) 245-8788
www.kierwright.com

SHEET TITLE
EXISTING CONDITIONS PLAN

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/24/21
75% SUBMITTAL	01/17/22
100% SUBMITTAL	05/20/22

NO.	REVISIONS	DATE

DRAWN BY: -
CHECKED BY: CS
DATE ISSUED: 05/20/2022
SCALE: 1"=20'-0"
PROJ. NO.: 2014500
SHEET NO.: L1.3 OF SHEETS

EXISTING CONDITIONS PLAN

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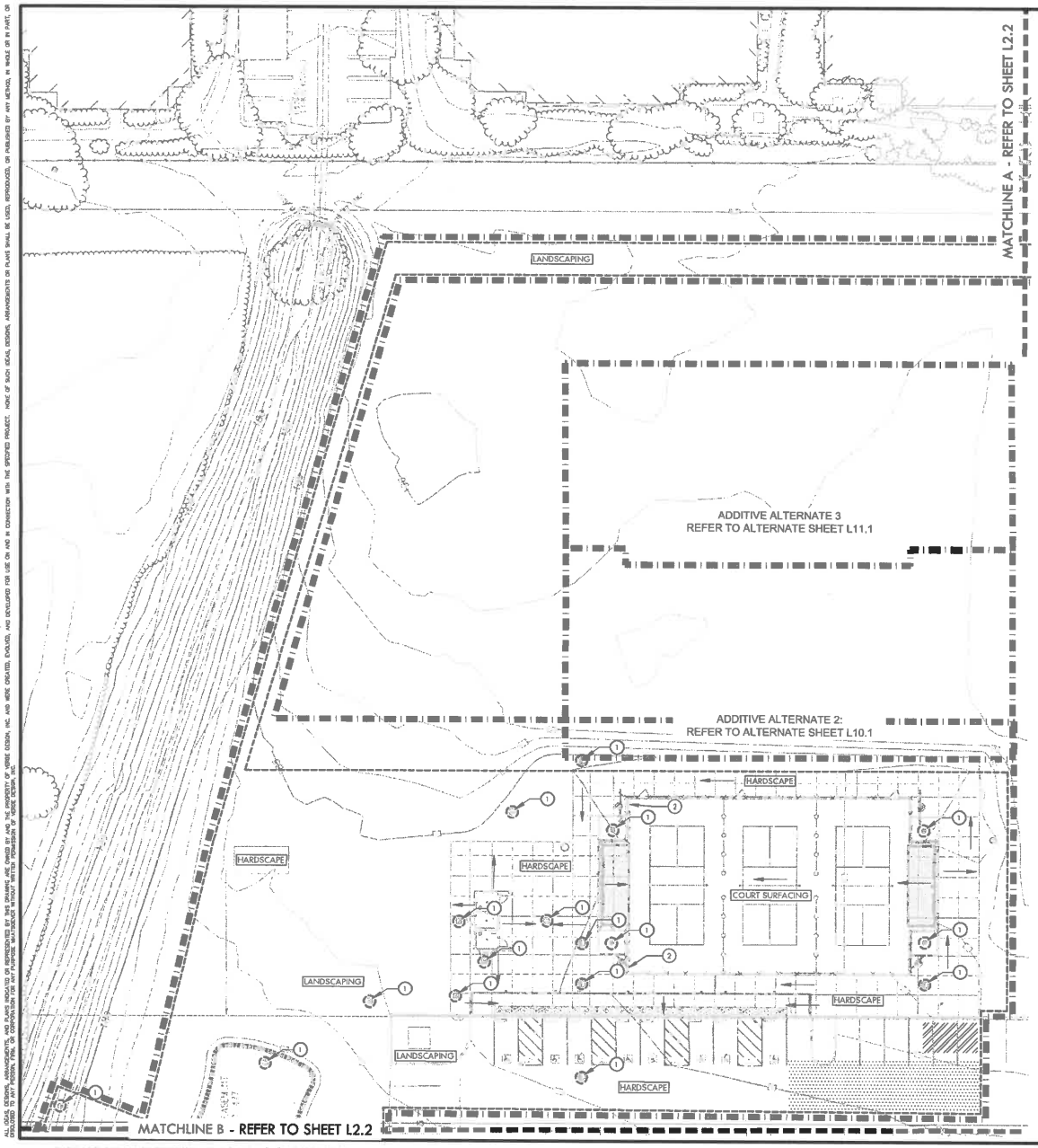
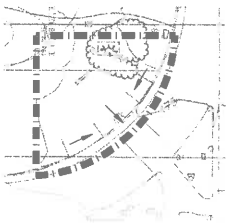


EROSION AND SEDIMENT CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED DURING THE FIRST WEEK OF CONSTRUCTION.
2. EROSION AND SEDIMENT CONTROL SHALL REMAIN THROUGHOUT CONSTRUCTION AND BE REMOVED AND DISPOSED OF DURING MAINTENANCE PERIOD.
3. EROSION AND SEDIMENT CONTROL MAY BE ADJUSTED THROUGH CONSTRUCTION WITH APPROVAL OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
4. CONTRACTOR SHALL SWEEP STREETS AND PARKING AREAS AFFECTED BY CONSTRUCTION WITH STREET SWEEPER AS REQUIRED TO KEEP PAVING CLEAN OF CONSTRUCTION DEBRIS.
5. REFER TO SHEET C0.2 FOR THE CITY OF ROSEVILLE'S PUBLIC IMPROVEMENTS EROSION AND SEDIMENT CONTROL NOTES.
6. THE SWPPP SHALL BE IMPLEMENTED AND MONITORED BY THE CONTRACTOR AND SHALL BE A "LIVING DOCUMENT" REFLECTING THE STATUS OF CONSTRUCTION WORK AS IT PROGRESSES.

EROSION AND SEDIMENT CONTROL LEGEND

SYM	DESCRIPTION	DTL REF
	LIMIT OF WORK	
1	STORM DRAIN INLET PROTECTION INSTALLATION. CONTRACTOR TO PROVIDE APPLICABLE PROTECTION METHOD AT EACH NOTED DRAIN INLET PER THE CITY OF ROSEVILLE STANDARDS.	B L2.3
	FIBER ROLLS INSTALLATION PER CITY OF ROSEVILLE'S STANDARDS.	A L2.3
	CONCRETE WASHOUT INSTALLATION - PROVIDE A WASHOUT BIN FOR CONSTRUCTION WASHOUT AND REMOVE AT END OF CONSTRUCTION.	C L2.3
	CONSTRUCTION STAGING AREA	
	DIRECTION OF SURFACE FLOW	
2	ADD TRENCH DRAIN CHANNEL PROTECTION ONCE INSTALLED UNTIL GRADE ESTABLISHMENT AND COVERAGE IS COMPLETE.	



NORTH
0' 10' 20' 40' 60'

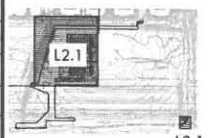
Not for Construction
For Council Approval

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesign.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BASHAW
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP



L2.1

SHEET TITLE
EROSION CONTROL PLAN

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2
75% SUBMITTAL	09/1 /22
100% SUBMITTAL	10/0 /22

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
AL	CS
DATE ISSUED	SCALE
05/20/2022	1"=20'-0"
PROJ. NO.	
2014500	
SHEET NO.	OF SHEETS
L2.1	

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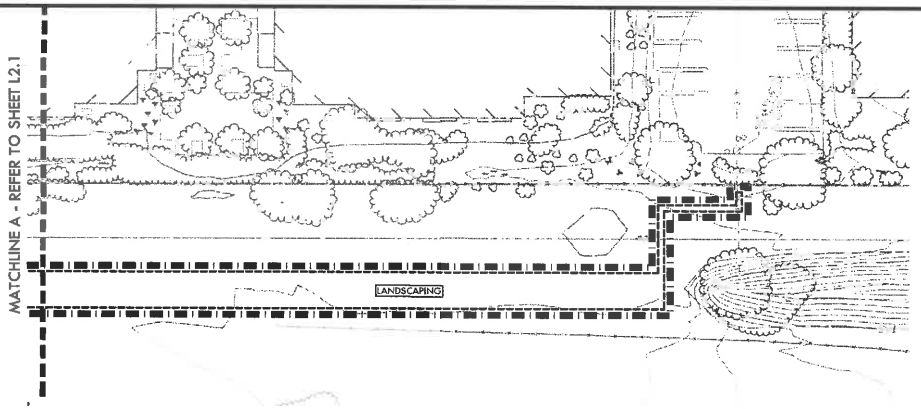

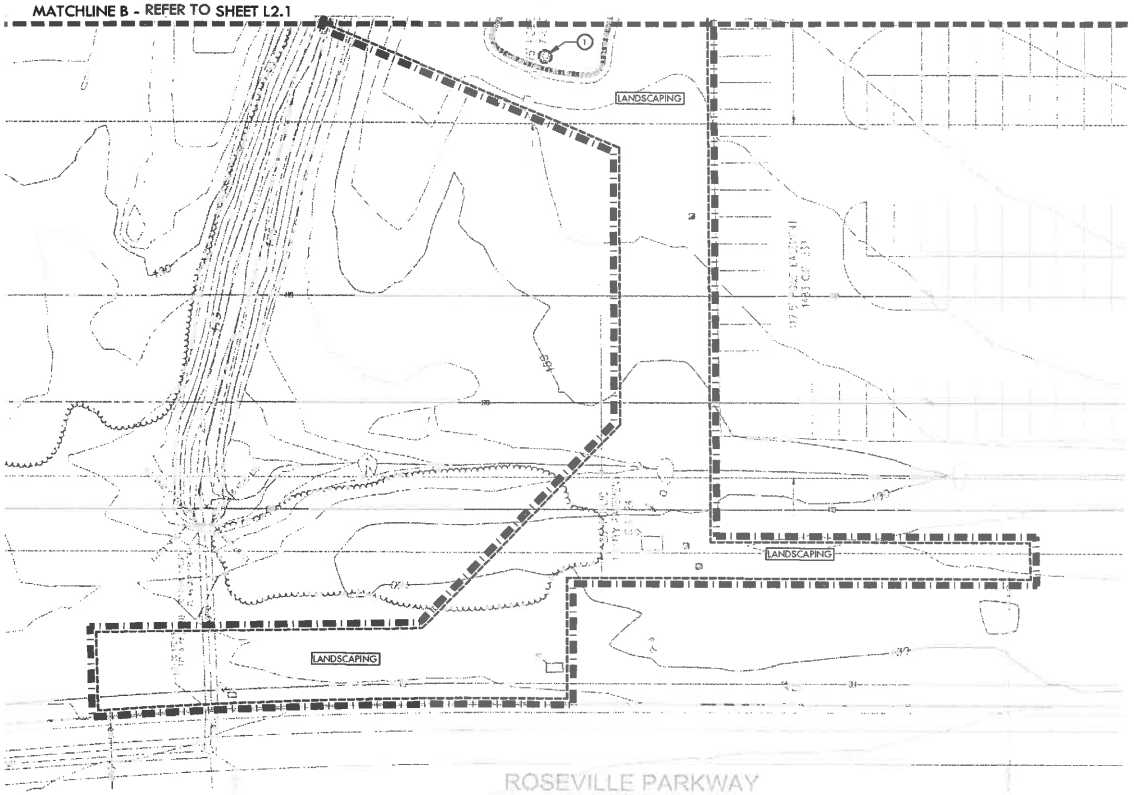

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EROSION AND SEDIMENT CONTROL LEGEND

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	FIBER ROLLS INSTALLATION PER CITY OF ROSEVILLE'S STANDARDS.	A L2.3
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MARK S. BASHAW
No. 4089
Signature
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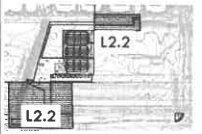
STATE OF CALIFORNIA

KEY MAP



SHEET TITLE

EROSION CONTROL PLAN

PROJECT NAME

GIBSON PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2
75% SUBMITTAL	2/17/22
100% SUBMITTAL	03/30/22

NO.	REVISIONS	DATE
1		
2		
3		
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DRAWN BY	CHECKED BY: CS
DATE ISSUED: 05/20/2022	SCALE: 1"=20'-0"
PROJ. NO.: 2014500	
SHEET NO.: L2.2 OF SHEETS	

NORTH
0' 10' 20' 40' 60'

Not for Construction
For Council Approval

EROSION CONTROL PLAN

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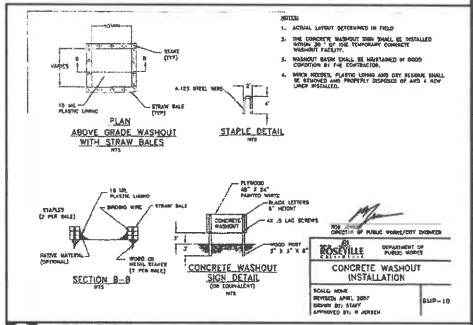
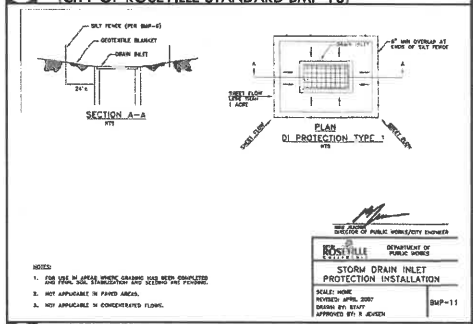
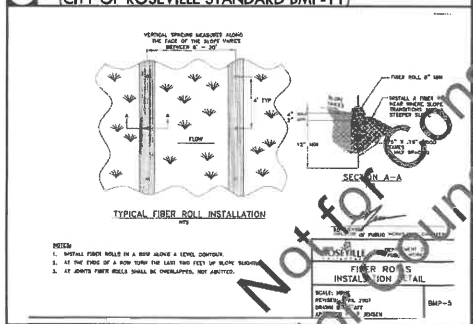


C CONCRETE WASHOUT INSTALLATION (CITY OF ROSEVILLE STANDARD BMP-10) NTS



B STORM DRAIN INLET PROTECTION INSTALLATION (CITY OF ROSEVILLE STANDARD BMP-11) NTS



A FIBER ROLLS INSTALLATION (CITY OF ROSEVILLE STANDARD BMP-5) NTS

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Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

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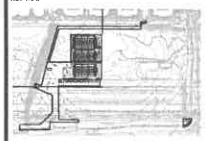
KEY MAP



SHEET TITLE

EROSION CONTROL DETAILS

PROJECT NAME

GIBSON PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2[illegible]
75% SUBMITTAL	[illegible]/22
100% SUBMITTAL	[illegible]/22

NO.	REVISIONS	DATE

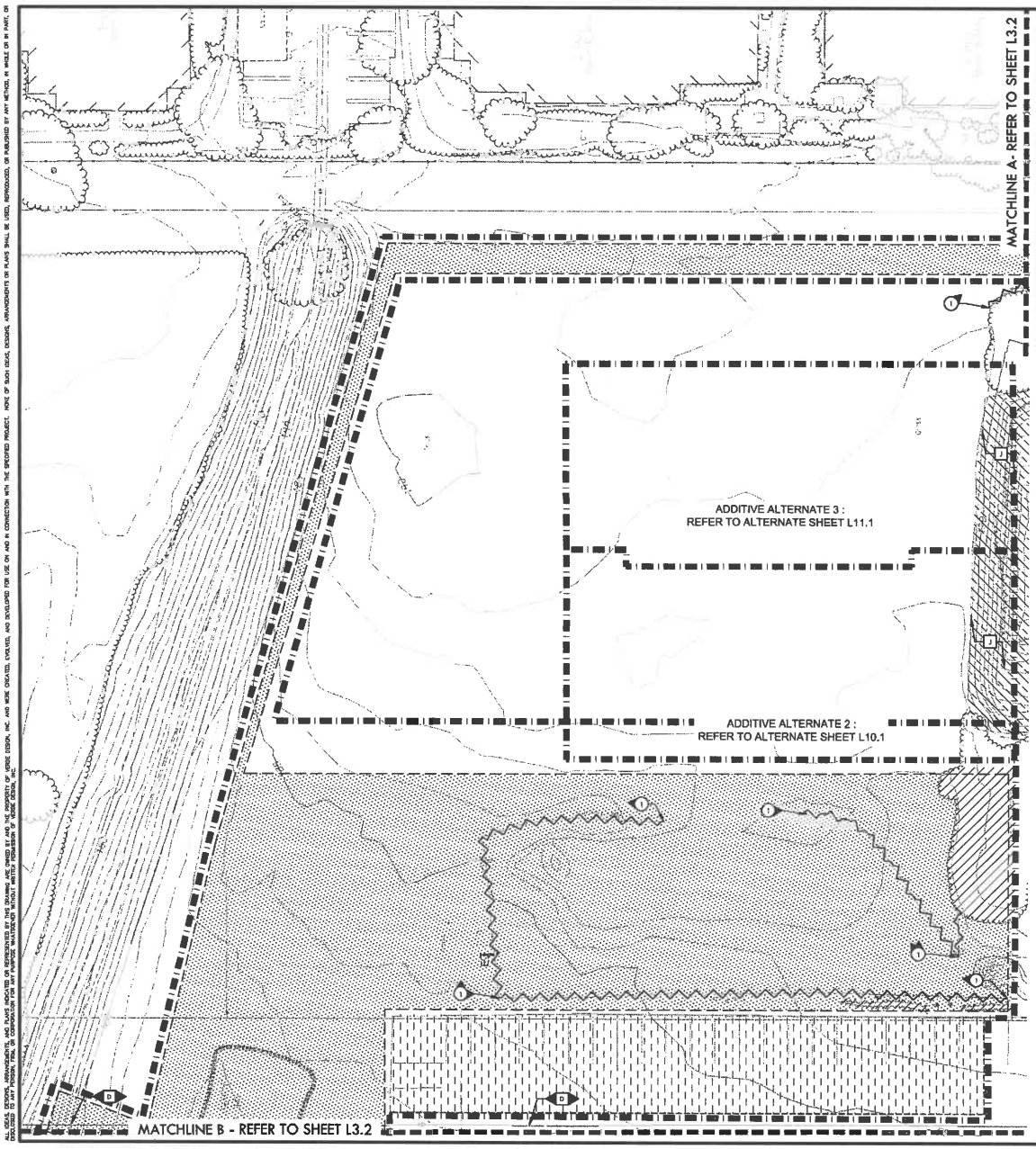
DRAWN BY	CHECKED BY
VDI	CS
DATE ISSUED	SCALE
05/20/2022	AS NOTED

PROJ. NO. 2014500

SHEET NO. L2.3 OF SHEETS

EROSION CONTROL DETAILS

Not for Construction
For Council Approval



DEMOLITION ITEMS

ITEMS TO BE DEMOLISHED AND/OR REMOVED

1. EXISTING FENCING TO BE REMOVED.

ITEMS TO BE PROTECTED OR RELOCATED

- A POWER POLE TO REMAIN AND BE PROTECTED
- B SANITARY SEWER LINE TO REMAIN AND BE PROTECTED.
- C ELECTRICAL/UTILITY BOX TO REMAIN AND BE PROTECTED.
- D OVERHEAD UTILITY LINES TO REMAIN AND BE PROTECTED.
- E HARDSCAPE TO REMAIN AND BE PROTECTED.
- F STREET LIGHT TO REMAIN AND BE PROTECTED.
- G GRAVEL PILE TO BE REMAIN AND BE PROTECTED.
- H HEADWALL REMAIN AND BE PROTECTED.
- I RIP RAP TO REMAIN AND BE PROTECTED.
- J SOIL TO REMAIN ON SITE AND IS TO BE MOVED OUT OF THE LIMIT OF WORK AREA PRIOR TO START OF CONSTRUCTION. PLACEMENT TO BE DESIGNATED BY OWNER
- K DRAINAGE STRUCTURE AND LINE TO REMAIN AND BE PROTECTED.
- L WATER LINE/BOX TO REMAIN AND BE PROTECTED.
- M FIBER OPTIC LINE TO REMAIN AND BE PROTECTED.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE DEVELOPER TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY.
3. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE DEVELOPER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
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7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIPLINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM FOR PLANT MATERIAL THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

DEMOLITION LEGEND

SYM	DESCRIPTION
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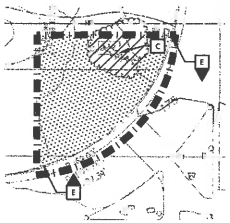
	EXISTING HARDSCAPE PAVING INCLUDING BASE MATERIAL TO BE DEMOLISHED AND REMOVED.
	SHRUBS AND VEGETATION TO BE DEMOLISHED AND REMOVED. CLEAR AND GRUB AREA WHEN SHRUBS AND VEGETATION HAVE BEEN REMOVED.
	SOIL TO REMAIN ON SITE AND BE REMOVED TO OUT OF LIMIT OF WORK PRIOR TO START OF CONSTRUCTION. PLACEMENT TO BE DESIGNATED BY OWNER.
	DEMOLISH AND REMOVE EXISTING FENCE, INCLUDING GATES, POSTS, FABRIC, AND FOOTINGS
	SAWCUT EXISTING ASPHALT PAVING
	LIMIT OF CLEAR AND GRUB





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LANDSCAPE ARCHITECTURE
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tel: 916.415.8556
fax: 916.415.8525
www.VerdeDesigninc.com

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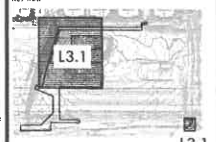
REGISTERED LANDSCAPE ARCHITECT
MARK S. BROWNE
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP



SHEET TITLE

DEMOLITION PLAN

PROJECT NAME

GIBSON PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/24/21
75% SUBMITTAL	11/17/22
100% SUBMITTAL	03/10/22

NO.	REVISIONS	DATE
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2014500	
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L3.1	

DEMOLITION PLAN

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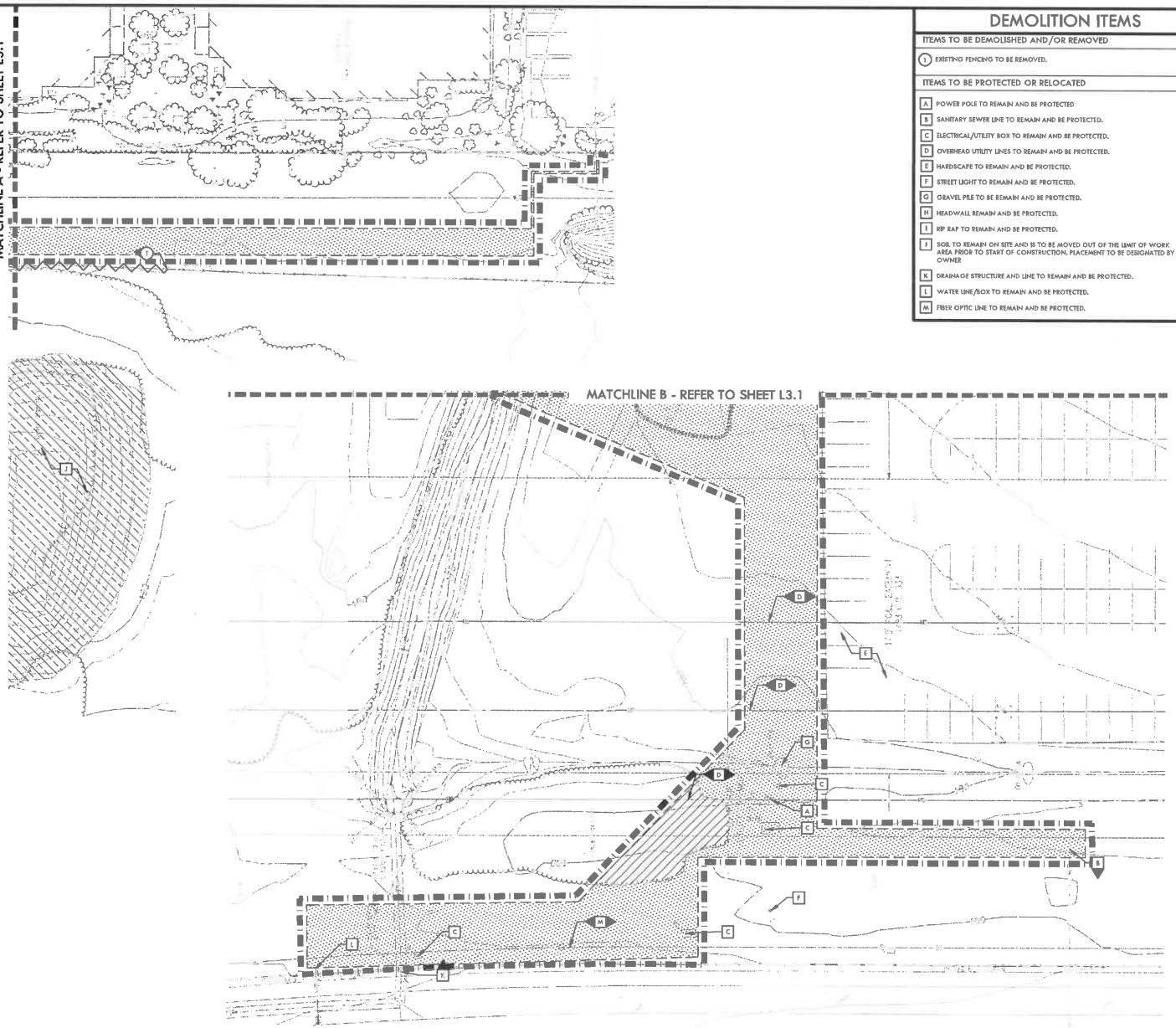

DEMOLITION ITEMS

ITEMS TO BE DEMOLISHED AND/OR REMOVED

(1) EXISTING FENCING TO BE REMOVED.

ITEMS TO BE PROTECTED OR RELOCATED

- [A] POWER POLE TO REMAIN AND BE PROTECTED
- [B] SANITARY SEWER LINE TO REMAIN AND BE PROTECTED.
- [C] ELECTRICAL/UTILITY BOX TO REMAIN AND BE PROTECTED.
- [D] OVERHEAD UTILITY LINES TO REMAIN AND BE PROTECTED.
- [E] HARDSCAPE TO REMAIN AND BE PROTECTED.
- [F] STREET LIGHT TO REMAIN AND BE PROTECTED.
- [G] GRAVEL PILE TO BE REMAIN AND BE PROTECTED.
- [H] HEADWALL REMAIN AND BE PROTECTED.
- [I] RIP RAP TO REMAIN AND BE PROTECTED.
- [J] SOIL TO REMAIN ON SITE AND IS TO BE MOVED OUT OF THE LIMIT OF WORK AREA PRIOR TO START OF CONSTRUCTION. PLACEMENT TO BE DESIGNATED BY OWNER
- [K] DRAINAGE STRUCTURE AND LINE TO REMAIN AND BE PROTECTED.
- [L] WATER LINE/BOX TO REMAIN AND BE PROTECTED.
- [M] FIBER OPTIC LINE TO REMAIN AND BE PROTECTED.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE DEVELOPER TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY.
3. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE DEVELOPER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
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NORTH
0' 10' 20' 40' 60'

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MARK S. BRITTAN
No. 4089
Signature
EXPIRATION DATE: JULY 2023
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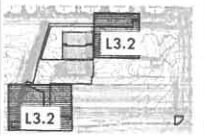
KEY MAP



SHEET TITLE
DEMOLITION PLAN

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

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75% SUBMITTAL	11/17/22
100% SUBMITTAL	03/30/23

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AL	CS
DATE ISSUED: 05/20/2022	SCALE: 1"=20'-0"

PROJ. NO. 2014500

SHEET NO. L3.2 OF SHEETS

DEMOLITION PLAN

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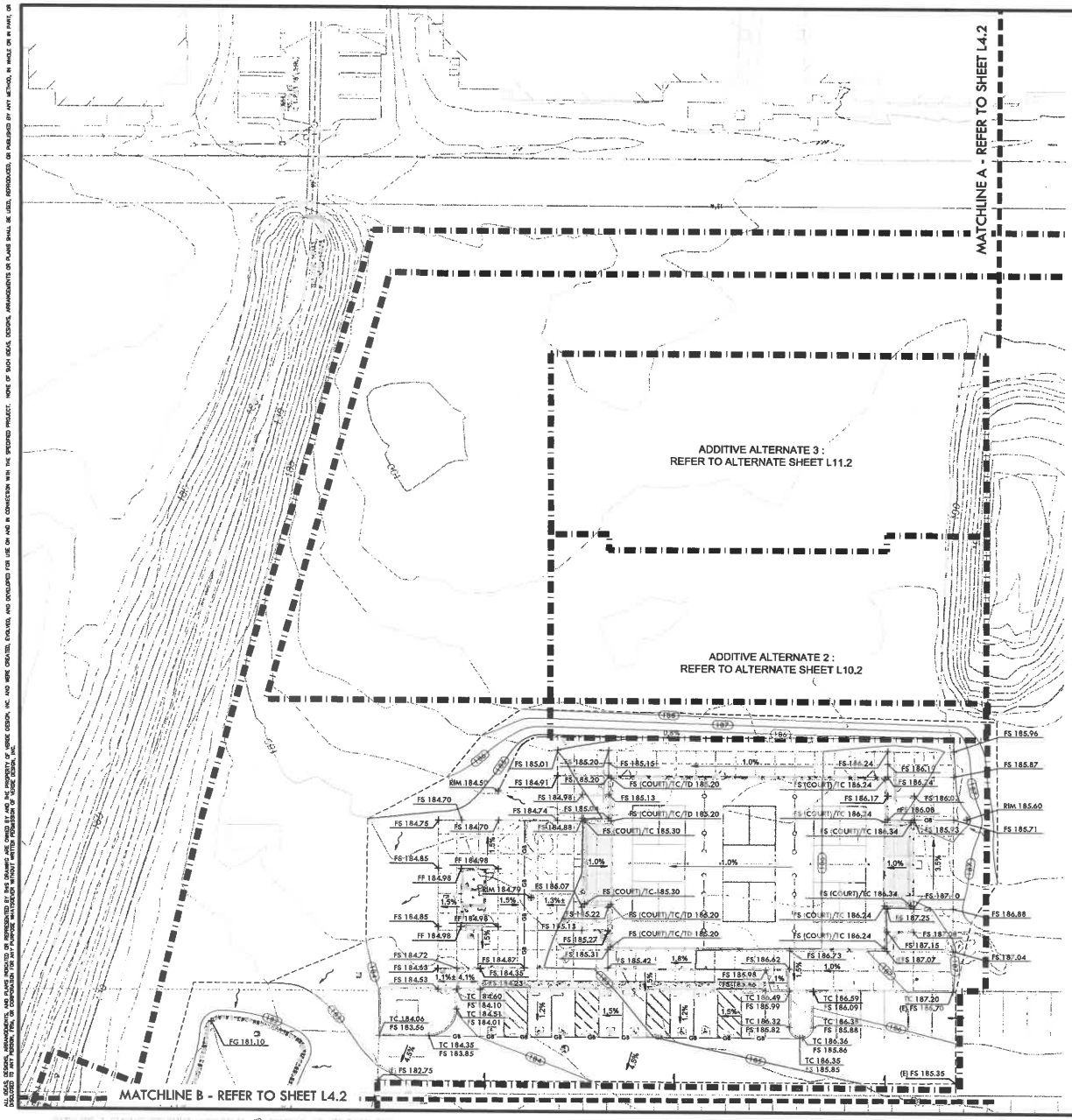

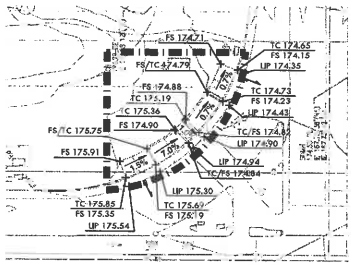

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GRADING NOTES

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GRADING LEGEND

SYM	DESCRIPTION
	LIMIT OF WORK
100	PROPOSED CONTOUR
FG 32.00	PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE
FS 32.00	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE
FF 99.00	PROPOSED FINISHED FLOOR ELEVATION
FL 99.00	PROPOSED FLOW LINE ELEVATION OF HARDSCAPE
RIM 31.00	LOW POINT/ RIM ELEVATION OF DRAIN
TC 32.50	TOP OF CURB
TW 34.00	TOP OF WALL
TD 99.00	TOP OF TRENCH DRAIN
	CENTER LINE OF SWALE
GB GB	GRADE BREAK
	CONFORM TO EXISTING GRADE
	LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
	FLOW DIRECTION IN SOFTSCAPE
	EXISTING CONTOUR
	EXISTING ELEVATION

EARTHWORK CALCULATION

VOLUMES (CY)		COMP/RATIO		NET BALANCE (CY)
CUT (CY):	1500	CUT:	1	1400 REMOVE
FILL (CY):	100	FILL:	1	

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BROWNEY
No. 4089
Signature
EXPIRATION DATE: JULY 2023
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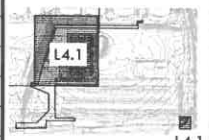
KEY MAP



SHEET TITLE

GRADING PLAN

PROJECT NAME

GIBSON PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/24/21
75% SUBMITTAL	01/17/22
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GRADING PLAN

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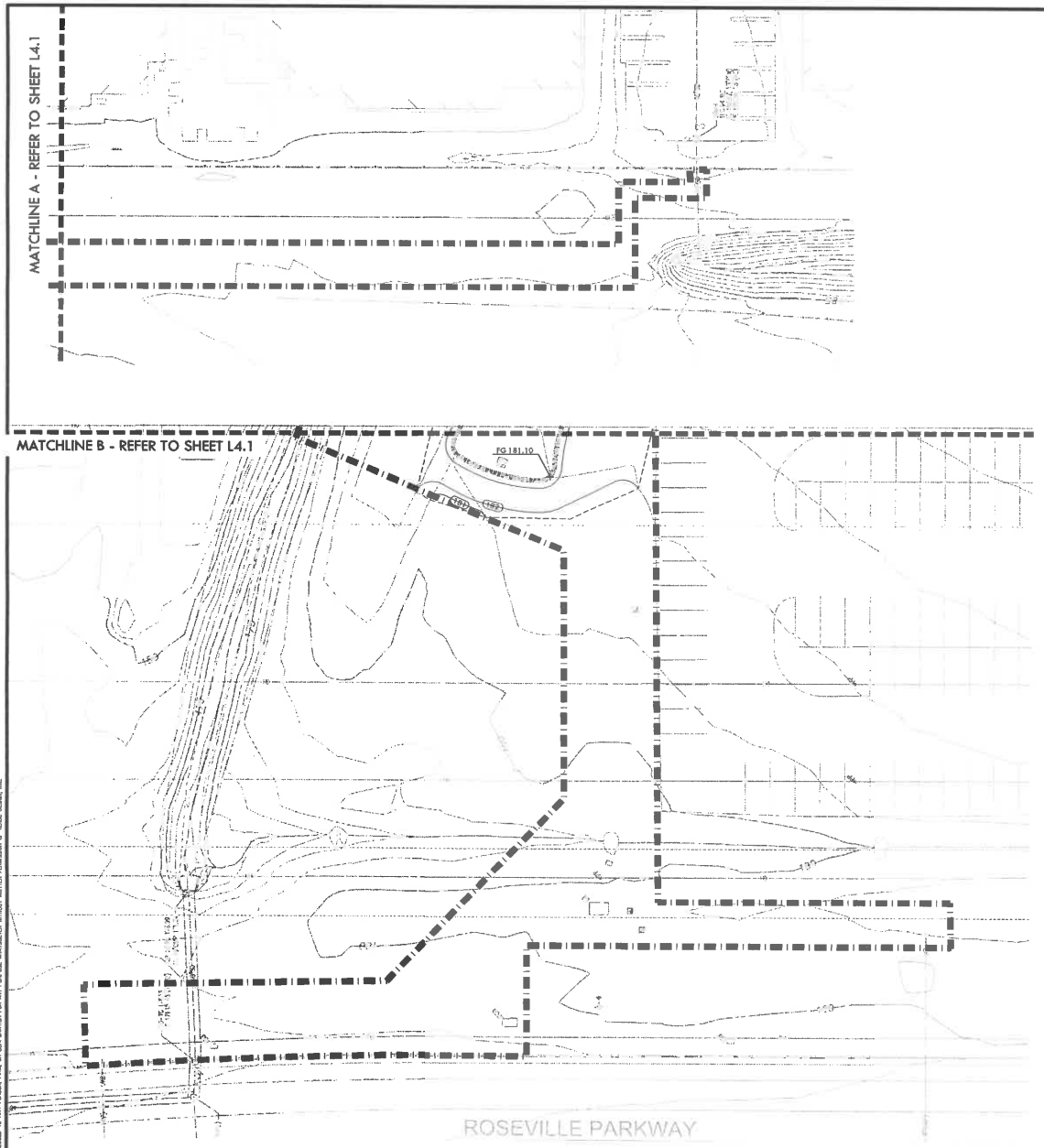

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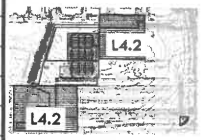

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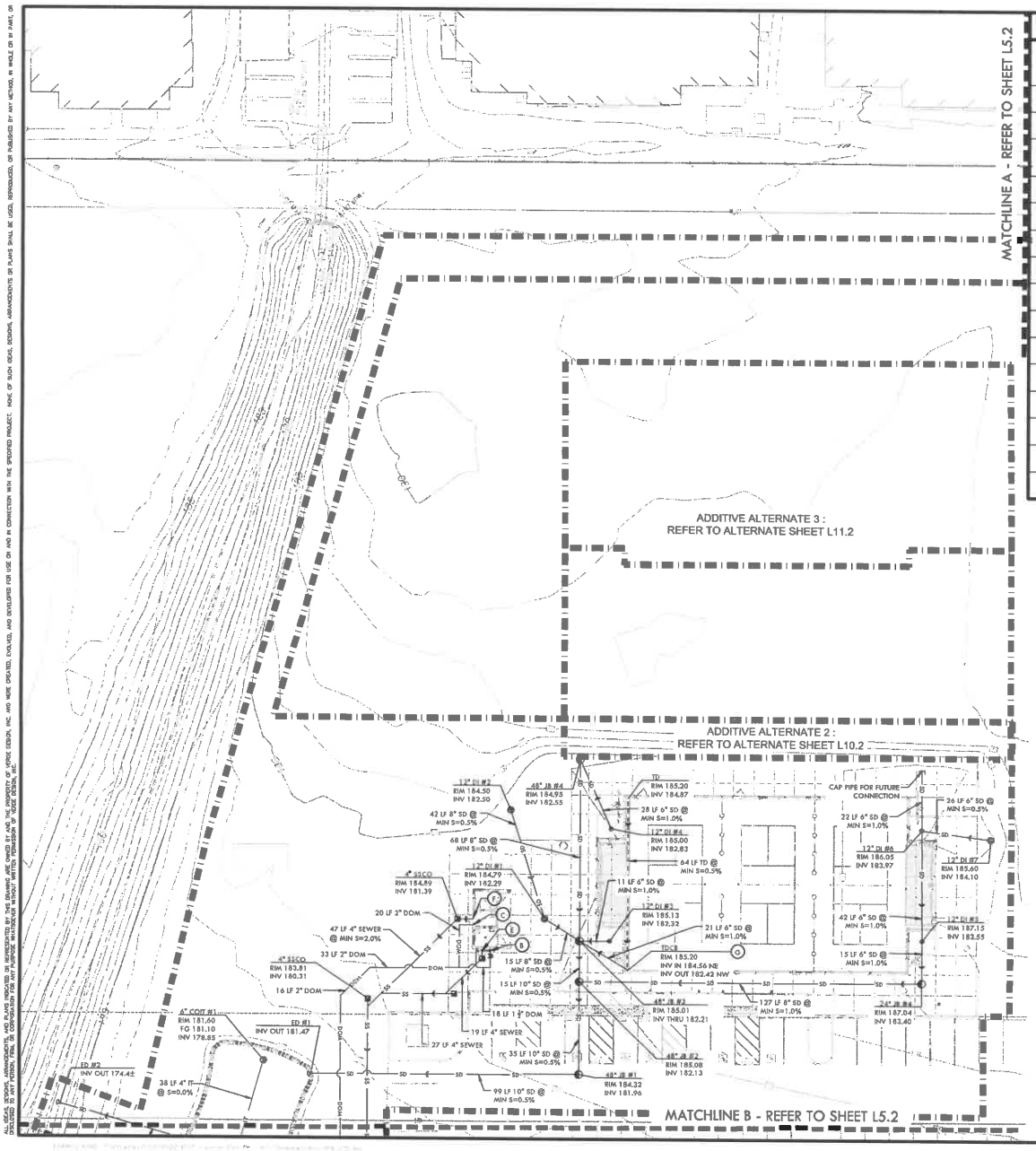


DRAINAGE & UTILITY LEGEND

(A)	DOMESTIC WATER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO CITY IN WRITING.
(B)	DOMESTIC WATER CONNECTION TO DRINKING FOUNTAIN (G D1.1)
(C)	DOMESTIC WATER CONNECTION TO BUILDING, REFER TO ARCHITECTURAL PLANS
(D)	SANITARY SEWER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO CITY IN WRITING.
(E)	SANITARY SEWER CONNECTION TO DRINKING FOUNTAIN (G D1.1)
(F)	SANITARY SEWER CONNECTION TO BUILDING, REFER TO ARCHITECTURAL PLANS
(G)	TRENCH DRAIN TO STORM DRAIN CONNECTION (C D1.1)
(H)	TO IRRIGATION SYSTEM. REFER TO IRRIGATION PLANS FOR ADDITIONAL INFORMATION.
(E)	EXISTING
INV	INVERT
RIM	RIM ELEVATION
LF	LINEAR FEET
S=0.5%	SLOPE
MIN.	MINIMUM
TD	TRENCH DRAIN ELEVATION
N, S, E, W	NORTH, SOUTH, EAST, WEST

DRAINAGE & UTILITY NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE CITY REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
2. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.
3. THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
4. COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
5. THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
6. ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SUBGRADING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
7. PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POTHOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED.
8. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.

DRAINAGE & UTILITY LEGEND

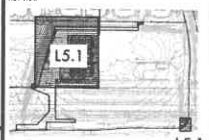
SYM	DESCRIPTION (DETAIL NUMBER / SHEET NUMBER)
	CATCH BASIN, (CB) SIZE PER PLAN (A D1.1)
	JUNCTION BOX (JB), SIZE PER PLAN (A D1.1)
	SANITARY SEWER CLEANOUT (SSCO) (H D1.1)
	ENERGY DISSIPATOR (C D1.2)
	NIBCO GATE VALVES 2" AND SMALLER SHALL BE NIBCO T-113 LF. FOR VALVES ABOVE 2" IN SIZE UTILIZE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT. (D D1.3)
	CLEANOUT IN BIORETENTION AREA (COIT), SIZE PER PLAN (A D1.2)
	OVERFLOW RISER (OFR) WITH GRATE/STANDPIPE AT BIORETENTION AREA, SIZE PER PLAN (A D1.2)
	BOTTOM OF BIORETENTION AREA (E D1.2)
	TRENCH DRAIN (B D1.1)
SD	SOLID WALL STORM DRAIN (D D1.1)
IT	INFILTRATION TRENCH (IT) AT BIORETENTION AREA, SIZE PER PLAN (A D1.2)
SS	SANITARY SEWER LINE (I D1.1)
DOM	DOMESTIC WATER LINE
M	1" DOMESTIC WATER METER PURCHASED THROUGH THE CITY AND INSTALL IN APPROXIMATE LOCATION AS SHOWN ON THE PLANS. INSTALL PER CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT STANDARDS AND DETAILS, LATEST EDITION.
BF	WATTS 1" MODEL LF009 BACKFLOW PREVENTER DEVICE. INSTALL PER CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT STANDARDS AND DETAILS, LATEST EDITION.

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1643 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK C. BRAYBOY
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP



L5.1

SHEET TITLE
DRAINAGE AND UTILITY PLAN

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/22
75% SUBMITTAL	11/22
100% SUBMITTAL	03/30/22

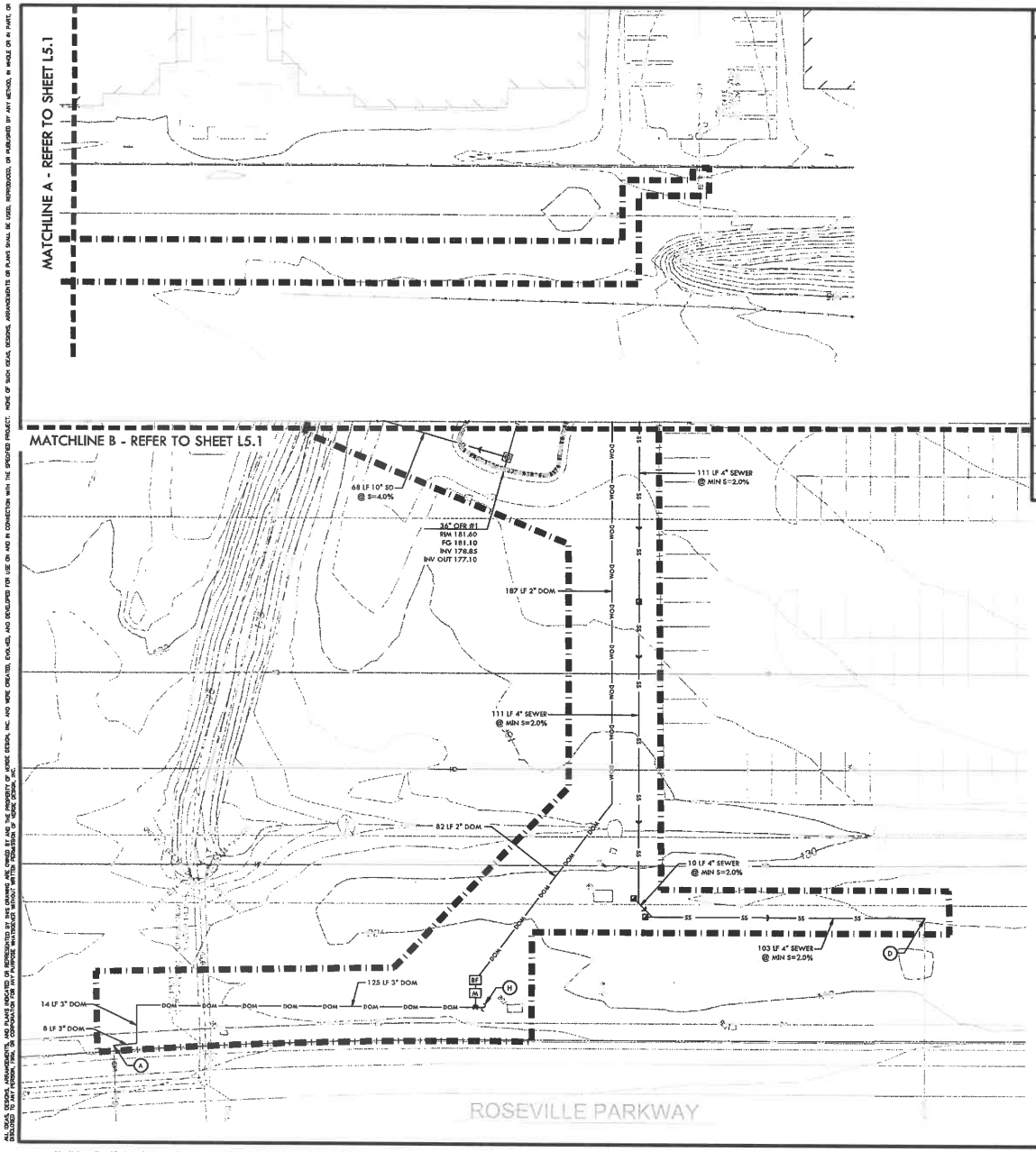
NO.	REVISIONS	DATE
1		
2		
3		
4		
5		

DRAWN BY: DK	CHECKED BY: CS
DATE ISSUED: 05/20/2022	SCALE: 1"=20'-0"
PROJ. NO.: 2014500	
SHEET NO.: L5.1 OF SHEETS	

DRAINAGE AND UTILITY PLAN

Not for Construction
For Council Approval

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



DRAINAGE & UTILITY LEGEND

A	DOMESTIC WATER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO CITY IN WRITING.
B	DOMESTIC WATER CONNECTION TO DRINKING FOUNTAIN (G D1.1)
C	DOMESTIC WATER CONNECTION TO BUILDING, REFER TO ARCHITECTURAL PLANS
D	SANITARY SEWER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO CITY IN WRITING.
E	SANITARY SEWER CONNECTION TO DRINKING FOUNTAIN (G D1.1)
F	SANITARY SEWER CONNECTION TO BUILDING, REFER TO ARCHITECTURAL PLANS
G	TRENCH DRAIN TO STORM DRAIN CONNECTION (C D1.1)
H	TO IRRIGATION SYSTEM. REFER TO IRRIGATION PLANS FOR ADDITIONAL INFORMATION.
(E)	EXISTING
INV	INVERT
RIM	RIM ELEVATION
LF	LINEAR FEET
S=0.5%	SLOPE
MIN.	MINIMUM
TD	TRENCH DRAIN ELEVATION
N, S, E, W	NORTH, SOUTH, EAST, WEST

DRAINAGE & UTILITY NOTES

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DRAINAGE & UTILITY LEGEND

SYM.	DESCRIPTION (DETAIL NUMBER / SHEET NUMBER)
	CATCH BASIN, (CB) SIZE PER PLAN (A D1.1)
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NORTH

0' 10' 20' 40' 60'

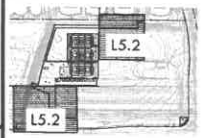
Not for Construction
For Council Approval

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1643 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.8556
fax: 916.415.8525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
WAYNE S. SAKUMA
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP



SHEET TITLE

DRAINAGE AND UTILITY PLAN

PROJECT NAME

GIBSON PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2
75% SUBMITTAL	11/22
100% SUBMITTAL	03/30/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DK	CS
DATE ISSUED: 05/20/2022	SCALE: 1"=20'-0"
PROJ. NO.: 2014500	
SHEET NO.: L5.2 OF SHEETS	

DRAINAGE AND UTILITY PLAN

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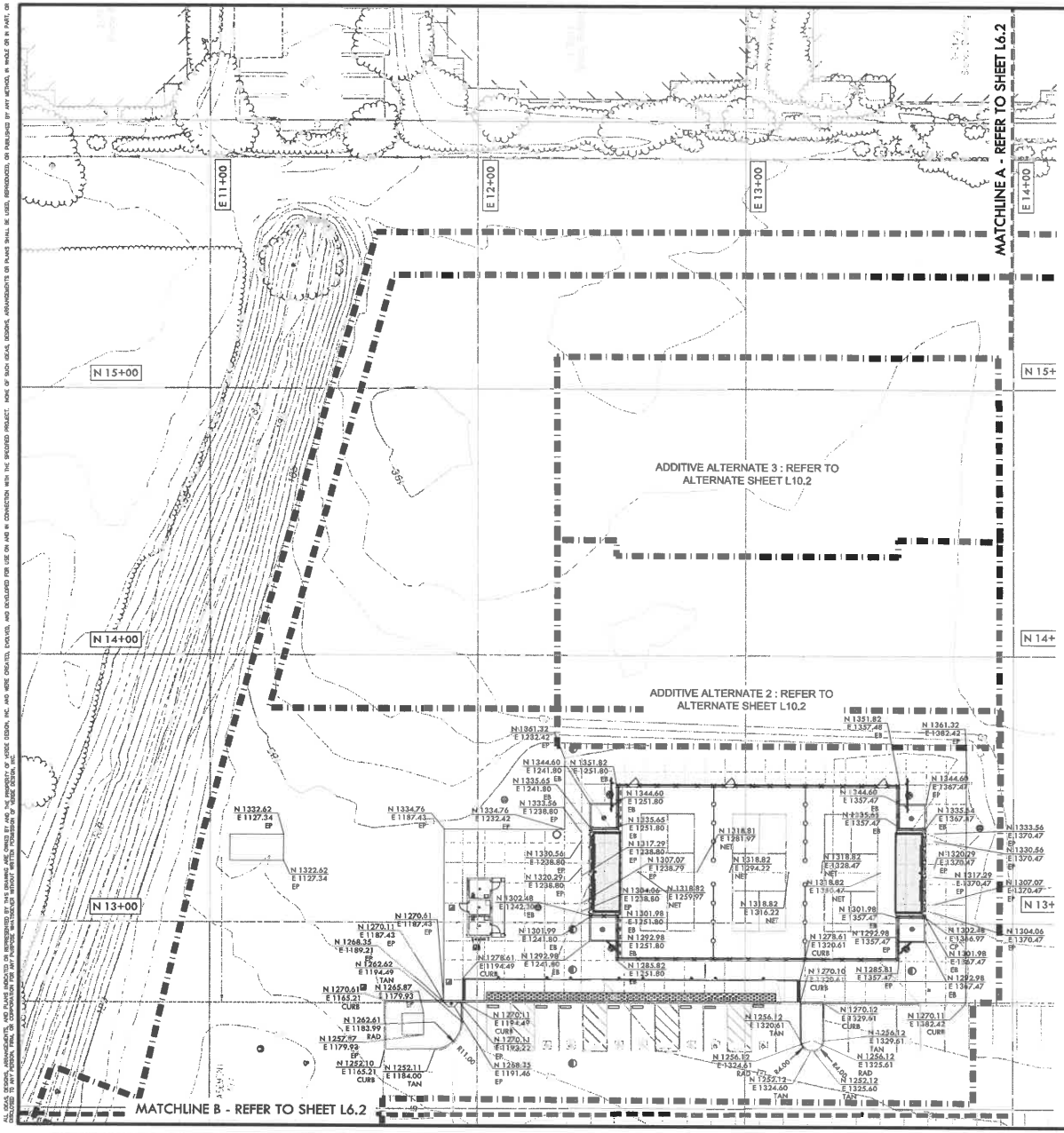

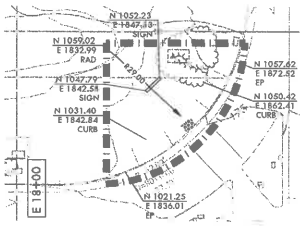

LAYOUT NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
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3. LAYOUT IS BASED ON THE POINT(S) OF BEGINNING (P.O.B.) AND BASELINE(S) OR GRID SYSTEM AS SHOWN. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.
4. ALL LAYOUT AND GRADES SHALL BE COMPLETED BY A LICENSED SURVEYOR.

LAYOUT LEGEND

SYM	DESCRIPTION
POB	POINT OF BEGINNING
	ANCHOR POINT FOR BASELINE A
R10'	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X"	DISTANCE BETWEEN ELEMENTS
	CENTER LINES
	BASELINE
	CONTROL LINE
N 1321.95 E 1965.37	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
COD	CENTER OF DRAIN
CP	CENTER OF POST
CURB	CURB
EB	EDGEBAND
NET	CENTER OF PICKLE BALL NET POST
BLDG	COMFORT STATION
TAN	TANGENT POINT
RAD	RADIUS POINT
POB	POINT OF BEGINNING FOR GRID LAYOUT
CNTRL	CONTROL POINT
EP	EDGE OF PAVEMENT
LP	CENTER OF LIGHT POST
LR	LEANING RAIL FOOTING
SHADE	CENTER OF SHADE STRUCTURE FOOTING

REFER TO SHEET L6.3 FOR REGION OF BEGINNING AND CONTROL POINT LOCATION.

NORTH

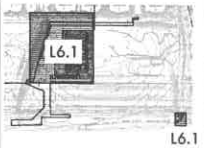
0' 10' 20' 40' 60'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2022
STATE OF CALIFORNIA

KEY MAP



SHEET TITLE

LAYOUT PLAN - HARDSCAPE

PROJECT NAME

GIBSON PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2[illegible]
75% SUBMITTAL	[illegible]
100% SUBMITTAL	05/20/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
AL	CS
DATE ISSUED	SCALE
05/20/2022	1"=20'-0"
PROJ. NO.	
2014500	
SHEET NO.	
L6.1	OF SHEETS

LAYOUT PLAN - HARDSCAPE

Not for Construction
For Council Approval

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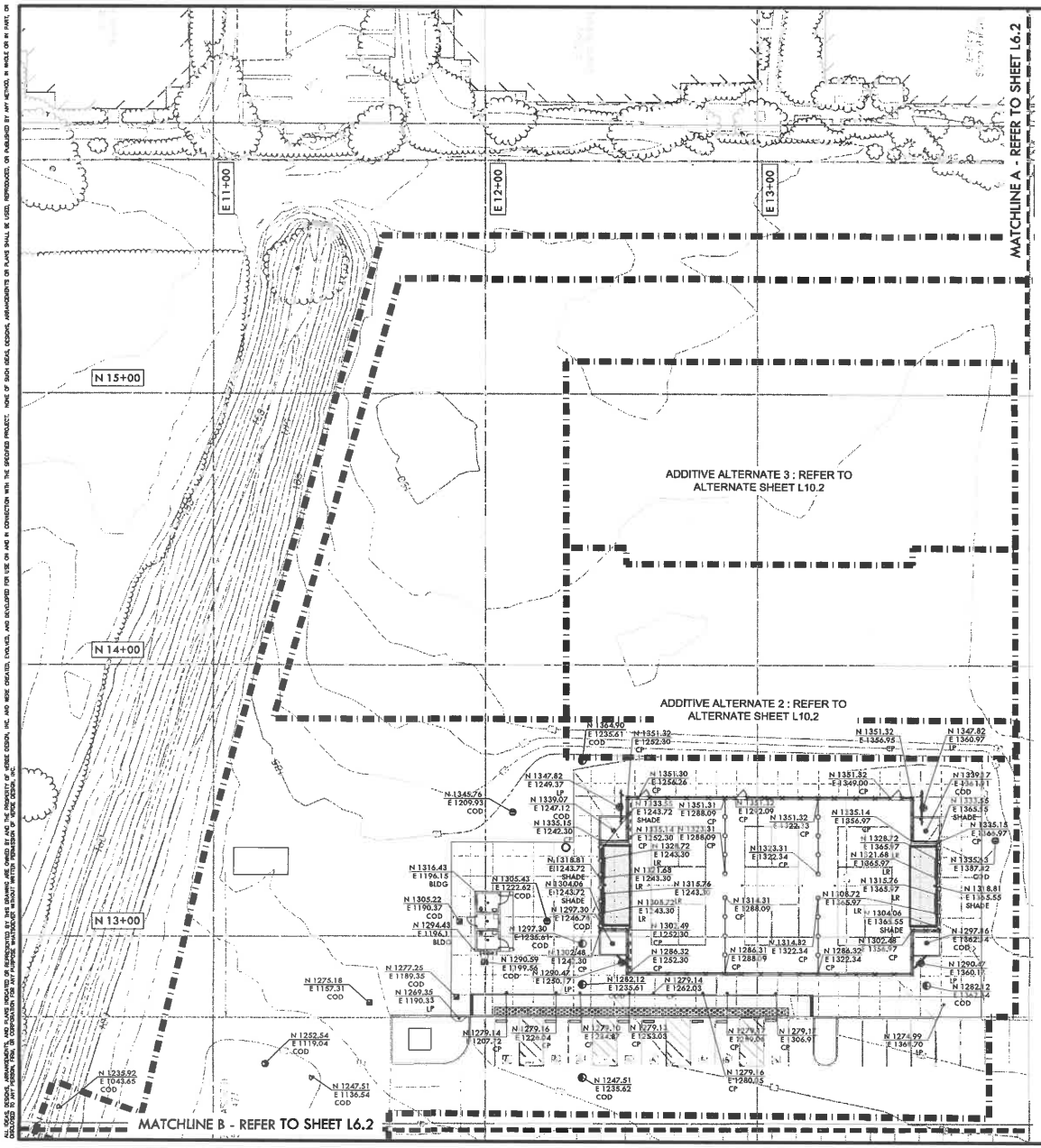

LAYOUT NOTES

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3. LAYOUT IS BASED ON THE POINT(S) OF BEGINNING (P.O.B.) AND BASELINE(S) OR GRID SYSTEM AS SHOWN. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.
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LAYOUT LEGEND

SYM.	DESCRIPTION
POB	POINT OF BEGINNING
	ANCHOR POINT FOR BASELINE A
R10'	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
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	CENTER LINES
	BASELINE
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N 1321.95 E 1965.37	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
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SPORT PLANNING & DESIGN
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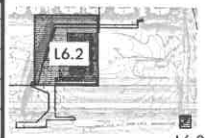
Folsom, CA 95630
tel: 916.415.6556
fax: 916.415.6526
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT — No. 4089 — Signature — EXPIRATION DATE: JULY 2023 — STATE OF CALIFORNIA

KEY MAP



L6.2

SHEET TITLE

LAYOUT PLAN - MISCELLANEOUS

PROJECT NAME

GIBSON PARK

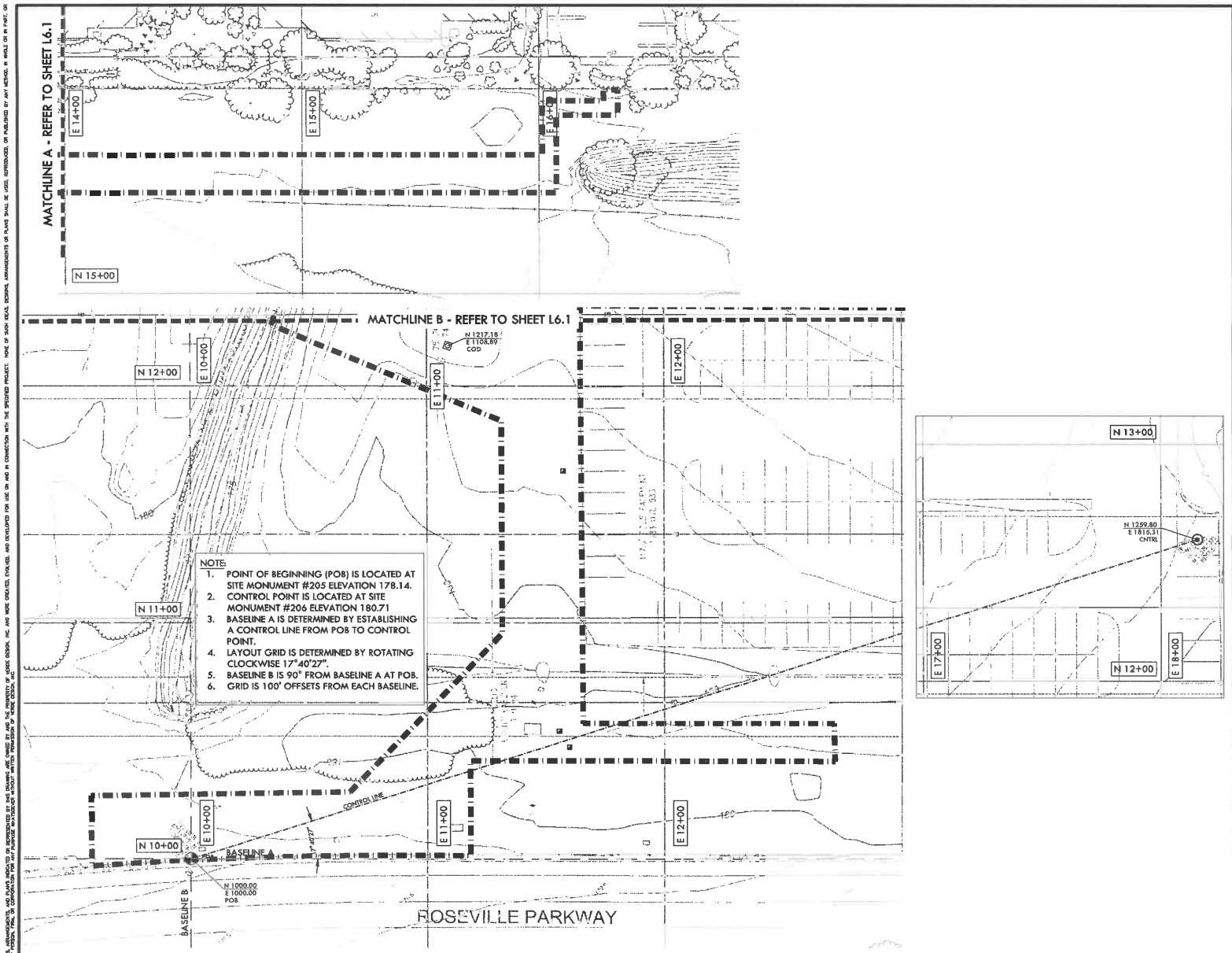
PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2[illegible]
75% SUBMITTAL	1[illegible]/22
100% SUBMITTAL	05/20/22

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
AL	CS
DATE ISSUED: 05/20/2022	SCALE: 1"=20'-0"
PROJ. NO.: 2014500	
SHEET NO.: L6.2 OF SHEETS	



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4. ALL LAYOUT AND GRADES SHALL BE COMPLETED BY A LICENSED SURVEYOR.

LAYOUT LEGEND

SYM	DESCRIPTION
POB	POINT OF BEGINNING
	ANCHOR POINT FOR BASELINE A
R10'	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X"	DISTANCE BETWEEN ELEMENTS
	CENTER LINES
	BASELINE
	CONTROL LINE
N 1321.95 E 1965.37	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
COD	CENTER OF DRAIN
CP	CENTER OF POST
CURB	CURB
EB	EDGEBAND
NET	CENTER OF PICKLE BALL NET POST
BLDG	COMFORT STATION
TAN	TANGENT POINT
RAD	RADIUS POINT
POB	POINT OF BEGINNING FOR GRID LAYOUT
CNTRL	CONTROL POINT
EP	EDGE OF PAVEMENT
LP	CENTER OF LIGHT POST
LR	LEANING RAIL FOOTING
SHADE	CENTER OF SHADE STRUCTURE FOOTING

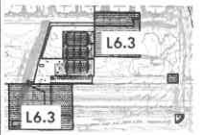
NORTH
0' 10' 20' 40' 60'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1243 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.8884
fax: 916.415.8525
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BUSHEY
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP



SHEET TITLE
LAYOUT PLAN

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2022
75% SUBMITTAL	11/2022
100% SUBMITTAL	03/08/22

NO.	REVISIONS	DATE

DRAWN BY: AL
CHECKED BY: CS
DATE ISSUED: 05/20/2022
SCALE: 1"=20'-0"
PROJ. NO.: 2014500
SHEET NO.: L6.3 OF SHEETS

LAYOUT PLAN

Not for Construction
For Council Approval

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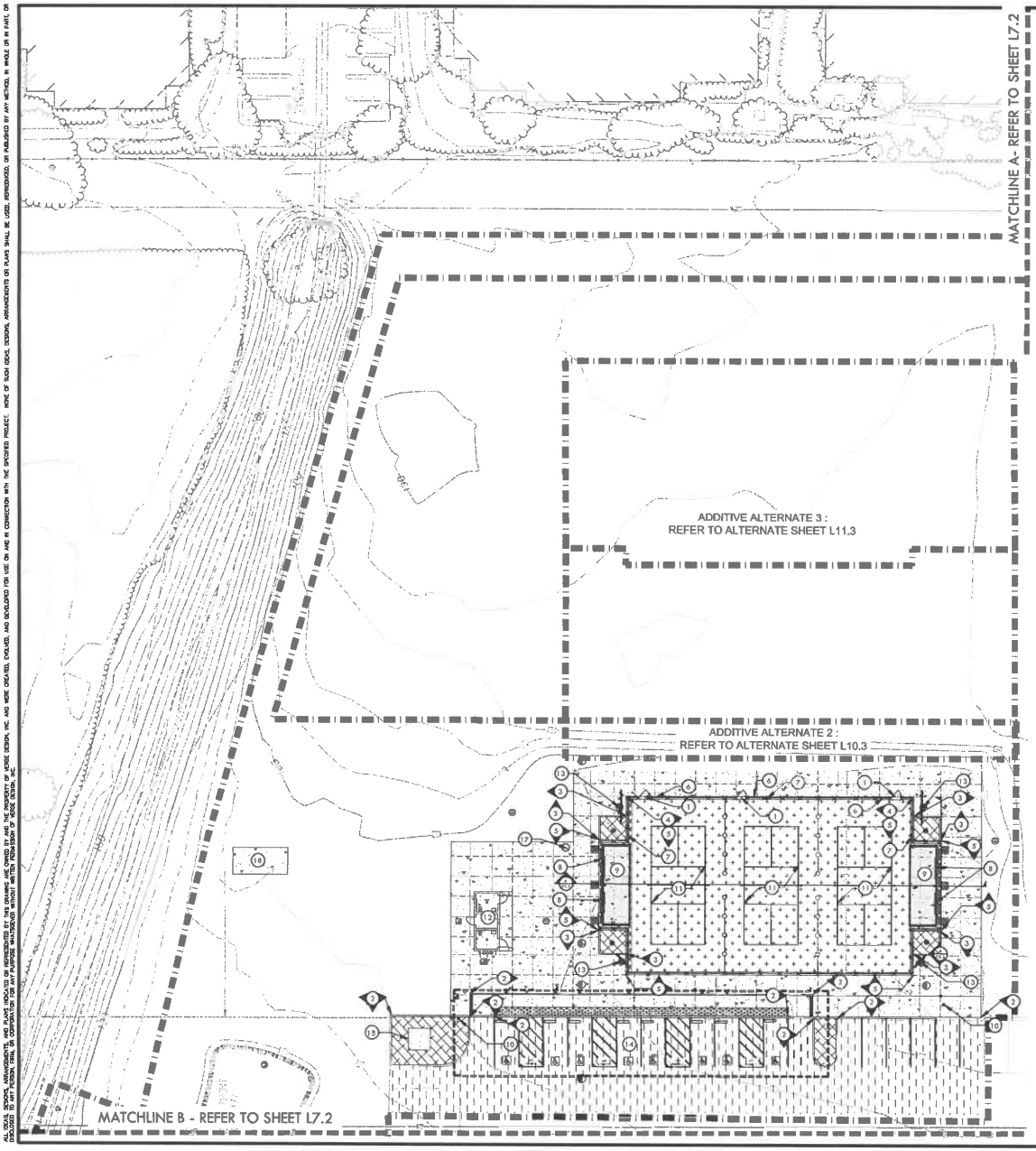


MATERIAL LEGEND

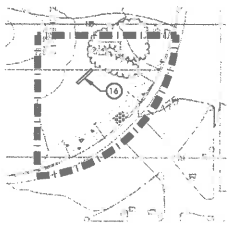
SYM	DESCRIPTION	DTL REF
11	PICKLE BALL COURT LAYOUT	A D5.1
12	COMFORT STATION - REFER TO SHEETS T1-E4	
13	COURT LIGHTING - REFER TO ELECTRICAL PLANS	
14	ACCESSIBLE PARKING	D D3.1
15	DRINKING FOUNTAIN WITH BOTTLE FILLER	G D1.1
16	PARK IDENTIFICATION SIGN LOCATED AT THE PARK ENTRANCE	I D2.1
17	TRASH RECEPTACLE	F D5.1
18	ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION	

MATERIAL NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. THE INTERFACE OF ALL PROPOSED IMPROVEMENTS TO EXISTING SITE SHALL CONFORM AND BE SMOOTH AND UNIFORM.
3. ALL REINFORCING AND FORMS SHALL BE SECURED IN PLACE AND ACCEPTED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING ANY CONCRETE.
4. CONCRETE FINISHES SHALL BE AS NOTED. CONTRACTOR SHALL PROVIDE 4'X4' SAMPLES OF ALL SPECIFIED FINISHES OF CONCRETE USING THE SAME MATERIALS THAT WILL BE USED IN THE ACTUAL CONSTRUCTION FOR EACH TYPE SPECIFIED. SAMPLES SHALL BE PREPARED WELL ENOUGH IN ADVANCE OF SCHEDULED CONCRETE POUR TO ALLOW FOR REVIEW AND POSSIBLE RE-POURING OF UNACCEPTABLE SAMPLES. UNACCEPTABLE SAMPLES SHALL BE RE-PREPARED UNTIL ACCEPTED BY THE OWNER'S REPRESENTATIVE. ACCEPTED SAMPLES SHALL BE PROTECTED AND REMAIN ON SITE FOR REFERENCE UNTIL FINAL ACCEPTANCE.
5. ALL FENCES AND GATES SHOWN ON PLAN ARE GRAPHIC REPRESENTATIONS; REFER TO DETAILS AND SPECIFICATIONS FOR PRECISE LOCATION.
6. ASPHALT SHALL NOT BE INSTALLED UNTIL ALL EDGES AND SITE FURNISHING PADS ARE INSTALLED.

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
	CONCRETE PAVING - PEDESTRIAN	A D2.1
	ASPHALT PAVING - VEHICULAR	C D2.1
	TRUNCATED DOMES (RECESSED) - REFER TO SPECIFICATIONS	K, L D3.1
	PICKLE BALL COURT SURFACING	C D5.1
	MULCH - REFER TO SPECIFICATIONS	
	PLANT WELL	D D7.1
	DOWELED COLD JOINT CONTROL JOINT	B D2.1
	TRENCH DRAIN	B D1.1
	48" TALL CHAIN LINK FENCE WITH TOP RAIL SAFETY PADDING	C D4.1
	10' TALL CHAIN LINK FENCE WITH 10' TALL WINDSCREEN	E D4.1
	TRELLIS SYSTEM	I D4.1
1	8' TALL X 4' WIDE GATE WITH TRANSOM AND WINDSCREEN	F D4.1
2	6" CURB	E D2.1
3	6" WIDE TALL CURB	F D2.1
4	12" WIDE EDGEBAND WITH FENCE	G D2.1
5	12" WIDE TALL CURB WITH FENCE	H D2.1
6	COURT IDENTIFICATION SIGN INSTALLED ON THE OUTSIDE OF THE COURT SIDE	D D5.1
7	PICKLE BALL PADDLE RACK INSTALLED ON COURT SIDE	G D5.1
8	LEANING RAIL	E D5.1
9	10' X 30' CANTILEVER SHADE STRUCTURE - REFER TO SHEETS S5.1-S5.5	
10	SECURITY LIGHT POLE	E D5.1



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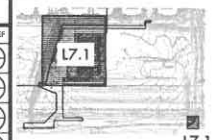
REGISTERED LANDSCAPE ARCHITECT
MARK S. BROWN
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP



SHEET TITLE

MATERIAL AND DETAIL REFERENCE PLAN

PROJECT NAME

GIBSON PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2021
75% SUBMITTAL	11/2021
100% SUBMITTAL	05/2022

NO.	REVISIONS	DATE
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DRAWN BY	CHECKED BY
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DATE ISSUED	SCALE
05/20/2022	1"=20'-0"

PROJ. NO.
2014500

SHEET NO.
L7.1 OF SHEETS

MATERIAL AND DETAIL REFERENCE PLAN

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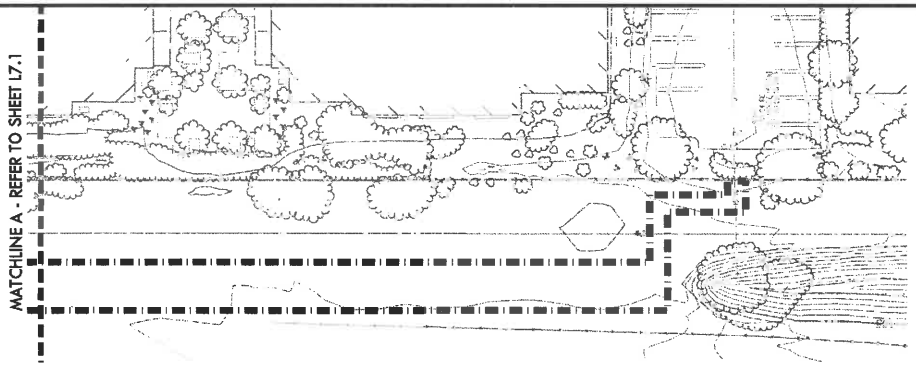

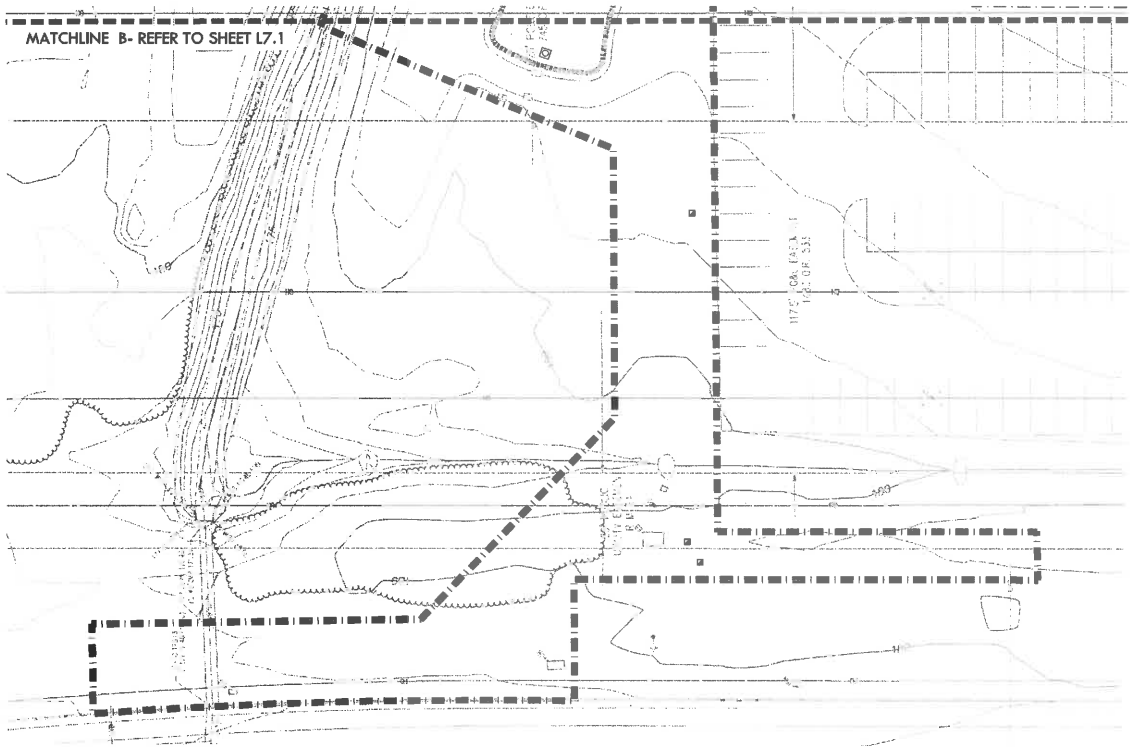

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
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12	COMFORT STATION - REFER TO SHEETS T1-E4	
13	COURT LIGHTING - REFER TO ELECTRICAL PLANS	
14	ACCESSIBLE PARKING	D D3.1
15	DRINKING FOUNTAIN WITH BOTTLE FILLER	G D1.1
16	PARK IDENTIFICATION SIGN LOCATED AT THE PARK ENTRANCE	I D2.1
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	MULCH - REFER TO SPECIFICATIONS	
	PLANT WELL	D D7.1
	DOWELED COLD JOINT CONTROL JOINT	S D2.1
	TRENCH DRAIN	B D1.1
	48" TALL CHAIN LINK FENCE WITH TOP RAIL SAFETY PADDING	C D4.1
	10' TALL CHAIN LINK FENCE WITH 10' TALL WINDSCREEN	E D4.1
	TRELLIS SYSTEM	I D4.1
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4	12" WIDE EDGEBAND WITH FENCE	G D2.1
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10	SECURITY LIGHT POLE	

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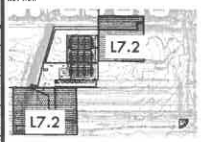

SHEET TITLE

MATERIAL AND DETAIL REFERENCE PLAN

PROJECT NAME

GIBSON PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2
75% SUBMITTAL	04/17/22
100% SUBMITTAL	08/10/22

NO.	REVISIONS	DATE
1		
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DRAWN BY	CHECKED BY
AL	CS
DATE ISSUED	SCALE
05/20/2022	1"=20'-0"

PROJ. NO. 2014500

SHEET NO. L7.2 OF SHEETS

MATERIAL AND DETAIL REFERENCE PLAN

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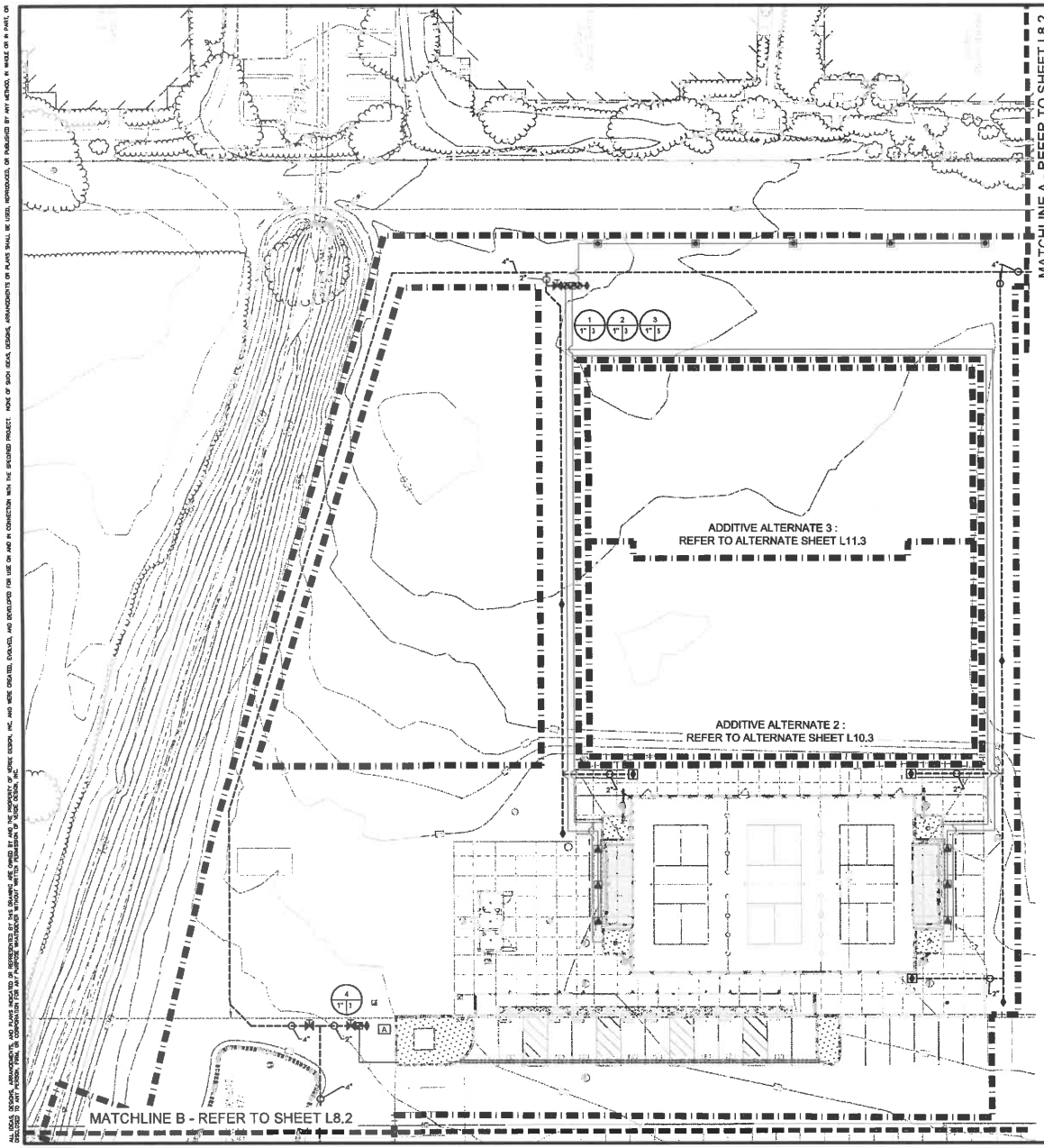

IRRIGATION LEGEND

SYM.	ITEM	MANUFACTURE MODEL NO./DESCR.	DTL REF
A	IRRIGATION CONTROLLER	IRRIGATION CONTROLLER SHALL BE CALSENSE CONVENTIONAL TOP ENTRY PEDESTAL STAINLESS STEEL CONTROLLER. CONTROLLER ASSEMBLY TO INCLUDE: • CS3000 48 STATION CONTROLLER • CS3-867A-ATT, CS3-465B-ATT • CS3-LR CALSENSE RADIO • CS3-551 ENCLOSURE WITH CS3000 TRANSIENT PROTECTION, TP-110 AC LINE PROTECTION, LR-STUB8Y WITH 3-FOOT CABLE, ON/OFF SWITCH AND GFI OUTLET INSIDE ENCLOSURE. LANDSCAPE CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE STUB-OUT FOR POWER AND DATA TO CONTROLLER AS NEEDED. AUTOMATIC CONTROLLERS DISTRIBUTED BY EWING IRRIGATION, 500 BERRY STREET #B, ROSEVILLE CA, ATTN. TOM MONNAN (916)912-5032	A D6.1
	LATERAL LINE	3/4" LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.	
	MAIN LINE	MAIN LINE 2-1/2" AND SMALLER - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS AT 24" DEPTH. MAIN LINE 3" AND LARGER - CLASS 200 PVC PIPE RUBBER GASKETED PIPE AT 24" DEPTH. MAIN LINE SHOWN IN HARDSCAPE FOR PLAN CLARITY. CONTRACTOR SHALL INSTALL MAIN LINE IN ADJACENT PLANTER AREA.	/D D6.1
	MAIN LINE CAP	IRRIGATION MAIN LINE CAP. CONTRACTOR TO STUB AND CAP MAIN LINE FOR FUTURE USE.	
	SLEEVES	PIPE AT PAVEMENTS (SLEEVES SHALL BE SCHEDULE 40 PVC. SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.	
POC		POINT OF CONNECTION - CONTRACTOR TO FIELD LOCATE EXISTING WATER UTILITY LINE/STUB IN APPROXIMATE LOCATION SHOWN. CONTRACTOR SHALL TAP ONTO LINE AND EXTEND MAIN LINE AS SHOWN. INSTALL GATE VALVE PER CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT STANDARDS AND DETAILS, LATEST EDITION.	
1		AREA FOR FUTURE IRRIGATION BOOSTER PUMP SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE A MINIMUM 14'X14' CLEAR SPACE TO ALLOW FOR FUTURE PUMP PAD AND ACCESS SPACE.	
		LIMIT OF WORK	
1 / 1" / 11.3		CONTROLLER STATION NUMBER APPROX. GPM FLOW THROUGH VALVE CONTROL VALVE SIZE	

IRRIGATION NOTES

1. THE SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF 50 GPM WITH A MINIMUM 45 STATIC PSI AT THE EMITTER. CONTRACTOR SHALL VERIFY A STATIC PRESSURE OF 85 PSI AT THE TAP PRIOR TO BEGINNING WORK. CONTACT OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAY.
2. ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES AND ORDINANCES. ALL IRRIGATION WORK SHALL CONFORM TO THE LANDSCAPE SECTION OF THE STANDARD PLAN DETAILS FOR PUBLIC WORKS CONSTRUCTION. PROJECT DETAILS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER STANDARD PLAN DETAILS.
3. ALL PLASTIC FITTINGS SHALL BE A MINIMUM OF 18" APART TO FACILITATE REMOVAL AND REPLACEMENT OF INDIVIDUAL FITTINGS. TRENCHING DEPTHS OF POTABLE WATER MAIN SHALL BE 24". ALL MAINS, LATERALS AND CONTROL WIRES SHALL BE INSTALLED IN SCHEDULE 40 P.V.C. SLEEVES (OF APPROPRIATE SIZE) UNDER ALL A.C. AND P.C.C. PAVEMENT.
4. IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE PLANTERS, OR LIMIT OF WORK, INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN PLANTER AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS.
5. CONTRACTOR SHALL ADJUST IRRIGATION HEADS FOR HEAD-TO-HEAD COVERAGE WHILE REDUCING OVER SPRAY ONTO WALKWAYS AND ADJACENT STRUCTURES. VALVES SHALL BE ADJUSTED TO AVOID MISTING AS APPLICABLE. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY ONLY WITH THE APPROVAL OF THE CITY ENGINEER.
6. CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. IRRIGATION LATERAL LINE JOINTS, TEE AND ELBOWS SHALL NOT BE PACED UNDER CONCRETE PAVING.

IRRIGATION LEGEND

SYM.	ITEM	MANUFACTURE MODEL NO./DESCR.	RAD./DES	GPM	PSI	DTL REF
	BUBBLER	RAIN BIRD 1804-PRS WITH 1402 SERIES BUBBLER	1'	0.50	40	E D6.2
	TREE BUBBLER	RAIN BIRD RWS-B-C-1402 SYMBOL INDICATES 2 PER TREE	-	0.50	40	E D6.1
		RAINBIRD XFS SUB-SURFACE DRIPLINE XFS-09-18 WITH .6 GPH AND 18" SPACING FOR EMITTERS; TUBING IS TO BE LAID DOWN WITH 18" O.C. SPACING. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS, DETAILS, AND SPECIFICATIONS. EACH PLANTER TO INCLUDE A LINE FLUSHING VALVE AND DRIP INDICATOR PER SPECIFICATIONS.				F/G D6.2
	GATE VALVE	NIBCO GATE VALVES SHALL BE LINE SIZED PER PLANS. VALVES 3" AND SMALLER SHALL BE NIBCO T-113-LF. VALVES 4" AND LARGER SHALL BE NIBCO F-619-LF FLANGED VALVE WITH SQUARE OPERATING NUT.				G/I D6.1
	QUICK COUPLING VALVE	RAIN BIRD 44-LRC 1", 2-PIECE BODY WITH 44-K KEY AND SH-1 HOSE SWIVEL, INSTALLED IN LANDSCAPE AREA.				A D6.2
	QUICK COUPLING VALVE	RAIN BIRD 44-LRC 1", 2-PIECE BODY WITH 44-K KEY AND SH-1 HOSE SWIVEL, INSTALLED IN HARDSCAPE AREA. CONTRACTOR TO ALIGN QUICK COUPLER VALVE BOX ADJACENT TO FENCE EDGEBAND.				D D6.2
	REMOTE CONTROL VALVE	RAIN BIRD PEB-PRS-D SERIES PRESSURE REGULATED PLASTIC REMOTE CONTROL VALVE. SIZE AS SHOWN, INSTALL WITHIN VALVE BOX WITH COVER AND 'ICV' HEAT BRANDED ON COVER. INSTALL WITH ISOLATION VALVE PER CITY STANDARD DETAIL.				B D6.2
	REMOTE CONTROL VALVE (DRIP)	RAIN BIRD DRIP ZONE KIT XCZ-100-PRB-I-C PLASTIC REMOTE CONTROL VALVE WITH 1" PRESSURE REGULATING BASKET FILTER. SIZE AS SHOWN, INSTALL WITHIN VALVE BOX WITH COVER AND 'ICV' HEAT BRANDED ON COVER. INSTALL WITH ISOLATION VALVE PER CITY STANDARD DETAIL.				I D6.1
M	IRRIGATION WATER SERVICE	CONTRACTOR SHALL PURCHASE 3" TURBO WATER METER THROUGH THE CITY AND INSTALL AT APPROXIMATE LOCATION AS SHOWN ON THE PLANS. INSTALL PER CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT STANDARDS AND DETAILS, LATEST EDITION.				
BF	IRRIGATION BACKFLOW DEVICE	WATTS 3" MODEL LF909-NBS BACKFLOW PREVENTER DEVICE. INSTALL PER CITY OF ROSEVILLE ENVIRONMENTAL UTILITES DEPARTMENT STANDARDS AND DETAILS, LATEST EDITION.				
MV	MASTER VALVE	1" SUPERIOR MODEL 3300, ELECTRIC GLOBE VALVE CONSTRUCTED OF BRASS. REFER TO STANDARD SPECIFICATIONS. VALVE SHALL BE INSTALLED IN A 'JUMBO' SIZED VALVE BOX WITH LOCKING COVER AND 'MV' HEAT BRANDED ON COVER.				B D6.1
FS	FLOW SENSOR	CALSENSE MODEL FM-15 WITH MINIMUM FLOW READING OF 5 GPM AND MAXIMUM FLOW READING OF 50 GPM.				B D6.1

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NORTH
0' 10' 40' 60'

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EXPIRATION DATE: JULY 2023
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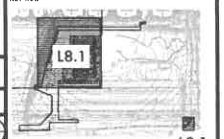
KEY MAP



SHEET TITLE
IRRIGATION PLAN

PROJECT NAME
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NO.	REVISIONS	DATE
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DRAWN BY: JC
CHECKED BY: CS
DATE ISSUED: 05/20/2022
SCALE: 1"=20'-0"
PROJ. NO.: 2014500
SHEET NO.: L8.1 OF SHEETS

IRRIGATION PLAN

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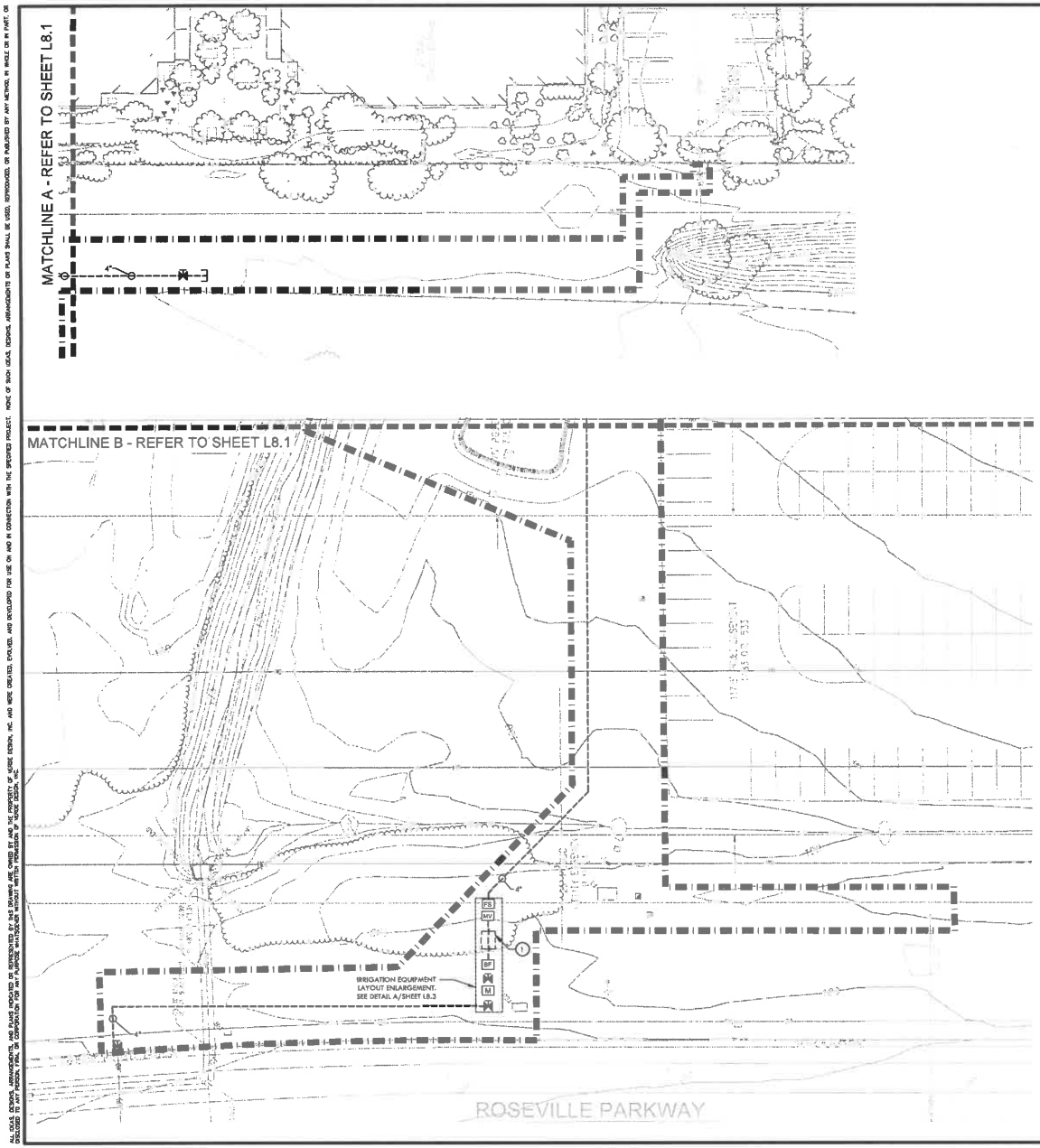


IRRIGATION LEGEND

SYM.	ITEM	MANUFACTURE MODEL NO./DESCR.	DTL REF
A	IRRIGATION CONTROLLER	**IRRIGATION CONTROLLER SMALL TE - CALSENSE CONVENTIONAL TOP ENTRY PEDESTAL STAINLESS STEEL CONTROLLER. CONTROLLER ASSEMBLY TO INCLUDE:** • CS3000 48 STATION CONTROLLER • CS3-ESTA-KIT, CS3-MSBR-KIT • CS3-LR CALSENSE RADIO • CS3-ES1 ENCLOSURE WITH CS3000 TRANSIENT PROTECTION, TP-110 AC LINE PROTECTION, LR-STUBBY WITH 3-FOOT CABLE, ON/OFF SWITCH AND GFI OUTLET INSIDE ENCLOSURE. LANDSCAPE CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE STUBOUT FOR POWER AND DATA TO CONTROLLER AS NEEDED. AUTOMATIC CONTROLLERS DISTRIBUTED BY EWING IRRIGATION, 500 BERRY STREET #9, ROSEVILLE CA, ATTN. TOM NOONAN (916)812-5032	A D6.1
	LATERAL LINE	3/4" LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.	
	MAIN LINE	MAIN LINE 2-1/2" AND SMALLER - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS AT 24" DEPTH. MAIN LINE 3" AND LARGER - CLASS 200 PVC PIPE RUBBER GASKETED PIPE AT 24" DEPTH. MAIN LINE SHOWN IN HARDSCAPE FOR PLAN CLARITY. CONTRACTOR SHALL INSTALL MAIN LINE IN ADJACENT PLANTER AREA.	A/D.1 D6.1
	MAIN LINE CAP	IRRIGATION MAIN LINE CAP. CONTRACTOR TO STUB AND CAP MAIN LINE FOR FUTURE USE.	
	SLEEVES	PIPE AT PAVEMENTS (SLEEVES) SHALL BE SCHEDULE 40 PVC. SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.	
POC		POINT OF CONNECTION - CONTRACTOR TO FIELD LOCATE EXISTING WATER UTILITY LINE/STUB IN APPROXIMATE LOCATION SHOWN. CONTRACTOR SHALL TAP ONTO LINE AND EXTEND MAIN LINE AS SHOWN. INSTALL GATE VALVE PER CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT STANDARDS AND DETAILS, LATEST EDITION.	
1		AREA FOR FUTURE IRRIGATION BOOSTER PUMP SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE A MINIMUM 14'X14' CLEAR SPACE TO ALLOW FOR FUTURE PUMP PAD AND ACCESS SPACE.	
		LIMIT OF WORK	
		CONTROLLER STATION NUMBER	
1" 11.0		APPROX. GPM FLOW THROUGH VALVE	
		CONTROL VALVE SIZE	

IRRIGATION NOTES

1. THE SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF 50 GPM WITH A MINIMUM 45 STATIC PSI AT THE EMITTER. CONTRACTOR SHALL VERIFY A STATIC PRESSURE OF 85 PSI AT THE TAP PRIOR TO BEGINNING WORK. CONTACT OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAY.
2. ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES AND ORDINANCES. ALL IRRIGATION WORK SHALL CONFORM TO THE LANDSCAPE SECTION OF THE STANDARD PLAN DETAILS FOR PUBLIC WORKS CONSTRUCTION. PROJECT DETAILS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER STANDARD PLAN DETAILS.
3. ALL PLASTIC FITTINGS SHALL BE A MINIMUM OF 18" APART TO FACILITATE REMOVAL AND REPLACEMENT OF INDIVIDUAL FITTINGS. TRENCHING DEPTHS OF POTABLE WATER MAIN SHALL BE 24". ALL MAINS, LATERALS AND CONTROL WIRES SHALL BE INSTALLED IN SCHEDULE 40 P.V.C. SLEEVES (OF APPROPRIATE SIZE) UNDER ALL A.C. AND P.C.C. PAVEMENT.
4. IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE PLANTERS, OR LIMIT OF WORK, INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN PLANTER AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS.
5. CONTRACTOR SHALL ADJUST IRRIGATION HEADS FOR HEAD-TO-HEAD COVERAGE WHILE REDUCING OVER SPRAY ONTO WALKWAYS AND ADJACENT STRUCTURES. VALVES SHALL BE ADJUSTED TO AVOID MISTING AS APPLICABLE. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY ONLY WITH THE APPROVAL OF THE CITY ENGINEER.
6. CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. IRRIGATION LATERAL LINE JOINTS, TEE AND ELBOWS SHALL NOT BE PACED UNDER CONCRETE PAVING.

IRRIGATION LEGEND

SYM.	ITEM	MANUFACTURE MODEL NO./DESCR.	RAD./ DES	GPM	PSI	DTL REF
B	BUBBLER	RAIN BIRD 1804-PRS WITH 1402 SERIES BUBBLER	1'	0.50	40	E D6.3
B	TREE BUBBLER	RAIN BIRD RWS-B-C-1402 SYMBOL INDICATES 2 PER TREE	-	0.50	40	E D6.1
		RAINBIRD XFS SUB-SURFACE DRIPLINE XFS-09-18 WITH .6 GPH AND 18" SPACING FOR EMITTERS; TUBING IS TO BE LAID DOWN WITH 18" O.C. SPACING. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS, DETAILS, AND SPECIFICATIONS. EACH PLANTER TO INCLUDE A LINE FLUSHING VALVE AND DRIP INDICATOR PER SPECIFICATIONS.				F/G D6.3
	GATE VALVE	NIBCO GATE VALVES SHALL BE LINE SIZED PER PLANS. VALVES 3" AND SMALLER SHALL BE NIBCO T-113-LF. VALVES 4"AND LARGER SHALL BE NIBCO F-619-LF FLANGED VALVE WITH SQUARE OPERATING NUT.				G/H D6.1
	QUICK COUPLING VALVE	RAIN BIRD 44-LRC; 1", 2-PIECE BODY WITH 44-K KEY AND SH-1 HOSE SWIVEL INSTALLED IN LANDSCAPE AREA.				A D6.2
	QUICK COUPLING VALVE	RAIN BIRD 44-LRC; 1", 2-PIECE BODY WITH 44-K KEY AND SH-1 HOSE SWIVEL INSTALLED IN HARDSCAPE AREA. CONTRACTOR TO ALIGN QUICK COUPLER VALVE BOX ADJACENT TO FENCE EDGEBAND.				D D6.2
	REMOTE CONTROL VALVE	RAIN BIRD PEB-PRS-D SERIES PRESSURE REGULATED PLASTIC REMOTE CONTROL VALVE. SIZE AS SHOWN, INSTALL WITHIN VALVE BOX WITH COVER AND 'RCV' HEAT BRANDED ON COVER. INSTALL WITH ISOLATION VALVE PER CITY STANDARD DETAIL.				B D6.2
	REMOTE CONTROL VALVE (DRIP)	RAIN BIRD DRIP ZONE KIT XCZ-100-PRB-LC PLASTIC REMOTE CONTROL VALVE WITH 1" PRESSURE REGULATING BASKET FILTER. SIZE AS SHOWN, INSTALL WITHIN VALVE BOX WITH COVER AND 'RCV' HEAT BRANDED ON COVER. INSTALL WITH ISOLATION VALVE PER CITY STANDARD DETAIL.				I D6.1
M	IRRIGATION WATER SERVICE	CONTRACTOR SHALL PURCHASE 3" TURBO WATER METER THROUGH THE CITY AND INSTALL IN APPROXIMATE LOCATION AS SHOWN ON THE PLANS. INSTALL PER CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT STANDARDS AND DETAILS, LATEST EDITION.				
BF	IRRIGATION BACKFLOW DEVICE	WATTS 3" MODEL LF909-NRS BACKFLOW PREVENTER DEVICE. INSTALL PER CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT STANDARDS AND DETAILS, LATEST EDITION.				
MV	MASTER VALVE	1" SUPERIOR MODEL 3300, ELECTRIC GLOBE VALVE CONSTRUCTED OF BRASS. REFER TO STANDARD SPECIFICATIONS, VALVE SHALL BE INSTALLED IN A 'JUMBO' SIZED VALVE BOX WITH LOCKING COVER AND 'MV' HEAT BRANDED ON COVER.				B D6.1
FS	FLOW SENSOR	CALSENSE MODEL FM-1B WITH MINIMUM FLOW READING OF 2 GPM AND MAXIMUM FLOW READING OF 50 GPM.				B D6.1

NORTH
0' 10' 20' 40' 60'

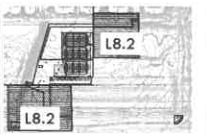
Not for Construction
For Council Approval

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.5554
fax: 916.415.5525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT — MARK S. BAGLIANO — No. 4089 — Signature — EXPIRATION DATE: JULY 2023 — STATE OF CALIFORNIA

KEY MAP



SHEET TITLE
IRRIGATION PLAN

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2
75% SUBMITTAL	01/17/22
100% SUBMITTAL	04/20/22

NO.	REVISIONS	DATE
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DRAWN BY: JC
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PROJ. NO.: 2014500
SHEET NO.: L8.2 OF SHEETS

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IRRIGATION AUDIT, SURVEY AND IRRIGATION WATER USE ANALYSIS NOTES

1. 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.
2. IN LARGE PROJECTS OR PROJECTS WITH MULTIPLE LANDSCAPE INSTALLATIONS (I.E. PRODUCTION HOME DEVELOPMENTS) AN AUDITING RATE OF 1 IN 7 LOTS OR APPROXIMATELY 15% OF THE PROJECTS IRRIGATION VALVES SHALL SATISFY THIS REQUIREMENT.
3. FOR NEW CONSTRUCTION AND REHABILITATED LANDSCAPE PROJECTS INSTALLED AFTER DECEMBER 1, 2015, AS DESCRIBED IN SECTION 14.18.030.
4. THE PROJECT APPLICANT SHALL SUBMIT AN IRRIGATION AUDIT REPORT WITH THE CERTIFICATE OF COMPLETION TO THE LOCAL AGENCY THAT MAY INCLUDE, BUT IS NOT LIMITED TO: INSPECTION, SYSTEM TUNE UP, SYSTEM TEST DISTRIBUTION UNIFORMITY, REPORTING OVERSPRAY OR RUN OFF THAT CAUSES OVERLAND FLOW, AND PREPARATION OF AN IRRIGATION SCHEDULE, INCLUDING CONFIGURING IRRIGATION CONTROLLERS WITH APPLICATION RATE, SOIL TYPES, PLANT FACTORS, SLOPE, EXPOSURE AND ANY OTHER FACTORS NECESSARY FOR ACCURATE PROGRAMING; (ENVIRONMENTAL UTILITIES-WELO)

PRESSURE LOSS CALCULATIONS

Equipment

Type	Description	
Meter	4" Master meter @SRE	6.00
Flow Sensor	1" Cobonna FM-1B @SRE	0.00
Master Valve	3" Superior 7100 @SRE	5.00
Isolation Valves	Rilnor Valves per plan	3.00
Electric Remote Control Valve	1" Rain Bird PEB @SRE	7.00
POC Metering (10% of equipment)		6.00

Piping

Pipe	Description	Under Feet	Lateral100	Summer	psi
Class 200	4" SCH40 equipment @SRE	90	0.01	0.01	0.01
Class 200	4" to valve manifold @SRE	60	0.01	0.02	0.02
Class 200	2" to valve @SRE	12	0.06	0.08	0.08
Sch. 40	2.5" @SRE	407	0.84	3.42	3.42
				Total Mainline Loss	3.51

Pipe Fittings and bends (10% of pipe losses) 1.18

Elevation Change

	Elevation	Multiplier	Loss / Gain	psi
(difference in elevation between point of connection and irrigation head)	13	0.43	5.59	5.59
			Total System Pressure Loss:	10.28

Calculations

Static Pressure (at point of connection)	65.00
Buffer (-15% of static pressure due to system fluctuations)	9.75
Available pressure (static pressure - buffer - total system pressure loss)	56.00
Pressure Required at irrigation head	45.00
Excess pressure (available pressure - pressure required)	11.00

WATER EFFICIENT LANDSCAPE CALCULATIONS

WATER EFFICIENT LANDSCAPE CALCULATIONS

PROJECT	CITY OF ROSEVILLE GIBSON PARK
TOTAL LANDSCAPE AREA (SF)	1,353
TOTAL IRRIGATED LANDSCAPE AREA (SF)	1,353
TOTAL IRRIGATED SPECIAL LANDSCAPE AREA (SF)	0
HISTORIC ETo (INCHES/YEAR)	52.20

MAXIMUM ANNUAL WATER ALLOWANCE (MAWA)

MAWA = (ETo)(0.62) [(0.7xLA) + ((0.3)xSLA)]

MAWA = 30,648 GALS/YEAR

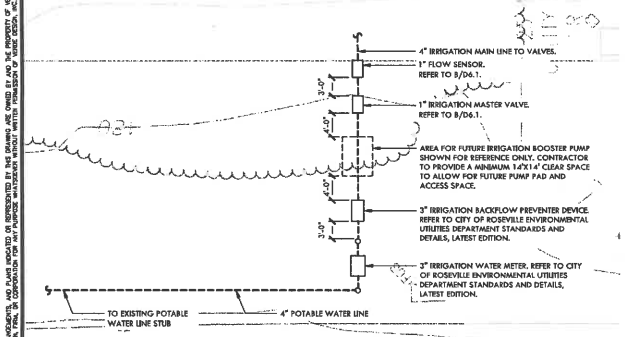
ESTIMATED TOTAL WATER USE (ETWU)

ETWU = (ETo)(0.62) [((PFxHA)/(IE)+SLA)]

HYDROZONE/ IRRIGATION METHOD	PLANT FACTOR (PF)	IRRIGATION EFFICIENCY (IE)	AREA (HA)	ETWU
Special Landscape Areas				
SHRUBS AND GROUNDCOVER - DRIP - LOW	0.2	0.81	1,245	9949
VINES - DRIP - MEDIUM	0.4	0.81	108	1726
		TOTAL	1,353	11,675

ETWU = 11,675 GAL/YEAR

UNDER MAWA = 18,973 GALS/YEAR



NOTE

1. MEASUREMENTS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL DETERMINE FINAL LAYOUT OF EQUIPMENT PER CITY STANDARDS AND PROVIDE APPROPRIATE CLEARANCE AREA PER THE RECOMMENDED DIMENSIONS FROM THE MANUFACTURER.

A **IRRIGATION EQUIPMENT LAYOUT ENLARGEMENT** NTS

GENERAL IRRIGATION NOTES

1. THIS SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF 50 GPM WITH A MINIMUM 85 STATIC P.S.I. AT THE POINT OF CONNECTION. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK. CONTACT CITY IMMEDIATELY SHOULD DISCREPANCY ARISE AND RE-DIRECT WORK TO AVOID DELAY.
2. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE CITY'S REPRESENTATIVE.
4. THE CONTRACTOR SHALL OBTAIN ALL THE PERTINENT ENGINEERING AND LANDSCAPE PLANS BEFORE BEGINNING WORK.
5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
6. THE MAINLINE AND SLEEVING ARE DIAGRAMMATIC. ALL PIPING IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED WITHIN LIMIT OF WORK BOUNDARIES AND IN SHRUB PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES.
7. ALL IRRIGATION EQUIPMENT AS SHOWN IS DIAGRAMMATIC. INSTALL ALL THE IRRIGATION REMOTE CONTROL VALVES, QUICK COUPLERS, MASTER VALVES, FLOW SENSORS, BACKFLOWS, AIR VACUUM DEVICES, AND BALL VALVES, IN SHRUB PLANTING AREAS APPROVED BY THE CITY'S REPRESENTATIVE.
8. DO NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE CITY.
9. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION. ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE CITY.
10. ACTUAL LOCATION FOR THE INSTALLATION OF THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BY THE CITY'S REPRESENTATIVE.
11. CONTRACTOR IS TO PROVIDE THREE (3) ADDITIONAL PILOT WIRES AND ONE (1) COMMON WIRE TO THE END OF THE MAINLINE RUN IN TWO DIRECTIONS FROM THE CONTROLLER. THE ADDITIONAL WIRE SHALL BE EXTENDED 36", MAKING A COIL TO FIT INSIDE A RECTANGULAR PULL BOX. LABEL THE LID OF THE PULL BOX 'SW'.
12. ALL PIPE UNDER PAVED AREAS, HARDSCAPE, OR AS DIRECTED BY THE CITY, TO BE INSTALLED IN SLEEVING, TWICE THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED. ALL 2" AND 3" SLEEVING SHALL BE PVC 1220 SCH. 40, TYPE 1, GRADE 2 MATERIAL CONFORMING TO ASTM STANDARD D-1785-4. ALL 4" AND LARGER SLEEVING SHALL BE PVC 1220 CLASS 200 SDR21, TYPE 1, GRADE 2 MATERIAL CONFORMING TO ASTM STANDARD D-2241. SLEEVES UNDER BROW DITCHES SHALL BE ENCASED IN CONCRETE A MINIMUM OF 6" THICK ON ALL SIDES OF PIPE. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF PAVING.
13. ALL QUICK COUPLER VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER VALVES WITHIN 18" OF HARDSCAPE.
14. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLES. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS. WHEN VERTICAL OBSTRUCTIONS (PROPS, STREET LIGHTS, TREES, ETC.) INTERFERE WITH THE SPRAY PATTERN OF THE SPRINKLER HEADS PREVENTING PROPER COVERAGE, THE IRRIGATION CONTRACTOR SHALL FIELD ADJUST THE SPRINKLER SYSTEM BY INSTALLING A QUARTER CIRCLE OR HALF CIRCLE SPRINKLER HEAD ON EACH SIDE OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE CITY.
15. THE IRRIGATION CONTRACTOR SHALL ADJUST THE PRESSURE REGULATOR (PRS-D) ON EACH ELECTRIC CONTROL VALVE SO THAT THE SPRINKLER HEAD FARTHEST AND HIGHEST IN ELEVATION FROM ITS RESPECTIVE CONTROL VALVE OPERATES WITHIN THE OPERATING PRESSURE SHOWN ON THE IRRIGATION LEGEND. NOT TO EXCEED FIVE (5) PSI ABOVE THE GIVEN OPERATING PRESSURE FROM THE SPECIFIED PRESSURE LOCATED ON THE IRRIGATION LEGEND.
16. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE CITY'S AUTHORIZED REPRESENTATIVE. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO START OF CONSTRUCTION, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS, AND COSTS ASSOCIATED WITH SAID REVISIONS.
17. SHOULD FIELD CONDITIONS REQUIRE PIPE INSTALLATION OTHER THAN THAT SHOWN ON PLANS, THE CONTRACTOR SHALL LIMIT EXCESS FLOW AND SIZE ALL PIPE NOT TO EXCEED A VELOCITY OF 5 FEET PER SECOND (FPS) IN PVC PIPE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE CITY.
18. CONTRACTOR SHALL COMPLY WITH AB1881 REQUIREMENTS AND ANY OTHER WATER REDUCTION MANDATE ENFORCED AT TIME OF CONSTRUCTION.
19. SWING JOINTS AND OTHER RISER PROTECTION COMPONENTS SHALL BE PROVIDED ON ALL RISERS SUBJECT TO DAMAGE THAT ARE ADJACENT TO HARDSCAPE ELEMENTS OR HIGH TRAFFIC AREAS OF TURF.

IRRIGATION SCHEDULE

IRRIGATION SCHEDULE REFERENCE DATA

PROJECT INFORMATION		SOIL SAMPLE SUMMARY	
PROJECT NAME	Gibons Park	SAMPLE DATE:	SAND
LOCATION	1099 Roseville Parkway, Roseville, CA 95678		SILT
NEAREST WEATHER STATION LOCATION	FAIR OAKS		CLAY

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Reference Eto (in. mo.)	1.07	2.40	2.89	3.16	6.81	7.61	7.62	7.34	5.25	3.72	1.30	1.61
Historical average precipitation	6.98	5.70	5.11	2.92	1.18	0.34	0.90	0.90	0.35	2.00	4.23	5.72
Effective precipitation (historical average -0.2" = 75%)	3.09	4.13	3.68	2.04	0.74	0.11	0.53	0.53	0.11	1.35	3.02	4.14
Base required irrigation (in. mo.)	0.00	0.00	0.00	1.12	6.08	7.51	7.10	6.82	5.14	2.37	0.00	0.00

HYDROZONE DATA

VALVE	DESCRIPTION (ORIENTATION, WATER USE)	KS	KD	KMC	KL	IRR TYPE	IE	PR	SOIL TYPE	BIR	AW	RZ	PAW	MAD	AD	AREA (SF)	% OF LANDSCAPE
1	Vine Planting - Medium Water Use	0.5	0.8	1.0	0.40	Bubbler	0.81	1.00	Sandy Clay Loams	0.5	0.08	12	0.96	50%	0.48	108	7.98%
2	Shrubs and Groundcover - Low Water Use	0.2	1.0	1.0	0.20	Subsurface	0.81	1.00	Sandy Clay Loams	0.5	0.08	12	0.96	50%	0.48	644	47.60%
3	Trees - Low Water Use	0.2	0.8	1.0	0.16	Bubbler	0.81	1.00	Sandy Clay Loams	0.5	0.08	36	2.88	50%	1.44	N/A	
4	Parking Lot - Low Water Use	0.2	1.0	1.0	0.20	Subsurface	0.81	1.00	Sandy Clay Loams	0.5	0.08	12	0.96	50%	0.48	601	44.42%
																Total Irrigated Area:	1353	100%

LEGEND: KS=SPECIES COEFFICIENT, KD=DENSITY COEFFICIENT, KMC=MICRO-CLIMATE COEFFICIENT, KL=LANDSCAPE COEFFICIENT, IE= IRRIGATION EFFICIENCY, PR = PRECIPITATION RATE, BIR = BASIC INTAKE RATE, AW = AVAILABLE WATER, RZ = ROOT ZONE, PAW = PLANT AVAILABLE WATER, MAD = MANAGED ALLOWABLE DEPLETION (%), AD = ALLOWABLE DEPLETION (INCHES).

WATERING SCHEDULE

Zone	Description			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Vine Planting - Medium Water Use		Days / Week	0	0	0	1	3	4	4	4	1	0	0	0
			Cycles / Day	0	0	0	1	1	1	1	1	1	0	0	0
	Max. Minutes / Cycle	30	Min. / Cycle	0	0	0	3	14	13	12	12	9	16	0	0
2	Shrubs and Groundcover - Low Water Use		Days / Week	0	0	0	1	3	4	4	4	4	1	0	0
			Cycles / Day	0	0	0	1	1	1	1	1	1	1	0	0
	Max. Minutes / Cycle	30	Min. / Cycle	0	0	0	2	7	7	6	6	5	8	0	0
3	Trees - Low Water Use		Days / Week	0	0	0	3	3	4	4	4	4	1	0	0
			Cycles / Day	0	0	0	1	1	1	1	1	1	1	0	0
	Max. Minutes / Cycle	30	Min. / Cycle	0	0	0	2	6	6	5	5	4	7	0	0
4	Parking Lot - Low Water Use		Days / Week	0	0	0	3	3	4	4	4	4	1	0	0
			Cycles / Day	0	0	0	1	1	1	1	1	1	1	0	0
	Max. Minutes / Cycle	20	Min. / Cycle	0	0	0	4	7	7	6	6	5	8	0	0
Total Irrigation System Runtime (during establishment)			Percentage adjustment: 150%												
		Hrs		0.0	0.0	0.0	0.2	0.7	0.7	0.6	0.6	0.5	0.8	0.0	0.0
Total Irrigation System Runtime (normal operation)															
Maximum system runtime per irrigation day (single-station operation)		Hrs		0.0	0.0	0.0	0.1	0.5	0.4	0.4	0.4	0.3	0.5	0.0	0.0

NOTE

SPRAY IRRIGATION SHALL ONLY OPERATE BETWEEN THE HOURS OF 8PM-10AM.

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.8554
fax: 916.415.8525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT — MARK S. BASHAW — No. 4089 — Signature — EXPIRATION DATE: JULY 2023 — STATE OF CALIFORNIA

KEY MAP

SHEET TITLE
IRRIGATION NOTES AND SUPPORT INFORMATION

PROJECT NAME
GIBSON PARK

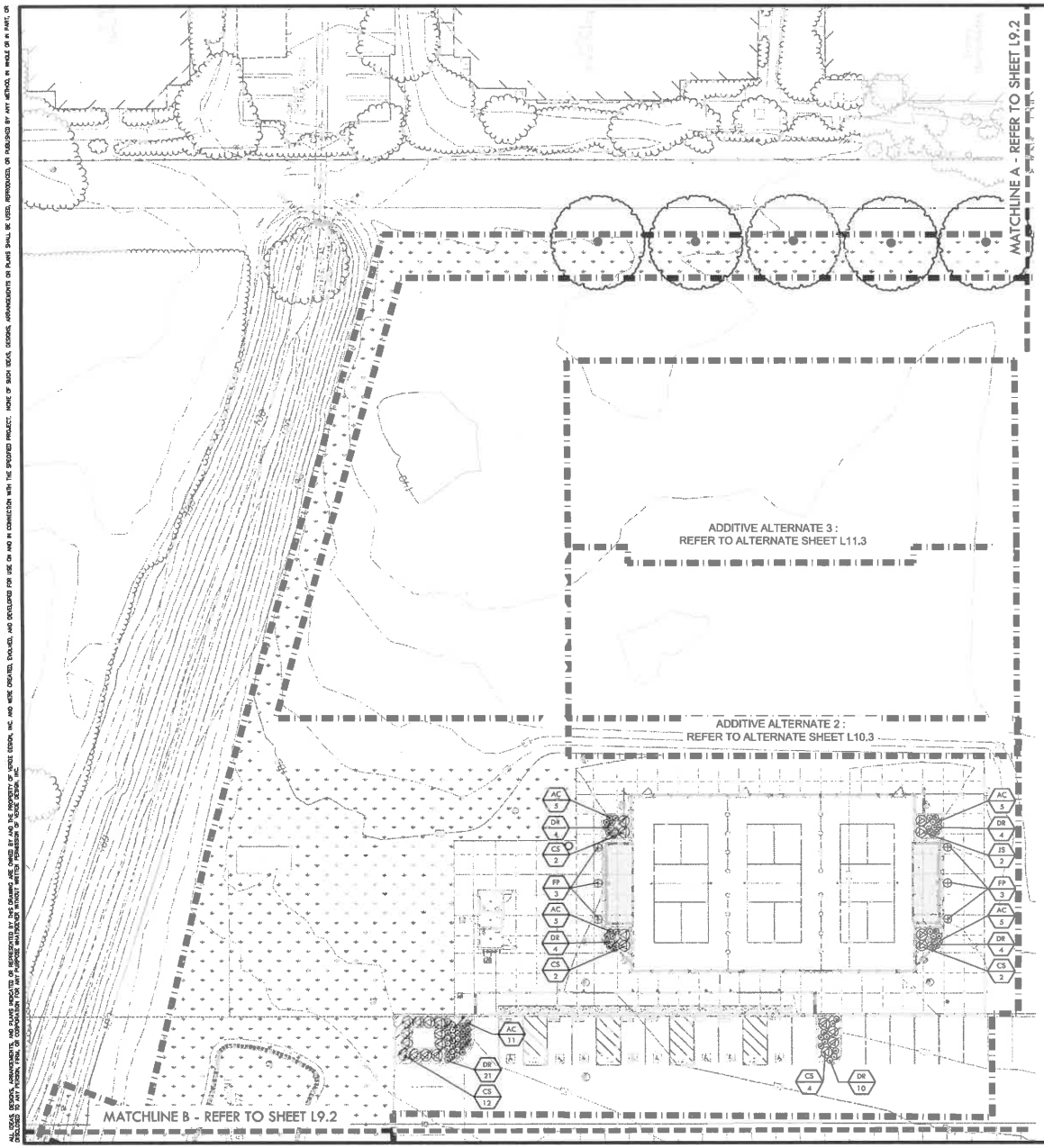
PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

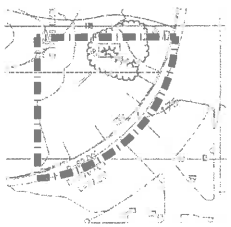
SUBMITTAL	DATE
30% SUBMITTAL	08/20/21
75% SUBMITTAL	01/17/22
100% SUBMITTAL	05/20/22

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		

DRAWN BY: JC
CHECKED BY: CS
DATE ISSUED: 05/20/2022
SCALE: N/A
PROJ. NO.: 2014500
SHEET NO.: L8.3 OF SHEETS
IRRIGATION NOTES

Not for Construction
For Council Approval





PLANTING NOTES

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2. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL PLANT MATERIAL FROM TIME OF DELIVERY TO TIME OF FINAL ACCEPTANCE. DEVELOPER SHALL NOT BE RESPONSIBLE FOR LOSSES DUE TO VANDALISM, THEFT OR SEVERE WEATHER.
3. CONTRACTOR SHALL PLACE PLANT MATERIALS SO THEY DO NOT INTERFERE WITH IRRIGATION SYSTEM OR INHIBIT REQUIRED COVERAGE. PLANT LOCATIONS MAY BE ADJUSTED AS LONG AS DESIGN INTENT IS NOT COMPROMISED. CONTRACTOR SHALL SET OUT PLANT MATERIAL AS PER PLAN AND RECEIVE ACCEPTANCE FROM DEVELOPER'S REPRESENTATIVE WITH RESPECT TO PLANT HEALTH AND LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL GIVE MINIMUM 2 WORKING DAYS NOTICE FOR OBSERVATION AND SHALL HAVE ALL PLANT MATERIAL IN SPECIFIED LOCATIONS FOR REVIEW AT ONE TIME. CONTRACTOR SHALL REPLACE ANY MATERIAL AS REQUESTED BY DEVELOPER'S REPRERESENTATIVE.
4. ALL NON-TURF PLANTING AREAS SHALL RECEIVE A 3" LAYER OF BARK MULCH TOP DRESS (UNLESS NOTED OTHERWISE). REFER TO SPECIFICATIONS.
5. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.
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PLANTING LEGEND

SYM	QTY	SIZE	BOTANICAL/COMMON NAME	SPACING	WATER USE REQUIREMENTS PER WUCOLS REGION 2 - CENTRAL VALLEY	DTL REF
TREES						
QW	5	15 GAL	QUERCUS WISLIZENII INTERIOR LIVE OAK	PER PLAN	LOW	
ACCENT PLANTS/GROUNDCOVER						
AC	31	1 GAL	APTENIA CORDIFOLIA 'VARIEGATA' VARIEGATED BABY SUN ROSE	24" O.C.	LOW	
DR	47	1 GAL	DIANELLA REVOLUTA 'LITTLE REV' LITTLE REV FLAX LILY	24" O.C.	LOW	
FP	6	1 GAL	FICUS PUMILA CREEPING FIG	PER PLAN	MED	
MEDIUM PLANTING						
CS	24	1 GAL.	CISTUS X SKANBERGII DWARF PINK ROCKROSE	48" O.C.	LOW	
MISCELLANEOUS						
			MULCH - REFER TO SPECIFICATIONS			
			NATIVE BROADCAST SEED - REFER TO SPECIFICATIONS			

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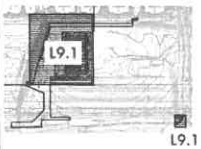
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BRADFORD
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP



L9.1

SHEET TITLE
PLANTING PLAN

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2[illegible]
75% SUBMITTAL	[illegible]
100% SUBMITTAL	[illegible]/22

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		

DRAWN BY	CHECKED BY
AL	CS
DATE ISSUED	SCALE
05/20/2022	1"=20'-0"

PROJ. NO.
2014500

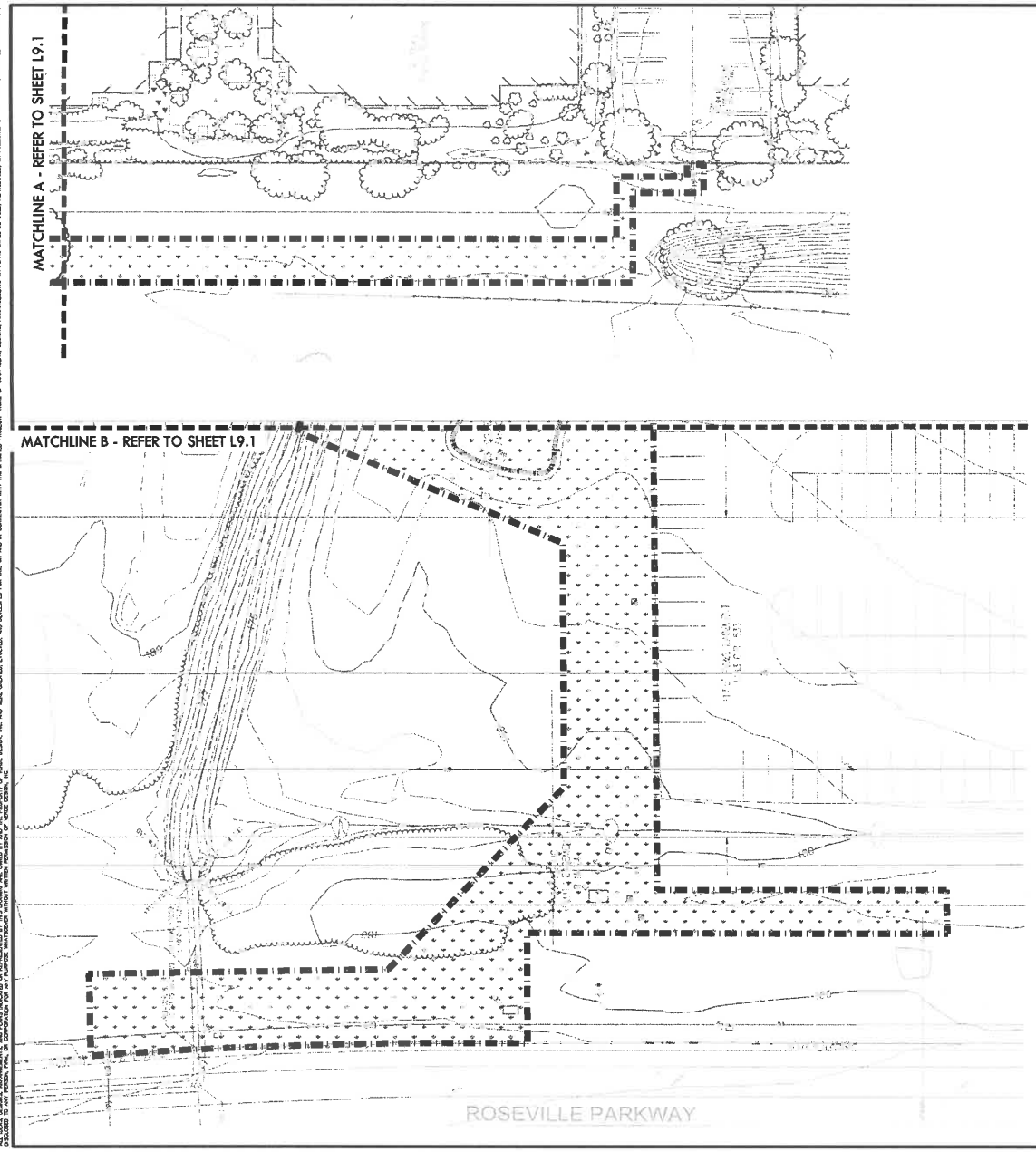
SHEET NO.
L9.1 OF SHEETS

NORTH
0' 10' 20' 40' 60'

Not for Construction
For Council Approval

PLANTING PLAN

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY PERSON, IN WHOLE OR IN PART, FOR ANY PURPOSE WHATSOEVER, WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.



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			MULCH - REFER TO SPECIFICATIONS			
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0' 10' 20' 40' 60'

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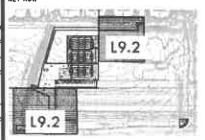
REGISTERED LANDSCAPE ARCHITECT
MARK S. BARNES
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP



SHEET TITLE
PLANTING PLAN

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2
75% SUBMITTAL	10/1
100% SUBMITTAL	12/20/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
AL	CS
DATE ISSUED	SCALE
05/20/2022	1"=20'-0"
PROJ. NO.	2014500
SHEET NO.	L9.2 OF CHEETS

PLANTING PLAN

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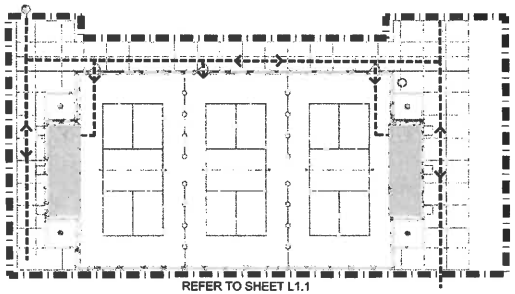
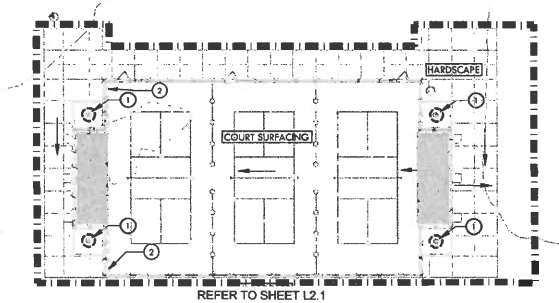
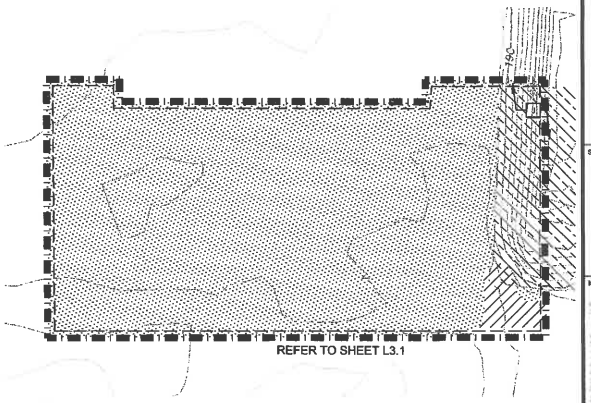
ALTERNATE 2: ACCESSIBILITY PLAN



ALTERNATE 2: EROSION CONTROL PLAN



ALTERNATE 2: DEMOLITION PLAN



ACCESSIBILITY LEGEND

SYM	DESCRIPTION
	PROJECT LIMIT OF WORK
	ADA ACCESSIBLE PATH OF TRAVEL (4 FT. MIN. WIDTH @ 5=5% MAX.)
>	ADA ACCESSIBLE POINT OF ENTRY

ACCESSIBILITY NOTES

1. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING ½" BEVELED AT 1:2 MAX. SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING ½" MAX. AND A LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.
2. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
3. ACCESSIBLE PARKING
   SIGNAGE REQUIREMENTS: THE AMENDED REGULATIONS INDICATE THAT THE SIGNAGE AT ACCESSIBLE PARKING SPACES SHALL INCLUDE "MINIMUM FINE $250" BELOW THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AS EITHER AN ADDITIONAL SIGN OR ADDITIONAL LANGUAGE. THIS FINE POSTING REQUIREMENT IS IN ADDITION TO OTHER SIGNAGE REGULATIONS CONTAINED IN THE CALIFORNIA BUILDING CODE FOR ACCESSIBLE PARKING SPACES.
4. STRIPING REQUIREMENTS:
   THE REVISED REGULATIONS INDICATE THAT THE ACCESSIBLE PARKING SPACE STRIPING SHALL BE AS FOLLOWS: THE BORDER (PERIMETER) SHALL BE PAINTED BLUE. THE HATCHING WITHIN THE LOADING AND UNLOADING ACCESS AISLE SHALL BE PAINTED A SUITABLE CONTRASTING COLOR TO THE PARKING SPACE AT 3'-0" MAXIMUM ON CENTER. BLUE OR WHITE PAINT IS PREFERRED.

NORTH
0' 10' 20' 40' 60'

EROSION CONTROL LEGEND

SYM	DESCRIPTION	DTL REF
	LIMIT OF WORK	
1	STORM DRAIN INLET PROTECTION. CONTRACTOR TO PROVIDE APPLICABLE PROTECTION METHOD AT EACH NOTED DRAIN INLET PER THE CITY OF ROSEVILLE STANDARDS.	B 1,2,3
	FIBER ROLL BARRIER, INSTALLED AT BACK OF CURB DURING CONSTRUCTION. CONTRACTOR TO ADJUST FILTER ROLL BARRIER ONCE CONCRETE SIDEWALKS HAVE BEEN CONSTRUCTED.	A 1,2,3
	DIRECTION OF SURFACE FLOW	
2	ADD TRENCH DRAIN CHANNEL PROTECTION ONCE INSTALLED UNTIL GRADE ESTABLISHMENT AND COVERAGE IS COMPLETE.	

EROSION CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED DURING THE FIRST WEEK OF CONSTRUCTION.
2. EROSION AND SEDIMENT CONTROL SHALL REMAIN THROUGHOUT CONSTRUCTION AND BE REMOVED AND DISPOSED OF DURING MAINTENANCE PERIOD.
3. EROSION AND SEDIMENT CONTROL MAY BE ADJUSTED THROUGH CONSTRUCTION WITH APPROVAL OR AS DIRECTED BY CITY'S REPRESENTATIVE.
4. CONTRACTOR SHALL SWEEP STREETS AND PARKING AREAS AFFECTED BY CONSTRUCTION WITH STREET SWEEPER AS REQUIRED TO KEEP PAVING CLEAN OF CONSTRUCTION DEBRIS.
5. REFER TO SHEET C0.0 FOR THE CITY OF ROSEVILLE'S PUBLIC IMPROVEMENTS EROSION AND SEDIMENT CONTROL NOTES.
6. THE SWPPP SHALL BE IMPLEMENTED AND MONITORED BY THE CONTRACTOR AND SHALL BE A "LIVING DOCUMENT" REFLECTING THE STATUS OF CONSTRUCTION WORK AS IT PROGRESSES.

NORTH
0' 10' 20' 40' 60'

DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE DEVELOPER TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY.
3. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE DEVELOPER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE CITY'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT. NOTIFY THE CITY'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE CITY'S REPRESENTATIVE.
6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREA LIMIT OF WORK. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). SHALL INCLUDE FULL HEIGHT GREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK SHALL BE SUBJECT TO THE DISCRETION OF THE CITY'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIPLINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE CITY'S REPRESENTATIVE.
8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM FOR PLANT MATERIAL THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE CITY'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

DEMOLITION LEGEND

SYM	DESCRIPTION
	LIMIT OF WORK / CONSTRUCTION FENCING
	EXISTING SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. EXISTING TOP SOIL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER. REFER TO SPECIFICATIONS FOR INFORMATION. REMOVE EXCESS SOIL FROM SITE.
	SHRUBS AND VEGETATION TO BE DEMOLISHED AND REMOVED. CLEAR AND GRUB AREA WHEN SHRUBS AND VEGETATION HAVE BEEN REMOVED.
	SOIL TO REMAIN ON SITE AND BE REMOVED TO OUT OF LIMIT OF WORK PRIOR TO START OF CONSTRUCTION. PLACEMENT TO BE DESIGNATED BY CITY.
	LIMIT OF CLEAR AND GRUB

DEMOLITION ITEMS

ITEMS TO BE PROTECTED OR RELOCATED

1	SOIL TO REMAIN ON SITE AND IS TO BE MOVED OUT OF THE LIMIT OF WORK AREA PRIOR TO START OF CONSTRUCTION. PLACEMENT TO BE DESIGNATED BY CITY

NORTH
0' 10' 20' 40' 60'

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MIKE S. BADKIN
No. 4089
Signature
EXPIRATION DATE: JULY 2023
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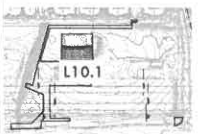
KEY MAP



SHEET TITLE

ADD ALTERNATE 2 SHEET

PROJECT NAME

GIBSON PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/24/21
75% SUBMITTAL	01/17/22
100% SUBMITTAL	05/20/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
VDI	CS
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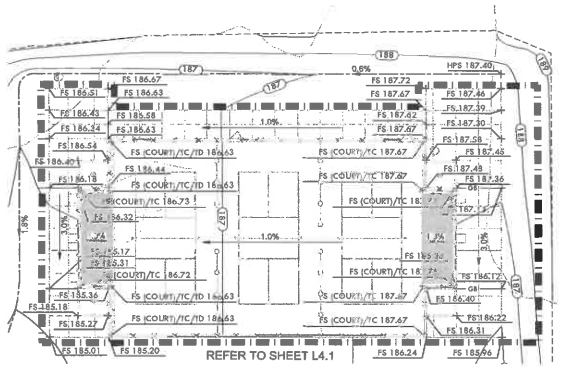
05/20/2022	1"=20'-0"

PROJ. NO. 2014500

SHEET NO. L10.1 OF SHEETS

ADD ALTERNATE 2 SHEET

ALTERNATE 2: GRADING PLAN



GRADING LEGEND

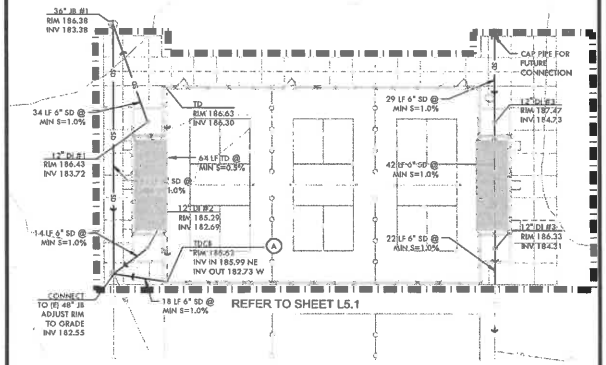
SYM	DESCRIPTION
85	PROPOSED CONTOUR
FS 32.00	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE
RIM 31.00	LOW POINT/ RIM ELEVATION OF DRAIN
TC 32.50	TOP OF CURB
TD 32.50	TRENCH DRAIN
	EXISTING CONTOUR
	EXISTING ELEVATION

GRADING NOTES

1. EXISTING GRADES ARE BASED ON INFORMATION PROVIDED BY: KIER & WRIGHT. CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE START OF GRADING, NOTIFY THE CITY'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE CITY'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINDS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
3. PROPOSED GRADES SHALL MEET EXISTING GRADES WITH A SMOOTH AND CONTINUOUS TRANSITION SO AS TO AVOID TRAPPING WATER. CONTRACTOR SHALL NOTIFY CITY'S REPRESENTATIVE IF PUDDLING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE AWAITING RESPONSE.
4. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

NORTH
0' 10' 20' 40' 60'

ALTERNATE 2: DRAINAGE PLAN



DRAINAGE LEGEND

SYM	DESCRIPTION	DETAIL NUMBER / SHEET NUMBER
	CATCH BASIN, (CB) SIZE PER PLAN	A / D1.1
	JUNCTION BOX (JB), SIZE PER PLAN	A / D1.1
	TRENCH DRAIN	B / D1.1
	SOLID WALL STORM DRAIN	D / D1.1
A	TRENCH DRAIN CATCH BASIN AND CONNECTION TO STORM DRAIN LINE	C / D1.1

DRAINAGE NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE CITY REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
2. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.
3. THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
4. COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
5. THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
6. ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SUBGRADING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
7. PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POTHOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED.
8. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.

NORTH
0' 10' 20' 40' 60'

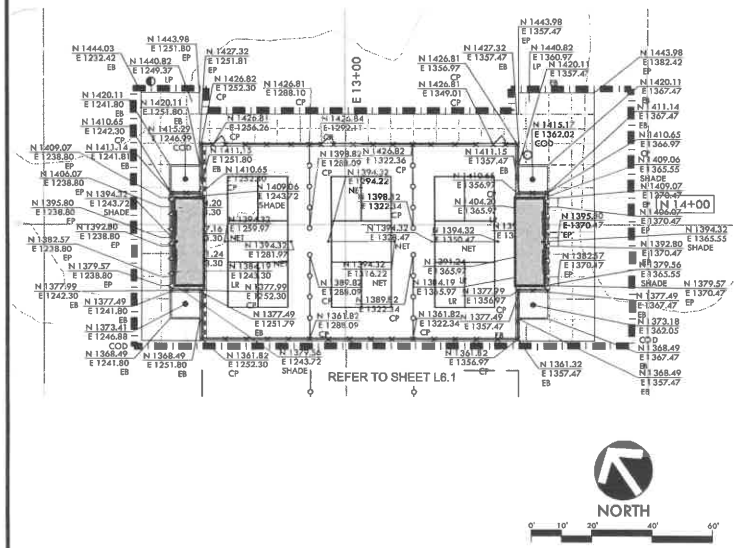
ALTERNATE 2: LAYOUT PLAN

LAYOUT NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE CITY'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. ALL DIMENSIONS SHALL BE VERIFIED IN FIELD AND CHALKED, STRING LINED OR FLAGGED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MINOR ADJUSTMENTS MADE TO ACHIEVE OVERALL DESIGN LAYOUT SHALL BE ACCEPTED BY THE CITY PRIOR TO CONSTRUCTION.
3. LAYOUT IS BASED ON THE POINT(S) OF BEGINNING (P.O.B.) AND BASELINE(S) OR GRID SYSTEM AS SHOWN. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.
4. ALL LAYOUT AND GRADES SHALL BE COMPLETED BY A LICENSED SURVEYOR.

LAYOUT LEGEND

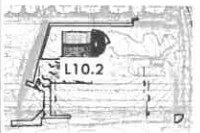
SYM	DESCRIPTION
POB	POINT OF BEGINNING
	ANCHOR POINT FOR BASELINE A
R10'	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X'	DISTANCE BETWEEN ELEMENTS
	CENTER LINES
	BASELINE
	CONTROL LINE
N 6+21.95 E 4+97.28	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
COD	CENTER OF DRAIN
CP	CENTER OF POST
POB	POINT OF BEGINNING FOR GRID LAYOUT
RAD	RADIUS POINT
TAN	TANGENT POINT
EP	EDGE OF PAVEMENT
SHADE	CENTER OF SHADE STRUCTURE FOOTING
LR	LEANING RAIL
NET	CENTER OF PICKLE BALL NET POST
LP	CENTER OF LIGHT POST



NORTH
0' 10' 20' 40' 60'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1863 Iron Point Rd. Suite 140
Folsom, CA 95630
tele 916.415.6054
fax. 916.415.6825
www.VerdeDesigninc.com

STAMP
REGISTERED LANDSCAPE ARCHITECT
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP


SHEET TITLE
ALTERNATE SHEET

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/24/21
75% SUBMITTAL	01/17/22
100% SUBMITTAL	05/20/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
VDI	CS
DATE ISSUED	SCALE
05/20/2022	1"=20'-0"

PROJ. NO.
2014500

SHEET NO.
L10.2 OF SHEETS

ALTERNATE SHEET

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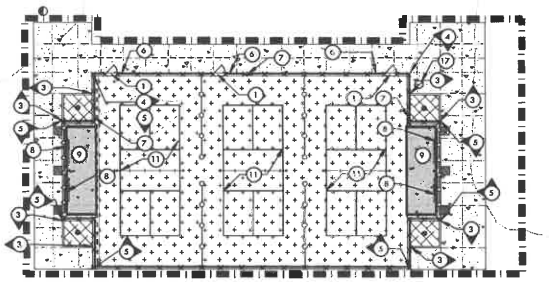
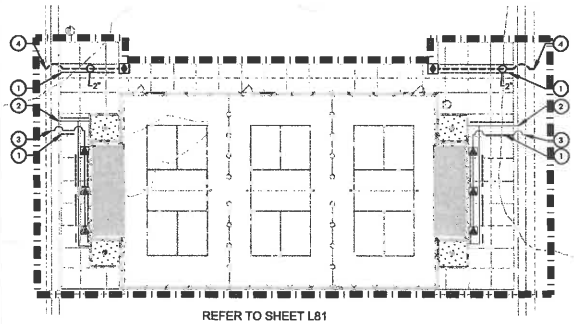
ALTERNATE: MATERIAL PLAN



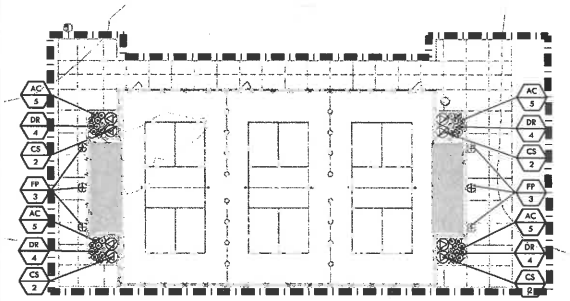
REFER TO SHEET L7.1

ALTERNATE: IRRIGATION PLAN



REFER TO SHEET L81

ALTERNATE: PLANTING PLAN



REFER TO SHEET L9.1

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
	CONCRETE PAVING - PEDESTRIAN	A D2.1
	PICKLE BALL COURT SURFACING	C D5.1
	DOWELED COLD JOINT SCORE JOINT	B D2.1
	TRENCH DRAIN	B D1.1
	48" TALL CHAIN LINK FENCE	C D4.1
	10' TALL CHAIN LINK FENCE WITH WINDSCREEN	E D4.1
	TRELLIS	J D4.1
	PLANT WELL	D D7.1
1	8' TALL X 4' WIDE GATE WITH TRANSOM	F D4.1
3	6" WIDE TALL CURB	B D2.1
4	12" WIDE EDGEBAND WITH FENCE	F D2.1
5	12" WIDE TALL CURB WITH FENCE	H D2.1
6	COURT SIGN	D D5.1
7	PADDLE RACK	F D5.1
8	LEANING RAIL	E D5.1
9	SHADE STRUCTURE - REFER TO SHEETS SS1.1 - SS1.5	
11	PICKLE BALL COURT	A D5.1
13	COURT LIGHTING - REFER TO ELECTRICAL PLANS	

NORTH
0' 10' 20' 40' 60'

IRRIGATION LEGEND

SYM.	ITEM	MANUFACTURE MODEL NO./DESCR.	RAD./ DES	GPM	PSI	DTL REF
	BUBBLER	RAIN BIRD 1804-PRS WITH 1402 SERIES BUBBLER	1'	0.50	40	E D6.2
		RAINBIRD XFS SUB-SURFACE DRIPLINE XFS-09-18 WITH .6 GPH AND 18" SPACING FOR EMITTERS; TUBING IS TO BE LAID DOWN WITH 18" O.C. SPACING. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS, DETAILS, AND SPECIFICATIONS. EACH PLANTER TO INCLUDE A LINE FLUSHING VALVE AND DRIP INDICATOR PER SPECIFICATIONS.				F/G D6.7
	QUICK COUPLING VALVE	RAIN BIRD 44-LRC: 1", 2-PIECE BODY WITH 44-K KEY AND SH-1 HOSE SWIVEL. INSTALLED IN HARDSCAPE AREA. CONTRACTOR TO ALIGN QUICK COUPLER VALVE BOX ADJACENT TO FENCE EDGEBAND.				B D6.2
	LATERAL LINE	3/4" LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.				
	MAIN LINE	MAIN LINE 2-1/2" AND SMALLER - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS AT 24" DEPTH. MAIN LINE 3" AND LARGER - CLASS 200 PVC PIPE RUBBER GASKETED PIPE AT 24" DEPTH. MAIN LINE SHOWN IN HARDSCAPE FOR PLAN CLARITY. CONTRACTOR SHALL INSTALL MAIN LINE IN ADJACENT PLANTER AREA.				A D6.7 D6.1
	SLEEVES	PIPE AT PAVEMENTS (SLEEVES) SHALL BE SCHEDULE 40 PVC. SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.				
1	CONTRACTOR TO INSTALL SLEEVES AND RUN IRRIGATION LATERAL LINES THROUGH SLEEVE.					
2	CONTRACTOR TO CONNECT LATERAL LINE TO BASE BID DRIP IRRIGATION SYSTEM AT LANDSCAPE SHRUBS AND GROUNDCOVER.					
3	CONTRACTOR TO CONNECT LATERAL LINE TO BASE BID BUBBLER IRRIGATION SYSTEM AT VINE PLANTERS.					
4	CONTRACTOR TO CONNECT ADDITIVE ALTERNATE MAIN LINE TO BASE BID MAIN LINE.					

NORTH
0' 10' 20' 40' 60'

PLANTING LEGEND

SYM	QTY	SIZE	BOTANICAL/COMMON NAME	SPACING	WATER USE REQUIREMENTS PER WUCOLS REGION 2 - CENTRAL VALLEY	DTL REF
ACCENT PLANTS/GROUNDCOVER						
AC	20	1 GAL	APTENIA CORDIFOLIA 'VARIEGATA' VARIEGATED BABY SUN ROSE	24" O.C.	LOW	
DR	16	1 GAL	DIANELLA REVOLUTA 'LITTLE REV' LITTLE REV FLAX LILY	24" O.C.	LOW	
FP	6	1 GAL	FICUS PUMILA CREEPING FIG	PER PLAN	MED	
MEDIUM PLANTING						
CS	8	1 GAL	JUSTICIA SPICIGERA MEXICAN HONEYSUCKLE	48" O.C.	LOW	

NORTH
0' 10' 20' 40' 60'

MATERIAL NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE CITY'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. THE INTERFACE OF ALL PROPOSED IMPROVEMENTS TO EXISTING SITE SHALL CONFORM AND BE SMOOTH AND UNIFORM.
3. ALL REINFORCING AND FORMS SHALL BE SECURED IN PLACE AND ACCEPTED BY CITY'S REPRESENTATIVE PRIOR TO PLACING ANY CONCRETE.
4. CONCRETE FINISHES SHALL BE AS NOTED. CONTRACTOR SHALL PROVIDE 4'X4' SAMPLES OF ALL SPECIFIED FINISHES OF CONCRETE USING THE SAME MATERIALS THAT WILL BE USED IN THE ACTUAL CONSTRUCTION FOR EACH TYPE SPECIFIED. SAMPLES SHALL BE PREPARED WELL ENOUGH IN ADVANCE OF SCHEDULED CONCRETE POUR TO ALLOW FOR REVIEW AND POSSIBLE RE-POURING OF UNACCEPTABLE SAMPLES. UNACCEPTABLE SAMPLES SHALL BE RE-PREPARED UNTIL ACCEPTED BY THE CITY'S REPRESENTATIVE. ACCEPTED SAMPLES SHALL BE PROTECTED AND REMAIN ON SITE FOR REFERENCE UNTIL FINAL ACCEPTANCE.
5. ALL FENCES AND GATES SHOWN ON PLAN ARE GRAPHIC REPRESENTATIONS; REFER TO DETAILS AND SPECIFICATIONS FOR PRECISE LOCATION.
6. ASPHALT SHALL NOT BE INSTALLED UNTIL ALL EDGES AND SITE FURNISHING PADS ARE INSTALLED.

IRRIGATION NOTES

1. THE SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF 50 GPM WITH A MINIMUM 45 STATIC PSI AT THE EMITTER. CONTRACTOR SHALL VERIFY A STATIC PRESSURE OF 85 PSI AT THE TAP PRIOR TO BEGINNING WORK. CONTACT CITY'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAY.
2. ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES AND ORDINANCES. ALL IRRIGATION WORK SHALL CONFORM TO THE LANDSCAPE SECTION OF THE STANDARD PLAN DETAILS FOR PUBLIC WORKS CONSTRUCTION. PROJECT DETAILS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER STANDARD PLAN DETAILS.
3. ALL PLASTIC FITTINGS SHALL BE A MINIMUM OF 18" APART TO FACILITATE REMOVAL AND REPLACEMENT OF INDIVIDUAL FITTINGS. TRENCHING DEPTHS OF POTABLE WATER MAIN SHALL BE 24". ALL MAINS, LATERALS AND CONTROL WIRES SHALL BE INSTALLED IN SCHEDULE 40 P.V.C. SLEEVES (OF APPROPRIATE SIZE) UNDER ALL A.C. AND P.C.C. PAVEMENT.
4. IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE PLANTERS, OR LIMIT OF WORK; INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN PLANTER AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS.
5. CONTRACTOR SHALL ADJUST IRRIGATION HEADS FOR HEAD-TO-HEAD COVERAGE WHILE REDUCING OVER SPRAY ONTO WALKWAYS AND ADJACENT STRUCTURES. VALVES SHALL BE ADJUSTED TO AVOID MISTING AS APPLICABLE. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY ONLY WITH THE APPROVAL OF THE CITY ENGINEER.
6. CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. IRRIGATION LATERAL LINE JOINTS, TEE AND ELBOWS SHALL NOT BE PACED UNDER CONCRETE PAVING.

PLANTING NOTES

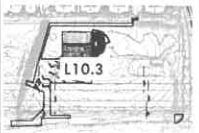
1. PLANT COUNTS SHOWN ARE FOR BIDDING REFERENCE ONLY. CONTRACTOR SHALL SUPPLY ALL PLANTS REQUIRED TO FULFILL DESIGN INTENT AS SHOWN.
2. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL PLANT MATERIAL FROM TIME OF DELIVERY TO TIME OF FINAL ACCEPTANCE. DEVELOPER SHALL NOT BE RESPONSIBLE FOR LOSSES DUE TO VANDALISM, THEFT OR SEVERE WEATHER.
3. CONTRACTOR SHALL PLACE PLANT MATERIALS SO THEY DO NOT INTERFERE WITH IRRIGATION SYSTEM OR INHIBIT REQUIRED COVERAGE. PLANT LOCATIONS MAY BE ADJUSTED AS LONG AS DESIGN INTENT IS NOT COMPROMISED. CONTRACTOR SHALL SET OUT PLANT MATERIAL AS PER PLAN AND RECEIVE ACCEPTANCE FROM DEVELOPER'S REPRESENTATIVE WITH RESPECT TO PLANT HEALTH AND LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL GIVE MINIMUM 2 WORKING DAYS NOTICE FOR OBSERVATION AND SHALL HAVE ALL PLANT MATERIAL IN SPECIFIED LOCATIONS FOR REVIEW AT ONE TIME. CONTRACTOR SHALL REPLACE ANY MATERIAL AS REQUESTED BY DEVELOPER'S REPRESENTATIVE.
4. ALL NON-TURF PLANTING AREAS SHALL RECEIVE A 3" LAYER OF BARK MULCH TOP DRESS (UNLESS NOTED OTHERWISE). REFER TO SPECIFICATIONS.
5. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.
6. PER WELO 1.1.B.050 B 4. F. (iii.) FOR LANDSCAPE INSTALLATIONS, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO THE SOIL. SOILS WITH GREATER THAN 6% ORGANIC MATTER IN THE TOP 6 INCHES OF SOIL ARE EXEMPT FROM ADDING COMPOST AND TILLING. REFER TO SOILS ANALYSIS REPORT FOR ADDITIONAL INFORMATION.

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1643 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.8854
fax: 916.415.8525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK E. BRAMBEY
No. 4089
Signature
EXPIRATION DATE: JULY 2022
STATE OF CALIFORNIA

KEY MAP



SHEET TITLE
ALTERNATE SHEET

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/24/21
75% SUBMITTAL	01/17/22
100% SUBMITTAL	05/20/22

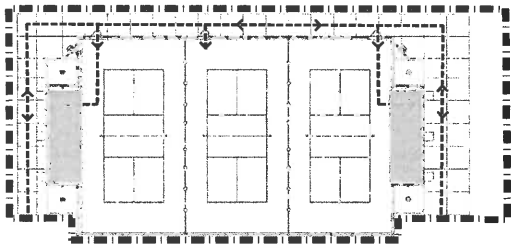
NO.	REVISIONS	DATE

DRAWN BY: VDI
CHECKED BY: CS
DATE ISSUED: 05/20/2022
SCALE: 1"=20'-0"
PROJ. NO.: 2014500
SHEET NO.: L11.3 OF SHEETS

ALTERNATE SHEET

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION WITHOUT WRITTEN AUTHORIZATION FROM VERDE DESIGN, INC.

ALTERNATE 3: ACCESSIBILITY PLAN



REFER TO SHEET L1.1

ACCESSIBILITY LEGEND

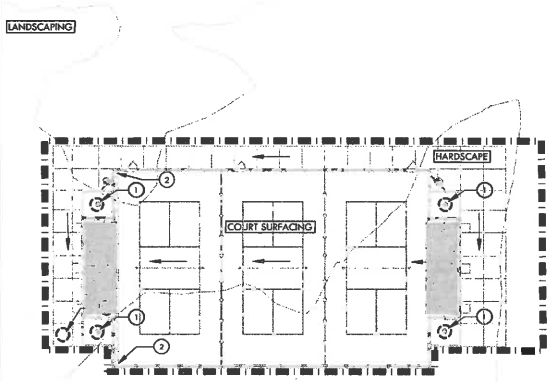
SYM	DESCRIPTION
	PROJECT LIMIT OF WORK
	ADA ACCESSIBLE PATH OF TRAVEL (4 FT. MIN. WIDTH @ S=5% MAX.)
>	ADA ACCESSIBLE POINT OF ENTRY

ACCESSIBILITY NOTES

1. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING ½" BEVELED AT 1:2 MAX. SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING ¼" MAX. AND A LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.
2. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
3. ACCESSIBLE PARKING
   SIGNAGE REQUIREMENTS: THE AMENDED REGULATIONS INDICATE THAT THE SIGNAGE AT ACCESSIBLE PARKING SPACES SHALL INCLUDE "MINIMUM FINE $250" BELOW THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AS EITHER AN ADDITIONAL SIGN OR ADDITIONAL LANGUAGE. THIS FINE POSTING REQUIREMENT IS IN ADDITION TO OTHER SIGNAGE REGULATIONS CONTAINED IN THE CALIFORNIA BUILDING CODE FOR ACCESSIBLE PARKING SPACES.
4. STRIPING REQUIREMENTS
   THE REVISED REGULATIONS INDICATE THAT THE ACCESSIBLE PARKING SPACE STRIPING SHALL BE AS FOLLOWS: THE BORDER (PERIMETER) SHALL BE PAINTED BLUE. THE HATCHING WITHIN THE LOADING AND UNLOADING ACCESS AISLE SHALL BE PAINTED A SUITABLE CONTRASTING COLOR TO THE PARKING SPACE AT 3'-0" MAXIMUM ON CENTER. BLUE OR WHITE PAINT IS PREFERRED.

NORTH
0' 10' 20' 40' 60'

ALTERNATE 3: EROSION CONTROL PLAN



REFER TO SHEET L2.1

EROSION CONTROL LEGEND

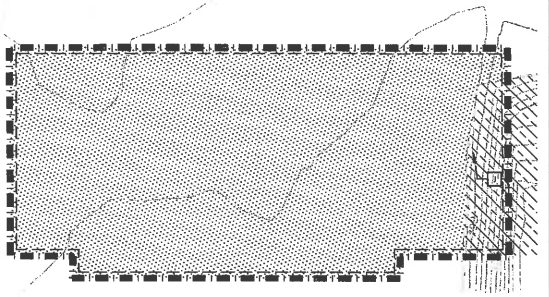
SYM	DESCRIPTION	DTL REF
	LIMIT OF WORK	
1 CB	STORM DRAIN INLET PROTECTION. CONTRACTOR TO PROVIDE APPLICABLE PROTECTION METHOD AT EACH NOTED DRAIN INLET PER THE CITY OF ROSEVILLE STANDARDS.	A 12/3
	FIBER ROLL BARRIER, INSTALLED AT BACK OF CURB DURING CONSTRUCTION. CONTRACTOR TO ADJUST FILTER ROLL BARRIER ONCE CONCRETE SIDEWALKS HAVE BEEN CONSTRUCTED.	A 12/3
	DIRECTION OF SURFACE FLOW	
2	ADD TRENCH DRAIN CHANNEL PROTECTION ONCE INSTALLED UNTIL GRADE ESTABLISHMENT AND COVERAGE IS COMPLETE.	

EROSION CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED DURING THE FIRST WEEK OF CONSTRUCTION.
2. EROSION AND SEDIMENT CONTROL SHALL REMAIN THROUGHOUT CONSTRUCTION AND BE REMOVED AND DISPOSED OF DURING MAINTENANCE PERIOD.
3. EROSION AND SEDIMENT CONTROL MAY BE ADJUSTED THROUGH CONSTRUCTION WITH APPROVAL OR AS DIRECTED BY CITY'S REPRESENTATIVE.
4. CONTRACTOR SHALL SWEEP STREETS AND PARKING AREAS AFFECTED BY CONSTRUCTION WITH STREET SWEEPER AS REQUIRED TO KEEP PAVING CLEAN OF CONSTRUCTION DEBRIS.
5. REFER TO SHEET C0.0 FOR THE CITY OF ROSEVILLE'S PUBLIC IMPROVEMENTS EROSION AND SEDIMENT CONTROL NOTES.
6. THE SWPPP SHALL BE IMPLEMENTED AND MONITORED BY THE CONTRACTOR AND SHALL BE A "LIVING DOCUMENT" REFLECTING THE STATUS OF CONSTRUCTION WORK AS IT PROGRESSES.

NORTH
0' 10' 20' 40' 60'

ALTERNATE 3: DEMOLITION PLAN



REFER TO SHEET L3.1

DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE DEVELOPER TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY.
3. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE DEVELOPER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE CITY'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT. NOTIFY THE CITY'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE CITY'S REPRESENTATIVE.
6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREA LIMIT OF WORK. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). SHALL INCLUDE FULL HEIGHT GREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK SHALL BE SUBJECT TO THE DISCRETION OF THE CITY'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIPLINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE CITY'S REPRESENTATIVE.
8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM. FOR PLANT MATERIAL THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE CITY'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

DEMOLITION LEGEND

SYM	DESCRIPTION
	LIMIT OF WORK / CONSTRUCTION FENCING
	EXISTING SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. EXISTING TOP SOIL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER. REFER TO SPECIFICATIONS FOR INFORMATION. REMOVE EXCESS SOIL FROM SITE.
	SHRUBS AND VEGETATION TO BE DEMOLISHED AND REMOVED. CLEAR AND GRUB AREA WHEN SHRUBS AND VEGETATION HAVE BEEN REMOVED.
	SOIL TO REMAIN ON SITE AND BE REMOVED TO OUT OF LIMIT OF WORK PRIOR TO START OF CONSTRUCTION. PLACEMENT TO BE DESIGNATED BY CITY.
	LIMIT OF CLEAR AND GRUB

DEMOLITION ITEMS

ITEMS TO BE PROTECTED OR RELOCATED

1	SOIL TO REMAIN ON SITE AND IS TO BE MOVED OUT OF THE LIMIT OF WORK AREA PRIOR TO START OF CONSTRUCTION. PLACEMENT TO BE DESIGNATED BY CITY

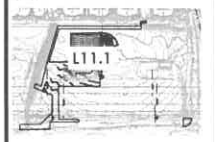
NORTH
0' 10' 20' 40' 60'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.8554
fax: 916.415.8525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
WERK S. BRAUNER
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP



SHEET TITLE
ALTERNATE SHEET

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/24/21
75% SUBMITTAL	01/17/22
100% SUBMITTAL	05/20/22

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
VDI	CS
DATE ISSUED	SCALE
05/20/2022	1"=20'-0"

PROJ. NO.
2014500

SHEET NO.
L11.1 OF SHEETS
ALTERNATE SHEET

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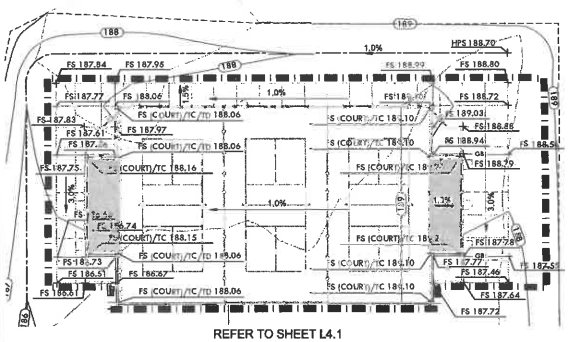
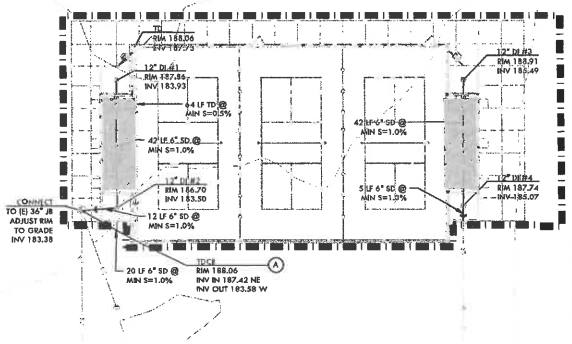
ALTERNATE 3: GRADING PLAN



REFER TO SHEET L4.1

ALTERNATE 3: DRAINAGE PLAN



REFER TO SHEET L5.1

ALTERNATE 3: LAYOUT PLAN

LAYOUT NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE CITY'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. ALL DIMENSIONS SHALL BE VERIFIED IN FIELD AND CHALKED, STRING LINED OR FLAGGED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MINOR ADJUSTMENTS MADE TO ACHIEVE OVERALL DESIGN LAYOUT SHALL BE ACCEPTED BY THE CITY PRIOR TO CONSTRUCTION.
3. LAYOUT IS BASED ON THE POINT(S) OF BEGINNING (P.O.B.) AND BASELINE(S) OR GRID SYSTEM AS SHOWN. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.
4. ALL LAYOUT AND GRADES SHALL BE COMPLETED BY A LICENSED SURVEYOR.

LAYOUT LEGEND

SYM	DESCRIPTION
POB	POINT OF BEGINNING
	ANCHOR POINT FOR BASELINE A
R10'	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X'	DISTANCE BETWEEN ELEMENTS
	CENTER LINES
	BASELINE
	CONTROL LINE
N 6+21.95 E 4+97.08	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
COD	CENTER OF DRAIN
CP	CENTER OF POST
POB	POINT OF BEGINNING FOR GRID LAYOUT
RAD	RADIUS POINT
TAN	TANGENT POINT
EP	EDGE OF PAVEMENT
SHADE	CENTER OF SHADE STRUCTURE FOOTING
LR	LEANING RAIL
NET	CENTER OF PICKLE BALL NET POST
LP	CENTER OF LIGHT POST

GRADING LEGEND

SYM	DESCRIPTION
85	PROPOSED CONTOUR
FS 32.00	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE
RIM 31.00	LOW POINT/ RIM ELEVATION OF DRAIN
TC 32.50	TOP OF CURB
TD 32.50	TRENCH DRAIN
	EXISTING CONTOUR
+ 100.5	EXISTING ELEVATION

GRADING NOTES

1. EXISTING GRADES ARE BASED ON INFORMATION PROVIDED BY _____. CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE START OF GRADING, NOTIFY THE CITY'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE CITY REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
3. PROPOSED GRADES SHALL MEET EXISTING GRADES WITH A SMOOTH AND CONTINUOUS TRANSITION SO AS TO AVOID TRAPPING WATER. CONTRACTOR SHALL NOTIFY CITY'S REPRESENTATIVE IF PUDDLING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE AWAITING RESPONSE.
4. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

DRAINAGE LEGEND

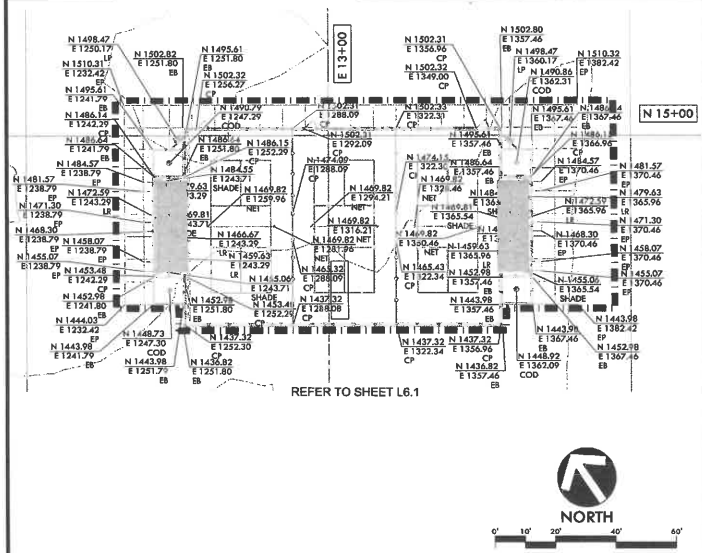
SYM	DESCRIPTION	DETAIL NUMBER / SHEET NUMBER
	CATCH BASIN, (CB) SIZE PER PLAN	A / D1.1
	JUNCTION BOX (JB), SIZE PER PLAN	A / D1.1
	TRENCH DRAIN	B / D1.1
	SOLID WALL STORM DRAIN	D / D1.1
A	TRENCH DRAIN CATCH BASIN AND CONNECTION TO STORM DRAIN LINE	C / D1.1

DRAINAGE NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE CITY REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
2. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.
3. THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
4. COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
5. THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
6. ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SUBGRADING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
7. PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POTHOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED.
8. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.







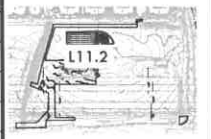
REFER TO SHEET L6.1

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6854
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK C. ENGLISH
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP



SHEET TITLE

ALTERNATE SHEET

PROJECT NAME

GIBSON PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/24/21
75% SUBMITTAL	01/17/22
100% SUBMITTAL	05/20/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
VDI	CS
DATE ISSUED	SCALE
05/20/2022	1"=20'-0"

PROJ. NO.
2014500

SHEET NO.
L11.2 OF SHEETS

ALTERNATE SHEET

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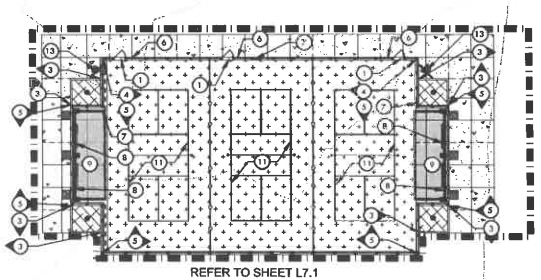
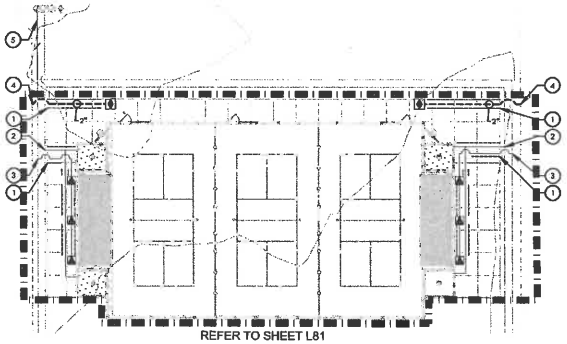
ALTERNATE 3: MATERIAL PLAN



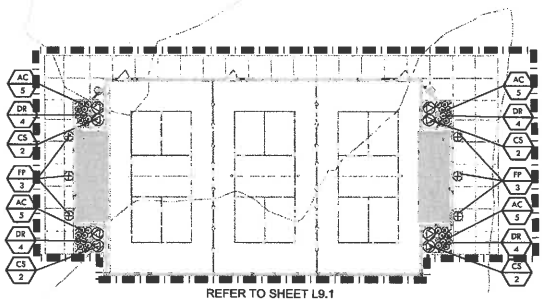
REFER TO SHEET L7.1

ALTERNATE 3: IRRIGATION PLAN



REFER TO SHEET L81

ALTERNATE 3: PLANTING PLAN



REFER TO SHEET L9.1

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
	CONCRETE PAVING - PEDESTRIAN	A D2.1
	PICKLE BALL COURT SURFACING	C D5.1
	DOWELED COLD JOINT SCORE JOINT	B D2.1
	TRENCH DRAIN	B D1.1
	48" TALL CHAIN LINK FENCE	C D4.1
	10' TALL CHAIN LINK FENCE WITH WINDSCREEN	E D4.1
	TRELLIS	I D4.1
	PLANT WELL	D D7.1
1	8' TALL X 4' WIDE GATE WITH TRANSOM	F D4.1
3	6" WIDE TALL CURB	E D2.1
4	12" WIDE EDGEBAND WITH FENCE	F D2.1
5	12" WIDE TALL CURB WITH FENCE	H D2.1
6	COURT SIGN	D D5.1
7	PADDLE RACK	F D5.1
8	LEANING RAIL	E D5.1
9	SHADE STRUCTURE - REFER TO SHEETS SS1.1 - SS1.5	
11	PICKLE BALL COURT	A D5.1
13	COURT LIGHTING - REFER TO ELECTRICAL PLANS	



IRRIGATION LEGEND

SYM.	ITEM	MANUFACTURE MODEL NO./DESCR.	RAD./ DES	GPM	PSI	DTL REF
	BUBBLER	RAIN BIRD 1804-PRS WITH 1402 SERIES BUBBLER	1'	0.50	40	E D6.2
		RAINBIRD XFS SUB-SURFACE DRIPLINE XFS-09-18 WITH .6 GPH AND 18" SPACING FOR EMITTERS, TUBING IS TO BE LAID DOWN WITH 18" O.C. SPACING. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS, DETAILS, AND SPECIFICATIONS. EACH PLANTER TO INCLUDE A LINE FLUSHING VALVE AND DRIP INDICATOR PER SPECIFICATIONS.				F/G D6.2
	QUICK COUPLING VALVE	RAIN BIRD 44-LRC 1", 2-PIECE BODY WITH 44-K KEY AND SH-1 HOSE SWIVEL. INSTALLED IN HARDSCAPE AREA. CONTRACTOR TO ALIGN QUICK COUPLER VALVE BOX ADJACENT TO FENCE EDGEBAND.				D D6.2
	LATERAL LINE	3/4" LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.				
	LATERAL LINE	1" LATERAL LINE - SCHEDULE 40 PURPLE PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.				
	MAIN LINE	MAIN LINE 2-1/2" AND SMALLER - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS AT 24" DEPTH. MAIN LINE 3" AND LARGER - CLASS 200 PVC PIPE RUBBER GASKETED PIPE AT 24" DEPTH. MAIN LINE SHOWN IN HARDSCAPE FOR PLAN CLARITY. CONTRACTOR SHALL INSTALL MAIN LINE IN ADJACENT PLANTER AREA.				C,D,H D6.1
	SLEEVES	PIPE AT PAVEMENTS (SLEEVES) SHALL BE SCHEDULE 40 PVC. SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.				
1	CONTRACTOR TO INSTALL SLEEVES AND RUN IRRIGATION LATERAL LINES THROUGH SLEEVE.					
2	CONTRACTOR TO CONNECT LATERAL LINE TO BASE BID DRIP IRRIGATION SYSTEM AT LANDSCAPE SHRUBS AND GROUNDCOVER.					
3	CONTRACTOR TO CONNECT LATERAL LINE TO BASE BID BUBBLER IRRIGATION SYSTEM AT VINE PLANTERS.					
4	CONTRACTOR TO CONNECT ADDITIVE ALTERNATE MAIN LINE TO BASE BID MAIN LINE.					
5	CONTRACTOR TO INSTALL 1" LATERAL LINE IN PLACE OF 3/4" LINE AS SHOWN THE PLANS.					



PLANTING LEGEND

SYM	QTY	SIZE	BOTANICAL/COMMON NAME	SPACING	WATER USE REQUIREMENTS PER WUCOLS REGION 2 - CENTRAL VALLEY	DTL REF
ACCENT PLANTS/GROUNDCOVER						
AC	20	1 GAL	APTENIA CORDIFOLIA 'VARIEGATA' VARIEGATED BABY SUN ROSE	24" O.C.	LOW	
DR	16	1 GAL	DIANELLA REVOLUTA 'LITTLE REV' LITTLE REV FLAX LILY	24" O.C.	LOW	
FP	6	1 GAL	FICUS PUMILA CREEPING FIG	PER PLAN	MED	
MEDIUM PLANTING						
CS	8	1 GAL	CISTUS X SKANBERGII DWARF PINK ROCKROSE	48" O.C.	LOW	



MATERIAL NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE CITY'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. THE INTERFACE OF ALL PROPOSED IMPROVEMENTS TO EXISTING SITE SHALL CONFORM AND BE SMOOTH AND UNIFORM.
3. ALL REINFORCING AND FORMS SHALL BE SECURED IN PLACE AND ACCEPTED BY CITY'S REPRESENTATIVE PRIOR TO PLACING ANY CONCRETE.
4. CONCRETE FINISHES SHALL BE AS NOTED. CONTRACTOR SHALL PROVIDE 4'x4' SAMPLES OF ALL SPECIFIED FINISHES OF CONCRETE USING THE SAME MATERIALS THAT WILL BE USED IN THE ACTUAL CONSTRUCTION FOR EACH TYPE SPECIFIED. SAMPLES SHALL BE PREPARED WELL ENOUGH IN ADVANCE OF SCHEDULED CONCRETE POUR TO ALLOW FOR REVIEW AND POSSIBLE RE-POURING OF UNACCEPTABLE SAMPLES. UNACCEPTABLE SAMPLES SHALL BE RE-PREPARED UNTIL ACCEPTED BY THE CITY'S REPRESENTATIVE. ACCEPTED SAMPLES SHALL BE PROTECTED AND REMAIN ON SITE FOR REFERENCE UNTIL FINAL ACCEPTANCE.
5. ALL FENCES AND GATES SHOWN ON PLAN ARE GRAPHIC REPRESENTATIONS; REFER TO DETAILS AND SPECIFICATIONS FOR PRECISE LOCATION.
6. ASPHALT SHALL NOT BE INSTALLED UNTIL ALL EDGES AND SITE FURNISHING PADS ARE INSTALLED.

IRRIGATION NOTES

1. THE SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF 50 GPM WITH A MINIMUM 45 STATIC PSI AT THE EMITTER. CONTRACTOR SHALL VERIFY A STATIC PRESSURE OF 85 PSI AT THE TAP PRIOR TO BEGINNING WORK. CONTACT CITY'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAY.
2. ALL WORK SHALL CONFORM TO LOCAL AND STATE CODES AND ORDINANCES. ALL IRRIGATION WORK SHALL CONFORM TO THE LANDSCAPE SECTION OF THE STANDARD PLAN DETAILS FOR PUBLIC WORKS CONSTRUCTION. PROJECT DETAILS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER STANDARD PLAN DETAILS.
3. ALL PLASTIC FITTINGS SHALL BE A MINIMUM OF 18" APART TO FACILITATE REMOVAL AND REPLACEMENT OF INDIVIDUAL FITTINGS. TRENCHING DEPTHS OF POTABLE WATER MAIN SHALL BE 24". ALL MAINS, LATERALS AND CONTROL WIRES SHALL BE INSTALLED IN SCHEDULE 40 P.V.C. SLEEVES (OF APPROPRIATE SIZE) UNDER ALL A.C. AND P.C.C. PAVEMENT.
4. IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE PLANTERS, OR LIMIT OF WORK, INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN PLANTER AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS.
5. CONTRACTOR SHALL ADJUST IRRIGATION HEADS FOR HEAD-TO-HEAD COVERAGE WHILE REDUCING OVER SPRAY ONTO WALKWAYS AND ADJACENT STRUCTURES. VALVES SHALL BE ADJUSTED TO AVOID MISTING AS APPLICABLE. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY ONLY WITH THE APPROVAL OF THE CITY ENGINEER.
6. CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. IRRIGATION LATERAL LINE JOINTS, TEE AND ELBOWS SHALL NOT BE PACED UNDER CONCRETE PAVING.

PLANTING NOTES

1. PLANT COUNTS SHOWN ARE FOR BIDDING REFERENCE ONLY. CONTRACTOR SHALL SUPPLY ALL PLANTS REQUIRED TO FULFILL DESIGN INTENT AS SHOWN.
2. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL PLANT MATERIAL FROM TIME OF DELIVERY TO TIME OF FINAL ACCEPTANCE. DEVELOPER SHALL NOT BE RESPONSIBLE FOR LOSSES DUE TO VANDALISM, THEFT OR SEVERE WEATHER.
3. CONTRACTOR SHALL PLACE PLANT MATERIALS SO THEY DO NOT INTERFERE WITH IRRIGATION SYSTEM OR INHIBIT REQUIRED COVERAGE. PLANT LOCATIONS MAY BE ADJUSTED AS LONG AS DESIGN INTENT IS NOT COMPROMISED. CONTRACTOR SHALL SET OUT PLANT MATERIAL AS PER PLAN AND RECEIVE ACCEPTANCE FROM DEVELOPER'S REPRESENTATIVE WITH RESPECT TO PLANT HEALTH AND LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL GIVE MINIMUM 2 WORKING DAYS NOTICE FOR OBSERVATION AND SHALL HAVE ALL PLANT MATERIAL IN SPECIFIED LOCATIONS FOR REVIEW AT ONE TIME. CONTRACTOR SHALL REPLACE ANY MATERIAL AS REQUESTED BY DEVELOPER'S REPRERESENTATIVE.
4. ALL NON-TURF PLANTING AREAS SHALL RECEIVE A 3" LAYER OF BARK MULCH TOP DRESS (UNLESS NOTED OTHERWISE). REFER TO SPECIFICATIONS.
5. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.
6. PER WELO 14.18.050 B 4. F. (III.) FOR LANDSCAPE INSTALLATIONS, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO THE SOIL. SOILS WITH GREATER THAN 6% ORGANIC MATTER IN THE TOP 6 INCHES OF SOIL ARE EXEMPT FROM ADDING COMPOST AND TILLING. REFER TO SOILS ANALYSIS REPORT FOR ADDITIONAL INFORMATION.

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LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

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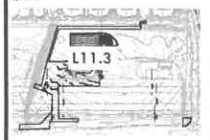
REGISTERED LANDSCAPE ARCHITECT
MARK S. BADEAN
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP



SHEET TITLE

ALTERNATE SHEET

PROJECT NAME

GIBSON
PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/24/21
75% SUBMITTAL	01/17/22
100% SUBMITTAL	05/20/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
VDI	CS
DATE ISSUED	SCALE
05/20/2022	1"=20'-0"

PROJ. NO.
2014500

SHEET NO.
L11.3
OF SHEETS

ALTERNATE SHEET

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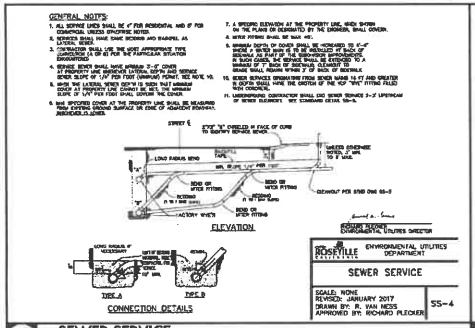
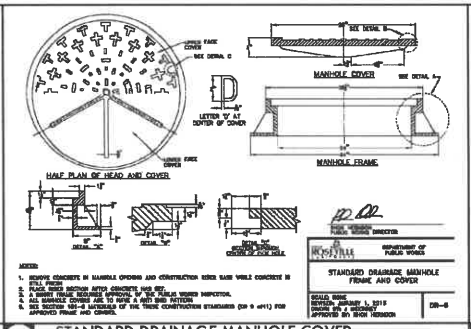
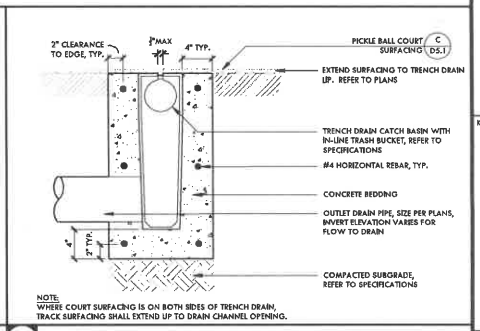


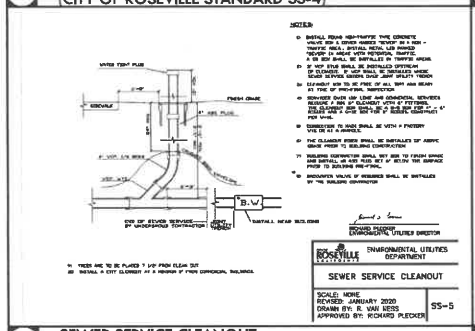
I SEWER SERVICE (CITY OF ROSEVILLE STANDARD SS-4) NTS



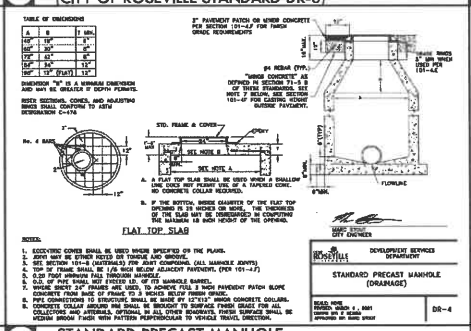
F STANDARD DRAINAGE MANHOLE COVER (CITY OF ROSEVILLE STANDARD DR-6) NTS



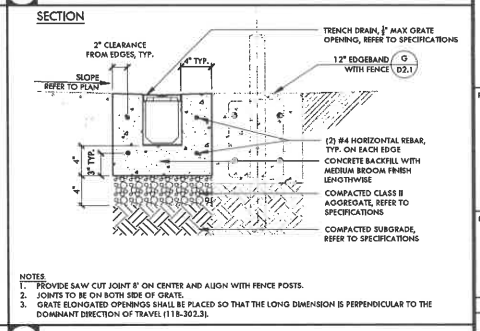
C INLINE TRENCH DRAIN CATCH BASIN



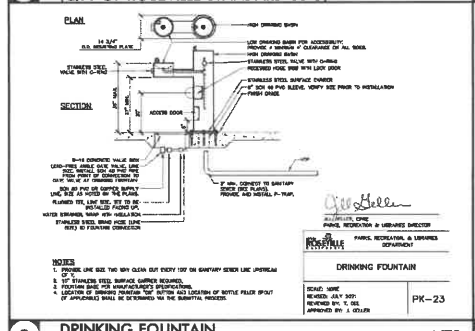
H SEWER SERVICE CLEANOUT (CITY OF ROSEVILLE STANDARD SS-5) NTS



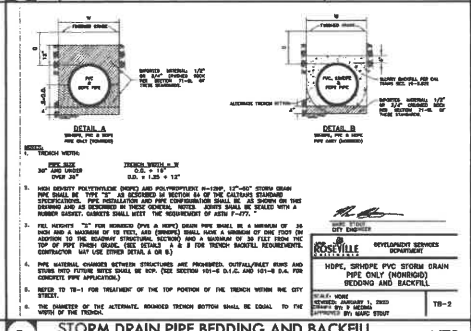
E STANDARD PRECAST MANHOLE (CITY OF ROSEVILLE STANDARD DR-4) NTS



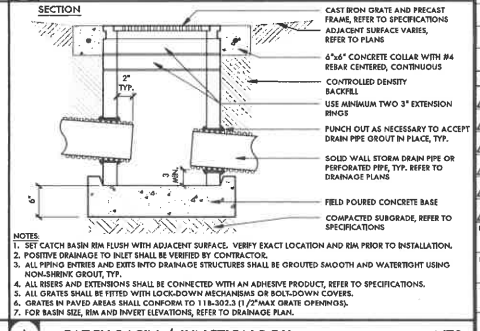
B TRENCH DRAIN NTS



G DRINKING FOUNTAIN (CITY OF ROSEVILLE STANDARD PK-23) NTS



D STORM DRAIN PIPE BEDDING AND BACKFILL (CITY OF ROSEVILLE STANDARD TB-2) NTS



A CATCH BASIN / JUNCTION BOX NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.8554
fax: 916.415.8525
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REGISTERED LANDSCAPE ARCHITECT
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP

SHEET TITLE
DRAINAGE AND UTILITY DETAILS

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/24/21
75% SUBMITTAL	01/17/22
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DRAWN BY: VDI
CHECKED BY: CS
DATE ISSUED: 05/20/2022
SCALE:
PROJ. NO.: 2014500
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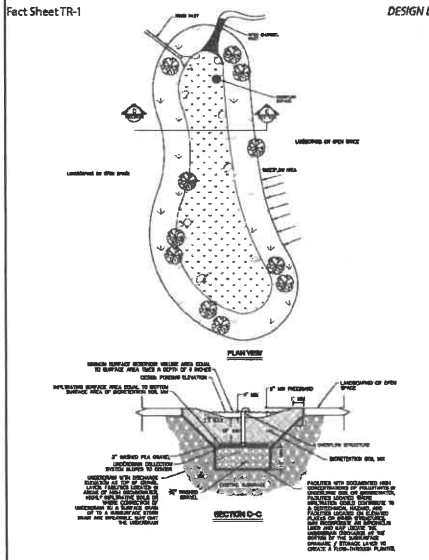
Fact Sheet TR-1

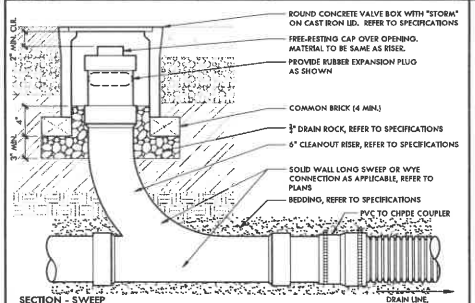
DESIGN DETAILS



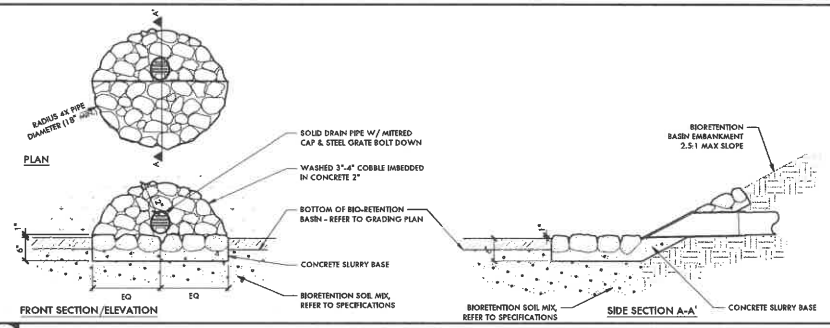
BIORETENTION IN LANDSCAPE OR OPEN SPACE AREAS
Plan and Section Views

DRAWING NOT TO SCALE

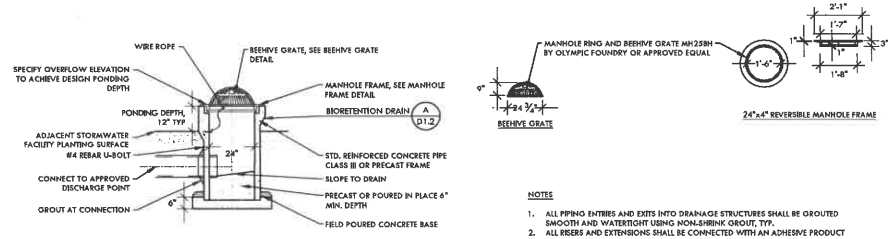
E BIORETENTION IN LANDSCAPE OR OPEN SPACE AREAS (WEST PLACER STORMWATER QUALITY DESIGN MANUAL)



D STORM DRAIN CLEANOUT



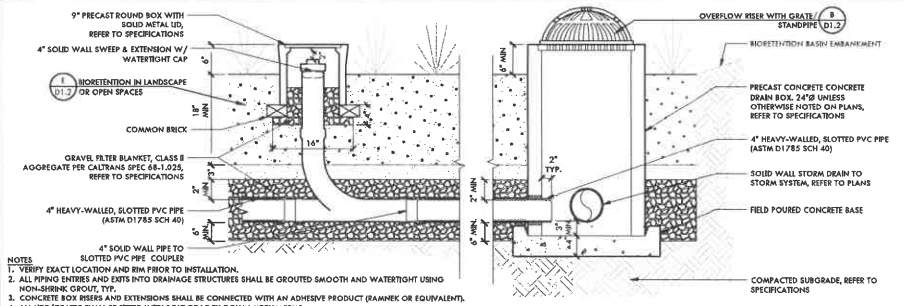
C COBBLE ENERGY DISSIPATOR NTS



NOTES

1. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
2. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT)
3. ALL GRATES SHALL BE FITTED WITH LOCK-DOWN MECHANISMS OR BOLT-DOWN COVERS.

B OVERFLOW RISER WITH GRATE/ STANDPIPE NTS



NOTES

1. VERIFY EXACT LOCATION AND RIM PRIOR TO INSTALLATION.
2. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
3. CONCRETE BOX RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
4. ALL LIDS/GRATES SHALL BE FITTED WITH BOLT OR LOCK-DOWN MECHANISMS.

A BIORETENTION DRAIN NTS

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SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.418.6654
fax: 916.418.6625
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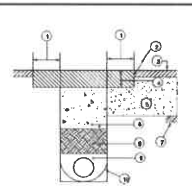


NOTES:
1. 48 INCH KEY CUTBACK TRENCH LINE
2. COAT ALL EXISTING VERTICAL FACES WITH ASPHALTIC EMULSION (TACK) PRIOR TO PAVING
3. EXISTING PAVING
4. PATCH SHALL BE THICKNESS OF EXISTING SECTION PLUS 2 1/2 INCHES, PER CITY TRENCH CUT ORDINANCE (6 INCH MINIMUM THICKNESS).
5. AGGREGATE BASE/PULVERIZED RECOMPACT DISTURBED SURFACE AREAS TO 95%.
6. TWO TEST OF TWO SACK CONCRETE SLURRY PER CALTRANS STANDARD SPECIFICATION 19-3.062
7. NATIVE SOIL
8. NATIVE SOIL TO BE PROCESSED TO 90% RELATIVE COMPACTION.
9. FOR PIPE EMBEDMENT, SEE THE FOLLOWING CONDITIONS:
   a. TB-2 FOR PLASTIC STORM DRAIN PIPE
   b. W-1 FOR WATER PIPE
   c. SS-1 FOR SANITARY SEWER PIPE
   d. FOR REINFORCED CONCRETE PIPE, PLACE 1/2 OR 3/4 INCH CRUSHED ROCK UP TO SPRING LINE WITH A MINIMUM OF FOUR INCHES OF SECOND BELOW PIPE, MAINTAIN A MINIMUM OF SIX INCHES OF CLEARANCE BETWEEN THE PIPE AND THE TRENCH WALL.
10. ALTERNATE TRENCH BOTTOM, THE DIAMETER OF THE ALTERNATE, ROUNDED TRENCH BOTTOM SHALL EQUAL THE WIDTH OF THE TRENCH.

NOTE: THIS DETAIL APPLIES TO UTILITY TRENCHES IN WHICH TRENCH CUT FEES WERE NOT PAID BY THE APPLICANT, OR AS SPECIFIED BY THE ENGINEER.

JASON SMYKOWSKI, PUBLIC WORKS DIRECTOR

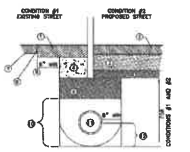
CITY OF ROSEVILLE — DEPARTMENT OF PUBLIC WORKS

DEEP CUT "T" PATCH RECONSTRUCTION ASPHALT STREETS

SCALE: NONE
REVISED: FEBRUARY 2021
DRAWN BY: P. MEDINA
APPROVED BY: JASON SMYKOWSKI

TB-3

C DEEP CUT "T" PATCH RECONSTRUCTION IN ASPHALT (CITY OF ROSEVILLE STANDARD TB-3) NTS



NOTES:
1. PAVEMENT PATCH, 3 INCHES THICK OR THAT OF EXISTING, WHICHEVER IS MORE.
2. AGGREGATE BASE, OR AGGREGATE BASE AND SUBBASE SECTION PER APPROVED PLAN. 95% RELATIVE COMPACTION.
3. PAVEMENT SECTION PER APPROVED PLANS.
4. TWO TEST OF TWO SACK CONCRETE SLURRY PER CALTRANS STANDARD SPEC 19-3.062
5. SIX INCHES OF BORDERING, PROCESSED TO 95% RELATIVE COMPACTION.
6. NATIVE, EXCEPTU MATERIAL, 90% RELATIVE COMPACTION.
7. EXISTING STREET PAVEMENT.
8. SAW CUT ON ALL VERTICAL PAVEMENT SAWCUTS, OR SAWCUT CONCRETE PER STREETS DETAIL ST-34
9. MATCH SLOPE SIDE OF TRENCH IN EXISTING STREET.
10. FOR PIPE EMBEDMENT SEE TB-2 FOR PLASTIC STORM DRAIN, W-1 FOR WATER PIPE, SS-1 FOR SANITARY SEWER PIPE, OF THESE CONSTRUCTION STANDARDS.
11. PIPE
12. FOR REINFORCED CONCRETE PIPE EMBEDMENT: PLACE 1/2 OR 3/4 INCH CRUSHED ROCK UP TO SPRING LINE WITH MINIMUM OF FOUR (4) INCHES OF 1/2 OR 3/4 INCH CRUSHED ROCK BEDDING, MAINTAIN MINIMUM OF SIX (6) INCHES OF CLEARANCE BETWEEN THE PIPE AND THE TRENCH WALL.
13. ALTERNATE TRENCH BOTTOM, THE DIAMETER OF THE ALTERNATE ROUNDED TRENCH BOTTOM SHALL EQUAL THE WIDTH OF THE TRENCH.

NOTE: IN CONDITION #1, TRENCH CUT FEE MAY APPLY PER CITY ORDINANCE.

JASON SMYKOWSKI, PUBLIC WORKS DIRECTOR

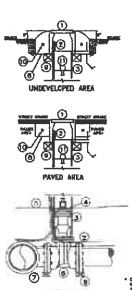
CITY OF ROSEVILLE — DEPARTMENT OF PUBLIC WORKS

UTILITY TRENCH PAVING BACKFILL AND EMBEDMENT

SCALE: NONE
REVISED: FEBRUARY 2021
DRAWN BY: P. MEDINA
APPROVED BY: JASON SMYKOWSKI

TB-1

B UTILITY TRENCH PAVING BACKFILL EMBEDMENT (CITY OF ROSEVILLE STANDARD TB-1) NTS



MATERIALS
1) CONCRETE VALVE BOX
2) 2" DIA WELDED TRACING WIRE
3) 6" TIMES STEEL
4) RISER ASPHALT
5) PLASTIC BACKFILL TAPE
6) GATE VALVE
7) 6" DIA. DUCTILE TEE
8) CONCRETE COLLAR (SEE NOTES) *
9) CONCRETE SLAB (SEE NOTES)
10) 24 INCH ASPHALT CAMBAC (TYP.)
11) VALVE EXTENSION PER SECTION 91-10.8

* CONCRETE COLLAR SHALL BE PLACED FLUSH TO FINISH GRADE IN ALL LOCATIONS AND OPTIONAL IN ALL LOCATIONS EXCEPT IN PAVED AREAS WHERE THE COLLAR SHALL BE PLACED 1/4" BELOW ADJACENT TRAVEL DIRECTION, SET COLLAR 1/4" BELOW ADJACENT PAVEMENT PAVEMENT.

NOTES:
TRACING WIRE THROUGH VALVE BOXES SHALL BE PLACED OUTSIDE OF RISER NOT INSIDE OF BOX.

TRACING WIRE SHALL BE SPLICED WHERE INC. VALVE BOX AND SERVICE LINE. WIRE SHALL LOOP WITHIN THE VALVE BOX WITH 18" OF SLACK WIRE.

ALL GATE VALVES SHALL BE CENTERED IN A ONE PIECE PIPE STOCK WITH THE USE OF A SPACE ADAPTER.

OPERATOR NUTS DEEPER THAN 42 INCHES FROM FINISH GRADE SHALL BE EXTENDED A TRUE NUT EXTENSION 2 FEET MINIMUM IN LENGTH.

VALVE BOXES LOCATED IN A PAVED AREA SHALL BE PLACED ON A 24" DIA CONCRETE COLLAR A MINIMUM OF 3" BELOW PAVEMENT

VALVE BOXES LOCATED IN A LANDSCAPED AREA SHALL BE PLACED ON A 24" DIA BY 3" CONCRETE COLLAR AT FINISH GRADE.

VALVE BOXES LOCATED AT AN UNDEVELOPED AREA SHALL BE PLACED ON A 12" DIA BY 3" DIA CONCRETE COLLAR 2 INCHES ABOVE GRADE.

INSTALL 12" X 3" CONCRETE GRADE UNDER ENTIRE PERIMETER OF BOX.

VALVES AND HYDRANTS SHALL BE REMOVED AND SEALED IN A 24" POLYETHYLENE.

VALVE BOXES SHALL HAVE A MINIMUM OF 12" WIDE VALVE BOX AND SERVICE 2" BELOW METER TAIL.

RICHARD PLECKER, ENVIRONMENTAL UTILITIES DIRECTOR

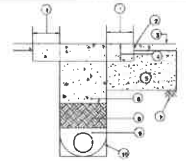
CITY OF ROSEVILLE — ENVIRONMENTAL UTILITIES DEPARTMENT

GATE VALVE & BOX

SCALE: NONE
REVISED: JANUARY 2020
DRAWN BY: R. VAN ACKER
APPROVED BY: RICHARD PLECKER

W-16

D GATE VALVE AND BOX (CITY OF ROSEVILLE STANDARD W-16) NTS



NOTES:
1. SAWCUT EXISTING CONCRETE PAVEMENT PER ST-34 AT LEAST 18" FROM TRENCH LIKE AND:
   a. AT OR EXISTING JOINT.
   b. AT THE MIDDLE OF A TRAVELED LANE OR MID-PANEL PERPENDICULAR TO PATH OF TRAVEL.
2. COAT ALL EXISTING VERTICAL FACES WITH TWO-PART EPOXY PRIOR TO PLACING CONCRETE.
3. EXISTING PAVING
4. PATCH SHALL BE THICKNESS OF EXISTING SECTION PER CITY TRENCH CUT ORDINANCE (6 INCH MINIMUM THICKNESS).
5. AGGREGATE BASE/PULVERIZED RECOMPACT DISTURBED SURFACE AREAS TO 95%.
6. TWO TEST OF TWO SACK CONCRETE SLURRY PER CALTRANS STANDARD SPECIFICATION 19-3.062
7. NATIVE SOIL
8. NATIVE SOIL TO BE PROCESSED TO 90% RELATIVE COMPACTION.
9. FOR PIPE EMBEDMENT, SEE THE FOLLOWING CONDITIONS:
   a. TB-2 FOR PLASTIC STORM DRAIN PIPE
   b. W-1 FOR WATER PIPE
   c. SS-1 FOR SANITARY SEWER PIPE
   d. FOR REINFORCED CONCRETE PIPE, PLACE 1/2 OR 3/4 INCH CRUSHED ROCK UP TO SPRING LINE WITH A MINIMUM OF FOUR INCHES OF SECOND BELOW PIPE, MAINTAIN A MINIMUM OF SIX INCHES OF CLEARANCE BETWEEN THE PIPE AND THE TRENCH WALL.
10. ALTERNATE TRENCH BOTTOM, THE DIAMETER OF THE ALTERNATE, ROUNDED TRENCH BOTTOM SHALL EQUAL THE WIDTH OF THE TRENCH.

NOTE: THIS DETAIL APPLIES TO UTILITY TRENCHES IN WHICH TRENCH CUT FEES WERE NOT PAID BY THE APPLICANT, OR AS SPECIFIED BY THE ENGINEER.

JASON SMYKOWSKI, PUBLIC WORKS DIRECTOR

CITY OF ROSEVILLE — DEVELOPMENT SERVICES DEPARTMENT

DEEP CUT "T" PATCH RECONSTRUCTION CONCRETE STREETS

SCALE: NONE
REVISED: FEBRUARY 2021
DRAWN BY: BENNETT ENGINEERING
APPROVED BY: JASON SMYKOWSKI

TB-3a

A DEEP CUT "T" PATCH RECONSTRUCTION IN CONCRETE (CITY OF ROSEVILLE STANDARD TB-3) NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1643 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6526
www.VerdeDesigninc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK E. BROWN
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP

SHEET TITLE
DRAINAGE AND UTILITY DETAILS

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/24/21
75% SUBMITTAL	01/17/22
100% SUBMITTAL	05/20/22

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY: VDI
CHECKED BY: CS
DATE ISSUED: 05/20/2022
SCALE:
PROJ. NO.: 2014500
SHEET NO.: D1.3 OF SHEETS

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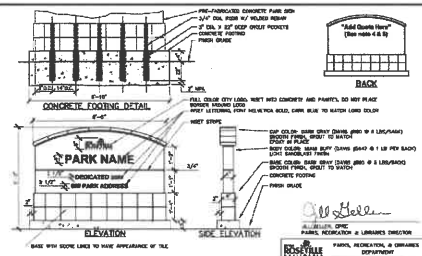
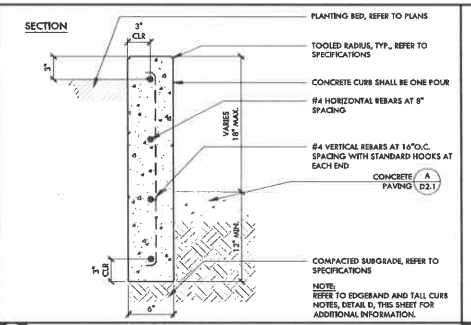


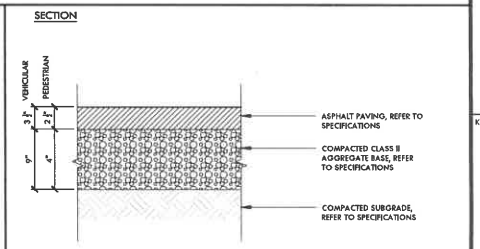
NOTES:
1. CONSULT PROJECT MANAGER FOR CITY OF ROSEVILLE LOGO SPECIFICATIONS.
2. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO SIGN CONSTRUCTION.
3. CONSTRUCT CONCRETE FOOTING PER MANUFACTURER'S SPECIFICATIONS.
4. PROJECT MANAGER TO PROVIDE PARK NAME, ADDRESS AND DATES ON BACK OF SIGN WITH PROJECT MANAGER PRIOR TO PLACING ORDER.
5. NOTE ON BACK OF SIGN: WHITE LETTERING, 2-1/2" TALL, FONT HELVETICA, BARK BLUE.

I PARK IDENTIFICATION SIGN (CITY OF ROSEVILLE STANDARD PK-28) NTS

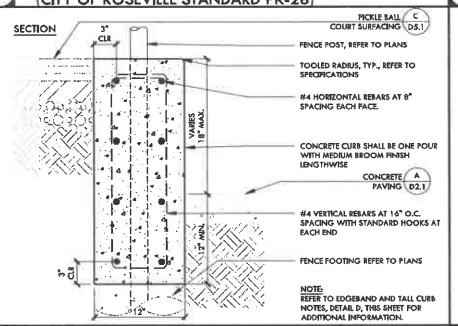


NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL D, THIS SHEET FOR ADDITIONAL INFORMATION.

F 6" WIDE TALL CURB NTS

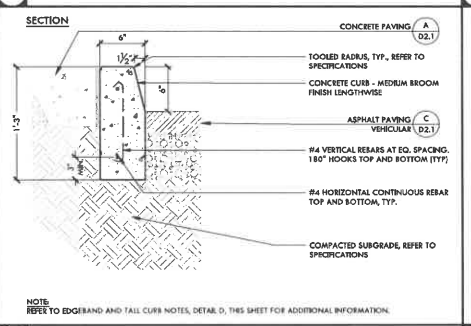


C ASPHALT PAVING NTS



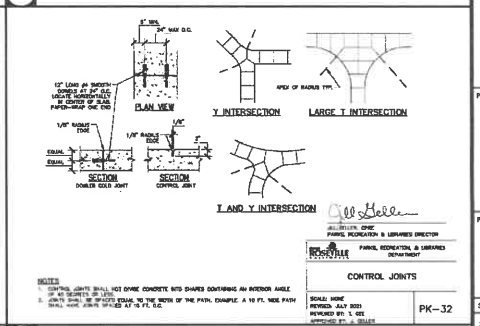
NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL D, THIS SHEET FOR ADDITIONAL INFORMATION.

H 12" WIDE TALL CURB WITH FENCE NTS

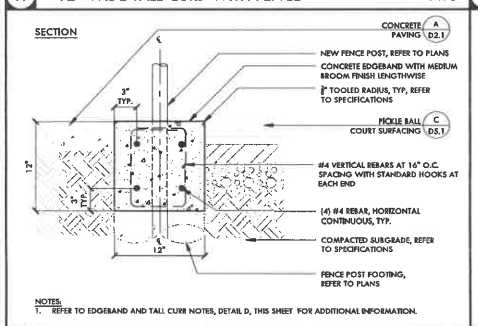


NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL D, THIS SHEET FOR ADDITIONAL INFORMATION.

E 6" CURB NTS



B CONTROL JOINTS (CITY OF ROSEVILLE STANDARD PK-32) NTS



NOTES:
1. REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL D, THIS SHEET FOR ADDITIONAL INFORMATION.

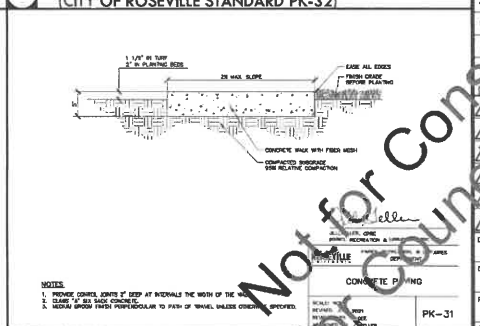
G 12" WIDE EDGEBAND WITH FENCE NTS

NOTES PERTAIN TO ALL EDGEBAND AND CURB DETAILS:
1. FOR EDGEBANDS AND CURBS WITH FENCING, INSTALL DOWELED COLD JOINTS AT ALL CORNERS, BEGINNINGS, AND ENDINGS OF RADII, AND AT ALL FENCE POSTS. INSTALL CONTROL JOINTS AT 5' O.C. AND OR EVENLY SPACED AND CENTERED BETWEEN POSTS.
2. FOR EDGEBAND AND CURBS WITHOUT FENCING, INSTALL CONTROL JOINTS AT 10' O.C. SPACING AND DOWELED COLD JOINTS EVERY 20' ON STRAIGHT RUNS. ON CURVED RUNS, DOWELED COLD JOINTS SHALL BE SPACED 10' O.C., WITH ALTERNATING CONTROL JOINTS AT 5' O.C. SPACING.
3. ALL DOWELED COLD JOINTS SHALL BE SEALED, PER SPECIFICATIONS.

NOTES PERTAIN TO ALL TALL CURB DETAILS:
1. PROVIDE DOWELED COLD JOINTS AT 16' O.C. SPACING, CENTERED BETWEEN FENCE POSTS.
2. PROVIDE DOWELED COLD JOINTS AT EACH LOCATION WHERE AN ELEVATION STEP OCCURS BETWEEN CHANGING CURB/EDGEBAND TYPES.
3. AT DOWELED COLD JOINTS, PROVIDE A 24" LONG #4 DOWEL AT EACH CURB HORIZONTAL REBAR, CENTERED ON THE JOINT, AS PER DETAIL.
4. DOWELED COLD JOINTS SHALL BE INSTALLED WITH A ½" CHAMFER BUILT INTO THE FORM WORK, IN ADDITION TO THE DOWELED COLD JOINT MATERIAL.
5. PROVIDE A CONTROL JOINT AT EACH FENCE POST. THE VERTICAL JOINT SHALL BE A ½" CHAMFER BUILT INTO THE FORM WORK. THE HORIZONTAL JOINT, ALONG THE TOP OF CURB, SHALL BE A TOOLED SCORE JOINT, ALIGNED WITH AND MATCHING THE VERTICAL CHAMFER JOINT.
6. ALL DOWELED COLD JOINTS SHALL BE SEALED PER SPECIFICATION.
7. NO CONTROL JOINTS ARE REQUIRED ON TALL CURBS, EXCEPT AS INDICATED AT EACH FENCE POST IN ITEM #5 ABOVE.

FINISHES:
EDGEBANDS AND CURBS: MEDIUM BROOM
WALL AND TALL CURBS: MEDIUM SAND BLAST - TOP AND SIDES

D EDGEBAND AND TALL CURB NOTES NTS



NOTES:
1. PROVIDE CONTROL JOINTS 2" DEEP AT INTERVALS THE WIDTH OF THE WALK.
2. CLASS "A" 520 SACK CONCRETE.
3. MEDIUM BROOM FINISH PERPENDICULAR TO PATH OF TRAVEL UNLESS OTHERWISE SPECIFIED.

A CONCRETE PAVING (CITY OF ROSEVILLE STANDARD PK-31) NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
WAYNE S. DICKERT
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP

SHEET TITLE
HARDSCAPE DETAILS

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/31/21
75% SUBMITTAL	11/17/21
100% SUBMITTAL	03/30/22

NO	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
VDI	CS
DATE ISSUED	SCALE
05/20/2022	NTS
PROJ. NO.	
2014500	
SHEET NO.	
D2.1 OF SHEETS	

Not for Construction
For Council Approval

SPECIFIC REQUIREMENTS FOR DETECTABLE WARNINGS SHALL BE AS FOLLOWS:

1. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A BASE DIAMETER OF 0.9 INCH (22.9 MM) MINIMUM AND 0.92 INCH (23.4 MM) MAXIMUM, A TOP DIAMETER OF 0.45 INCH (11.4 MM) MINIMUM AND 0.47 INCH (11.9 MM) MAXIMUM, AND A HEIGHT OF 0.2 INCH (5.1 MM).

2. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A CENTER-TO-CENTER SPACING OF 2.3 INCHES (58 MM) MINIMUM AND 2.4 INCHES (61 MM) MAXIMUM, AND A BASE-TO-BASE SPACING OF 0.65 INCH (16.5 MM) MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON A SQUARE GRID. EXCEPTION: WHERE INSTALLED IN A RADIAL PATTERN, TRUNCATED DOMES SHALL HAVE A CENTER-TO-CENTER SPACING OF 1.6 INCHES (41 MM) MINIMUM TO 2.4 INCHES (61 MM) MAXIMUM.

3. SURFACES AT TRANSIT BOARDING PLATFORM EDGES, BUS STOPS, HAZARDOUS VEHICULAR AREAS, REFLECTING POOLS, AND TRACK CROSSINGS SHALL COMPLY WITH SECTION 118-705.1.1.3.1.

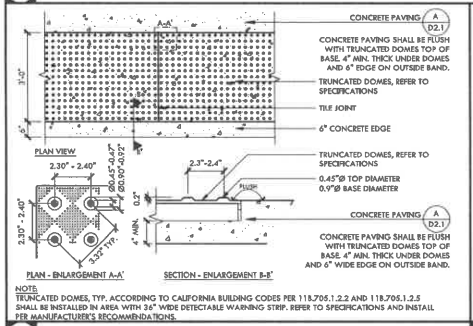
4. DETECTABLE WARNINGS AT OTHER LOCATIONS SHALL COMPLY WITH EITHER SECTION 118-705.1.1.3.1 OR SECTION 118-705.1.1.3.2. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE SURFACE.

5. 118-705.1.1.3.1 DETECTABLE WARNING SURFACES SHALL BE YELLOW AND APPROXIMATE FS 33538 OF FEDERAL STANDARD 595C.

6. 118-705.1.1.3.2 DETECTABLE WARNING SURFACES SHALL PROVIDE A 70 PERCENT MINIMUM VISUAL CONTRAST WITH ADJACENT WALKING SURFACES. CONTRAST IN PERCENT SHALL BE DETERMINED BY:
CONTRAST PERCENT = [(B1-B2)/B1] × 100
WHERE B1 = LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER AREA AND B2 = LIGHT REFLECTANCE VALUE (LRV) OF THE DARKER AREA. EXCEPTION: WHERE THE DETECTABLE WARNING SURFACE DOES NOT PROVIDE A 70 PERCENT MINIMUM CONTRAST WITH ADJACENT WALKING SURFACES, A 1-INCH (25 MM) WIDE MINIMUM VISUALLY CONTRASTING SURFACE SHALL SEPARATE THE DETECTABLE WARNING FROM ADJACENT WALKING SURFACES. THE VISUALLY CONTRASTING SURFACE SHALL CONTRAST WITH BOTH THE DETECTABLE WARNING AND ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

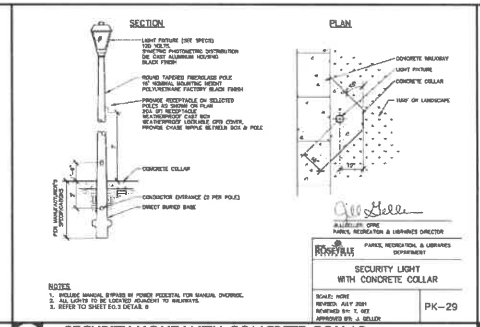
7. 118-703.1.1.4 RESILIENCY. DETECTABLE WARNING SURFACES SHALL DIFFER FROM ADJOINING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.

I DETECTABLE WARNING SURFACE SPECIFIC REQUIREMENTS — NTS



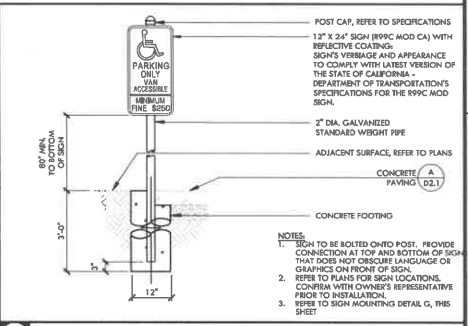
NOTE:
TRUNCATED DOMES, TYP. ACCORDING TO CALIFORNIA BUILDING CODES PER 118.705.1.2.2 AND 118.705.1.2.5 SHALL BE INSTALLED IN AREA WITH 36" WIDE DETECTABLE WARNING STRIP. REFER TO SPECIFICATIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

H TRUNCATED DOMES (RECESSED) — NTS



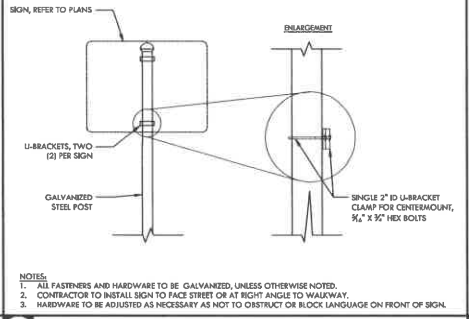
NOTES:
1. ROLLING MANUAL BYPASS BY POWER PEDESTAL FOR MANUAL CHARGING.
2. ALL LIGHTS TO BE LOCKED ADJACENT TO RAILWAYS.
3. REFER TO SHEET E0.3 DETAIL B

F SECURITY LIGHT WITH CONCRETE COLLAR (CITY OF ROSEVILLE STANDARD PK-29) — NTS



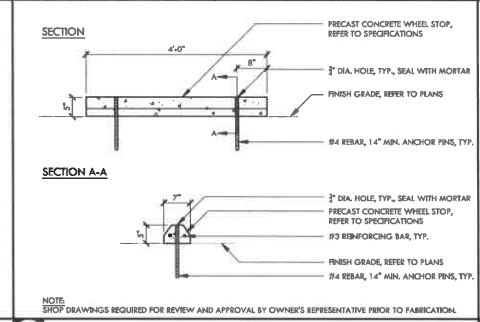
NOTES:
1. SIGN TO BE BOLTED ONTO POST. PROVIDE CONNECTION AT TOP AND BOTTOM OF SIGN THAT DOES NOT OBSCURE LANGUAGE OR GRAPHICS ON FRONT OF SIGN.
2. REFER TO PLANS FOR SIGN LOCATIONS. CONFIRM WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
3. REFER TO SIGN MOUNTING DETAIL G, THIS SHEET

C ACCESSIBLE PARKING SIGN - VAN — NTS



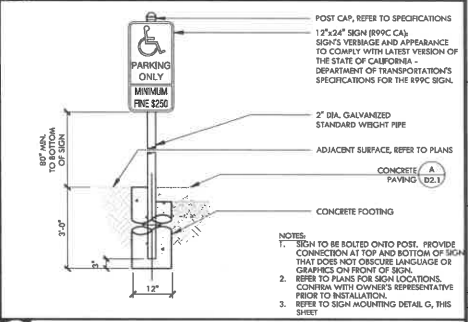
NOTES:
1. ALL FASTENERS AND HARDWARE TO BE GALVANIZED, UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO INSTALL SIGN TO FACE STREET OR AT RIGHT ANGLE TO WALKWAY.
3. HARDWARE TO BE ADJUSTED AS NECESSARY AS NOT TO OBSTRUCT OR BLOCK LANGUAGE ON FRONT OF SIGN.

G SIGN MOUNTING — NTS



NOTE:
SHOP DRAWINGS REQUIRED FOR REVIEW AND APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO FABRICATION.

E PRECAST CONCRETE WHEEL STOP — NTS



NOTES:
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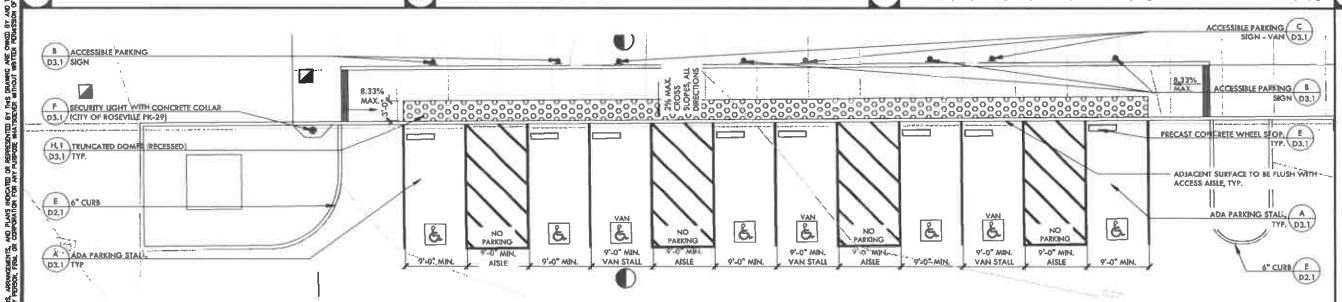
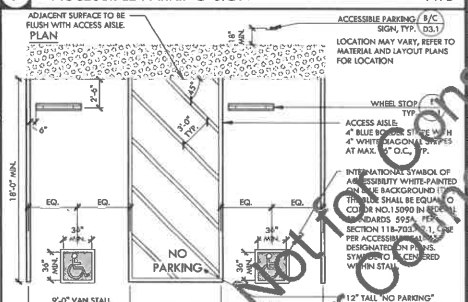
2. REFER TO PLANS FOR SIGN LOCATIONS. CONFIRM WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
3. REFER TO SIGN MOUNTING DETAIL G, THIS SHEET

B ACCESSIBLE PARKING SIGN — NTS



D ACCESSIBLE PARKING — NTS



A ADA PARKING STALL — NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.4554
fax: 916.415.4555
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT — MARK T. BICKERT — No. 4089 — Signature — EXPIRATION DATE: JULY 2023 — STATE OF CALIFORNIA

KEY MAP

SHEET TITLE
PARKING DETAILS

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/3/2021
75% SUBMITTAL	04/13/22
100% SUBMITTAL	07/20/22

NO	REVISIONS	DATE
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DRAWN BY	CHECKED BY
VDI	CS
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05/20/2022	NTS
PROJ. NO.	
2014500	
SHEET NO.	
D3.1	OF SHEETS

PARKING DETAILS

NOT For Construction Approval

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FENCE POST & FOOTING SCHEDULE

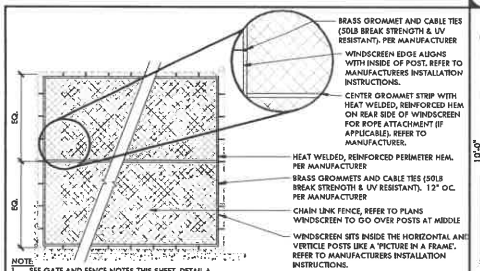
DESCRIPTION	HEIGHT	LINE POST (STD. GALV. PIPE)	CORNER/END POST (STD. GALV. PIPE)	FOOTING DIMENSIONS
CHAIN LINK FENCE	48"	1 ⅞" DIA. STD.	2" DIA. STD.	12" DIA. X 2'-6" DEEP
CHAIN LINK FENCE WITH WINDSCREEN	10'	4" DIA. STD.	4" DIA. STD	18" DIA. X 5'-6" DEEP
TRELLIS SYSTEM	8'	3" SQUARE	3" SQUARE	10" DIA. X 42" DEEP

NOTES:
1. REFER TO PLANS & DETAILS FOR POST LOCATIONS AND TOP OF POST FOOTING.
2. REFER TO FENCE FOOTING DETAIL, DETAIL B, THIS SHEET
3. THE PIPE SIZES INDICATED ARE FOR NPS, REFER TO SPECIFICATIONS.

G FOOTING SCHEDULE NTS

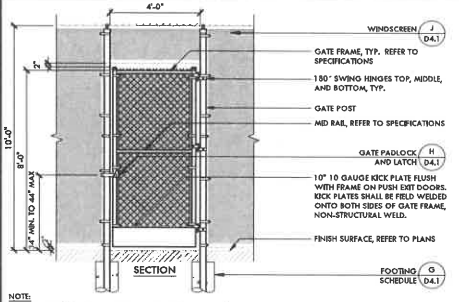
GATE POST FOOTING SCHEDULE

DESCRIPTION	SIZE (H x L)	GATE POST (STD. GALV. PIPE)	FOOTING DIMENSIONS
CHAIN LINK SWING GATE WITH TRANSOM AND WINDSCREEN	8' X 4'	4" DIA. STD.	18" DIA. X 4'-6" DEEP



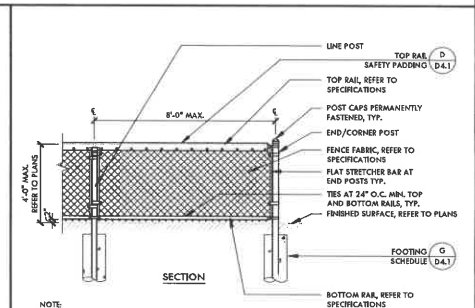
NOTE:
1. SEE GATE AND FENCE NOTES THIS SHEET, DETAIL A.
2. FENCES TALLER THAN 9'-0" SHALL HAVE RECTANGULAR AIR VENT CUT OUT EVERY TWELVE FEET WITH HEAT WELDED, REINFORCED PERIMETER HEM.
3. THE CONTRACTOR TO FIELD MEASURE PRIOR TO ORDERING TO AVOID EXTRA FABRIC. NO "BUNCHING" OR "ROLLING" OF FABRIC TO "FIT" THE PANELS IS ALLOWED NOR IS EXTRA FABRIC ALLOWED TO WRAP OVER THE FENCE OR SIT ON THE GROUND.

J WINDSCREEN NTS



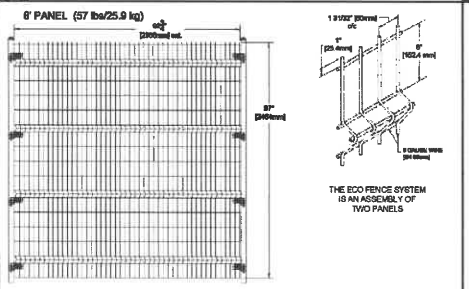
NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.

F 8' TALL x 4' WIDE GATE WITH TRANSOM AND WINDSCREEN NTS



NOTE:
1. SEE GENERAL FENCE & GATE NOTES DETAIL A, THIS SHEET.

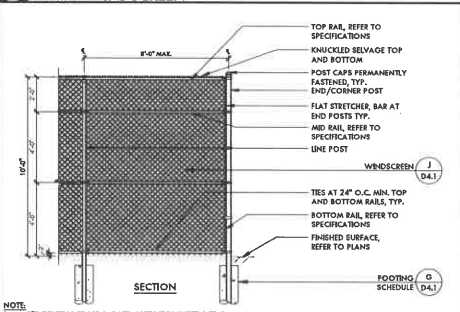
C 4' TALL CHAIN LINK FENCE WITH TOP RAIL SAFETY PADDING NTS



THE ECO FENCE SYSTEM IS AN ASSEMBLY OF TWO PANELS

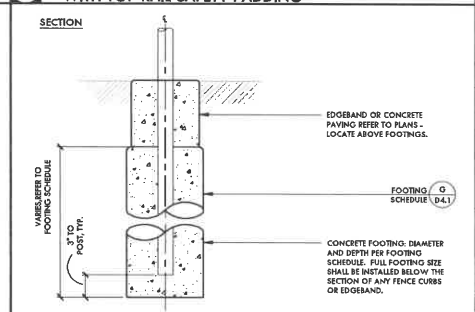
NOTE:
1. REFER TO DETAIL G, THIS SHEET AND STRUCTURAL DRAWINGS FOR TRELLIS FOOTING.

I TRELLIS SYSTEM NTS



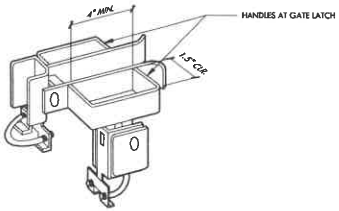
NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.

E 10' TALL CHAIN LINK FENCE WITH WINDSCREEN NTS



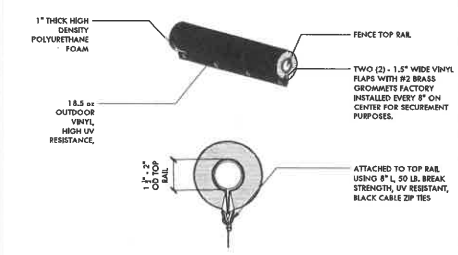
B FENCE FOOTING PROFILE NTS

ISOMETRIC



NOTES:
1. FULCRUM GATE LATCH AT HOOVER FENCE CO.
2. LATCH HANDLE MEASURED FROM INSIDE EDGE.
3. WELD HANDLE ON BOTH SIDES, MOUNT LEVER ON GATE.
4. CONTRACTOR TO REFER TO STRUCTURAL DRAWINGS FOR RECEIVING FENCE POST SIZES AND REFER TO SPECIFICATIONS FOR GATE FRAME SIZES. CONTRACTOR TO COORDINATE FABRICATION WITH MANUFACTURER FOR APPROPRIATE GATE LATCH SIZES.

H GATE PADLOCK AND LATCH NTS



NOTE:
1. PADDING TO BE SPORTSFIELD SPECIALTIES MODEL GRIPSO ECONOMY ROUND GUARD RAIL PADDING.

D TOP RAIL SAFETY PADDING NTS

NOTES PERTAIN TO ALL GATE AND FENCE DETAILS:

1. FENCE FABRIC ON PERIMETER FENCING IS TO BE ON COURT SIDE.
2. BOTTOM RAIL TO BE 2" FROM FINISH GRADE, FENCE FABRIC BOTTOM EDGE TO BE 1" FROM FINISH GRADE.
3. SUBMIT SHOP DRAWINGS FOR ACCEPTANCE BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
4. GATES IN ACCESSIBLE PATH OF TRAVEL MUST MEET ENTRY AND EXIT DOOR REQUIREMENTS FOR ACCESSIBILITY PER 2019 CALIFORNIA BUILDING CODE (11B-404). REFER TO ACCESSIBILITY PLANS LO.01.
5. ALL PEDESTRIAN SWING GATES SHALL HAVE A KICK PLATE ATTACHMENT.
6. REFER TO PLANS FOR EDGEBAND TYPE UNLESS OTHERWISE NOTED.
7. REFER TO PLANS AND DETAILS FOR FENCING WITH CURBS AND CHANGE IN ELEVATIONS.
8. TACK WELD HINGES TO POSTS AT GATES.
9. THE PIPE SIZES INDICATED ARE NPS FOR STANDARD PIPE SCHEDULE 40.
10. ALL FENCE POST SET IN CONCRETE SHALL BE COATED WITH ONE COAT OF BITUMINOUS PAINT.

A FENCE AND GATES NOTES NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.418.4554
fax: 916.418.4526
www.VerdeDesigninc.com

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BRISTAT
No. 4069
Signature
EXPIRATION DATE: JULY 2022
STATE OF CALIFORNIA

KEY MAP

SHEET TITLE
FENCING DETAILS

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/24/21
75% SUBMITTAL	01/17/22
100% SUBMITTAL	05/20/22

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY: VDI
CHECKED BY: CS
DATE ISSUED: 05/20/2022
SCALE: NTS
PROJ. NO.: 2014500
SHEET NO.: D4.1 OF SHEETS

FENCING DETAILS

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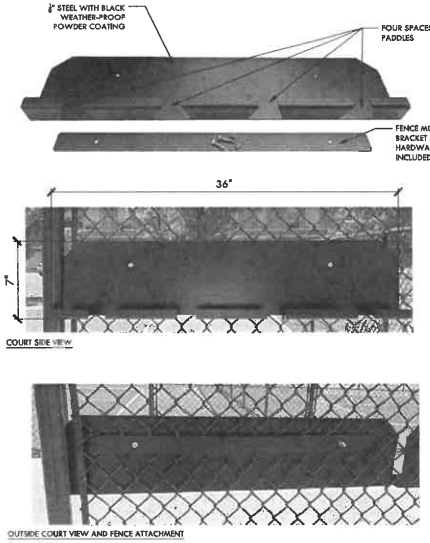
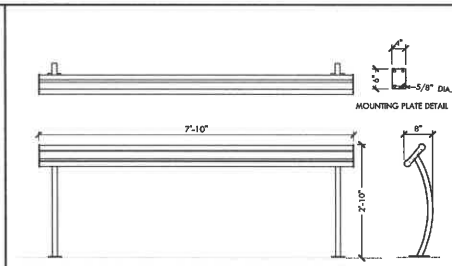
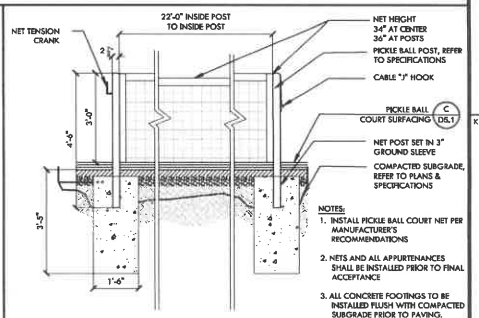


G PADDLE RACK NTS



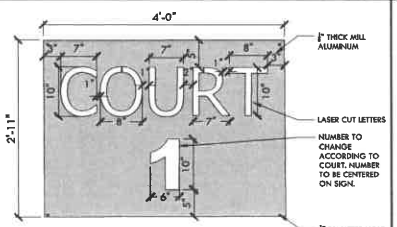
NOTE:
1. REFER TO SPECIFICATION FOR MANUFACTURER AND MODEL.
2. CITY TO SELECT COLOR OF EQUIPMENT.

E LEANING RAIL NTS



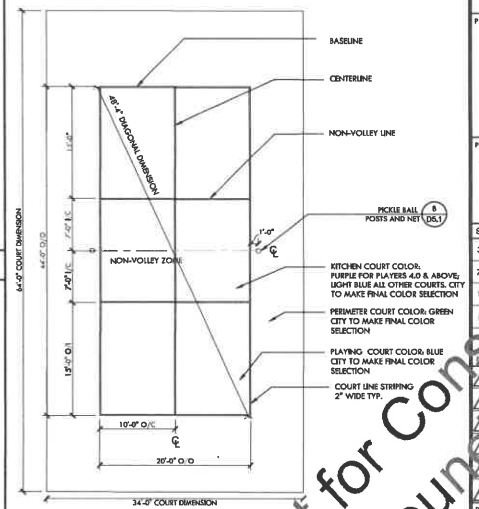
NOTES:
1. INSTALL PICKLE BALL COURT NET PER MANUFACTURER'S RECOMMENDATIONS
2. NETS AND ALL APPURTENANCES SHALL BE INSTALLED PRIOR TO FINAL ACCEPTANCE
3. ALL CONCRETE FOOTINGS TO BE INSTALLED FLUSH WITH COMPACTED SUBGRADE PRIOR TO PAVING.

B PICKLE BALL POSTS AND NET NTS



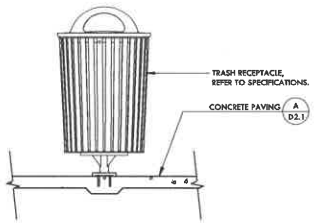
NOTE:
1. THERE WILL BE 6 SEPARATE COURT SIGNS. ONE PER COURT. EACH SIGN WILL HAVE A NUMBER 1-6 THAT IDENTIFIES THE COURT.
2. THE SIGN TO BE FASTENED TO THE FENCE WITH METAL B RINGS - RINGS SHALL BE GALVANIZED AND BE A MINIMUM 9 GAUGE FOR FASTENING TO FENCE, TYP.

D COURT IDENTIFICATION SIGN NTS



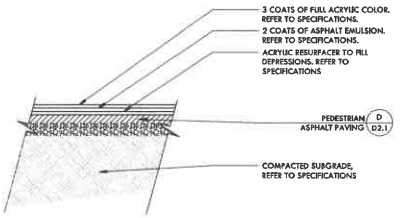
NOTES:
1. O/I = OUTSIDE OF LINE TO INSIDE OF LINE
2. O/C = OUTSIDE OF LINE TO CENTER OF LINE
3. I/C = INSIDE OF LINE TO CENTER OF LINE
4. O/O = OUTSIDE OF LINE TO OUTSIDE OF LINE
5. LINES SHALL BE 2" WIDE

A PICKLEBALL COURT LAYOUT NTS



NOTES:
A REFER TO SPECIFICATIONS FOR MANUFACTURER AND MODEL NUMBER.
B REFER TO MANUFACTURER'S SPECIFICATIONS FOR SURFACE MOUNTING AND DOME LID INSTALLATION.

F TRASH RECEPTACLE NTS



C PICKLE BALL COURT SURFACING NTS

FILE NAME:	_DTL_PICKLEBALL.dwg	DATE DRAWN:	XXX
DRAWN BY:	XXX	DATE REVISED:	XXX

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SPORT PLANNING & DESIGN
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Folsom, CA 95630
tel: 916.415.8554
fax: 916.415.8625
www.VerdeDesigninc.com

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BRIGHAM
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP

SHEET TITLE
PICKLEBALL DETAILS

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2022
75% SUBMITTAL	09/17/22
100% SUBMITTAL	10/20/22

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		

DRAWN BY	CHECKED BY
VDI	CS
DATE ISSUED	SCALE
05/20/2022	

PROJ. NO.
2014500

SHEET NO.
D5.1 OF SHEETS

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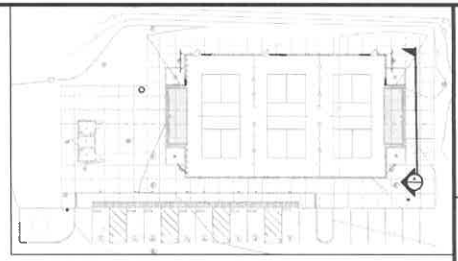
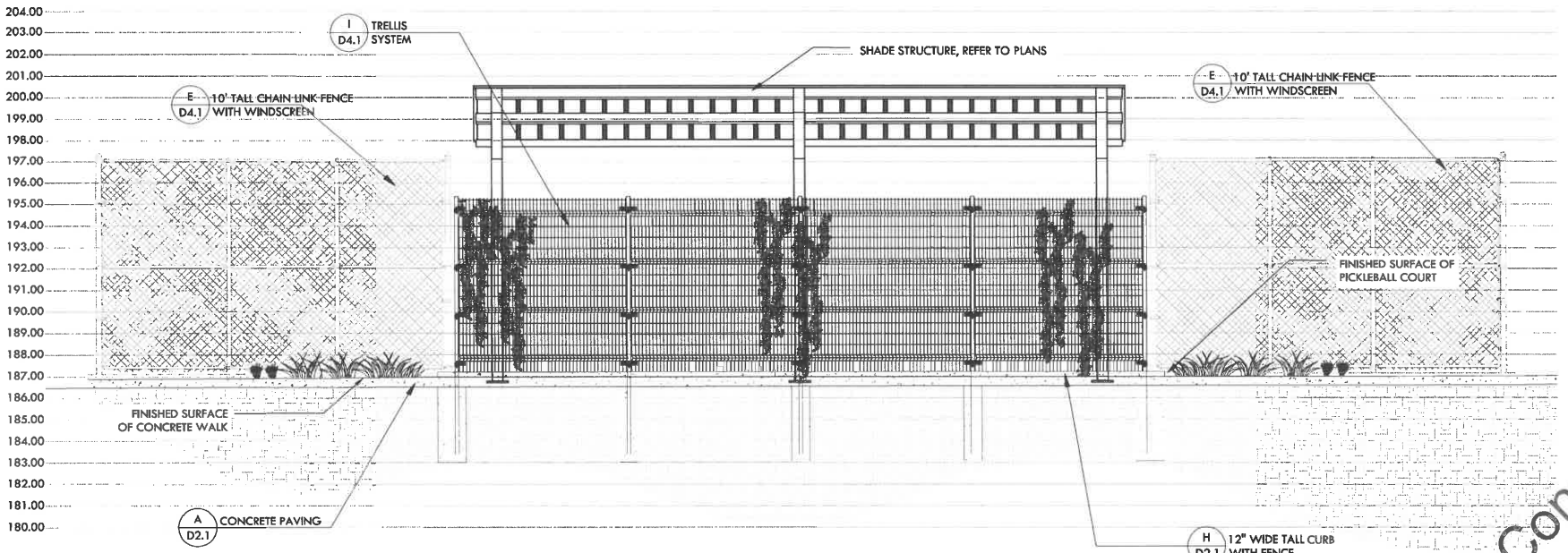
For Council Approval



KEY MAP



A PICKLE BALL COURTS FACING WEST

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BASSETT
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP

SHEET TITLE
PICKLEBALL COURTS SECTION

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/[illegible]
75% SUBMITTAL	[illegible]
100% SUBMITTAL	[illegible]/22

NO.	REVISIONS	DATE
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DATE ISSUED: 05/20/2022
SCALE:
PROJ. NO.: 2014500
SHEET NO.: D5.2 OF SHEETS

PICKLEBALL COURTS SECTION

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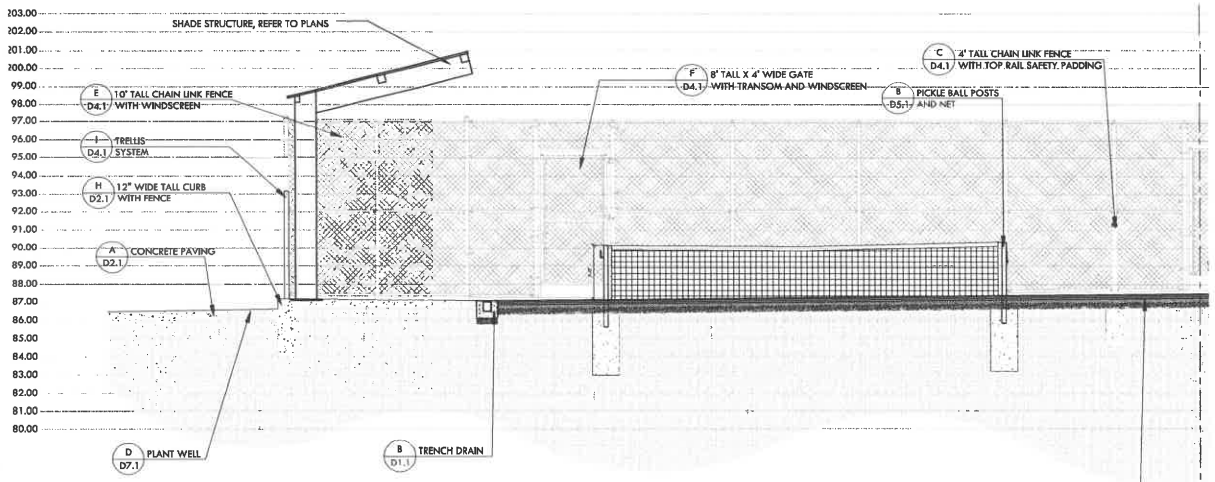
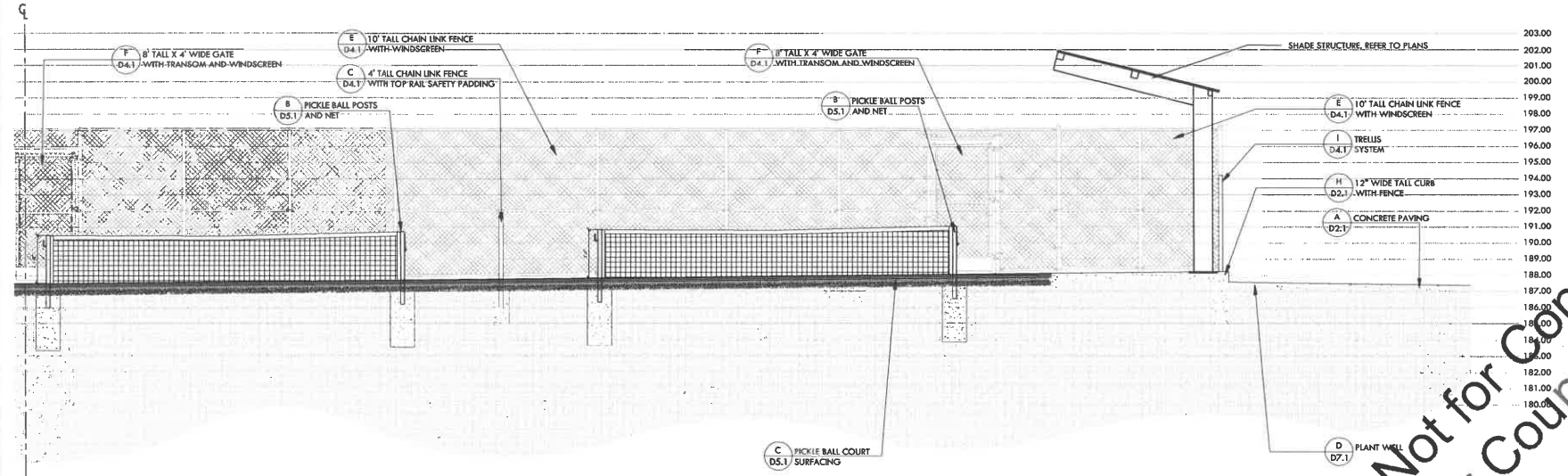
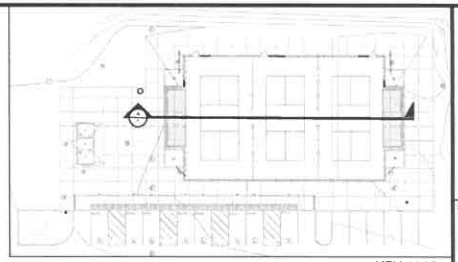




A PICKLE BALL COURTS SECTION



KEY MAP

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REGISTERED LANDSCAPE ARCHITECT
MIKE BRADY
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP

SHEET TITLE
PICKLEBALL COURTS SECTION

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2[illegible]
75% SUBMITTAL	[illegible]
100% SUBMITTAL	[illegible]/22

NO.	REVISIONS	DATE
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PROJ. NO.	
2014500	
SHEET NO.	
D5.3 OF SHEETS	

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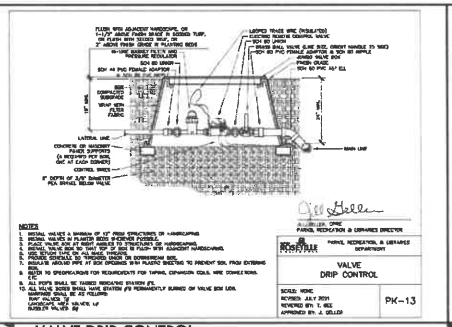


NOTES
1. INSTALL VALVES A MINIMUM OF 12" FROM STRUCTURES OR HANDICAPPING.
2. INSTALL VALVES IN PLANTER BEDS OR GRASS AREAS.
3. INSTALL TOP OF VALVE BOX TO "FINISH GRADE" IN PLANTING AREAS.
4. INSTALL TOP OF VALVE BOX TO "FINISH GRADE" IN TURF AREAS.
5. USE SQUARE BOXES FOR ALL MANUAL VALVES.
6. INSTALL 12" DIAMETER ROUND BOXES FOR ALL AUTOMATIC VALVES.
7. INSULATE AROUND PIPE AT SIDE OPENINGS WITH PLASTIC SHEETING TO PREVENT SOIL FROM ENTERING BOX.
8. REFER TO SPECIFICATIONS FOR REQUIREMENTS FOR TAPING, EXPANSION LOOP, WIRE CONNECTIONS.
9. ALL VALVES SHALL BE LABELED INDICATING STATION #'S.
10. ALL VALVE BOXES SHALL HAVE STATION #'S PERMANENTLY BURNED ON VALVE BOX LIDS.

SHRUB AREA: 1,000 SQ. FT.
LANDSCAPE AREA: 10,000 SQ. FT.
NUMBER OF VALVES: 20

Jill Gellen
ALLISON GIBSON, DIRECTOR
PARKS, RECREATION & LIBRARIES DEPARTMENT

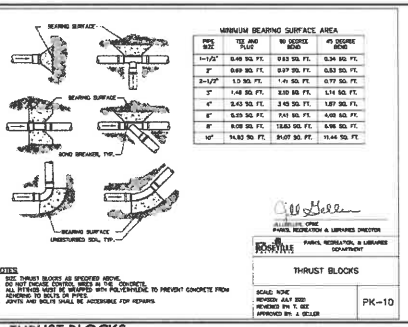
ROSEVILLE PARKS, RECREATION & LIBRARIES DEPARTMENT

VALVE
DRIP CONTROL

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK-13

I VALVE DRIP CONTROL (CITY OF ROSEVILLE STANDARD PK-13) NTS



MINIMUM BEARING SURFACE AREA

PIPE SIZE	TEE AND PLUG	90 DEGREE BEND	45 DEGREE BEND
1-1/2"	0.48 SQ. FT.	0.83 SQ. FT.	0.34 SQ. FT.
2"	0.69 SQ. FT.	0.97 SQ. FT.	0.53 SQ. FT.
2-1/2"	1.0 SQ. FT.	1.41 SQ. FT.	0.77 SQ. FT.
3"	1.48 SQ. FT.	2.10 SQ. FT.	1.14 SQ. FT.
4"	2.43 SQ. FT.	3.43 SQ. FT.	1.87 SQ. FT.
6"	5.09 SQ. FT.	7.41 SQ. FT.	4.00 SQ. FT.
8"	9.08 SQ. FT.	13.83 SQ. FT.	6.98 SQ. FT.
10"	14.80 SQ. FT.	21.07 SQ. FT.	11.44 SQ. FT.

NOTES
1. SIZE THRUST BLOCKS AS SPECIFIED ABOVE.
2. DO NOT ENCASE CONTROL WIRES IN THE CONCRETE.
3. ALL FITTINGS MUST BE WRAPPED WITH POLYETHYLENE TO PREVENT CONCRETE FROM ADHERING TO BOLTS OR PIPES.
4. JOINTS AND BOLTS SHALL BE ACCESSIBLE FOR REPAIRS.

Jill Gellen
ALLISON GIBSON, DIRECTOR
PARKS, RECREATION & LIBRARIES DEPARTMENT

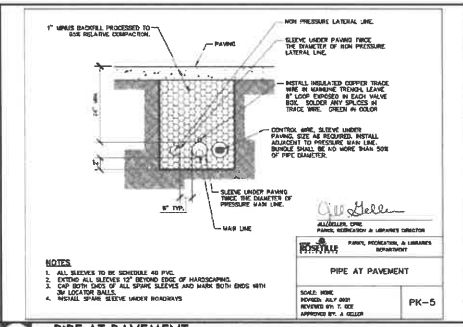
ROSEVILLE PARKS, RECREATION & LIBRARIES DEPARTMENT

THRUST BLOCKS

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK-10

F THRUST BLOCKS (CITY OF ROSEVILLE STANDARD PK-10) NTS



NOTES
1. ALL SLEEVES TO BE SCHEDULE 40 PVC.
2. EXTEND ALL SLEEVES 12" BEYOND EDGE OF HARDSCAPING.
3. LOCATE 12" BOTH SIDES OF ALL SPARE SLEEVES AND MARK BOTH ENDS WITH 3M LOCATOR BALLS.
4. INSTALL SPARE SLEEVE UNDER ROADWAYS

Jill Gellen
ALLISON GIBSON, DIRECTOR
PARKS, RECREATION & LIBRARIES DEPARTMENT

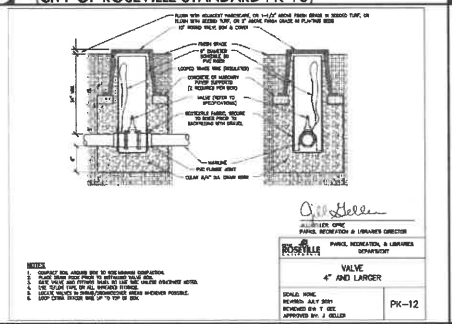
ROSEVILLE PARKS, RECREATION & LIBRARIES DEPARTMENT

PIPE AT PAVEMENT

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK-5

C PIPE AT PAVEMENT (CITY OF ROSEVILLE STANDARD PK-5) NTS



NOTES
1. CONTRACT SOIL AROUND BOX TO 95% MAXIMUM COMPACTION.
2. PLACE GRAVEL ROCK PRIOR TO INSTALLING VALVE BOX.
3. USE SQUARE BOXES FOR ALL MANUAL VALVES.
4. USE TOLLING LINE ON ALL MANUAL VALVES.
5. LOCATE VALVES IN GRASS/GROUNDCOVER AREAS WHENEVER POSSIBLE.
6. LOOP EXTRA STRAIGHT WIRE UP TO TOP OF BOX.

Jill Gellen
ALLISON GIBSON, DIRECTOR
PARKS, RECREATION & LIBRARIES DEPARTMENT

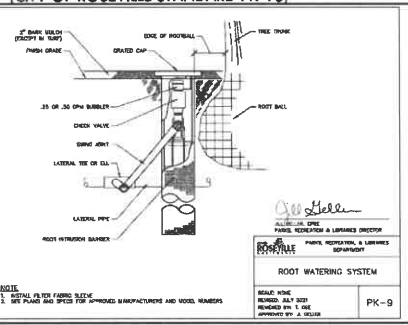
ROSEVILLE PARKS, RECREATION & LIBRARIES DEPARTMENT

VALVE
4" AND LARGER

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK-12

H VALVE 4" AND LARGER (CITY OF ROSEVILLE STANDARD PK-12) NTS



NOTE
1. INSTALL FILTER FABRIC SLEEVE
2. SEE PLANS AND SPECS FOR APPROVED MANUFACTURERS AND MODEL NUMBERS

Jill Gellen
ALLISON GIBSON, DIRECTOR
PARKS, RECREATION & LIBRARIES DEPARTMENT

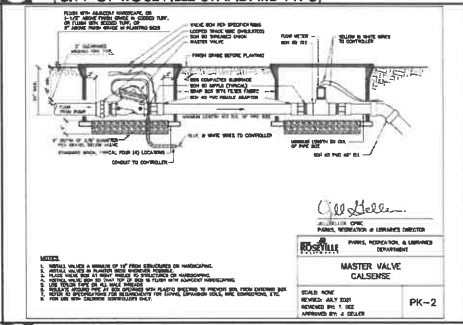
ROSEVILLE PARKS, RECREATION & LIBRARIES DEPARTMENT

ROOT WATERING SYSTEM

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK-9

E ROOT WATERING SYSTEM (CITY OF ROSEVILLE STANDARD PK-9) NTS



NOTES
1. INSTALL VALVES A MINIMUM OF 12" FROM STRUCTURES OR HANDICAPPING.
2. INSTALL VALVES IN PLANTER BEDS WHENEVER POSSIBLE.
3. INSTALL TOP OF VALVE BOX TO "FINISH GRADE" IN PLANTING AREAS.
4. USE TOLLING LINE ON ALL MANUAL VALVES.
5. LOCATE VALVES IN GRASS/GROUNDCOVER AREAS WHENEVER POSSIBLE.
6. INSULATE AROUND PIPE AT SIDE OPENINGS WITH PLASTIC SHEETING TO PREVENT SOIL FROM ENTERING BOX.
7. REFER TO SPECIFICATIONS FOR REQUIREMENTS FOR TAPING, EXPANSION LOOP, WIRE CONNECTIONS.
8. ALL VALVE BOXES SHALL HAVE STATION #'S PERMANENTLY BURNED ON VALVE BOX LIDS.

Jill Gellen
ALLISON GIBSON, DIRECTOR
PARKS, RECREATION & LIBRARIES DEPARTMENT

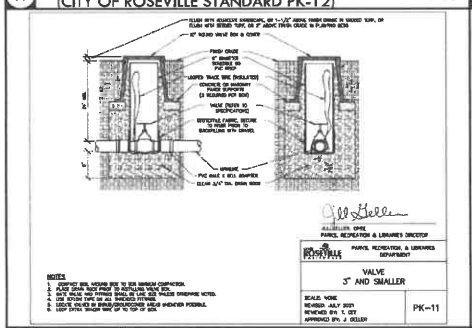
ROSEVILLE PARKS, RECREATION & LIBRARIES DEPARTMENT

MASTER VALVE
CALSENSE

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK-2

B MASTER VALVE AND FLOW SENSOR (CITY OF ROSEVILLE STANDARD PK-2) NTS



NOTES
1. CONTRACT SOIL AROUND BOX TO 95% MAXIMUM COMPACTION.
2. PLACE GRAVEL ROCK PRIOR TO INSTALLING VALVE BOX.
3. USE SQUARE BOXES FOR ALL MANUAL VALVES.
4. USE TOLLING LINE ON ALL MANUAL VALVES.
5. LOCATE VALVES IN GRASS/GROUNDCOVER AREAS WHENEVER POSSIBLE.
6. LOOP EXTRA STRAIGHT WIRE UP TO TOP OF BOX.

Jill Gellen
ALLISON GIBSON, DIRECTOR
PARKS, RECREATION & LIBRARIES DEPARTMENT

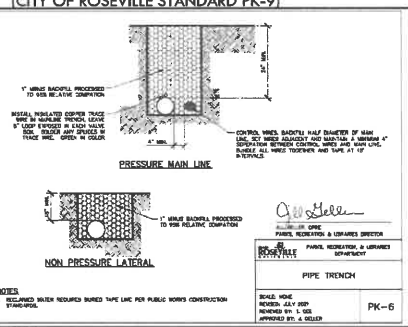
ROSEVILLE PARKS, RECREATION & LIBRARIES DEPARTMENT

VALVE
3" AND SMALLER

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK-11

G VALVE 3" AND SMALLER (CITY OF ROSEVILLE STANDARD PK-11) NTS



PRESSURE MAIN LINE

NON PRESSURE LATERAL

NOTES
1. RECLAIMED WATER REQUIRES BURIED TAPE LINE PER PUBLIC WORKS CONSTRUCTION STANDARDS.

Jill Gellen
ALLISON GIBSON, DIRECTOR
PARKS, RECREATION & LIBRARIES DEPARTMENT

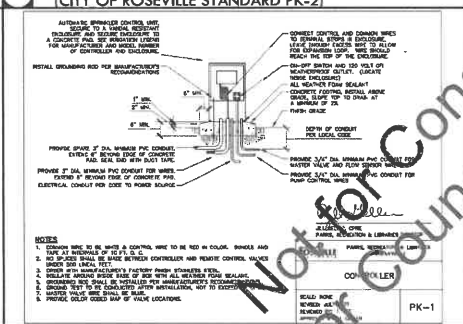
ROSEVILLE PARKS, RECREATION & LIBRARIES DEPARTMENT

PIPE TRENCH

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK-6

D PIPE TRENCH (CITY OF ROSEVILLE STANDARD PK-6) NTS



NOTES
1. COMMON WIRE TO BE WHITE & CONTROL WIRE TO BE RED IN COLOR. BUNDLE AND TAPE AT INTERVALS OF 10 FT. S. C.
2. LEAVE 24" OF SLACK WIRE BETWEEN CONTROLLER AND REMOTE CONTROL VALVES UNDER 500 LINEAL FEET.
3. CONFER WITH MANUFACTURER'S FACTORY FINISH STAINLESS STEEL.
4. INSULATE AROUND INSIDE SIDE OF BOX WITH ALL WEATHER FOAM SEALANT.
5. GROUNDING ROD SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. GROUND "BUS" TO BE INSULATED AFTER INSTALLATION, NOT TO EXCEED 30 VOLTS.
7. MASTER VALVE WIRE SHALL BE BLUE.
8. PROVIDE COLOR CODED MAP OF VALVE LOCATIONS.

Jill Gellen
ALLISON GIBSON, DIRECTOR
PARKS, RECREATION & LIBRARIES DEPARTMENT

ROSEVILLE PARKS, RECREATION & LIBRARIES DEPARTMENT

CONTROLLER

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK-1

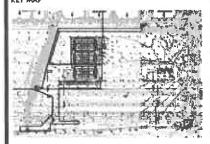
A IRRIGATION CONTROLLER (CITY OF ROSEVILLE STANDARD PK-1) NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1643 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.5554
fax: 916.415.5525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK A. BRENNER
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP



SHEET TITLE
IRRIGATION DETAILS

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/[illegible]
75% SUBMITTAL	[illegible]
100% SUBMITTAL	03/30/22

NO	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY: VDI
CHECKED BY: CS
DATE ISSUED: 05/20/2022
SCALE:
PROJ. NO.: 2014500
SHEET NO.: D6.1 OF SHEETS

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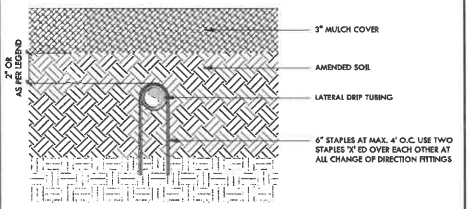
DETAIL NOT USED

I

F

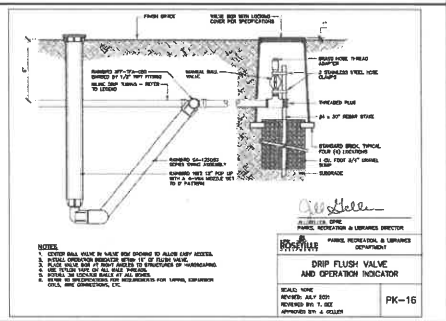
DRIP TUBING LATERAL - IN PLANTER NTS

SECTION



C

DRIP FLUSH VALVE AND OPERATION INDICATOR (CITY OF ROSEVILLE STANDARD PK-16) NTS



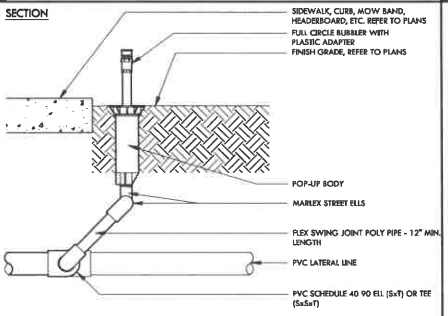
DETAIL NOT USED

H

E

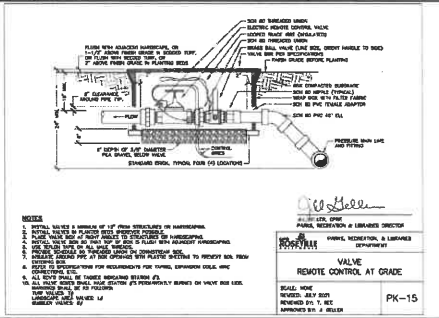
POP UP BUBBLER NTS

SECTION



B

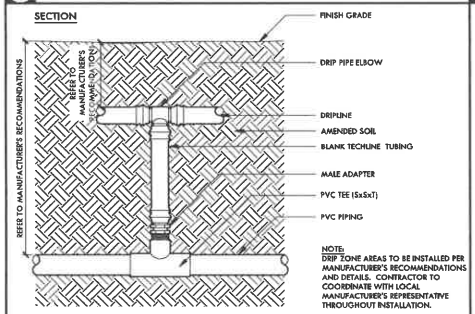
REMOTE CONTROL VALVE (CITY OF ROSEVILLE STANDARD PK-15) NTS



G

TECHLINE START CONNECTION (PVC TO TEE) NTS

SECTION

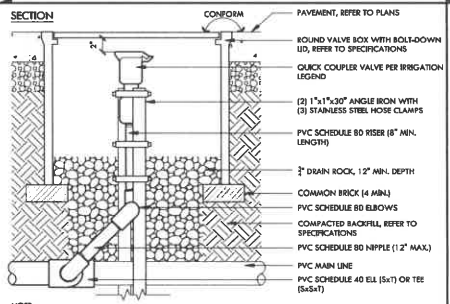


NOTE:
DRIP ZONE AREAS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND DETAILS. CONTRACTOR TO COORDINATE WITH LOCAL MANUFACTURER'S REPRESENTATIVE THROUGHOUT INSTALLATION.

D

QUICK COUPLER VALVE - IN PAVEMENT NTS

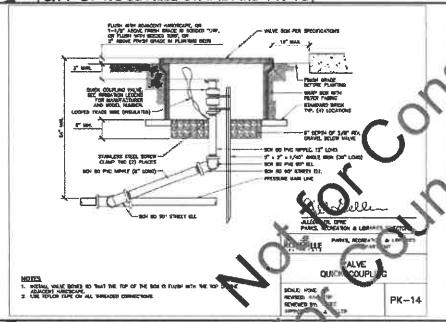
SECTION



NOTE:
VALVE TO HAVE 2" MIN. CLEARANCE FROM LID BOTTOM TO TOP OF VALVE CAP.

A

QUICK COUPLING VALVE (CITY OF ROSEVILLE STANDARD PK-14) NTS



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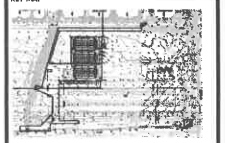
www.VerdeDesign.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP



SHEET TITLE
IRRIGATION DETAILS

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/31/21
75% SUBMITTAL	01/14/22
100% SUBMITTAL	03/30/22

NO.	REVISIONS	DATE
1		
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3		
4		
5		
6		

DRAWN BY	CHECKED BY
VDI	CS
DATE ISSUED	SCALE
05/20/2022	
PROJ. NO.	
2014500	
SHEET NO.	
D6.2 OF SHEETS	

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IRRIGATION DETAILS

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H

E

C



NOTES:
1. SCORE ROOT BALL AND CUT GIRDLING ROOTS ON ALL FOUR SIDES OF ROOT BALL.
2. FOR LAWN AREAS PROVIDE A 3' DIA. AREA RING OF BARK.
3. TREES FURNISHED IN #15 NURSERY CONTAINERS REQUIRE 2" DIA. STAKES. TREES LESS THAN 8' IN HEIGHT REQUIRE AN 8' STAKE. TREES 8' OR GREATER IN HEIGHT REQUIRE A 10' STAKE. TREES FURNISHED IN 24" BOXES REQUIRE 3" DIA. BY 10' LONG STAKES
4. INSTALL 2 ARBOR TIES, AT 2/3 OF TREE HEIGHT AND 2 ARBOR TIES AT 1/3 OF TREE HEIGHT.
5. ALL TREE STAKES SHALL BE INSERTED INTO THE GROUND TO A MINIMUM DEPTH OF 18".
6. TREES TO BE STRUCTURALLY PRUNED BEFORE PLANTING. ESTABLISH A CENTRAL LEADER AND REDUCE OR REMOVE CODOMINANT LEADERS.

ALLISON, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

PARKS, RECREATION & LIBRARIES DEPARTMENT

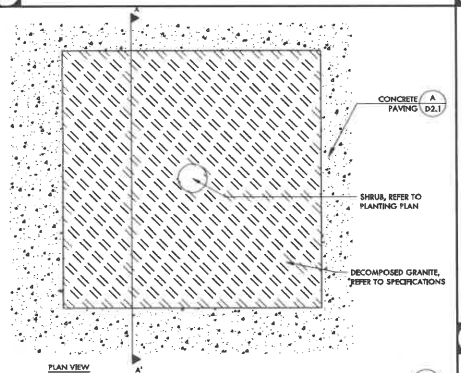
TREE PLANTING

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. ERZ
APPROVED BY: A. SELLER

PK-20

C TREE PLANTING (CITY OF ROSEVILLE STANDARD PK-20) NTS

G



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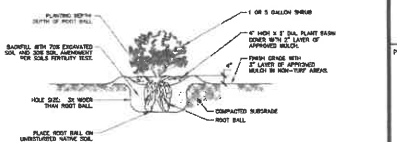


ALLISON, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

PARKS, RECREATION, & LIBRARIES DEPARTMENT

SHRUB PLANTING

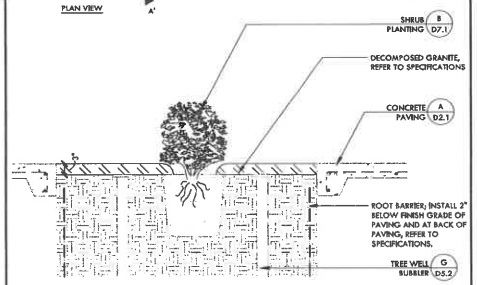
SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. ERZ
APPROVED BY: A. SELLER

PK-18

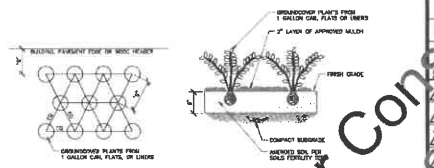
NOTES:
1. AMENDMENT SHALL BE CONSISTENT WITH SOILS FERTILITY TEST.
2. PLANTING AREAS SHALL BE TREATED WITH PRE-EMERGENT PRIOR TO PLANTING TO PREVENT GERMINATION OF WEED SEEDS.
3. SCORE ROOT BALL IN NARROW LOCATIONS.

B SHRUB PLANTING (CITY OF ROSEVILLE STANDARD PK-18) NTS

F



D PLANT WELL NTS



ALLISON, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

PARKS, RECREATION & LIBRARIES DEPARTMENT

GROUNDCOVER PLANTING

SCALE: NONE
REVISED: AUGUST 2021
REVIEWED BY: T. ERZ
APPROVED BY: A. SELLER

PK-17

NOTES:
1. "X" REFERS TO PLANT SPACING. SEE PLANT TABLE ON CONSTRUCTION DOCUMENTS.

A GROUNDCOVER PLANTING (CITY OF ROSEVILLE STANDARD PK-17) NTS

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Folsom, CA 95630
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fax: 916.415.5525
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REGISTERED LANDSCAPE ARCHITECT
MARK S. BRUNSON
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

KEY MAP

SHEET TITLE
PLANTING DETAILS

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/31/21
75% SUBMITTAL	01/14/22
100% SUBMITTAL	03/30/22

NO	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY: VDI
CHECKED BY: CS
DATE ISSUED: 05/20/2022
SCALE:
PROJ. NO.: 2014500
SHEET NO.: D7.1 OF SHEETS

PLANTING DETAILS

Not for Construction
For Council Approval

ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

A	AMPERES
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
BC	BARE COPPER
C	CONDUIT
CB	CIRCUIT BREAKER
CT	CURRENT TRANSFORMER
CU	COPPER
EMT	ELECTRICAL METALLIC TUBING
F	FUSE
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
M	MOTOR
MTD	MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
OS	OCCUPANCY SENSOR
PB	PULL BOX
PH	PHASE
PVC	POLY-VINYL-CHLORIDE
QTY	QUANTITY
REQD	REQUIRED
RSC	RIGID STEEL CONDUIT
S	SWITCH
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W/O	WITHOUT
W	WIRE
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

Connections / Equipment

- HEAVY DUTY FUSED DISCONNECT SWITCH
- JUNCTION BOX
- JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
- WALL-MOUNTED JUNCTION BOX
- MOTOR CONNECTION
- TRANSFORMER

General

- DETAIL NUMBER AND SHEET LOCATION
- KEYED NOTE
- FEEDER TAG

Lighting

- AREA LUMINAIRE POLE TOP MOUNTED WITH POLE AND CONCRETE BASE
- SURFACE OR PENDANT MOUNTED LUMINAIRE
- SURFACE OR PENDANT MOUNTED STRIPLIGHT
- WALL MOUNTED LUMINAIRE

Miscellaneous

- #10 B-27,29,31 — BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
- BRANCH PANEL
- CIRCUIT BREAKER
- DRY TYPE TRANSFORMER
- GROUND ROD
- GROUNDING POINT
- LANDING LUG
- METER WITH CONNECTION
- WALL MOUNTING BRACKET

Raceways

- CONDUIT CONCEALED IN WALL OR CEILING SPACE
- CONDUIT ROUTED BELOW FLOOR / GRADE
- CONDUIT ELLED DOWN
- CONDUIT ELLED UP
- CONDUIT/WIRING CONTINUATION
- CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING
- FLEXIBLE CONDUIT
- PB — PULL BOX

Switches and Receptacles

- DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
  A = ABOVE COUNTER
  B = CLOCK HANGER
  C = FLUSH CEILING MOUNTED
  E = EMERGENCY
  F = ARC FAULT PROTECTED BY BREAKER IN PANEL
  G = GROUND FAULT CIRCUIT INTERRUPTER
  H = HOSPITAL GRADE
  K = CHILD RESISTANT COVER
  L = ISOLATED GROUND
  P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH
  S = SPLIT WIRED
  T = TAMPER RESISTANT SHUTTERED RECEPTACLE
  W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
  ? = DESIGNER DEFINED
- DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
- PHOTO ELECTRIC SWITCH
  D = CONTINUOUS DIMMING PHOTOCELL
  S = SWITCHED PHOTOCELL
- SINGLE POLE SWITCH
  2 = DOUBLE POLE SWITCH
  3 = THREE-WAY SWITCH
  4 = FOUR-WAY SWITCH
  o THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION
  D = DIMMER
  F = FAN SPEED CONTROL
  K = KEY OPERATED SWITCH
  L = LIGHTED HANDLE
  M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD
  P = SWITCH WITH PILOT LIGHT
  S = SENTRY SWITCH
  T = INTERVAL TIMER
  W = WEATHERPROOF SWITCH
  V = LOW VOLTAGE SWITCH
  ? = DESIGNER DEFINED SWITCH

LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	LAMPS	WATTS	COLOR	MOUNTING	NOTES
A	POST TOP REFRACTIVE GLOBE	HADCO RLS4 B B N N 1 A W N N N A 2 N N N N SP1	LED	57	BLACK	POLE	1
B	VANDAL RESISTANT SURFACE MOUNTED RECTANGLE FIXTURE	LUMINAIRE LED SWP610-ADDM-15W-40K-120-CLP-BLK-CAB (FC)	LED	13.4	BLACK	SURFACE	2
T1	2-HEAD, 40' HIGH PICKLEBALL 1-3	MUSCO	2 - 400W LED	830	-	ARM/POLE	3,4
T2	2-HEAD, 40' HIGH PICKLEBALL 1-3	MUSCO	2-400W LED	830	-	ARM/POLE	3,4
T3	2-HEAD, 40' HIGH PICKLEBALL 1-3 1-HEAD, 40' HIGH PICKLEBALL 4-6 1-HEAD, 40' HIGH PICKLEBALL 4-6	MUSCO	2 - 400W LED 1 - 400W LED 1 - 600W LED	1872	-	ARM/POLE	3,4
T4	2-HEAD, 40' HIGH PICKLEBALL 1-3 1-HEAD, 40' HIGH PICKLEBALL 4-6 1-HEAD, 40' HIGH PICKLEBALL 4-6	MUSCO	2 - 400W LED 1 - 400W LED 1 - 600W LED	1872	-	ARM/POLE	3,4
T5	2-HEAD, 40' HIGH PICKLEBALL 4-6 1-HEAD, 40' HIGH PICKLEBALL 7-9 1-HEAD, 40' HIGH PICKLEBALL 7-9	MUSCO	2 - 400W LED 1 - 400W LED 1 - 600W LED	1872	-	ARM/POLE	3,4
T6	2-HEAD, 40' HIGH PICKLEBALL 4-6 1-HEAD, 40' HIGH PICKLEBALL 7-9 1-HEAD, 40' HIGH PICKLEBALL 7-9	MUSCO	2 - 400W LED 1 - 400W LED 1 - 600W LED	1872	-	ARM/POLE	3,4

NOTES:
1. POLE: WINATLEY #TR34 16 DE BLK TXT 30 (DIRECT BURIAL)
2. PROVIDE WITH DIE CAST ALUMINUM BACK BOX.
3. PRECAST CONCRETE BASE PROVIDED BY MUSCO
4. INSTALLATION PER MUSCO INSTRUCTIONS

GENERAL NOTES:
A. THIS LIGHTING SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING ELECTRICAL SPECIFICATIONS.
B. SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED
C. PROVIDE SUBMITTALS THAT INCLUDE LIGHTING FIXTURE, LED, AND DRIVER INFORMATION FOR EACH FIXTURE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.
D. PROVIDE COMMISSIONING OF THE LIGHTING AND LIGHTING CONTROLS IN ACCORDANCE WITH CALIFORNIA TITLE 24 COMMISSIONING REQUIREMENTS.

musco Lighting — Control System Summary

Gibson Park / 208853 - 208853F Master Roseville - Page 5 of 6

SWITCHING SCHEDULE

Field/Zone Description	Zones
Pickleball 1-3	1
Pickleball 4-6	2
Pickleball 7-9	3
Pickleball 10-12	4
Tennis 1-2	5
Tennis 3-4	6
Tennis 5-10	7
Basketball 1-3	8

CONTROL POWER CONSUMPTION
120V Single Phase

VA loading of Musco Supplied Equipment	1411.0 (MEASURED: 1465.0) SEALED: 1110.8

CIRCUIT SUMMARY BY ZONE

POLE	CIRCUIT DESCRIPTION	# OF FIXTURES	# OF DRIVERS	FULL LOAD AMPS	CONTACTOR SIZE (AMPS)	CONTACTOR ID	ZONE
T1	Pickleball 1-3	2	1	1.7	30	C1	1
T2	Pickleball 1-3	2	1	1.7	30	C2	1
T3	Pickleball 1-3	2	1	1.7	30	C3	1
T4	Pickleball 1-3	2	1	1.7	30	C4	1
T5	Pickleball 4-6	2	1	2.3	30	C5	2
T6	Pickleball 4-6	2	1	2.3	30	C6	2
T7	Pickleball 4-6	2	1	2.3	30	C7	2
T8	Pickleball 4-6	2	1	2.3	30	C8	2
T9	Pickleball 7-9	2	1	1.7	30	C9	3
T10	Pickleball 7-9	2	1	1.7	30	C10	3
T11	Pickleball 7-9	2	1	1.7	30	C11	3
T12	Pickleball 10-12	2	1	1.7	30	C12	4
T13	Pickleball 10-12	2	1	1.7	30	C13	4
T14	Pickleball 10-12	2	1	1.7	30	C14	4
T15	Pickleball 10-12	2	1	1.7	30	C15	4
T16	Pickleball 10-12	2	1	2.3	30	C16	4
T17	Tennis 1-2	2	2	4.6	30	C17	5
T18	Tennis 1-2	2	2	4.6	30	C18	5
T19	Tennis 1-2	2	2	4.6	30	C19	5
T20	Tennis 1-2	2	2	4.6	30	C20	5
T21	Tennis 3-4	2	2	4.6	30	C21	6
T22	Tennis 3-4	2	2	4.6	30	C22	6
T23	Tennis 3-4	2	2	4.6	30	C23	6
T24	Tennis 3-4	2	2	4.6	30	C24	6
T25	Tennis 5-10	2	2	4.6	30	C25	7
T26	Tennis 5-10	2	2	4.6	30	C26	7
T27	Tennis 5-10	2	2	4.6	30	C27	7
T28	Tennis 5-10	2	2	4.6	30	C28	7
T29	Tennis 5-10	2	2	4.6	30	C29	7
T30	Tennis 5-10	2	2	4.6	30	C30	7
T31	Basketball 1-3	4	4	6.9	30	C31	8
T32	Basketball 1-3	4	4	6.9	30	C32	8
T33	Basketball 1-3	4	4	6.9	30	C33	8
T34	Basketball 1-3	2	2	4.6	30	C34	8

musco Lighting — Control System Summary

Gibson Park / 208853 - 208853F Master Roseville - Page 5 of 6

PANEL SUMMARY

BUSSING #	CONTROL MODULE LOCATION	CONTACTOR ID	CIRCUIT DESCRIPTION	FULL LOAD AMPS	DISTRIBUTION PANEL ID (IF OTHERWISE)	CIRCUIT BREAKER POSITION (IF OTHERWISE)
1	1	C1	Pole T1	1.71		
1	1	C2	Pole T2	1.71		
1	1	C3	Pole T3	1.71		
1	1	C4	Pole T4	1.71		
1	1	C5	Pole T5	2.30		
1	1	C6	Pole T6	2.30		
1	1	C7	Pole T7	2.30		
1	1	C8	Pole T8	2.30		
1	1	C9	Pole T9	1.71		
1	1	C10	Pole T10	1.71		
1	1	C11	Pole T11	1.71		
1	1	C12	Pole T12	1.71		
2	1	C13	Pole T13	1.71		
2	1	C14	Pole T14	1.71		
2	1	C15	Pole T15	1.71		
2	1	C16	Pole T16	1.71		
2	1	C17	Pole T17	3.97		
2	1	C18	Pole T18	3.97		
2	1	C19	Pole T19	3.97		
2	1	C20	Pole T20	3.97		
2	1	C21	Pole T21	3.97		
2	1	C22	Pole T22	3.97		
2	1	C23	Pole T23	3.97		
3	1	C24	Pole T24	3.97		
3	1	C25	Pole T25	3.97		
3	1	C26	Pole T26	3.97		
3	1	C27	Pole T27	3.97		
3	1	C28	Pole T28	3.97		
3	1	C29	Pole T29	3.97		
3	1	C30	Pole T30	3.97		
4	1	C31	Pole T31	3.97		
4	1	C32	Pole T32	3.97		
4	1	C33	Pole T33	3.97		
4	1	C34	Pole T34	3.97		
4	1	C35	Pole B1	6.90		
4	1	C36	Pole B2	6.90		
4	1	C37	Pole T35	3.97		
4	1	C38	Pole T36	3.97		

ZONE SCHEDULE

ZONE	SELECTOR SWITCH	ZONE DESCRIPTION	CIRCUIT DESCRIPTION POLE ID	CONTACTOR ID
Zone 1	1	Pickleball 1-3	T1	C1
			T2	C2
			T3	C3
			T4	C4

musco Lighting — Control System Summary

Gibson Park / 208853 - 208853F Master Roseville - Page 6 of 6

ZONE SCHEDULE

ZONE	SELECTOR SWITCH	ZONE DESCRIPTION	CIRCUIT DESCRIPTION POLE ID	CONTACTOR ID
Zone 2	2	Pickleball 4-6	T5	C5
			T6	C6
			T7	C7
			T8	C8
Zone 3	3	Pickleball 7-9	T9	C9
			T10	C10
			T11	C11
			T12	C12
Zone 4	4	Pickleball 10-12	T13	C13
			T14	C14
			T15	C15
			T16	C16
Zone 5	5	Tennis 1-2	T17	C17
			T18	C18
			T19	C19
			T20	C20
Zone 6	6	Tennis 3-4	T21	C21
			T22	C22
			T23	C23
			T24	C24
Zone 7	7	Tennis 5-10	T25	C25
			T26	C26
			T27	C27
			T28	C28
Zone 8	8	Basketball 1-3	T29	C29
			T30	C30
			B1	C31
			B2	C32
			T35	C33
			T36	C34

1 SPORT LIGHTING REFERENCE

NO SCALE

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1643 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.5554
fax: 916.415.5525
www.VerdeDesignInc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER — JONATHAN A. KING — No. 18 — CIVIL — STATE OF CALIFORNIA — PRELIMINARY

Date Signed: 5/19/22

CONSULTANT

Stanton ENGINEERING
PROJECT 21040
11344 Coloma Rd, Suite 445
Gold River, CA 95670
TEL 916.288.8250
www.stantoneng.com

SHEET TITLE

ELECTRICAL COVER SHEET

PROJECT NAME

GIBSON PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/23/21
75% SUBMITTAL	12/17/21
100% SUBMITTAL	03/30/22

NO	REVISIONS	DATE
1		
2		
3		
4		
5		

DRAWN BY	CHECKED BY
JL/JC	NH
DATE ISSUED: 05/20/2022	SCALE
PROJ. NO.: 2014500	
SHEET NO.: E0.1 OF SHEETS	

ELECTRICAL COVER SHEET

Not for Construction
For Council Approval

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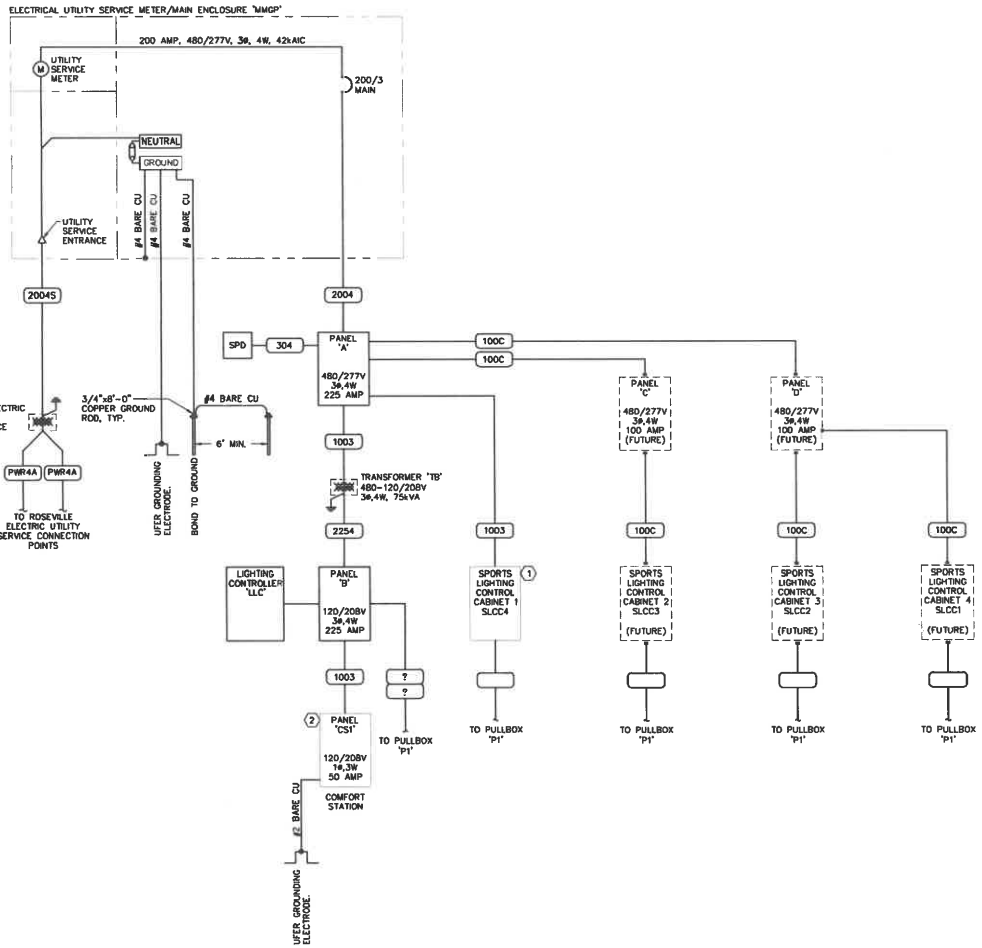
DRAWING NAME: C:\Users\JCampbell\appdata\local\temp\AcPublish_10500\21040_E0.1.dwg
PLOT DATE: 05-19-22 PLOTTED BY: JCampbell



1 ELECTRICAL UTILITY SERVICE ONE-LINE DIAGRAM

NO SCALE

SHEET KEYNOTES

1 PROVIDED BY SPORTS LIGHTING EQUIPMENT VENDOR AND INSTALLED BY CONTRACTOR.

2 PROVIDED BY AND INSTALLED BY COMFORT STATION CONTRACTOR. ELECTRICAL CONNECTION BY ELECTRICAL CONTRACTOR.

INCOMING ELECTRICAL SERVICE DIVISION OF RESPONSIBILITY

	ELEC. CONTR.	UTILITY CO.		ELEC. CONTR.	UTILITY CO.
PRIMARY CONDUIT	☒	☐	SECONDARY CONDUIT	☒	☐
PRIMARY CONDUCTORS	☐	☒	SECONDARY CONDUCTORS	☒	☐
TRANSFORMER	☐	☒	C/T ENCLOSURE	☒	☐
TRANSFORMER PAD	☒	☐	C/T's	☐	☒
PRIMARY GROUNDING	☐	☒	METER BASE	☒	☐
BOLLARDS	☒	☐	METER	☐	☒
TRANSFORMER CONNECTIONS	☐	☒	METER GROUNDING	☒	☐
ELECTRIC ROOM DOOR LOCK BOX (OBTAIN FROM POWER COMPANY)	☐	☐			

NOTES:
1. CONTACT AND COORDINATE ALL REQUIREMENTS AND RESPONSIBILITIES WITH SERVING UTILITY COMPANIES PRIOR TO SUBMITTING BID.
2. ALL SERVICE INSTALLATION WORK SHALL BE IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE SERVING UTILITIES.

POWER UTILITY CONTACT:
JOSEPH WHITNEY
ROSEVILLE ELECTRIC
2090 HILLTOP CIRCLE
ROSEVILLE, CA 95747
PHONE: (916) 774-5691

STANTON ENGINEERING HAS CONTACTED THE UTILITIES BUT HAS NOT RECEIVED IN WRITING THE FINAL REQUIREMENTS FROM THE POWER UTILITY. THESE DRAWINGS INDICATE OUR BEST INTERPRETATION OF THESE REQUIREMENTS. PRIOR TO ANY CONSTRUCTIONS CONTACT THE UTILITIES AND OBTAIN IN WRITING THEIR REQUIREMENTS.

LOAD CALCULATION

PICKLEBALL LIGHTING		
PHASE 1 LIGHTING	=	7.5 kW
FUTURE LIGHTING	=	8.2 kW
FUTURE TENNIS COURT LIGHTING	=	34.6 kW
FUTURE BASKETBALL COURT LIGHTING	=	9.6 kW
SECURITY LIGHTING		
PHASE 1 LIGHTING	=	0.1 kW
FUTURE LIGHTING	=	0.3 kW
SHADE STRUCTURE LIGHTING		
PHASE 1 LIGHTING	=	0.1 kW
FUTURE LIGHTING	=	0.2 kW
SUB-TOTAL	=	60.6 kW
+25% CONTINUOUS	=	15.2 kW
SUB-TOTAL A	=	75.8 kW
FIELD RECEPTACLES		
SHADE STRUCTURES	=	0.7 kW
FUTURE SHADE STRUCTURES	=	1.8 kW
FUTURE TENNIS COURTS	=	1.8 kW
SUB-TOTAL B	=	4.3 kW
COMFORT STATION	=	4.0 kW
FUTURE COMFORT STATION	=	15.5 kW
SUB-TOTAL C	=	19.5 kW
MISCELLANEOUS LOADS		
FUTURE IRRIGATION BOOSTER PUMP (7-1/2 HP @ 208V, 3PH)	=	5.3 kW
+25% LARGEST MOTOR	=	1.3 kW
IRRIGATION CONTROLLER	=	0.4 kW
SUB-TOTAL D	=	7.0 kW
SUB-TOTAL A	=	75.8 kW
SUB-TOTAL B	=	4.3 kW
SUB-TOTAL C	=	19.5 kW
SUB-TOTAL D	=	7.0 kW
TOTAL	=	106.5 kW
480 VOLT, 3-PHASE, 4-WIRE	=	128.1 AMPS
200 AMP SERVICE SIZE REQUIRED		

Not for Construction
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STAMP

JONATHAN A. [illegible] No. [illegible] PROFESSIONAL ENGINEER ELECTRICAL STATE OF CALIFORNIA

PRELIMINARY

Date Signed: 5/19/22

CONSULTANT

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ELECTRICAL ONE-LINE DIAGRAM

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SUBMITTAL	DATE
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NO.	REVISIONS	DATE
1		
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6		

DRAWN BY	CHECKED BY
JL/JC	NH
DATE ISSUED: 05/20/2022	SCALE
PROJ. NO.: 2014500	
SHEET NO.: E0.2 OF SHEETS	

ELECTRICAL ONE-LINE DIAGRAM

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DRAWING NAME: S:\2021\21040 Gibson Park Phase 1\CAD\Elec\21040_E0.2.dwg
PLOT DATE: 05-19-22 PLOTTED BY: JCampbell

FEEDER SCHEDULE

Key

A, C, F, S, X
A = Existing conduit
C = Conduit only
F = Future connection
S = Service secondary
X = Separately derived system

NOTE: WHEN A CIRCUIT CONDUCTOR #8 OR LARGER IS PROTECTED BY A 20A OR 30A OVER CURRENT PROTECTION, THE GROUND CONDUCTOR MUST MATCH THE CIRCUIT CONDUCTOR SIZE

75C	ONE 3/4" EMPTY CONDUIT WITH PULL CORD
10C	ONE 1" EMPTY CONDUIT WITH PULL CORD
20C	ONE 2" EMPTY CONDUIT WITH PULL CORD
30C	ONE 3" EMPTY CONDUIT WITH PULL CORD
40C	ONE 4" EMPTY CONDUIT WITH PULL CORD
202	2 #12 CU, 1 #12 CU GND., IN 3/4" C.
203	3 #12 CU, 1 #12 CU GND., IN 3/4" C.
204	4 #12 CU, 1 #12 CU GND., IN 1" C.
502	2 #8 CU, 1 #10 CU GND., IN 1" C.
504	4 #8 CU, 1 #10 CU GND., IN 1" C
652	2 #6 CU, 1 #10 CU GND., IN 1" C
653	3 #6 CU, 1 #10 CU GND., IN 1" C
656	6 #6 CU, 1 #10 CU GND., IN 1-1/4" C
1003	3 #3 CU, 1 #8 CU GND., IN 1-1/4" C.
2004	4 #3/0 CU, 1 #6 CU GND., IN 2" C.
2004S	4 #3/0 CU, IN 2" C.
2254	4 #4/0 CU, 1 #2 CU GND., IN 2-1/2" C.
651B	18 #6 CU, 1 #6 CU GND., IN 2" C.
653B	36 #6 CU, 1 #6 CU GND., IN 3" C.
65F1	3" EMPTY CONDUIT WITH PULL CORD (FUTURE CONTACTORS C13-C26)
65F2	3" EMPTY CONDUIT WITH PULL CORD (FUTURE CONTACTORS C27-C33)
65F3	2" EMPTY CONDUIT WITH PULL CORD (FUTURE CONTACTORS C19-23, 25, 26)
65F3A	2" EMPTY CONDUIT, STUB OUT TO LIMIT OF WORK AND CAP (FUTURE CONTACTORS C19-23, 25, 26)
65F4	2" EMPTY CONDUIT WITH PULL CORD (FUTURE CONTACTORS C27-C33)
65F4A	2" EMPTY CONDUIT, STUB OUT TO LIMIT OF WORK AND CAP (FUTURE CONTACTORS C27-C33)
65F5	2" EMPTY CONDUIT WITH PULL CORD (FUTURE CONTACTORS C34-C37)
65F5A	2" EMPTY CONDUIT, STUB OUT TO LIMIT OF WORK AND CAP (FUTURE CONTACTORS C34-C37)
65F6	1" EMPTY CONDUIT, STUB OUT TO LIMIT OF WORK AND CAP (FUTURE CONTACTOR C13 / POLE T9)
65F7	1" EMPTY CONDUIT, STUB OUT TO LIMIT OF WORK AND CAP (FUTURE CONTACTOR C14 / POLE T10)
65F8	1" EMPTY CONDUIT, STUB OUT TO LIMIT OF WORK AND CAP (FUTURE CONTACTOR C15 / POLE T11)
65F9	1" EMPTY CONDUIT, STUB OUT TO LIMIT OF WORK AND CAP (FUTURE CONTACTOR C16 / POLE T12)
65F10	1" EMPTY CONDUIT, STUB OUT TO LIMIT OF WORK AND CAP (FUTURE CONTACTOR C17 / POLE T13)
65F12	1" EMPTY CONDUIT, STUB OUT TO LIMIT OF WORK AND CAP (FUTURE CONTACTOR C12 / POLE T8)
65F13	1" EMPTY CONDUIT, STUB OUT TO LIMIT OF WORK AND CAP (FUTURE CONTACTOR C24 / POLE T18)
65F14	1" EMPTY CONDUIT, STUB OUT TO LIMIT OF WORK AND CAP (FUTURE CONTACTOR C18 / POLE T14)
65F15	3" EMPTY CONDUIT WITH PULL CORD (FUTURE CONTACTORS C34-C37)
65F16	2-2" EMPTY CONDUIT, STUB OUT TO LIMIT OF WORK AND CAP (FUTURE SECURITY/PARKING LIGHTING)
230F1	2" EMPTY CONDUIT WITH PULL CORD (FUTURE COMFORT STATION 'CS2')
230F1A	2" EMPTY CONDUIT, STUB OUT TO LIMIT OF WORK AND CAP (FUTURE COMFORT STATION 'CS2')
PWR4A	4" EMPTY PRIMARY CONDUIT, VERIFY REQUIREMENTS WITH ROSEVILLE ELECTRIC

PANEL: A — ENCLOSURE: NEMA 12 — AIC:
VOLTAGE: 480V 3PH 3W — MOUNTING: SURFACE — MAIN: MLO, 225A BUS

LOAD	VA	BKR	C/R	PH	C/R	BKR	VA	LOAD
CONTACTOR # C1	478	20/3	1	A	2	20/3	478	CONTACTOR # C2
" "	478	"	3	B	4	"	478	" "
" "	478	"	5	C	6	"	478	" "
CONTACTOR # C3	478	20/3	7	A	8	20/3	478	CONTACTOR # C4
" "	478	"	9	B	10	"	478	" "
" "	478	"	11	C	12	"	478	" "
CONTACTOR # C5	595	20/3	13	A	14	20/3	595	CONTACTOR # C6
" "	595	"	15	B	16	"	595	" "
" "	595	"	17	C	18	"	595	" "
CONTACTOR # C7	595	20/3	19	A	20	20/3	595	CONTACTOR # C8
" "	595	"	21	B	22	"	595	" "
" "	595	"	23	C	24	"	595	" "
CONTACTOR C9	478	20/3	25	A	26	20/3	478	CONTACTOR # C10
" "	478	"	27	B	28	"	478	" "
" "	478	"	29	C	30	"	478	" "
CONTACTOR # C11	478	20/3	31	A	32	20/3	478	CONTACTOR # C12
" "	478	"	33	B	34	"	478	" "
" "	478	"	35	C	36	"	478	" "
SECURITY LIGHTING	120	30/1	37	A	38			SPACE
" "		30/1	39	B	40			" "
" "		30/1	41	C	42			" "
FUTURE PANEL 'C'	14320	100/3	43	A	44	100/3	14280	FUTURE PANEL 'D'
" "	14320	"	45	B	46	"	14280	" "
" "	14320	"	47	C	48	"	14280	" "
TRANSFORMER 'TB'	6900	125/3	49	A	50	30/3	10	SURGE SUPPRESSION DEVICE
" "	17500	"	51	B	52	"	10	" " "
" "	18300	"	53	C	54	"	10	" " "
KVA FOR PHASE A	41.8						151.0	AMPERES
KVA FOR PHASE B	52.3						188.9	AMPERES
KVA FOR PHASE C	53.1						191.7	AMPERES
TOTAL KVA	147.3							

PANEL: B — ENCLOSURE: NEMA 12 — AIC: 22,000
VOLTAGE: 208Y/120V 3PH 4W — MOUNTING: SURFACE — MAIN: 225/3: 225A BUS

LOAD	VA	BKR	C/R	PH	C/R	BKR	VA	LOAD
(F) SLCC4 CONTROL POWER	500	20/1	1	A	2	20/1	500	(F) SLCC3 CONTROL POWER
(F) SLCC2 CONTROL POWER	500	20/1	3	B	4	20/1	500	SLCC1 CONTROL POWER
ELECT. ROM LTS/RECEPTS	220	20/1	5	C	6	-	-	SPACE
SHADE STRUCTURE RECEPTS	1080	20/1	7	A	8	20/1	900	(F) SHADE STRUCTURE RECEPS
SHADE STRUCTURE LTG	161	20/1	9	B	10	20/1	100	(F) SHADE STRUCTURE LTG
SPACE	-	-	11	C	12	20/1		SPARE
(F) TENNIS COURT RECEPTS	900	20/1	13	A	14	20/1		SPARE
(F) TENNIS COURT RECEPTS	900	20/1	15	B	16	20/1		SPARE
SPACE	-	-	17	C	18	-	-	SPACE
SECURITY LIGHTING	100	20/1	19	A	20	20/1	300	(F) SECURITY LIGHTING
LTG CNTL CAB 'LCC'	100	20/1	21	B	22	20/1		SPARE
SPARE		20/1	23	C	24	20/1		SPARE
SPACE	-	-	25	A	26	-	-	SPACE
SPACE	-	-	27	B	28	-	-	SPACE
IRRIGATION CONTROLLER	120	20/1	29	C	30	50/2	2631	(F) IRRIGATION BOOSTER PUMP
SPACE	-	-	31	A	32	-	2631	" " " "
COMFORT STATION PANEL 'CS1'	2430	50/2	33	B	34	100/2	7600	(F) COMFORT STATION PNL 'CS2'
" " " "	2280	-	35	C	36	-	7600	" " " "
KVA FOR PHASE A	8.9						57.6	AMPERES
KVA FOR PHASE B	12.3						102.4	AMPERES
KVA FOR PHASE C	12.9						107.1	AMPERES
TOTAL KVA	32.1							

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PRELIMINARY — NOT FOR CONSTRUCTION — REGISTERED PROFESSIONAL ENGINEER — ELECTRICAL — STATE OF CALIFORNIA

Date Signed: 5/19/22

CONSULTANT

Stanton ENGINEERING
PROJECT 21040
11344 Coloma Rd, Suite 445
Gold River, CA 95670
TEL 916.288.8250
www.stantoneng.com

SHEET TITLE
ELECTRICAL SCHEDULES

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/[illegible]
75% SUBMITTAL	[illegible]
100% SUBMITTAL	05/[illegible]/22

NO	REVISIONS	DATE
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DRAWN BY: JL/JC
CHECKED BY: NH
DATE ISSUED: 05/20/2022
SCALE:
PROJ. NO.: 2014500
SHEET NO.: E0.3 OF SHEETS
ELECTRICAL PANEL SCHEDULES

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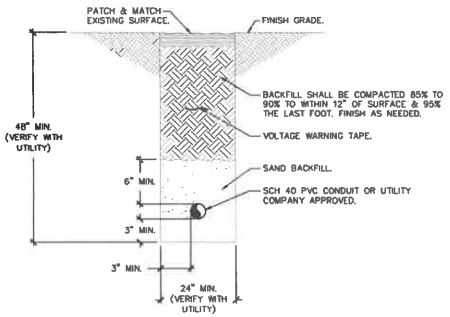
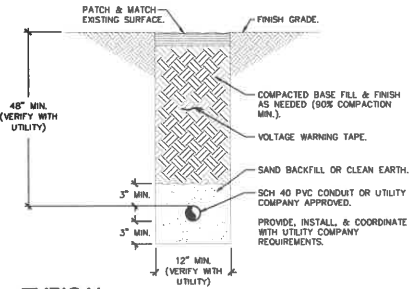
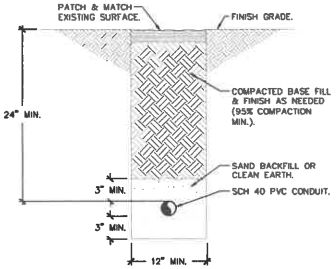


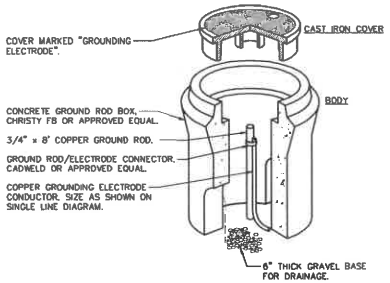
1 TYPICAL PRIMARY SERVICE TRENCH DETAIL
NO SCALE



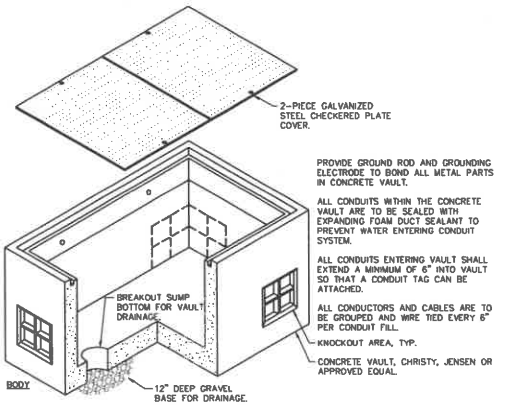
2 TYPICAL SECONDARY SERVICE TRENCH DETAIL
NO SCALE



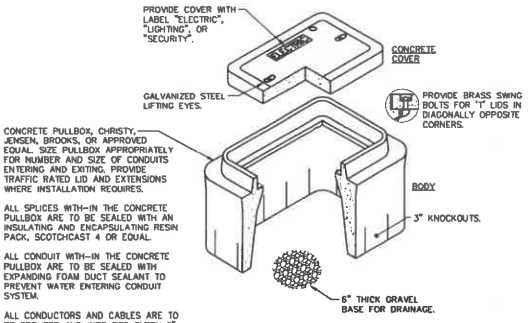
3 TYPICAL TRENCH DETAIL
NO SCALE



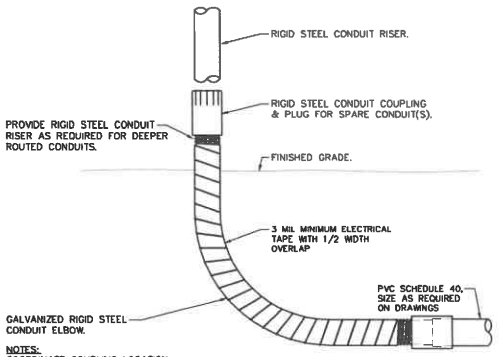
4 TYPICAL CONCRETE GROUND ROD BOX
NO SCALE



5 TYPICAL CONCRETE VAULT DETAIL
NO SCALE

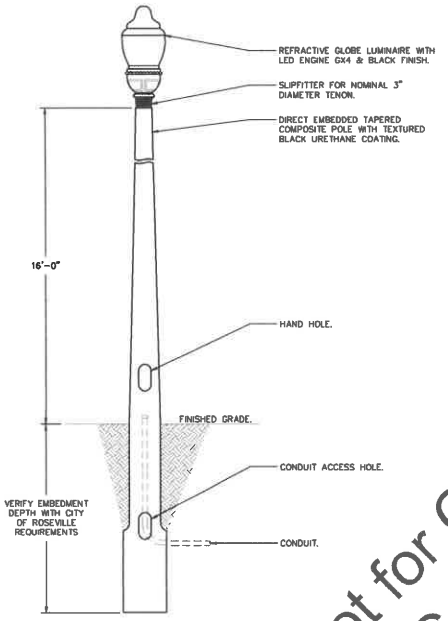


6 TYPICAL CONCRETE PULLBOX DETAIL
NO SCALE



NOTES:
COORDINATE COUPLING LOCATION TO MATCH LOCATION OF FUTURE EQUIPMENT WHERE REQUIRED.

7 CONDUIT STUB-UP DETAIL
NO SCALE



8 POLE MOUNTED AREA LIGHT DETAIL
NO SCALE

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CIVIL ENGINEERING
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1843 Iron Point Rd. Suite 140
Folsom, CA 95630
ph. 916.415.5554
fax. 916.415.5523
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CONSULTANT

Stanton ENGINEERING
PROJECT 21840
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Gold River, CA 95670
TEL 916.288.8250
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SHEET TITLE
ELECTRICAL DETAILS 1

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/30/21
75% SUBMITTAL	01/07/22
100% SUBMITTAL	03/30/22

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JL/JC	NH
DATE ISSUED 05/20/2022	SCALE
PROJ. NO. 2014500	
SHEET NO. E0.4 OF SHEETS	

ELECTRICAL DETAILS 1

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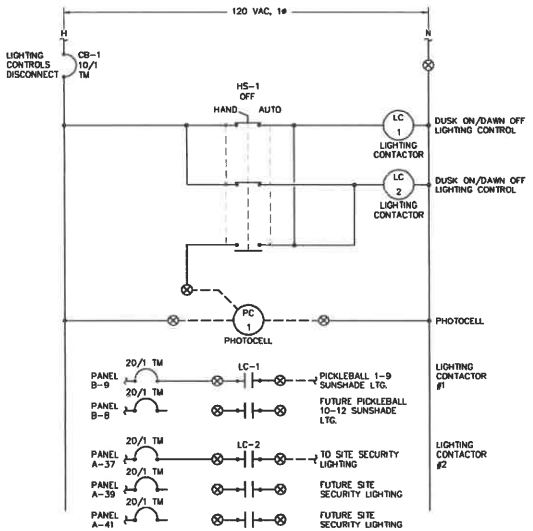
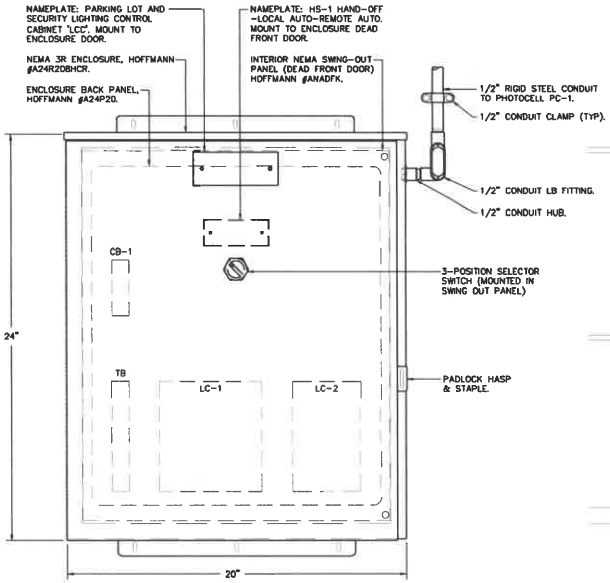
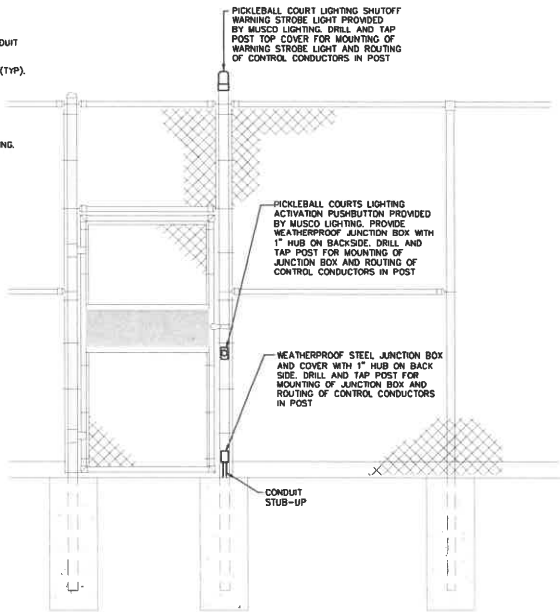


1 LIGHTING CONTROLS WIRING DIAGRAM
NO SCALE

LCC EQUIPMENT LIST		
TAG	EQUIPMENT	MANUFACTURER/MODEL
PC-1	PHOTOCELL	INTERMATIC / K 4136M OR EQUAL
HS-1	SELECTOR SWITCH (3-POSITION)	SQUARE D / CLASS 9001K OR EQUAL
LC-1	LIGHTING CONTACTOR (6-POLE, 30 AMP)	SQUARE D / CLASS 8903, TYPE L OR EQUAL
LC-2	LIGHTING CONTACTOR (2-POLE, 30 AMP)	SQUARE D / CLASS 8903, TYPE L OR EQUAL
CB-1	MINIATURE CIRCUIT BREAKER (10 AMP, 120 VAC)	SQUARE D / QOB



2 LIGHTING CONTROL CABINET 'LCC'
NO SCALE



3 SPORTS LIGHTING CONTROL STATION
NO SCALE

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www.VerdeDesignInc.com

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CONSULTANT

Stanton ENGINEERING
PROJECT 21040
11344 Coloma Rd, Suite 445
Gold River, CA 95670
TEL 916.269.8256
www.stantoneng.com

SHEET TITLE
ELECTRICAL DETAILS 2

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2[illegible]
75% SUBMITTAL	01/[illegible]
100% SUBMITTAL	05/20/22

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E0.5 OF SHEETS

ELECTRICAL DETAILS 2

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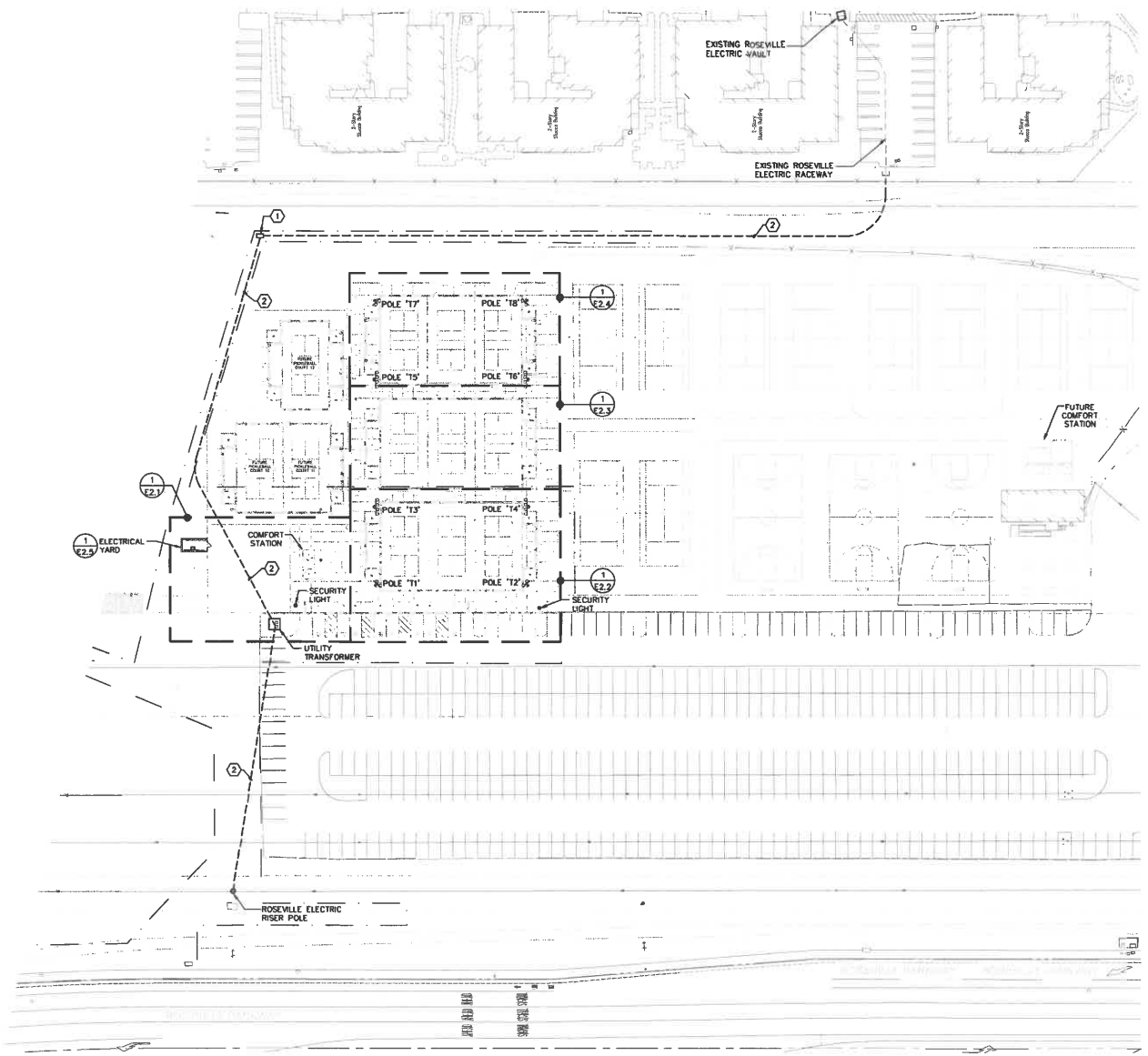

1 OVERALL ELECTRICAL SITE PLAN
SCALE: 1"=40'-0"

0 40' 80'

SHEET KEYNOTES

1 ROSEVILLE ELECTRICAL PRIMARY VAULT.

2 ROSEVILLE ELECTRIC PRIMARY UNDERGROUND CONDUIT. SEE TYPICAL PRIMARY TRENCH DETAIL ON SHEET E04.

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fax: 916.415.6525
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Stanton ENGINEERING
PROJECT
11344 Coloma Rd, Suite 445
Gold River, CA 95670
TEL 916.288.8250
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SHEET TITLE

OVERALL ELECTRICAL SITE PLAN

PROJECT NAME

GIBSON PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2[illegible]
75% SUBMITTAL	[illegible]/17/22
100% SUBMITTAL	05/20/22

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05/20/2022	

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SHEET NO. E1.1 OF SHEETS

OVERALL ELECTRICAL SITE PLAN

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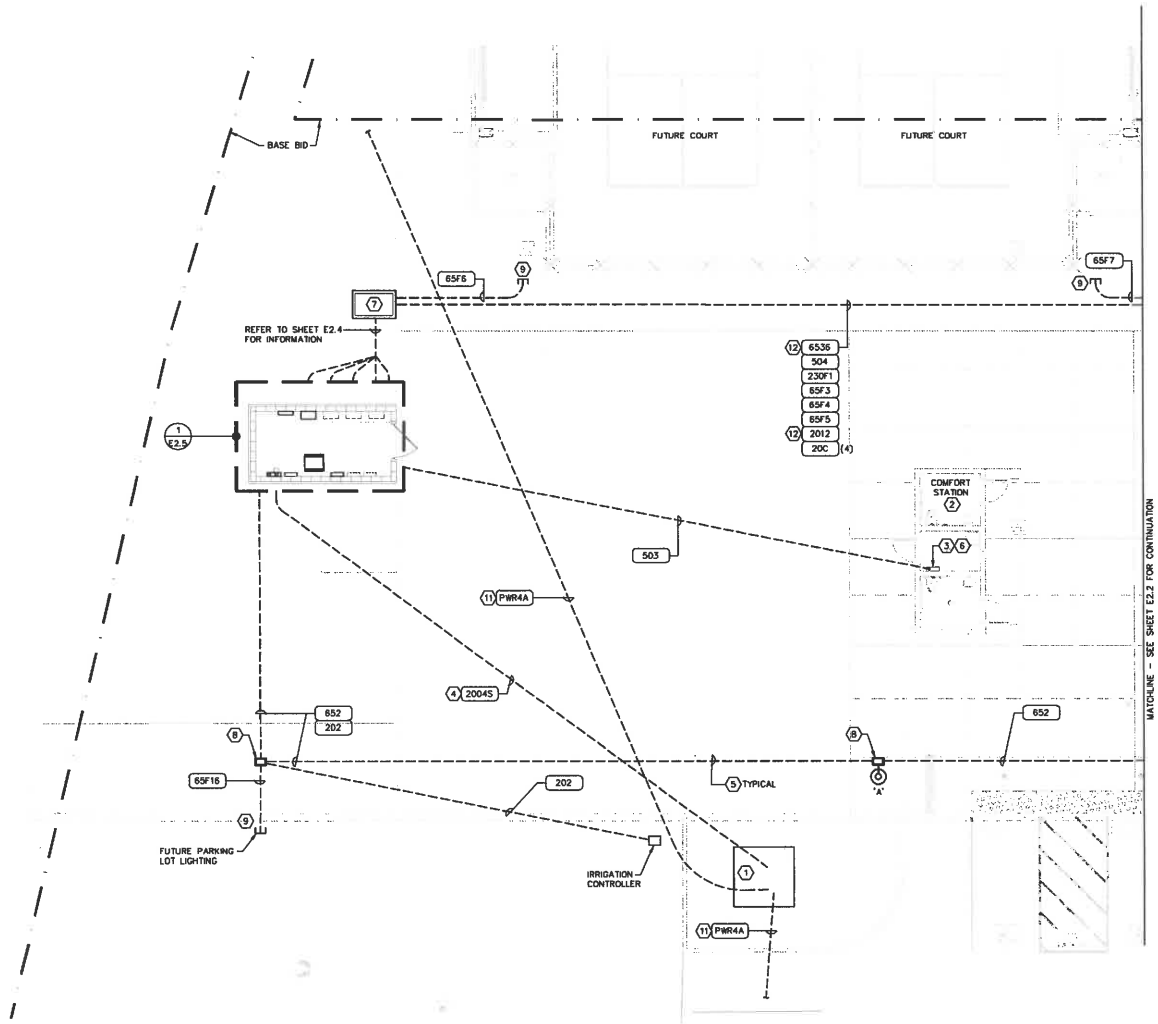

1 ENLARGED AREA PLAN - COMFORT STATION & ELECTRICAL YARD

SCALE: 1/8"=1'-0"

0 4' 8' 16'

SHEET KEYNOTES

1. TRANSFORMER PAD PER ROSEVILLE ELECTRIC REQUIREMENTS. COORDINATE EXACT LOCATION WITH ROSEVILLE ELECTRIC & LANDSCAPE ARCHITECT.
2. COMFORT STATION, PROVIDED BY OTHERS.
3. COMFORT STATION PANEL "CS1". PANEL PROVIDED BY COMFORT STATION CONTRACTOR. COORDINATE CONDUIT STUB-UP LOCATION WITH COMFORT STATION CONTRACTOR PRIOR TO ROUGH-IN.
4. UNDERGROUND SECONDARY CONDUIT(S). FOR INSTALLATION, SEE TYPICAL SECONDARY SERVICE TRENCH DETAIL ON SHEET E04 & COORDINATE EXACT REQUIREMENTS WITH ROSEVILLE ELECTRIC.
5. UNDERGROUND CONDUIT. FOR INSTALLATION, SEE TYPICAL TRENCH DETAIL ON SHEET E04.
6. SEE CONDUIT STUB-UP DETAIL ON SHEET E04.
7. UNDERGROUND CONCRETE VAULT. VAULT TO BE LABELED "ELECTRICAL". FOR INSTALLATION, SEE TYPICAL CONCRETE VAULT DETAIL ON SHEET E04.
8. UNDERGROUND CONCRETE PULL BOX. PULL BOX TO BE LABELED "LIGHTING". FOR INSTALLATION, SEE TYPICAL CONCRETE PULL BOX DETAIL ON SHEET E04.
9. PROVIDE ELECTRONIC MARKER ABOVE END OF CONDUITS AS REQUIRED.
10. ROSEVILLE ELECTRIC PRIMARY PULL BOX.
11. ROSEVILLE ELECTRIC PRIMARY UNDERGROUND CONDUIT. SEE TYPICAL PRIMARY TRENCH DETAIL ON SHEET E04.
12. FEEDER TAG INCLUDES ALL SPORTS LIGHTING CIRCUITS TO POLES. TOTAL QUANTITY OF CABLES IS DEPENDANT ON ADDITIVE ALTERNATES SELECTED. OMIT CABLES NOT INCLUDED IN CONTRACT SCOPE OF WORK.

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CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1363 Iron Point Rd, Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

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PRELIMINARY
JONATHAN A. CAMPBELL No. 18121 PROFESSIONAL ELECTRICAL ENGINEER STATE OF CALIFORNIA

Date Signed: 5/19/22

CONSULTANT

Stanton ENGINEERING
PROJECT 21040
11344 Coloma Rd, Suite 445
Gold River, CA 95670
TEL 916.288.8250
www.stantoneng.com

SHEET TITLE

ENLARGED AREA PLANS ELECTRICAL

PROJECT NAME

GIBSON PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

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30% SUBMITTAL	08/2[illegible]
75% SUBMITTAL	01/[illegible]
100% SUBMITTAL	05/20/22

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ENLARGED AREA PLANS - ELECTRICAL

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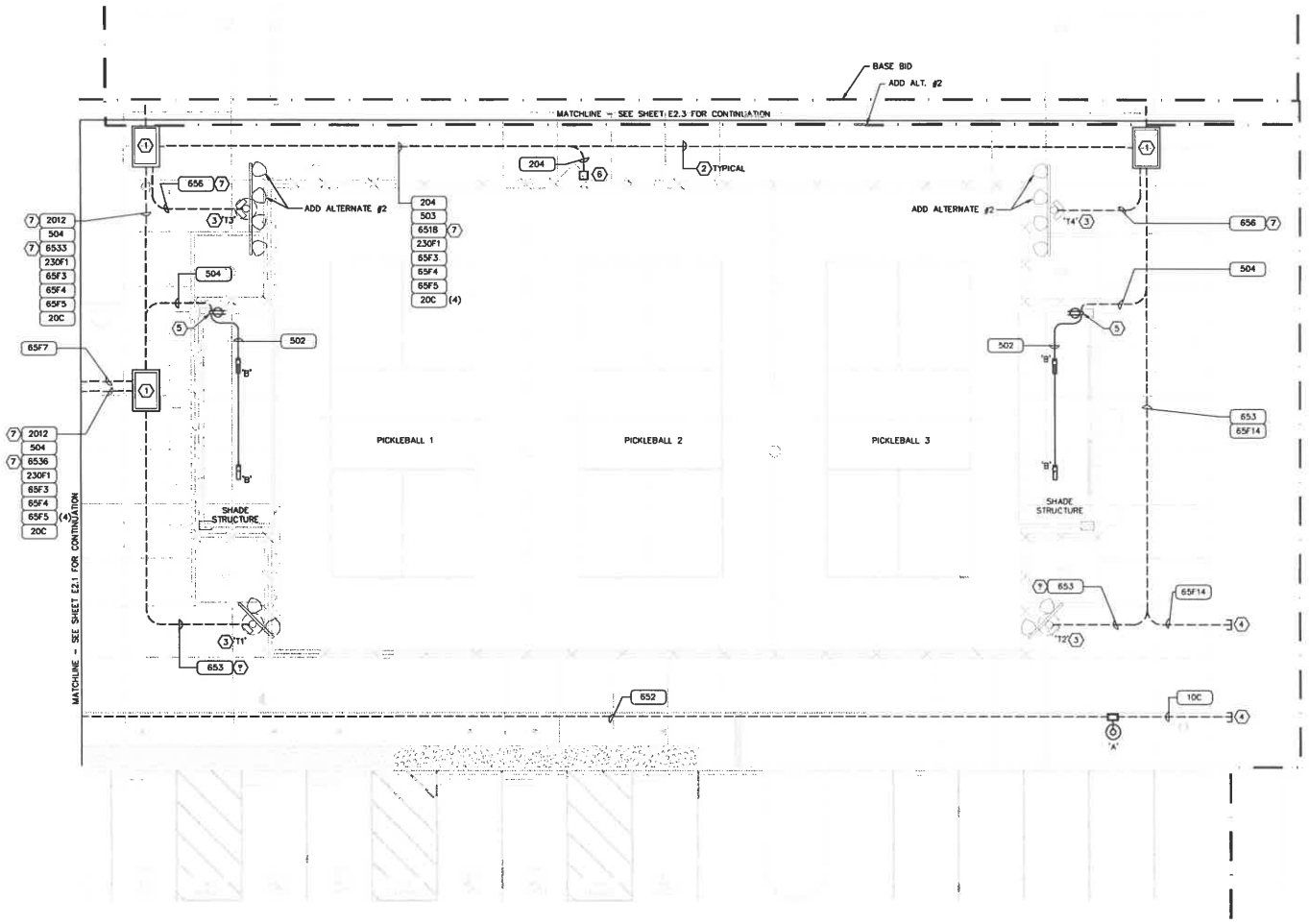

1 PARTIAL ENLARGED ELECTRICAL SITE PLAN 1

SCALE: 1/8"=1'-0"

0 4' 8' 16'

SHEET KEYNOTES

1. UNDERGROUND CONCRETE VAULT. VAULT TO BE LABELED 'ELECTRICAL', FOR INSTALLATION, SEE TYPICAL CONCRETE VAULT DETAIL ON SHEET E0.4.
2. UNDERGROUND CONDUIT. FOR INSTALLATION, SEE TYPICAL TRENCH DETAIL ON SHEET E0.4.
3. SPORTS LIGHTING POLE. POLE BASE, POLE, LIGHTING FIXTURE HEADS, COMPONENT ENCLOSURE, AND WIRING HARNESS PROVIDED BY SPORTS LIGHTING VENDOR. INSTALLATION OF ALL COMPONENTS BY SPORTS LIGHTING VENDOR.
4. PROVIDE ELECTRONIC MARKER ABOVE END OF CONDUITS AS REQUIRED.
5. FOR CONDUIT STUB-UP, SEE CONDUIT STUB-UP DETAIL ON SHEET E0.4.
6. INTERCEPT AND EXTEND CONDUIT INSTALLED IN ADD ALTERNATE #1. INSTALL CONDUCTORS FROM CONTROL STATION TO MUSCO PANEL 'SLCC1' AND CONNECT AS DIRECTED.
7. FEEDER TAG INCLUDES ALL SPORTS LIGHTING CIRCUITS TO POLES. TOTAL QUANTITY OF CABLES IS DEPENDANT ON ADDITIVE ALTERNATES SELECTED. OMIT CABLES NOT INCLUDED IN CONTRACT SCOPE OF WORK.

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1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.8554
fax: 916.415.8525
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CONSULTANT

Stanton ENGINEERING
PROJECT
11344 Coloma Rd, Suite 445
Gold River, CA 95670
TEL 916.288.5250
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SHEET TITLE

PARTIAL ENLARGED ELECTRICAL SITE PLAN 1

PROJECT NAME

GIBSON PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/31/21
75% SUBMITTAL	01/31/22
100% SUBMITTAL	05/20/22

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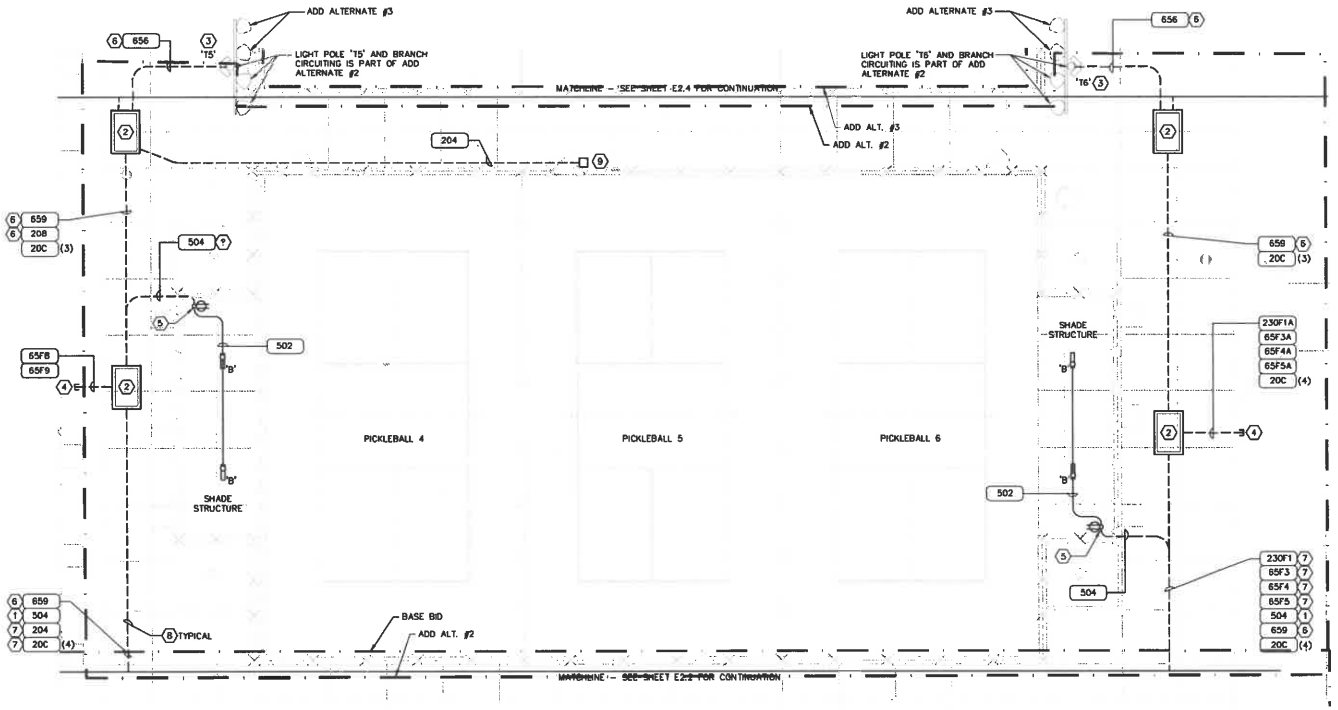

1 ADD ALTERNATE #1 - PARTIAL ENLARGED ELECTRICAL SITE PLAN 2

SCALE: 1/8"=1'-0"

0 4' 8' 16'

SHEET KEYNOTES

1. INTERCEPT AND EXTEND SUNSHADE LIGHTING AND RECEPTACLE CIRCUITS FROM BASE BID SUNSHADE CIRCUITS.
2. UNDERGROUND CONCRETE VAULT. VAULT TO BE LABELED 'ELECTRICAL'. FOR INSTALLATION, SEE TYPICAL CONCRETE VAULT DETAIL ON SHEET ED4.
3. SPORTS LIGHTING POLE. POLE BASE, POLE, LIGHTING FIXTURE HEADS, COMPONENT ENCLOSURE, AND WIRING HARNESS PROVIDED BY SPORTS LIGHTING VENDOR. INSTALLATION OF ALL COMPONENTS BY SPORTS LIGHTING VENDOR.
4. PROVIDE ELECTRONIC MARKER ABOVE END OF CONDUITS AS REQUIRED.
5. FOR CONDUIT STUB-UP, SEE CONDUIT STUB-UP DETAIL ON SHEET E4.1
6. FEEDER TAG INCLUDES ALL SPORTS LIGHTING CIRCUITS TO POLES. TOTAL QUANTITY OF CABLES IS DEPENDANT ON ADDITIVE ALTERNATES SELECTED. OMIT CABLES NOT INCLUDED IN CONTRACT SCOPE OF WORK.
7. INTERCEPT AND EXTEND CONDUITS INSTALLED UNDER BASE BID.
8. UNDERGROUND CONDUIT. FOR INSTALLATION, SEE TYPICAL TRENCH DETAIL IN SHEET E0.4.
9. SPORTS LIGHTING CONTROL STATION. SEE DETAIL 3 SHEET E0.5
10. INTERCEPT AND EXTEND CONDUIT INSTALLED IN ADD ALTERNATE #1. INSTALL CONDUCTORS FROM CONTROL STATION TO MUSCO PANEL 'SLCC1' AND CONNECT AS DIRECTED.

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fax: 916.415.5525
www.VerdeDesigninc.com

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REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

Date Signed: 5/19/22

CONSULTANT

Stanton ENGINEERING
PROJECT 21040
11344 Coloma Rd, Suite 445
Gold River, CA 95670
TEL 916.288.6250
www.stantoneng.com

SHEET TITLE

PARTIAL ENLARGED ELECTRICAL SITE PLAN 2

PROJECT NAME

GIBSON PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2[illegible]
75% SUBMITTAL	01/17/22
100% SUBMITTAL	03/30/22

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		
7		

DRAWN BY	CHECKED BY
JL/JC	NH
DATE ISSUED	SCALE
05/20/2022	
PROJ. NO.	
2014500	
SHEET NO.	
E2.3	OF SHEETS

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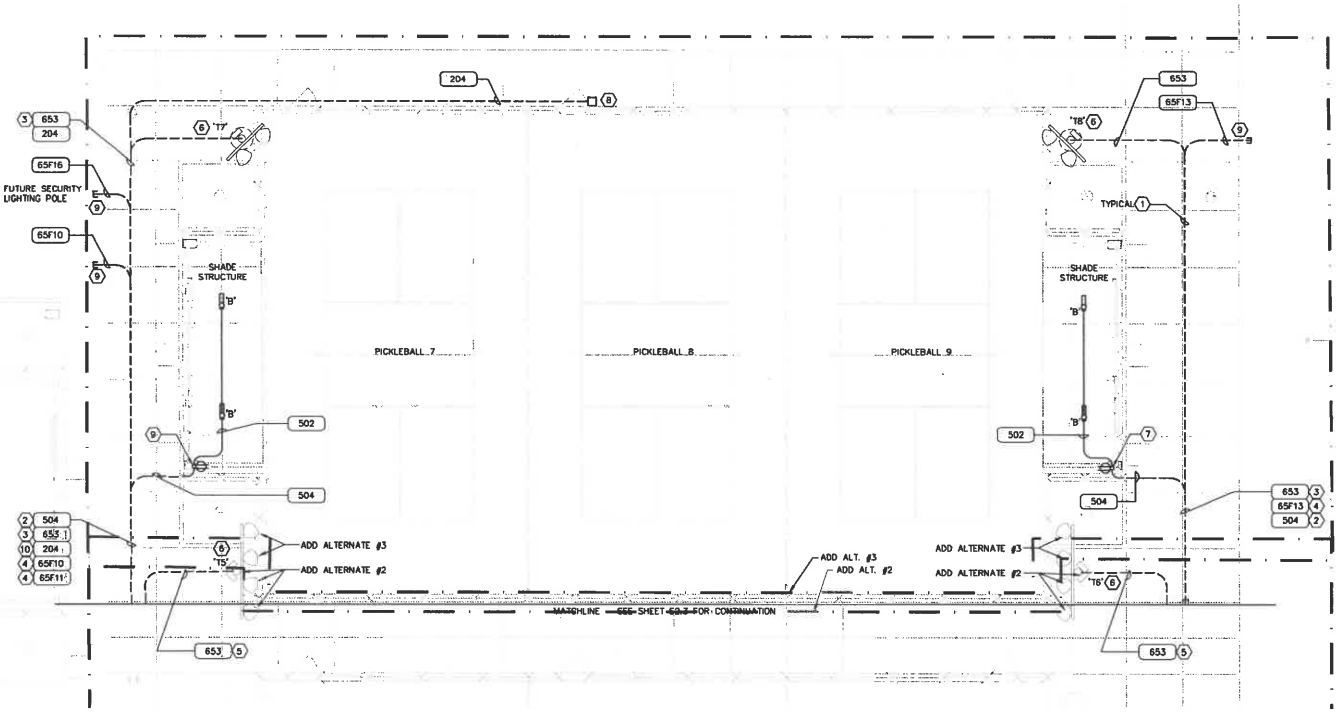

1 ADD ALTERNATE #3 - PARTIAL ENLARGED ELECTRICAL SITE PLAN 3

SCALE: 1/8"=1'-0"

0 4' 8' 16'

SHEET KEYNOTES

1. UNDERGROUND CONDUIT. FOR INSTALLATION, SEE TYPICAL TRENCH DETAIL ON SHEET E0.4.
2. INTERCEPT AND EXTEND SUN SHADE LIGHTING AND RECEPTACLE CIRCUITING FROM ADD ALTERNATE #1 SUNSHADE CIRCUITS.
3. INTERCEPT AND EXTEND CONDUIT INSTALLED IN ADD ALTERNATE #1. INSTALL CONDUCTORS FROM POLE TO MUSCO PANEL 'SLCC1' AND CONNECT AS DIRECTED.
4. INTERCEPT AND EXTEND CONDUIT INSTALLED IN ADD ALTERNATE #1 AND STUB-OUT FOR FUTURE POLE.
5. FEEDER TAG INCLUDES ALL SPORTS LIGHTING CIRCUITS TO POLES. TOTAL QUANTITY OF CABLES IS DEPENDANT ON ADDITIVE ALTERNATES SELECTED. OMIT CABLES NOT INCLUDED IN CONTRACT SCOPE OF WORK.
6. SPORTS LIGHTING POLE. POLE BASE, POLE, LIGHTING FIXTURE HEADS, COMPONENT ENCLOSURE, AND WIRING HARNESS PROVIDED BY SPORTS LIGHTING VENDOR. INSTALLATION OF ALL COMPONENTS BY SPORTS LIGHTING VENDOR.
7. FOR CONDUIT STUB-UP, SEE CONDUIT STUB-UP DETAIL ON SHEET E0.4
8. SPORTS LIGHTING CONTROL STATION, SEE DETAIL 3 SHEET E0.5
9. PROVIDE ELECTRONIC MARKER ABOVE END OF CONDUITS AS REQUIRED.
10. INTERCEPT AND EXTEND CONDUIT INSTALLED IN ADD ALTERNATE #1. INSTALL CONDUCTORS FROM CONTROL STATION TO MUSCO PANEL 'SLCC1' AND CONNECT AS DIRECTED.

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Stanton ENGINEERING

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11344 Coloma Rd, Suite 445
Gold River, CA 95670
TEL 916.288.8260
www.stantoneng.com

SHEET TITLE

PARTIAL ENLARGED ELECTRICAL SITE PLAN 2

PROJECT NAME

GIBSON PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2[illegible]
75% SUBMITTAL	[illegible]
100% SUBMITTAL	05/20/22

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SHEET NO.: E2.4 OF SHEETS	

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ADD ALTERNATE #2 - PARTIAL ENLARGED ELECTRICAL SITE PLAN 3

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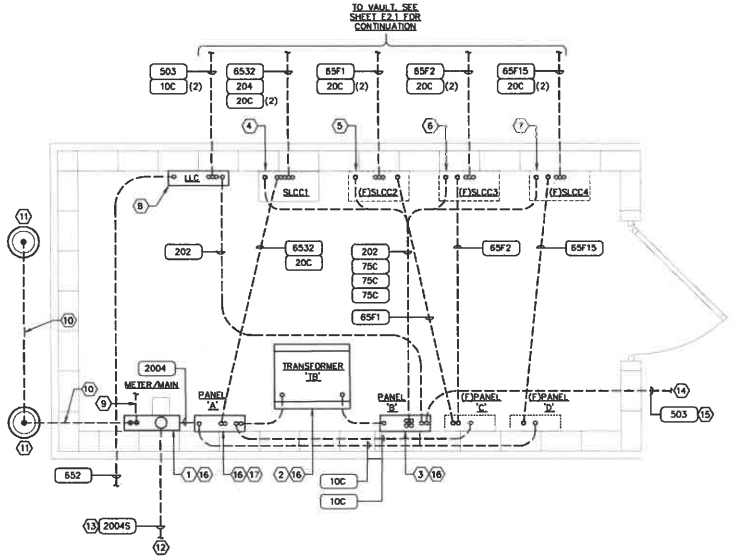
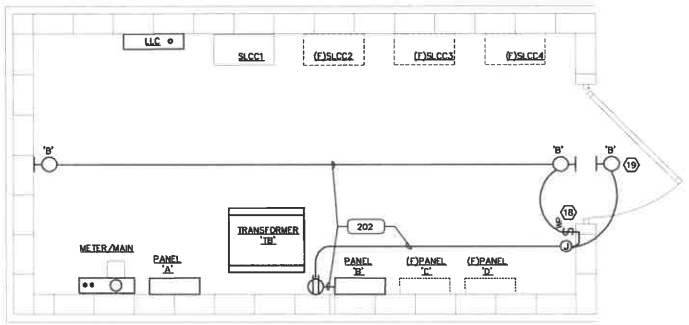


1 ENLARGED AREA PLAN - ELECTRICAL YARD

SCALE: 1/2"=1'-0"

0 1' 2' 4'



2 ENLARGED AREA PLAN - ELECTRICAL YARD

SCALE: 1/2"=1'-0"

0 1' 2' 4'

SHEET KEYNOTES

1. ELECTRICAL UTILITY SERVICE METER/MAIN ENCLOSURE 'MMGP'. FOR CONNECTIONS, SEE ONE-LINE DIAGRAM ON SHEET E0.2.
2. TRANSFORMER 'TB'. FOR CONNECTIONS SEE ONE-LINE DIAGRAM ON SHEET E0.2.
3. PANEL 'B'. FOR CONNECTIONS, SEE PANEL SCHEDULE ON SHEET E0.3.
4. SPORTS LIGHTING CONTROL CABINET 'SLCC1'. CABINET PROVIDED BY MUSCO LIGHTING. FOR CONNECTIONS, SEE MAIN SWITCHBOARD 'MSB' ONE-LINE DIAGRAM ON SHEET E0.2. FOR CONTACTOR & LIGHTING POLE SCHEDULE, SEE SPORTS LIGHTING CONTACTOR & LIGHTING POLE SCHEDULE ON SHEET E0.7. FOR ADDITIONAL INFORMATION, SEE MUSCO DRAWINGS.
5. FUTURE SPORTS LIGHTING CONTROL CABINET 'SLCC2'.
6. FUTURE SPORTS LIGHTING CONTROL CABINET 'SLCC3'.
7. FUTURE SPORTS LIGHTING CONTROL CABINET 'SLCC4'.
8. LIGHTING CONTROL CABINET 'LCC'. FOR CONNECTIONS, SEE LIGHTING CONTROLS WIRING DIAGRAM ON SHEET E0.5 FOR CABINET LAYOUT, SEE LCC LIGHTING CONTROL CABINET ON SHEET E0.5.
9. UFER GROUND. 20 FEET OF #3/0 BARE COPPER IN CONCRETE FOOTING OF ELECTRICAL YARD ENCLOSURE.
10. #3/0 BARE COPPER GROUNDING ELECTRODE.
11. 3/4" x 8'-0" COPPER GROUND ROD & UNDERGROUND CONCRETE GROUND ROD BOX. FOR INSTALLATION, SEE TYPICAL CONCRETE GROUND ROD BOX ON SHEET E0.4.
12. TO ROSEVILLE ELECTRIC TRANSFORMER PAD.
13. UNDERGROUND SECONDARY CONDUIT(S). FOR INSTALLATION, SEE TYPICAL SECONDARY SERVICE TRENCH DETAIL ON SHEET E0.4 & COORDINATE EXACT REQUIREMENTS WITH ROSEVILLE ELECTRIC.
14. TO COMFORT STATION PANEL. FOR CONTINUATION SEE SHEET E2.1.
15. UNDERGROUND CONDUIT. FOR INSTALLATION, SEE TYPICAL TRENCH DETAIL ON SHEET E0.4.
16. SEE CONDUIT STUB-UP DETAIL ON SHEET E0.4.
17. PANEL 'A'. FOR CONNECTIONS, SEE PANEL SCHEDULE ON SHEET E0.3.
18. WEATHERPROOF LIGHTING SWITCH IN CAST BOX.
19. TYPE 'B' FIXTURE WITH PHOTOCELL OPTION. INSIDE FIXTURES WITHOUT PHOTOCELL.

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11344 Coloma Rd, Suite 445
Gold River, CA 95670
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SHEET TITLE

ENLARGED AREA PLAN
ELECTRICAL YARD

PROJECT NAME

GIBSON
PARK

PROJECT ADDRESS

1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2[illegible]
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PROJ. NO.
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PLOT DATE: 05-19-22 PLOTTED BY: JCampbell

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BUILDING ENERGY ANALYSIS REPORT

PROJECT:
Gibson Park
1099 Roseville Park
Roseville, CA 95678

Project Designer:
Verde Design
1842 Iron Point Road #140
Folsom, CA 95630
408-830-3414

Report Prepared by:
Stanton Engineering

Job Number:
21040

Date:
5/13/2022

The EnergyPro compliance program has been used to perform the calculations summarized in this compliance report. This program has been certified to be conformant by the California Energy Commission for use with both the Prescriptive and Nonresidential 2019 Building Energy Efficiency Standards.

This program conforms to ES rev.g.built Radiance - www.energysoft.com.

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTG
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTG-E — (Page 1 of 4)
Project Name: Gibson Park — Report Page:
Project Address: 1099 Roseville Park — Date Prepared: 5/13/2022

A. GENERAL INFORMATION

01 Project Location (city)	Roseville	03 Total Conditioned Floor Area (ft²)	171
02 # of Model Spaces	1	04 Total Unconditioned Floor Area (ft²)	0
02a Occupancy Type, Whether Present or Not		05 # of Stories (+basement, -crawl)	1

e = See Table F

B. PROJECT SCOPE

This table indicates any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work		Conditioned Spaces		Unconditioned Spaces	
	01	02	03	04	05
	Are Project Covered or Impact all the Space	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
N	New Lighting System	Comp-ere Building Method	171	Complete Building Method	0
C	New Lighting System - Parking Garage				
	Total Area of Work (ft²)		171		0

C. COMPLIANCE RESULTS

Every roll on the table says "DOES NOT COMPLY" or "COMPLIES with Assessment Conditions" refer to Table G for guidance.

	Allowed Lighting Power per §140.6(a) (Watts)					Adjusted Lighting Power per §140.6(b)2 (Watts)				Compliance Results
	01	02	03	04	05	06	07	08	09	10
Lighting in conditioned and unconditioned spaces must be considered together for compliance per §140.6(a)1	Complete Building §140.6(a)1	Area Category §140.6(a)2	Additional §140.6(a)3	Tailored §140.6(a)4		Watts Allowed (Watts)		Adjustments PAF Lighting Control (-watts) §140.6(a)4		Total Adjusted Power *includes Adjustments		05 must be >= 09 §140.6
	Total Table C	(Use Table C)	(Use Table C)			(Use Table F)		(Use Table F)				
Conditioned	170				=	170	X	27	0	=	27	COMPLIES
Unconditioned					=	0				=		

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Bu ilding Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.000 Schema Version: rev 20200903 — Report Generated: 2022-05-13 08:19:05

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE — NRCC-LTG-E — (Page 2 of 4)
Project Name: Gibson Park — Report Page:
Project Address: 1099 Roseville Park — Date Prepared: 5/13/2022

C. COMPLIANCE RESULTS

Lighting Compliance (See Table G for Details)	COMPLIES
Total Power Reduction Compliance (See Table G for Details)	

D. EXCEPTIONAL CONDITIONS

This table is auto filled with applicable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Yes/No)	Sealed Separate E. Driver?	Watts per luminaire*	Have a Wattage Determined	Total Number of Luminaires	Subtotal per §140.6(a)3	Design Watts	Field Inspector Verified: Pass / Fail
B	Type B	No	No	17.4	NR: spec	2	NA	34.8	☐ ☐
					Total Designed Watts CONDITIONED SPACES			27	

*FOOTNOTE: Design Watts for each aperture and color changing luminaire with quantity per §140.6(a)3B is reduced to be 70% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
†Authority Having Jurisdiction may call for luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table indicates lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the items are left blank.

Mandatory Shut-off Required §110.12(a) — Shut-off controls §130.1(a)
Required > 10,000 SF — Whole Building Auto-Time Switch

Area Load Controls

01	02	03	04	05	06	07	08	09
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(a)	Shut-Off Controls §130.1(a)	Re-Interpreted Daylighting §140.6(a)	Secondary Daylighting §140.6(a)	Unenclosed Spaces §140.6(a)4	*Field Validation: Pass / Fail
Electrical Yard	All Other Occupancies	Manual ON/OFF	Exempt*	Exempt*	N/A	N/A	No	☐ ☐

*NOTES: Controls with a * (Asterisk) in the above table indicating how compliance is achieved.
For Conference 2: Primary/Skylight Skylighting: Energy Because less than 120 watts of general lighting. EXCEPTION 1 to §130.1(d)2

Plan Sheet Showing Skylit Areas

Electrical Yard — Electrical Power

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Columns 08 indicates if additional lighting power allowances per §140.6(a)3 or adjustments per §140.6(b)2 are being used.

Conditioned Spaces

01	02	03	04	05	06	07
Area Description	Complete Building or Area Category Primary Function	Allowed Density (W/ft²)	Area (ft²)	Allowed Watts (Watts)	Additional Allowances / Adjustments: Area Category	Additional Allowances / Adjustments: PAF

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CERTIFICATE OF COMPLIANCE — NRCC-LTG-E — (Page 3 of 4)
Project Name: Gibson Park — Report Page:
Project Address: 1099 Roseville Park — Date Prepared: 5/13/2022

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Whole Building	Assembly	0.7	171	119.7	No	No
		TOTALS	171	119.7	See Tables I or P for details	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 85% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

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CERTIFICATE OF COMPLIANCE — NRCC-LTG-E — (Page 4 of 4)
Project Name: Gibson Park — Report Page:
Project Address: 1099 Roseville Park — Date Prepared: 5/13/2022

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Certificates have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and one with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP), for more information visit: http://www.energy.ca.gov/efficiency/certified_providers.html

Form/Title	Field Inspector Verified: Pass	Fail
NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Certificates have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and one with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP), for more information visit: http://www.energy.ca.gov/efficiency/certified_providers.html

Form/Title	Systems/Spaces to be Field Verified		Field Inspection Pass	Fail
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐		
NRCA-LTI-06-A - Must be submitted for dimmed and responsive lighting controls.	☐	☐		

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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTG
CALIFORNIA ENERGY COMMISSION

V. Declaration Statement

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company: Stanton Engineering	Signature Date: 2022-05-13
Address: 11344 Coloma Rd, Suite 445	City/State/Zip: Gold River, CA 95670
Phone: (916) 288-8250	Email: [illegible]

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 6 and the 2019 California Building Standards.
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. Performance data, a completed signed copy of the 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 the Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Eric J David, PE	Responsible Designer Signature:
Company: Stanton Engineering	Date Signed: 2022-05-13
Address: 11344 Coloma Rd, Suite 445	City/State/Zip: Gold River CA 95670
Phone: (916) 288-8250	

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
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CERTIFICATE OF COMPLIANCE — NRCC-LTG-E — (Page 5 of 4)
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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 6 and the 2019 California Building Standards.
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. Performance data, a completed signed copy of the 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 the Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Eric J David, PE	Responsible Designer Signature:
Company: Stanton Engineering	Date Signed: 2022-05-13
Address: 11344 Coloma Rd, Suite 445	City/State/Zip: Gold River CA 95670
Phone: (916) 288-8250	

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft
CA Bu ilding Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.1.000 Schema Version: rev 20200903 — Report Generated: 2022-05-13 08:19:05

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fax: 916.415.5525
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PRELIMINARY — REGISTERED PROFESSIONAL ENGINEER — ERIC J. DAVID — ELECTRICAL — STATE OF CALIFORNIA

Date Signed: 5/19/22

CONSULTANT

Stanton ENGINEERING
PROJECT 21040
11344 Coloma Rd, Suite 445
Gold River, CA 95670
TEL 916.288.8250
www.stantoneng.com

SHEET TITLE
ELECTRICAL
TITLE 24
INTERIOR

PROJECT NAME
GIBSON
PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2[illegible]
75% SUBMITTAL	01/17/22
100% SUBMITTAL	03/30/22

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		

DRAWN BY: JL/JC
CHECKED BY: NH
DATE ISSUED: 05/20/2022
SCALE:
PROJ. NO.: 2014500
SHEET NO.: E3.1 OF SHEETS
ELECTRICAL TITLE 24 EXTERIOR

Not for Construction
For Council Approval

DRAWING NAME: S:\2021\21040 Gibson Park Phase 1\CAD\Elec\21040_E3.1.dwg
PLOT DATE: 05-19-22 PLOTTED BY: JCampbell

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STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTG-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTG-E — (Page 1 of 7)
Project Name: Gibson Park — Report Page:
Project Address: 1099 Roseville Park — Date Prepared: 5/13/2022

A. GENERAL INFORMATION

01	Project Location (city)	Roseville	
02	Climate Zone	21	
03	Outdoor Lighting Zone per Title 24 Part 1, §10-114 or as designated by Authority Having Jurisdiction (AHJ):		
☐	LZ0: Very Low – Undeveloped Parkland	☐	LZ3: Moderate – Rural Areas
☐	LZ1: Low – Developed Parkland	☒	LZ4: High – Allyot be reviewed by CA Energy Commission for Approval
		☐	LZ4: Moderately High – Urban Areas

B. PROJECT SCOPE

This table includes 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.

Why Project Complies (d):

☒	New Lighting System	Mixed Occupancy with Allowances from §140.7	
☐	Altered Lighting System	Is other than Non-Increasing the Connected lighting load (kW)?	☐ Yes ☐ No

% of Existing Luminaires Being Altered[2]	Sum Total of Luminaires Being Added or Altered	Calculation Method
0	0	

Please proceed to Table C. Outdoor Lighting Tailor Schedule to define the project's luminaires.

FOOTNOTE: [2] % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

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Registration Date/Time: Report Version: 2019.1.000 Schema Version: nrcc-2019-00
Registration Provider: Energy Soft Report Generated: 2022-05-13 08:19:25

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTG-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTG-E — (Page 2 of 7)
Project Name: Gibson Park — Report Page:
Project Address: 1099 Roseville Park — Date Prepared: 5/13/2022

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alterations projects, luminaires which are scheduled to remain (or unswitched) and luminaires which are removed and reinstalled (having 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.

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	Field Inspector: Fail
Shade Structure - South/East	Photocontrol	Yes	Exempt*	☐	☐
Shade Structure - South/West	Photocontrol	Yes	Exempt*	☐	☐
Shade Structure - Central/East	Photocontrol	Yes	Exempt*	☐	☐
Shade Structure - Central/West	Photocontrol	Yes	Exempt*	☐	☐
Shade Structure - North/East	Photocontrol	Yes	Exempt*	☐	☐
Shade Structure - North/West	Photocontrol	Yes	Yes	☐	☐
Walkway - Central Station	Photocontrol	Yes	Yes	☐	☐
Walkway - Pickleball	Photocontrol	Yes	Yes	☐	☐
	Photocontrol			☐	☐

Shade Structure - South/East	Battery Lighting
Shade Structure - South/West	Battery Lighting
Shade Structure - Central/East	Battery Lighting
Shade Structure - Central/West	Battery Lighting
Shade Structure - North/East	Battery Lighting

Registration Number: CA Building Energy Efficiency Standards – 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.000 Schema Version: nrcc-2019-00
Registration Provider: Energy Soft Report Generated: 2022-05-13 08:19:25

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTG-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTG-E — (Page 3 of 7)
Project Name: Gibson Park — Report Page:
Project Address: 1099 Roseville Park — Date Prepared: 5/13/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company: Stanton Engineering	Signature Date: 2022-05-13
Address:	City/State/Zip:
Phone:	Certificate of Registration/License Number: (Not Portion (if applicable)

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 design features and performance specifications, materials, components, and manufactured assemblies 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 will make it available to 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 building owner is to receive at occupancy.

Responsible Designer Name: Zachary Vinson	Responsible Designer Signature:
Title: Owner, PE	Date Signed: 5/19/22
Company: Stanton Engineering	Certificate of Registration/License Number: 2022-05-13
Address: 11344 Coloma Rd, Suite 445	City/State/Zip: Gold River, CA 95670
Phone: (916) 288-8250	

Registration Number: CA Building Energy Efficiency Standards – 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.000 Schema Version: nrcc-2019-00
Registration Provider: Energy Soft Report Generated: 2022-05-13 08:19:25

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTG-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTG-E — (Page 4 of 7)
Project Name: Gibson Park — Report Page:
Project Address: 1099 Roseville Park — Date Prepared: 5/13/2022

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data in tables and calculations in Tables F through I. Note: if any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance on use applicable Table references below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L

01		02		03		04		05		06		Compliance Results			
General Hardscape Allowance §140.7(a)1 (see Table C)	+	Per Application §140.7(a)2 (see Table D)	+	Sales Frontage §140.7(a)3 (see Table E)	+	Ornamental Hardscape §140.7(a)4 (see Table F)	+	Per Specific Area §140.7(a)5 (see Table G)	+	Existing Power Allowance §141.0(b)2L (See Table H)	=	Total Allowed (Watts)	-	Total Actual (Watts)	☐? must be >= 0
752.0	+	**	+	--	+	**	+	**	+	OR ^	=	797.6	-	302.6	COMPLIES

Cobalt Compliance (See Table N for Details): N/A
Contents Compliance (See Table M for Details): COMPLIES with Exceptional Conditions

D. EXCEPTIONAL CONDITIONS

The table is auto filled with unofficial comment because of selection made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: CA Building Energy Efficiency Standards – 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.000 Schema Version: nrcc-2019-00
Registration Provider: Energy Soft Report Generated: 2022-05-13 08:19:25

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTG-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTG-E — (Page 5 of 7)
Project Name: Gibson Park — Report Page:
Project Address: 1099 Roseville Park — Date Prepared: 5/13/2022

F. LIGHTING POWER ALLOWANCE: (per §140.7)

This table includes notes using allowance calculations per §140.7 General Hardscape Allowance as per Table 140.7-A when "Use it or lose it" Allowances are per Table 140.7-B (which allowances are being used to expand locations 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

☒ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowances (select all that apply) (select a - that apply)			
	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowances per Table 140.7-A (1.5 & 4)

Calculated General Hardscape Lighting Power Allowances per Table 140.7-A (2.2 & 3)

01	02	03	04	05	06	07	08	09
Area Description	Surface Type	Total Hardscape Allowance (Watts): Illuminated Area (ft²)	Total Hardscape Allowance (Watts): Allowance (Watts/ft²)	Total Hardscape Allowance (Watts): Base Allowance (Watts)	Area Wattage Allowance (Watts): Perimeter Length (ft)	Area Wattage Allowance (Watts): Allowed Density (W/ft²)	Area Wattage Allowance (Watts): Linear Allowance (watts/ft)	Total Connected Watts = Area + Linear (W=A+L)
Shade Structure - South/East	Concrete	3,80	0.01	9.9	88	0.4	35.2	45
Shade Structure - South/West	Concrete	3,80	0.01	9.9	88	0.4	35.2	45
Shade Structure - Central/East	Concrete	3,80	0.01	9.9	88	0.4	35.2	45
Shade Structure - Central/West	Concrete	3,80	0.01	9.9	88	0.4	35.2	45
Shade Structure - North/East	Concrete	3,80	0.01	9.9	88	0.4	35.2	45
Shade Structure - North/West	Concrete	3,80	0.01	9.9	88	0.4	35.2	45
Walkway - Central Station	Asphalt	1,760	0.025	44	108	0.3	42	86
Walkway - Pickleball	Asphalt	2,160	0.025	44	268	0.3	42	86
					Initial Wattage Allowance for Entire Site (Watts):			550
					Total General Hardscape Allowance (Watts):			793

I. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards – 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.000 Schema Version: nrcc-2019-00
Registration Provider: Energy Soft Report Generated: 2022-05-13 08:19:25

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTG-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTG-E — (Page 6 of 7)
Project Name: Gibson Park — Report Page:
Project Address: 1099 Roseville Park — Date Prepared: 5/13/2022

G. OUTDOOR LIGHTING FIXTURE SCHEDULE

This new or altered lighting system demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the space covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and existing luminaires being installed as part of the project as per §141.0(b)2L existing luminaires remaining or existing luminaires being moved are not included.

Designed Wattage

01	02	03	04	05	06	07	08	09	10
Name or Mark: Tag	Complete Luminaire Description		Watts per luminaire[1]	How is Wattage determined	Total number luminaires[2]	Luminaire Status[3]	Excluded per §140.7(d)	Design Watts	Cutoff Req. = 6.2 (+ initial value output 5,500 lm) *	Field Inspector: Pass	Field Inspector: Fail
A	Type A	☐ Linear	57	Mfr. Spec	2	New	☐	114	lm/s = 6,000 lumens	☐	☐
B	Type B	☐ Linear	25.4	Mfr. Spec	14	New	☐	187.6	lm/s = 6,000 lumens	☐	☐
							Total Design Watts:	301.6			

FOOTNOTES: [1] Luminaire wattage shall include ballast, driver, and other associated devices. [2] Number of luminaires shall be consistent with the number of luminaires shown on the plans. [3] Luminaire status shall be consistent with the plans. INSTRUCTIONS on §140.7(a)

*FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm cutoff requirements per §130.0(c)

[1] For linear luminaires, wattage should be indicated as "per foot" of Watts/Luminaire. Total Linear feet should be indicated in column 05 instead of number of luminaires.

[2] 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 Relocated" for existing luminaires which are being removed and reinstalled as part of the project scope.

* Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,000 unless exempted by §130.0(c)

H. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards – 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.000 Schema Version: nrcc-2019-00
Registration Provider: Energy Soft Report Generated: 2022-05-13 08:19:25

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTG-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTG-E — (Page 7 of 7)
Project Name: Gibson Park — Report Page:
Project Address: 1099 Roseville Park — Date Prepared: 5/13/2022

J. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table C, 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_nonresidential_documents/#nonresidential_documents/#NRCI

Form/Title	Field Inspector: Pass	Field Inspector: Fail
NRCI-LTG-01-E - Must be submitted for all buildings	☐	☐
NRCI-LTG-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

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table C, 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: https://www.energy.ca.gov/title24/testing/providers.html

Form/Title	Tests and Inspections To Be Field Verified: Pass	Field Inspector: Fail
NRCA-LTG-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to existing luminaires.	☐	☐

Registration Number: CA Building Energy Efficiency Standards – 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.000 Schema Version: nrcc-2019-00
Registration Provider: Energy Soft Report Generated: 2022-05-13 08:19:25

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SHEET TITLE
ELECTRICAL
TITLE 24
EXTERIOR

PROJECT NAME
GIBSON
PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/23/21
75% SUBMITTAL	01/17/22
100% SUBMITTAL	05/20/22

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		

DRAWN BY: JL/JC — CHECKED BY: NH
DATE ISSUED: 05/20/2022 — SCALE:
PROJ. NO.: 2014500
SHEET NO.: E3.2 OF SHEETS
ELECTRICAL TITLE 24 EXTERIOR

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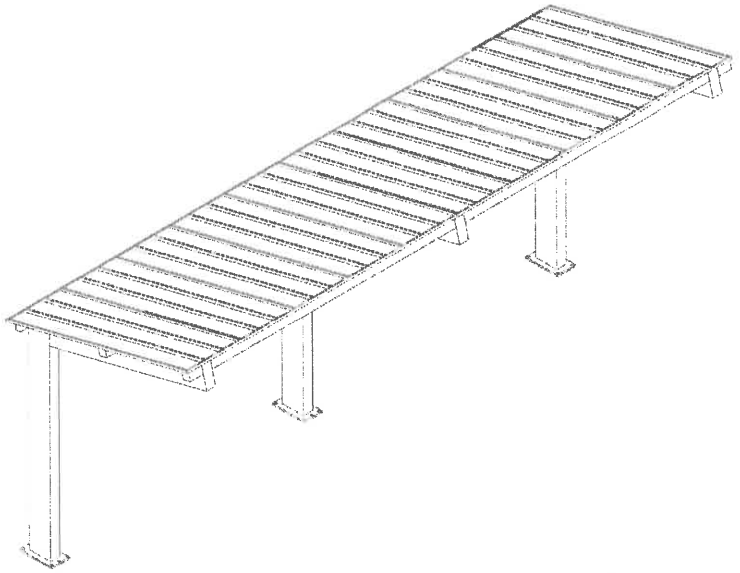
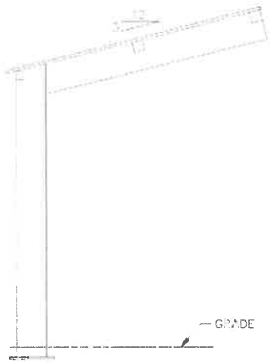
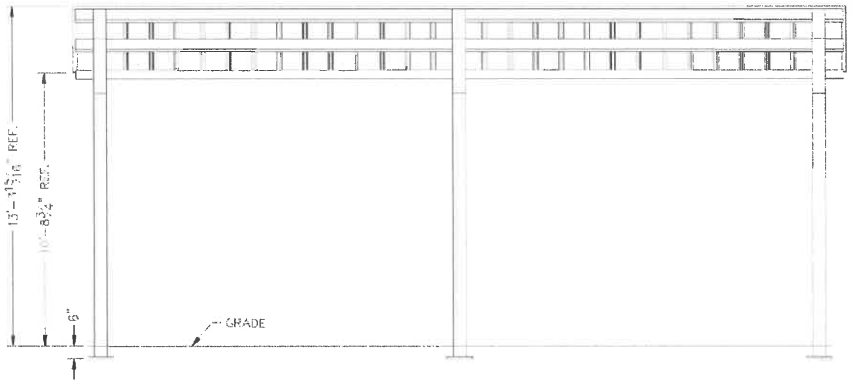
For Council Approval

DRAWING NAME: S:\2021\21040 Gibson Park Phase 1\CAD\Elec\21040_E3.2.dwg
PLOT DATE: 05-19-22 PLOTTED BY: JCampbell







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616.396.0919
800.748.0985
616.396.0944 FX

Elevation

DRAWN BY: RGB
DATE: 10/22/2021
PRELIMINARY ID: 73065
REVISION: A
BUILDING TYPE: MC10X30-10.5M
PROJECT NAME: MC10X30-10.5M-P3

SHEET 1 OF 1

DWG: Shelters\MC\10X30\M-P3-39-90-55\Drawings\Preliminary\MC10X30-10.5M-P3-39-90-55~73065.dwg

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1843 Iron Point Rd. Suite 140
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tel 916.415.6554
fax 916.415.6525
www.VerdeDesignInc.com

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KEY MAP

SHEET TITLE
SHADE STRUCTURE ELEVATION

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2[illegible]
75% SUBMITTAL	09/17/22
100% SUBMITTAL	03/30/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
ICON	CS
DATE ISSUED 05/20/2022	SCALE AS NOTED
PROJ. NO. 2014500	
SHEET NO. SS1.1 OF SHEETS	

Not for Construction
For Council Approval

SHADE STRUCTURE ELEVATION

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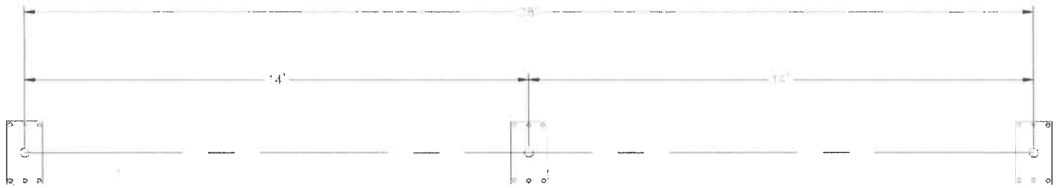
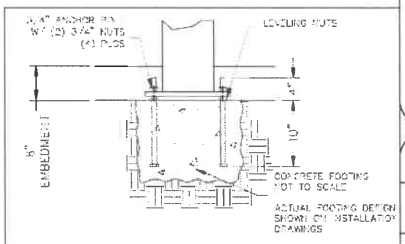
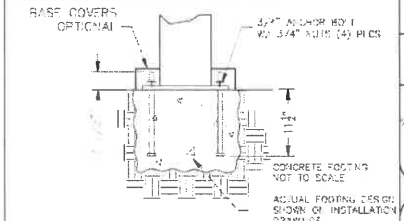




PRELIMINARY DRAWINGS SHOWN AS 6" BURIED

STANDARD BASE CONNECTION
COLUMN TYPE: A (6" BURIED)



OPTIONAL BASE CONNECTION
COLUMN TYPE: B (SURFACE MOUNT W/ COVERS)

PRELIMINARY: NOT FOR CONSTRUCTION

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Anchor Bolt Layout

DRAWN BY: PGB
DATE: 10/22/2021
PRELIMINARY ID: 73065
REVISION: A
BUILDING TYPE: MC10X30-10.5M
PROJECT NAME: MC10X30-10.5V-P3

SHEET 2 OF 2

DWG: Shelters\MC\10X30\M-P3-36-90-55\Drawings\Preliminary\MC10X30-10.5M-P3-36-90-55-73065.dwg

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tel: 916.415.6554
fax: 916.415.6525
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STAMP

KEY MAP

SHEET TITLE
SHADE STRUCTURE ANCHOR BOLT LAYOUT

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2[illegible]
75% SUBMITTAL	0[illegible]/17/22
100% SUBMITTAL	0[illegible]/20/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
ICON	CS
DATE ISSUED	SCALE
05/20/2022	AS NOTED
PROJ. NO.	
2014500	
SHEET NO.	
SS1.2 OF SHEETS	

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For Council Approval

SHADE STRUCTURE ANCHOR BOLT LAYOUT

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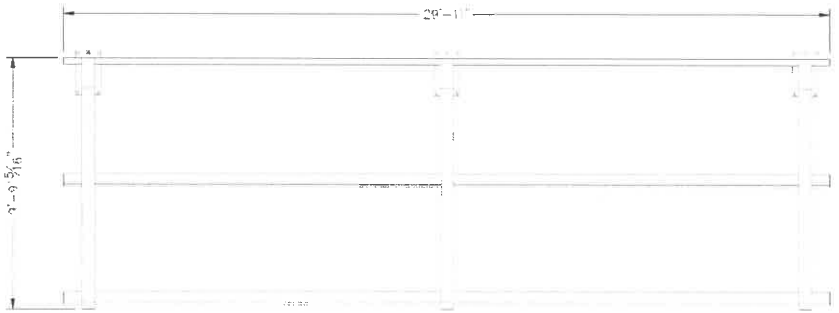

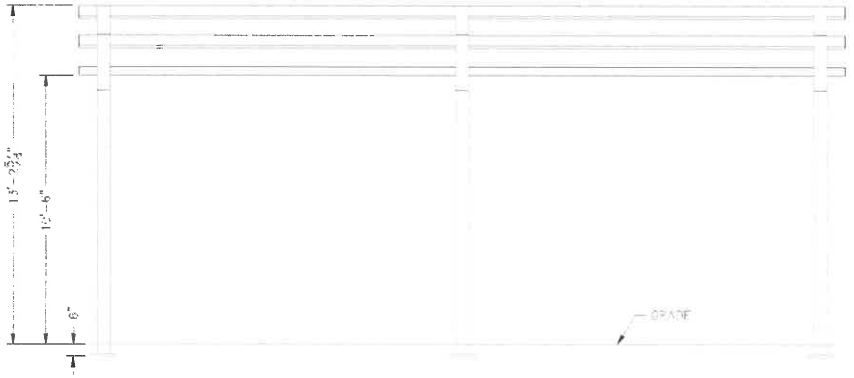

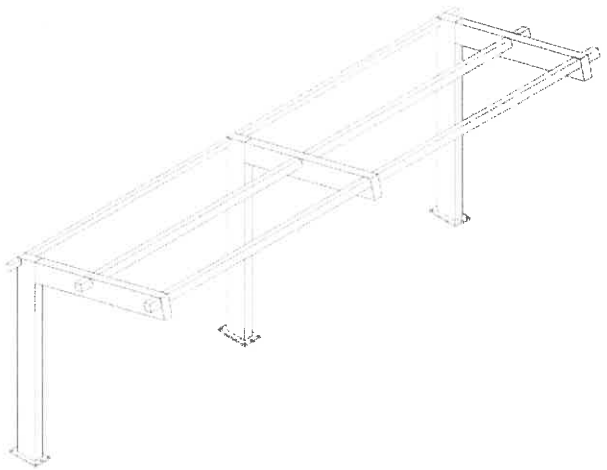

PRELIMINARY; NOT FOR CONSTRUCTION

ALL STRUCTURAL COMPONENTS WILL BE:
TUBE: ASTM A500 GRADE B
PLATE: ASTM A36
BOLTS: ASTM A325
NUTS: ASTM A563
WELDING: GMAW

NOTE:
COLUMN SIZE: HSS 14x6x1/4

ICON
Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
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1455 LINCOLN AVE.
HOLLAND MI. 49423
616.396.0919
800.748.0985
616.396.0944 FX

Form 2

DRAWN BY:
RGB
DATE:
10/22/2021
PRELIMINARY
73065
REVISION:
A
BUILDING TYPE:
MC10X30-10.5M-P3

SHEET
3 of 9

DWG: C:\Users\MC10X30\M-P3-36-90-55\Drawings\Preliminary\MC 10X-105M-P3-36-90-55-73065.dwg

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1548 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.8554
fax: 916.415.8825
www.VerdeDesigninc.com

STAMP

KEY MAP

SHEET TITLE
SHADE STRUCTURE FRAME

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

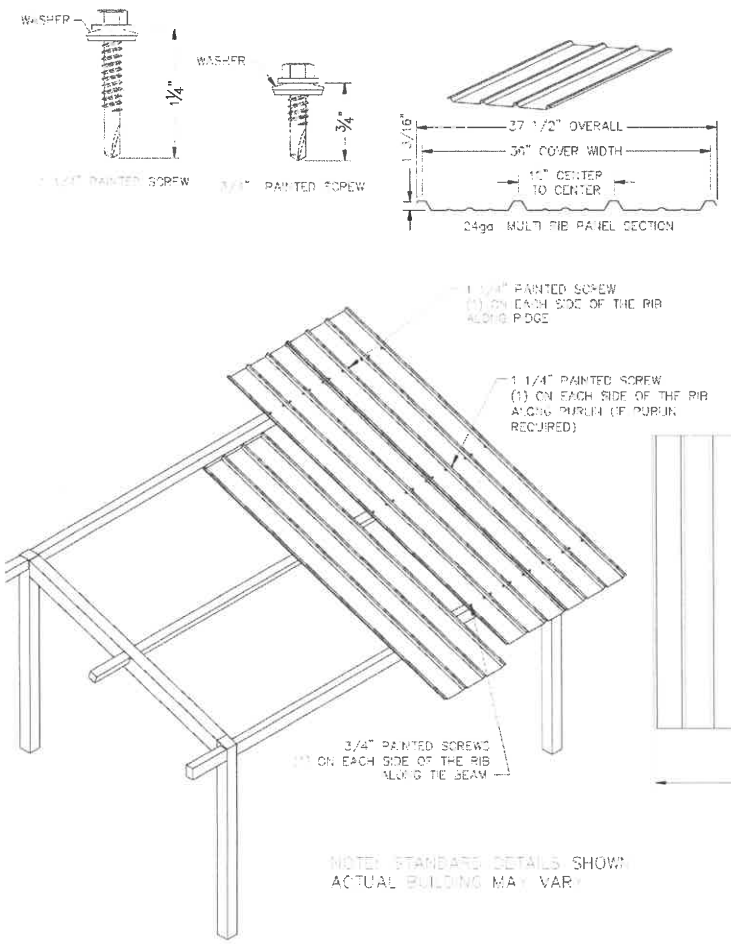
SUBMITTAL	DATE
30% SUBMITTAL	08/
75% SUBMITTAL	09/17/22
100% SUBMITTAL	10/20/22

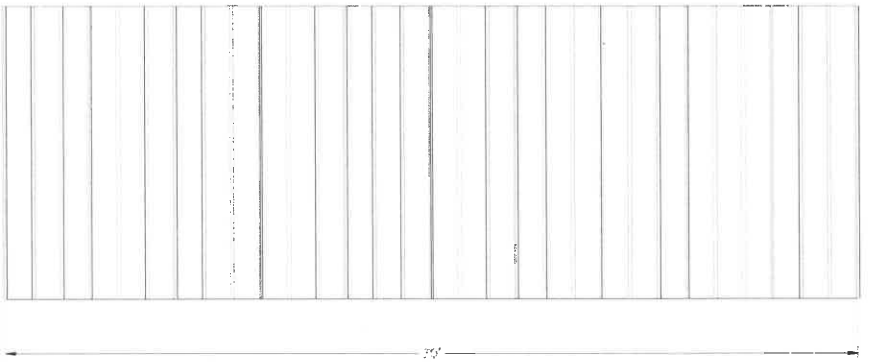
NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
ICON	CS
DATE ISSUED: 05/20/2022	SCALE: AS NOTED
PROJ. NO.: 2014500	
SHEET NO.: SS1.3 OF SHEETS	

SHADE STRUCTURE FRAME

Not for Construction
For Council Approval





PRELIMINARY: NOT FOR CONSTRUCTION

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616.396.0919
800.748.0985
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Roof Layout

DRAWN BY: RGB
DATE: 10/23/2021
PRELIMINARY ID: 73065
REVISION: A
BUILDING TYPE: MC10X30-10.5M
PROJECT NAME: MC10X30-10.5M-P3

SHEET 4 OF

DWG: Shelters\MC\10X30\M-P3-36-90-55\Drawings\Preliminary\MC10x30-105M-P3-36-90-55-73065.dwg

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CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

KEY MAP

SHEET TITLE
SHADE STRUCTURE ROOF LAYOUT

PROJECT NAME
GIBSON PARK

PROJECT ADDRESS
1099 ROSEVILLE PARKWAY
ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/2[illegible]
75% SUBMITTAL	[illegible]/17/22
100% SUBMITTAL	[illegible]/20/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
ICON	CS
DATE ISSUED 05/20/2022	SCALE AS NOTED
PROJ. NO. 2014500	
SHEET NO. SS1.4 OF SHEETS	

Not for Construction
For Council Approval

SHADE STRUCTURE ROOF LAYOUT

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ELECTRICAL INFORMATION - MONOSLOPE CANTILEVER

ICON'S STANDARD ELECTRICAL IS DESIGNED TO ACCOMMODATE Ø1/2" CONDUIT WITH A Ø3" INLET HOLE ON THE BOTTOM OF EACH COLUMN. THE CONDUIT PATHWAY RUNS THROUGH THE COLUMN, RAFTER, AND RIDGE BEAM THROUGH ALL BOLTED CONNECTIONS AS SHOWN. IF YOU HAVE SPECIAL ELECTRICAL REQUIREMENTS, PLEASE OUTLINE ANY CHANGES BELOW AS DESCRIBED.

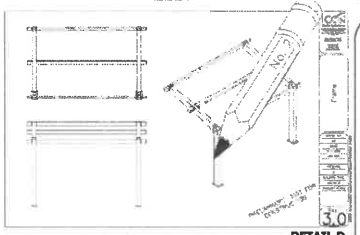
PLEASE NOTE: DESIGN LIMITATIONS ON HOLE/CUTOUT SIZES MAY APPLY. ICON WILL REACH OUT TO DISCUSS ANY SUCH LIMITATIONS AS NEEDED.

NOTE: ICON SHELTER FRAME IS NOT UL LISTED TO ACT AS A CONDUIT FOR ELECTRICAL WIRING. CONSULT LOCAL BUILDING CODES WHEN PLANNING YOUR ELECTRICAL SYSTEM.

PRELIMINARY: NOT FOR CONSTRUCTION

STEPS:
1. CONDUIT HOLE SIZE (DETAIL A)
2. ELECTRICAL EXIT HOLES (DETAIL B)
3. ELECTRICAL ACCESS & COVER PLATES (DETAIL C)
4. ELECTRICAL CONDUIT PATHWAY (DETAIL D)

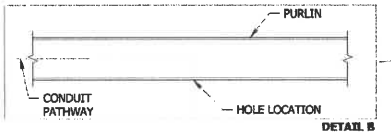
IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET OF THIS PRELIMINARY.



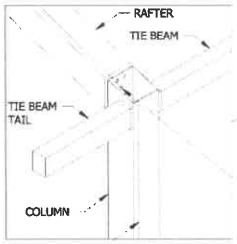
DETAIL D

OPTIONAL EXIT HOLES

IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RAFTER AND/OR PURLIN. USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED EXIT HOLE LOCATIONS AND SIZE.



DETAIL B

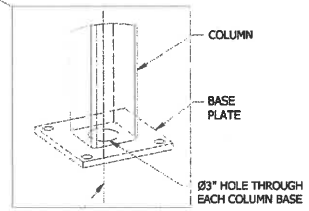


DETAIL A

ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT. IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

- ☐ 3/4" CONDUIT (1" HOLES)
- ☐ 1" CONDUIT (1 1/4" HOLES)
- ☐ OTHER (PLEASE SPECIFY)

CONDUIT PATHWAY PROVIDED FOR EACH COLUMN.



BASE DETAIL

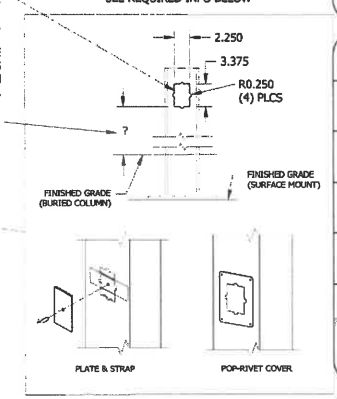
OPTIONAL CUTOUTS

USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED CUTOUT LOCATIONS (CHARGES APPLY) SEE REQUIRED INFO BELOW

(1) STANDARD CUTOUT SIZE SHOWN. SPECIFY IF OTHER SIZE REQUIRED.

(2) CUTOUTS WILL BE ON INSIDE FACE OF COLUMN UNLESS OTHERWISE INDICATED ON FRAME SHEET.

(3) SPECIFY HEIGHT ABOVE FINISHED GRADE FOR EACH CUTOUT AS SHOWN



DETAIL C

(4) COVER PLATES PROVIDED UPON REQUEST (CHARGES APPLY)
PLEASE SPECIFY TYPE AND QUANTITY REQUIRED:

- ☐ PLATE & STRAP
- ☐ POP-RIVET COVER PLATE

HOW MANY REQUIRED?_____

NOTE: BUILDING DEPICTED ON THIS SHEET FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LAYOUT AND FRAME MEMBER QUANTITIES VARY BY DESIGN. PLEASE REFER TO ELEVATION AND FRAME SHEETS IN THIS PRELIMINARY FOR ORDER-SPECIFIC CONFIGURATION.

ICON
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800.748.0983
616.396.0944 FX

PRELIMINARY

DRAWN BY: RGB
DATE: 10/22/2021
PRELIMINARY ID: /3065
REVISION: A
BUILDING TYPE: MC10X30-10.5M
PROJECT NAME: MC10X30-10.5M-P3

SHEET 5 OF 6

I:\WG Clients\MC\10'x30'M-P3_36-90-55\Drawings\Preliminary\MC10x30-10.5M-P3_36-90-55-73065.dwg

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.5554
fax: 916.415.5525
www.VerdeDesignInc.com

STAMP

KEY MAP

SHEET TITLE: SHADE STRUCTURE ELECTRICAL

PROJECT NAME: GIBSON PARK

PROJECT ADDRESS: 1099 ROSEVILLE PARKWAY ROSEVILLE, CA 95678

SUBMITTAL	DATE
30% SUBMITTAL	08/
75% SUBMITTAL	09/17/22
100% SUBMITTAL	09/30/22

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
ICON	CS
DATE ISSUED: 05/20/2022	SCALE: AS NOTED
PROJ. NO.: 2014500	
SHEET NO.: SS1.5 OF SHEETS	

SHADE STRUCTURE ELECTRICAL

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For Council Approval

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Standard Comfort Station #1 Master Plan

City of Roseville

Parks, Recreation, and Libraries Dept.

Roseville, CA

CITY OF ROSEVILLE CALIFORNIA

REVIEWED FOR CODE COMPLIANCE
BUILDING DIVISION
CONSTRUCTION DOCUMENTS
MUST BE ON JOB SITE

By:
Date:

WMB ARCHITECTS

5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

Standard Comfort Station #1
Roseville, CA

WMB Project No. 20-086

LIST OF SHEETS

T1	TITLE SHEET	S0.1	STRUCTURAL NOTES
T2	ACCESSIBILITY, SIGNAGE + PROJECT DATA	S0.2	STRUCTURAL NOTES
		S1.1	TYPICAL DETAILS
T3	CALGREEN COMPLIANCE	S1.2	TYPICAL DETAILS
		S2.1	FOUNDATION PLAN & ROOF FRAMING PLAN
A0.1	SHEET SPECIFICATIONS		
A0.2	SHEET SPECIFICATIONS	S3.1	STRUCTURAL DETAILS
A0.3	SHEET SPECIFICATIONS		
A0.4	SHEET SPECIFICATIONS	P1	PLUMBING COVER SHEET
		P2	PLUMBING FLOOR PLANS
A1	FLOOR, ROOF, + CEILING PLANS		
A2	EXTERIOR ELEVATIONS	E1	SYMBOLS AND PROJECT NOTES
A3	SECTIONS	E2	POWER AND LIGHTNING PLAN
A4	DETAILS	E3	TITLE 24 COMPLIANCE FORMS
A5	DOOR + FINISHES SCHEDULES	E4	TITLE 24 COMPLIANCE FORMS

GENERAL NOTES

1. ALL WORK SHALL BE IN CONFORMANCE WITH THE LATEST ADOPTED AND EFFECTIVE EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR), AS APPLICABLE:

PART 1	CALIFORNIA ADMINISTRATIVE CODE
PART 2	2019 CALIFORNIA BUILDING CODE
PART 3	2019 CALIFORNIA ELECTRICAL CODE
PART 4	2019 CALIFORNIA MECHANICAL CODE
PART 5	2019 CALIFORNIA PLUMBING CODE
PART 6	2019 CALIFORNIA ENERGY CODE
PART 9	2019 CALIFORNIA FIRE CODE
PART 11	2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

2. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CITY OF ROSEVILLE PARKS DESIGN AND CONSTRUCTION STANDARDS.

SPECIAL INSPECTIONS

1. SEE STRUCTURAL SHEETS FOR REQUIRED STRUCTURAL SPECIAL INSPECTIONS

BID ALTERNATES

A. BABY CHANGING STATION IN ROOM UNISEX 102; AND ASSOCIATED EXTERIOR SIGNAGE

B. ROLL-UP DOOR 105.2 WITH COUNTERTOP, IN LIEU OF C.M.U. BLOCK WALL

ABBREVIATIONS

@	AT	F.D.	FLOOR DRAIN	P.F.	PREFINISHED
A.B.	ANCHOR BOLT	F.E.	FIRE EXTINGUISHER	P.O.C.	POINT OF CONNECTION
A.C.	AIR CONDITIONER	F.G.	FIBERGLASS / FINISH GRADE	P.T.	PRESSURE TREATED
A.D.	AREA DRAIN	F.H.	FIRE HYDRANT	PL.	PLATE
A.F.F.	ABOVE FINISH FLOOR	F.O.S.	FACE OF STUD	PLAS.	PLASTIC
ABV.	ABOVE	F.R.	FIRE RATING	PLY	PLYWOOD
ACC.	ACCESSIBLE	FIN.	FINISH	PR.	PAIR
ACST.	ACOUSTIC	FLR.	FLOOR	PROP.	PROPERTY
ADJ.	ADJUSTABLE	FT.	FOOT / FEET	PSI	POUNDS PER SQUARE INCH
ALUM.	ALUMINUM	FTG.	FOOTING		
APPL.	APPLICABLE			R.C.	RELATIVE COMPACTION
APPROX.	APPROXIMATE	G.I.	GALVANIZED IRON	R.W.L.	RAIN WATER LEADER
		G.L.B.	GLUE LAMINATED BEAM	R.W.S.	RECESSED WATER SERVICE
B.O.	BOTTOM OF	GA.	GAUGE	RDWD.	REDWOOD
B.P.	BUILDING PAPER	GD.	GRADE	REINF.	REINFORCED
B.U.	BUILT UP	GL.	GLASS	REQ'D.	REQUIRED
BD.	BOARD	GYP. BD.	GYPSUM BOARD	RM.	ROOM
BLDG.	BUILDING				
BLK.	BLOCK	H.M.	HOLLOW METAL	S.C.	SOLID CORE
BLKG.	BLOCKING	HD.	HEAD	S.D.	STORM DRAIN
BOTT.	BOTTOM	HDR.	HEADER	S.F.	SQUARE FOOTAGE / STOREFRONT
BTWN.	BETWEEN	HDWR.	HARDWARE		
		HORIZ.	HORIZONTAL	S.M.	SHEET METAL
C.I.	CAST IRON	HR.	HOUR	S.M.S.	SHEET METAL SCREW
C.I.P.	CAST-IN-PLACE	HT.	HEIGHT	S.P.	SINGLE PLY
C.J.	CONTROL JOINT			S.S.	SANITARY SEWER LINE / STANDING SEAM / STAINLESS STEEL
C.L.	CENTER LINE	INSUL.	INSULATION		
CAB.	CABINET	INT.	INTERIOR	SCH.	SCHEDULE
CAT.	CATALOG			SECT.	SECTION
CBC	CALIFORNIA BUILDING CODE	JB.	JAMB	SHT.	SHEET
CLG.	CEILING	JT.	JOINT	SIM.	SIMILAR
CLR.	CLEAR			SL.	SILL
CMU	CONCRETE MASONRY UNIT	LAM.	LAMINATE	SPEC.	SPECIFICATION
COL.	COLUMN	LAV.	LAVATORY	SQ.	SQUARE
COMP.	COMPACTED	LT.	LIGHT	STD.	STANDARD
CONC.	CONCRETE	LTWT.	LIGHT WEIGHT	STL.	STEEL
CONT.	CONTINUOUS			SUSP.	SUSPENDED
		M.L.	METAL LATH	SW.	SWITCH
d	PENNY	MAX.	MAXIMUM		
D.F.	DOUGLAS FIR / DRINKING FOUNTAIN	MFG.	MANUFACTURER	T & B	TOP & BOTTOM
		MIN.	MINIMUM / MINUTE	T & G	TONGUE & GROOVE
D.H.	DOUBLE HUNG	MTD.	MOUNTED	T.O.	TOP OF
D.S.	DOWNSPOUT			T.O.C.	TOP OF CURB
DBL.	DOUBLE	(N)	NEW	T.O.P.	TOP OF PAVING
DIA.	DIAMETER	N.I.C.	NOT IN CONTRACT	T.S.	TUBE STEEL
DN.	DOWN	N.T.S.	NOT TO SCALE	TEMP	TEMPORARY
DWG.	DRAWING	N/A	NOT APPLICABLE	TYP.	TYPICAL
		NO. / #	NUMBER		
E.I.F.S.	EXTERIOR INSULATION & FINISH SYSTEM			U.B.C.	UNIFORM BUILDING CODE
		O.C.	ON CENTER	U.O.N.	UNLESS OTHERWISE NOTED
E.J.	EXPANSION JOINT	OPP.	OPPOSITE HAND		
E.W.	EACH WAY	o/	OVER	V.B.	VAPOR BARRIER
EA.	EACH	OZ.	OUNCE	V.I.F.	VERIFY IN FIELD
ELEV.	ELEVATION			V.T.R.	VENT THROUGH ROOF
EQ.	EQUAL			VERT.	VERTICAL
EXIST. / (E)	EXISTING			W.	WIDE
				W.H.	WATER HEATER
EXP.	EXPANSION			W.I.	WROUGHT IRON
EXT.	EXTERIOR			W.W.F.	WOVEN WIRE FABRIC
				w/	WITH
				w/o	WITHOUT
				WAINS.	WAINSCOT
				WD.	WOOD

OWNER INFORMATION

OWNER
CITY OF ROSEVILLE
PARKS, RECREATION, & LIBRARIES DEPARTMENT
311 VERNON STREET
ROSEVILLE, CA 95678
PHONE: 916.774.5342
CONTACT: RAJAHJA CANLAS

LIST OF CONSULTANTS

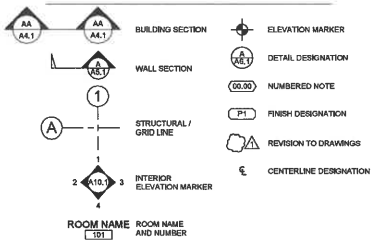
ARCHITECT
WMB ARCHITECTS
5757 PACIFIC AVENUE, STE 226
STOCKTON, CA 95207
PHONE: 209.944.9110
FAX: 209.944.5711
EMAIL: tm@wmbarchitects.com
CONTACT: TIM MATTHEIS, PROJECT ARCHITECT

STRUCTURAL ENGINEER
MERIDIAN STRUCTURAL ENGINEERS, INC.
1843 IRON POINT RD, #100
FOLSOM, CA 95630
PHONE: 916.385.4740
EMAIL: mike@meridianse.com
CONTACT: MIKE BAKER, S.E.

MECHANICAL ENGINEER
CAPITAL ENGINEERING
11020 SUN CENTER DRIVE, STE 100
RANCHO CORDOVA, CA 95670
PHONE: 916.851.3500
EMAIL: kstillman@capital-engineering.com
CONTACT: KEVIN STILLMAN, M.E.

ELECTRICAL ENGINEER
THE ENGINEERING ENTERPRISE
1125 HIGH STREET
AUBURN, CA 95603
PHONE: 530.886.8556
FAX: 530.886.8557
EMAIL: scott@engent.com
CONTACT: SCOTT WHEELER, PROJECT ENGINEER

SYMBOLS



PROJECT DATA

SINGLE OCCUPANCY - SINGLE STORY

PROJECT DESCRIPTION: NEW PARK RESTROOM BUILDING WITH STORAGE AND MAINTENANCE ROOMS		
CITY PLANNING ZONE		PR
TYPE OF CONSTRUCTION		V-B
OCCUPANCY		B / S-1**
OCCUPANT LOAD		6 OCC.
FIRE SPRINKLERS		NOT SPRINKLERED
ALLOWABLE HEIGHT	F.S. TYPE: N.S.	40'
ACTUAL HEIGHT		19' - 3"
ALLOWABLE STORIES	F.S. TYPE: N.S.	2
ACTUAL STORIES		1
ALLOWABLE TABULAR AREA (At)	F.S. TYPE: –	– S.F.
ALLOWABLE TABULAR AREA (N/S)	F.S. TYPE: N.S.	9,000 S.F.
FRONTAGE INCREASE (If) = [F/P–.25] x W/30		NOT USED
W = (L1 x w1 + L2 x w2 ...) / F	W =	
	F =	
	P =	
ALLOWABLE AREA (Aa) = [At + (nx x If)]		9,000 S.F.
ACTUAL BUILDING AREA		756 S.F.

** ITEMS TO BE STORED IN THE STORAGE ROOM:
JANITORIAL CLEANING CHEMICALS
CONSUMABLE RESTROOM SUPPLIES - PAPER, SOAP, TRASH BAGS
SALL CHALK AEROSOL
TURF PAINT
HAND TOOLS - FIELD CHALKERS, SHOVELS, RAKES
BUILDING TOUCH-UP PAINT (LESS THAN A PINT)
IRRIGATION HEADS

LICENSED ARCHITECT
RICHARD T. MATTHEIS
No. C-26142
STATE OF CALIFORNIA

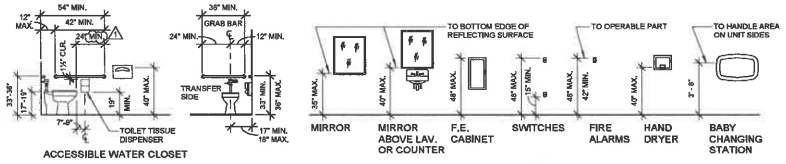
PUBLISH HISTORY:

	DATE	PURPOSE
1	05.11.21	PLAN REVIEW 1
2	08.11.21	AGENCY SUBMITTAL

Not for Construction
For Council Approval

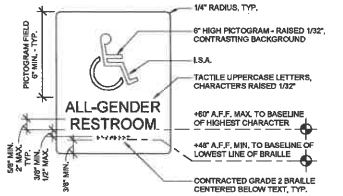
TITLE SHEET

T1



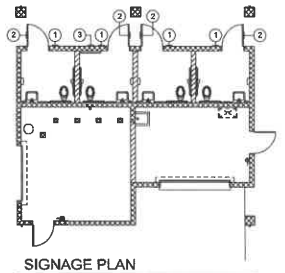
G RESTROOM MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"

NOTE: CONTROLS AT LAVATORIES, ACCESSIBLE URINALS, AND ON ACCESSIBLE SIDE OF WATER CLOSET SHALL NOT REQUIRE TIGHT GRASPING, TWISTING, PINCHING, OR MORE THAN 5 LBS. OF FORCE TO OPERATE PER CALIFORNIA BUILDING CODE.



NOTES:
1. CHARACTERS, SYMBOLS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND (WHITE ON A DARK BLUE BACKGROUND).
2. REFER TO TACTILE SIGN LOCATION DETAIL FOR SIGN LOCATION RELATIVE TO DOORS
3. BRAILLE SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 11B OF THE C.B.C., LATEST EDITION
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

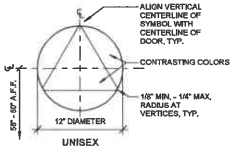
C TACTILE RR. ID. WALL SIGNAGE
SCALE: 3" = 1'-0"



SIGNAGE PLAN
SCALE: 1/8" = 1'-0"

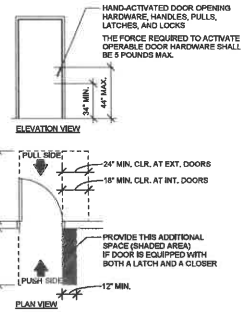
POSTED SIGNAGE LEGEND			
NO.	SIGN TYPE	TEXT	DETAIL
1	UNISEX RESTROOM ID w/ ISA SYMBOL	ALL-GENDER RESTROOM	C
2	UNISEX RESTROOM DOOR SYMBOL	-	D
3	BABY CHANGING STATION SIGN**	BABY CHANGING STATION	F

NOTE: DETAIL REFERENCES REFER TO DETAILS THIS SHEET U.O.N.
** BID ALTERNATE "A"

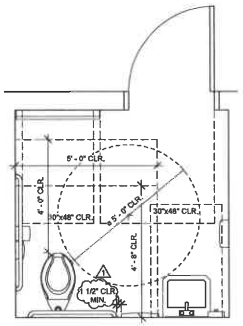


NOTES:
1. COLOR TO CONTRAST WITH DOOR COLOR
2. NO PICTOGRAM REQUIRED
3. NO BRAILLE OR TEXT ON THIS SIGN
4. EDGES OF GEOMETRIC SYMBOLS SHALL BE EASED OR ROUNDED AT 1/16" MIN. OR CHAMFERED AT 1/8" MAX.

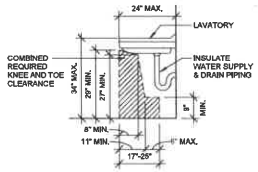
D RR. GEOMETRIC DOOR SYMBOL
SCALE: 1 1/2" = 1'-0"



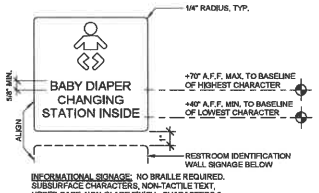
A ACCESSIBLE DOOR
SCALE: 1/4" = 1'-0"



H TYP. RESTROOM CLEARANCES
SCALE: 1/2" = 1'-0"

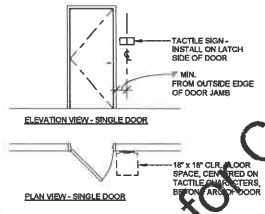


E KNEE AND TOE CLEARANCE @ LAV.
SCALE: 1/2" = 1'-0"



INFORMATIONAL SIGNAGE: NO BRAILLE REQUIRED. SUBSURFACE CHARACTERS, NON-TACTILE TEXT, UPPER CASE, NON-GLARE FINISH. CHARACTERS & SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND

F BABY CHANGING STATION SIGN
SCALE: 3" = 1'-0" BID ALTERNATE "A"



B TYP. TACTILE SIGN LOCATION AT DOOR
SCALE: 1/4" = 1'-0"

WMB ARCHITECTS
5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

Standard Comfort Station #1
Roseville, CA

WMB Project No. 20-086

LICENSED ARCHITECT
STATE OF CALIFORNIA

PUBLISH HISTORY:

	DATE	PURPOSE
1	08.11.21	PLAN REVIEW 1
2	08.11.21	COORDINATION

CITY OF ROSEVILLE CALIFORNIA
APPROVED FOR CODE COMPLIANCE
BUILDING DIVISION
CONSTRUCTION DRAWINGS MUST BE [illegible]

ACCESSIBILITY, SIGNAGE + PROJECT DATA

T2

Not for Construction
For Council Approval

CALGREEN 2019 COMPLIANCE SCHEDULE MANDATORY MEASURES

	SECTION	REQUIREMENT	PROJECT-SPECIFIC INFORMATION	VERIFICATION: RESPONSIBILITY	VERIFICATION: DOCUMENTATION
5.1 PLANNING + DESIGN					
✓	5.106.1	**Stormwater pollution prevention** – For project sites disturbing less than one acre of land, comply with local ordinances for stormwater management and/or erosion control; and/or implement BMPs for erosion/sediment control.	[add reference to local ordinance; or add reference to spec section of BMPs] N/A – Project does not disturb land.	Jurisdiction	BMP
✓	5.106.4.1.1	**Short-term bicycle parking** – For projects adding ten or more visitor vehicle parking spaces, provide permanently-anchored, readily-visible bicycle racks within 200' of visitors' entrance, equal to 5% of new visitor vehicle capacity (min 2).	Refer to park plans for bicycle rack location and parking calcs.	Jurisdiction	No additional documentation required
	5.106.4.1.2	**Long-term bicycle parking** – For projects adding vehicular parking for 10 or more tenant-occupants, provide secure bicycle parking equal to 5% of the tenant-occupant vehicular parking spaces (min. one bicycle parking facility).	N/A – Project adds no tenant-occupant parking spaces.		
✓	5.106.5.2	**Designated parking for clean air vehicles** – In projects adding 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/vanpool vehicles per Table 5.106.5.2	Refer to park plans for parking calcs.	Jurisdiction	No additional documentation required
✓	5.106.5.3	**Designated parking for charging of electrical vehicles** – At projects containing ten or more vehicle parking spaces, install raceways for future electric vehicle supply equipment – quantity per Table 5.106.5.3.3.	Refer to park plans for parking calcs.	Jurisdiction	No additional documentation required
✓	5.106.8	**Light pollution reduction** – Design and install outdoor lighting systems to comply with the following: - Min. requirements for Lighting Zones 0-4 per CEC - Backlight ratings per IES TM-15-11 - Uplight and Glare ratings per CEC - Allowable BUG (backlight, uplight, glare) ratings per Table 5.106.8 OR comply with local ordinance, whichever is more stringent.	Refer to outdoor illumination information on electrical site plan and/or photometric plan.	Jurisdiction	Product data for installed light fixtures demonstrating compliance with listed standards and design specifications
✓	5.106.10	**Grading and paving** – Indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings.	Refer to park plans.	Jurisdiction / Civil Engineer	No additional documentation required
5.3 WATER EFFICIENCY + CONSERVATION					
	5.303.1.1	**Water meters** – In new buildings or additions in excess of 50,000 s.f., provide separate water meters or submeters for: 1. Each individual tenant space projected to consume more than 100 gal/day 2. Where submeters for individuals tenants is not feasible, add submeters to the following systems: a. Makeup water for cooling towers (where flow through > 500 gpm) b. Makeup water for evaporative coolers (where flow through > 6 gpm) c. Steam and hot-water boilers (where energy input > 500,000 Btu/h)	N/A - Building is smaller than 50,000 s.f.		
	5.303.1.2	**Water meters** – Provide a separate submeter or metering device for any tenant within a new building or addition that is projected to consume more than 1,000 gal/day	N/A – Building contains no tenant spaces.		
✓	5.303.3.1	**Water closet effective flush volume** shall not exceed 1.28 gallons per flush.	Refer to plumbing plans.	Contractor / Installer	No additional documentation required
	5.303.3.2	**Urinal flush volume** shall not exceed: - 0.125 gal/flush at wall-mounted urinals - 0.5 gal/flush at floor-mounted or other urinals	N/A – Project contains no urinals.		
	5.303.3.3.1	**Showerheads** shall have a maximum flow rate of 1.8 gal/min at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA Watersense Specification for Showerheads.	N/A – Project contains no showers.		
	5.303.3.3.2	**Multiple showerheads serving one shower** shall have a combined maximum flow rate of 1.8 gal/min at 80 psi. Or, the shower shall be designed to allow only one showerhead to be in operation at a time.	N/A – Project contains no showers.		
✓	5.303.5	**Areas of addition or alteration** – For occupancies within the authority of the California Building Standards Commission per Section 103, the provisions of Sections 5.303.3 shall apply to new fixtures in additions or areas of alteration to the building.	Refer to plumbing plans.	Contractor / Installer	
✓	5.303.6	**Standards** – Plumbing fixtures and fittings shall be installed in accordance with the CPC, and shall meet applicable standards in Table 1701.1 of the CPC and in Ch. 6 of CGBC.	Refer to plumbing plans.	Contractor / Installer	
✓	5.304.1	**Outdoor potable water use in landscape areas** shall comply with either a local water efficient landscape ordinance, or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.	Refer to park plans.	Jurisdiction	No additional documentation required
5.4 MATERIAL CONSERVATION + RESOURCE EFFICIENCY					
✓	5.407.1	**Weather protection** – Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2, manufacturer's installation instructions, or local ordinance, whichever is more stringent.	Refer to Exterior Wall Schedule on the Notation Floor Plan.	Jurisdiction	No additional documentation required
✓	5.407.2.1	**Moisture control, sprinklers** – Design and maintain landscape irrigation systems to prevent spray on structures.	Refer to park plans.	Jurisdiction	No additional documentation required
✓	5.407.2.2.1	**Moisture control, entries and openings** – At exterior entries and/or openings which are subject to foot traffic or wind-driven rain, prevent water intrusion by: • using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to the opening • providing 4 feet of shelter, through either an awning, an overhang, or a recess	Refer to architectural plans.	Jurisdiction	No additional documentation required
✓	5.407.2.2.2	**Install flashings** integrated with a drainage plane.	Refer to architectural details.	Jurisdiction	No additional documentation required
✓	5.408.1	**Construction waste management** – Recycle and/or reuse 65% min of nonhazardous construction/demolition waste (per Section 5.408.1.1, 5.408.1.2 or 5.408.1.3); or comply with local construction/demolition waste management ordinance, whichever is more stringent.	Specification Section 017419	Contractor	Construction Waste Management Plan + waste/recycling weight tickets and receipts
✓	5.408.1.1	**Construction waste management plan** – Where the local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that complies with Section 5.408.1.1	Specification Section 017419	Contractor	
✓	5.408.3	**Excavated soil and land clearing debris** (trees, stumps, rocks and vegetation) shall be 100% reused or recycled	Specification Section 017419	Contractor	
✓	5.410.1	**Recycling by occupants** – Provide an area identified and used for depositing, storage and collection of non-hazardous recyclable materials.	Refer to Notation Floor Plan.	Jurisdiction	No additional documentation required
	5.410.2	**Commissioning for new buildings 10,000 s.f. and greater:** 1. Owner's Project Requirements (OPR) 2. Basis of Design (BOD) 3. Commissioning Plan 4. Functional Performance Testing 5. Documentation and training 6. Commissioning Report	N/A – Building is smaller than 10,000 s.f.		

	SECTION	REQUIREMENT	PROJECT-SPECIFIC INFORMATION	VERIFICATION: RESPONSIBILITY	VERIFICATION: DOCUMENTATION
✓	5.410.4	**Testing and adjusting of systems** for buildings less than 10,000 s.f.: 1. Develop a written plan of procedures for testing and adjusting HVAC systems and controls, indoor and outdoor lighting and controls, water heating systems, renewable energy systems, landscape irrigation systems, and water reuse systems, if any. 2. Perform testing, adjusting and balancing procedures in accordance with project specifications 3. Provide final report of testing signed by the individual responsible for performing the tests 4. Provide building owner with operation and maintenance manual.	Refer to applicable specifications and notes on mechanical plans.	Contractor / Installer	Final Testing Report
5.5 ENVIRONMENTAL QUALITY					
	5.503.1	**Fireplaces** – Install only direct-vent sealed-combustion gas or sealed wood-burning fireplaces, or a sealed wood stove or pellet stove. Wood stoves and pellet stoves shall comply with U.S. EPA NSPS emission limits.	N/A – Project contains no fireplaces.		
	5.504.1	**Limit use of permanent HVAC system during construction** to condition the building within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, or an average efficiency of 30%, and replace all filters prior to occupancy.	N/A – Building contains no mechanical ventilation systems.		
	5.504.3	**Covering of duct openings and protection of mechanical equipment during construction** – All duct and air distribution component openings shall be covered with tape, plastic, and/or sheet metal during storage and rough installation until final startup in order to reduce the amount of dust and debris which may collect in the system.	N/A – Building contains no mechanical ventilation systems.		
✓	5.504.4.1	**Adhesives, sealants and caulks** shall comply with V.O.C. limits listed in Tables 5.504.4.1 + 5.504.2	Refer to Interior Finish Schedule and Specification Section 079200	Contractor / Installer	Product data for installed materials
✓	5.504.4.3	**Paints and coatings** shall comply with V.O.C. limits listed in Table 5.504.4.3	Refer to Interior Finish Schedule and Specification Section 099100	Contractor / Installer	Product data for installed materials
	5.504.4.4	**Carpet systems** (including carpet cushion) shall meet the testing and product requirements of Carpet and Rug Institute's Green Label Plus Program.	N/A – Project contains no carpet.	Contractor / Installer	Product data for installed materials
✓	5.504.4.5	**Composite wood products** – Hardwood plywood, particleboard, and medium density fiberboard shall comply with formaldehyde emission limits specified in Table 5.504.4.5.	Refer to Interior Finish Schedule and Specification Sections 062000 + 064100	Contractor / Installer	Product data and/or certifications; chain of custody certifications
	5.504.4.6	**Resilient flooring** – For 80% of the floor area receiving resilient flooring, install products complying with the 2014 CA-CHPS criteria and listed in the CHPS High Performance Product Database or certified under the Resilient Floor Covering Institute's FloorScore program. Provide verification of compliance documentation.	N/A – Project contains no resilient flooring.		
	5.504.5.3	**Air filters** – Install air filtration media with a minimum MERV rating of 13 for outside and return air.	N/A – Building contains no mechanical ventilation systems.		
	5.504.7	**Environmental Tobacco Smoke control** – At designated outdoor smoking areas, post signage prohibiting smoking within 25' of building entries, outdoor air intakes, and operable windows; or comply with local or applicable ordinance.	N/A – No designated outdoor smoking area provided.		
✓	5.505.1	**Indoor moisture control** – Buildings shall meet or exceed provisions of California Building Code, CCR, Title 24, Part 2, Section 1202, and Chapter 14.	Refer to notes on mechanical plans.	Jurisdiction	No additional documentation required
✓	5.506.1	**Outside air delivery** for mechanically or naturally ventilated spaces in buildings – Meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.	Refer to notes on mechanical plans.	Jurisdiction	No additional documentation required
	5.506.2	**CO_2 monitoring** – For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed per California Energy Code, Section 120.1(c)(4).	N/A – Building contains no mechanical ventilation systems.		
	5.507.4	**Acoustical control** – Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E90 and ASTM E413 or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332.	N/A – Building occupants not likely to be affected by exterior noise.		
prescriptive method	5.507.4.1	**Prescriptive method** – At the locations listed below, building envelope wall and roof-ceiling assemblies shall have a minimum composite STC rating of 50, and exterior windows shall have a minimum STC rating of 40: • Within the 65 CNEL noise contour of an airport • Within the 65 CNEL or L_{eq} noise contour of a freeway or expressway, railroad, industrial source, or fixed-guideway source			
prescriptive method	5.507.4.1.1	**Noise exposure where noise contours not readily available** – Buildings exposed to a noise level of 65 dB Leq-1-hr during any hour of operation shall have exterior wall and roof-ceiling assemblies exposed to the noise source meeting a minimum composite STC rating of 45, with exterior windows of a minimum STC of 40.			
performance method	5.507.4.2	**Performance method** – For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level of 50dBA in occupied areas during any hour of operation.			
performance method	5.507.4.2.1	**Site features** – Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.			
performance method	5.507.4.2.2	**Documentation of compliance** – An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.			
	5.507.4.3	**Interior sound transmission** – Wall and floor-ceiling assemblies separating tenant spaces from other tenant spaces or public spaces shall have an STC of at least 40.	N/A – Building contains no tenant spaces.		
	5.508.1	**Ozone depletion and greenhouse gas reductions** – Installations of HVAC, refrigeration, and fire suppression shall not contain CFCs or Halons.	N/A – Building contains no HVAC, refrigeration, or fire suppression.		
	5.508.2	**Supermarket refrigerant leak reduction** – New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores that both: • have 8,000 s.f. or more of conditioned area • utilize either refrigerated display cases, walk-in coolers, or walk-in freezers connected to remote compressor units or condensing units	N/A – Project contains no commercial refrigerated display cases, walk-in coolers, or walk-in freezers		

WMB ARCHITECTS

5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

Standard Comfort Station #1
Roseville, CA

WMB Project No. 20-086

LICENSED ARCHITECT
STATE OF CALIFORNIA

PUBLISH HISTORY:

	DATE	PURPOSE
1	08.11.21	PLAN REVIEW 1
2	08.11.21	CO-ORDINATION

CITY OF ROSEVILLE CALIFORNIA
REVIEWED FOR CODE COMPLIANCE
BUILDING DIVISION
CONSTRUCTION DOCUMENTS
PLOT SET OF JOB SITE
By: [illegible] 2021 10:13:15 -0700

CALGREEN COMPLIANCE

T3

Not for Construction
For Council Approval

010000 – GENERAL REQUIREMENTS

1. SUMMARY: This Section describes general requirements that pertain to each Section of these Specifications.
2. COORDINATION OF DOCUMENTS
   a. Documents affecting all Work in this contract and each Section of these Specifications include, but are not limited to, Sections in Division One of these Specifications, the General Conditions of the Contract, and the Supplementary Conditions. These documents must be read with the other Contract Documents and Sections of this Specification as a whole to complete the intent of this contract.
   b. Sections in Division One of these Specifications contain obligations for Work of remaining Sections and must be read with all Sections to identify all the requirements of each Section.
   c. The layout of materials, equipment and systems is generally diagrammatic, unless specific dimensions are indicated. Some work may be shown offset for clarity. The actual location of all materials and systems above and below the ceiling, including but not limited to, piping, ductwork, fixtures, equipment, supports, conduit, suspension wires, ceiling grids and panels, etc., shall be carefully planned and coordinated by the General Contractor prior to installation of any work. The General Contractor shall be responsible for coordinating the architectural, structural, plumbing, mechanical, electrical, and/or other elements of the work.
3. RELATED WORK BETWEEN SECTIONS: This Contract may require several trades to complete the finished intent of the Work. Coordinate the various trades and pertinent sections of these Specifications with the Drawings to ensure proper and timely completion of the Work.
4. QUALITY ASSURANCE
   a. For all Sections of Work in these Specifications and for all tasks and obligations of the Contract, provide skilled work persons thoroughly trained and experienced in the types of construction methods and techniques in each trade required to complete the Work, and who shall be present at all times during the progress of the Work of each trade.
   b. No exception will be made to Contractor nor acceptance given to unacceptable work caused by lack of skill, inappropriate methods, or lack of due care in craftsmanship. The level of performance shall, at a minimum, meet or exceed the level of performance set by a regionally or nationally recognized association that produces, publishes, and enforces industry standards for that trade or craft, unless a higher level of performance is specified herein. All such unacceptable work shall be replaced by the Contractor in a good craftsmen-like manner at no additional expense to the Owner.
5. CODES AND STANDARDS
   a. All Work of this contract shall conform to the latest edition of all pertinent codes and regulations governing the completion of the Work.
   b. Trade association publications and industry standards as published by recognized bodies within each trade shall be references for conducting Work and in inspection of the quality of Work in each Section of these Specifications.
6. CUTTING AND PATCHING
   a. Provide required protection including, but not necessarily limited to, shoring, bracing, and support to maintain structural integrity of the Work.
   b. Perform cutting and demolition by methods which will prevent damage to other portions of the Work and provide proper surfaces to receive installation of repair and new work.
   c. Perform fitting and adjusting of products to provide finished installation complying with the specified tolerances and finishes.
7. SURFACE CONDITIONS
   a. Prior to commencement of Work in any trade, carefully inspect the installed Work of all other trades and verify that all such Work is complete to the point where subsequent Work may properly commence.
   b. Verify the Work to be performed may be installed in strict accordance with all pertinent codes and regulations, the original design, addendum and change orders, approved shop drawings and manufacturers' literature.
8. DISCREPANCIES: In the event of discrepancies in any area of Work, immediately notify the Architect. Do not proceed with installation until all such discrepancies have been fully resolved.
9. SITE DUST CONTROL: Use all means necessary to prevent spread of dust during performance of the Work. Thoroughly moisten all surfaces as required to prevent dust being a nuisance to the public and concurrent performance of other Work on the site.
10. FIELD CONDITION VERIFICATION: The Contractor shall field verify existing field conditions and accept them as conditions of this scope of work.
11. SEPARATE CONTRACTORS: If any part of this Contractor's work depends upon the work of a separate Contractor, this Contractor shall inspect such other work and promptly report in writing to the Architect any defects in such other work that render it unsuitable to receive the work of this Contractor. Failure of this Contractor to so inspect and report shall constitute an acceptance of the other Contractor's work, except as to defects which may develop in other Contractor's work after execution of this Contractor's work.
12. CONSTRUCTION LIMITS
   a. Contractor and Subcontractor work shall be confined within the areas designated as Construction Limits. The Construction Limits shall be set by the Owner's Representative and it shall be the responsibility of the General Contractor and Subcontractors to verify and follow these limits.
   b. The Contractor shall meet with the Owner and the Architect prior to the beginning of the work to establish storage areas for materials and equipment, and access routes for delivery and removal of materials, supplies, equipment, etc. that are required for this work.
13. COMPLETENESS OF WORK: It is the intent of the contract documents that the Contractor shall turn over to the Owner a complete project. Any work not specifically called for or specified but required to comply with the intent of quality and completeness, shall be performed as part of the contract.
14. ENCLOSING OF WORK
   c. Do not allow or cause any of the work performed or installed to be covered up or enclosed by work of this Section prior to all required inspections, tests, and approvals.
   d. Should any of the work be so enclosed or covered up before it has been approved, uncover all such work at no additional cost to the Owner.
   e. After the work has been completely inspected, tested, and approved, make all repairs and replacements necessary to restore the work to the condition in which it was found at the time of uncovering, all at no additional cost to the Owner.

013323 – SUBMITTAL PROCEDURES

1. SUMMARY: Make submittals required by the Contract Documents, and revise and resubmit as necessary to establish compliance with the specified requirements.
2. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions, and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.
3. SHOP DRAWINGS
   a. Scale and measurements: Make Shop Drawings accurately to a scale sufficiently large to show all pertinent aspects of the item and its method of connection to the Work.
   b. Submit Shop Drawings in the form of pdf electronic files of sheet.
   c. Review comments of the Owner's Representative will be shown on marked up electronic pdf file. The Contractor may make and distribute such copies required for his purposes.
4. PRODUCT DATA
   a. Provide pdf electronic files of required product data submittals. Review comments of the Owner's Representative will be on an attached sheet to the submittal data and returned by electronic pdf file.
   b. Where contents of submitted literature from manufacturers includes data not pertinent to the submittal, clearly show which portions of the contents are being submitted for review.
5. HAZARDOUS MATERIALS SAFETY DATA SHEETS
   a. Provide pdf electronic copies of required hazardous materials safety data sheets for each specific material and type
   b. Where contents of submitted literature from manufacturers includes data not pertinent to the submittal, clearly show which portions of the contents are being submitted for review.
6. SAMPLES
   a. Provide Sample or Samples identical to the precise article proposed to be provided. Identify as described under "identification of submittals" below.
   b. Submit Samples in the quantity which is required to be returned to the Contractor, plus three (3) which will be retained by the Owner's Representative.
   c. By prearrangement in specific cases, a single Sample may be submitted for review and, when approved, be installed in the Work at a location agreed upon by the Owner's Representative.
7. MOCK-UPS: Provide mock-ups of material applications and fabrications as identified in various sections of this specification. Mock-up shall be provided in the actual material and finish designated for the application. Make modifications and adjustments as required by the Owner's Representative.
8. COLORS AND PATTERNS: Unless the precise color and pattern is specifically called out in the Contract Documents, and whenever a choice of color or pattern is available in the specified products, submit accurate color and pattern charts to the Owner's Representative for selection.
9. IDENTIFICATION OF SUBMITTALS
   a. Submittals shall be consecutively numbered within each specification section (i.e., 022000, 022001, 022002, ...)
   b. When material is resubmitted for any reason, transmit under a new letter of transmittal and with a new transmittal number. On resubmittals, cite the original submittal number for reference.
   c. Accompany each submittal with a letter of transmittal showing all information required for identification and checking.
   d. The first page of each copy of the submittal must be stamped and signed by the General Contractor. Submittals and shop drawings will not be accepted if they do not have contractor's stamp.
   e. On the first page of the transmittal, and elsewhere as required for positive identification, show the submittal number in which the item was included.
   f. GROUPING OF SUBMITTALS: Make submittals in groups containing all associated items to assure that information is available for checking each item when it is received.
   g. Partial submittals may be rejected as not complying with the provisions of the Contract. The Contractor may be held liable for delays as occasioned.
10. REQUIRED SUBMITTALS

Spec Section		Product Data	Shop Drawings	Samples	Hazardous Materials Safety Sheet	Other
033000	Cast-in-Place Concrete	X	rebar			mix designs
042223	Concrete Unit Masonry	X		X		
055000	Metal Fabrications	X	X			
061000	Rough Carpentry	X		rough sawn decking		
061600	Glu-Laminated Construction	X	X			
072100	Thermal Insulation	X				
074113	Preformed Metal Roofing	X	X	X		
076200	Sheet Metal Flashings and Trim	X	X			
079200	Joint Sealants	X				
081113	Hollow Metal Doors and Frames	X	X			
083313	Overhead Coiling Doors	X	X	X		
085700	Unit Skylights	X	X			
087100	Door Hardware	X	hardware schedule			
099100	Painting Kelly Moore	X		brushouts		
101400	Signage	X	X	X		
102800	Toilet Accessories	X				
220000	Plumbing					
260000	Electrical	X	X			
011000	Site Cleaning					
312200	Excavating, Filling, Compacting and Grading	X				
312333	Trenching, Backfilling and Compacting	X				
321313	Concrete Paving	X				mix designs

055000 – METAL FABRICATIONS

1. SUMMARY: Provide and install all miscellaneous iron and steel items not specifically described in other sections of these specifications but required for a complete and operable facility as shown on the Drawings and specified herein.
2. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions, and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.
3. SUBMITTALS: Make submittals to the Owner's Representative in accordance with the provisions of Section 01 33 23 of these specifications.
4. QUALITY ASSURANCE: Use only certified welders and the shielded arc process for all welding performed in connection with the work of this Section.
5. STEEL TUBING: All steel tubing shall be new, free from rust, and conforming with the requirements of ASTM A-500-B.
6. STEEL PLATE: All steel plate shall be new, free from rust, and conforming with the requirements of ASTM A-36.
7. BOLT AND NUTS: All bolts and nuts shall be new, free from rust, and conforming with the requirements of A-307.
8. UNISTRUT METAL FRAMING: 1-5/8" P1000 Unistrut metal framing system, or other sizes as specifically detailed on the Drawings, with associated fittings, nuts, clips, rods, etc. as required for detailed application. Pennagreen finish to accept paint.
9. EXPANDED METAL: Expanded metal shall be carbon steel bond shearing 4" diamond pattern, 10 gauge, 6'9 flattened, by McNichols Company or equal.
10. BOLLARD: 4.5" dia x 36" high 11 gauge steel bollard with 16"w 8"x8" steel base plate: finish safety yellow with black cap. U-Line # H2116B 800-295-5510.
11. PRIMER PAINT: All primer paint shall be compatible with the finish coats specified in Section 099100 of these Specifications except that, where no finish coats are required, all primer paint shall be "Tnemec 99R", a primer meeting the requirements of Federal Specification TT-P-615(d), type I, or an equal approved in advance by the Owner's Representative.
12. OTHER MATERIALS: All other materials, not specifically described but required for a complete and proper installation of miscellaneous metal, shall be new, free from rust, best quality of their respective kinds, and subject to the approval of the Owner's Representative.
13. SURFACE CONDITIONS: Make all required measurements in the field to ensure proper and adequate fit of miscellaneous metal items. Verify that miscellaneous metal may be fabricated and installed in strict accordance with the original design and the approved Shop Drawings.
14. FABRICATION
   a. Fabricate all miscellaneous metal in strict accordance with the approved Shop Drawings and the referenced standards.
   b. Insofar as possible, shop prefabricate all items complete and ready for installation.
   c. Welding
      i. Unless otherwise indicated on the Drawings, weld all shop connections.
      ii. Make all joints and intersections of metal light fitting and securely fastened.
      iii. Make all work square, plumb, straight and true.
      iv. All welds to be ground smooth.
      v. Reference AWS D1.1 for types of materials being welded.
   d. Holes: Drill or punch all holes required for all the attachment of work of other trades for bolted connections. Burned holes are not acceptable.
   e. Workmanship
      i. Form exposed work true to line and level with accurate angles and surfaces and straight, sharp edges.
      ii. Ease exposed edges to a radius of approximately 1/32 inch, unless indicated otherwise.
      iii. Form bent-metal corners to the smallest radius possible without causing grain separation or otherwise impairing the work.
      iv. Weld corners and seams continuously, complying with AWS recommendations. At exposed connections, grind exposed welds smooth and flush to match and blend with adjoining surfaces. Welds to be imperceptible in finished work.
      v. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners wherever possible.
   f. Assemblies
      i. Use materials of sizes and thickness indicated or required to produce strength and durability in finished product for use intended.
      ii. Work to dimensions indicated.
      iii. Fit and shop assemble in largest practical sections for delivery to site.
      iv. Cut, reinforce, drill and tap miscellaneous metal work as required to receive finished hardware and similar items.
      v. Exposed mechanical fasteners: When application will not permit concealed fasteners, locate exposed fasteners in unobtrusive manner, consistent with design of component, except where specifically noted otherwise. Use Phillips flat-head countersunk screws or bolts for exposed fasteners.
      vi. Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.
      vii. Fabricate joints exposed to the weather to be weather tight and provide weep holes as required.
   g. Continuously seal joined members by continuous welds.
15. SHOP PAINTING
   a. Preparation
      Thoroughly clean all metal as described in Section 09 91 00 of these Specifications
      ii. Provide all required protection for metal to be encased in concrete to prevent accumulation of deleterious foreign material.
   b. Shop prime all steel except:
      i. Steel to be encased in concrete or masonry.
      ii. Surfaces to be welded.
16. ERECTION
   a. Erect and install all miscellaneous metal in strict accordance with the Drawings, the approved Shop Drawings, and the referenced standards, aligning straight, plumb, and level within a tolerance of one in 200.
   b. After the erection and installation are complete, touch-up all shop priming coats damaged during transportation and erection, using the priming paint specified for shop priming.

072100 – THERMAL INSULATION

1. SUMMARY: Provide and install building insulation as shown on the Drawings and specified herein including but not necessarily limited to rigid insulation over wood roof decking.
2. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.
3. SUBMITTALS: Make submittals to the Owner's Representative in accordance with the provisions of Section 01 33 23 of these specifications.
4. CODES AND STANDARDS: All building insulation materials shall conform to the certified requirements and shall be installed to meet flame and smoke spread density requirements of State of California Title 24.
5. BUILDING INSULATION
   a. All glass fiber building insulation except as noted herein shall be the product of Owens/Corning Fiberglas, Certain-Teed or an equal approved in advance by the Owner's Representative. All glass fiber batts shall be formaldehyde-free type insulation.
   b. Sloped Roof : At all roofs where noted on the Drawings furnish and install 1 ½" thick FORMULAR THERMAPINK 25 extruded polystyrene rigid foam insulation complying with ASTM C578 having a thermal resistance "R" value of 5.9 per inch; Flame Spread – 10: Smoke developed- 45-175 per test complying with ASTM E84
6. OTHER MATERIALS: All other materials such as fasteners and retainers, not specifically described but required for a complete and proper installation of building insulation, shall be as recommended by the manufacturer, selected by the Contractor subject to the approval of the Owner's Representative.
7. INSTALLATION
   a. Except as otherwise specifically directed by the Owner's Representative, install building insulation in accordance with the current edition of the Owens/Corning Fiberglas publication FOAMULAR & FOAMULAR NGX XPS INSULATION Commercial Roof Installation Instructions.
   b. Install insulation in areas and in thicknesses indicated or required to produce R-values indicated. Cut and fit tightly around obstructions and fill voids with insulation.
8. INSPECTION
   a. Upon completion of the installation, visually inspect each insulated area and verify that all insulation is complete and properly installed.

074113 – PREFORMED METAL ROOFING

1. SUMMARY: Provide and install preformed metal roofing system for pitched roofs and fascia panels as shown on the Drawings and specified herein complete with anchorages, related flashings and accessory components. Provide and install building felt underlayment over wood sheathed decks.
2. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.
3. SUBMITTALS
   a. Make submittals to the Owner's Representative in accordance with the provisions of Section 01 33 23 of these specifications.
   b. Shop Drawings: Clearly indicate dimensioning, panel layout, general construction details, anchorages, and method of anchorage, method of installation.
4. DESIGN CRITERIA
   a. Design system to provide movement of components without causing buckling, failure of joint seals, undue stress on fasteners or other detrimental effects, when subject to seasonal temperature ranges.
   b. Design system to accommodate tolerances of structure, provided irregularities do not exceed them and clearances are maintained.
   c. Provide for positive drainage to exterior, any water entering or condensation occurring within preformed metal panel system.
5. REFERENCE STANDARDS
   a. ASTM D8751- 306 Reinforced Asphalt-Saturated Roofing Felts.
   b. ASTM A653 - Steel Sheet, Zinc Coated (Galvanized) by the Hot-dip Process, Physical (Structural) Quality.
   c. ASTM A924 - Steel Sheet, Zinc Coated (Galvanized) by the Hot-dip Process, General Requirements.
6. ACCEPTABLE MANUFACTURERS: Substitutions: Items of same function and performances are acceptable in conformance with Section 01 33 23.
7. PREFORMED PANEL ROOFING
   a. Roof System
      i. Design Span by AEP Span a Blue Scope Steel Company.
      ii. 24 Ga 12" wide panels with vented ridge cap
   b. Provide all flashings, hold-down clips, anchorages, battens and accessory components to match panel finish and to provide complete installation.
   c. Surface Finish: Baked enamel finish color Kynar 500 as selected by Owner's Representative.
8. ACCESSORY MATERIALS
   a. Sealants and Gaskets: Manufacturer's standard type suitable for use in conjunction with installation of panel roofing; non-staining; non-corrosive; non-shrinking and non-sagging; ultra-violet and ozone resistant for exterior applications.
   b. Fasteners: Manufacturer's standard type, galvanized to ASTM A-525 2.15 oz/ft (380 g/sq meter), to suit application; stainless as recommended by the manufacturer, finish to match panel roofing when exposed.
   c. Roofing Underlayment, building paper: Laid dry 30-pound ASTM D8797, Type II, reinforced, unperforated asphalt saturated felts.
9. COMPONENT FABRICATION
   a. Internal and External Corner: Same materials, material thickness and finish as roof; of profile as detailed. Exposed corners are to have same finish as siding.
   b. Flashings, Vented Ridge, Closure Pieces, Fascia, Infills, Caps: Same material, and where exposed of same sheet stock; break formed to required profiles.
   c. Anchorage Members: Minimum 22-gauge thick galvanized steel.
10. INSTALLATION
   a. Install one (1) layer underlayment horizontally on surfaces to receive preformed metal panels. Weather lap edges minimum six (6) inches (152 mm). Lap ends minimum 12 inches. Stagger vertical joints of each layer and joints of one layer to next. Securely staple building paper in place
   b. Install preformed metal panels on roofs in accordance with manufacturer's recommendations.
   c. Fabrication of exposed components on site is not permitted.
   d. Exercise care when cutting panels on site, to ensure cuttings do not remain on finish surfaces.
   e. Protect surfaces in contact with cementitious materials and other dissimilar metals with bituminous paint. Allow protective coating to dry prior to installation.
   f. Permanently fasten roofing system to structural supports, properly aligned, leveled and plumb. Maximum offset from true alignment between adjacent members butting or in line to be 1/16 inch (1.6 mm). Maximum variation from plane or location indicated on drawings to be 1/8 inch (3.2 mm).
   g. Locate and tape over supports. End lap panels minimum 2 inches (51 mm). Ensure sidelaps are over firm bearings.
   h. Use concealed fasteners in all locations except where approved by the Owner's Representative.
   i. Install sealant and gaskets where required to assist direct weather penetration.
   j. Completed installation is to be free of rattles and noise due to thermal movement and wind whistling.

076200 – SHEET METAL FLASHINGS AND TRIM

1. SUMMARY: Provide and install all flashing and sheet metal not specifically described in other Sections of these Specifications but required to prevent penetration of water through exterior shell of the buildings and all sheet metal flashing and caps as shown on the Drawings and specified herein.
2. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.
3. SUBMITTALS: Make submittals to the Owner's Representative in accordance with the provisions of Section 01 33 23 of these specifications.
4. QUALITY ASSURANCE: All sheet metal work shall be fabricated and installed per the standard details and specifications as illustrated in Sheet Metal Manual by Sheet Metal and Air Conditioning National Association, Inc. (SMACNA).
5. MATERIALS AND GAUGES: Where sheet metal is required and no material or gauge is indicated on the Drawings, furnish and install the highest quality and gauge commercially with the referenced standards. All miscellaneous sheet metal shall be galvanized.
6. GALVANIZED IRON: Sheet metal or iron shall be standard brand of open-hearth copper-bearing steel, copper-molybdenum iron, or pure iron sheets. All galvanized sheets shall have a zinc coating applied by hot-dip process to all surfaces. Zinc coating shall weigh not less than 1-1/4 ounces per square foot nor more than 1-1/2 ounces per square foot of surfaces covered and shall conform with ASTM A-93.
7. NAILS, RIVETS, AND FASTENERS: Use only soft iron rivets having rust-resistive coating, galvanized hot-dipped nails, and cadmium plated screws and washers in connection with galvanized iron and steel.
8. FLUX: All flux used for galvanized iron or steel shall be rew muriatic acid.
9. SOLDER: All solder used on galvanized sheet steel shall conform with the current ASTM B-32.
10. OTHER MATERIALS: All other materials, not specifically described but required for a complete and proper installation of flashing and sheet metal, shall be new, first quality of their respective kinds and subject to the approval of the Owner's Representative.
11. WORKMANSHIP:
   a. Form all sheet metal accurately to the dimensions and shapes required, finishing all molded and broken surfaces with true, sharp, and straight lines and angles and, where intercepting other members, coping to an accurate fit and soldering securely.
   b. Unless otherwise specifically permitted by the Owner's Representative, turn all exposed edges back 1/2 inch.
   c. Expansion: Form, fabricate, and install all sheet metal so as to adequately provide for expansion and contraction in the finished Work per SMACNA standards.
   d. Weatherproofing: Finish watertight and weather tight where so required. Make all lock seam work flat and true to line and sweated full of solder. Make all lock seams and lap seams, when soldered, at least 1/2 inch wide. Where lap seams are not soldered, lap according to pitch but in no case less than three inches. Make all flat and lap seams in direction of flow.
   e. Joints: Join parts with rivets or sheet metal screws where necessary for strength or stiffness. Provide suitable watertight expansion joints for all runs of more than 40 feet except where closer spacing is indicated on the Drawings or required for proper installation.
   f. Nailing: Wherever possible, secure metal by means of clips or cleats without nailing through the metal. In general, space all nails, rivets, and screws not more than eight inches apart, and, where exposed to the weather, use lead washers. For nailing into wood, use barbed roofing nails 1-1/4 inches long by eleven gauge. For nailing into concrete, use drilled plugholes and plugs.
12. EMBEDMENT: Embed all metal in connection with roofs in a solid bed of caulking, using materials and methods described in Section 07 92 00 of these Specifications.
13. SOLDERING: Thoroughly clean and tin all joint materials prior to soldering. Perform all soldering slowly with a well heated copper in order to heat the seams thoroughly and to completely fill them with solder. Perform all soldering with a hand soldering copper of blunt design, properly tinned for use. Make all exposed soldering on finished surfaces neat, full, flowing, and smooth. After soldering, thoroughly wash acid flux with a soda solution.
14. TESTS: At the completion of the job, demonstrate to the Owner's Representative by hose or standing water that all flashing and sheet metal is completely watertight.

079200 – JOINT SEALANTS

1. SUMMARY: Provide a positive barrier against penetration of air and moisture at joints between items where sealing is essential to continued integrity of the barrier. Such sealing will normally be performed under the work of various Sections of these Specifications but shall be performed in strict accordance with the provisions of this Section. Install as shown on the Drawings and specified herein.
2. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.
3. SUBMITTALS
   a. Make submittals to the Owner's Representative in accordance with the provisions of Section 01 33 23 of these specifications.
   b. Samples: Submit three 12" long samples of each color required (except black) for each type of sealant exposed to view.
4. AIR POLLUTANT CONTROL REQUIREMENTS
   a. Per Section 5.504.4.1 of the 2013 California Green Building Standards Code, sealants and caulks used on the project shall meet the requirements of the following standards:
      i. Sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Table 5.504.4.2 of the 2013 California Green Building Standards Code. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene).
5. SEALANT MATERIALS
   a. Vertical Surfaces, Hybrid Sealant: MasterSeal NP 150 low-modulus, non-sag premium-grade elastomeric hybrid sealant by Master Builders Solutions (BASF Corporation), or equal. Color selected by Owner's Representative.
   b. Horizontal Concrete Joints: MasterSeal SL2 two-component polyurethane sealant by Master Builders Solutions (BASF Corporation), or equal. Color selected by Owner's Representative.
   c. Backing Material
      i. Cylindrical sealant backings: ASTM C1330, type as recommended in writing by sealant manufacturer for joint application indicated and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
      ii. Bond breaker tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer.
6. SEALANT EQUIPMENT: All equipment shall be only such equipment as is specifically recommended by the manufacturer of the sealant material being installed.
7. CHOICE OF SEALANT MATERIAL: Use only that sealant material which is best suited to the installation and is so recommended by the sealant material manufacturer.
8. GENERAL EXECUTION: Comply with joint sealant manufacturer's printed installation instructions applicable to products and applications indicated, except where more stringent requirements apply.
9. BACK-UP MATERIALS
   a. All joints over 3/8" wide shall have back-up filler. Verify the compatibility of filler material with sealant before installation. Use back-up filler about 1/3 to 1/2 wider than width of joint so sufficient pressure is exerted by filler to provide substantial resistance to displacement.
   b. Acceptable materials: All filler materials shall be non-oily, non-staining back-up filler such as polyethylene foam rod, expanded polyurethane, neoprene, or other filler completely compatible with the sealant material.
10. APPLICATION OF SEALANT
   a. General: Do not seal under weather conditions or sun conditions potentially harmful to the set and curing of the sealant material.
   b. Preparation: Clean joint surfaces immediately before installation of sealant. Remove dirt, insecure coatings, moisture and other substances which could interfere with bond of sealant. Etch concrete and masonry joint surfaces as recommended by sealant manufacturer. Roughen vitreous and glazed joint surfaces as recommended by sealant manufacturer.
   c. Priming: Prime joint surfaces where recommended by sealant manufacturer. Do not allow primer to spill or migrate onto adjoining surfaces.
   d. Installation: Install sealant in strict accordance with the manufacturer's recommendations, taking care to produce beads of proper width and depth, tool as recommended by the manufacturer, and immediately remove all surplus sealant.
      i. Where an irregular surface or sensitive joint border exists apply masking tape at edges of joint to insure neatness and protection. Remove masking tape prior to sealant setting.
      ii. Surfaces: Do not allow sealants or primers to overflow or spill onto adjoining surfaces. Immediate wipe voids of adjoining surfaces. Clean adjoining surfaces by whatever means may be necessary to eliminate evidence of spillage.
11. SEALANT SCHEDULE: Carefully study the Drawings and furnish and install the proper sealant in each joint where called for on the Drawings plus at all other points where sealing is essential in order to achieve continued integrity of the water-tight barrier including but not limited to:
   a. Exterior expansion and control joints.
   b. Exterior sills, jambs and heads of window frames, door frames, louvers and similar openings, and between metal, wood or other materials abut or join masonry, complete with backing materials.
   c. Exterior horizontal control and expansion joints in concrete slabs-on-grade.
   d. Interior expansion and control joints.
   e. Interior horizontal control and expansion joints in concrete slabs.

WMB ARCHITECTS

5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

Standard Comfort Station #1

Roseville, CA

WMB Project No. 20-086

LICENSED ARCHITECT
JAMES W. WOMACK
No. C-19677
STATE OF CALIFORNIA

PUBLISH HISTORY:

	DATE	PURPOSE
1	05.13.21	100% CD
1	08.11.21	PLAN REVIEW 1
2	08.18.21	AGENCY REVIEW

SHEET SPECIFICATIONS

A0.1

Not for Construction
For Council Approval

081113 – HOLLOW METAL DOORS AND FRAMES

1. SUMMARY: Provide and install hollow metal doors and frames as shown on the Drawings and specified herein.
2. CODES AND REFERENCES: Comply with the version year adopted by the Authority Having Jurisdiction.
   a. ANSI/SDI A250.8 - Recommended Specifications for Standard Steel Doors and Frames.
   b. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames, Frames Anchors and Hardware Reinforcing.
   c. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames.
   d. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames.
   e. ANSI/SDI A250.11 - Recommended Erection Instructions for Steel Frames.
   f. ANSI/SDI A250.13 - Testing and Rating of Severe Windstorm Resistant Components for Swing Door Assemblies.
   g. ASTM A1008 - Standard Specification for Steel Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
   h. ASTM A653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
   i. ASTM A924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
   j. ANSI/BHMA A156.115 - Hardware Preparation in Steel Doors and Frames.
   k. ANSI/SDI 122 - Installation and Troubleshooting Guide for Standard Steel Doors and Frames.
3. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.
4. SUBMITTALS
   a. Product Data: For each type of product indicated. Include construction details, material descriptions, core descriptions, hardware reinforcements, profiles, anchors, fire-resistance rating, and finishes.
   b. Shop Drawings: Include the following:
      i. Elevations of each door design.
      ii. Details of doors, including vertical and horizontal edge details and metal thicknesses.
      iii. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
      iv. Locations of reinforcement and preparations for hardware.
      v. Details of anchorages, joints, field splices, and connections.
      vi. Details of accessories.
      vii. Details of conduit and preparations for power, signal, and control systems.
5. QUALITY ASSURANCE
   a. Source Limitations: Obtain hollow metal doors and frames through one source from a single manufacturer wherever possible.
   b. Quality Standard: In addition to requirements specified, comply with ANSI/SDI A250.8, latest edition, "Recommended Specifications for Standard Steel Doors and Frames".
6. DELIVERY, STORAGE, AND HANDLING
   a. Deliver hollow metal work palletized, wrapped, or crated to provide protection during transit and Project site storage. Do not use non-vented plastic.
   b. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.
   c. Store hollow metal work under cover at Project site. Place in stacks of five units maximum in a vertical position with heads up, spaced by blocking, on minimum 4-inch high wood blocking. Do not store in a manner that traps excess humidity. Provide minimum 1/4-inch space between each stacked door to permit air circulation. Door and frames to be stacked in a vertical upright position.
7. PROJECT CONDITIONS: Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.
8. COORDINATION: Coordinate installation of anchorages for hollow metal frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.
9. WARRANTY: Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period. Warranty shall include installation and finishing that may be required due to repair or replacement of defective doors.
10. MANUFACTURERS
    a. Manufacturers: Subject to compliance with requirements, provide products by one of the following: CECO Door Products; Curries Company or Security Metal Products.
11. MATERIALS
    a. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B; suitable for exposed applications.
    b. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.
    c. Frame Anchors: ASTM A 653/A 653M, Commercial Steel (CS), Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.
12. STANDARD HOLLOW METAL DOORS
    a. General: Provide 1-3/4-inch doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces unless otherwise indicated. Comply with ANSI/SDI A250.8.
    b. Exterior Doors: Face sheets fabricated of 16-gauge commercial quality hot-dipped zinc coated steel that complies with ASTM A 653/A 653M, Coating Designation A60. Provide doors complying with requirements indicated below by referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level:
       i. Basis of Design: Flush panel; CECO Legion Services Full Flush Door.
       ii. Core Construction: Manufacturer's standard polystyrene. Where indicated, provide doors fabricated as thermal-rated assemblies with a minimum R-value of 2.8 or better.
       iii. Top and Bottom Edges: Reinforce tops and bottoms of doors with a continuous steel channel not less than 16 gauge, extending the full width of the door and welded to the face sheet. Doors with an inverted top channel to include a steel closure channel, screw attached, with the web of the channel flush with the face sheets of the door. Plastic or composite channel fillers are not acceptable.
       iv. Hinge Reinforcement: Minimum 7-gauge (3/16") plate 1-1/4" x 9" or minimum 14-gauge continuous channel with pierced holes, drilled and tapped.
       v. Hardware Reinforcements: Fabricate according to ANSI/SDI A250.6 with reinforcing plates from same material as door face sheets.
13. STANDARD HOLLOW METAL FRAMES
    a. General: Comply with ANSI/SDI A250.8 and with details indicated for type and profile.
    b. Exterior Frames: Fabricated of 16 gauge hot-dipped zinc coated steel that complies with ASTM A 653/A 653M, Coating Designation A60.
       i. Fabricate frames with mitered or coped corners.
       ii. Fabricate frames, with "closed and tight" miter seams continuously welded on face, finished smooth with no visible seam unless otherwise indicated.
       iii. Manufacturers Basis of Design: CECO Door Products S-Series.

    Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 with reinforcement plates of minimum steel thickness set forth in ANSI/SDI A250.6 Table 1
14. FRAME ANCHORS
    a. Jamb Anchors - Masonry Type: Adjustable strap-and-stirrup or T-shaped anchors to suit frame size, formed from A60 metallic-coated material, not less than 0.042-inch-thick, with corrugated or perforated straps not less than 2 inches wide by 10 inches long; or wire anchors not less than 0.177 inch thick.
    b. Floor Anchors: Floor anchors to be provided at each jamb, formed from A60 metallic-coated material, not less than 0.042 inches thick.
    c. Mortar Guards: Formed from same material as frames, not less than 0.016 inches thick.
15. ACCESSORIES: Grout Guards: Formed from same material as frames, not less than 0.016 inches thick.
16. FABRICATION
    a. Fabricate hollow metal work to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. When shipping limitations so dictate, frames for large openings are to be fabricated in sections for splicing or splicing in the field by others.
    b. Tolerances: Fabricate hollow metal work to tolerances indicated in ANSI/SDI A250.8.
    c. Hollow Metal Doors: Exterior Doors: Provide optional weep-hole openings in bottom of exterior doors to permit moisture to escape where specified.
    d. Hollow Metal Frames
       i. Shipping Limitations: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.
       ii. Welded Frames: Weld flush face joints continuously; grind, fill, dress, and make smooth, flush, and invisible.
          1. Welded frames are to be provided with two steel spreaders temporarily attached to the bottom of both jambs to serve as a brace during shipping and handling. Spreader bars are for bracing only and are not to be used to size the frame opening.
       iii. Welded frames are to be provided with two steel spreaders temporarily attached to the bottom of both jambs to serve as a brace during shipping and handling. Spreader bars are for bracing only and are not to be used to size the frame opening".
       iv. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated for removable stops, provide security screws at exterior locations.
       v. Mortar Guards: Provide guard boxes at back of hardware mortises in frames at all hinges and strike preps regardless of grouting requirements.
       vi. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
       vii. Jamb Anchors: Provide number and spacing of anchors as follows:
          1. Masonry Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:
             a. Two anchors per jamb up to 60 inches high.
             b. Three anchors per jamb from 60 to 90 inches high.
             c. Four anchors per jamb from 90 to 120 inches high.
             d. Four anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 120 inches high.
    e. Hardware Preparation: Factory prepare hollow metal work to receive template mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to the Door Hardware Schedule and templates furnished as specified in Division 08 Section "Door Hardware".
       i. Locate hardware as indicated, or if not indicated, according to ANSI/SDI A250.8.
       ii. Reinforce doors and frames to receive non-template, mortised and surface mounted door hardware.
       iii. Comply with applicable requirements in ANSI/SDI A250.6 and ANSI/DHI A115 Series specifications for preparation of hollow metal work for hardware.
       iv. Coordinate locations of conduit and wiring boxes for electrical connections with Division 26 Sections.
17. STEEL FINISHES
    a. Prime Finishes: Doors and frames to be cleaned, and chemically treated to insure maximum finish paint adhesion. Surfaces of the door and frame exposed to view to receive a factory applied coat of rust inhibiting shop primer.
    b. Shop Primer: Manufacturer's standard, fast-curing, lead and chromate free primer complying with ANSI/SDI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; and compatible with substrate and field-applied coatings.
18. EXAMINATION
    a. Examine substrates, areas, and conditions, with installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
    b. General Contractor to verify the accuracy of dimensions given to the steel door and frame manufacturer for existing openings or existing frames (sills/head height, king spacing, hinge bore set, etc.).
    c. Proceed with installation only after unsatisfactory conditions have been corrected.
19. PREPARATION
    a. Remove welded in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces
    b. Prior to installation, adjust and securely brace welded hollow metal frames for squareness, alignment, twist, and plumbness.
    c. Tolerances shall comply with SDI-117 "Manufacturing Tolerances Standard Steel Doors and Frames".
    d. Drill and tap doors and frames to receive non-template, mortised, and surface-mounted door hardware.
20. INSTALLATION
    a. General: Install hollow metal work plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.
    b. Hollow Metal Frames: Install hollow metal frames of size and profile indicated. Comply with ANSI/SDI A250.11 and NFPA 80 at fire rated openings.
       i. Set frames accurately in position, plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete and frames properly set and secured, remove temporary braces, leaving surfaces smooth and undamaged. Shim as necessary to comply with installation tolerances.
       ii. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor, and secure with post-installed expansion anchors.
       iii. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with mortar.
       iv. Grout Requirements: Do not grout head of frames unless reinforcing has been installed in head of frame. Do not grout vertical or horizontal closed mullion members.
    c. Hollow Metal Doors: Fit hollow metal doors accurately in frames, within clearances specified below. Shim as necessary. Standard Steel Doors:
       i. Jambs and Head: 1/8 inch plus or minus 1/16 inch.
       ii. Between Edges of Pairs of Doors: 1/8 inch plus or minus 1/16 inch.
       iii. Between Bottom of Door and Top of Threshold: Maximum 3/8 inch.
       iv. Between Bottom of Door and Top of Finish Floor (No Threshold): Maximum 3/4 inch.
21. ADJUSTMENT AND CLEANING
    a. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow metal work that is warped, bowed, or otherwise unacceptable.
    b. Remove grout and other bonding material from hollow metal work immediately after installation.
    c. Prime-Coat and Painted Finish Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat or painted finishes, and apply touchup of compatible air drying, rust-inhibitive primer, zinc rich primer (exterior and galvanized openings) or finish paint.

083313 – OVERHEAD COILING DOORS

1. SUMMARY: Provide and install overhead coiling doors as shown on the Drawings and specified herein.
2. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.
3. SUBMITTALS: Make submittals to the Owner's Representative in accordance with the provision of Section 013323 of these specifications.
4. OVERHEAD COILING DOORS
   a. Coiling Counter Door shall be Model 651, Stainless Steel. Face of Wall Mounted as manufactured by The Overhead Door Company, Sacramento CA. (800) 929-3667.
      i. Furnished materials shall include all curtains, bottom bars, guides, brackets, hoods, and operating mechanisms. .
      ii. All push up counter doors shall open and close with a maximum of 30# of effort utilizing finger slts in the bottom bar.
      iii. The push up door shall be secured by means of a concealed sliding bolt deadlock in the bottom bar operated by a thumb turn
   b. Coiling Roll-up Door shall be Model 610, 20 Ga Galvanized Sheet C-157 Slats, Face of Wall Mounted, manual push-up as manufactured by The Overhead Door Company, Sacramento CA. (800) 929-3667..
      i. Furnished materials shall include all curtains, bottom bars with weather seal, three structural steel angle PowderGuard guides, brackets, hoods, and operating mechanisms.
      ii. Finish: PowderGuard Premium powder coat finish, color as selected by Owner's Representative from manufacturers approximately 200 standard powder coat colors.
5. FABRICATION: Fabricate Coiling Overhead and Counter doors in strict accordance with the approved Shop Drawings.
6. INSTALLATION: Install all doors in strict accordance with the original design, all pertinent codes and regulations, the approved Shop Drawings, and the manufacturer's recommendations anchoring all components firmly in place for long life under hard use.
7. INSTRUCTIONS: Upon completion of the installation, and as a condition of its acceptance, instruct the Owner's maintenance and operation personnel with the operation and maintenance of the push up counter door.

085200 – UNIT SKYLIGHTS

1. SUMMARY: Provide and install unit skylights as indicated on the Drawings and specified herein.
2. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.
3. SUBMITTALS: Make submittals to the Owner's Representative in accordance with the provisions of Section 01 33 23 of these specifications.
4. FIRE-TEST-RESPONSE CHARACTERISTICS OF PLASTIC GLAZING
   a. Labeled by a testing and inspecting agency acceptable to authorities having jurisdiction based on testing indicated below:
      i. Self-Ignition Temperature: 650 deg F (343 deg C) or greater when tested per ASTM D 1929.
      ii. Smoke-Developed Index or Smoke Density: 450 or less when tested per ASTM E 84 or 75 or less when tested per ASTM D 2843.
      iii. Relative-Burning Characteristics: Class CC2 when tested per ASTM D 635.
5. SKYLIGHTS
   a. Manufacturer: SUNOPTICS Skylights and Daylighting Systems (800)-289-4700
   b. Product : Frame Model 800MD , 2040 Double Hip Fixed Skylight, mounted on site-built curb.
   c. Aluminum: ASTM B 209 (ASTM B 209M) sheet; ASTM B 221 (ASTM B 221M) extrusions.
   d. Acrylic Glazing: ASTM D 4802, thermoformable, monolithic sheet, category as standard with manufacturer, Type UVA (formulated with UV absorber), Finish 1 smooth
      i. Double-Glazing Profile: Double Hip .
      ii. Double-Glazing Color: Outer Glazing, Colorless: Inner Glazing White
   e. Fabrication: Factory assemble unit with an extruded-aluminum glazing retainer, gasketing, self-contained flashing, and integral gutters with weeps for condensation control.
   f. Thermal Break: Fabricate unit skylights with thermal barrier separating interior metal framing from materials exposed to outside temperature.
   g. Aluminum Finish: Color anodic-Bronze, Architectural Class I: AA-M12C22A42/A44, complying with
6. INSTALLATION
   a. Comply with NRCA's "Roofing and Waterproofing Manual." Coordinate with installation of roof insulation, roofing, and flashing as required to ensure combined elements are waterproof and weathertight.
   b. Isolate metal surfaces in contact with incompatible metal or corrosive substances, including wood, with bituminous coating on concealed metal surfaces.

087100 - DOOR HARDWARE

1. SUMMARY: This Section includes commercial door hardware for the following: Swinging doors.
   a. "Hardware groups" have been assigned to the various doors required for this work. Provide and install all finish hardware described in the Hardware Schedule and all other finish hardware not described but required for a complete and operable facility.
   b. Door hardware includes, but is not necessarily limited to, the following:
      i. Mechanical door hardware.
      ii. Electromechanical door hardware, power supplies, back-ups and surge protection.
2. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.
3. SUBMITTALS
   a. Make submittals to the Owner's Representative in accordance with the provisions of Section 01 33 23 of these Specifications.
   b. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
   c. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
   d. Shop Drawings: Details of electrified access control hardware indicating the following:
      i. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
         1. Elevation diagram of each unique access-controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
         2. Complete (risers, point-to-point) access control system block wiring diagrams.
      ii. Electrical Coordination: Coordinate with related Division 26 Electrical Sections the voltages and wiring details required at electrically controlled and operated hardware openings.
   e. Keying Schedule: Prepared under the supervision of the Owner, separate schedule detailing final keying instructions for locksets and cylinders in writing. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner to approve submitted keying schedule prior to the ordering of permanent cylinders.
4. QUALITY ASSURANCE
   a. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction
      i. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
      ii. ASTM E330 - Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure difference.
      iii. ICC/IBC - International Building Code.
      iv. NFPA 70 - National Electrical Code.
      v. NFPA 101 - Life Safety Code.
      vi. TAS-201-94 - Impact Test Procedures.
      vii. TAS-202-94 - Criteria for Testing Impact and Non-Impact Resistant Building Envelope Components using Uniform Static Air Pressure.
      viii. TAS-203-94 - Criteria for Testing Products Subject to Cyclic Wind Pressure Loading.
      ix. California Building Code
   b. Standards: All hardware specified herein shall comply with the following industry standards: ANSI/BHMA Certified Product Standards - A156 Series.
   c. Keying Conference: Conduct conference to coordinate with Owner's Representative requirements. Keying conference to incorporate the City of Roseville Master Key Schedule and the following criteria into the final keying schedule document:
      i. Function of building, purpose of each area and degree of security required.
      ii. Plans for existing and future key system expansion.
      iii. Requirements for key control storage and software.
      iv. Installation of permanent keys, cylinder cores and software.
      v. Address and requirements for delivery of keys.
5. COORDINATION
   a. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
   b. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware.
   c. Door and Frame Preparation: Related Division 08 Sections (Hollow Metal Steel) doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.
6. WARRANTY
   a. Warranty Period: Written warranty, executed by the manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
      i. Structural failures including excessive deflection, cracking, or breakage.
      ii. Faulty operation of the hardware.
      iii. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
      iv. Electrical component defects and failures within the systems operation.
   b. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.
   c. Special Warranty Periods
      i. Ten years for mortise locks and latches.
      ii. Twenty-five years for manual surface door closers.
      iii. Two years for electromechanical door hardware.
7. MAINTENANCE SERVICE
   a. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.
   b. Continuing Service: Beginning at Substantial Completion, and running concurrent with the specified warranty period, provide continuous (6) months full maintenance including repair and replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper door opening operation. Provide parts and supplies as used in the manufacture and installation of original products.
8. SCHEDULED DOOR HARDWARE
   a. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.
      i. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets in paragraph 2B are identified by using door hardware designations, as follows:
         1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.
   b. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the Owner's Representative, owner, and their designated consultants.
9. HANGING DEVICES
   a. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles as specified in the Door Hardware Sets.
      i. Quantity: Provide the following hinge quantity, unless otherwise indicated: Three Hinges: For doors with heights 61 to 90 inches.
      ii. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required. Widths up to 310"; 4-1/2" standard or heavy weight as specified.
      iii. Hinge Weight and Base Material: Unless otherwise indicated, provide the following. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
      iv. Hinge Options: For all Swinging Doors in the Schedule provide Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed: for the following applications:
10. POWER TRANSFER DEVICES
   a. Electrified Quick Connect Transfer Hinges: Provide electrified transfer hinges with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
   b. Concealed Quick Connect Electric Power Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
   c. Provide mortar guard enclosure on steel frames installed at masonry openings for each electrical hinge specified.
11. CYLINDERS AND KEYING
   a. Cylinders: Original manufacturer cylinders complying with the following:
      i. Mortise Type: Threaded cylinders with rings and straight- or clover-type cam.
      ii. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
      iii. Bored-Lock Type: Cylinders with tailpieces to suit locks.
      iv. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
      v. Keyway: Match City of Roseville Standard.
   b. Permanent Cores: finish face to match lockset; complying with the following: Interchangeable Cores: Core insert, removable by use of a special key; usable with other manufacturers' cylinders.
   c. Keying System: Each type of lock and cylinders to be factory keyed. Conduct specified "Keying Conference" to define and document keying system instructions and requirements. Furnish factory cut, nickel-silver bow large blow permanently stamped with a visual key control number as directed by Owner.
   d. Key Quantity: Provide the following minimum number of keys:
      i. Top Master Key: One (1).
      ii. Change Keys per Cylinder: Two (2).
      iii. Master Keys (per Master Key Group): Two (2).
      iv. Grand Master Keys (per Grand Master Key Group): Two (2).
      v. Construction Keys : Ten (10).
      vi. Construction Control Keys: Two (2).
      vii. Permanent Control Keys: Two (2).
   e. Construction Keying: Provide construction master keyed cylinders or temporary keyed construction cores where specified. Provide construction master keys in quantity as required by project Contractor. Replace construction cores with permanent cores. Furnish permanent cores for installation as directed under specified "Keying Conference".
12. MECHANICAL LOCKS AND LATCHING DEVICES
   a. Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 certified mortise locksets furnished in the functions as specified in the Hardware Sets. Locksets to be manufactured with a corrosion resistant, stamped 12-gauge minimum formed steel case and be field-reversible for handing without disassembly of the lock body. Lockset trim (including knobs, levers, escutcheons, roses) to be the product of a single manufacturer. Furnish with standard 2 3/4" backset, 3/4" throw anti-friction stainless steel latchbolt, and a full 1" throw stainless steel bolt for deadbolt functions. Mortise locks to be certified Security Grade 1 and include vandal resistant heavy gauge escutcheon or sectional type trim.
13. ELECTROMECHANICAL LOCKING DEVICES
   a. Electrified Mortise Locksets. Grade 1 (Heavy Duty). Subject to same compliance standards and requirements as mechanical mortise locksets, electrified locksets to be of type and design as specified below. Electrified Lock Options: Where indicated in the Hardware Sets, provide electrified options including outside door lock/unlock trim control, latchbolt and lock/unlock status monitoring, and request-to-exit signaling. Unless otherwise indicated, provide electrified locksets standard as fail secure.
14. LOCK AND LATCH STRIKES
   a. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set. Unless otherwise indicated, and as follows. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
   b. Standards: Comply with the following: Strikes for Mortise Locks and Latches: BHMA A156.13.
15. DOOR CLOSERS
   a. All door closers specified herein shall meet or exceed the following criteria:
      i. General: Door closers to be from one manufacturer, matching in design and size with the same type door preparations and templates regardless of application or sizing size. Closers to to be non-handed with full sized covers including installation and adjusting information on inside of cover.
      ii. Standards: Closers to comply with UL-10C and UBC 7-2 for Positive Pressure Fire Test and U.L. listed for use of fire rated doors.
      iii. Cycle Testing: Provide closers which have successfully met 1 million cycles in a test witnessed and verified by UL.
      iv. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the physically handicapped, provide units complying with ANSI ICC/A117.1.

WMB ARCHITECTS

5757 Pacific Avenue
Suite 226
Stockton, CA 95207

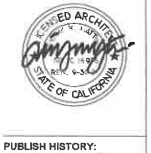
2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

Standard Comfort Station #1

Roseville, CA

WMB Project No. 20-086



PUBLISH HISTORY:

	DATE	PURPOSE
1	08.13.21	100% CDs
1	08.11.21	PLAN REVIEW 1
2	08.12.21	2ND SUBMISSION

SHEET SPECIFICATIONS

A0.2

Not for Construction
For Council Approval

v. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.

1. Where closers are indicated to have mechanical dead-stop, provide heavy duty arms and brackets with an integral positive stop.
2. Where closers are indicated to have mechanical hold open, provide heavy duty arms with an additional built-in mechanical holder assembly designed to hold open against normal wind and traffic conditions. Holder to be manually releasable to on-off position.
3. Where closers are indicated to have a cushion-type stop, provide heavy duty arms and brackets with swing-stop mechanism to cushion door when opened to maximum degree.
4. Closers shall not be installed on exterior side of doors; where possible install closers on door for optimum aesthetics. Provide drop plates or other accessories as required for proper mounting.

vi. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates, and through-bolt or security type fasteners as specified in the door Hardware Sets.

b. Door Closers, Surface Mounted (Commercial Duty): ANSI/BHMA 156.4, Grade 1 certified surface mounted, institutional grade door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one-piece cast iron or aluminum alloy body construction, with adjustable backcheck, closing sweep, and latch speed control valves. Provide non-handed units standard.

16. DOOR STOPS AND HOLDERS: Door stops and holders to be of type and design as specified below or in the Hardware Sets.: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

17. FABRICATION: Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

18. FINISHES

a. Standard designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

b. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware.

c. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

19. ACCEPTABLE MANUFACTURERS AND PRODUCTS

Closer, Surface	Manufacturer	Tell Manufacturing
	Product	600 Series Heavy Duty Commercial Grade1
	Options	Adj Delayed Action Closing Friction Hold-Open Arm
Cylinder	Manufacturer/Product:	by Lockset Manufacturer
	Options:	Interchangeable cores
Door Bottom	Manufacturer/Product:	Pemko 216PK
	Finish:	Satin Nickel Anodized Alum., Pemko Prime
Hinges	Manufacturer /Product	Command Access Technologies ; Energy Transfer Hinge ETH2W Electrified and Non-Electrified as Scheduled : Finish 630, US32D
Locksets, Electrified Mortise	Manufacturer/Product	Command Access Schlage LV9000 series, ML80 Storeroom or ML485 privacy wideadbolt as scheduled, (fail safe/fail secure) , Grade 1, Lever #17 (Sparta) Vandlgard , 'A' Rose Escutcheon; ADA Thumbturn
Locksets, Mortise	Manufacturer/Product	Schlage LV9480 Storeroom lock with Deadbolt, Grade 1, Lever #17 (Sparta), 'A' Rose Escutcheon, no Thumbturn
Stop	Manufacturer/Product	Door Controls International, No. 321DT Wrought Convex Wall Bumper , 630 Finish
Threshold	Manufacturer/Product	Pemko 270A (4") , Pemkote Finish

20. EXAMINATION

a. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labelled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

b. Notify Owner's Representative of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

21. PREPARATION: Hollow Metal Doors and Frames: Comply with ANSI/DHI A115.series.

22. INSTALLATION

a. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

i. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including hanging devices; locking devices; closing devices; and seals.

b. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

ii. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames".

iii. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities".

c. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

d. Thresholds: Set thresholds for exterior doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants".

e. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

23. FIELD QUALITY CONTROL: Field Inspection: Supplier will perform a final inspection of installed door hardware and state in report whether work complies with or deviates from requirements, including whether door hardware is properly installed, operating and adjusted.

24. ADJUSTING: Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

25. CLEANING AND PROTECTION

a. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

b. Clean adjacent surfaces soiled by door hardware installation.

c. Clean operating items as necessary to restore proper finish, and provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

26. DEMONSTRATION: Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

27. DOOR HARDWARE SCHEDULE: The hardware sets represent the design intent and direction of the owner and Owner's Representative. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the Owner's Representative with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

Hardware Groups

Group:	01
Doors:	101.1, 102.1, 103.1, 104.1
	Scheduled Hardware:
Hinges:	(2) Non-Electrified, (1) Electrified
Electrified Mortise Lockset	
Kickplate	
Door Bottom	
Closer	
Threshold	
Strip	

Group:	02
Doors:	108.1, 108.1
	Scheduled Hardware:
Hinges:	(3) Non-Electrified
Mortise Lockset	
Threshold	
Closer	
Strip	

099100 – PAINTING

1. SUMMARY: Provide painting as shown on the Finish Schedule in the Drawings and specified herein. The type of material to be used and the number of coats to be applied are listed in the "Painting Schedule" in Part 3.00 of this Section of these Specifications. The term "paint", as used herein, included enamels, spodes, paints, sealers, fillers, emulsions, and other coatings, whether used as prime, intermediate, or finish coats

2. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.

3. SUBMITTALS: Make submittals to the Owner's Representative in accordance with the provisions of Section 01 33 23 of these specifications.

4. INDOOR AIR POLLUTANT CONTROL REQUIREMENTS

a. VOC Limits

i. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3 of the 2016 California Green Building Standards Code, unless more stringent local limits apply.

ii. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

b. Aerosol Paints and Coatings

i. Aerosol paints and coatings shall meet the PWMR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520, and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

5. MOCK-UPS: Provide and install a full-coat finish Sample of each type of coating, color, and substrate applied where directed by the Owner's Representative.

6. PROJECT CONDITIONS: The General Contractor is responsible to ensure all materials used in this Section meet current California V.O.C. (volatile organic compounds/chemicals) Regulations. The Owner's Representative shall be immediately notified of all V.O.C. conflicts. Work shall not proceed until conflicts are resolved.

7. EXTRA STOCK: Upon completion of this portion of the Work, deliver to the Owner an extra stock of one gallon of each color and gloss used to each coating material used, with all such extra stock tightly sealed in clearly labeled containers.

8. PAINT MATERIALS

a. Manufacturer

i. All paint material's selected for coating systems for each type of surface shall be the product of a single manufacturer.

ii. Paint materials listed herein, unless otherwise designated in the "Painting Schedule", are the product of Kelly Moore and require no further approval as to manufacturer or catalog number.

iii. Equivalent products of other major paint manufacturers may be used subject to approval by the Owner's Representative of the materials list and manufacturers' recommendations required to be submitted under Paragraph 3 above. Equivalent product manufacturers must provide a manufacturers product reference guide demonstrating the equivalence of the product substituted to the one specified

b. Compatibility

i. All paint material's and equipment shall be compatible in use; finish coats shall be compatible with prime coats; prime coats shall be compatible with the surface to be coated; all tools and equipment shall be compatible with the coating to be applied.

ii. Thinners, when used, shall be only those thinners recommended for that purpose by the manufacturer of the material to be thinned.

c. Colors and glosses: All colors and glosses shall be indicated on the Painting Schedule and Finishes Schedule.

9 PREPARATION OF SURFACES, GENERAL

a. Prior to all surface preparation and painting operations, completely mask, remove or otherwise adequately protect all hardware, accessories, machined surfaces, plates, lighting fixtures, and similar items in contact with painted surfaces but not scheduled to receive paint.

b. Spot prime all exposed nails and other metals which are to be painted with emulsion paints, using a primer recommended by the manufacturer of the coating system.

c. Before applying paint or other surface treatment, thoroughly clean all surfaces involved. Schedule all cleaning and painting so that dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

10 PREPARATION OF WOOD SURFACE

a. Clean all wood surfaces until they are free from dirt, and all other foreign substance.

b. Unless specifically noted to be left rough, smooth all finished wood surfaces exposed to view, using the proper sandpaper. Where so required, use varying degrees of coarseness in sandpaper to produce uniformly smooth and unmarred wood surfaces.

c. Knots

i. On small, dry, seasoned knots, thoroughly scrape and clean the surface and apply one coat of good quality knot-sealer before application of the priming coat.

ii. On large, open, unseasoned knots, scrape off all pitch and thoroughly clean the area, followed by an application of one coat of good quality knot-sealer

iii. Remove and treat all pitch surfaces as required for large knots.

d. Dryness

i. Unless specifically approved by the Architect, do not proceed with the painting of wood surfaces until the moisture content of the wood is 12% or less as measured by a moisture-meter approved by the Owner's Representative.

11 PREPARATION OF METAL SURFACES

a. Galvanized metal

i. Clean all surfaces thoroughly with solvent until they are completely free from dirt, soil, and grease.

ii. Thoroughly treat the cleaned surface with phosphoric acid etch.

iii. Remove all excess etching solution and allow to dry completely before application of paint.

b. Other metals

i. Thoroughly clean all surfaces until they are completely free from dirt, oil, grease and old paint.

ii. Allow to dry thoroughly before application of paint.

12. PREPARATION OF MASONRY / CONCRETE SURFACES

a. Clean all masonry / concrete surfaces until they are free from dirt and all other foreign substances.

b. At existing exterior masonry / concrete to be sealed, water blast surfaces until they are free from dirt and all other foreign surfaces.

13. PAINT APPLICATION

a. General: Paint surfaces as shown on the Finishes Schedule on the Drawings. Paint all grilles and other prefinished items where the factory prefinish is not in accordance with the Painting Schedule and color selection or where a prefinished item is not the same color as the adjacent surface. Paint to match adjacent surface.

b. Drying: Allow sufficient drying time between coats. Modify the period as recommended by the material manufacturer to suit adverse weather conditions.

c. Environmental conditions: Comply with the manufacturer's recommendations as to environmental conditions under which the coating systems may be applied. Do not apply paint in areas where dust is being generated.

d. Defects: Sand and dust between coats to remove all defects visible to the unaided eye from a distance of five feet.

e. Color of undercoats: Slightly vary the color of succeeding coats.

14. INSPECTION

a. Do not apply additional coats until completed coat has been inspected and approved by the Owner's Representative.

b. Only inspected and approved coats of paint will be considered in determining the number of coats applied.

15. RE-INSTALLATION OF REMOVED ITEMS

a. Following completion of painting in each space, promptly reinstall all items removed for painting, using only workmen skilled in the particular trade.

16. CLEANING UP: During progress of the Work, do not allow the accumulation of empty containers or other excess items except in areas specifically set aside for that purpose. Prevent accidental spilling of paint materials and, in event of such spill, immediately remove all spilled material and the waste or other equipment used to clean up the spill, and wash the surfaces to their original undamaged condition, all at no additional cost to the Owner. Upon completion of this portion of the Work visually inspect all surfaces and remove all paint and traces of paint from surfaces not scheduled to be painted.

17. PAINTING SCHEDULE

Apply the following finishes to the areas designated areas and as shown on the Drawings:

Type 1: Interior Concrete Floor & Base
First Coat: Tnemec Series 201, Epoxiprime – white
Second Coat: Tnemec Series 201, Epoxiprime – white

Type 2: Interior Metal (Ferrous – Semi-Gloss)
First Coat: Kelly Moore 5725 DTM Acrylic Primer/Finish
Second Coat: Kelly Moore 5885 DTM High Performance Acrylic Semi-Gloss
Third Coat: Kelly Moore 5885 DTM High Performance Acrylic Semi-Gloss

Type 3: Exterior Metal (Ferrous – Semi-Gloss)
First Coat: Kelly Moore 5725 DTM Acrylic Primer/Finish
Second Coat: Kelly Moore 5885 DTM High Performance Acrylic Semi-Gloss
Third Coat: Kelly Moore 5885 DTM High Performance Acrylic Semi-Gloss

Type 4: Exterior Metal (Galvanized)
First Coat: Kwal Kuiker Metal Clean & Etch
Second Coat: Kelly Moore 5725 DTM Acrylic Primer Finish
Third Coat: Kelly Moore 5885 DTM Semi-Gloss
Fourth Coat: Kelly Moore 5885 DTM Semi-Gloss

Type 5: Exterior CMU Sealer
First Coat: Tnemec – Pelmo-A-Pell 200 - Clear
Second Coat: Tnemec – Pelmo-A-Pell 200 - Clear

Type 6: Interior CMU – Paint (Semi-gloss Sheen from 24" to top of wall)
First Coat: Kelly Moore 521, Fill and Prime Acrylic Block Filler
Second Coat: Kelly Moore 1650 Acrylex Acrylic Semi-Gloss Enamel
Third Coat: Kelly Moore 1650 Acrylex Acrylic Semi-Gloss Enamel

Type 7: Interior CMU – Epoxy Paint (from top of base to 24" above finish floor)
First Coat: Tnemec Series 30, Envirofil Stock Filler/Anti-Bacterial Properties- Clear
Second Coat: Tnemec Series 280 – Treme-Glaze Modified Polyamine Epoxy – White
Third Coat: Tnemec Series 280 – Treme-Glaze Modified Polyamine Epoxy – White

Type 8: Interior Wood - Beams, trims and underside of decking
First Coat: Kelly Moore AcryShield Stain (5-10 Parts) mixed with (1 part) 1240 AcryShield Exterior Flat
Second Coat: Kelly Moore AcryShield Stain (5-10 Parts) mixed with (1 part) 1240 AcryShield Exterior Flat

Type 9: Exterior Wood Sealer
First Coat: Cabot Wood Protector 2101 Series – Clear

101400 – SIGNAGE

1. SUMMARY: Provide and install all signage as shown on the Drawings and as specified herein.

2. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.

3. SUBMITTALS: Make submittals to the Owner's Representative in accordance with the provisions of Section 013323 of these specifications.

4. REGULATORY REQUIREMENTS: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and State of California Building Code (CBC).

5. SIGNS: Provide signs for all rooms as indicated on the Drawings:

a. Restroom Identification Signs

i. Colored plexiglas with white contrasting lettering meeting State of California standards. Color to be selected by Owner's Representative. Braille to meet State of California Regulations for braille size, height and spacing.

b. Room Occupancy Signs

i. Colored plexiglas with white contrasting lettering meeting State of California standards. Color to be selected by Owner's Representative. Sign size and wording to be approved by local Fire Department prior to fabrication

6. INSTALLATION

a. Locate signs where indicated on the Drawings or directed by Owner's Representative. Install signs level, plumb, and at heights indicated, with sign surfaces free from distortion and other defects in appearance.

b. Wall-Mounted Signs: Install with Mechanical Fasteners: Use non-removable mechanical fasteners placed through predrilled holes and plug inserts at concrete unit masonry walls.

102800 – TOILET ACCESSORIES

1. SUMMARY: Provide and install toilet accessories as shown on the Toilet Accessories Schedule on the Drawings including grab bars, wall hand dryers and baby changing units. Install other accessories provided by the City .

2. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.

3. SUBMITTALS: Make submittals to the Architect in accordance with the provisions of Section 013323 of these specifications.

4. MATERIALS

a. Stainless Steel: ASTM A 666, Type 304, No. 4 finish (satin), 0.0312-inch (.76 mm) minimum nominal thickness unless otherwise indicated.

b. Fasteners: Screws, bolts, and other devices of same material as accessory unit, tamper and theft resistant when exposed, and of galvanized steel when concealed.

5. TOILET ACCESSORIES

a. Basis of design for grab bars shall be Bobrick. All toilet accessories shall be as scheduled on the Drawings.

b. Electric Hand Dryers: World Dryer Corporation Model "VERDEdri" ADA Compliant; Stainless Steel Brushed Finish

c. Baby Changing Unit: As scheduled on the Drawings.

6. FASTENINGS

a. All toilet accessories shall be complete with all required fastenings for installation on the wall surface and structure to be mounted to, and all fastenings shall harmonize with the item being fastened.

7. INSTALLATION

a. Install all toilet accessories where indicated on the Drawings and in full accordance with the manufacturer's recommendations, anchoring all components fully in place for long life under hard use.

b. Install accessories using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.

c. Install grab bars to withstand a downward load of at least 250 lbf (1112 N), when tested according to method in ASTM F 446.

d. Adjust accessories for unencumbered, smooth operation and verify that mechanisms function properly. Replace damaged or defective items. Remove temporary labels and protective coatings.

104413 FIRE EXTINGUISHERS

1. SUMMARY: Provide and install hand portable fire extinguishers as shown on the Drawings and specified herein.

2. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.

3. SUBMITTALS: Make submittals to the Architect in accordance with the provisions of Section 013323 of these specifications.

4. FIRE EXTINGUISHERS: All fire extinguishers shall have a minimum UL rating of 2A:10BC and shall be Potter-Roemer Inc., Model #3005, or an equal approved in advance by the Architect.

5. MOUNTING:

a. Type and style

i. All fire extinguisher cabinets shall be wall mounted, as manufactured by Potter Roemer Inc #3900 Wall Mounted Bracket.

ii. All fire extinguisher cabinets shall be the products of the same manufacturer and shall be the ones upon which design was based, or an equal approved in advance by the Architect.

6. MOUNTING BRACKETS

a. Manufacturer's steel, designed to secure fire extinguishers to wall or structure, of sizes required for fire extinguishers indicated, with plated or baked enamel finish.

7. SURFACE CONDITIONS: Coordinate with all other trades as required to ensure proper and adequate provision in framing and wall covering for the installation of the recessed cabinets in the locations required. Prior to installation, inspect all cabinet recesses and verify that all necessary provisions have been made. In the event of discrepancy, immediately notify the Architect. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

8. INSTALLATION: Install the firefighting devices where indicated on the Drawings and in full accordance with all pertinent regulations and the manufacturer's recommendations, setting the top of the mounting bracket as shown on the Drawings, anchoring all components firmly in place for long life under hard use.

9. SERVICE: Determine the approximate completion date of the Work and then inspect, charge, and tag the fire extinguishers at a date not more than ten days before actual completion date of the work.

311000 – SITE CLEARING

1. SUMMARY: Clear the site where shown on the project Civil Drawings and specified herein.

2. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.

3. SUBMITTALS: Make submittals to the Owner's Representative in accordance with the provisions of Section 013323 of these specifications.

4. SECTION REQUIREMENTS

a. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.

b. Salvable Improvements: Carefully remove items indicated to be salvaged and store on Owner's premises where indicated.

c. Notify utility locator service for area where Project is located before site clearing.

d. Do not begin site-clearing operations until temporary erosion and sedimentation control measures are in place.

5. PREPARATION

a. Protect and maintain benchmarks and survey control points from disturbance.

b. Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to requirements of authorities having jurisdiction or in compliance with the Storm Water Pollution Prevention Plan (SWPPP), a sediment and erosion control plan, specific to the site.

c. Utilities

i. Unless shown to be removed, protect active utility lines shown on the Drawings or otherwise made known to the Contractor prior to excavations. If damaged, repair or replace at no additional cost to the Owner.

ii. If active utility lines are encountered, and are not shown on the Drawings or otherwise made known to the Contractor, promptly notify the Owner's Representative and take necessary steps to ensure that service is not interrupted.

iii. If service is interrupted as a result of work under this Section, immediately notify the Owner's Representative and restore service by repairing the damaged utility.

iv. If existing utilities are found to interfere with the permanent facilities being constructed under this Section, immediately notify the Owner's Representative and secure his instructions.

v. Do not proceed with permanent relocation of utilities until written instructions are received from the Owner's Representative.

d. Protection of persons and property

i. Barricade open depressions and holes occurring as part of this Work, and post warning lights on property adjacent to or within public access. Operate warning lights during hours from dusk to dawn each day and as otherwise required.

ii. 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.

e. Protect trees and shrubs, where indicated to remain, by providing a fence around the tree or shrub of sufficient distance away and of sufficient height so trees and shrubs will not be damaged in any way as part of this Work.

6. SITE CLEARING

a. Remove obstructions, trees, shrubs, grass, and other vegetation to permit installation of new construction. Removal includes digging out stumps and obstructions and grubbing roots. Clean out roots 1" in diameter and larger to a depth of at least 12" below the existing ground surface or subgrade of new graded surface, whichever is lower. Treat roots remaining in the soil with a weed killer approved by the Owner's Representative.

b. Strip topsoil. Stockpile topsoil that will be reused in the Work. Stockpile surplus topsoil to allow for respreading deeper topsoil.

c. Remove existing above- and below-grade improvements as indicated and as necessary to facilitate new construction.

d. Remove slabs, paving, curbs, gutters, and aggregate base as indicated. Neatly saw-cut length of existing pavement to remain before removing existing pavement.

e. In areas not to be further excavated, fill depressions resulting from site clearing. Place and compact satisfactory soil materials in 8-inch- (152-mm-) thick layers to density of surrounding original ground; or comply with the recommendations of the Soils Report which will govern.

f. Dispose of waste materials, including trash, debris, and excess topsoil, off Owner's property. Burning or waste materials on site is not permitted.

7. UTILITIES: Coordinate with utility companies and agencies as required. Where utility cutting, capping or plugging is required, perform such work in accordance with requirements of the utility company or governmental agency having jurisdiction.

312200 – EXCAVATING FILLING COMPACTING AND GRADING

1. SUMMARY: Excavate, backfill, compact, and grade the site to the elevations shown on the Drawings and as specified herein.

2. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.

3. SUBMITTALS: Make submittals to the Owner's Representative in accordance with the provisions of Section 013323 of these specifications.

4. FILL MATERIAL:

a. All fill material shall be subject to approval of the Owner's Representative.

b. Provide fill material per requirements of the Soils Report.

c. If a Soils Report is not available, comply with the following requirements: All fill material shall be of broken-rock mixture which is free from organic matter and other deleterious substance. It shall consist of granular nature with sufficient binder to form a firm and stable, non-yielding subgrade. It shall contain no rocks or lumps over three inches in greatest dimension. Engineered fill R value = 40. Plasticity index is passing the #4 sieve 100%, passing the #200 sieve 3% minimum. Fill shall have a minimum unit dry density of not more than 3% from air dry to saturation under a surcharge of 60 pounds per square foot at 90% compaction.

5. ON-SITE FILL MATERIAL: All on-site fill material shall meet the requirements of Article 2.01 above. Adobe and clay soils will not be acceptable.

WMB ARCHITECTS

5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

Standard Comfort Station #1

Roseville, CA

WMB Project No. 20-086

LICENSED ARCHITECT STATE OF CALIFORNIA

PUBLISH HISTORY:

	DATE	PURPOSE
05.13.21	100% CD's	
1	08.11.21	PLAN REVIEW 1
2	08.11.21	ADDENDUM

SHEET SPECIFICATIONS

A0.3

Not for Construction
For Council Approval

5. IMPORTED FILL MATERIAL: All imported fill material shall meet the requirements of Article 2.01 above. Adobe and clay soils will not be acceptable. For approval of imported fill material, notify the Owner's Representative at least four working days in advance of intention to import material, designate the proposed borrow area, and permit the Owner's Representative to sample as necessary from the borrow area for the purpose of making acceptance tests to prove the quality of the material.

7. GRANULAR CUSHION: Granular cushion under interior concrete slabs on grade shall be clean mineral aggregate with particle size grading within the following limits:
   a. Passing the one-inch mesh: 100%
   b. Passing the number four sieve: not more than 5%
   c. Passing the number 20 sieve: not more than 1%

8. STRUCTURAL BACKFILL: Provide cohesionless sand material free from organic material.

9. TOPSOIL: Where and if shown on the Drawings or otherwise required, provide topsoil consisting of friable, fertile soil of loamy character, containing an amount of organic matter normal to the region, capable of sustaining healthy plant life, and reasonably free from subsoil, roots, heavy or stiff clay, stones larger than 2" in greatest dimension, noxious weeds, sticks, brush, litter, or other deleterious matter. Obtain topsoil from sources within the project limits, or provide imported topsoil obtained from sources outside the project limits, or from both sources.

10. OTHER MATERIALS: All other materials, not specifically described but required for proper completion of the work of this Section, shall be as selected by the Contractor subject to the approval of the Owner's Representative.

11. FINISH ELEVATIONS AND LINES: Secure the services of a registered civil engineer or licensed land surveyor for setting and establishing finish elevations and lines. Carefully preserve all data and all monuments set and, if displaced or lost, immediately replace to the approval of the Owner's Representative and at no additional cost to the Owner.

12. UTILITIES
   a. Unless shown to be removed, protect active utility lines shown on the Drawings or otherwise made known to the Contractor prior to excavation. If damaged, repair or replace at no additional cost to the Owner.
   b. If active utility lines are encountered, and are not shown on the Drawings or otherwise made known to the Contractor, promptly notify the Owner's Representative and take necessary steps to assure that service is not interrupted.
   c. If service is interrupted as a result of work under this Section, immediately notify the Owner's Representative and restore service by repairing the damaged utility.
   d. If existing utilities are found to interfere with the permanent facilities being constructed under this Section, immediately notify the Owner's Representative and secure his instructions.
   e. Do not proceed with permanent relocation of utilities until written instructions are received from the Owner's Representative.

13. PROTECTION OF PERSONS AND PROPERTY
   a. Barricade open holes and depressions occurring as part of the work, and post warning lights on property adjacent to or within public access. Operate warning lights during hours from dusk to dawn each day and as otherwise required.
   b. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, washout, and other hazards created by operations under this section.
   c. Protect trees and shrubs designated to remain.

14. DEWATERING: Remove all water, including rain water, encountered during trench and sub-structure work to an approved location by pumps, drains, and other approved methods. Keep excavations and site construction area free from water.

15. EXCAVATING
   a. Perform excavating of every type of material encountered within the limits of the Work to the lines, grades and elevations indicated on the Drawings and specified herein. Where excavation grades are not shown on the Drawings, excavate as required to accommodate the installation.
   b. Surplus materials: Dispose of excavated material away from the site.
   c. On-Site Fill: Where excavated materials meet the standard of 2.01, Fill Materials, and are to be used for fill in site work, transport to and place in fill or storage areas within limits of the work.
   d. Unsatisfactory excavated materials: In the excavation where unsatisfactory materials are encountered at grades required for the work, excavate to a distance below grade as directed by the Owner's Representative, and replace with satisfactory materials.
   e. Excavation of rock
      i. Subject to the approval of the Owner's Representative, rock encountered in the excavation may be broken into pieces not larger than three inches in maximum dimension and be incorporated in the fill material.
      ii. Remove from the site all rock larger than three inches in maximum dimension. Rocks and stones larger than 1/2 inch in maximum dimension will not be permitted within the top 12 inches of finished grade in those areas outside of building and paved areas.
      iii. Do not use explosives without the written permission from the Owner's Representative.
   f. Excavate and backfill in a manner and sequence that will provide proper drainage at all times.
   g. Unauthorized excavation
      i. Unauthorized excavation consists of removal of materials beyond indicated subgrade elevations or dimensions without specific instruction from the Owner's Representative.
      ii. Under footings, foundations or retaining walls, fill unauthorized excavations by extending the indicated bottom elevation of the footing or base to the excavation bottom, without altering the required top elevation. When acceptable to the Owner's Representative, lean concrete fill may be used to bring the bottom elevations to proper elevation.
      iii. Under footings, foundations or retaining walls, fill unauthorized excavations by extending the indicated bottom elevation of the footing or base to the excavation bottom, without altering the required top elevation. When acceptable to the Owner's Representative, lean concrete fill may be used to bring the bottom elevation to proper elevation.
   h. Stability of excavations
      i. Slope sides of excavations to 1:1 or flatter, unless otherwise directed by the Owner's Representative. Maintain sides and slopes of excavations in a safe condition until completion of backfilling.
      ii. Shore and brace where sloping is not possible because of space restrictions or stability of the materials being excavated.
   i. Excavating for structures
      i. Conform to elevations and dimensions shown within a tolerance of 0.10 ft., and extending a sufficient distance from footings and foundations to permit placing and removing concrete formwork, installation of services, other construction required, and for inspection.
      ii. In excavating for footings and foundations, take care not to disturb bottom of excavation. Excavate by hand tools to final grade just before concrete is placed. Trim bottoms to required lines and grades to leave solid base to receive concrete.
      iii. Excavate for footings and foundations only after general site excavating, filling, and grading are complete.
   j. Excavating for pavements: Cut surface under pavements to comply with cross sections, elevations, and grades.
   k. Cold weather protection: Protect excavation bottoms against freezing when atmospheric temperature is less than 35°F.

16. FILLING AND BACKFILLING: Conduct fill and backfill operations in conformance with the Soils Report which governs.
   a. Place acceptable soil material in layers to required subgrade elevations. Use satisfactory on-site or imported materials.
   b. Backfill excavations as promptly as progress of the Work permits, but not until completion of the following:
      i. Acceptance of construction below finish grade.
      ii. Inspecting, testing, approving and recording locations of underground utilities.
      iii. Removing concrete formwork.
      iv. Removing shoring and bracing, and backfilling of voids with satisfactory materials.
      v. Removing trash and debris.
      vi. Placement of horizontal bracing on horizontally supported walls.
   c. Ground surface preparation
      i. Remove vegetation, debris, unsatisfactory soil materials, obstructions, and deleterious matter from ground surface prior to placement of fills.
      ii. Plow, strip, or break up sloped surfaces steeper than one vertical to four horizontal so that fill material will bond with existing surface.
      iii. When existing ground surface has a density less than that specified under "compacting" for the particular area, break up the ground surface, pulverize, moisture-condition to the optimum moisture content, and compact to required depth and percentage of maximum density.
      iv. At exposed soils in areas to be paved, scarify to a minimum depth of 8", and recompact as a moisture content that will permit proper compaction as specified for fill.
   d. Placing fill
      i. Place backfill and fill materials in layers not more than 8" in loose depth.
      ii. Before compacting, moisten or aerate each layer as necessary to provide the optimum moisture content.
      iii. Do not place backfill or fill material on surfaces that are muddy, frozen or contain frost or ice.
      iv. Place backfill or fill material evenly adjacent to structures, to required elevations.
      v. Take care to prevent wedging action of backfill against structures by carrying the material uniformly around the structure to approximately the same elevation in each lift.

17. GRADING
   a. Uniformly grade the areas within the limits of grading under this Section, including adjacent transition areas. Smooth the finished surfaces within specified tolerance.
   b. Where a change of slope is indicated on the Drawings, construct a rolled transition section having a minimum radius of approximately 10', unless adjacent construction will not permit such a transition, or if such a transition defeats positive control of drainage.
   c. Grade areas adjacent to buildings to achieve drainage away from the structures, and to prevent ponding. Finish the surfaces to be free from irregular surface changes and shape the surface of areas scheduled to be under walks and pavement to line, grade, and cross-section, with finished surface not more than 0.10 ft. above or below the required subgrade elevation.

18. COMPACTING
   a. Control soil compaction during construction to provide the minimum percentage of density specified for each area as determined according to ASTM D1557.
   b. Provide not less than the following maximum density of soil material compacted at optimum moisture content for the actual density of each layer of soil material in place and as approved by the soil engineer.
      i. Structures: Compact the top 8" of subgrade and each layer of fill material or backfill material at 90% of maximum dry density.
      ii. Lawn and unpaved areas: Compact the top 8" of subgrade and each layer of fill material or backfill material at 85% maximum dry density. Compact the upper 12" of filled areas, or natural soils exposed by excavating, at 85% of maximum dry density.
      iii. Walks: Compact the top 6" of subgrade and each layer of fill material or backfill material at 90% of maximum dry density.
      iv. Pavements: Compact the top 8" of subgrade and each layer of fill material or backfill material at 95% of maximum dry density.
   c. Moisture control
      i. Where subgrade or layer of soil material must be moisture conditioned before compacting, uniformly apply water to surface of subgrade or layer of soil material to prevent free water appearing on surface during or subsequent to compacting operations.
      ii. Remove and replace, or scarify and air dry, soil material that is too wet to permit compacting to the specified density.
      iii. Soil material that has been removed because it is too wet to permit compacting may be stockpiled or spread and allowed to dry. Assist drying by discing, harrowing, or pulverizing until moisture content is reduced to a satisfactory value as determined by moisture-density relation tests approved by the Owner's Representative.
   d. Field Quality Control
      i. Secure the Owner's Representative's approval of subgrades and fill layers before subsequent construction is permitted thereon. If, in the Owner's Representative's opinion, based on reports of the testing laboratory, subgrade or fills which have been placed are below specified density, provide additional compacting to meet compaction standards.

19. MAINTENANCE
   a. Protect newly graded areas from traffic and erosion, and keep free from trash and weeds. Repair and reestablish grades in settled, eroded and rutted areas to the specified tolerances.
   b. Where completed compacted areas are disturbed by subsequent construction operations or adverse weather, scarify the surface, reshape, and compact to the required density prior to further construction.

20. PLACING GRANULAR CUSHION: Carefully place the granular cushion where shown on the Drawings, attaining the indicated thicknesses uniformly, and providing all required transition planes.

21. CLEAN UP: Upon completion of the work of this Section, remove all debris resulting from operations. Remove surplus equipment and tools. Leave the site in a neat and orderly condition acceptable to the Owner's Representative.

312333 – TRENCHING BACKFILL & COMPACTING

1. SUMMARY: Trench, backfill, and compact as shown on the Drawings and specified herein and as required for installation of underground utilities associated with the Work.

2. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.

3. SUBMITTALS: Make submittals to the Owner's Representative in accordance with the provision of Section 013233 of these specifications.

4. FILL MATERIALS
   a. All fill material shall be subject to approval of the Owner's Representative.
   b. Provide fill meeting per requirements of the Soils Report.
   c. If a Soils Report is not available, comply with the following standards: All fill material shall be soil or soil-rock mixture which is free from organic matter and other deleterious substance. It shall be of granular nature with sufficient binder to form a firm and stable, unyielding subgrade. It shall contain no rocks or lumps over three inches in greatest dimension. Engineered fill R value = 40. Plasticity index 8, passing the #4 sieve 100%, passing the #200 sieve 3% maximum. Fill shall have a coefficient of expansion of not more than 3% from air dry to saturation under a surcharge of 60 pounds per square foot at 90% compaction. Provide fill material per requirements of the Soils Report.

5. ON-SITE FILL MATERIALS: All on-site fill material shall meet the requirements of Article 2.01 above. Adobe and clay soils will not be acceptable.

6. IMPORTED FILL MATERIAL: All imported fill material shall meet the requirements of Article 2.01 above. Adobe and clay soils will not be acceptable. For approval of imported fill material, notify the Owner's Representative at least four working days in advance of intention to import material, designate the proposed borrow area, and permit the Owner's Representative to sample as necessary from the borrow area for the purpose of making acceptance tests to prove the quality of the material.

7. BEDDING MATERIAL: Bedding material shall be sand, gravel, crushed aggregate, native free-draining granular material having a sand equivalent of not less than 20. Pea gravel is not acceptable. No aggregate shall exceed 1".

8. OTHER MATERIALS: All other materials, not specifically described but required for proper completion of the work of this Section, shall be as selected by the Contractor subject to the approval of the Owner's Representative.

9. FINISH ELEVATIONS AND LINES: For setting and establishing finish elevations and lines, secure the services of a registered civil engineer or licensed land surveyor. Carefully preserve all data and all monuments set and, if displaced or lost, immediately replace to the approval of the Owner's Representative and at no additional cost to the Owner.

10. UTILITIES
   a. Unless shown to be removed, protect active utility lines shown on the Drawings or otherwise made known to the Contractor prior to excavation. If damaged, repair or replace at no additional cost to the Owner.
   b. If active utility lines are encountered, and are not shown on the Drawings or otherwise made known to the Contractor, promptly notify the Owner's Representative and take necessary steps to assure that service is not interrupted.
   c. If service is interrupted as a result of work under this Section, immediately notify the Owner's Representative and restore service by repairing the damaged utility.
   d. If existing utilities are found to interfere with the permanent facilities being constructed under this Section, immediately notify the Owner's Representative and secure his instructions.
   e. Do not proceed with permanent relocation of utilities until written instructions are received from the Owner's Representative.

11. PROTECTION OF PERSONS AND PROPERTY
   a. Barricade open holes and depressions occurring as part of the work, and post warning lights on property adjacent to or within public access. Operate warning lights during hours from dusk to dawn each day and as otherwise required.
   b. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, washout, and other hazards created by operations under this section.
   c. Protect trees and shrubs designated to remain

12. DEWATERING: Remove all water, including rainwater, encountered during trench and sub-structure work to an approved location by pumps, drains, and other approved methods. Keep excavations and site construction area free from water.

13. TRENCHING
   a. Perform all trenching required for the installation of utilities associated for this work. Make all trenches open vertical construction with sufficient width to provide free working space at both sides of the trench and around the installed item as required for caulking, joining, backfilling, and compacting.
   b. Trench as required to provide the elevations shown on the Drawings. Where elevations are not shown on the Drawings, trench to sufficient depth as indicated below to maintain a minimum cover over the top of the installed item below the finish grade or subgrade. The coverages given below are minimum standards. Verify with local governmental jurisdictions for specific required coverages.
      i. Areas subject to vehicular traffic
         1. Sanitary sewers 24"
         2. Storm drains 24"
         3. Electrical conduits and cables 24"
      ii. Areas not subject to vehicular traffic
         1. Sanitary sewers 12"
         2. Storm drains 18"
      iii. All areas
         1. Water lines 12"
         2. Natural gas lines 18"
         3. Electrical cables 24"
         4. Electrical conduits 18"
      iv. Concrete encased
         1. Sanitary sewers and storm drains 12"
         2. Electrical conduits 12"
   c. Where utilities are under a concrete structure slab or pavement, the minimum depth need only be sufficient to completely separate the conduit or pipe sleeve, and electrical long-radius rigid metal conduit riser from the concrete slab, provided it will not interfere with the structural integrity of the slab or pavement.
   d. Where the minimum cover is not provided, encase the pipes in concrete 2" thick as indicated on the Drawings. Provide concrete with a minimum 28-day compressive strength of 2500 psi.
   e. Where trench excavation is inadvertently carried below proper elevation, backfill with approved material and then re-compact to provide a firm and unyielding subgrade and/or foundation to the approval of the Owner's Representative and at no additional cost to the Owner.
   f. Shoring and bracing: Provide materials for shoring and bracing as may be necessary for safety of personnel, protection of work, and compliance with requirements of governmental agencies having jurisdiction. Maintain shoring and bracing in excavations regardless of the time period excavations will be open. Carry shoring and bracing down as excavation progresses.
   g. Grading and stockpiling trenched material: Control the stockpiling of trenched material in a manner to prevent water running into the excavations. Do not obstruct the surface drainage but provide means whereby storm and waste waters are diverted into existing gutters, other temporary drains, or surface drains.
   h. Where utility runs traverse public property or are subject to governmental or utility company jurisdiction, provide depth, bedding, cover, and other requirements as set forth by legally constituted authority having jurisdiction, but in no case less than the depth shown in the Contract Documents.
   i. Where trenching occurs in existing lawns, remove turf in sections and keep damp. Replace turf upon completion of the backfilling.

14. FOUNDATION FOR PIPES
   a. Grade the trench bottoms to provide a smooth, firm, and stable foundation free from rock points throughout the length of the pipe.
   b. Place a minimum of six inches of the specified backfill material in the bottom of the trench.
   c. Subsurface conditions: In areas where soft, unstable materials are encountered at the surface upon which non-expansive material is to be placed, remove the unstable material and replace it with material approved by the Owner's Representative, making sufficient depth to develop a firm foundation for the item being installed. If the need for such over excavation has been occasioned by an act or failure to act on the part of the Contractor, make the over excavation and replacement at no additional cost to the Owner.

15. BEDDING FOR PIPES
   a. Place the specified bedding material in the trench, simultaneously on each side of the pipe, for the full width of the trench to a minimum depth of one foot above the outside diameter of the pipe barrel.
   b. Densify the bedding material after placing by thoroughly compacting with mechanical tampers after bringing to required moisture content. Take special care to provide firm bearing support on the underside of the pipe and fittings for the full length of the pipe.
   c. Other bedding procedures and materials may be used if prior written approval has been obtained from the Owner's Representative.

16. BACKFILL FOR PIPES: Place approved backfill in layers which will compact to six inches maximum, concurrently on both sides of trench. Thoroughly compact each layer with mechanical tampers bringing to 90% maximum dry density. Compaction by jetting with water is expressly prohibited.

17. TEST FOR DISPLACEMENT OF SEWERS AND STORM DRAINS
   a. Check sewers and storm drains to determine whether displacement has occurred after the trench has been backfilled to above the pipe and has been compacted as specified.
   b. Flash a light between manholes or, if the manholes have not yet been constructed, between the locations of the manholes, by means of a flashlight or by reflecting sunlight with a mirror.
   c. If the illuminated interior of the pipeline shows poor alignment, displaced pipes, or any other defects, correct the defects to the specified conditions and at no additional cost to the Owner.

18. PIPE JACKING: The Contractor may, at his option, install steel pipe casings, tongue-and-groove reinforced concrete pipes, and steel pipes under existing roads or pavements by jacking into place using procedures approved by the governmental agencies having jurisdiction and approved by the Owner's Representative.

19. TUNNELING OPERATIONS: The Contractor may, at his option, tunnel pipes into position using procedures approved by the Owner's Representative and the governmental agencies having jurisdiction.

321313 – CONCRETE PAVING

1. SUMMARY: Provide and install concrete paving for this Work as shown on the Drawings and specified herein.

2. GENERAL REQUIREMENTS: This Section shall be performed in accordance with the General Conditions, Supplementary Conditions and all Sections in Division 1 of these Specifications. These documents must be read with the other Contract Documents and Sections as a whole to complete the intent of the contract.

3. SUBMITTALS: Make submittals to the Owner's Representative in accordance with the provision of Section 013233 of these specifications.

4. Comply with ACI 301, "Specification for Structural Concrete"

5. MATERIALS
   a. Reinforcing Bars: ASTM A 615/A 615M, Grade 60 deformed.
   b. Portland Cement: ASTM C 150, Type I or II, gray.
   c. Fly Ash: ASTM C 618, Type C or F.
   d. Normal-Weight Aggregates: ASTM C 33, Class 4S coarse aggregate, uniformly graded. Provide aggregates from a single source.
   e. Air-Entraining Admixture: ASTM C 260.
   f. Chemical Admixtures: ASTM C 494. Calcium chloride shall not be used.
   g. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B, dissipating.
   h. Expansion- and Isolation-Joint-Filler Strips: ASTM D 1751, asphalt-saturated cellulosic fiber.

6. CONCRETE MIXTURES: Proportion normal-weight concrete mixes to provide the following properties:
   a. Compressive Strength: 3000 psi (20.7 MPa) at 28 days.
   b. Slump Limit: 4 inches (100 mm plus or minus 1 inch (25 mm), at point of placement.

7. PAVING
   a. Accurately position and support reinforcement, and secure against displacement.
   b. Locate and install contraction, construction, isolation, and expansion joints as indicated or required.
   c. Place concrete in a continuous operation within planned joints or sections. Do not add water to adjust slump.
   d. Float surfaces to true planes within a tolerance of 1/4 inch in 10 feet (1:480) and medium-to-fine-textured broom finish.
   e. Tool edges and joints to a radius of 1/4 inch (6 mm)
   f. Begin curing after finishing concrete. Keep concrete continuously moist for at least seven days or if approved by the Owners Representative, apply membrane-forming curing compound to concrete.
   g. Owner will employ a testing agency to sample concrete, perform tests, and submit test reports during concrete placement.
   h. Remove and replace concrete paving that is broken, damaged, or defective. Exclude traffic from paving for at least 14 days.

WMB ARCHITECTS
5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

Standard Comfort Station #1
Roseville, CA

WMB Project No. 20-086

LICENSED ARCHITECT
STEPHEN J. WMB
No. C-26XXX
Exp. 9-30-2021
STATE OF CALIFORNIA

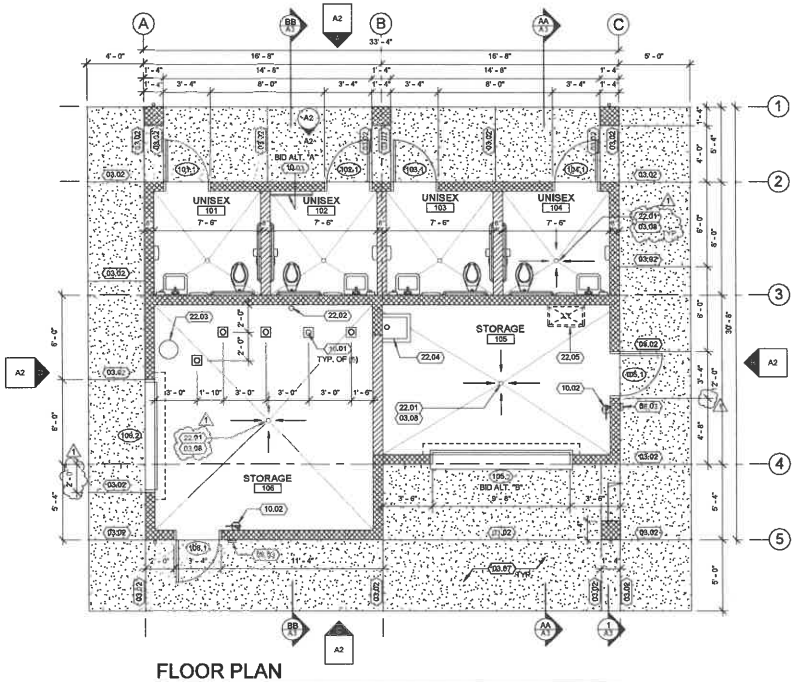
PUBLISH HISTORY:

	DATE	PURPOSE
	05.13.21	100% CD'S
1	08.11.21	PLAN REVIEW 1
2	08.12.21	CO-ORDINATION

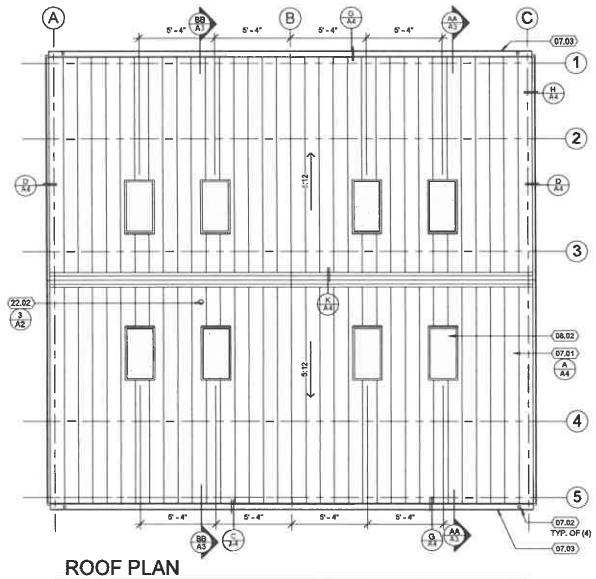
SHEET SPECIFICATIONS

A0.4

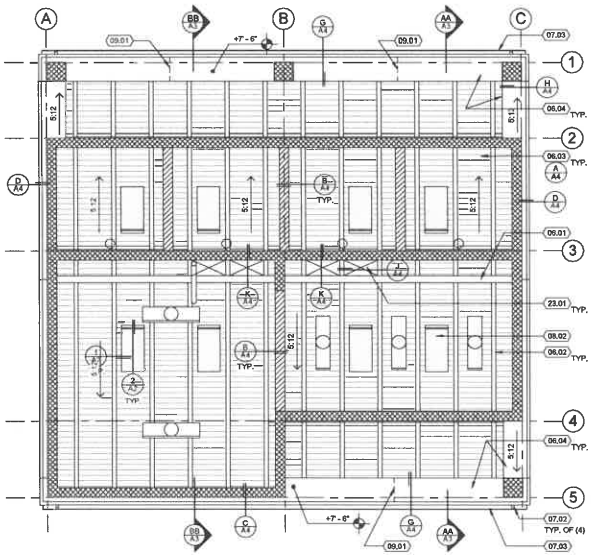
Not for Construction
For Council Approval



FLOOR PLAN
SCALE: 1/4" = 1'-0"



ROOF PLAN
SCALE: 1/4" = 1'-0"



REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

FLOOR PLAN LEGEND

- 8"x8"x16" C.M.U. - BEARING
- 6"x8"x16" C.M.U. - NONBEARING
- (101.1) DOOR NUMBER - REF. A8.1
- (1) WINDOW NUMBER - REF. A8.2
- (1) TOILET ACCESSORY - REF. SCHEDULE
- ALIGN ADJACENT FINISH SURFACES
- CENTER LINE

GENERAL NOTES

1. REFER TO SHEET T2 FOR POSTED SIGNAGE
2. GRID LINES ARE TO FACE OF BLOCK, U.O.N.
3. ALL DIMENSIONS ARE TO FACE OF BLOCK, U.O.N.
4. ALL EXPOSED WOOD AND TRIM TO HAVE A ROUGH-SAWN FACE EXPOSED

KEYNOTES

03.02 CONCRETE WEAKENED PLANE JOINT - REF. STRUCTURAL DWGS.
03.07 PERIMETER 4" REINFORCED CONCRETE SLAB - SLOPE AWAY FROM BUILDING MAXIMUM 1:48
03.08 SLOPE CONC. SLAB TO DRAIN AT 1:48 MAX. SLOPE
06.01 EXPOSED BEAM, PER STRUCT. DWGS.
06.02 EXPOSED RAFTERS, PER STRUCT. DWGS.
06.03 TONGUE & GROOVE DECKING
06.04 5/8" ROUGH SAWN PLYWOOD SOFFIT PANEL - STAIN
07.01 STANDING SEAM METAL PANEL ROOFING - REFER TO DETAIL FOR TYP. ROOFING ASSEMBLY
07.02 2" DIA. SCH. 40 DOWNSPOUT - PAINT TO MATCH ROOF
07.03 5" BOX GUTTER, BY ROOFING MFR. - PAINT TO MATCH ROOF
08.02 24" x 48" SKYLIGHT, TYP.
08.03 PROVIDE BACKING PLATE AND CONDUIT FOR FUTURE CARD READER - REF. ELECTRICAL DWGS.
09.01 1/2" GYPSUM BOARD DRAFT STOP
10.01 4-1/2" DIA. x 36"H PIPE BOLLARD WELDED TO 8" SQ. 1/4" STEEL BASE PLATE - (4) 3/4" HILTI CONC. FASTENERS PER BOLLARD - PAINT SAFETY YELLOW
10.02 PORTABLE FIRE EXTINGUISHER w/ WALL MTD. BRACKET - MIN. U.L. RATING OF 2A:10BC - CONFIRM LOCATION w/ FIRE MARSHALL PRIOR TO INSTALLATION
10.03 INSTALL BABY CHANGING STATION THIS ROOM - BID ALTERNATE "A"
22.01 FLOOR DRAIN - SLOPE CONCRETE SLAB MIN. 1/4:12 - REF. PLUMBING DWGS.
22.02 VENT PIPE, PER PLUMBING DWGS.
22.03 HOT WATER HEATER, PER PLUMBING DWGS.
22.04 JANITOR SINK - PER PLUMBING DWGS.
22.05 ROUGH IN PLUMBING FOR FUTURE SINK - REF. PLUMBING DWGS.
23.01 EXPOSED METAL VENTILATION PLENUM

WMB ARCHITECTS

5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

Standard Comfort Station #1
Roseville, CA

WMB Project No. 20-086

PUBLISH HISTORY:

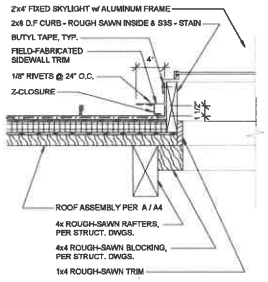
	DATE	PURPOSE
1	08.11.21	PLAN REVIEW 1
2	08.11.21	CC SUBMITTAL

CITY OF ROSEVILLE CALIFORNIA
PLANNING AND CODE COMPLIANCE
BUILDING DIVISION
GENERAL DESIGN DOCUMENTS
MUST BE ON JOB SITE

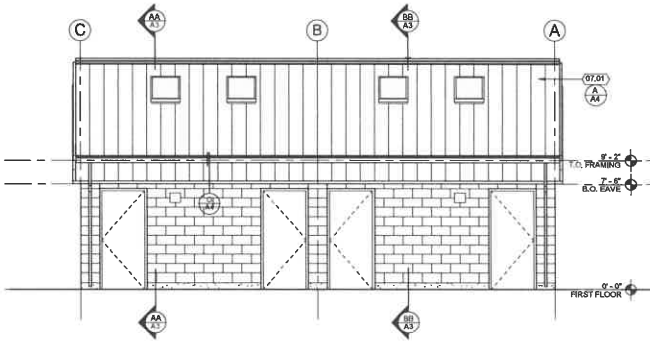
Not for Construction
For Council Approval

FLOOR, ROOF, + CEILING PLANS

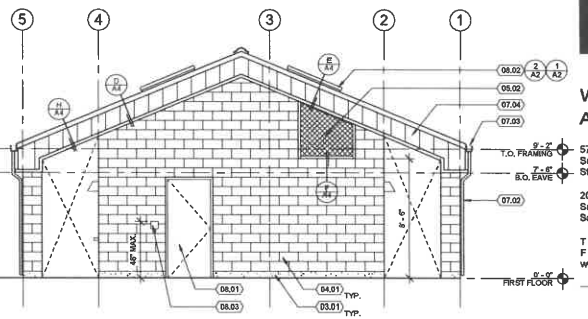
A1



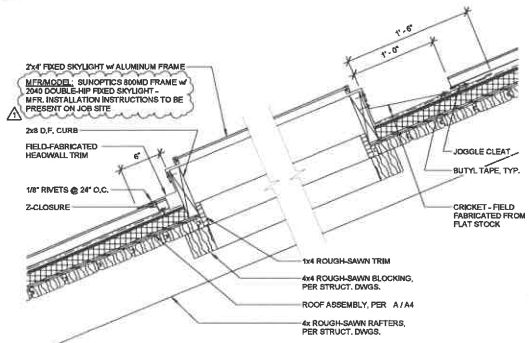
1 SKYLIGHT @ SIDEWALL
SCALE: 1 1/2" = 1'-0"



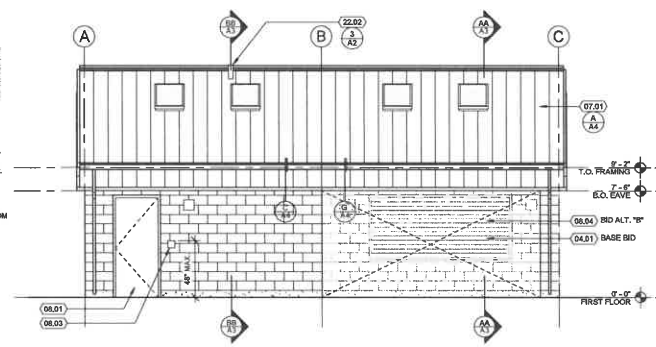
SIDE A
SCALE: 1/4" = 1'-0"



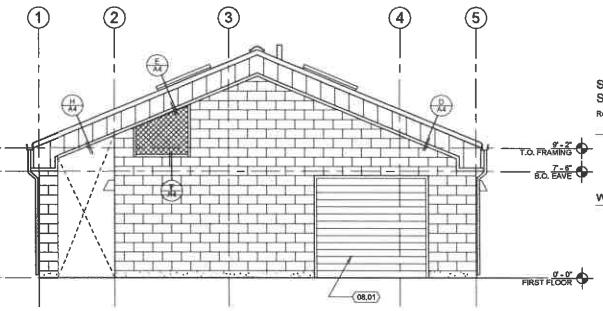
SIDE B
KEYNOTES TYP. AT ALL ELEVATIONS U.O.N.
SCALE: 1/4" = 1'-0"



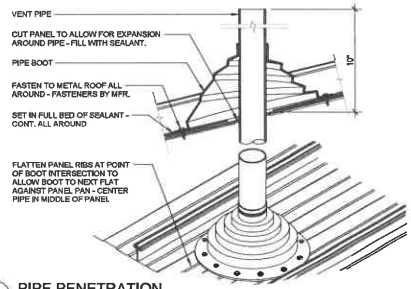
2 SKYLIGHT @ HEADWALL & CRICKET
SCALE: 1 1/2" = 1'-0"



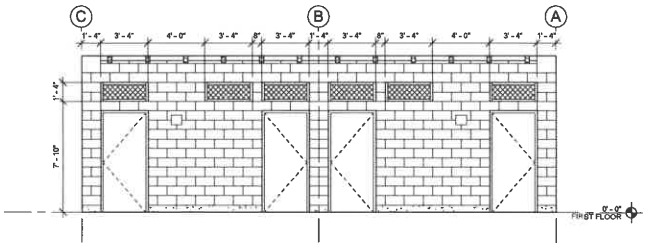
SIDE C
SCALE: 1/4" = 1'-0"



SIDE D
SCALE: 1/4" = 1'-0"



3 PIPE PENETRATION
SCALE: 1 1/2" = 1'-0"



SIDE A2 - WITHIN PORCH
SCALE: 1/4" = 1'-0"

EXTERIOR FINISHES

MASONRY WALLS
1ST & 2ND COAT: MASONRY SEALER

EXPOSED WOOD
1ST & 2ND COAT: CLEAR WOOD SEALER

NOTE:
ALL CONNECTORS TO BE EXPOSED AND UNFINISHED

KEYNOTES

03.01 6" CONCRETE CURB - EXPOSED AREA TO HAVE SMOOTH, SACK FINISH
04.01 8" CMU WALL - SPLIT FACE EXTERIOR, SMOOTH FACE INTERIOR - APPLY SEALANT AT EXTERIOR - REFER TO STRUCTURAL DWGS.
05.02 3/4" #9 FLATTENED 10 GA. EXPANDED METAL SCREEN PANEL - PAINT PANEL TO MATCH ROOF COLOR
07.01 STANDING SEAM METAL PANEL ROOFING - REFER TO DETAIL FOR TYP. ROOFING ASSEMBLY
07.02 2" DIA. SCH. 40 DOWNSPOUT - PAINT TO MATCH ROOF
07.03 5" BOX GUTTER, BY ROOFING MFR. - PAINT TO MATCH ROOF
07.04 METAL FASCIA PANEL TO MATCH ROOF
08.01 DOOR PER PLAN & SCHEDULE
08.02 24" x 48" SKYLIGHT, TYP.
08.03 PROVIDE BACKING PLATE AND CONDUIT FOR FUTURE CARD READER - REF. ELECTRICAL DWGS.
08.04 ROLL-UP DOOR WITH COUNTERTOP - BID ALTERNATE "B"
22.02 VENT PIPE, PER PLUMBING DWGS.

WMB ARCHITECTS
5757 Pacific Avenue
Suite 226
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Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

Standard Comfort Station #1
Roseville, CA

WMB Project No. 20-086

LICENSED ARCHITECT
STATE OF CALIFORNIA

PUBLISH HISTORY:

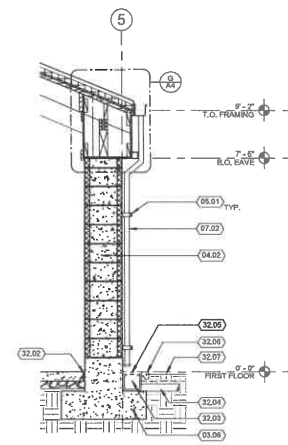
	DATE	PURPOSE
1	08.11.21	PLAN REVIEW 1
2	08.18.21	COORDINATION

CITY OF ROSEVILLE CALIFORNIA
BUILDING DIVISION
CONSTRUCTION DOCUMENTS MUST BE ON JOB SITE

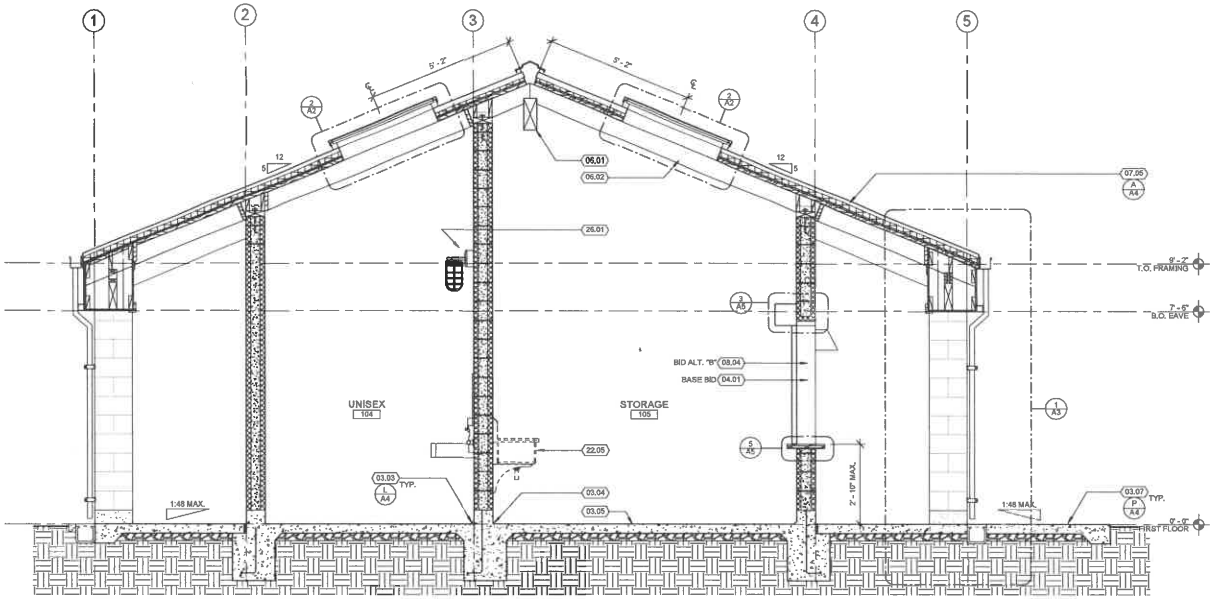
EXTERIOR ELEVATIONS

A2

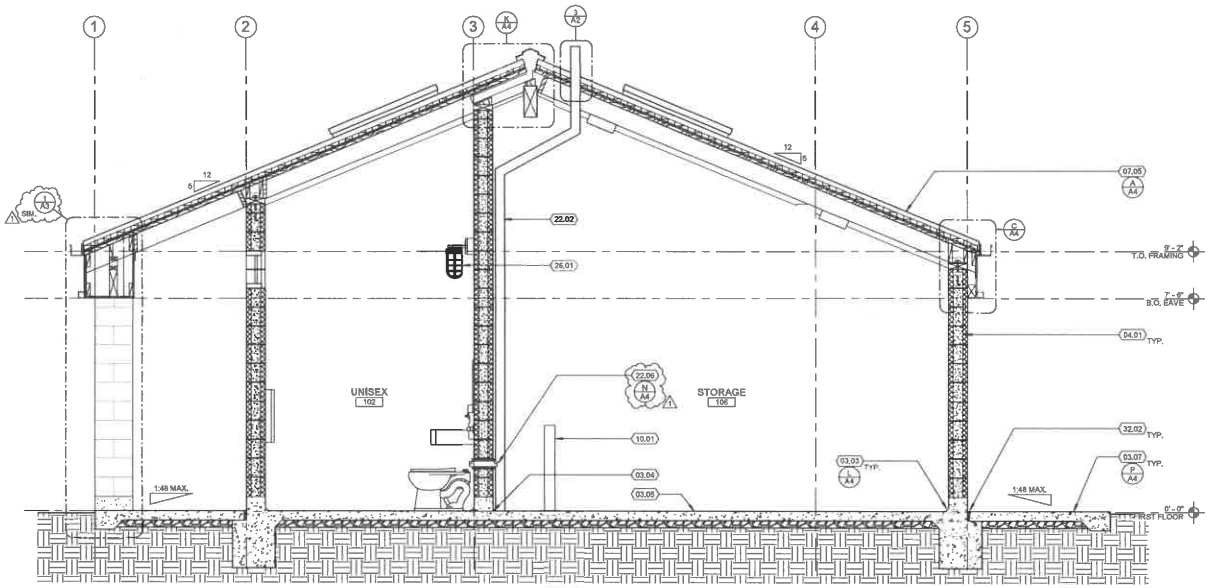
Not for Construction
For Council Approval



1 COLUMN SECTION
SCALE: 1/2" = 1'-0"



AA SECTION AA
SCALE: 1/2" = 1'-0"



BB SECTION BB
SCALE: 1/2" = 1'-0"

KEYNOTES

03.03 COVED CONCRETE BASE - EPOXY PAINT - TYPICAL
03.04 DO NOT COVE CONCRETE BASE AT BACKSIDE OF RESTROOM WALL
03.05 CONCRETE SLAB - REF. STRUCTURAL DWGS.
03.06 SET FOOTING BELOW CATCH BASIN AT DOWNSPOUT LOCATION
03.07 PERIMETER 4" REINFORCED CONCRETE SLAB - SLOPE AWAY FROM BUILDING MAXIMUM 1:48
04.01 8" CMU WALL - SPLIT FACE EXTERIOR, SMOOTH FACE INTERIOR - APPLY SEALANT AT EXTERIOR - REFER TO STRUCTURAL DWGS.
04.02 16" SQ. CONCRETE BLOCK COLUMN, PER STRUCT. DWGS.
05.01 UNISTRUT RACKING ON WALL @ 5'-0" O.C. - PRIME AND PAINT TO MATCH ROOF COLOR
06.01 EXPOSED BEAM, PER STRUCT. DWGS.
06.02 EXPOSED RAFTERS, PER STRUCT. DWGS.
07.02 2" DIA. SCH. 40 DOWNSPOUT - PAINT TO MATCH ROOF
07.05 ROOF ASSEMBLY PER DETAIL
08.04 ROLL-UP DOOR WITH COUNTERTOP - BID ALTERNATE "B"
10.01 4-1/2" DIA. x 36"H PIPE BOLLARD WELDED TO 8" SQ. 1/4" STEEL BASE PLATE - (4) 3/4" HILTI CONC. FASTENERS PER BOLLARD - PAINT SAFETY YELLOW
22.02 VENT PIPE, PER PLUMBING DWGS.
22.05 ROUGH IN PLUMBING FOR FUTURE SINK - REF. PLUMBING DWGS.
22.06 PIPE SLEEVE - PROVIDE AT LOCATION OF PIPES THOUGH CONCRETE MASONRY UNITS OR CONCRETE CURBS - REF. PLUMBING DWGS. FOR LOCATIONS
26.01 LIGHT FIXTURE - REF. ELECTRICAL DWGS.
32.02 3/8" THICK FELT EXPANSION JOINT MATERIAL ALL AROUND COLUMNS AND BUILDING
32.03 CATCH BASIN - COORDINATE w/ SITE CIVIL WORK
32.04 TO STORM DRAIN SYSTEM - COORDINATE w/ SITE CIVIL WORK
32.05 PROVIDE 2" MIN. AIR GAP ABOVE CATCH BASIN GRATE
32.06 CONCRETE MOW STRIP BUMP OUT AROUND CATCH BASIN - OMIT AT SIDEWALK
32.07 SIDEWALK OR GRADE, WHERE OCCURS

WMB ARCHITECTS

5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

Standard Comfort Station #1
Roseville, CA

WMB Project No. 20-086

PUBLISH HISTORY:

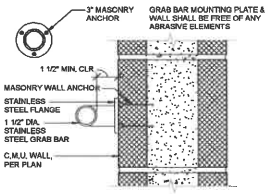
	DATE	PURPOSE
	05.13.21	100% CDS
1	08.11.21	PLAN REVIEW 1
2	08.11.21	COORDINATION

CITY OF ROSEVILLE CALIFORNIA
REVIEWED FOR CODE COMPLIANCE
BUILDING DIVISION
CONSTRUCTION DOCUMENTS
MUST BE ON JOB SITE
FR
03/07/2021 10:17:58
8021-0950

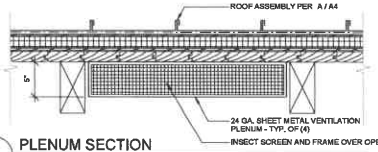
SECTIONS

A3

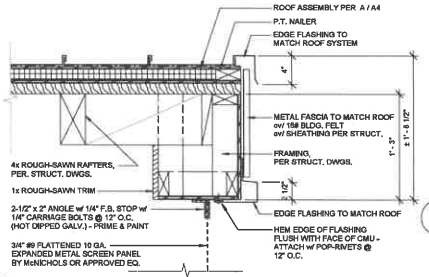
Not for Construction
For Council Approval



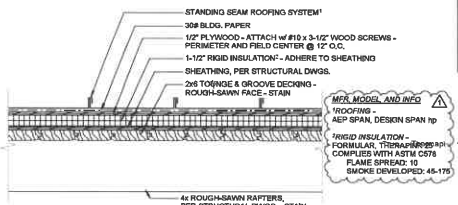
M GRAB BAR ATTACHMENT
SCALE: 3" = 1'-0"



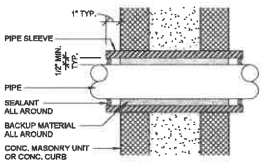
J PLENUM SECTION
SCALE: 1 1/2" = 1'-0"



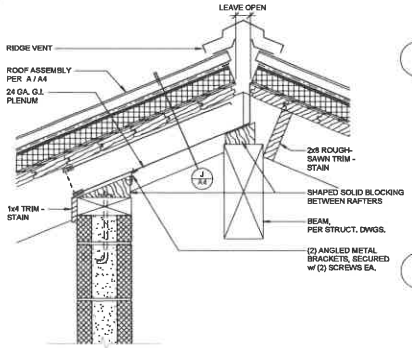
E VENT HEAD @ RAKE
SCALE: 1 1/2" = 1'-0"



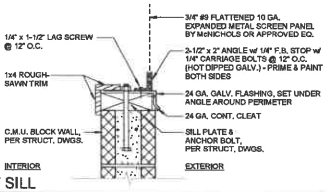
A TYP. ROOFING SYSTEM
SCALE: 1 1/2" = 1'-0"



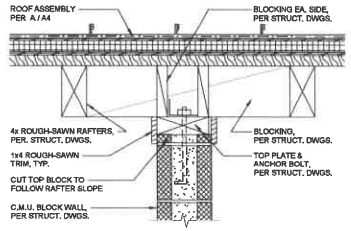
N PIPE THROUGH WALL OR FOOTING
SCALE: 3" = 1'-0"



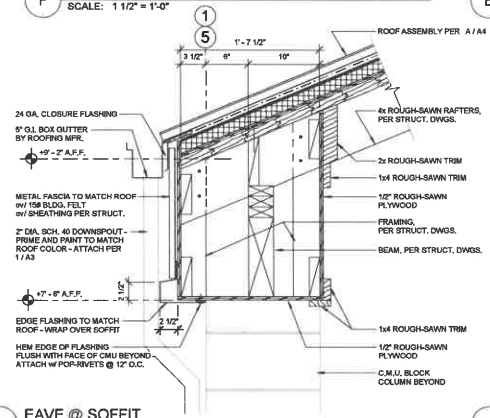
K PLENUM SECTION @ RIDGE
SCALE: 1 1/2" = 1'-0"



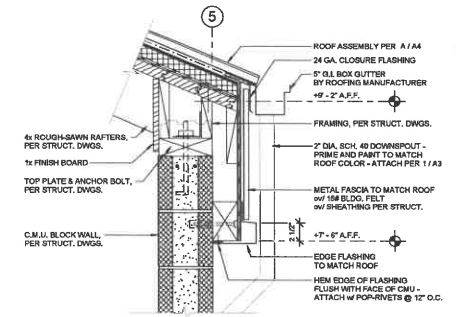
F VENT SILL
SCALE: 1 1/2" = 1'-0"



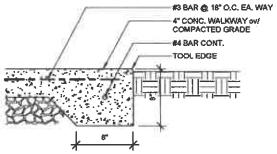
B HEAD OF WALL @ INT. CMU
SCALE: 1 1/2" = 1'-0"



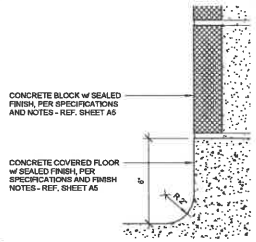
G EAVE @ SOFFIT
SCALE: 1 1/2" = 1'-0"



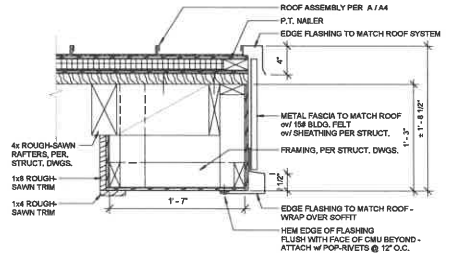
C EAVE @ WALL
SCALE: 1 1/2" = 1'-0"



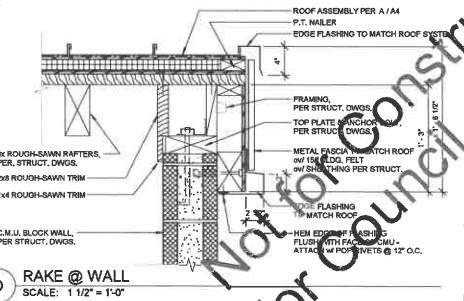
P EDGE OF CONCRETE WALK
SCALE: 1 1/2" = 1'-0"



L COVED CONC. BASE
SCALE: 3" = 1'-0"



H RAKE @ SOFFIT
SCALE: 1 1/2" = 1'-0"



D RAKE @ WALL
SCALE: 1 1/2" = 1'-0"

WMB ARCHITECTS
5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
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Standard Comfort Station #1
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WMB Project No. 20-086

PUBLISH HISTORY:

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	05.13.21	100% CD's
1	08.11.21	PLAN REVIEW 1
2	08.18.21	COORDINATION

DETAILS

A4

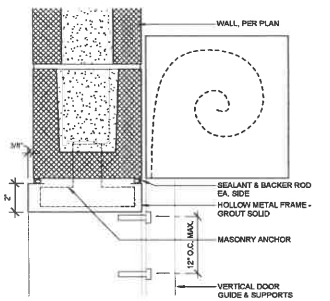
Not for Construction
For Council Approval

DOOR SCHEDULE

NO.	HDWR. SET	SIZE WIDTH	SIZE HEIGHT	PANEL TYPE	PANEL THK.	PANEL FACE	FRAME EXT. FIN.	FRAME INT. FIN.	FRAME MATERIAL	FRAME EXT. FIN.	FRAME INT. FIN.	DETAILS HD	DETAILS JB	DETAILS THD	COMMENTS
101.1	1	3'-0"	7'-0"	F	1 3/4"	H.M.	PAINT	PAINT	H.M.	PAINT	PAINT	2	2 SIM.	1	
102.1	1	3'-0"	7'-0"	F	1 3/4"	H.M.	PAINT	PAINT	H.M.	PAINT	PAINT	2	2 SIM.	1	
103.1	1	3'-0"	7'-0"	F	1 3/4"	H.M.	PAINT	PAINT	H.M.	PAINT	PAINT	2	2 SIM.	1	
104.1	1	3'-0"	7'-0"	F	1 3/4"	H.M.	PAINT	PAINT	H.M.	PAINT	PAINT	2	2 SIM.	1	
105.1	2	3'-0"	7'-0"	F	1 3/4"	H.M.	PAINT	PAINT	H.M.	PAINT	PAINT	2	2 SIM.	1	
105.2	-	6'-8"	4'-2"	O	2"	S.S.	S.S.	S.S.	H.M.	PAINT	PAINT	3		5	BID OPTION "B" SILL HEIGHT 2'-10"
106.1	2	3'-0"	7'-0"	F	1 3/4"	H.M.	PAINT	PAINT	H.M.	PAINT	PAINT	2	2 SIM.	1	
106.2	-	7'-8"	7'-0"	O	2"	STEEL	POWDER COAT	POWDER COAT	H.M.	PAINT	PAINT	3		-	SILL HEIGHT 0'-0"

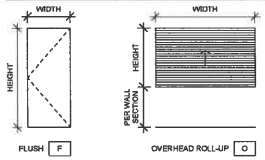
ROOM FINISH SCHEDULE

NO.	NAME	FLOOR	BASE	WALL	CEILING	COMMENTS
101	UNISEX	CC1	B1	P1/P2	ST1	P3 @ VENTS
102	UNISEX	CC1	B1	P1/P2	ST1	P3 @ VENTS
103	UNISEX	CC1	B1	P1/P2	ST1	P3 @ VENTS
104	UNISEX	CC1	B1	P1/P2	ST1	P3 @ VENTS
105	STORAGE	-	-	-	ST1	
106	STORAGE	-	-	-	ST1	



3 ROLL-UP DOOR HEAD
SCALE: 3" = 1'-0"

DOOR TYPES



NOTE:
SCHEDULED DOOR SIZE INDICATES PANEL DIMENSIONS, NOT OPENING SIZE IN MASONRY

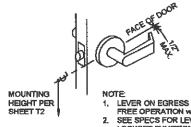
HARDWARE GROUPS

Group: 01
Doors: 101.1, 102.1, 103.1, 104.1
Scheduled Hardware:
Hinges: (2) Non-Electrified, (1) Electrified
Electrified Mortise Lockset
Kickplate
Door Bottom
Closer
Threshold
Stop

Group: 02
Doors: 105.*, 106.1
Scheduled Hardware:
Hinges: (3) Non-Electrified
Mortise Lockset
Threshold
Closer
Stop

GENERAL NOTES

1. MAXIMUM VERTICAL OFFSET AT DOOR THRESHOLD SHALL BE 1/4" VERTICAL OR 1/2" IF BEVELED - REFER TO THRESHOLD DETAIL(S).
2. ALL DOORS THAT ARE PART OF THE MEANS OF EGRESS SHALL BE EQUIPPED WITH HARDWARE THAT OPENS THE DOOR FROM THE INTERIOR WITHOUT SPECIAL KNOWLEDGE, EFFORT, OR A KEY.
3. MAXIMUM DOOR OPENING EFFORT SHALL BE 5# AT NON-RATED DOORS AND 15# AT FIRE RATED DOORS.
4. SEE SPECIFICATIONS FOR DOOR HARDWARE SETS AND PRODUCTS.
5. SCHEDULED DETAILS REFER TO DETAILS ON THIS SHEET U.O.N.
6. OPERATING HARDWARE FOR LOCKSETS/LATCHSETS SHALL BE LEVER TYPE.



NOTE
1. LEVER ON EGRESS SIDE SHALL PROVIDE FREE OPERATION w/o USE OF KEY
2. SEE SPECS FOR LEVER TYPE AND LOCKSET FUNCTION

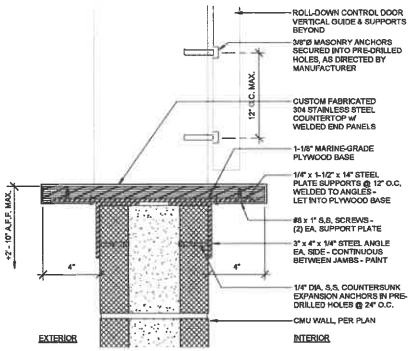
FINISHES LEGEND

CONCRETE
CC1 - EPOXY; COLOR: WHITE

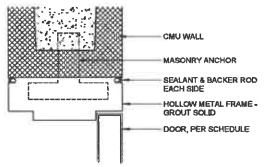
BASE
B1 - CONCRETE COVED BASE - FINISH TO MATCH FLOOR

PAINT
P1 - *INTERIOR MASONRY WALLS TO +54" A.F.F.* FILLER AND EPOXY PAINT
P2 - *INTERIOR MASONRY WALLS FROM +54" TO UNDERSIDE OF CEILING* FILLER AND PAINT; COLOR: WHITE
P3 - *STEEL* PRIMER AND PAINT; COLOR: AS SELECTED BY OWNER'S REPRESENTATIVE

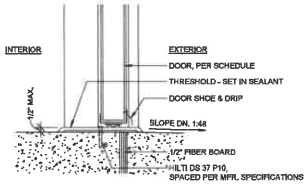
WOOD STAIN
ST1 - *INTERIOR WOOD CEILING, RAFTERS, & TRIM* STAIN; COLOR: AS SELECTED BY OWNER'S REPRESENTATIVE



5 ROLL-UP DOOR SILL @ COUNTERTOP
SCALE: 3" = 1'-0" BID OPTION "B"



2 H.M. DOOR HEAD
SCALE: 3" = 1'-0" (JAMB SIMILAR)



1 DOOR THRESHOLD
SCALE: 3" = 1'-0"

PRODUCT & MATERIAL REQUIREMENTS FOR INDOOR POLLUTANT CONTROL

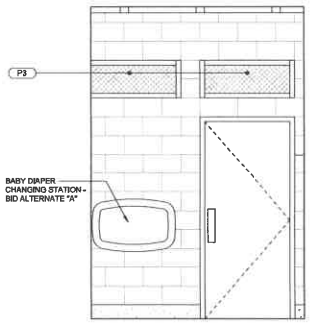
1. ALL MATERIALS, ADHESIVES, COATINGS, AND SEALANTS SHALL COMPLY WITH V.O.C. LIMITATIONS SET FORTH BY THE LOCAL AIR POLLUTION CONTROL DISTRICT OR CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 11 (CALGREEN BUILDING STANDARDS), WHICHEVER IS MORE RESTRICTIVE.
2. ALL HARDWOOD COMPOSITE WOOD PRODUCTS (PLYWOOD, PARTICLEBOARD, AND MEDIUM DENSITY FIBERBOARD) SHALL MEET THE MAXIMUM FORMALDEHYDE EMISSIONS LIMITATIONS AS SPECIFIED IN ARB'S AIR TOXIC CONTROL MEASURE FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ.) BY THE DATES SPECIFIED IN THOSE SECTIONS.
3. ARCHITECT HAS MADE EVERY REASONABLE ATTEMPT TO CONFIRM THAT PRODUCTS SPECIFIED IN THESE DOCUMENTS COMPLY WITH ABOVE-LISTED REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR, VENDOR, AND/OR MANUFACTURER TO NOTIFY THE ARCHITECT THROUGH THE GENERAL CONTRACTOR OF ANY NON-COMPLIANT PRODUCT OR MATERIAL SPECIFIED BY THE ARCHITECT PRIOR TO BID DUE DATE.
4. CONTRACTOR SHALL PROVIDE PRODUCT/MATERIAL COMPLIANCE DOCUMENTATION WITH SUBMITTAL DOCUMENTS AS REQUIRED BY SPECIFICATION SECTION 013323. CONTRACTOR SHALL SUBMIT COMPLIANCE DOCUMENTATION TO THE JURISDICTION HAVING AUTHORITY UPON ACCEPTANCE BY ARCHITECT.

RESTROOM ACCESSORY NOTES

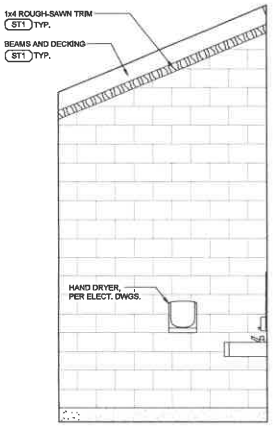
1. GENERAL CONTRACTOR TO PROVIDE AND INSTALL THE FOLLOWING:
   A. GRAB BARS
   B. HAND DRYER - REF. ELECTRICAL DWGS.
2. ALL OTHER ACCESSORIES (SUCH AS TOILET PAPER DISPENSERS, SOAP DISPENSERS, AND TOILET SEAT COVER DISPENSERS) TO BE PROVIDED BY THE CITY OF ROSEVILLE AND INSTALLED BY THE CONTRACTOR.
3. REFER TO SHEET T2 FOR MOUNTING HEIGHTS, CLEARANCES, AND ADDITIONAL REQUIREMENTS FOR ACCESSIBILITY

NO.	ITEM
1a	48" GRAB BAR
1b	36" GRAB BAR
2	TOILET TISSUE DISPENSER
3	SANITARY NAPKIN DISPOSAL
4	TOILET SEAT COVER
5	FRAME MIRROR
6	SOAP DISPENSER
7	HAND DRYER
8	BABY DIAPER CHANGING STATION (BID ALTERNATE "A") [1]

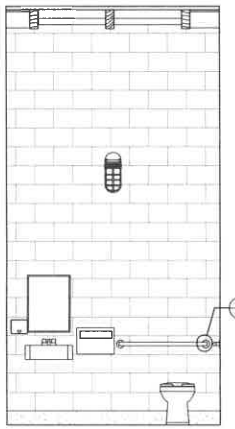
[1] KOALA KARE KB200
COLOR: WHITE GRANITE 05



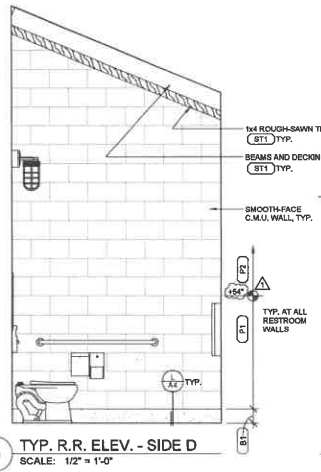
A TYP. RR. ELEV. - SIDE A
SCALE: 1/2" = 1'-0"



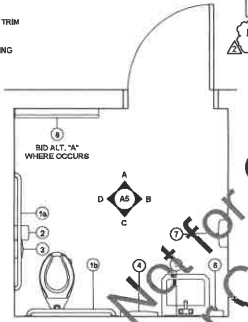
B TYP. RR. ELEV. - SIDE B
SCALE: 1/2" = 1'-0"



C TYP. RR. ELEV. - SIDE C
SCALE: 1/2" = 1'-0"



D TYP. R.R. ELEV. - SIDE D
SCALE: 1/2" = 1'-0"



TYP. RESTROOM PLAN
SCALE: 1/2" = 1'-0"

WMB ARCHITECTS
5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
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Standard Comfort Station #1
Roseville, CA

WMB Project No. 20-086

LICENSED ARCHITECT
STATE OF CALIFORNIA

PUBLISH HISTORY:

	DATE	PURPOSE
	05.13.21	100% CDs
1	08.11.21	PLAN REVIEW 1
2	08.13.21	CORRECTION

CITY OF ROSEVILLE CALIFORNIA
BUILDING DIVISION
CONSTRUCTION DOCUMENTS IS MUST BE ON JOB SITE

DOOR + FINISHES SCHEDULES

A5

Not for Construction
For Council Approval

STRUCTURAL ABBREVIATIONS:

@	AT	IBC	INTERNATIONAL BUILDING CODE
L (L)	ANGLE	ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
AB	ANCHOR BOLTS		
ABV	ABOVE	ICC	INTERNATIONAL CODE COUNCIL
AC	ASPHALTIC CONCRETE	ID	INSIDE DIAMETER
ACI	AMERICAN CONCRETE INSTITUTE	IN (")	INCH
ADDNL	ADDITIONAL	INTR	INTERIOR
AFF	ABOVE FINISH FLOOR	INFO	INFORMATION
AGG	AGGREGATE	JST	JOIST
AISC	AMERICAN INSTITUTE FOR STEEL CONSTRUCTION	JT	JOINT
AISI	AMERICAN IRON AND STEEL INSTITUTE	LG	LONG
ALT	ALTERNATE	LGTH	LENGTH
ALUM	ALUMINUM	LL	LIVE LOAD
APA	THE ENGINEERED WOOD ASSOCIATION	LLH	LONG LEG HORIZONTAL
APPROX	APPROXIMATE	LLV	LONG LEG VERTICAL
ARCH	ARCHITECT/ ARCHITECTURAL	LONG	LONGITUDINAL
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	LRFD	LOAD AND RESISTANCE FACTOR DESIGN
ASD	ALTERNATE STRESS DESIGN		
AWS	AMERICAN WELDING SOCIETY	LS	LAG SCREW
BEV	BEVELED	LSL	LAMINATED STRAND VENEER
BLW	BELOW	LVL	LAMINATED VENEER LUMBER
BLDG	BUILDING	LW	LIGHT WEIGHT
BLK	BLOCK	LWC	LIGHT WEIGHT CONCRETE
BLKG	BLOCKING	MAS	MASONRY
BM	BEAM	MAX	MAXIMUM
BN	BOUNDARY NAILING	MB	MACHINE BOLT
BC	BOTTOM CHORD	MCJ	MASONRY CONTROL JOINT
BOC	BOTTOM OF CONCRETE	MECH	MECHANICAL
BOF	BOTTOM OF FOOTING/ FOUNDATION	MEZZ	MEZZANINE
BTM	BOTTOM	MFR	MANUFACTURER
BRCG	BRACING	MIN	MINIMUM
BRG	BEARING	MISC	MISCELLANEOUS
BRG PL	BEARING PLATE	MLB	MICROLAM BEAM
BRKT	BRACKET	MRD	METAL ROOF DECK
BTWN	BETWEEN	MTL	METAL
BYD	BEYOND	(N)	NEW CONDITION
C	CAMBER	NF	NEAR FACE
CBC	CALIFORNIA BUILDING CODE	NHR	NO HOLDOWN REQUIRED
CC	CENTER TO CENTER	NIC	NOT IN CONTRACT
CE	CIVIL ENGINEER	NO (#)	NUMBER OR POUNDS
CG	CENTER OF GRAVITY	NOM	NOMINAL
C/P	CAST IN PLACE	NSG	NON SHRINK GROUT
CJ	CONSTRUCTION JOINT/ CONTROL JOINT	NTS	NOT TO SCALE
CLG	CEILING	NWC	NORMAL WEIGHT CONCRETE
CL (℄)	CENTER LINE	OI	OVER
CLR	CLEAR	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	OD	OUTSIDE DIAMETER
COL	COLUMN	OH	OPPOSITE HAND
CONC	CONCRETE	OPG	OPENING
CONN	CONNECTION	OSB	ORIENTED STRAND BOARD
CONT	CONTINUOUS	OWJ	OPEN WEB JOIST
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	PC	PIECE/ PILE CAP
CP	COMPLETE PENETRATION	PCC	PRECAST CONCRETE
CTR	CENTER	PERP	PERPENDICULAR
CTRD	CENTERED	PL (℄)	PLATE
DBL	DOUBLE	PLWD	PLYWOOD
DEPR	DEPRESSED	PLF	POUNDS PER LINEAR FOOT
DF	DOUGLAS FIR	PN	PERIMETER NAILING
DIA (Ø)	DIAMETER	PSF	POUNDS PER SQUARE FOOT
DIAG	DIAGONAL	PSI	POUNDS PER SQUARE INCH
DIM	DIMENSION	PSL	PARALLAM STRAND LUMBER
DIR	DIRECTION	PT	PRESSURE TREATED/ POINT
DL	DEAD LOAD	PTDF	PRESSURE TREATED DOUG FIR
DN	DOWN	R	RADIUS
DSA	DIVISION OF THE STATE ARCHITECT	REINF	REINFORCING
DTL	DETAIL	REQ'D	REQUIRE (REQUIRED)
DWG	DRAWING	RET	RETURN
(E)	EXISTING CONDITION	RETG	RETAINING
EA	EACH	RS	ROUGH SAWN
EF	EACH FACE	SAD	SEE ARCHITECTURAL DRWG'S.
EJ	EXPANSION JOINT	SC	SLIP CRITICAL
ELEV	ELEVATION	SCHED	SCHEDULE
EN	EDGE NAIL	SCL	STRUCTURAL COMPOSITE LUMBER
EOS	EDGE OF SLAB	SE	STRUCTURAL ENGINEER
EOR	ENGINEER OF RECORD	SEISM JT	SEISMIC JOINT
EQ (=)	EQUAL	SHTG	SHEATHING
ES	EACH SIDE	SIM	SIMILAR
EW	EACH WAY	SJ	SHRINKAGE JOINT
EW EF	EACH WAY EACH FACE	SLH	SHORT LEG HORIZONTAL
EB	EXPANSION BOLT	SLV	SHORT LEG VERTICAL
EXTR	EXTERIOR	SM	SHEET METAL
FAB	FABRICATE	SMS	SHEET METAL SCREWS
f'c	MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE	SOG	SLAB ON GRADE
		SP	STRUCTURAL PLYWOOD
FD	FLOOR DRAIN	SPEC	SPECIFICATION
FF	FINISH FLOOR	SQ	SQUARE
FFE	FINISH FLOOR ELEVATION	SS	STAINLESS STEEL
FG	FINISH GRADE	STAGGER	STAGGER
FHWS	FLAT HEAD WOOD SCREW	STD	STANDARD
FLG	FLANGE	STIFF	STIFFENER
FLR	FLOOR	STL	STEEL
f'm	MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF MASONRY	STRUC	STRUCTURAL
		SYM	SYMMETRICAL
FN	FIELD NAILING	SW	SHEARWALL
FND	FOUNDATION	T24	TITLE 24 CALIFORNIA CODE
FOC	FACE OF CONCRETE	THK	THICK/THICKNESS
FOM	FACE OF MASONRY	THRD	THREAD OR THREADED
FOS	FACE OF STUD	TN	TOE NAIL
FRMG	FRAMING	T&B	TOP AND BOTTOM
FT (')	FOOT/FEET	TC	TOP CHORD
FTG	FOOTING	TOC	TOP OF CONCRETE
Fy	SPECIFIED YIELD STRENGTH OF REIFORCING, PSI OR SPECIFIED MINIMUM YIELD STRESS OF STEEL, KSI	TOF	TOP OF FOOTING/ FRAMING
		TOS	TOP OF STEEL
		T.O.SLAB	TOP OF SLAB
GA	GAUGE	TOT	TOTAL
GALV	GALVANIZED	TOW	TOP OF WALL
GL	GLUE LAMINATED LUMBER	TRAN	TRANSVERSE
GLB	GLU LAM BEAM	TS	TUBE STEEL (SEE HSS)
GRD	GRADE	TYP	TYPICAL
GT	GROUT	UBC	UNIFORM BUILDING CODE
GWB	GYPSUM WALL BOARD	UNO	UNLESS NOTED OTHERWISE
HC	HANDICAP	VERT	VERTICAL
HD	HOLD DOWN	VIF	VERIFY IN FIELD
HDG	HOT DIPPED GALVANIZED	W/	WITH
HDR	HEADER	WF	WIDE FLANGE
HK	HOOK	WP	WORK POINT
HORIZ	HORIZONTAL	WS	WOOD SCREW
HT	HEIGHT	WT	WEIGHT
HSB	HIGH STRENGTH BOLT (A325)	WWF	WELDED WIRE FABRIC
HSS	HOLLOW STRUCTURAL SECTION		

CONCRETE:

1. CONCRETE CONSTRUCTION SHALL CONFORM TO TITLE 24, AND THE CODE, PER GENERAL NOTES.
2. CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ASTM C94 AND ACI STANDARD 304. IN ADDITION, MAXIMUM FREE FALL OF CONCRETE SHALL BE 4'-0".
3. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY SUITABLE MEANS DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF FORMS.
4. THE MINIMUM 28 DAY STRENGTH SHALL BE PER MIX DESIGN SCHEDULE.
5. CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II.
6. FLY ASH SHALL CONFORM TO ASTM 618, CLASS N OR F.
7. CONCRETE AGGREGATES: NATURAL SAND AND ROCK AGGREGATES SHALL CONFORM TO ASTM C33.
8. MINERAL ADMIXTURES SHALL COMPLY WITH ASTM C618.
9. LIQUID ADMIXTURES SHALL COMPLY WITH THE FOLLOWING:
   A. WATER REDUCERS ..... ASTM C494 TYPE A
   B. MID-RANGE WATER REDUCERS ..... ASTM C494 TYPE A & F
   C. NON-CHLORIDE ACCELERATORS ..... ASTM C494 TYPE C OR C & E
   D. RETARDING ADMIXTURES ..... ASTM C494 TYPE B OR B & D
10. GENERAL:
    A. NO PIPES OR DUCT SHALL BE PLACED IN CONCRETE SLABS OR WALLS UNLESS SPECIFICALLY DETAILED.
    B. REFER TO ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS FOR ALL MOULDS, GROOVES, ORNAMENTS, CLIPS, ETC. TO BE CAST IN CONCRETE.
11. ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318-14 SECTION 26.5.6 AND THE TYPICAL CONSTRUCTION JOINT DETAILS SHOWN ON THE STRUCTURAL DRAWINGS. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS, OR OTHER FOREIGN MATTER PRIOR TO PLACING THE ADJACENT CONCRETE. THE CONTRACTOR SHALL SUBMIT THE PROPOSED LOCATIONS OF CONSTRUCTION JOINTS TO THE ENGINEER FOR REVIEW BY THE STRUCTURAL ENGINEER BEFORE STARTING CONSTRUCTION.
12. MAXIMUM SPACING OF CONSTRUCTION OR CONTROL JOINTS FOR A REINFORCED SLAB ON GRADE SHALL BE 20 FEET.
13. REMOVE ALL DEBRIS AND EXCESS WATER FROM THE FORMS BEFORE PLACING ANY CONCRETE.
14. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED AND FREE OF EXCESSIVE SCALE, RUST, DIRT, GREASE, OIL OR ANY OTHER SUBSTANCES THAT WILL IMPAIR BOND WITH CONCRETE. OBTAIN APPROVAL OF ALL AFFECTED TRADES PRIOR TO PLACING CONCRETE.
15. WALLS SHALL BE PLACED IN HORIZONTAL LAYERS OF 2'-0" MAXIMUM DEPTH.
16. CONCRETE IN WALLS, PIERS OR COLUMNS SHALL SET AT LEAST 2 HOURS BEFORE PLACING CONCRETE IN BEAMS, SPANDRELS OR SLABS SUPPORTED THEREON.
17. NO WOOD SPREADERS ALLOWED. NO WOOD STAKES ALLOWED IN AREAS TO BE CONCRETED.
18. CONTRACTOR SHALL PREPARE AND SUBMIT CONCRETE MIX DESIGNS TO THE ARCHITECT/ ENGINEER OF RECORD FOR REVIEW PRIOR TO PLACEMENT OF ANY CONCRETE. CONCRETE MIX DESIGNS SHALL COMPLY WITH ACI 318-14 SECTION CHAPTER 5. CALCIUM CHLORIDE OR ADMIXTURES WHICH ADD CHLORIDES ARE NOT PERMITTED.
19. NOTIFY THE ENGINEER OF RECORD & TESTING LABORATORY (AND BUILDING OFFICIAL WHEN REQUIRED) 2 BUSINESS DAYS PRIOR TO PLACING CONCRETE.
20. CAST-IN-PLACE CONCRETE (NON-PRESTRESSED), THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
    A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ..... 3"
    B. CONCRETE EXPOSED TO EARTH OR WEATHER:
       NO. 6 THROUGH NO. 18 BAR ..... 2"
       NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER ..... 1 1/2"
    C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
       SLABS, WALLS, JOISTS:
       NO. 14 AND NO. 18 BAR ..... 1 1/2"
       NO. 11 BAR AND SMALLER ..... 3/4"
       BEAMS, COLUMNS:
       PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS ..... 1 1/2"
    D. CONCRETE TILT-UP PANELS CAST AGAINST A RIGID HORIZONTAL SURFACE, SUCH AS A CONCRETE SLAB, EXPOSED TO THE WEATHER:
       NO. 6 AND SMALLER ..... 1"
       NO. 9 THROUGH NO. 18 ..... 2"
21. REINFORCING BARS, SPLICES & DOWELS:
    A. ALL BARS SHALL HAVE A CLASS B MINIMUM SPLICE LAP, UNO. SEE REBAR LAP SCHEDULE.
    B. SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN 6'-0" APART.
    C. DOWEL ALL VERTICAL REINFORCING IN WALLS AND COLUMNS FROM FOUNDATION WITH THE SAME SIZE REINFORCING.
    D. SPLICE CONTINUOUS BARS IN SPANDRELS, GRADE BEAMS, WALL BEAMS, ETC. AS FOLLOWS: TOP BARS AT MIDSPAN, BOTTOM BARS AT CENTERLINE SUPPORT UNO.
22. HORIZONTAL WALL REINFORCING IN DOUBLE LAYER WALLS SHALL BE STAGGERED. USE #2 SPREADERS APPROXIMATELY EVERY THIRD INTERSECTION EACH DIRECTION FOR ALL DOUBLE LAYER WALLS.
23. MINIMUM WALL REINFORCING SHALL BE:

WALL THICKNESS	SINGLE LAYER	DOUBLE LAYER
7" OR LESS	#4 @ 12" OC EA WAY	-
8"	#4 @ 10" OC EA WAY	-
9" & 10"	-	#4 @ 18" OC EA WAY
11" & 12"	-	#4 @ 12" OC EA WAY

24. REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND INSTALLED IN ACCORDANCE WITH ACI 315.
25. FOR REINFORCING STEEL REQUIREMENTS REFER TO REINFORCING STEEL NOTES.
26. FINAL PRODUCT AS INDICATED ON DRAWINGS SHALL COMPLY WITH THE FOLLOWING:
    A. ALL CONCRETE SHALL HAVE A "CLASS B" FINISH PER ACI 347 WITH GRADUAL IRREGULARITIES LIMITED TO 1/4" IN 10'-0" AS MEASURED WITH A STRAIGHT EDGE.
    B. SURFACE IRREGULARITIES ATTRIBUTABLE TO PLACEMENT AND CONSOLIDATION DEFICIENCIES AS DEFINED IN ACE 309.2R (E.G., BUG HOLES, HONEYCOMB, ETC.) WILL BE REVIEWED BY THE ARCHITECT AND ENGINEER. UNSATISFACTORY WORK SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
    C. GRADUAL SURFACE IRREGULARITIES SHALL NOT BE CUMULATIVE.

MIX DESIGN SCHEDULE:

TYPE	USE CLASS	STRENGTH "f'c" MIN @ 28 DAYS (PSI)	CONCRETE UNIT WEIGHT (PCF)	MAX AGGREGATE SIZE (IN)	MAX SLUMP (IN)	MAX WATER TO CEMENT RATIO (%)	FLY ASH REPLACEMENT (%)
A	SLAB ON GRADE	3000	145	1"± 1/4""	4"±1"	0.50	25% MAX
B	FOUNDATIONS	3000	145	1"± 1/4"	4"±1"	0.50	25% MAX
C	WALLS	-	-	-	-	-	-
D	SLAB OVER METAL DECK	-	-	-	-	-	0
E	SITE	2500	145	1"± 1/4"	6"±1"	0.57	25% MAX
F	-	-	-	-	-	-	-

FOOTNOTES:
1. ADD WATER REDUCING ADMIXTURES PER SPECIFICATIONS FOR PLACING.
2. FOR HOT WEATHER CONCRETING REFER TO ACI 305R.
3. FOR COLD WEATHER CONCRETING REFER TO ACI 306R.
4. OTHER ADMIXTURES SHALL BE REVIEWED BY THE ENGINEER OF RECORD AND TESTING LABORATORY UPON CONCRETE MIX DESIGN SUBMITTAL.
5. SLUMPS SHALL NOT EXCEED 8" +/- 1 1/2" WHEN USING MID-RANGE WATER REDUCERS.
6. ADDITIONAL WATER SHALL NOT BE ADDED TO THE CONCRETE ONCE THE TRUCK LEAVES THE BATCH PLANT.

INSPECTION NOTES:

GENERAL:
IN ADDITION TO THE INSPECTIONS REQUIRED BY SECTION 110 OF THE 2019 CBC, THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PERFORM SPECIAL INSPECTIONS, TESTS & OBSERVATIONS AS INDICATED ON THE BUILDING DEPARTMENTS STATEMENT OF SPECIAL INSPECTION.

1. INSPECTORS: ALL TESTS, INSPECTIONS AND OBSERVATIONS SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION AGENCY WHICH IS IN THE EMPLOYMENT OF THE OWNER.
2. ALL SPECIAL INSPECTION & TESTING AGENCIES SHALL BE QUALIFIED PER ASTM E329 AND APPROVED BY THE BUILDING DEPARTMENT.
3. PROVIDE TEST, INSPECTION & OBSERVATION REPORTS TO THE BUILDING DEPARTMENT, OWNER, ARCHITECT AND ENGINEER WITHIN TWO WEEKS OF PERFORMANCE OF INSPECTIONS OR TEST.
4. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO SEE THAT THE TESTS, INSPECTIONS AND OBSERVATIONS ARE PERFORMED. JOB SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS.
5. WHERE THE CONTRACTOR CHOOSES TO USE OPTIONAL OR ALTERNATIVE MEANS OF FASTENING OR ANCHORING MATERIALS AS SHOWN ON THE PLANS AND DETAILS AND REQUIRES SPECIAL FIELD INSPECTION, SUCH AS FIELD WELDING, ADHESIVE OR EXPANSION ANCHORS, ETC. ALL ADDITIONAL SPECIAL INSPECTION AND TESTING COSTS SHALL BE PAID BY THE OWNER AND DEDUCTED FROM THE CONTRACTORS CONTRACT AMOUNT.
6. SCHEDULE OF SPECIAL INSPECTIONS:
   A. CONVENTIONALLY REINFORCED CONCRETE
   B. CONCRETE REINFORCEMENT
   C. CONCRETE CAST IN PLACE STEEL ANCHORS
   D. POST INSTALLED ANCHORS - INSTALLATION OF WEDGE ANCHORS AND EPOXY ANCHORS. PROVIDE TESTING WHERE SPECIFIED.
   E. PERIODIC INSPECTION OF PLYWOOD NAILING WHERE NAIL SPACING IS 4" OC OR LESS FOR SHEARWALLS, ROOF DIAPHRAGMS AND FLOOR DIAPHRAGMS.
   F. PERIODIC INSPECTION OF STRAPS, TOP PLATES AND HOLD DOWNS.

FOUNDATIONS:

1. THE PRESUMPTIVE LOAD-BEARING VALUES ARE PER CBC TABLE 1806.2 WITH A "CLASS OF MATERIALS" TYPE 5:
   A. VERTICAL FOUNDATION PRESSURE = 1,500 PSF DL + LL AND 2,000 PSF DL + LL + SHORT TERM FORCES.
   B. LATERAL BEARING PRESSURE = 100 PSF/FT BELOW NATURAL GRADE.
   C. LATERAL SLIDING RESISTANCE = 130 PSF COHESION TIMES THE SURFACE CONTACT AREA.
2. ALL SUBGRADE PREPERATION, SITEWORK, GRADING, UTILITY TRENCHING, ETC. SHALL BE DONE IN COMPLIANCE WITH THE CSC.
3. A GEOTECHNICAL ENGINEER HIRED BY THE OWNER SHALL INSPECT THE EXCAVATIONS AND FOUNDATIONS PER THE ABOVE AND THE CONSTRUCTION DOCUMENTS.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SHORE AND BRACE AS REQUIRED. SEE SAFETY NOTES FOR ADDITIONAL INFORMATION.
5. ALL FOUNDATIONS ARE SHOWN AND DIMENSIONED AS BEING FORMED. FOUNDATIONS MAYBE PLACED IN NEAT EXCAVATIONS PROVIDED FOOTINGS ARE INCREASED 2" IN WIDTH. SEE TYPICAL EXCAVATION DETAIL.
6. EXCAVATIONS SHALL BE CLEANED OF ALL DEBRIS AND LOOSE SOIL. STANDING WATER SHALL BE REMOVED PRIOR TO CONCRETE PLACEMENT.
7. FOUNDATION DEPTHS INDICATED ON PLANS ARE MINIMUMS AND ARE FOR ESTIMATING PURPOSES. FINAL DEPTHS OF FOOTINGS MAY CHANGE AT THE TIME OF EXCAVATION.
8. BOTTOMS OF ALL FOUNDATIONS SHALL BE LEVEL, CHANGES IN BOTTOM OF FOUNDATION ELEVATION SHALL BE MADE ACCORDING TO STEPPED FOOTING DETAILS.
9. FOOTINGS SHALL BE CENTERED UNDER WALLS AND/OR COLUMNS UNLESS OTHERWISE INDICATED ON DRAWINGS.
10. CONTRACTOR SHALL CHECK FOOTING FORMS TO VERIFY THAT THEY ARE SQUARE & PLUMB. THE CONTRACTOR SHALL ALSO VERIFY THAT ALL INSERTS & EMBEDS ARE IN THEIR CORRECT LOCATION & ORIENTATION PRIOR TO PLACING CONCRETE.
11. NOTIFY THE STRUCTURAL ENGINEER 48 HOURS IN ADVANCE OF PLACING CONCRETE.
12. FOOTING DEPTHS SPECIFIED ARE FROM LOWEST ADJACENT SUBGRADE, UNLESS NOTED OTHERWISE.

MASONRY NOTES:

1. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90-08b LIGHTWEIGHT WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 1900 PSI ON AVERAGE NET AREA (f'm=1500 PSI).
2. MORTAR SHALL BE TYPE S CONFORMING TO ASTM C91 AND CBC 2103.9, 1800 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH.
3. GROUT SHALL CONFORM TO CBC 2103.12 WITH 2000 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH.
4. REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND INSTALLED IN ACCORDANCE WITH ACI 350.
5. LAP ALL BARS 48 BAR DIAMETERS MINIMUM.
6. BEFORE MASONRY IS PLACED ON CONCRETE, THOROUGHLY CLEAN CONCRETE OF ALL LAITANCE AND ALL LOOSE MATERIAL. CONCRETE SHALL BE ROUGHENED BY CHIPPING THE ENTIRE SURFACE, SANDBLASTING, OR HOSING THE SURFACE 4 TO 8 HOURS AFTER THE POUR WITH A FINE SPRAY.
7. CONCRETE MASONRY UNIT AND SOLID SHELL HOLLOW BRICK UNITS SHALL BE BUILT TO PRESERVE THE UNOBSTRUCTED CONTINUITY OF THE VERTICAL CELLS. WALLS AND CROSS WEBS FORMING SUCH CELLS SHALL BE FULLY BEDDED IN MORTAR. ALL HEAD OR END JOINTS SHALL BE SIMILARLY FILLED WITH MORTAR FOR A DISTANCE ½" IN FROM THE FACE OF THE WALL OR UNITS NOR LESS THAN THE THICKNESS OF THE LONGITUDINAL FACE SHELLS.
8. VERTICAL CELLS SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR UNOBSTRUCTED CONTINUOUS VERTICAL CELL MEASURING NOT LESS THAN 3"x3".
9. CLEAN OUT OPENINGS SHALL BE PROVIDED AT THE BOTTOMS OF ALL CELLS TO BE FILLED AT EACH LIFT OR POUR OF GROUT WHERE SUCH LIFT OR POUR OF GROUT IS IN EXCESS OF 4'-0" IN HEIGHT. ANY OVERHANGING MORTAR OR OTHER OBSTRUCTION OR DEBRIS SHALL BE REMOVED FROM INSIDE OF SUCH CELLS. THE CLEANOUTS SHALL BE SEALED AFTER INSPECTION AND BEFORE GROUTING.
10. VERTICAL REINFORCING SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS.
11. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED STOPPING THE POUR 1-1/2 INCHES BELOW THE TOP OF THE UPPERMOST UNIT.
12. PLACE ALL HORIZONTAL BARS IN BOND BEAM UNITS. WHEN 2 BARS ARE USED, STAGGER LAPS 6'-0" MIN.
13. PROVIDE DOWEL TO FOUNDATION OF EQUAL DIAMETER AND 48 BAR DIAMETER LAP AT EACH VERTICAL BAR IN WALLS. DOWELS TO BE STRAIGHT AND PLUMB.
14. ALL CELLS SHALL BE GROUTED SOLID.
15. ALL CONCRETE MASONRY UNITS SHALL BE OPEN END BOND BEAM UNITS.
16. SPECIAL INSPECTION REQUIRED ON ALL MASONRY WALLS.
17. ALL BOLTS SHALL BE GROUTED IN PLACE WITH AT LEAST 1 INCH OF GROUT BETWEEN THE BOLT AND THE MASONRY. BOLTS SHALL BE HEADED.
18. CONCRETE MASONRY UNITS SHALL BE PLACED WITH COMMON BOND.
19. CONSTRUCTION SHALL COMPLY WITH CBC 2104.5.
20. ALL HORIZONTAL BARS SHALL HAVE STANDARD BENDS AT THE ENDS.
21. VERTICAL CONTROL JOINTS SHALL BE SPACED AT 25'-0" MAXIMUM AND AS SHOWN ON THE CONSTRUCTION DOCUMENTS.
22. CONTRACTOR MAY CONSTRUCT MASONRY WALLS USING THE HIGH LIFT METHOD. CONSTRUCTION SHALL FULLY COMPLY WITH CBC 2104.3 CONCRETE MASONRY HIGH LIFT GROUTING METHOD: 2019 CBC. THE HIGH LIFT METHOD SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND ACCEPTANCE PRIOR TO ANY CONSTRUCTION TAKING PLACE.

GENERAL NOTES:

1. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
2. TYPICAL NOTES AND DETAILS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS.
3. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITION.
4. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES: 2019 CALIFORNIA BUILDING CODE, PART 2 TITLE 24 CCR 2019 EDITION AND LATEST REVISIONS REFERRED TO HERE AS "THE CODE", AND OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
5. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. IF CONFLICTS OCCUR BETWEEN DRAWINGS AND SPECIFICATIONS, THE MOST EXPENSIVE MATERIALS OR METHODS SHALL PREVAIL (FOR BIDDING). STRUCTURAL ENGINEER SHALL BE NOTIFIED OF CONFLICTS AND THAT PORTION OF WORK SHOULD NOT PROCEED UNTIL CONFLICT IS RESOLVED.
6. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
   A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS.
   B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS.
   C. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.
   D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN.
   E. FLOOR AND ROOF FINISHES.
   F. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
7. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THE FOLLOWING:
   A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC. EXCEPT AS SHOWN OR NOTED.
   B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALL OR SLABS.
   C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
8. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
9. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.
10. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
11. HEAVY EQUIPMENT, CRANES AND MATERIAL TRUCKLOADS SHALL NOT BE LOCATED ON OR ADJACENT TO SHORING.
12. SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE, OR DETAILS SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER AND APPROVED BY THE BUILDING DEPARTMENT. FOR A SUBSTITUTION TO BE REVIEWED THE CONTRACTOR SHALL AGREE & COMPLY WITH THE FOLLOWING:
    A. THE CONTRACTOR SHALL BE BILLED ON A TIME AND MATERIALS BASIS FOR THE REVIEW OF THE SUBSTITUTION WITH NO GUARANTEE OF APPROVAL.
    B. VERIFY THAT THE SUBSTITUTION DOES NOT AFFECT DIMENSIONS SHOWN ON DRAWINGS.
    C. THE CONTRACTOR SHALL ALSO PAY FOR CHANGES TO THE DESIGN, WHICH INCLUDES BUT IS NOT LIMITED TO; ENGINEERING DESIGN, DETAILING, APPROVAL AGENCY PROCESS AND CONSTRUCTION COSTS CAUSED BY THE REQUESTED SUBSTITUTION.
    D. THE PROPOSED SUBSTITUTION IS TO HAVE NO ADVERSE AFFECT ON OTHER TRADES, THE CONSTRUCTION SCHEDULE, OR THE SPECIFIED WARRANTY REQUIREMENTS.
13. NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER IN ADVANCE OR SHOWN ON THESE DRAWINGS.
14. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. DIMENSIONS AND ELEVATIONS MUST BE VERIFIED WITH ARCHITECTURAL DRAWINGS, IN THE EVENT OF A CONFLICT, THE STRUCTURAL ENGINEER AND ARCHITECT ARE TO BE NOTIFIED IMMEDIATELY. DRAWING SCALES GIVEN ARE APPROXIMATE- DO NOT SCALE PLANS OR DETAILS.
15. SITE VISITS BY STRUCTURAL ENGINEER SHALL NOT BE IN LIEU OF INSPECTIONS.
16. ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING STRUCTURE WERE PROVIDED BY OTHERS AND ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS AND COORDINATE WITH ALL SUB-CONTRACTORS AND DISCIPLINES. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER. FINISH ELEVATIONS AT ALL NEW FRAMING SHALL BE COORDINATED WITH THE EXISTING FRAMING SO ALL FINISHES ARE FLUSH.
17. ALL FRAMING IN THE DOCUMENTS SHALL BE CONSIDERED NEW UNLESS SPECIFICALLY NOTED AS EXISTING.

DESIGN CRITERIA:

2019 CALIFORNIA BUILDING CODE (CBC)

LIVE LOADS
- ROOF LIVE = 20 PSF (REDUCIBLE)

WIND (ASCE 7-16 SIMPLIFI

NAILING NOTES & SCHEDULE:

1. ALL NAILS FOR STRUCTURAL WORK SHALL BE COMMON STEEL WIRE NAILS. HOLES SHALL BE PRE-DRILLED WHERE NECESSARY TO PREVENT SPLITTING. NAILING NOT NOTED IN SCHEDULE OR ON DRAWINGS SHALL BE A MINIMUM OF TWO NAILS AT EACH CONTACT: 8d FOR 1x MATERIAL AND 16d FOR 2x MATERIAL
2. NAILS AND SPIKES USED IN WET OR EXTERIOR LOCATIONS SHALL BE HOT-DIPPED ZINC COATED GALVANIZED STEEL PER CBC SECTION 2304.10.5.3 (A)
3. FASTENERS FOR PRESSURE - PRESERVATIVE-TREATED AND FIRE RETARDANT TREATED LUMBER SHALL BE HOT-DIPPED ZINC COATED GALVANIZED STEEL PER CBC SECTION 2304.10.5.1 (A)
4. PNEUMATIC FASTENERS INSTALLED IN SIMPSON HANDWA STRIP SHALL BE APPROVED BY SIMPSON AND SEOR PRIOR TO INSTALLATION.
5. PNEUMATIC FASTENERS TO BE INSTALLED INTO PLYWOOD SHEATHING SHALL BE SEOR APPROVED AND SHALL FALL WITHIN THE 10% TOLERANCE LIMIT FOR HAND DRIVEN NAILS PER ASTM F1667 FOR HEAD DIAMETER. ALL NAIL HEADS TO BE FULL ROUND HEADS.
6. MINIMUM NAIL DIMENSIONS:

NAIL	SHANK DIAMETER	HEAD DIAMETER	LENGTH
8d	.131"	.281"	2 1/2"
10d	.148"	.312"	3"
16d	.162"	.344"	3 1/2"
20d	.192"	.406"	4"

MINIMUM NAILING SCHEDULE (UNO):
(REFERENCE CBC TABLE 2304.10.1)

DESCRIPTION OF BUILDING ELEMENTS:	NUMBER & TYPE OF FASTNER:	SPACING & LOCATION:
	ROOF:	
1. BLKG BTWN CEILING JSTS, RAFTERS OR TRUSSES TO TOP PL OR OTHER RNG BLW	(3) 8d COMMON (2 1/2"x0.131"); OR (3) 3"x0.131" NAILS	EACH END, TOENAIL
BLKG BTWN RAFTERS OR TRUSS NOT AT THE WALL TOP PL TO RAFTER OR TRUSS	(2) 8d COMMON (2 1/2"x0.131"); OR (2) 3"x0.131" NAILS	EACH END, TOENAIL
	(2) 16d COMMON (3 1/2"x0.162"); OR (3) 3"x0.131" NAILS	END NAIL
FLAT BLKG TO TRUSS & WEB FILLER	16d COMMON (3 1/2"x0.162") @ 6" OC OR 3"x0.131" NAILS @ 6" OC	FACE NAIL
2. CEILING JSTS TO TOP PL	(3) 8d COMMON (2 1/2"x0.131"); OR (3) 3"x0.131" NAILS	EACH JOIST, TOENAIL
3. CEILING JST NOT ATTACHED TO PARALLEL RAFTER, LAPS O/ PARTITIONS (NO THRUST) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	(3) 16d COMMON (3 1/2"x0.162"); OR (4) 3"x0.131" NAILS	FACE NAIL
4. CEILING JST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	PER TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	(3) 10d COMMON (3"x0.148"); OR (4) 3"x0.131" NAILS	FACE NAIL
6. RAFTER OR ROOF TRUSS TO TOP PL (SEE SECTION 2308.7.5, TABLE 2308.7.5)	(5) 10d COMMON (3"x0.148"); OR (4) 3"x0.131" NAILS	TOENAIL
7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2-INCH RIDGE BEAM	(2) 16d COMMON (3 1/2"x0.162"); OR (3) 3"x0.131" NAILS	END NAIL
	(3) 10d COMMON (3 1/2"x0.148"); OR (4) 3"x0.131" NAILS	TOENAIL
	WALL:	
8. STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2"x0.162"); OR	24" OC FACE NAIL
	3"x0.131" NAILS	16" OC FACE NAIL
9. STUD TO STUD & ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d COMMON (3 1/2"x0.162"); OR	16" OC FACE NAIL
	3"x0.131" NAILS	12" OC FACE NAIL
10. BUILT-UP HEADER (2" TO 2" HEADER)	16d COMMON (3 1/2"x0.162")	16" OC EACH EDGE, FACE NAIL
11. CONT HEADER TO STUD	(4) 8d COMMON (2 1/2"x0.131")	TOENAIL
12. TOP PL TO TOP PL	16d COMMON (3 1/2"x0.162"); OR	16" OC FACE NAIL
	3"x0.131" NAILS	12" OC FACE NAIL
13. TOP PL TO TOP PL, AT END JOINTS	(8) 16d COMMON (3 1/2"x0.162"); OR (12) 3"x0.131" NAILS	8S OF END JOINT, FACE NAIL (MIN 24" LAP SPLICE LENGTH 8S OF END JOINT)
14. BOTTOM PL TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2"x0.162"); OR	16" OC FACE NAIL
	3"x0.131" NAILS	12" OC FACE NAIL
15. BOTTOM PL TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (AT BRACED WALL PANELS)	(2) 16d COMMON (3 1/2"x0.162"); OR (4) 3"x0.131" NAILS	16" OC FACE NAIL
16. STUD TO TOP OR BOTTOM PL	(4) 8d COMMON (2 1/2"x0.131"); OR (4) 3"x 0.131" NAILS	TOENAIL
	(2) 16d COMMON (3 1/2"x0.162"); OR (3) 3"x 0.131" NAILS	END NAIL
17. TOP OR BOTTOM PL TO STUD	(2) 16d COMMON (3 1/2"x0.162"); OR (3) 3"x0.131" NAILS	END NAIL
18. TOP PL'S, LAPS AT CORNERS & INTERSECTIONS	(2) 16d COMMON (3 1/2"x0.162"); OR (3) 3"x0.131" NAILS	FACE NAIL
19. 1" BRACE TO EACH STUD & PL	(2) 8d COMMON (2 1/2"x0.131"); OR (2) 3"x0.131" NAILS	FACE NAIL
20. 1"x8" SHEATHING TO EACH BEARING	(2) 8d COMMON (2 1/2"x0.131")	FACE NAIL
21. 1"x8" & WIDER SHEATHING TO EACH BEARING	(3) 8d COMMON (2 1/2"x0.131")	FACE NAIL
	FLOOR:	
22. JOIST TO SILL, TOP PL, OR GIRDER	(3) 8d COMMON (2 1/2"x0.131"); OR (3) 3"x0.131" NAILS	TOENAIL
23. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PL, SILL OR OTHER FRAMING BELOW	8d COMMON (2 1/2"x0.131"); OR 3"x0.131" NAILS	6" OC TOENAIL
24. 1"x8" SUBFLOOR OR LESS TO EACH JOIST	(2) 8d COMMON (2 1/2"x0.131")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	(2) 16d COMMON (3 1/2"x0.162")	FACE NAIL
26. 2" PLANKS (PLANK & BEAM - FLOOR & ROOF)	(2) 16d COMMON (3 1/2"x0.162")	EACH BEARING, FACE NAIL
27. BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20d COMMON (4"x0.192")	32" OC FACE NAILS AT T&B STAGGERED ON OPPOSITE SIDES
	10d BOX (3"x0.128"); OR 3"x 0.131" NAILS	24" OC FACE NAILS AT T&B STAGGERED ON OPPOSITE SIDE
	AND: (2) 20d COMMON (4"x0.192"); OR (3) 3"x 0.131" NAILS	ENDS AND AT EACH SPLICE, FACE NAIL
28. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	(3) 16d COMMON (3 1/2"x0.162"); OR (4) 3"x0.131" NAILS	EACH JOIST OR RAFTER, FACE NAIL
29. JOIST TO BAND JOIST OR RIM JOIST	(3) 16d COMMON (3 1/2"x0.162"); OR (4) 3"x0.131" NAILS	END NAIL
30. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	(2) 8d COMMON (2 1/2"x0.131"); OR (2) 3"x 0.131" NAILS	EACH END, TOENAIL

WOOD STRUCTURAL PANELS (WSP), SUBFLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING*

		EDGES (INCHES)	INTER-MEDIATE SUPPORTS (INCHES)
31. 3/8" - 1/2"	6d COMMON OR DEFORMED (2"x0.113") (SUBFLOOR AND WALL)	6	12
	2 5/8"x0.115" NAILS (SUBFLOOR AND WALL)	6	12
	2 3/8"x0.113" NAILS (ROOF)	4	8
32. 19/32" - 3/4"	8d COMMON (2½"x0.131"); OR	6	12
	2 3/8"x0.113" NAILS	4	8
33. 7/8" - 1 1/4"	10d COMMON (3"x0.148")	6	12
WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING			
36. 3/4" AND LESS	8d COMMON (2½"x0.131")	6	12
37. 7/8" - 1"	8d COMMON (2½"x0.131")	6	12
38. 1 1/8" - 1 1/4"	10d COMMON (3"x0.148")	6	12

NOTES:
1. ALL SECTIONS AND TABLES NOTED ABOVE REFERENCE CBC, UNO.

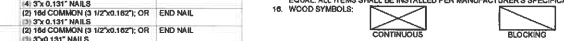
FOOTNOTES:
a. NAILS SPACE AT 6 INCHES AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLE BOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
c. THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE. THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD NOTES:

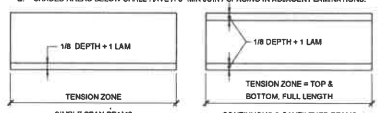
1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
   - A. DOUGLAS FIR- COAST REGION ..... WEST COAST LUMBER INSPECTION BUREAU GRADING RULES #17.
   - B. REDWOOD ..... CALIFORNIA REDWOOD ASSOCIATION GRADING RULES, 2000 EDITION.
   - C. GLUED LAMINATED BEAMS ..... STANDARD SPECIFICATION FOR STRUCTURAL GLUE LAMINATED TIMBER, AITC 117.
   - D. SHEATHING ..... APA VOLUNTARY PRODUCT STANDARD PS 2-10 FOR WOOD BASED STRUCTURAL-USE PANELS.
   - E. ENGINEERED LUMBER ..... WEYERHAEUSER MICROLLAM LAMINATED VENEER LUMBER (LVL), ICC ESR-1387
     WEYERHAEUSER PARALLAM (PSL), ICC ESR-1387
2. MINIMUM GRADES SHALL BE:
   - A. STRUCTURAL FRAMING ..... POSTS, HEADERS, BEAMS AND STUDS OF #1, ALL OTHER DF #2 UNO
     ..... CEILING JOISTS DF #2 & BLOCKING DF #2
     ..... ALL MEMBERS TO BE FREE OF HEART CENTER. TYP. UNO
   - B. GLUED LAMINATED MEMBERS. ..... COMBINATION 24F-V4 FOR SIMPLE SPANS COMBINATION 24F-V8 FOR CANTILEVERS AND CONTINUOUS CONDITIONS.
   - C. STRUCTURAL SHEATHING ..... WALL SHEATHING: 15/32" APA RATED SHEATHING EXP 1 (UNO), 5 PLY 32/16 OSB
   - D. ROOF SHEATHING: ..... 19/32" APA RATED SHEATHING EXP 1, UNO, 5-PLY 40/20 OSB
   - E. FLOOR SHEATHING: ..... 23/32" APA RATED STURD-I-FLOOR EXP 1, UNO, 5-PLY 48/24 TONGUE AND GROOVE OSB
   - F. LVL ..... SHALL MEET THE FOLLOWING STRUCTURAL PROPERTIES: Fb = 2800 PSI, Fv = 285 PSI, E = 1.9E6 PSI
   - G. PSL ..... SHALL MEET THE FOLLOWING STRUCTURAL PROPERTIES: Fb = 2900 PSI, Fv = 290 PSI, E = 2.0E6 PSI
3. WALLS SHALL HAVE DOUBLE TOP PLATES, LAPPED AT WALL AND PARTITION INTERSECTION WITH 3-16d NAILS. SPLICE UPPER AND LOWER PLATES AS SHOWN IN TYPICAL WALL FRAMING DETAIL.
4. PROVIDE SOLID BLOCKING BETWEEN JOISTS OR RAFTERS AT ALL SUPPORTS & AT 12' OC.
5. WHEN TOP PLATES ARE NOTCHED OR BORED- SEE TYPICAL DETAIL.
6. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
7. LEAD HOLES FOR LAG SCREWS LOADED LATERALLY AND IN WITHDRAWAL SHALL BE BORED AS FOLLOWS TO AVOID SPLITTING OF THE WOOD MEMBER DURING CONNECTION FABRICATION:
   - A. THE CLEARANCE HOLE THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK, AND THE SAME DEPTH PENETRATION AS THE LENGTH OF UNTHREADED SHANK.
   - B. THE LEAD HOLE FOR THE THREADED PROTION SHALL HAVE A DIAMETER EQUAL TO 65% TO 85% OF THE SHANK DIAMETER IN WOOD WITH G > 0.6, 60% TO 75% IN WOOD WITH 0.5 < G < 0.6, AND 40% TO 70% IN WOOD WITH G ≤ 0.5 AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. THE LARGER PERCENTILE IN EACH RANGE SHALL APPLY TO LAG SCREWS OF GREATER DIAMETERS.
8. LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
9. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO EXPANSION AND EPOXY ANCHORS.

BOLT-DIA	MALLEABLE IRON WASHER	STEEL WASHER	CARRIAGE BOLT-DIA	WROUGHT IRON WASHER
1/2"Ø	(2) 1/2"Øx1/4"	3"x3"x1/4"	1/2"Ø	3/4" (1" OD)
5/8"Ø	(2) 3/4"Øx5/16"	3"x3"x1/4"	5/8"Ø	7/8" (2 1/4" OD)
3/4"Ø	1"Øx7/16"	3"x3"x5/16"	3/4"Ø	1" (2 1/2" OD)
7/8"Ø	(3) 1/2"Øx7/16"	(3) 1/2"x3 1/2"x3/8"	7/8"Ø	(1) 3/8" (3" OD)
1"Ø	4"Øx1/2"	(3) 3/4"x3 3/4"x3/8"	1"Ø	(1) 1/2" (3 1/4" OD)
1 1/4"Ø	5"Øx5/8"	5"x5"x1/2"		

10. ALL BOLTS AND LAG SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
11. INSTALL ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
12. CROSS BRIDGING BETWEEN JOISTS OR RAFTERS- SEE FRAMING PLANS AND TYPICAL DETAIL.
13. JOISTS UNDER AND PARALLEL TO NON-BEARING PARTITIONS SHALL BE DOUBLED AND NAILED TOGETHER.
14. WHERE FRAMING HANGERS ARE REQUIRED AND ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEW, TURN IN FLANGES AND PROVIDE TOP FLANGE HANGERS AS REQUIRED.h
    - H. 2X & 3X MEMBERS ..... U HANGERS
    - I. 4X MEMBERS ..... HU HANGERS
    - J. 6X MEMBERS ..... HUTF HANGERS
    - K. I-JOIST MEMBERS ..... MIT HANGERS
    - L. GLU LAM MEMBERS ..... LSG HANGERS
15. ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY, OR APPROVED EQUAL. ALL ITEMS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
16. WOOD SYMBOLS:



17. PROVIDE PLYWOOD EDGE NAILING AROUND ALL OPENINGS AND BLOCK ALL UNSUPPORTED PLYWOOD EDGES.
18. UPSET THREADS ON SILL BOLTS ARE NOT ALLOWED.
19. ALL FRAMING LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF INSTALLATION AND SHALL BE AT 19% MAXIMUM MOISTURE CONTENT (VERIFIED BY INSPECTOR OF RECORD) BEFORE BEING ENCLOSED BY INSULATION, GYPBOARD, OR OTHER SURROUNDING ARCHITECTURAL MATERIALS. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROVIDE LUMBER MEETING THESE CRITERIA.
20. BOLTS ARE NOT TO BE INSTALLED IN LUMBER OVER 19% MOISTURE CONTENT.
21. EDGE NAILING OF STRUCTURAL WALL SHEATHING TO THE SILL PLATE SHALL NOT OCCUR UNTIL ROOF FRAMING AND SHEATHING IS COMPLETE.
22. ALL FASTENERS INTO PRESSURE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED.
23. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
24. GLUED LAMINATED MEMBERS:
    - A. ALL FLOOR BEAMS AND WALL HEADERS SHALL HAVE 3500 FT RADIUS CAMBER, UNO. ALL ROOF BEAMS SHALL HAVE 2000 FT RADIUS CAMBER, UNO.
    - B. TESTING & INSPECTION OF GLUED LAMINATED BEAMS SHALL BE IN ACCORDANCE WITH CBC SECTION 1704.2.5.
    - C. SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION OF GLUED LAMINATED MEMBERS. SHOP DRAWINGS SHALL INDICATE BEAMS AS SIMPLE OR CONTINUOUS.
    - D. APPEARANCE OF MEMBERS SHALL BE FRAMING OR INDUSTRIAL APPEARANCE EXCEPT MEMBERS IN EXPOSED ARCHITECTURAL APPLICATIONS SHALL BE ARCHITECTURAL APPEARANCE, UNO.
    - E. SHADED AREAS BELOW SHALL HAVE A 6" MIN JOINT SPACING IN ADJACENT LAMINATIONS.



SIMPLE SPAN BEAMS — CONTINUOUS & CANTILEVER BEAMS

REINFORCING STEEL:

1. REINFORCING SHALL CONFORM TO ASTM A615 - GRADE 60 UNO.
2. NO REINFORCING BARS ARE TO BE WELDED UNLESS SPECIFICALLY DETAILED IN CONTRACT DOCUMENTS. ALL BARS SO DETAILED TO BE WELDED SHALL BE ASTM A706 BARS.
3. ALL REBAR TO BE WELDED SHALL BE CONTINUOUSLY INSPECTED BY A QUALIFIED TESTING LABORATORY. CONTRACTOR MUST FURNISH TO THE LABORATORY MILL CERTIFICATES SHOWING CHEMICAL ANALYSIS. ALL PREHEATING AND WELDING SHALL BE DONE BY WELDERS CERTIFIED TO WELD REINFORCING BARS IN ACCORDANCE WITH AWS D1.4 STANDARDS (LATEST EDITION).
4. E80xx ELECTRODE SHALL BE USED FOR ALL REBAR WELDING.
5. TACK WELDING TO REBAR IS STRICTLY PROHIBITED.
6. WIRE FABRIC SHALL CONFORM TO ASTM A185. WELDED WIRE FABRIC SHALL BE LAP SPLICED TWO SQUARES MIN EACH DIRECTION.
7. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE OR GROUTING MASONRY. OBTAIN APPROVAL OF ALL AFFECTED TRADES PRIOR TO PLACING CONCRETE OR GROUTING MASONRY.
8. DRILL THROUGH STEEL COLUMNS AND BEAMS TO PASS CONTINUOUS REINFORCING (1"Ø MAX) UNO.
9. CONTRACTOR SHALL PROVIDE AN ALLOWANCE OF 2% OF THE BID FOR ALL REINFORCING STEEL TO BE USED AT THE DISCRETION OF THE STRUCTURAL ENGINEER. UNUSED AMOUNT TO REVERT TO THE OWNER UPON COMPLETION OF THE JOB.

REBAR LAP SCHEDULE:

BAR SIZE	f'c=2500 PSI		f'c=3000 PSI		f'c=3500 PSI		f'c=4000 PSI	
	TOP BARS (IN)	OTHER BARS (IN)	TOP BARS (IN)	OTHER BARS (IN)	TOP BARS (IN)	OTHER BARS (IN)	TOP BARS (IN)	OTHER BARS (IN)
#3	25	19	23	18	21	16	20	15
#4	33	25	30	23	28	22	26	20
#5	41	32	37	29	35	27	33	25
#6	49	36	45	35	42	32	39	30
#7	89	69	81	63	75	58	71	54
#8	102	78	93	72	86	66	81	62
#9	114	88	105	81	97	75	91	70
#10	127	98	116	89	108	83	101	78
#11	140	108	128	98	118	91	111	85

FOOTNOTES:
1. LAP SPLICE LENGTHS ARE FOR GRADE 60 UNCOATED REINFORCING BARS.
2. LAP SPLICE LENGTHS ARE FOR NORMAL WEIGHT CONCRETE. FOR LIGHTWEIGHT AGGREGATE CONCRETE, (WT = 110 PCF) INCREASE LAP SPLICE BY 30%.
3. LAP SPLICE LENGTHS ARE FOR CLASS B LAPS = 1.3 ld.
4. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW THE BARS.
5. ADJUST LAP SPLICE LENGTHS AS FOLLOWS:
   - 5.A. FOR BARS AT BEAMS AND COLUMNS WITH COVER LESS THAN 1 BAR DIAMETER OR WITH CLEAR SPACING LESS THAN 2 BAR DIAMETERS, INCREASE LAP SPLICE BY 50%.
   - 5.B. FOR BARS AT ALL OTHER CONDITIONS WITH COVER LESS THAN 1 BAR DIAMETER OR WITH CLEAR SPACING LESS THAN 3 BAR DIAMETERS, INCREASE LAP SPLICE BY 50%.
6. ALL LAP SPLICES SHALL BE CLASS B, UNO

WMB ARCHITECTS
5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

Standard Comfort Station #1
Roseville, CA

WMB Project No. 20-086

MERIDIAN

REGISTERED PROFESSIONAL ENGINEER — No. S4721 — STRUCTURAL — STATE OF CALIFORNIA
5-3-2021

PUBLISH HISTORY:

Δ	DATE	PURPOSE
	05.13.21	100% SDs
1	08.11.21	PLAN REVIEW 1
2	08.11.21	COORDINATION

CITY OF ROSEVILLE CALIFORNIA
APPROVED FOR CODE COMPLIANCE
BUILDING DIVISION
CONSTRUCTION DOCUMENTS MUST BE ON JOB SITE
By
09/07/2021 10:13:58
2021-2870

Not for Construction
For Council Approval

STRUCTURAL NOTES

S0.2

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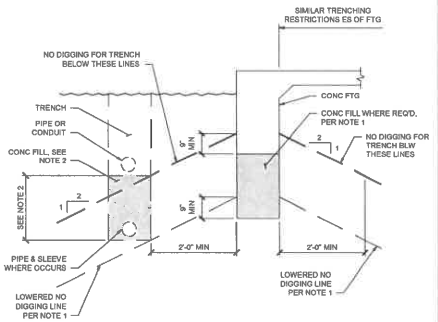
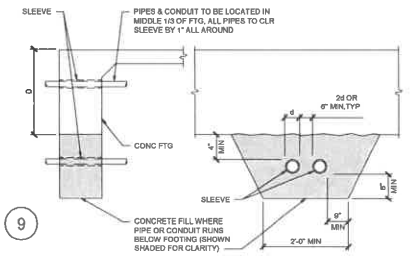


PIPES & CONDUIT PARALLEL TO FOOTING

NOTES:
1. WHERE TRENCH OCCURS BELOW "NO DIGGING LINE" (SHOWN AS HEAVY DASHED LINE), LOWER BOTTOM OF FOOTING WITH CONCRETE FILL TO LOWER NO DIGGING LINE AS REQ'D (SHOWN LT DASHED LINE).
2. IN LIEU OF LOWERING BOTTOM OF FOOTING WHERE TRENCH OCCURS BELOW NO DIGGING LINE, FILL PORTION OF TRENCH BELOW NO DIGGING LINE W/ CONCRETE FILL PRIOR TO EXCAVATING FOOTING. PROVIDE SLEEVE W/ 1" CLR AROUND PIPE ENCASED IN CONCRETE.
3. SEE PIPES PERPENDICULAR TO FOOTING FOR ADDITIONAL NOTES.

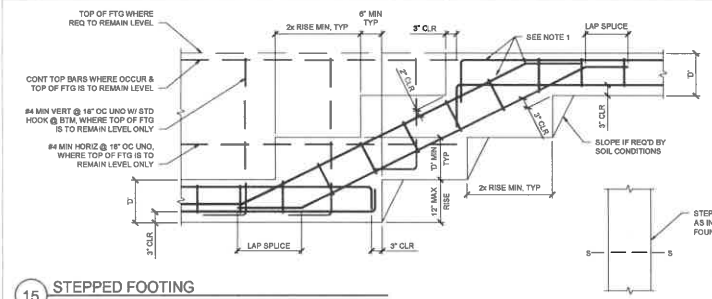
PARALLEL TO FOOTING
14 PIPE & CONDUIT DETAILS
NTS



PIPES & CONDUIT PERPENDICULAR TO FOOTING

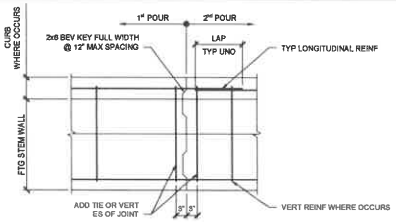
NOTES:
1. CONCRETE FILL SHALL HAVE f'c @ 28 DAYS > 3000 PSI.
2. CONCRETE FILL TO BE SAME WIDTH AS FTG AND FULL WIDTH OF PIPE TRENCH. STEP FTG IF PIPE IS MORE THAN 2'-0" BLW BTM OF FTG.
3. NO PIPE SHALL BE PLACED BLW SPREAD FTGS, TYPICAL.
4. IF PIPE IS IN PLACE PRIOR TO CASTING CONCRETE, WRAP PIPE W/ 1" THICK GLASS WOOL INSULATION IN LIEU OF SLEEVE.
5. PROVIDE 2" CLR MINIMUM, BTWN PIPES OR CONDUIT & REINFORCING.
6. NO PIPES UNDER PRESSURE ALLOWED WITHIN FTG IN LONGITUDINAL DIRECTION.
7. CONDUITS WITHIN FTG SHALL BE LOCATED SUCH THAT VERTICAL RISERS DO NOT CROSS ADJACENT HORIZONTAL CONDUIT. MINIMUM COVER SHALL BE 1 1/2" AND 2d MINIMUM SEPARATION.

PERPENDICULAR TO FOOTING
10 PIPE & CONDUIT DETAILS
NTS



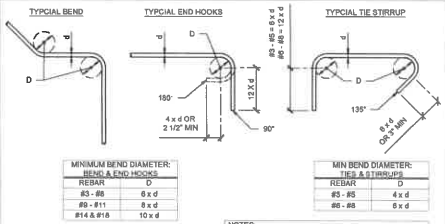
NOTES:
1. REINFORCING TO MATCH SIZE, NUMBER AND SPACING OF FOOTING TOP BARS & TIES.
2. REINFORCING SHOWN DASHED FOR CONDITION WHERE TOP OF FOOTING IS TO REMAIN LEVEL.

15 STEPPED FOOTING
NTS



OPTION:
USE METAL K-LAM IN LIEU OF KEYS FOR FULL DEPTH OF FOUNDATION AT UNEXPOSED FND ONLY

5 FOOTING CONSTRUCTION JOINT
NTS



MINIMUM BEND DIAMETER: BENDS & END HOOKS

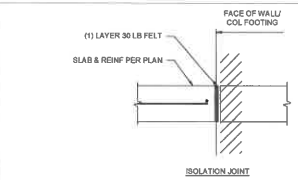
REBAR	D
#3 - #8	6 x d
#9 - #11	8 x d
#14 & #18	10 x d

MIN BEND DIAMETER: TIES & STIRRUPS

REBAR	D
#3 - #5	4 x d
#6 - #8	6 x d

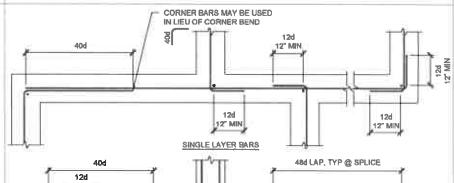
NOTES:
1. D= DIAMETER OF BEND.
2. d= DIAMETER OF REBAR.
3. ALL HOOKS SHALL BE 90° OR 180° STANDARD HOOKS UNLESS OTHERWISE SHOWN OR NOTED.

1 STANDARD REBAR HOOKS AND BENDS
NTS



NOTES:
1. PROVIDE CONSTRUCTION OR CONTROL JOINTS AT MAX SPACING (PER CONSTRUCTION JOINT NOTE IN GENERAL STRUCTURAL NOTES). TO DIVIDE SLAB INTO RECTANGULAR AREAS W/ LONG TO SHORT DIMENSION RATIO NOT TO EXCEED 1 1/2 TO 1. AREAS SHALL NOT HAVE RE-ENTRANT CORNERS.
2. WHERE COLUMNS OCCUR, PROVIDE CONSTRUCTION OR CONTROL JOINTS AT CENTERLINE OF COLUMNS & SUBDIVIDED W/ ADDITIONAL JOINTS PER NOTE 1 AS REQUIRED.

MILD STEEL REINFORCEMENT
7 SLAB JOINTS
NTS



2 TYPICAL CORNER REINFORCING
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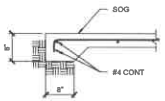
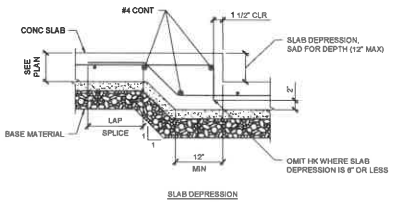
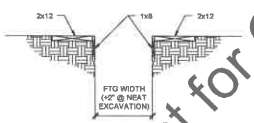


3 EDGE OF SLAB
NTS



SLAB DEPRESSION

RECESSED SLAB
8 DETAIL
NTS



4 TYPICAL FOOTING EXCAVATION
NTS

WMB ARCHITECTS
5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

Standard Comfort Station #1
Roseville, CA

WMB Project No. 20-086

MERIDIAN ENGINEERING, INC

Registered Professional Engineer — Industrial Design — Mechanical — No. 34791 — State of California — 6-8-2021

PUBLISH HISTORY:

	DATE	PURPOSE
1	05.13.21	100% SD
1	08.11.21	PLAN REVIEW 1
2	08.11.21	COORDINATION

CITY OF ROSEVILLE CALIFORNIA
ACCESSIBLE CODE COMPLIANCE
BUILDING DIVISION
CONSTRUCTION DOCUMENTS
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BCD1-3660

TYPICAL DETAILS

S1.1

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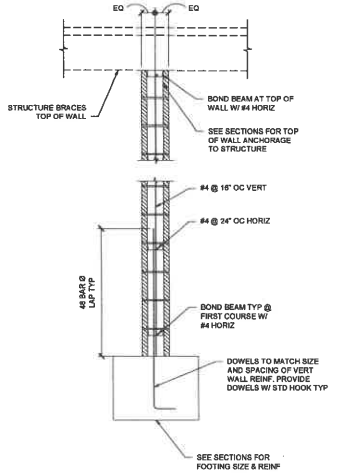
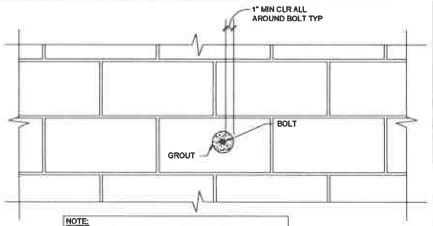


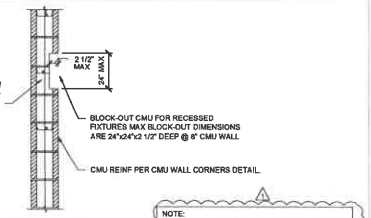
NOTES:
1. MASONRY BLOCKS SHALL BE PLACED IN COMMON BOND UNO.

14 TYPICAL 8" BLOCK WALL REINFORCING
NTS



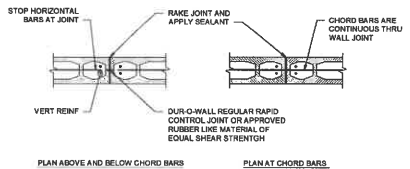
NOTE:
1. BOLT CAST IN MASONRY SHALL BE GROUTED IN PLACE W/ 1" MIN OF GROUT BETWEEN BOLT AND MASONRY.
2. USE TEMPORARY PLYWOOD STOP TO RETAIN GROUT AS REQUIRED.

9 TYPICAL BOLT CAST IN MASONRY
NTS



NOTE:
1. FOR LARGER RECESS DIMENSIONS, PROVIDE REINFORCING AS PER WALL OPENING REINFORCING DETAIL.

5 TYPICAL RECESS IN MASONRY
NTS

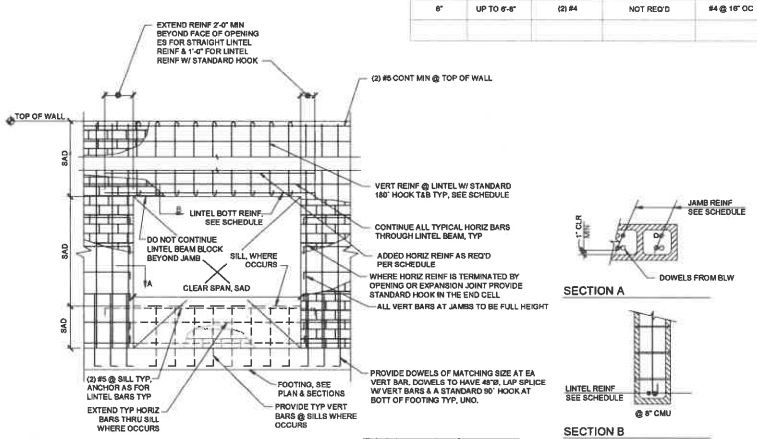


25'-0" OC MAX

1 CMU CONSTRUCTION JOINT
NTS

CMU LINTEL REINFORCING SCHEDULE:

WALL WIDTH	CLEAR SPAN	LINTEL BOTTOM REINFORCING	ADDED HORIZONTAL LINTEL REINFORCING	VERTICAL LINTEL REINFORCING	JAMB REINFORCING EA SIDE OF OPENING
8"	UP TO 6'-8"	(2) #4	NOT REQ'D	#4 @ 16" OC	(1) SETS OF (2) #4 IN JAMB CELL

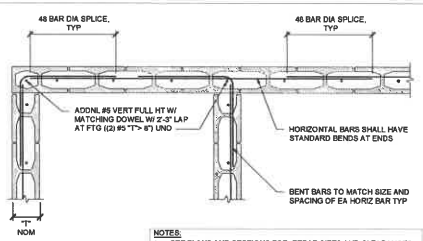


NOTE:
1. FOR TYPICAL WALL REINFORCING SEE TYPICAL 8" BLOCK WALL REINFORCING DETAIL.

SECTION A

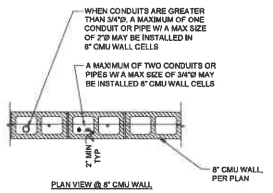
SECTION B

11 WALL OPENING REINFORCING
NTS

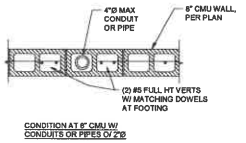


NOTES:
1. SEE PLANS AND SECTIONS FOR REBAR SIZES AND CLEARANCES.
2. SEE PLANS AND SECTIONS FOR MASONRY UNIT SIZES.

2 CMU WALL CORNERS
NTS



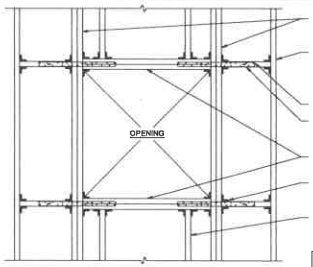
PLAN VIEW @ 8" CMU WALL



CONDITION AT 8" CMU W/ CONDUITS OR PIPES O/ 2"Ø

NOTES:
1. CONDUITS & PIPES SHALL NOT BE PLACED IN CELLS W/ VERTICAL REINFORCING.
2. CONDUITS & PIPES SHALL NOT BE RUN HORIZONTALLY IN WALLS.
3. CONDUITS & PIPES SHALL NOT INTERRUPT HORIZONTAL REINFORCING EXCEPT AS SHOWN ABOVE.
4. ALUMINUM PIPES OR CONDUITS SHALL NOT BE PLACED IN MASONRY WALLS THICKNESS.
5. JUNCTION BOXES W/ MAXIMUM VOLUME OF 32 CUBIC INCHES ARE ACCEPTABLE TO BE INSTALLED IN WALLS.
6. PIPES SHALL NOT BE EMBEDDED IN MASONRY WALLS WHERE:
   6.A. CONTAINING LIQUID GAS, OR VAPORS AT TEMPERATURES GREATER THAN 150° F (65° C)
   6.B. UNDER PRESSURE IN EXCESS OF 55 PSI.
   6.C. CONTAINING WATER OR OTHER LIQUIDS SUBJECTED TO FREEZING.
7. CONDUITS AND PIPES IN MASONRY WALLS SHALL BE SPACED NO CLOSER THAN [illegible] DIAMETERS (OF THE LARGER PIPE OR CONDUIT) [illegible]

4 PIPES & CONDUITS IN MASONRY WALLS
NTS



NEW OPENING IN EXISTING 2x FRAMED ROOF

NOTE:
1. OPENINGS TO BE 4'-0" MAXIMUM.

8 ROOF OPENING
NTS

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5757 Pacific Avenue
Suite 226
Stockton, CA 95207
2000 L Street
Suite 125
Sacramento, CA 95811
T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

Standard Comfort Station #1
Roseville, CA

WMB Project No. 20-086

MERIDIAN

REGISTERED PROFESSIONAL ENGINEER No. 54701 STRUCTURAL STATE OF CALIFORNIA 8-3-2021

PUBLISH HISTORY:

	DATE	PURPOSE
	06.13.21	100% CD'S
1	08.11.21	PLAN REVIEW 1
2	08.11.21	COORDINATION

CITY OF ROSEVILLE CALIFORNIA
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DATE: [illegible]

TYPICAL DETAILS

S1.2

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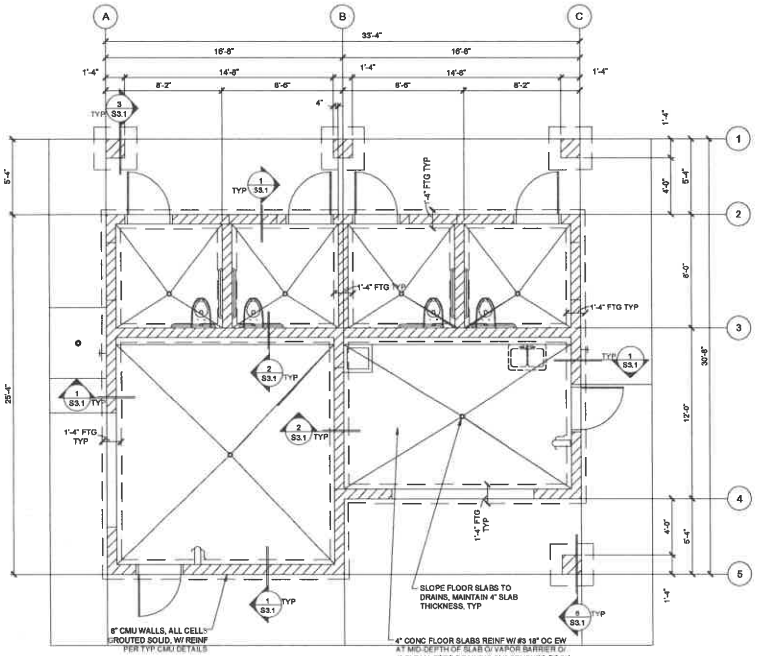
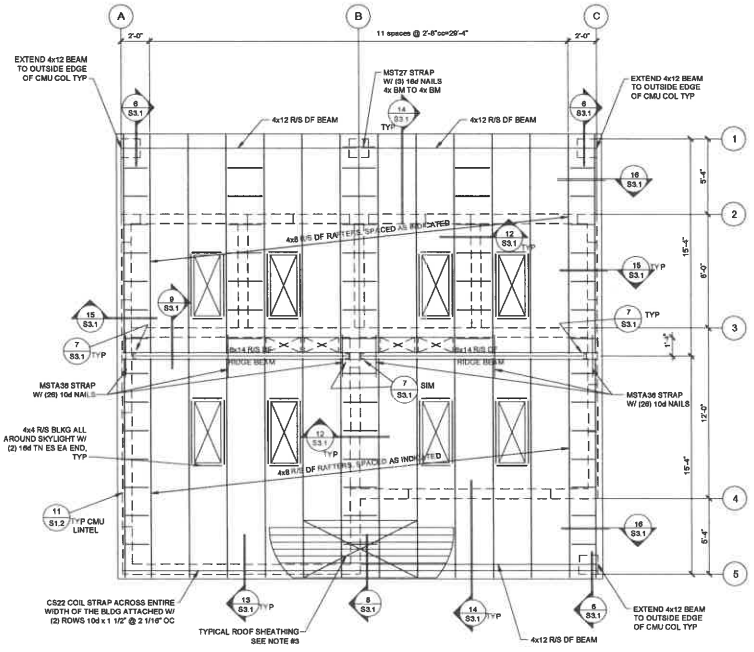


FOUNDATION PLAN

1/4"=1'-0"

Foundation Plan Notes:

1. COORDINATE ALL DIMENSIONS W/ ARCHITECTURAL DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION PRIOR TO PROCEEDING.
2. SEE SHEETS X.1 THRU X.3 SERIES FOR TYPICAL NOTES AND DETAILS.
3. FOR TYPICAL WALL FOOTING CONFIGURATIONS, INCLUDING AND UNDER FOOTINGS, SEE TYPICAL DETAILS ON S1.1.
4. FOR CMU WALL OPENINGS, SEE TYPICAL CMU DETAILS ON S1.2.
5. ALL BOLTS, STRAPS AND OTHER HARDWARE EMBEDDED IN CONCRETE MUST BE IN PLACE PRIOR TO FOUNDATION INSPECTION.



ROOF FRAMING PLAN

1/4"=1'-0"

ROOF FRAMING PLAN NOTES:

1. COORDINATE ALL DIMENSIONS W/ ARCHITECTURAL DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION PRIOR TO PROCEEDING.
2. SEE SHEETS X.1 THRU X.3 SERIES FOR TYPICAL NOTES AND DETAILS. THESE NOTES AND DETAILS APPLY TO ALL CONSTRUCTION UNLESS NOTED OR DETAILED OTHERWISE.
3. ROOF SHALL BE SHEATHED W/ 2x6 T&G R/S DF V-GROOVE LUMBER SHEATHING, ATTACHED TO FRAMING W/ (2) 10d NAILS AT EACH CONTACT. PROVIDE 10d @ 6" OC @ PARALLEL FRAMING. OVER THE LUMBER SHEATHING, 19/32" CD/OSB APA-RATED SHEATHING (SPAN RATING=32/16) SHALL BE NAILED TO 4x6 FRAMING W/ 8d NAILS @ 6" OC AT EDGES AND 12" OC AT FIELD. STAGGER PANELS TYPICAL AS SHOWN. ALL PANELS SHALL HAVE A MINIMUM WIDTH OF 24". ALL "SHINERS" (NAILS NOT FULLY EMBEDDED INTO FRAMING) SHALL BE REMOVED AND REPLACED, TYPICAL.
4. ALL EXPOSED WOOD/TRIM TO HAVE A R/S FACE EXPOSED.

WMB ARCHITECTS

5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

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Roseville, CA

WMB Project No. 20-066

MERIDIAN

No. 54721 REGISTERED PROFESSIONAL ENGINEER STRUCTURAL STATE OF CALIFORNIA
8-3-2021

PUBLISH HISTORY:

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05.13.21	100% CD's	
1	08.11.21	PLAN REVIEW 1
2	08.11.21	COORDINATION

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COMFORT STATION 1
FOUNDATION PLAN & ROOF FRAMING PLAN

S2.1

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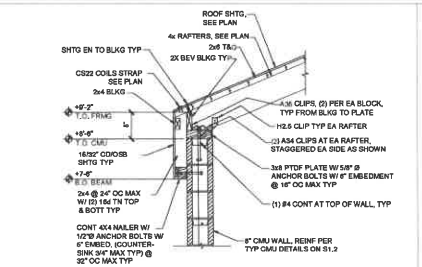

13 DETAIL
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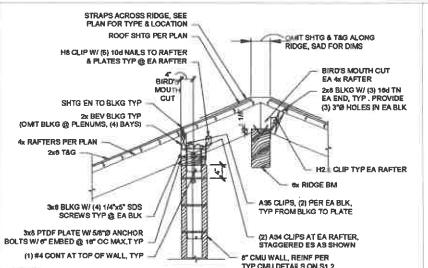

9 DETAIL
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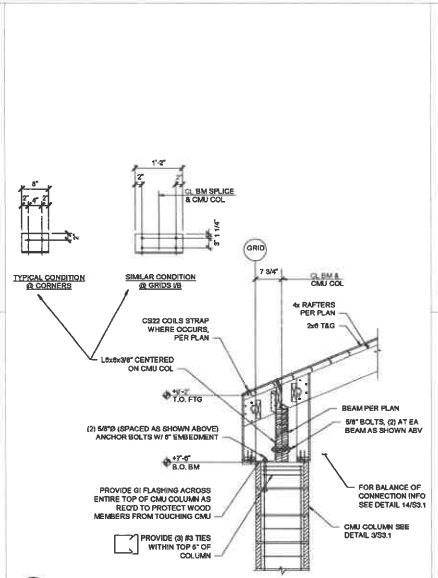

6 DETAIL
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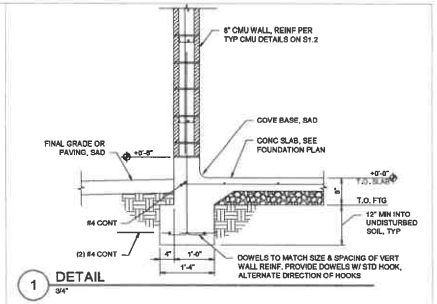
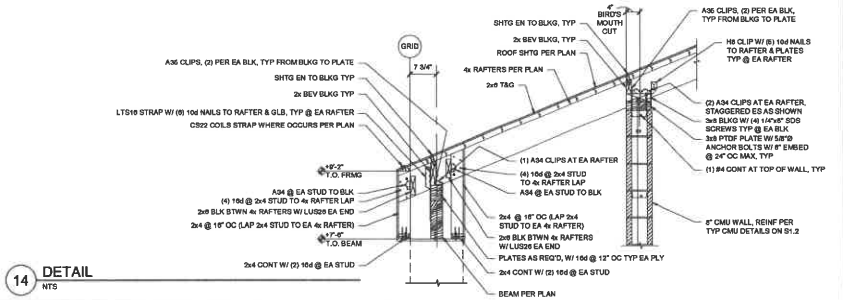


1 DETAIL
3/4"



14 DETAIL
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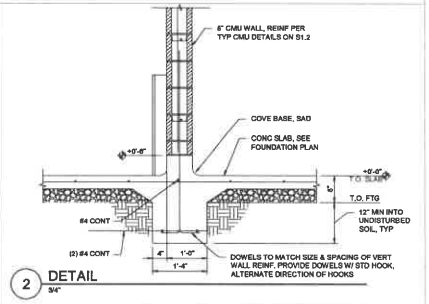
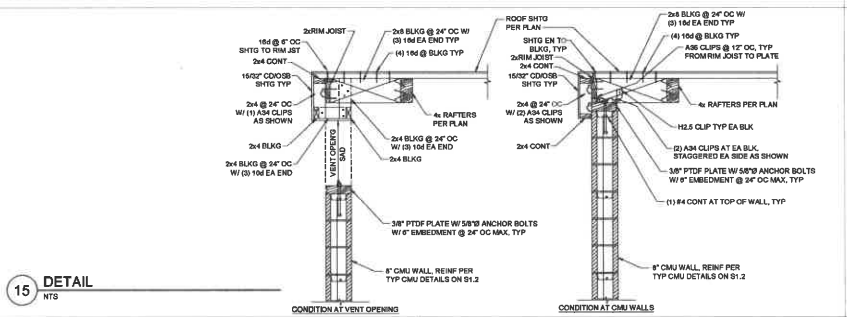


2 DETAIL
3/4"



15 DETAIL
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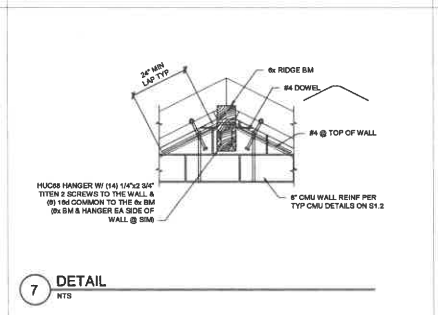
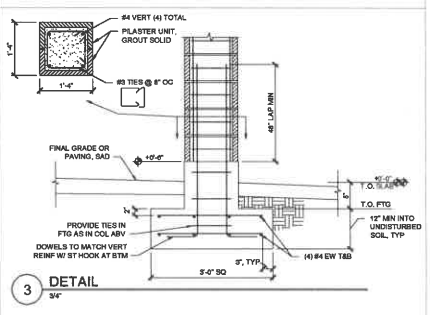
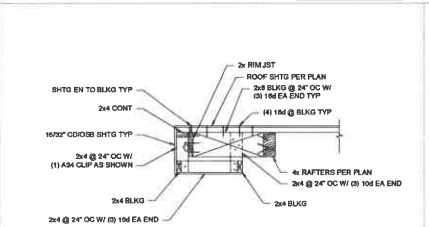


7 DETAIL
NTS



3 DETAIL
3/4"



16 DETAIL
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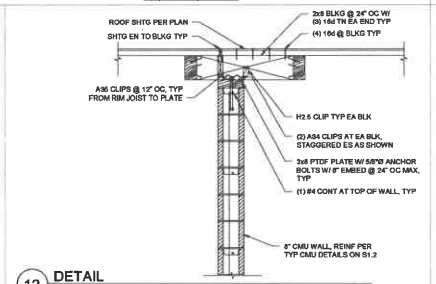

12 DETAIL
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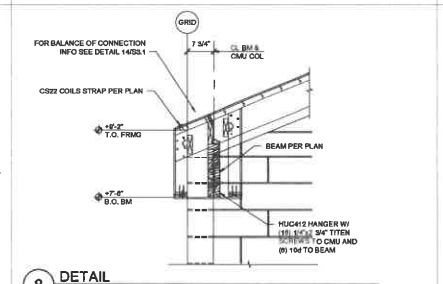

8 DETAIL
NTS

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5757 Pacific Avenue
Suite 226
Stockton, CA 95207
2000 L Street
Suite 125
Sacramento, CA 95811
T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

Standard Comfort Station #1
Roseville, CA

WMB Project No. 20-086

MERIDIAN STRUCTURAL ENGINEERING, INC.

REGISTERED PROFESSIONAL ENGINEER No. S6721 STRUCTURAL STATE OF CALIFORNIA 6-3-2021

PUBLISH HISTORY:

	DATE	PURPOSE
0	05.13.21	100% CD'S
1	08.11.21	PLAN REVIEW 1
2	08.11.21	COORDINATION

CITY OF ROSEVILLE CALIFORNIA
RECEIVED FIRE CODE COMPLIANCE BUILDING DIVISION CONSTRUCTION DOCUMENTS MUST BE ON JOB SITE
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COMFORT STATION 1
STRUCTURAL DETAILS

S3.1

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For Council Approval

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURES RECOMMENDATIONS	CONNECTION W	V	CW	HW
FD-1	FLOOR DRAIN: PVC OR ABS BODY FLANGED WITH ADJUSTABLE 6" ROUND NICKEL HEAD AND HEEL-PROOF GRATE VANDAL-PROOF SCREWS, TRAP PRIMER CONNECTION. ZURN FD2210	2"	1-1/2"	1/2"	-
HB-1	HOSE BIBB: COMPOSITE BOX WITH STAINLESS STEEL DOOR AND FRONT, WITH ANTI-SIPHON VACUUM BREAKER, LOOSE KEY TEE WOODFORD MB35-3/4-K	-	-	-	-
L-1	LAVATORY: BARRIER FREE, 19" x 17" WALL HUNG, ENAMELED CAST IRON, 4" FAUCET CENTERS KOHLER HUDSON K-2661 FAUCET: BARRIER FREE FAUCET WITH 6FP-6 110 VAC/6 VDC ADAPTER, 0.35 GPM (0.20 GAL. PER CYCLE MAX), ADJUST "TIME OUT SETTING" TO 30 SEC. TO PROVIDE 0.175 GAL. PER CYCLE, MCGUIRE 155A OPEN GRID STRAINER DRAIN, 8902 P-TRAP AND 167 STOPS AND SUPPLIES SLOAN SF-2300 0.35 GPM PROVIDE TRUSRO LAV SHIELD PROTECTIVE COVER #2018-KO-H	1-1/2"	1-1/2"	1/2"	-
MS-1	MOP SINK: 24" x 24", FLOOR MOUNT, FLORESTONE TERRAZZO MODEL 5 FAUCET: BARRIER FREE, WALL MOUNT, PAIL, HOOK, LEVER HANDLES, KOHLER K-8907	2"	1-1/2"	1/2"	1/2"
TP-1	TRAP PRIMER: PPP MODEL P-1 WITH 1/2" INLET PROVIDE WITH DU-4 DISTRIBUTION UNIT WHERE MORE THAN ONE FLOOR DRAIN IS CONNECTED TO TRAP PRIMER. FOR UP TO FOUR DRAIN APPLICATION	-	-	1/2"	-
WC-1	WATER CLOSET: BARRIER FREE, ELONGATED BOWL, WALL MOUNT, SIPHON JET, 1-1/2" TOP SPUD, 1.28 GPF AMERICAN STANDARD 2633.001 PRESSALIT ROYAL 0336075.020 ELONGATED OPEN FRONT SEAT MANUAL FLUSH VALVE: AMERICAN STANDARD 1.28 GPF J.R SMITH 0410 CARRIER, ADJUST CARRIER TO SET RIM OF BOWL AT 16-1/8" ABOVE FINISHED FLOOR	4"	2"	1-1/2"	-

WATER HEATER SCHEDULE

SYMBOL	DESCRIPTION	ELECTRICAL
WH-1	WATER HEATER: ELECTRIC, 20 GAL., 23.1 POUNDS, 21 GPH AT 90 RISE, DRAIN VALVE, T & P VALVE. STATE ENG 20 SOLS	6000 WATTS 208/240
ET-1	EXPANSION TANK: 2 GAL. CAPACITY, WELDED STEEL CONSTRUCTION AMTROL ST-5C	3 0

WATER AND WASTE SERVICE CALCULATIONS

JOB NAME: STANDARD COMFORT STATION # 1

FIXTURE TYPE	NO	WASTE FU	WASTE TOTAL	COLD WATER FU	COLD WATER TOTAL	HOT WATER FU	HOT WATER TOTAL	TOTAL WATER FU
HOSE BIBB	3	0	0	2.5	7.5	0	0	7.5
LAVATORY (SINGLE)	4	1	4	1	4	1	4	5.3333333
SERVICE SINK	1	3	3	3	3	3	3	4
FLOOR DRAIN	6	2	12	0	0	0	0	0
SINK, 2" TRAP (FUTURE)	1	2	2	1.5	1.5	1.5	1.5	2
WATER CLOSET, 1.28 FV	4	4	16	5	20	0	0	20
TOTAL FU			37.0		36.0		8.5	39.0

EQUIVALENT COLD WATER FLOW RATE (GPM):	45
ADDITIONAL DEMAND LOAD (GPM):	0
PRESSURE AVAILABLE AT MAIN (PSI):	40
MINIMUM REQUIRED FIXTURE PRESSURE (PSI):	20
ELEVATION RISE (FT)	4
METER LOSS (PSI):	6
BACKFLOW PREVENTER LOSS (PSI):	10
ADDITIONAL LOSSES (PSI):	0
EQUIVALENT PIPE LENGTH FROM METER TO MOST REMOTE FIXTURE (FT):	60
FRICTION LOSS PRESSURE AVAILABLE (PSI):	2.26
MAXIMUM ALLOWABLE FRICTION LOSS (PSI/100 FT).	4.53
WATER FLOW VELOCITY (FPS),	4.34
CALCULATED FRICTION HEAD LOSS (PSI/100 FT):	2.51
MINIMUM REQUIRED 'WATER' PIPE SIZE (INCHES):	2
MINIMUM REQUIRED 'WASTE' PIPE SIZE (INCHES):	4
(SANITARY DRAINAGE CALCULATIONS PER THE 2019 CPC - TABLE 702.1 AND 703.2)	
(WATER CALCULATIONS PER THE 2019 CPC - APPENDIX 'A')	

WATER PIPE SIZING CHART

PIPE SIZES CALCULATED BASED ON 2019 CPC APPENDIX A

NOMINAL DIAMETER	INTERNAL DIAMETER	CW MAX FLOW GPM	CW MAX FLOW FPS	CW FIXTURE UNIT VALUES FLUSH TANK	CW FIXTURE UNIT VALUES FLUSH VALVE	HW MAX FLOW GPM	HW MAX FLOW FPS	HWFU HOT WATER
3/8"	0.44	1.2	2.8	0	0	1.2	2.8	0
1/2"	0.545	2.2	3.9	1	0	2.2	3.9	1
3/4"	0.785	6.7	3.8	6	0	6.7	3.8	6
1"	1.029	11.5	4.6	15	0	11.5	4.6	15
1-1/4"	1.265	20.0	5.1	30	0	18.6	5.0	28
1-1/2"	1.505	31.6	5.7	56	14	27.7	5.0	48
2"	1.985	65.5	6.8	200	92	48.2	5.0	119

PLUMBING SYMBOL LIST

NOTE: THIS IS A STANDARD SYMBOL LIST AND NOT ALL ITEMS LISTED MAY BE USED.

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
BFF	BELOW FINISHED FLOOR
CO	CLEANOUT
CW	COLD WATER
DN	DOWN
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF	FINISHED FLOOR
HB	HOSE BIBB
IE	BELOW
SOV	SHUT OFF VALVE
SS	VENT THRU ROOF
WCO	WALL CLEANOUT
VTR	VENT THRU ROOF

PIPE FITTINGS

COTG	CLEANOUT TO GRADE
CO	CLEANOUT
FD	FLOOR DRAIN
HB	HOSE BIBB
	PIPE DROP
	PIPE RISE
	TEE DOWN ON PIPE
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT

GENERAL

	CONTINUATION
	DEMOLISH
	PIPE BELOW GRADE

VALVES

	SHUTOFF VALVE, GENERAL

PIPING SYSTEMS

	COLD WATER PIPING
	SANITARY VENT
	SANITARY WASTE OR SOIL PIPING ABOVE GRADE OR FINISHED FLOOR
	SANITARY WASTE OR SOIL PIPING BELOW GRADE OR FINISHED FLOOR

PLUMBING GENERAL NOTES

1. COORDINATE INSTALLATION OF PIPING BELOW AND ABOVE GRADE WITH STRUCTURAL COMPONENTS AND OTHER SYSTEM INSTALLATION.
2. ALL PENETRATIONS THRU FLOORS AND WALLS BELOW GRADE TO BE SEALED AT SLEEVES WITH MECHANICAL SEALING SYSTEM, "LINK SEAL OR APPROVED.
3. COORDINATE ALL FIXTURES, EQUIPMENT, PIPE ROUGH-IN / CONNECTION LOCATION AND DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS.
4. VTR's SHALL BE A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKES.
5. LOCATE ALL VALVES FOR SERVICE ACCESSIBILITY.
6. PIPING TO BE ROUTED IN COORDINATION WITH LIGHTING, DUCTWORK AND OTHER DISCIPLINES.
7. PROVIDE CLEANOUTS PER 2019 CPC 707.0 AS REQUIRED. PROVIDE COVER PLATES FOR VISIBLE WALL CLEANOUTS.
8. PROVIDE PIPING, EQUIPMENT, AND MATERIALS IN ACCORDANCE WITH APPLICABLE PLUMBING CODE REGULATIONS AND STANDARDS, AUTHORITIES HAVING JURISDICTION, AND AS OTHER WISE RECOMMENDED OR DIRECTED BY MANUFACTURERS.
9. INSULATE LAVATORIES WITH HOT WATER SUPPLY WITH APPROVED UNDERSINK PROTECTIVE PIPE COVERS.
10. WHERE STATIC WATER PRESSURE IN THE SUPPLY PIPING IS EXCEEDING 80 PSI, AND APPROVED-TYPE PRESSURE REGULATOR PRECEDED BY AN ADEQUATE STRAINER SHALL BE INSTALLED AND THE STATIC PRESSURE REDUCED TO 80 PSI OR LESS.
11. FOAM CORE PVC PIPE IS NOT ACCEPTABLE ON THIS PROJECT.
12. WATER HAMMER ARRESTORS SHALL BE ANSI A112.26.1; STAINLESS STEEL CONSTRUCTION, BELLOWS TYPE SIZED IN ACCORDANCE WITH PDI WH-201, PRECHARGED SUITABLE FOR OPERATION IN TEMPERATURE RANGE -100 TO 300 DEGREES F AND MAXIMUM 150 PSI WORKING PRESSURE, INSTALL WATER HAMMER ARRESTORS COMPLETE WITH ACCESSIBLE ISOLATION VALVE ON HOT AND COLD WATER SUPPLY PIPING TO EACH FIXTURE OR GROUP OF FIXTURES.
13. ALL HOT WATER PIPING SHALL HAVE A 1 INCH MINIMUM FOAM INSULATION.

PLUMBING PIPING MATERIALS

POTABLE WATER	TYPE K (BELOW GROUND) COPPER WITH BRAISED JOINTS TYPE L (ABOVE GROUND) COPPER WITH WROUGHT-COPPER FITTINGS
DRAIN, WASTE AND VENT	NO HUB CAST IRON SOIL PIPE AND STAINLESS STEEL COUPLINGS

SHEET INDEX

P1	PLUMBING COVER SHEET
P2	PLUMBING FLOOR PLANS

WMB ARCHITECTS

5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

Standard Comfort Station #1
Roseville, CA

WMB Project No. 20-086

CAPITAL ENGINEERING CONSULTANTS, INC.
RANCHO CORDOVA, CALIFORNIA
EB/KS — DESIGNED FROM
21011.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER — KEVIN D. STITZER — 21011 — E-PIPE 1 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 8/10/21

PUBLISH HISTORY:

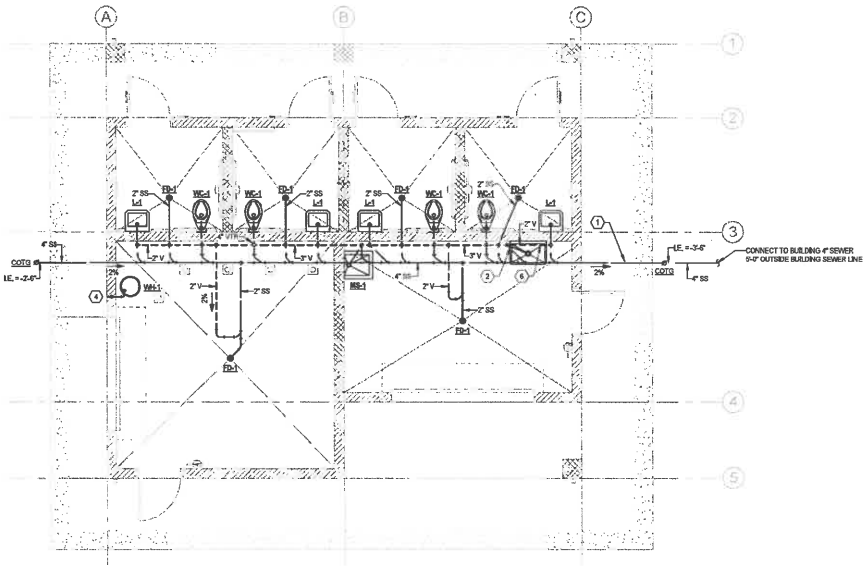
⚠	DATE	PURPOSE
	05.13.21	100% CD
1	08.11.21	PLAN REVIEW
2	08.13.21	CO CORRECTION

ROSEVILLE CALIFORNIA
REVIEWED FOR CONFORMANCE WITH BUILDING CODES CONSTRUCTION DOCUMENTS MUST BE ON JOB SITE
APPROVED 10-13-21

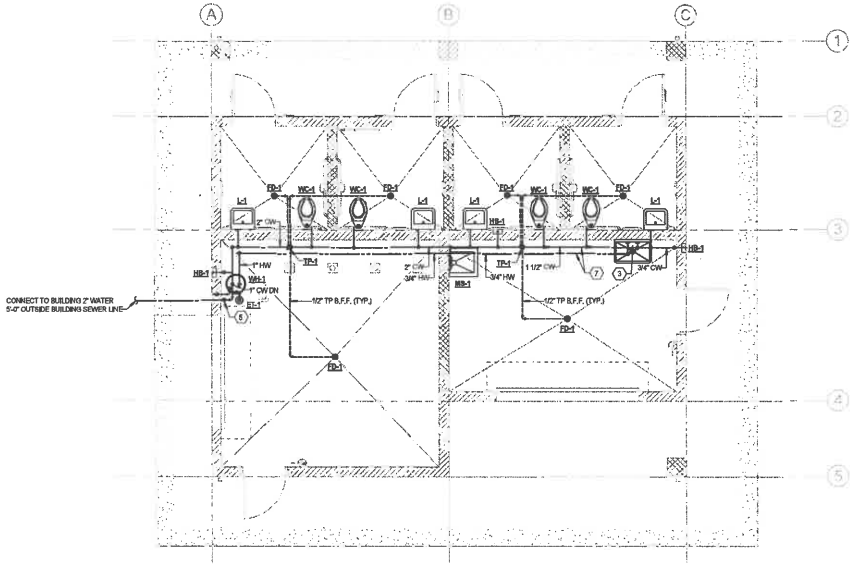
PLUMBING COVER SHEET

P1

Not for Construction
For Council Approval



1 P2 **FLOOR PLAN**
SCALE: 1/4" = 1'-0"



2 P2 **FLOOR PLAN**
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

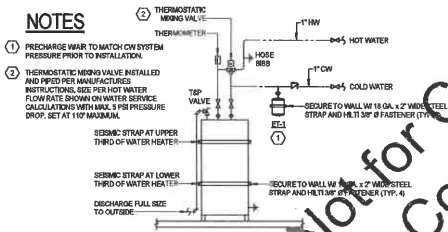
A. ALL UNDERGROUND SANITARY SEWER PIPING TO BE SLOPED AT 2%.

SHEET KEYNOTES

1. CONTRACTOR SHALL PROVIDE RECORDED TV SEWER LINE INSPECTION OF NEWLY INSTALLED BUILDING SERVICE BACK TO CONNECTION WITH SITE UTILITY. PROVIDE DIGITALLY RECORDED INSPECTION TO CITY FOR RECORD.
2. 2 INCH CAPPED SANITARY SEWER FOR FUTURE SINK.
3. 1/2 INCH CAPPED HOT AND COLD WATER STUBS FOR FUTURE SINK.
4. ROUTE 3/4 INCH TEMPERATURE AND RELIEF PIPING TO OUTSIDE. MINIMUM 6 INCHES ABOVE GRADE.
5. 2 INCH COLD WATER RISER WITH SHUT-OFF VALVE.
6. WASTE AND VENT PIPING FOR RESTROOMS TO BE LOCATED ON STORAGE ROOM SIDE.
7. HOT AND COLD WATER PIPING FOR RESTROOMS TO BE LOCATED ON STORAGE ROOM SIDE.

NOTES

1. PRECHARGE WAIR TO MATCH CW SYSTEM PRESSURE PRIOR TO INSTALLATION.
2. THERMOSTATIC MIXING VALVE INSTALLED AND PIPED PER MANUFACTURES INSTRUCTIONS, SIZE PER HOT WATER FLOW RATE SHOWN ON WATER SERVICE CALCULATIONS WITH MAX. 5 PSI PRESSURE DROP. SET AT 110° MAXIMUM.



3 P2 **ELECTRIC WATER HEATER DETAIL**
SCALE: NONE

WMB ARCHITECTS
5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

Standard Comfort Station #1
Roseville, CA

WMB Project No. 20-086

CAPITAL ENGINEERING CONSULTANTS, INC.
RANCHO CORDOVA, CALIFORNIA
EB/KS — PRE-DESIGN TEAM
21011.00 — PROJECT NO.

REGISTERED PROFESSIONAL ENGINEER — MARK D. STEVENS — No. M 13606 — EXPIRES 6/30/23 — MECHANICAL — STATE OF CALIFORNIA

DATE SIGNED: 8/10/21

PUBLISH HISTORY:

	DATE	PURPOSE
1	08.11.21	PLAN REVIEW
2	08.18.21	CC SUBMISSION

ROSEVILLE — REVIEWED FOR CODE COMPLIANCE — BUILDING DIVISION — CONSTRUCTION DOCUMENTS — PERMIT NO ON JOB SITE — BY — DATE: 09.17.19 — SET: CCP

PLUMBING FLOOR PLANS

P2

Not for Construction
For Council Approval

SOME OF THESE SYMBOLS SHOWN MAY NOT BE USED ON THIS PROJECT

SYMBOLS LIST

POWER DISTRIBUTION

- PANELBOARD, 120/208Y, SURFACE MOUNTED ON WALL.
- PANELBOARD, 120/208Y, FLUSH MOUNTED IN WALL.
- DRY-TYPE STEP-DOWN TRANSFORMER, FLOOR MOUNTED 480-120/208Y 3Ø, UON. DOUBLE LINE INDICATES FRONT FACE OF TRANSFORMER.
- ELECTRIC MOTOR, NIEC. MAKE POWER CONNECTIONS ONLY AS NOTED ON PLANS.

  INDOOR EXHAUST FAN MOTOR, SINGLE PHASE. MAKE POWER CONNECTIONS TO INCLUDE JUNCTION BOX MOUNTED MANUAL MOTOR STARTER AND DISCONNECT ADJACENT TO FAN WITH 2 #12 CONDUCTORS PLUS GROUND IN 1/2" FLEXIBLE CONDUIT BETWEEN STARTER AND MOTOR.
- PULLBOX OR HANDHOLE, SIZE AND TYPE AS NOTED ON PLANS.
- SAFETY DISCONNECT SWITCH, 3 POLE, UON. ADJACENT NUMBER INDICATES FUSE SIZE WHEN APPLICABLE. LABELING CONVENTION AS FOLLOWS:

A:	30A, NON-FUSED	AF:	30A, FUSED
B:	60A, NON-FUSED	BF:	60A, FUSED
C:	100A, NON-FUSED	CF:	100A, FUSED
D:	200A, NON-FUSED	DF:	200A, FUSED
E:	400A, NON-FUSED	EF:	400A, FUSED
F:	600A, NON-FUSED	FF:	600A, FUSED
G:	800A, NON-FUSED	GF:	800A, FUSED

- MAGNETIC MOTOR STARTER. ADJACENT NUMBER INDICATES NEMA SIZE OF STARTER.
- COMBINATION MAGNETIC MOTOR STARTER WITH OVERCURRENT PROTECTION DISCONNECT. ADJACENT NUMBER INDICATES NEMA SIZE OF STARTER.
- PACKAGE MOTOR CONTROLLER OR STARTER FURNISHED AND INSTALLED UNDER ANOTHER DIVISION WITH EQUIPMENT CONTROLLED. PROVIDE SINGLE-POINT POWER SERVICE CONNECTION UNDER THIS DIVISION AS NOTED ON PLANS.
- GROUP MOUNTED MOLDED CASE CIRCUIT BREAKER.
- UTILITY METER, MOUNTED IN UTILITY METER SECTION OF SWITCHGEAR.

RACEWAYS

- CONDUIT RUN EXPOSED ON WALL OR CEILING.
- CONDUIT RUN CONCEALED IN SLAB, UNDER SLAB OR UNDERGROUND.
- CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
- CONDUIT HOMERUN. CONTINUOUS RUN TO PANEL OR EQUIPMENT CABINET, HOMERUN CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT TURNED UP. CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT TURNED DOWN. CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT CAPPED OR STUBBED WITH INSULATED BUSHINGS. CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT SLEEVE, WITH INSULATING BUSHINGS.
- FLEXIBLE METALLIC CONDUIT, EQUIPMENT CONNECTION.
- CROSSMARKS ON BRANCH CIRCUIT CONDUIT RUNS INDICATE THE QUANTITY OF CONDUCTORS AS FOLLOWS (GROUND CONDUCTORS ARE NOT NOTED, BUT SHOULD BE INCLUDED IN EVERY CONDUIT WITH POWER CONDUCTORS):

  1. NO CROSSMARKS INDICATES TWO #12 AWG CONDUCTORS, UON.
  2. THREE TO SIX CROSSMARKS INDICATES THE QUANTITY OF #12 AWG CONDUCTORS, UON.
  3. SEVEN OR MORE CROSSMARKS INDICATES THE QUANTITY OF #10 AWG CONDUCTORS, UON.

WIRING DEVICES

- JUNCTION BOX, WALL MOUNTED, +18" UON.
- JUNCTION BOX, SURFACE OR PENDANT MOUNTED TO STRUCTURE IN ACCESSIBLE CEILING SPACE.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON. ADJACENT LETTERING DENOTED BELOW APPLY TO ALL RECEPTACLE DEVICES WHEN SHOWN ON DRAWINGS.

  A: ARC FAULT CURRENT INTERRUPTER (AFCI)
  G: GROUND FAULT CURRENT INTERRUPTER (GFCI)
  IG: ISOLATED GROUND
  U: INTEGRAL USB PORTS
  WP: WEATHER-RESISTANT, GROUND FAULT CURRENT INTERRUPTER (GFCI) WITH WEATHERPROOF "IN USE" COVER
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED OVER COUNTER, 6" ABOVE BACK SPLASH UON, BUT NO HIGHER THAN ADA REQUIREMENTS.
- S^{T} SINGLE-POLE, MANUAL DISCONNECT SWITCH WITH THERMAL OVERLOAD ELEMENT, MOUNTED ADJACENT TO MOTOR.
- S^{MS} SINGLE-POLE, FRACTIONAL HORESPOWER, MOTOR STARTER/DISCONNECT SWITCH, MOUNTED ADJACENT TO MOTOR.
- S^{F} SWITCH FURNISHED UNDER ANOTHER DIVISION, BUT INSTALLED AND WIRED UNDER THIS DIVISION, WALL MOUNTED, +42" UON.
- LINE-VOLTAGE THERMOSTAT, NIEC, WALL MOUNTED +48" UON. INSTALLED AND WIRED BY ELECTRICAL.
- CONTROL STATION, WALL MOUNTED, +42" UON.

LIGHTING

- LUMINAIRE, RECESSED IN CEILING.
- LUMINAIRE, SURFACE OR PENDANT MOUNTED.
- LUMINAIRE, WALL MOUNTED.
- STRIP LUMINAIRE, SURFACE OR PENDANT MOUNTED.
- ROUND DOWNLIGHT LUMINAIRE, RECESSED IN CEILING.
- SQUARE DOWNLIGHT LUMINAIRE, RECESSED IN CEILING.
- DOWNLIGHT/INDUSTRIAL LUMINAIRE, SURFACE OR PENDANT MOUNTED.
- SCONCE LUMINAIRE, WALL MOUNTED.
- EMERGENCY SELF-POWERED BATTERY PACK WITH LUMINAIRE HEADS AS NOTED ON PLANS OR IN LUMINAIRE SCHEDULE.
- HALF SHADING OF ANY LUMINAIRE INDICATES EMERGENCY/EGRESS LIGHTING.
- SINGLE-HEAD AREA LUMINAIRE WITH BRACKET ARM AND POLE, MOUNTED TO CONCRETE BASE.
- TWO-HEAD AREA LUMINAIRE WITH BRACKET ARMS AND POLE, MOUNTED TO CONCRETE BASE.
- SINGLE-HEAD AREA POST-TOP LUMINAIRE WITH POLE, MOUNTED TO CONCRETE BASE.
- AREA LUMINAIRE, SURFACE OR RECESSED MOUNTED TO WALL.
- LUMINAIRE BOLLARD, MOUNTED TO CONCRETE BASE.

LINE VOLTAGE LIGHTING CONTROL

- S SINGLE-POLE, SINGLE-THROW SWITCH, WALL MOUNTED, +42" UON.
- S^{K} SINGLE-POLE, SINGLE-THROW SWITCH, KEY-OPERATED, WALL MOUNTED, +42" UON.
- S^{D} WALL BOX DIMMER SWITCH. +42" UON. SIZED PER CONNECTED LOAD ON PLANS AND FURNISHED FOR LAMP SOURCE SERVED. PROVIDED FOR DERATING WHEN INSTALLED GANGED LOCATIONS.
- S^{TC} SINGLE-POLE, TIMER CONTROLLED SWITCH, WALL MOUNTED, +42" UON.

ABBREVIATIONS

A	AMPERES	MTS	MANUAL TRANSFER SWITCH
AFF	ABOVE FINISHED FLOOR	(N)	NEW
AIC	ASYMMETRIC INTERRUPTING CURRENT	NC	NORMALLY CLOSED
AL	ALUMINUM	NF	NON-FUSED
BAS	BUILDING AUTOMATION SYSTEM	NIEC	NOT IN ELECTRICAL CONTRACT
C	CONDUIT	NTS	NOT TO SCALE
CEC	CALIFORNIA ELECTRICAL CODE	OC	ON CENTER
CU	COPPER	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
DF	DRINKING FOUNTAIN	PNL	PANEL
(E)	EXISTING TO REMAIN	PVC	POLYVINYL CHLORIDE
EMT	ELECTRICAL METALLIC TUBING	SAD	SEE ARCHITECTURAL DRAWINGS
EWH	ELECTRIC WATER HEATER	TC	TIME CLOCK
F	FUSED	TP	TWISTED-PAIR
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FLA	FULL LOAD AMPERES	UON	UNLESS OTHERWISE NOTED
FMC	FLEXIBLE METAL CONDUIT	V	VOLTS
G	GROUND	VA	VOLTS-AMPS
GB	GROUND BUS	WAP	WIRELESS ACCESS POINT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHERPROOF
GND	GROUND	1Ø	1-PHASE
GRC	GALVANIZED RIGID CONDUIT	3Ø	3-PHASE
LCP	LIGHTING CONTROL PANEL	1P	1-POLE
MBGB	MAIN BUILDING GROUND BUS	2P	2-POLE
MCB	MAIN CIRCUIT BREAKER	3P	3-POLE
MLO	MAIN LUGS ONLY	3W	3-WIRE
MT	EMPTY	4W	4-WIRE

DIGITAL LIGHTING CONTROLS

- D SINGLE ZONE DIMMER SWITCH WITH ON/OFF/DIM CAPABILITIES, WALL MOUNTED, +42" UON.
- S SINGLE ZONE SWITCH WITH ON/OFF CAPABILITIES, WALL MOUNTED, +42" UON.
- SCS SCENE OR MULTI-ZONE CONTROLLER WITH ON/OFF/DIM CAPABILITIES ZONE, WALL MOUNTED, +42" UON.
- DS DAYLIGHT HARVESTING SENSOR, CEILING MOUNTED.
- M OCCUPANCY SENSOR, CEILING MOUNTED FOR AREA COVERAGE.
- PLC PLUG LOAD CONTROLLER. UL LISTED FOR CONTROLLING RECEPTACLES. 20A RATED.
- M LIGHTING CONTROL OCCUPANCY SENSOR WITH DUAL LEVEL SWITCHING, WALL MOUNTED, +42" UON.
- M LIGHTING CONTROL OCCUPANCY SENSOR WITH SINGLE LEVEL SWITCHING, WALL MOUNTED, +42" UON.

CONVENTIONS

- 1 NUMBERED SHEET NOTE, APPLIES TO DRAWING CONTAINING NOTES ONLY.
- (NAME) EQUIPMENT IDENTIFICATION TAG: ITEM FURNISHED AND INSTALLED UNDER ANOTHER SECTION AND WIRED UNDER THIS SECTION.
- 1 / E-601 DETAIL REFERENCE:
  - DETAIL DESIGNATION
  - SHEET NUMBER
- 2 - D3 FIXTURE IDENTIFICATION TAG:
  - FIXTURE TYPE
  - QUANTITY

ELECTRICAL SHEET INDEX

SHEET NO.	SHEET NAME	2026.03.01 CONSTRUCTION DOCUMENTS	2021.04.01 SUBMITTAL 04
E1	SYMBOLS AND PROJECT NOTES		
E2	POWER AND LIGHTING PLAN		
E3	TITLE 24 COMPLIANCE FORMS		
E4	TITLE 24 COMPLIANCE FORMS		

#	Note
1	THERE SHALL BE A MINIMUM OF 24" OF COVER OVER UNDERGROUND CONDUITS, UON. INCLUDE A MINIMUM 12" SEPARATION BETWEEN ALL LOW VOLTAGE AND LINE VOLTAGE RACEWAYS. INSTALL A WARNING/MARKER TAPE 12 INCHES OVER THE CONDUIT.
2	CONTRACTOR SHALL SIZE ALL INDOOR AND EXTERIOR JUNCTION/PULLBOXES PER THE MINIMUM CODE REQUIREMENTS OF CEC ARTICLE 314, WHEN NOT INDICATED ON THE PLANS.
3	MINIMUM SIZE CONDUIT USED ON THE SITE SHALL BE 1.0"C, WITH MINIMUM #10 CONDUCTORS, UON.
4	PROVIDE INDIVIDUAL GFCI RECEPTACLES AT EACH LOCATION SHOWN, DO NOT USE FEED-THRU GFCI TYPE RECEPTACLES. LOCATE RECEPTACLE AT END OF A BRANCH CIRCUIT WIRE.
5	WHERE RECEPTACLES ARE LOCATED OUTSIDE OR IN WET/DAMP LOCATIONS PROVIDE WEATHER RESISTANT TYPE, UON.
6	CONDUIT SIZE SHALL BE 0.75 MINIMUM, U.O.N.
7	ALL CONDUCTORS ON THIS PROJECT SHALL BE COPPER.
8	FEEDER AND BRANCH CIRCUIT HOMERUNS SHALL BE INSTALLED IN CONDUIT. MC TYPE CABLE SHALL NOT BE USED FOR ANY HOMERUNS ON THIS PROJECT. MC CABLE SHALL NOT BE EXPOSED.
9	INSTALL AND CONNECT A CODE SIZED INSULATED OR BARE COPPER GROUNDING CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDERS.
10	ALL DEVICES SHALL HAVE TYPE ON TAPE LABELS INDICATING THE PANELBOARD AND CIRCUIT SERVING EACH DEVICE. TYPICAL OF ALL DEVICES INCLUDED ON THIS PROJECT.
11	PROVIDE INSULATING BUSHINGS OR INSULATED THROAT ON THE ENDS OF ALL EMPTY CONDUIT SLEEVES AND INSTALL A POLYETHYLENE PULLING ROPE.
12	WHERE CIRCUITS ARE SHOWN ON THE DRAWINGS WITH HOMERUNS THAT SHARE NEUTRAL CONDUCTORS THE CONTRACTOR SHALL PROVIDE HANDLE TIES BETWEEN ALL BRANCH CIRCUIT BREAKER LOADS WHICH SHARE A NEUTRAL.
13	PROVIDE DEDICATED CONDUIT/PATHWAYS FOR ALL 0-10v LIGHTING CONTROL SIGNALS SEPARATE FROM ALL LINE VOLTAGE RACEWAY.
14	ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHER-PROTECTED AND LISTED FOR EXTERIOR USE.
15	PROVIDE TYPE WRITTEN PANEL SCHEDULES UPDATED TO INCLUDE ALL FIELD MODIFICATIONS AND SCOPE ITEMS ASSOCIATED WITH THIS PROJECT.
16	PROVIDE ENGRAVED NAMEPLATES FOR ELECTRICAL BOARDS, DISCONNECTS, AND SWITCHGEAR.
17	ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE (CEC).
18	CONTRACTOR IS RESPONSIBLE TO SUBMIT REVISED LAYOUT OF EQUIPMENT IN ELECTRICAL SPACES FOR WRITTEN APPROVAL BY ENGINEER IF PROPOSED INSTALLATION LAYOUT DIFFERS FROM CONSTRUCTION DOCUMENTS. SUBMISSION MUST BE APPROVED PRIOR TO RELEASE OF ORDER FOR EQUIPMENT AND PRIOR TO INSTALLATION.
19	REQUIRED ELECTRICAL EQUIPMENT WORKING SPACE DEPTH SHALL NOT BE LESS THAN THAT INDICATED IN CEC TABLE 110.26. THE WIDTH OF THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT SHALL BE THE WIDTH OF THE EQUIPMENT OR 30", WHICHEVER IS GREATER. THIS REQUIREMENT ALSO APPLIES TO DISCONNECT SWITCHES.
20	ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS LABORATORIES AND BEAR THEIR LABEL, OR ETL.

#	Note
21	PROVIDE ALL NEW BOARDS, BREAKERS, SWITCHES, ETC. IN ACCORDANCE WITH THE CONTRACTOR PREPARED POWER SYSTEM STUDY. NO EQUIPMENT SHALL BE PURCHASED, INSTALLED, AND/OR RELEASED PRIOR TO ENGINEER REVIEW AND APPROVAL OF THE POWER SYSTEM STUDY.
22	CONTRACTOR SHALL PROVIDE ARC FLASH LABELS FOR ALL ELECTRICAL EQUIPMENT WITHIN THE SCOPE OF THIS PROJECT. THESE LABELS SHALL BE GENERATED BY THE CONTRACTOR FROM THE POWER SYSTEM STUDY AND SUBMITTED WITH THE POWER SYSTEM STUDY SUBMITTAL FOR ENGINEER REVIEW AND APPROVAL. THIS INCLUDES ALL FIELD MARKING OF KAIC VALUES ON EXISTING OR NEW BOARDS PER THE CEC.
23	WIRING SPACE IN PANELBOARDS, DISTRIBUTION PANES AND SWITCHBOARDS SHALL BE DEDICATED TO CONDUCTORS TERMINATED IN THAT ENCLOSURE. PANELBOARDS, DISTRIBUTION PANELS AND SWITCHBOARDS SHALL NOT BE USED AS PULL AND/OR SPLICE BOXES FOR CONDUCTORS THAT TERMINATE IN OTHER ENCLOSURES. DO NOT SPLICE CONDUCTORS IN EQUIPMENT.
24	NEW CIRCUIT BREAKERS INSTALLED IN EXISTING EQUIPMENT SHALL BE PROVIDED TO MATCH THE NAIC RATINGS AND THE MANUFACTURER OF THE EXISTING.
25	PROVIDE CLEAR SIGNAGE ON ALL ELECTRICAL EQUIPMENT PER CEC TO INDICATE THE ARC FLASH HAZARD WARNING, AND THE MAXIMUM AVAILABLE FAULT CURRENT. WHEN MODIFICATIONS OCCUR THAT AFFECT THE MAXIMUM FAULT CURRENT THE CONTRACTOR SHALL RECALCULATE AS NECESSARY AND REMARK THE EQUIPMENT.
26	REFER TO MECHANICAL & PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT. PROVIDE ALL LINE VOLTAGE AND LOW VOLTAGE WIRING, CONTROL WIRING, INTERLOCK CABLING, AND CONDUIT REQUIRED.
27	PROVIDE FUSES IN DISCONNECTS FOR MECHANICAL EQUIPMENT AS COORDINATED WITH THE UNITS NAMEPLATE AND MANUFACTURERS INSTALLATION INSTRUCTIONS. FUSES SHALL BE CURRENT LIMITING TYPE.
28	PROVIDE A GFCI TYPE DEVICE WITH WEATHER PROOF WHILE IN USE COVER WITHIN 25' OF ALL EXTERIOR HVAC/PLUMBING EQUIPMENT.
29	WORK PERFORMED FROM THESE DRAWINGS SHALL ALSO COMPLY WITH THE PROJECT SPECIFICATIONS. IN THE EVENT THAT THERE IS A CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL TAKE PRECEDENT.
30	CONTRACTOR SHALL CONFIRM THAT ALL LIGHTING FIXTURES SPECIFIED, AND THE CEILING TYPES, FIXTURE TRIMS, AND FRAMES ARE ALL COMPATIBLE PRIOR TO THE CONTRACTOR LIGHTING FIXTURE SUBMITTAL.
31	BUILDING EXPANSION JOINTS ARE NOT INDICATED ON THE ELECTRICAL DRAWINGS (UON) AND SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS. INCLUDE FLEXIBLE EXPANSION WIRING METHODS AT EXPANSION JOINTS TO MEET THE DEFLECTION AND EXPANSION REQUIREMENTS OF THE BUILDING.
32	IN ADDITION TO THE WORK SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE ALL CONDUIT, BACK BOXES, AND RACEWAY REQUIRED FOR THE FIRE ALARM SYSTEM, SECURITY SYSTEM, AV SYSTEM, AND TELECOM SYSTEM ON THIS PROJECT. PLEASE REFER THE LOW VOLTAGE SYSTEM DRAWINGS AND SPECIFICATIONS FOR DEVICE LOCATIONS, ADDITIONAL INFORMATION, AND COMPLETE SCOPE OF WORK.
33	PER CEC ARTICLE 517 PROVIDE SEPARATE ELECTRICAL RACEWAYS.

#	Note
34	CONTRACTOR SHALL PREPARE RED LINED AS-BUILT DOCUMENTS REPRESENTING THE ACTUAL FIELD ROUTINGS AND INSTALLATION LOCATIONS FOR ALL ITEMS ON THIS PROJECT.
35	SURFACE MOUNTED CONDUIT WHERE APPROVED, AND INSTALLED, SHALL BE PAINTED TO MATCH THE ARCHITECTURAL FINISHES IN THAT AREA.
36	CONDUIT ROUTING (WHERE SHOWN) IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES.
37	DRAWINGS INDICATE JUNCTION BOXES WITH HOMERUNS ON THE PLANS. BUT THE CONTRACTOR SHALL PROVIDE ALL INTERMEDIATE RACEWAY WORK AND CONDUCTORS/CABLING BETWEEN THE DEVICES, FIXTURES, AND JUNCTION BOXES AS COORDINATED WITH ALL FIELD CONDITIONS AND TRADES.
38	CONTRACTOR SHALL PREPARE A DETAILED CONDUIT ROUTING DIAGRAM, INCLUDING MAJOR CONDUIT RUNS FROM PANELS OF ORIGIN OUT TO ALL BRANCH CIRCUIT CONNECTIONS (DOWN TO THE DEVICE LEVEL), LIGHT FIXTURE CONNECTIONS, CONTROLS, ETC. AS A SHOP DRAWING FOR REVIEW AND APPROVAL BY THE ENGINEER AND OWNER. THIS SHALL BE SUBMITTED, REVIEWED, AND APPROVED PRIOR TO ANY ROUGH-IN WORK IN THE FIELD.
39	THE DRAWINGS DO NOT FULLY REPRESENT THE ENTIRE INSTALLATION FOR THE SYSTEMS INDICATED BELOW. THE CONTRACTOR IS REQUIRED TO COMPLETE THE DESIGN FOR THESE SYSTEMS AS SPECIFIED HEREIN AND AS INDICATED ON THE DRAWINGS. CAD OR REVIT SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION: -LIGHTING AND DEVICE BRANCH CIRCUITING- DRAWINGS INDICATE ABOVE CEILING POWER JUNCTION BOXES, HOMERUNS, CIRCUITING AT TEACH JUNCTION BOX, AND LOCAL MEANS OF CONTROL. CORRESPONDING CIRCUIT NUMBERS ARE INDICATED ADJACENT TO LIGHTING FIXTURES AND RECEPTACLES. CONNECTIONS TO ALL FIXTURES AND DEVICES ARE NOT INDICATED ON THE PLANS BUT ARE REQUIRED. -SECURITY SYSTEM- THE DRAWINGS INDICATE THE LAYOUT AND LOCATION OF CONTROL CONSOLE(S), COMPONENTS, AS WELL AS LOCATION OF ALL SECURITY DEVICES, (IE: CCTV CAMERAS, CARD READERS, DOOR LOCKS AND CONTACTS, INTERCOM STATIONS, DURESS STATIONS, PERSONAL SECURITY SYSTEM RECEIVERS, ETC.). CONDUITS, WIRING, AND CABLING BETWEEN ALL COMPONENTS, EQUIPMENT, AND DEVICES, ETC. ARE NOT INDICATED ON THE PLANS BUT ARE REQUIRED. -LIGHTING AND DEVICE BRANCH CIRCUITING- DRAWINGS INDICATE ABOVE CEILING POWER JUNCTION BOXES, HOMERUNS, CIRCUITING AT TEACH JUNCTION BOX, AND LOCAL MEANS OF CONTROL. CORRESPONDING CIRCUIT NUMBERS ARE INDICATED ADJACENT TO LIGHTING FIXTURES AND RECEPTACLES. CONNECTIONS TO ALL FIXTURES AND DEVICES ARE NOT INDICATED ON THE PLANS BUT ARE REQUIRED.

WMB ARCHITECTS
5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

City of Roseville Parks, Recreation & Libraries
STANDARD COMFORT STATION #1 MASTER PLAN
Roseville, CA

WMB Project No. 20-086

The Engineering Enterprise
CONSULTING ENGINEERS
ALAMEDA | AUBURN
SAN DIEGO | SANTA BARBARA
https://www.engent.com

08.06.21	PLAN REVIEW

05.13.21 100% CDs
1 08.11.21 PLAN REVIEW 1
2 08.13.21 CO-ORDINATION

CITY OF ROSEVILLE CALIFORNIA
BUILDING CODE COMPLIANCE
BUILDING DIVISION
CONSTRUCTION DOCUMENTS
IN STATE OF JOB SITE
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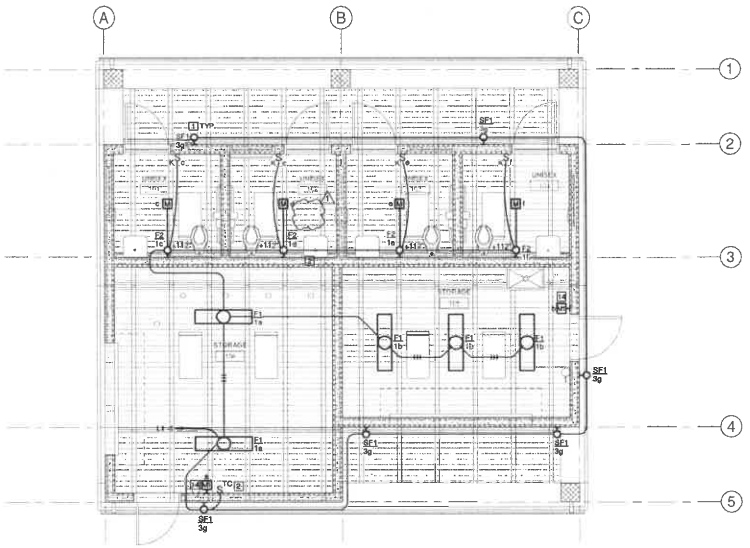
813-3611 10:15:59
6021-2-060

SYMBOLS AND PROJECT NOTES

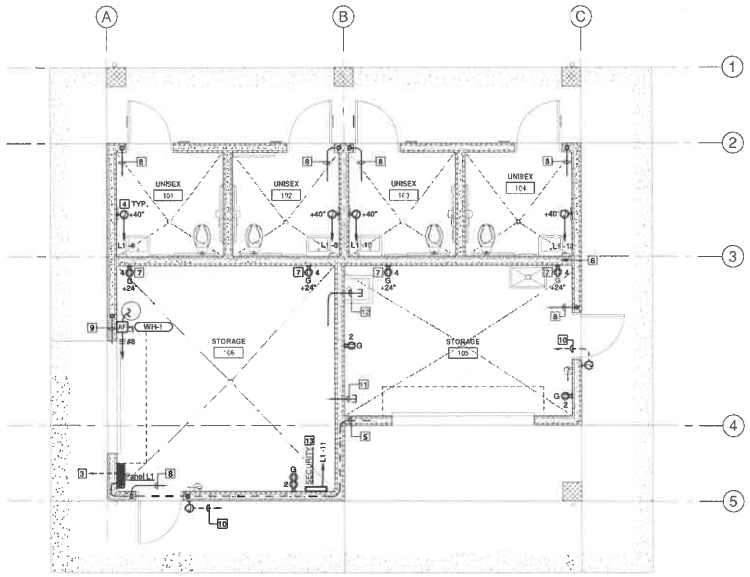
E1

Not for Construction
For Council Approval



4 LIGHTING PLAN

SCALE: 1/4" = 1'-0"



2 POWER & SIGNAL PLAN

SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

A. ALL CONDUITS TO BE ROUTED CONCEALED UNDER SLAB OR WITHIN BUILDING BLOCK CAVITY AS MUCH AS POSSIBLE. CONDUITS THAT MUST RUN SURFACE MOUNTED SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ROUGH-IN.

NUMBERED SHEET NOTES

1. LIGHT FIXTURE TO BE MOUNTED +84" AFF, TYPICAL FOR ALL EXTERIOR FIXTURE.
2. PROVIDE TIMER SWITCH. LEVITON VPT24-1E, FOR TIMER CONTORL OF EXTERIOR LIGHTING.
3. CONNECT TO MAIN SWITCHBOARD/PEDESTAL, SEE ONE-LINE DIAGRAM.
4. PROVIDE JUNCTION BOX FOR HAND DRYER @ +40" AFF. TYPICAL FOR ALL.
5. PROVIDE UFER GROUNDING ELECTRODE (#4 BARE CU) PER C.E.C
6. PROVIDE CONDUIT CHASE THRU WALL FOR POWER CONNECTION TO FAUCET CONTROL MODULE, TYPICAL FOR 4 FAUCET LOCATION.
7. RECEPTACLE FOR POWER TO AUTOMATIC HAND WASHING FAUCET.
8. PROVIDE 3/4" CONDUIT TO DOOR MIDDLE HINGE FOR SECURITY.
9. PROVIDE 3/4" CONDUIT TO +12" AFF FOR SECURITY.
10. PROVIDE 3/4" CONDUIT TO J-BOX WITH BLANK FACE PLATE AT +48" AFF FOR FUTURE CARD READER.
11. PROVIDE (3) 3/4" CONDUITS WITH PULLROPE STUBBED TO FRONT WALL FOR FUTURE REQUIREMENTS. COORDINATE STUB-IN HEIGHTS & LOCATIONS WITH CITY OF ROSEVILLE DURING CONSTRUCTION.
12. PROVIDE (3) 3/4" CONDUITS WITH PULLROPE STUBBED TO REAR WALL FOR FUTURE REQUIREMENTS. COORDINATE STUB-IN HEIGHTS & LOCATIONS WITH CITY OF ROSEVILLE DURING CONSTRUCTION.
13. PROVIDE & INSTALL THE FOLLOWING:
    - MILLENIUM TELLUS (6) DOOR ENTRY SYSTEM WITH MS APPLIANCE.
    - (1) KEYBOARD/MOUSE, & 17" LCD SCREEN & UPS.
    - (1) ALTRONICS 4 AMP POWER SUPPLY WITH BATTERY BACK-UP.
    - INSTALL & TERMINATE FIELD DEVICES, MAKE UP BACK BOARDS & HEAD END SYSTEMS.
    - PROVIDE & INSTALL WIRE & CABLE TO DOOR LOCKS.
    - PROGRAM, TEST & TRAIN THE END USER.
14. PROVIDE WALL SWITCH SENSOR WITH DIMMING, WSXA-JOT, FOR INTERIOR LIGHTING.
15. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC. CONDUIT WITHIN BUILDING SHALL BE EMT.

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER CATALOG NUMBER	DESCRIPTION	LIGHT SOURCE	TIER	WATTAGE	VOLTAGE
F1	LITHONIA LIGHTING CSS-L4B-4000LM-MVOLT-40K-80CRI-JOTVTX15	4" SURFACE MOUNTED LED, STEEL HOUSING WITH HIGH-GLOSS BAKED WHITE FINISH AND HIGHLY EFFICIENT SATIN WHITE LENS.	LED	TIER 1	35.8 W	120 V
F2	LITHONIA LIGHTING OLVTWM-4000K-MVOLT	UTILITY VAPOR TIGHT WALL MOUNT FIXTURE	LED	TIER 1	15 W	120 V
SF1	TERON LIGHTING CDSQ-L12.0-LT300-100-120V-BZ-40K-F-PCL-TP	VANDAL RESISTANT, DIE-CAST ALUMINUM HOUSING WALL MOUNT WITH PHOTOCELL, 120 VOLT	LED	TIER 1	12 W	120 V

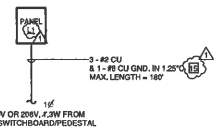
Branch Panel: Panel L1

Location: STORAGE... Served From — Phases 1 — A.I.C. Rating: 10K — Bus Rating 125 A
Mounting: SURFACE — Volts: 120/240 Single — Wires 3 — Main Type: MCB — Main Rating: 100 A

Load Served	Amp	Pole	#	A (kVA)	B (kVA)	#	Pole	Amp	Load Served
LTG 101,102,103,104,105,106	20 A	1	1	0.24	0.72	2	1	20 A	REC. 105,106
EXTERIOR LTG	20 A	1	3		0.07	0.72	4	1	20 A	FAUCET REC. 105,106
SPARE	20 A	1	5	0.00	1.90		6	1	20 A	HAND DRYER 101
SPARE	20 A	1	7			0.00	1.90	8	1	20 A	HAND DRYER 102
SPARE	20 A	1	9	0.00	1.90			10	1	20 A	HAND DRYER 103
DOOR SECURITY PANEL	20 A	1	11			0.10	1.90	12	1	20 A	HAND DRYER 104
SPARE	20 A	1	13	0.00	0.00			14	--	--	space
WH-1	50 A	2	15			3.00	0.00	16	--	--	space
--	--	--	17	3.00	0.00			18	--	--	space
			Total Load:	7.76 kVA		7.69					
			Total Amps:	65 A		64.1 A					

Load Classification	Conn. Load	Demand Factor	Est. Demand	Panel Totals
Motor	6 kVA	125.00%	7.5 kVA	Connected Load: 15.45 kVA
Other	7.7 kVA	100.00%	7.7 kVA	Connected Amps: 64.38 A
Lighting	0.31 kVA	125.00%	0.39 kVA	Est. Demand Load: 17.03 kVA
Receptacles	1.44 kVA	100.00%	1.44 kVA	Est. Demand Amps: 70.96 A

Notes:



3 ONE-LINE DIAGRAM

SCALE: NTS

WMB ARCHITECTS

5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

City of Roseville Parks, Recreation & Libraries
STANDARD COMFORT STATION #1 MASTER PLAN
Roseville, CA

WMB Project No. 20-086

The Engineering Enterprise
CONSULTING ENGINEERS
ALAMEDA | AUBURN
SAN DIEGO | SANTA BARBARA

SCOTT WHEELER — ELECTRICAL — STATE OF CALIFORNIA

08.06.21	PLAN REVIEW

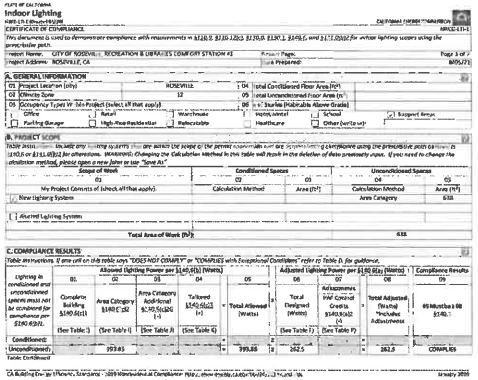
	05.13.21	100% CD
1	08.11.21	PLAN REVIEW 1
2	08.12.21	COORDINATION

CITY OF ROSEVILLE CALIFORNIA
BUILDING DIVISION
CONSTRUCTION DOCUMENTS NOT APPROVED FOR CODE COMPLIANCE
MUST BE ON JOB SITE
BY
DATE 08/31/2021 12:13:09
BC21-3950

Not for Construction
For Council Approval

POWER AND LIGHTING PLAN

E2



Indoor Lighting
MRC-LTI-1(New)-RESCertificate of Compliance
MRC-LTI-1

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with requirements in §110.9, §130.1(b), §130.0, §130.1, §140.6, and §141.0(b)2F for indoor lighting scopes using the prescriptive path.

Project Name: CITY OF ROSEVILL... RECREATION & LIBRARIES COMFORT STATION #1 | Project Page: | Page 3 of 7
Project Address: ROSEVILLE, CA | Date Prepared: | 8/05/21

A. GENERAL INFORMATION

01	Project Location (city)	ROSEVILLE	04	Total Conditioned Floor Area (ft²)	
02	Climate Zone	12	05	Total Unconditioned Floor Area (ft²)	
06	Occupancy Types W Tabs Project (select all that apply)		06	Is the Building Predominantly Above Grade?	

1 Office | 1 Retail | Warehouse | Hotel/Motel | School | ✓ Support Areas
Parking Garage | High-Rise Residential | Refrigerated | Healthcare | Other (write-in):

B. PROJECT SCOPE

Table Instructions: Include only building systems that are within the scope of the permit application and are documenting compliance using the prescriptive path described in §140.6 or §141.0(b)2F for alterations. Warning: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new folder or use "Save As".

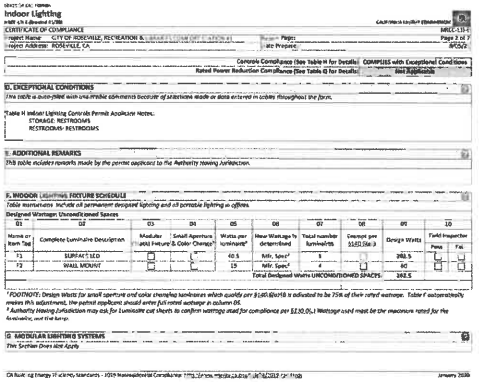
Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
✓ New lighting System			Area Category	633
[ ] Altered Lighting System				
Total Area of Work (ft²):				633

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.

Allowed lighting Power per §140.6(b) (Watts)					Adjusted lighting Power per §140.6(b) (Watts)			
Lighting in conditioned and unconditioned spaces must not be accounted for compliance per §140.6(b)1.	01	02	03	04	05	06	07	08	09
	Complete Building or Area Category §140.6(c)1	Area Category Additional §140.6(c)2	Tailored §140.6(c)3	Total Allowed (Watts)		Total Designed (Watts)	Adjustments PAF Control Credits §140.6(a)2	Total Adjusted (Watts) *Includes Adjustments	09 Must be ≥ 08 §140.6
	(See Table C)	(See Table B)	(See Table G)			(See Table F)	(See Table P)		
Conditioned:									
Unconditioned:	393.65			393.65	≥	262.5		262.5	COMPLIES
Total: Conditioned									

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance - http://www.energy.ca.gov/title24/2019standards/nonresidential/index.html
January 2020



Indoor Lighting
MRC-LTI-1(New)-RESCertificate of Compliance
MRC-LTI-1

CERTIFICATE OF COMPLIANCE

Project Name: CITY OF ROSEVILLE, RECREATION & LIBRARIES COMFORT STATION #1 | Project Page: | Page 2 of 7
Project Address: ROSEVILLE, CA | Date Prepared: | 8/05/21

Complete Compliance (See Table H for Details): COMPLIES with Exceptional Conditions
Rated Power Reduction Compliance (See Table G for Details): Not Applicable

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with user-entries comment boxes or data entered in tables throughout the form.

Table H Indoor Lighting Controls Permit Applicant Notes:
STORAGE: RESTROOMS
RESTROOMS: RESTROOMS

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority having jurisdiction.

F. INDOOR Lighting FIXTURE SCHEDULE

Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Unconditioned Spaces

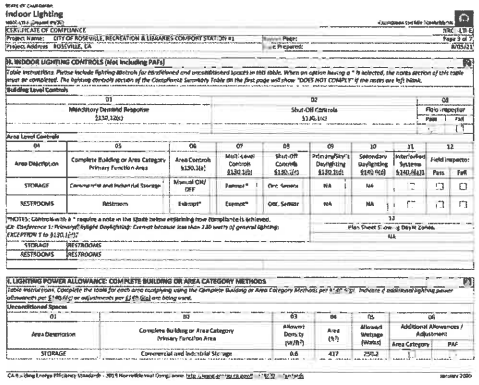
01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular Sensor(s) and Fixture & Color Change*	Small Aperture Wall Wash*	Watts per luminaire*	New Wattage % determined	Total number luminaires	Count per §140.6(a) 3	Design Watts	Field Inspector: Pass	Fail
F1	SURFACE LED			40.5	Min. Spec*	5		202.5		
F2	WALL MOUNT			15	Min. Spec*	4		60		
					Total Designed Watts UNCONDITIONED SPACES:			262.5		

*FOOTNOTE: Design Watts for small aperture and cove cleaning luminaires which qualify per §140.6(a)3B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
* Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, and the lamp.

G. MODULAR LIGHTING SYSTEMS

This Section Does not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance - http://www.energy.ca.gov/title24/2019standards/nonresidential/index.html
January 2020



Indoor Lighting
MRC-LTI-1(New)-RESCertificate of Compliance
MRC-LTI-1

CERTIFICATE OF COMPLIANCE

Project Name: CITY OF ROSEVILLE, RECREATION & LIBRARIES COMFORT STATION #1 | Project Page: | Page 4 of 7
Project Address: ROSEVILLE, CA | Date Prepared: | 8/05/21

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

Table Instructions: Partial include lighting controls for conditioned and unconditioned spaces in this table. When an option having a "" is selected, the extra 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 tests are not met.

Building Level Controls

01	02	03
Mandatory Demand Response §130.1(b)	Shut-Off Controls §130.1(c)	Field Inspector: Pass / Fail

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(b)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary Sidelit Daylighting §130.1(d)	Secondary Daylighting §130.1(d)	Interlocked Systems §130.1(d)3	Field Inspector: Pass	Fail
STORAGE	Community and Industrial Storage	Manual ON/ OFF	Partial*	Occ. Sensor	NA	NA			
RESTROOMS	Restroom	Partial*	Exempt*	Occ. Sensor	NA	NA			

*NOTES: Controls with a * require a note in the table below explaining how compliance is achieved.
Ex: Conference 1: Manual/Daylight Dimming: Exempt because less than 120 watts of general lighting.
EXCEPTION 1 to §130.1(b)2:

STORAGE	RESTROOMS
RESTROOMS	RESTROOMS

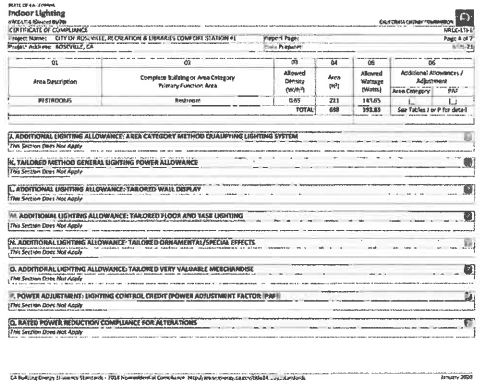
I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Table Instructions: Complete the table for each area category using the Complete Building or Area Category Methods per §140.6(c). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a)2 are being used.

Unconditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Watts per (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowances / Adjustment: Area Category	PAF
STORAGE	Commercial and Industrial Storage	0.6	417	250.2		

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance - http://www.energy.ca.gov/title24/2019standards/nonresidential/index.html
January 2020



Indoor Lighting
MRC-LTI-1(New)-RESCertificate of Compliance
MRC-LTI-1

CERTIFICATE OF COMPLIANCE

Project Name: CITY OF ROSEVILLE, RECREATION & LIBRARIES COMFORT STATION #1 | Project Page: | Page 4 of 7
Project Address: ROSEVILLE, CA | Date Prepared: | 8/05/21

01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowances / Adjustment: Area Category / PAF
RESTROOMS	Restroom	0.63	221	141.65	
	TOTAL		638	393.65	See Tables J or P for data

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD EQUIPPING LIGHTING SYSTEM

This Section Does Not Apply

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This Section Does Not Apply

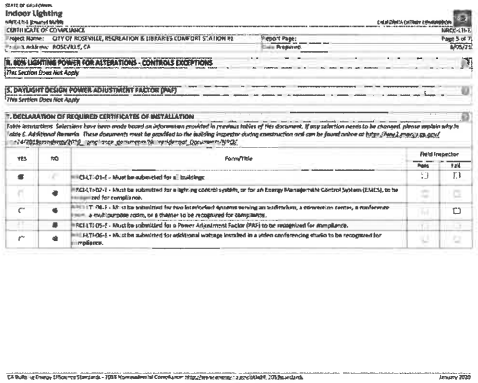
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This Section Does Not Apply

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This Section Does not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance - http://www.energy.ca.gov/title24/2019standards/nonresidential/index.html
January 2020



Indoor Lighting
MRC-LTI-1(New)-RESCertificate of Compliance
MRC-LTI-1

CERTIFICATE OF COMPLIANCE

Project Name: CITY OF ROSEVILLE, RECREATION & LIBRARIES COMFORT STATION #1 | Project Page: | Page 5 of 7
Project Address: ROSEVILLE, CA | Date Prepared: | 8/05/21

R. 90% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS

This Section Does not Apply

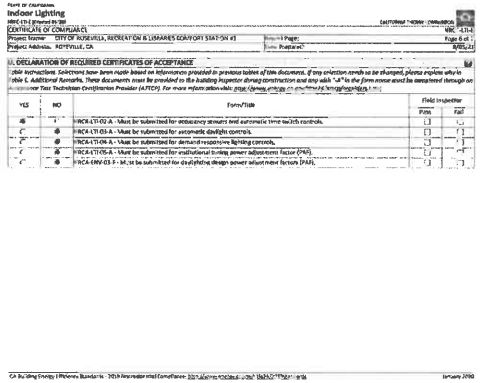
S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This Section Does Not Apply

T. 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 any with "-A" in the form name must be completed through an Energy Test Technician Certification Provider (ATCP). For more information visit: http://www.energy.ca.gov/title24/2019standards/

YES	NO	Form/Title	Field Inspector: Pass	Fail
●	○	NRCI-LTI-01-E – Must be submitted for all buildings		
○	●	NRCA-LTI-02-A – Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.		
○	●	NRCA-LTI-03-A – Must be submitted for new bi-enforced classroom serving an institutional, a classroom center, a multi-purpose room, or a theater to be recognized for compliance.		
○	●	NRCI-LTI-05-E – Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.		
○	●	NRCA-LTI-06-A – Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.		



Indoor Lighting
MRC-LTI-1(New)-RESCertificate of Compliance
MRC-LTI-1

CERTIFICATE OF COMPLIANCE

Project Name: CITY OF ROSEVILLE, RECREATION & LIBRARIES COMFORT STATION #1 | Project Page: | Page 6 of 7
Project Address: ROSEVILLE, CA | Date Prepared: | 8/05/21

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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YES	NO	Form/Title	Field Inspector: Pass	Fail
●	○	NRCA-LTI-02-A – Must be submitted for occupancy sensors and automatic time switch controls.		
○	●	NRCA-LTI-03-A – Must be submitted for automatic daylight controls.		
○	●	NRCA-LTI-04-A – Must be submitted for demand responsive lighting controls.		
○	●	NRCA-LTI-05-A – Must be submitted for institutional tuning power adjustment factor (PAF).		
○	●	NRCA-ENV-03-F – Must be submitted for daylighting design power adjustment factor (PAF).		



Indoor Lighting
MRC-LTI-1(New)-RESCertificate of Compliance
MRC-LTI-1

CERTIFICATE OF COMPLIANCE

Project Name: CITY OF ROSEVILLE, RECREATION & LIBRARIES COMFORT STATION #1 | Project Page: | Page 7 of 7
Project Address: ROSEVILLE, CA | Date Prepared: | 8/05/21

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name:	Cole Lewis	Documentation Author Signature:	
Company:	The Engineering Enterprise	Signature Date:	08/05/2021
Address:	1125 High St.	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Auburn, CA 95603	Phone:	530-886-8556

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:	Scott Wheeler	Responsible Designer Signature:	
Company:	The Engineering Enterprise	Date Signed:	08/05/2021
Address:	1125 High St.	License:	E016491
City/State/Zip:	Auburn, CA 95603	Phone:	530-886-8556

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance - http://www.energy.ca.gov/title24/2019standards/nonresidential/index.html
January 2020

Not for Construction
For Council Approval

WMB ARCHITECTS
5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

City of Roseville Parks, Recreation & Libraries
STANDARD COMFORT STATION #1 MASTER PLAN
Roseville, CA

WMB Project No. 20-086

The Engineering Enterprise
CONSULTING ENGINEERS
ALAMEDA | AUBURN
SAN DIEGO | SANTA BARBARA
https://www.engenl.com

REGISTERED PROFESSIONAL ENGINEER
SCOTT WHEELER
ELECTRICAL
STATE OF CALIFORNIA

08.06.21	PLAN REVIEW

05.13.21 100% CD'S
1 08.11.21 PLAN REVIEW 1
2 08.13.21 PLAN REVIEW 2

CITY OF ROSEVILLE
CALIFORNIA
BUILDING CODE COMPLIANCE
BUILDING DIVISION
CONSTRUCTION DOCUMENTS
MUST BE ON JOB SITE
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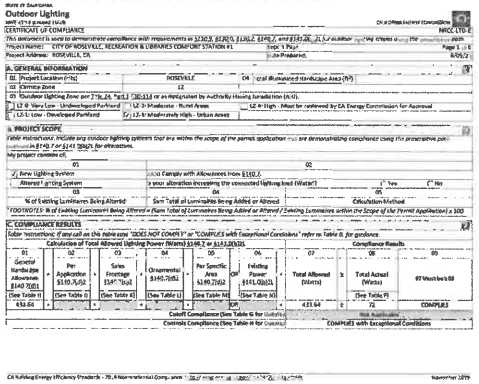
2021-3060

TITLE 24 COMPLIANCE FORMS

E3



Outdoor Lighting

CERTIFICATE OF COMPLIANCE — NRCC-LTO-E

Project Name: CITY OF ROSEVILLE, RECREATION & LIBRARIES COMFORT STATION #1 — Report Page: Page 1 of 6

Project Address: ROSEVILLE, CA — Date Prepared: 6/05/21

A. GENERAL INFORMATION

01 Project Location (city): ROSEVILLE — 04 Total Illuminated Hardscape Area (ft²)

02 Climate Zone: 12

03 Outdoor Lighting Zone per §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

Field Inspectors: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using this prescriptive path in §140.7 or §141.0(b)2L for alterations.

My project consists of:

01 — ☑ New Lighting System

☐ Altered Lighting System

02 — ☐ Must Comply with Allowances from §140.7.

In your alteration increasing the connected lighting load (Watts)? ☐ Yes ☐ No

03 — % of Existing Luminaires Being Altered*

04 — Sum Total of Luminaires Being Added or Altered

05 — Calculation Method

* 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 B, for guidance.

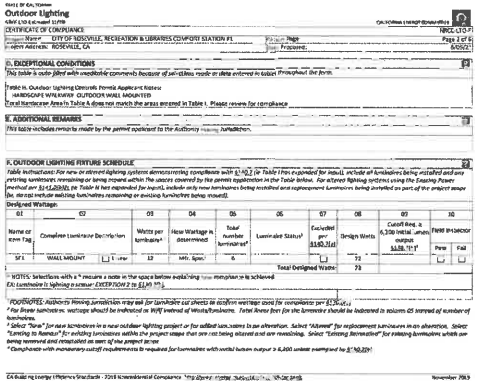
Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L — Compliance Results

01 General Hardscape Allowance §140.7(d)1		02 Per Applicable §110.7(c)2		03 Sales Frontage §140.7(c)2		04 Ornamental §140.7(d)2		05 Per Specific Area §140.7(d)3	OR	06 Holding Power §141.0(b)2L		07 Total Allowed (Watts)		08 Total Actual (Watts)		09 Watts less 08
(See Table H)		(See Table I)		(See Table K)		(See Table L)		(See Table M)		(See Table N)				(See Table P)		
433.64	+	0	+	0	+	0	+	0	OR	433.64	-	72	=	COMPLIES		

Cutoff Compliance (See Table G for Details): Not Applicable

Controls Compliance (See Table H for Details): COMPLIES with Exceptional Conditions

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — November 2019



Outdoor Lighting

CERTIFICATE OF COMPLIANCE — NRCC-LTO-E

Project Name: CITY OF ROSEVILLE, RECREATION & LIBRARIES COMFORT STATION #1 — Page 2 of 6

Project Address: ROSEVILLE, CA — Date Prepared: 6/05/21

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with exceptional comments because of selections made or data entered in cells throughout the form.

Table H. Outdoor Lighting Controls Permit Applicant Notes:

HARDSCAPE WALKWAY OUTDOOR WALL MOUNTED

Total Hardscape Area's in Table A does not match the areas entered in Table I. Please review for compliance

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 (in Table I this is denoted for Inputs), 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, the Table N fixtures being moved within the spaces covered by the permit application. Do not include existing luminaires remaining or existing luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

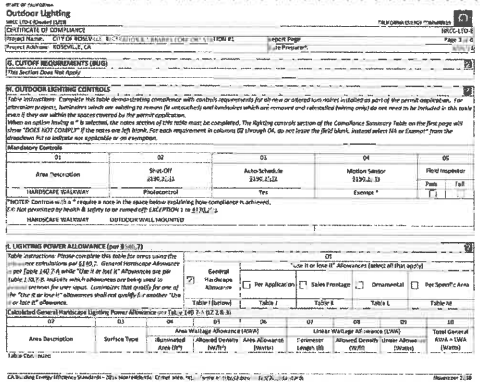
Designed Wattage

01 Name or Item Tag	02 Complete Luminaire Description	03 Watts per luminaire*	04 New Wattage is Determined	05 Total number luminaires*	06 Luminaire Status*	07 Excluded per §140.7(a)	08 Design Watts	09 Cutoff Req. is 6,300 Initial Lumens output §4.5b, Tbl F	10 Field Inspector: Pass	Fail
SF1	WALL MOUNT ☐ 1 - new	12	MFG. Spec.	6		☐	72		☐	☐
					Total Designed Watts:		72			

* NOTES: Selections with a * require a note in the space below explaining how exception is achieved.
EX: luminaire is lighting a sensor EXCEPTION 2 to §140.7(b)

FOOTNOTES: Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per §130.0(c).
* For Bryan luminaires, wattage should be indicated as WPF instead of Watts/luminaire. Total Areas box for the luminaire should be indicated in column 05 instead of number of luminaires.
* 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 Removed" for existing luminaires which are being removed and relocated as part of the project scope.
* Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output > 6,300 unless exempted by §140.7(b).

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — November 2019



Outdoor Lighting

CERTIFICATE OF COMPLIANCE — NRCC-LTO-E

Project Name: CITY OF ROSEVILLE, RECREATION & LIBRARIES COMFORT STATION #1 — Report Page: Page 3 of 6

Project Address: ROSEVILLE, CA — Date Prepared: 6/05/21

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 unaffected) and luminaires which are removed and relocated (where only) do not need to be included in this table since it 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 drop-down list or indicate not applicable or an exemption.

Mandatory Controls

01 Area Description	02 Shut-Off §130.1(b)	03 Auto-Schedule §130.1(c)1	04 Motion Sensor §130.1(c) 3	05 Field Inspection: Pass	Fail
HARDSCAPE WALKWAY	Photocontrol	Yes	Exempt *	☐	☐

*NOTE: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety or as exempted by EXCEPTION 1 to §130.1(c) 3.

HARDSCAPE WALKWAY — OUTDOOR WALL MOUNTED

I. LIGHTING POWER ALLOWANCE (per §140.7)

Table Instructions: Please complete this table for areas using the prescriptive allowances per §140.7. General Hardscape Allowance per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to calculate maximum lighting power. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

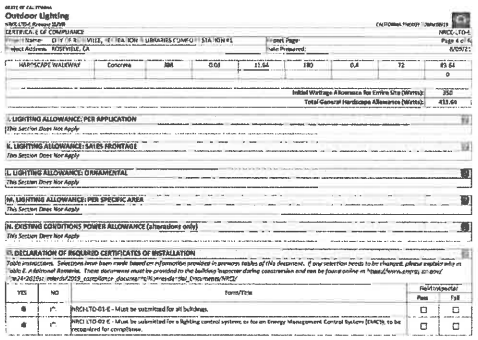
General Hardscape Allowance — "Use it or lose it" Allowances (select all that apply): ☐ Per Application ☐ Sales Frontage ☐ Ornamental ☐ Per Specific Area

Table I (Below) | Table J | Table K | Table L | Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (§ 2.6.3):

07 Area Description	08 Surface Type	09 Area Wattage Allowance (LWAA) Illuminated Area (ft²)	09a Allowed Density (W/ft²)	09b Area Allowance (Watts)	10 Linear Wattage Allowance (LWAA) Perimeter Length (ft)	10a Allowed Density (W/ft)	10b Linear Allowance (Watts)	11 Total General Hardscape Allowance (LWAA + LWAA (Watts)
Table Continues								

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — November 2019



Outdoor Lighting

CERTIFICATE OF COMPLIANCE — NRCC-LTO-E

Project Name: CITY OF ROSEVILLE, RECREATION & LIBRARIES COMFORT STATION #1 — Report Page: Page 4 of 6

Project Address: ROSEVILLE, CA — Date Prepared: 6/05/21

HARDSCAPE WALKWAY	Concrete	NR	0.68	11.64	180	0.4	72	85.64
								0
						Initial Wattage Allowance for Entire Site (Watts):		252
						Total General Hardscape Allowance (Watts):		433.64

J. LIGHTING ALLOWANCE: PER APPLICATION

This Section Does Not Apply

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

This Section Does Not Apply

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This Section Does Not Apply

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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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.	☐	☐

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — November 2019



Outdoor Lighting

CERTIFICATE OF COMPLIANCE — NRCC-LTO-E

Project Name: CITY OF ROSEVILLE, RECREATION & LIBRARIES COMFORT STATION #1 — Report Page: Page 5 of 6

Project Address: ROSEVILLE, CA — Date Prepared: 6/05/21

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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YES	NO	Form/Title	Field Inspector: Pass	Fail
☒	☐	NRCA-LTO-20-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to a 20 luminaires.	☐	☐



Outdoor Lighting

CERTIFICATE OF COMPLIANCE — NRCC-LTO-E

Project Name: CITY OF ROSEVILLE, RECREATION & LIBRARIES COMFORT STATION #1 — Report Page: Page 6 of 6

Project Address: ROSEVILLE, CA — Date Prepared: 6/05/21

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name: Cole Lewis — Documentation Author Signature: Cole Lewis

Company: The Engineering Enterprise — Signature Date: 06/05/21

Address: 1125 High St. — CEA/HERS Certification Identification (if applicable):

City/State/Zip: Auburn, CA 95603 — Phone: 530-885-8556

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.
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Responsible Designer Name: Scott Wheeler — Responsible Designer Signature:

Company: The Engineering Enterprise — Date Signed: 06/05/21

Address: 1125 High St. — License: E015491

City/State/Zip: Auburn, CA 95603 — Phone: 530-885-8556

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — November 2019

WMB ARCHITECTS

5757 Pacific Avenue
Suite 226
Stockton, CA 95207

2000 L Street
Suite 125
Sacramento, CA 95811

T 209.944.9110
F 209.944.5711
www.wmbarchitects.com

City of Roseville Parks, Recreation & Libraries
STANDARD COMFORT STATION #1 MASTER PLAN

Roseville, CA

WMB Project No. 20-086

The Engineering Enterprise
CONSULTING ENGINEERS
ALAMEDA | AUBURN
SAN DIEGO | SANTA BARBARA
https://www.engent.com

REGISTERED PROFESSIONAL ENGINEER — SCOTT WHEELER — ELECTRICAL — STATE OF CALIFORNIA

08.06.21 | PLAN REVIEW

05.13.21 100% CDs
1 08.11.21 PLAN REVIEW 1
2 08.13.21 COORDINATION

CITY OF ROSEVILLE CALIFORNIA
BUILDING CODE COMPLIANCE
BUILDING DIVISION
CONSTRUCTION DOCUMENTS
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6321/1966

TITLE 24 COMPLIANCE FORMS

E4

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COUNCIL COMMUNICATION

CC #: 2251
File #: 0704-01

Title:	Kenwood Oaks Park Playground Structure Replacement Project - Contract Purchase Agreement
Contact:	Ken Peterson 916-746-1233 kjpeterson@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.2.

RECOMMENDATION TO COUNCIL

Staff recommends that City Council adopt a resolution to approve a contract purchase agreement (#3002391) with PlayPower LT Farmington, Inc. C/O All About Play for $158,451.29 to remove and replace the Kenwood Oaks playground structure, and authorize the City Manager to execute the agreement on behalf of the City of Roseville.

BACKGROUND

The school-aged playground structure at Kenwood Oaks Park is more than 20 years old. The playground structure has reached the end of its useful life. During the planning process the Parks, Recreation & Libraries department reached out to the local community for public feedback.

Public outreach included:

- A two week write-in period seeking feedback on a proposed playground structure layout. The two week write-in period occurred in January 2022. Signs were posted onsite and information was shared via social media.
- Two comments were received. Kenwood Oaks' playground structure was redesigned per public feedback received.
- A second two-week write-in period was conducted in April 2022.
- The second write-in period received 10 comments for Kenwood Oaks. Several comments were about the park in general and not related to the replacement playground structure layout.

Staff recommends approval of a Contract Purchase Agreement (#3002391) with PlayPower LT Farmington, Inc. C/O All About Play for $158,451.29 to remove and replace the Kenwood Oaks Park playground structure with a new structure. The Contract Purchase Agreement piggybacks Sourcewell Contract #010521-LTS-4.

FISCAL IMPACT

The project was approved in FY2020-21 using funds from the Parks, Recreation & Libraries Capital Projects Fund (Fund 3130) for Kenwood Oaks Park. Maintenance costs are funded by the General Fund and are anticipated to remain unchanged. There will be no new General Fund impacts.

ENVIRONMENTAL REVIEW

The proposed project involves the replacement of the existing playground structure and facilities. This activity is categorically exempt from CEQA as a Class 2 Exemption (State CEQA Guidelines Section 15302). The Exemption has been prepared and no further CEQA action is required.

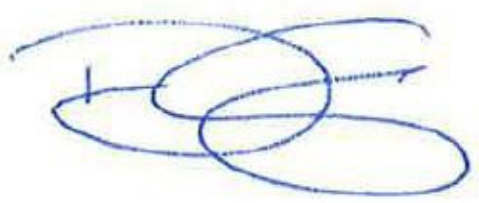
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal C - Maintain a safe and healthy community
Goal D - Enhance economic vitality
Goal E - Deliver exceptional city services
Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Ken Peterson, Park Development Project Manager

Jill Geller, Parks, Recreation & Libraries Director



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

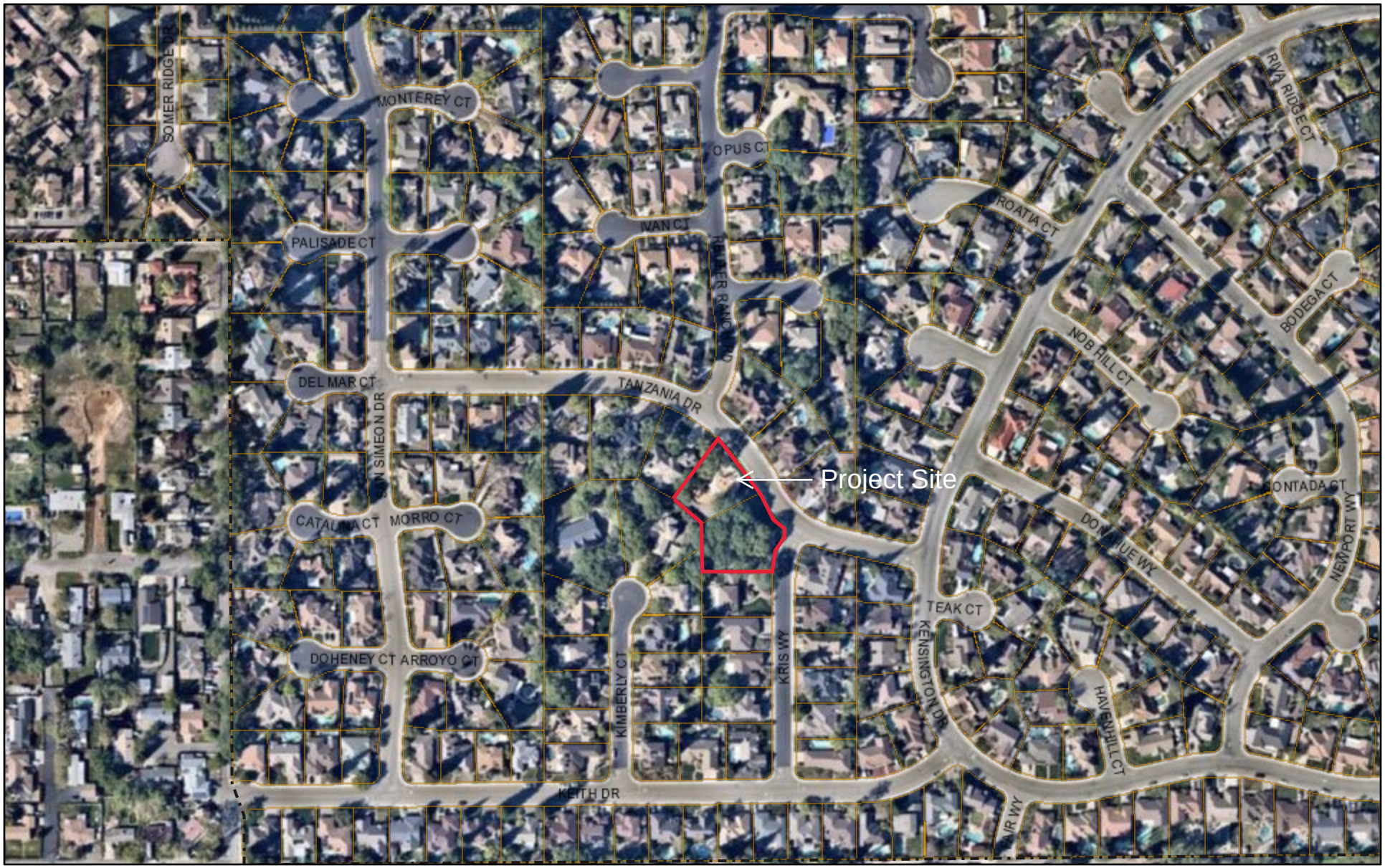
Kenwood Oaks - Vicinity Map

Resolution 22-319

Kenwood Oaks Playground - CPA

SourceWell Contract #010521

Kenwood Oaks Park - Vicinity Map



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0 0.03 0.06 0.12 mi

0 0.05 0.1 0.19 km

Copyright nearmap 2015, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Copyright: City of Roseville

Disclaimer: This map was prepared for general inquires only. The City is not liable for errors or omissions. Off icial informat ion should be obt ained f rom recorded or adopted City documents

RESOLUTION NO. 22-319

APPROVING A CONTRACT PURCHASE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND PLAYPOWER LT FARMINGTON, INC. C/O ALL ABOUT PLAY AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a contract purchase agreement (3002391), for the Kenwood Oaks Park Playground Structure Replacement Project, by and between the City of Roseville and PlayPower LT Farmington, Inc. c/o All About Play has been reviewed by the City Council.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said contract purchase agreement is 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 _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

CITY OF ROSEVILLE CALIFORNIA

Contract Purchase Agreement 3002391

Supplier Details:

Company	PlayPower LT Farmington Inc
Contact	Glen Wurster
Address	C/O All About Play
	3844 Presidio St
	Sacramento, CA 95838

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 3002391

Agreement	**3002391**
Agreement Date	**09-JUL-2022**
Revision	**0**
Agreement Amount	**158,451.29 USD**

Invoice To	**City of Roseville** **Accounts Payable** **311 Vernon St** **ROSEVILLE CA 95678**	Supplier	**PlayPower LT Farmington Inc** C/O All About Play 3844 Presidio St Sacramento, CA 95838
Phone:	(916) 774-5488	**Phone:**	(916) 923-2180
Fax:	(916) 784-3796	**Fax:**	()
Email:	accountspayable@roseville.ca.us	**Email:**	glen@playgroundpros.com

Description of Labor, equipment and/or materials

THE VENDOR SHALL PROVIDE AND INSTALL PLAYGROUND EQUIPMENT AND SHADE AT KENWOOD OAKS PARK FOR THE ROSEVILLE PARKS RECREATION AND LIBRARIES DEPARTMENT (PRL) IN ACCORDANCE WITH THE ATTACHED PLAYPOWER LT FARMINGTON C/O ALL ABOUT PLAY QUOTE DATED 7/8/2022 UTILIZING THE LITTLE TIKES COMMERCIAL EQUIPMENT - SOURCEWELL/ NJPA CONTRACT #010521-LTS.

START DATE: EXECUTED AGREEMENT
END DATE: UPON FINAL PAYMENT

CONTACT KEN PETERSON IN THE PRL DEPARTMENT AT (916) 746-1233 OR EMAIL KJPETERSON@ROSEVILLE.CA.US FOR QUESTIONS REGARDING THIS AGREEMENT.

Customer #	Supplier #	Payment Terms	Freight Terms	FOB	Shipping Method
	11284	**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 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.

21. 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.

22. 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.

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. _____

Contractor License No. _____

DIR Registration No. _____

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.
- 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:____
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	
PLAYPOWER CT FARMINGTON, INC.	
Signature:	
Print Name:	JEFF PRANGLER
Title:	CUSTOMER SERVICES MANAGER

Supplier	
Signature:	
Print Name:	
Title:	

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

QUOTATION

PlayPower LT Farmington C/O

All About Play Inc
3844 Presidio Street, Sacramento, CA 95838
Phone: 916-923-2180 Fax: 916-646-6383
www.playgroundpros.com

TO:	City of Roseville Kenwood Oaks Park Option 2	**DATE:**	July 8, 2022
		BY:	Glen Wurster 916.923.2180 PH
CONTACT:	Ken Peterson		
PHONE:	916.746.1233		glen@playgroundpros.com
EMAIL:	kjpeterson@roseville.ca.us		
REFERENCE:	Kid Builder Playground with Integrated Shade		

Little Tikes Commercial Equipment - Sourcewell/NJPA Contract #010521-LTS

	Qty	Description	Each	Total
MATERIALS:	1	Kid Builder Playground With 30'X30' Integrated Shade	$ 80,657.35	$ 80,657.35
	1	Kid Builder Arch Swing (2) Belt (2) Tot Seats	$ 6,553.00	$ 6,553.00
DISCOUNT:		Sourcewell discount	17%	(14,825.76)
		SUB TOTAL:		$ 72,384.59
TAX:		Sales tax is an estimate final tax will be charged based on final shipping address	7.750%	$ 5,609.81
FREIGHT:		Shipping cost of $6,400.00 covered by Sourcewell		No Charge
INSTALLATION:		Remove & dispose of existing playground and swings Remove & dispose of existing PIP in both areas Remove & reinstall existing wood fiber in both areas Install new ADA ramps in both areas Install new KB playground with integrated shade & swings Supply and install new filter fabric and 40 cu.yd. of top off fiber Provide temporary construction fencing Final playground inspection by 3rd party inspector Receive and offload equipment on site		$ 77,350.00
BONDS:		Payment and performance bonds		$ 3,106.89
TOTAL:				**$ 158,451.29**

Quote Good for 30 Days

Current lead time for standard equipment is 34 plus weeks for delivery.
Price increases or surcharges may be applied due to the volatility of steel and raw material cost.
Not Responsible for Underground Utilities, Obstructions or Permits of Any Kind.

Please make purchase orders out to:
PlayPower LT Farmington C/O All About Play 3844 Presidio St., Sacramento, CA 95838

Remit All Payments To:
PlayPower LT Farmington PO Box 734155 Dallas, TX 75373-4155

I accept the terms and pricing listed on the above quotation:

Signature: _____ **Date:** _____

Little Tikes Equipment Prices and Labor Rates

Sourcewell Contract #010521 Equipment Pricing & Labor Rates

PREPAID FREIGHT:

	Destination		Order Amount $0-$999	$1,000-$4,999	$5,000-$14,999	$15,000-$24,999	$25,000-$49,000	$50,000-$99,999	$100,000 & above
Playground Equipment	48 contiguous states		List Plus Freight	List Plus 7%	List Less 3%	List Less 8%	List Less 13%	List Less 17%	List Less 20%
Early Childhood, Site Amenties & Shade Products	48 contiguous states		List Plus Freight	List Plus 7%	List Price	List Price	List Less 5%	List Less 10%	List Less 15%
Playground Structures	Alaska, Hawaii & Canada		List Plus Freight	List Plus 17%	List Plus 10%	List Plus 5%	List Plus 2%	List Less 2%	List Less 5%
Early Childhood, Site Amenties & Shade Products	Alaska, Hawaii & Canada		List Plus Freight	List Plus 27%	List Plus 20%	List Plus 20%	List Plus 15%	List Plus 10%	List Plus 5%

FOB ORIGIN (FREIGHT NOT INCLUDED)

	Destination		Order Amount $0-$999	$1,000-$4,999	$5,000-$14,999	$15,000-$24,999	$25,000-$49,000	$50,000-$99,999	$100,000 & above
Playground Structures	All 50 States & Canada		List Plus Freight	List Less 3%	List Less 8%	List Less 13%	List Less 17%	List Less 20%	List Less 23%
Early Childhood, Site Amenties & Shade Products	All 50 States & Canada		List Plus Freight	List Less 3%	List Less 7%	List Less 7%	List Less 10%	List Less 15%	List Less 20%
Replacement Parts & Hardware	All 50 States & Canada		List Less 2%	List Less 2%	List Less 2%	List Less 2%	List Less 2%	List Less 2%	List Less 2%

CUSTOM EQUIPMENT:

Level 1 Customs	Priced not to exceed $10,000
Level 2 Customs	Priced from $10,001 - $25,000
Level 3 Customs	Priced from $25,001 - $50,000
Level 4 Customs	Priced from $50,0001 - $100,000
Level 5 Customs	Priced from $100,001 - $250,000

Turnkey Solutions:

Equipment Installation	Priced from 30% - 65% of Equipment List Price. Pricing can vary greatly by state/province and across the various regions of the country
Demo & Removal of Existing Equipment	Priced from $2500 - $6000 per day. Pricing can vary greatly by state/province and across the various regions of the country
Site Preparation	Priced from $2500 - $6000 per day. Pricing can vary greatly by state/province and across the various regions of the country
Planning & Design Servic	Priced from $0 - $2500 per day. Pricing can vary greatly by state/province and across the various regions of the country
Engineered Wood Fiber Surfacing	Priced from $38 - $58 per cubic yard. Pricing can vary greatly by state/province and across the various regions of the country
Poured in Place Rubber Surfacing	Priced not to exceed $20 per square foot. See separate price schedule
Playground Turf	Priced not to exceed $22 per square foot
Rubber Tile Surfacing	Priced not to exceed $24 per square foot

Community Build Layout & Supervision	Priced from $750 - $1000 per man day plus materials & equipment. Pricing can vary greatly by state/province and across the various regions of the country
Maintenance & Repairs	Priced from $60 - $75 per man hour plus materials & equipment. Pricing can vary greatly by state/province and across the various regions of the country
Bonding	Not to exceed 5% of billed amount

Notes:

1) All equipment to be installed in accordance with specifications by PlayPower factory-certified professional installers
2) Equipment shall be installed within four (4) weeks of product delivery, unless requested by agency to be delayed
3) Customer shall receive, unload and inspect goods upon arrival, noting any discrepancies on the Delivery Receipt prior to written acceptance of the shipment unless other arrangements have been made
4) Customer shall be responsible for providing a clear, level site and for coordinating the scheduling of all deliveries and installation
5) Site should permit installation equipment access. Purchaser shall be responsible for unknown conditions such as buried utilities, tree stumps, bedrock or any concealed materials or conditions that may result in additional costs
6) Equipment installation pricing excludes all site work and landscaping; removal of existing equipment; storage of goods prior to installation; and drainage provisions. Call local representative for an estimate for site services
7) Building Permits, if required, shall be charged at the provider's cost

PlayPower Equipment Volume Rebates:

PlayPower offers the following customer volumne rebate based on the calendar year:

$500,000 to $	1% Rebate
$1,000,000 to	2% Rebate
$1,500,000 a	3% Rebate

COUNCIL COMMUNICATION

CC #: 2252
File #: 0704-01

Title:	Del Stephenson Park Playground Structure Replacement Project - Contract Purchase Agreement
Contact:	Ken Peterson 916-746-1233 kjpeterson@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.3.

RECOMMENDATION TO COUNCIL

Staff recommends that City Council adopt a resolution to approve a contract purchase agreement (#3002392) with PlayPower LT Farmington C/O All About Play for $155,268.75 to remove and replace the Del Stephenson Park playground structure, and authorize the City Manager to execute the agreement on behalf of the City of Roseville.

BACKGROUND

The school-aged playground structure at Del Stephenson Park is more than 20 years old. The playground structure has reached the end of its useful life. During the planning process the Parks, Recreation & Libraries Department reached out to the local community for public feedback.

Public outreach included:

- A two-week write-in period seeking feedback on a proposed playground structure layout. The two week write-in period occurred in January 2022. Signs were posted onsite and information was shared via social media.
- Del Stephenson Park received one public comment.
- Staff felt that a second opportunity for public comment was warranted. A second two-week write-in period was conducted in April 2022.
- The second write-in period received: 1 new comment. The comment suggested adding fitness equipment at the playground site. In consideration of this comment, staff received several quotes and reviewed the sinking fund balance. Adding the fitness equipment exceeded the project budget and the sinking funds current balance could not support the new fitness improvements at this time. This project is being considered for a future date.

Staff recommends approval of a Contract Purchase Agreement (#3002382) with PlayPower LT Farmington, Inc. C/O All About Play for $155,268.75 to remove and replace the Del Stephenson Park playground structure with a new structure. The Contract Purchase Agreement piggybacks Sourcewell Contract #010521-LTS-4.

FISCAL IMPACT

A budget adjustment of $170,000 was approved for FY2022-23 by Council on July 6, 2022. The allocation was approved using sinking funds from the Highland Reserve North Community Facilities District No. 2 (Services District) (Fund 2107). Ongoing maintenance costs are provided for Del Stephenson Park through the Highland Reserve North Community Facilities District No. 2 (Services District) and is expected to remain unchanged. There will be no General Fund impact.

ENVIRONMENTAL REVIEW

The proposed project involves the replacement of existing playground structure and facilities. This activity is categorically exempt from CEQA as a Class 2 Exemption (State CEQA Guidelines Section 15302). The Exemption has been prepared and no further CEQA action is required.

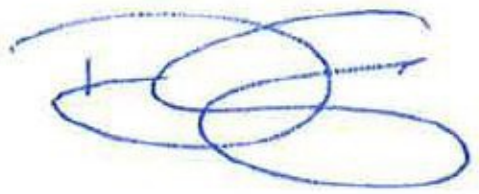
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal C - Maintain a safe and healthy community
Goal D - Enhance economic vitality
Goal E - Deliver exceptional city services
Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Ken Peterson, Park Development Project Manager

Jill Geller, Parks, Recreation & Libraries Director



_____
Dominick Casey, City Manager

ATTACHMENTS:

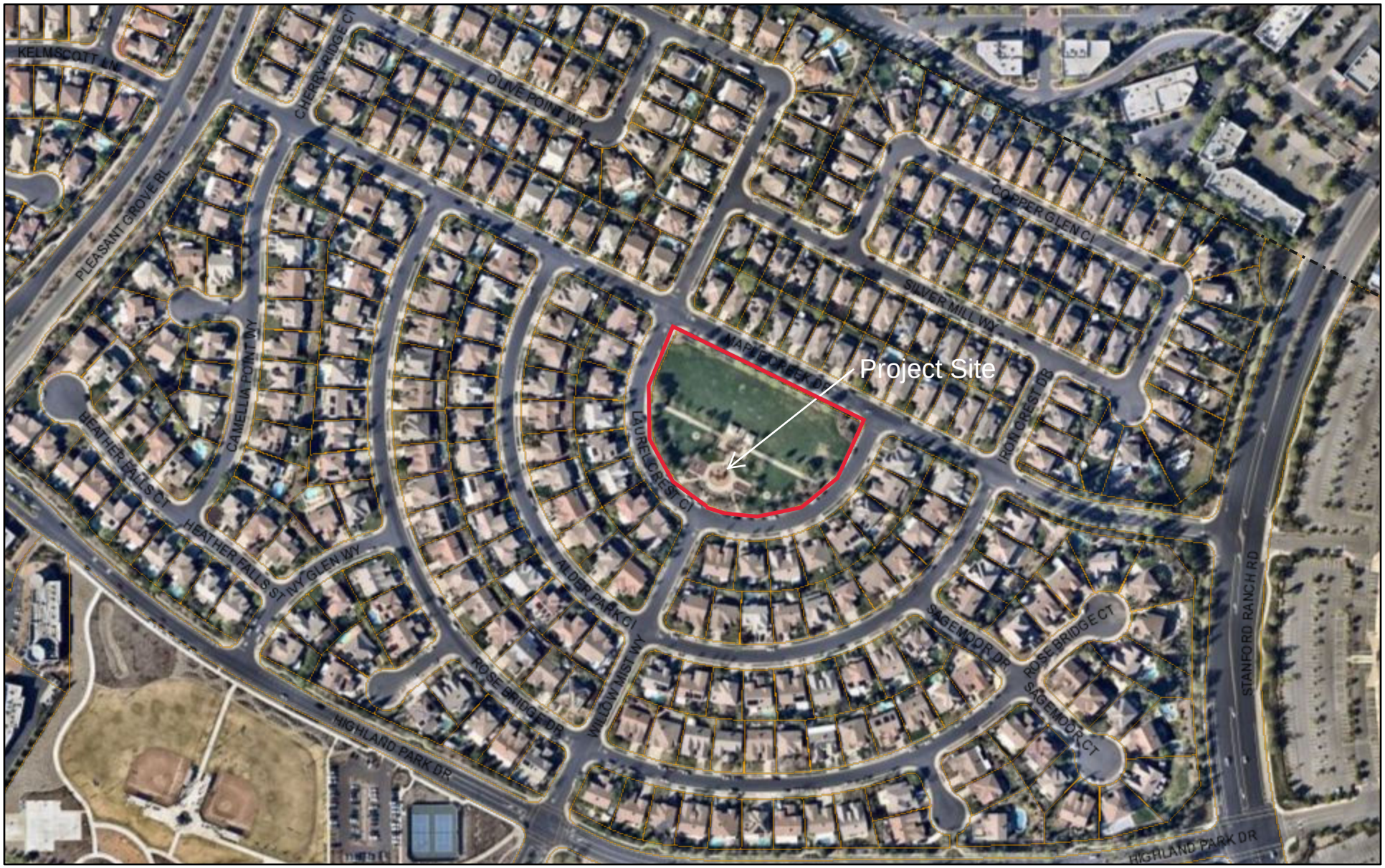
Description

Del Stephenson Park - Vicinity Map

Resolution 22-320

Del Stephenson Playground - CPA

Del Stephenson Park - Vicinity Map



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Copyright nearmap 2015, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Copyright: City of Roseville

Disclaimer: This map was prepared for general inquires only. The City is not liable for errors or omissions. Off icial informat ion should be obt ained f rom recorded or adopted City documents

RESOLUTION NO. 22-320

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WHEREAS, a contract purchase agreement (3002392), for the Del Stephenson Park Playground Structure Replacement Project, by and between the City of Roseville and PlayPower LT Farmington, Inc. c/o All About Play has been reviewed by the City Council.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said contract purchase agreement is 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 _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

CITY OF ROSEVILLE CALIFORNIA

Contract Purchase Agreement 3002392

Supplier Details:

Company	PlayPower LT Farmington Inc
Contact	Glen Wurster
Address	C/O All About Play
	3844 Presidio St
	Sacramento, CA 95838

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 3002392

Agreement	**3002392**
Agreement Date	**11-JUL-2022**
Revision	**0**
Agreement Amount	**155,268.75 USD**

Invoice To	**City of Roseville** **Accounts Payable** **311 Vernon St** **ROSEVILLE CA 95678**	Supplier	**PlayPower LT Farmington Inc** C/O All About Play 3844 Presidio St Sacramento, CA 95838
Phone:	(916) 774-5488	**Phone:**	(916) 923-2180
Fax:	(916) 784-3796	**Fax:**	()
Email:	accountspayable@roseville.ca.us	**Email:**	glen@playgroundpros.com

Description of Labor, equipment and/or materials

THE VENDOR SHALL PROVIDE AND INSTALL PLAYGROUND EQUIPMENT AT DEL STEPHENSON PARK FOR THE ROSEVILLE PARKS RECREATION AND LIBRARIES DEPARTMENT (PRL) IN ACCORDANCE WITH THE ATTACHED PLAYPOWER LT FARMINGTON C/O ALL ABOUT PLAY QUOTE DATED 7/9/2022 UTILIZING THE LITTLE TIKES COMMERCIAL EQUIPMENT - SOURCEWELL/ NJPA CONTRACT #010521-LTS.

START DATE: EXECUTED AGREEMENT
END DATE: UPON FINAL PAYMENT

CONTACT KEN PETERSON IN THE PRL DEPARTMENT AT (916) 746-1233 OR EMAIL KJPETERSON@ROSEVILLE.CA.US FOR QUESTIONS REGARDING THIS AGREEMENT.

Customer #	Supplier #	Payment Terms	Freight Terms	FOB	Shipping Method
	11284	**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 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.

21. 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.

22. 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.

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. _____

Contractor License No. _____

DIR Registration No. _____

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.
- 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:____
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	
PLAYPOWER LT FARMINGTON, INC.	
Signature:	
Print Name:	JEFF PRANGLEE
Title:	CUSTOMER SERVICES MANAGER

Supplier	
Signature:	
Print Name:	
Title:	

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

QUOTATION

PlayPower LT Farmington C/O

All About Play Inc
3844 Presidio Street, Sacramento, CA 95838
Phone: 916-923-2180 Fax: 916-646-6383
www.playgroundpros.com

TO:	City of Roseville Del Stephenson Park	**DATE:**	July 9, 2022
		BY:	Glen Wurster 916.923.2180 PH
CONTACT:	Ken Peterson		
PHONE:	916.746.1233		glen@playgroundpros.com
EMAIL:	kjpeterson@roseville.ca.us		
REFERENCE:	Youth Sports Theme Playground		

Little Tikes Commercial Equipment - Sourcewell/NJPA Contract #010521-LTS

	Qty	Description	Each		Total
MATERIALS:	1	KB20-71888 Kid Builder Base Playground	$110,978.39	$	110,978.39
		Customization for Del Stephenson Sports Theme	$ 15,151.85	$	15,151.85
DISCOUNT:		Sourcewell Discount	20%	$	(25,226.05)
	SUB TOTAL:			$	100,904.19
TAX:		Sales tax is an estimate final tax will be charged based on final shipping address	7.750%	$	7,820.07
FREIGHT:		Shipping cost of $5,600.00 covered by Sourcewell			No Charge
INSTALLATION:		Remove & dispose of existing playground Remove & dispose of existing PIP Remove & reinstall existing wood fiber Install new ADA ramp Install new youth sports theme playground Install new filter fabric and 40 cu.yd. of top off fiber Provide temporary construction fencing Final playground inspection by 3d party inspector		$	43,500.00
BONDS:		Payment and Performance Bonds		$	3,044.49
TOTAL:				**$**	**155,268.75**

Quote Good for 30 Days

Current lead time for custom playgrounds is 46 plus weeks for delivery.
Price increases or surcharges may be applied due to the volatility of steel and raw material cost.
Not Responsible for Underground Utilities, Obstructions or Permits of Any Kind.
Grass damage may occur during installation. We are not responsible for grass damage.

Please make purchase orders out to:
PlayPower LT Farmington C/O All About Play 3844 Presidio St., Sacramento, CA 95838

Remit All Payments To:
PlayPower LT Farmington PO Box 734155 Dallas, TX 75373-4155

I accept the terms and pricing listed on the above quotation:

Signature: _____ **Date:** _____

COUNCIL COMMUNICATION

CC #: 2245
File #: 0203-07

Title:	100kVA Distribution Transformers – Sole Source Purchase Order
Contact:	Ozro Corulli 916-774-5586 ocorulli@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.4.

RECOMMENDATION TO COUNCIL

Staff recommends City Council adopt a resolution to approve a sole source purchase order for fifty pad-mounted 100kVA single phase distribution transformers. In addition, staff requests authority for the City Manager or his designee to approve up to a ten percent (10%) contingency for unforeseen change orders.

BACKGROUND

Along with electric utilities nationwide, Roseville Electric Utility has been confronted with a shortage of electric utility transformers. This critical equipment is necessary to provide electric service to customers and support new residential and commercial development in Roseville. Roseville Electric Utility currently procures all needed distribution transformers through Mader Supply - representing Howard Industries. Mader Supply was the lowest responsive bidder to RFQ 10-3177 issued in 2018 and is currently in year 3 of 4 optional renewal years. Transformer manufacturers are struggling to get the specialized raw materials, including “core” steel used in transformer production. The shortage is exacerbated by competition for that same steel from the auto industry and labor shortages. Current lead times for single phase distribution transformers have risen over 400% and are projected to be 10-14 months after receipt of order, with no guaranteed delivery date.

Staff continues to seek additional vendors to meet the development and maintenance needs of the City including contacting all bidders from the original RFQ to receive new quotes. Staff has also expanded the search beyond domestic suppliers and is currently in the process of executing a sole source purchase of fifty transformers from KP Electric that was approved by City Council on July 20, 2022. To further diversify the City’s supply line, staff seeks approval for the sole source purchase of fifty transformers from the Hyundai Corporation, represented by Pacific Power Reps. The Hyundai quote is lower than Howard in both unit price and estimated lead time at 210 days. Purchasing these fifty transformers will help meet the City’s anticipated development and maintenance needs over the next three years.

FISCAL IMPACT

The estimated cost of the transformer purchases is $635,725 with a ten percent (10%) contingency ($63,572) for unforeseen inflated material and/or shipping costs for a total of $699,298. Funding is included in the Electric Fund budget for FY2022-23.

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 purchase order meets the above criteria and is not subject to CEQA. No additional environmental review is required.

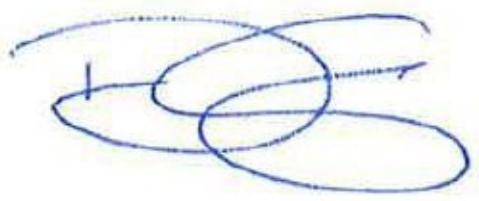
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal E - Deliver exceptional city services
Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Ozro Corulli, Senior Power Engineer

Dan Beans, Electric Utility Director



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 22-313

Hyundai Quote

RESOLUTION NO. 22-313

APPROVING A SOLE SOURCE PURCHASE ORDER FOR
100kVA DISTRIBUTION TRANSFORMERS

WHEREAS, a sole source purchase order with Hyundai Corporation, for 100kVA distribution transformers, has been reviewed by the City Council; and

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

BE IT FURTHER RESOLVED that the City Manager or his designee is authorized to approve change orders for the purchase, consistent with the contract terms, provided that the net cost of all change orders shall not exceed ten percent (10%) of the contract price.

PASSED AND ADOPTED by the Council of the City of Roseville this____day of _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

HYUNDAI corporation

21250 Hawthorne Blvd #775. Torrance, CA 90503
T: 424-254-2390 F: 424-254-2387
www.hyundaicorp.com

July 28, 2022

Our Ref. No. : SEE-220728-D010
Attention : Mr. Ozro "OJ" Corulli, PE, Sr. Power Engineer, Roseville Electric Utility.
From : Daniel Oh, Chief Manager, Hyundai Corporation USA
(Tel) 714-875-1375
(E-Mail) daniel.oh@hyundaicorp.com

Subject : Proposal for Roseville Electric Utility Project.

Hyundai Corporation (USA)'s Offer and Terms of Sale and Delivery of (100kVA) Pad-Mounted Transformer Units to Roseville Utilities

Dear Sir,

We are very pleased to make this offer ("Offer") to Roseville Electric Utility (Roseville Electric Utility, "Client") for the sale and delivery of Distribution Transformer units in accordance with the following material terms and conditions:

1. Items Included

Total of (1) types of transformer units manufactured by SANIL Electric, Co. Ltd ("Manufacturer").

2. Manufacturer

SANIL Electric., Co. LTD.

3. Offer Validity

Within Sixty (60) days from the date of this Offer.

4. Terms of Delivery

25 to 30 weeks after Hyundai's receipt of the Client's Purchase Order ("PO").

The delivery date to be adjusted upon the specific quantity of order. Also, the delivery date is subject to change without additional costs or liability to Hyundai. However, Hyundai shall promptly notify the Client of any delay in delivery and Hyundai shall used its best efforts to deliver the Goods by the originally planned delivery date.

Incoterms: F.O.B. Roseville Electric Utility's Job Site

5. Terms of Payment

Roseville Electric Utility shall make incremental payment of the Purchase Price to Hyundai upon the occurrence of specified milestone events. Payment shall be due within 30 days after Roseville Electric Utility's receipt of invoice issued by Hyundai.

6. Country of Origin

The Goods shall be manufactured in and sent from the Republic of Korea.

7. Purchase Price Detail

Reference Code	Item & Decription	Quantity	Unit Price		Extended Price	
			Unit Price	Freight	Ext. Price	Include Freight
M261509	TRANSFORMER, SINGLE-PHASE, PADMOUNT 12000/20780GrdY-240/120V 100kVA KNAN	50	$11,000	$800	$550,000	$590,000

8. Scope of Work

Purchase Price includes the cost of design, factory acceptance test (FAT), packing and transportation to Roseville Electric Utility's job site

Delivery Term: DDP. Roseville, CA, USA (INCOTERMS 2010)

9. Out of Scope

Hyundai shall not be responsible for the following: (i) off-loading at Jobsite; (ii) site assembly; and/or (iii) on-site testing.

10. Title & Risk of Loss

Only when Roseville Utilities makes full payment of the Purchase Price to Hyundai shall title to the Goods vest in Roseville Electric Utility. Until such time as full payment of the Purchase Price is made, title to the Goods shall remain with Hyundai. Risk of loss shall transfer from Hyundai to Roseville Electric Utility pursuant to agreed-upon and applicable Incoterms.

11. Warranty

This warranty for the Goods shall be in accordance with and limited to the warranty terms and obligations as provided for the Goods by the Manufacturer, including those stated in the end-user manual and instructions, and shall be valid and applicable for a period of sixty (60) months from the date of delivery completion of the Goods.

This warranty shall not apply to: (i) any defects caused, induced, produced, and/or generated by damage from unreasonable or unintended use (accident, fire or other casualties, misuse, negligence, incorrect wiring); (ii) any use or installation not in conformance with written instructions and/or directions provided by Hyundai and/or Manufacturer; (iii) any defects occurring because of unauthorized modifications to the Goods not authorized in writing by Hyundai, (iv) any defects to the Goods attributable to or arising out of improper storage or handling of the Goods after final delivery by Hyundai at the point of delivery; and/or (v) any deficiency attributable to normal wear and tear.

The warranties set out herein are exclusive of and in lieu of all other warranties, representations or conditions, express or implied, either in fact or by operation of law, statutory or otherwise, including warranties of merchantability or fitness for a particular purpose.

Hyundai's responsibility for labor and materials does not include the cost of replacing or removing parts, equipment, or structures not provided herein.

12. Limitation of Liability

The total liability of Hyundai to Roseville Electric Utility for any damages or claims arising out of the sale and delivery of Goods, from any cause whatsoever (including but not limited to, breach of contract, negligence, tort, indemnity, product liability, strict liability, and/or otherwise) arising out of the performance of Hyundai's obligations, or Roseville Electric Utility's use of the Goods, will not exceed 100% of the total Purchase Price.

In no event shall Hyundai be liable to Roseville Electric Utility for any losses or damages for economic loss, loss of use, loss of goodwill, loss of revenues, loss of profit, or for any indirect, consequential, incidental, or punitive damage or losses, whether such damages are in contract, tort, or otherwise.

13. Cancellation Charges

In the event that Roseville Electric Utility cancels the Purchase Order, in whole or in part, then Roseville Electric Utility will be subject to payment of a cancellation charge to Hyundai, which is not

a penalty and is intended to reasonably compensate Hyundai for costs and losses incurred and/or damages to Hyundai resulting from Roseville Electric Utility's cancellation.

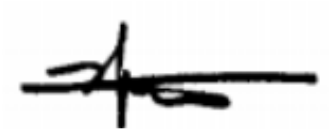
The cancellation charges below are presented as a percentage of the Purchase Price.
1) Cancellation within 1 week after PO receipt - 5% of the Purchase Price
2) Cancellation after drawing submission - 20% of the Purchase Price
3) Cancellation 2 weeks after procurement start date - 35% of the Purchase Price
4) Cancellation 4 weeks after procurement start date - 50% of the Purchase Price
5) In the event of a cancellation where manufacturing and assembly have already begun, charges will be based upon the percentage of completion, but shall not be less than 50% of the Purchase Price

14. Miscellaneous

All other contractual terms not otherwise specified herein shall be set forth in the Purchase Order issued by Roseville Electric Utility. The PO and this Offer and any Annexes hereto shall, taken together, constitute one and the same integrated instrument.

To the extent there exists any conflicting or contradicting term in this Offer and Roseville Electric Utility's Purchase Order, the terms of this Offer shall prevail.

Sincerely yours,



Hancheol Kang, President
Hyundai Corporation USA

COUNCIL COMMUNICATION

CC #: 2250
File #: 0900-03

Title:	Industrial Substation Switchgear #1 Replacement Civil Construction - Award of Contract
Contact:	Austin Kurth 916-774-5661 akurth@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.5.

RECOMMENDATION TO COUNCIL

Staff recommends that City Council adopt a resolution to approve an agreement with Interstate Construction, Inc. for construction of the Industrial Substation Switchgear #1 Replacement Civil Construction project and authorize the City Manager to execute it. In addition, staff requests authority to approve change orders up to ten percent (10%) of the contract amount.

BACKGROUND

The construction work at Industrial Substation is required for the replacement of the existing switchgear that has reached its end of life. Replacement of this equipment is necessary to maintain system reliability.

City Council approved the plans and specifications and authorized the call for bids at the May 18, 2022 meeting. Subsequently, Roseville Electric solicited proposals through Request for Quotations No. 07-083 Industrial Substation Switchgear #1 Replacement Civil Construction project, seeking a contractor to provide the necessary construction services. Staff received two bids which were opened on June 20, 2022. After staff review of the proposals, Interstate Construction, Inc. was determined to be the lowest responsive bidder.

FISCAL IMPACT

The fiscal impact of the Agreement with Interstate Construction, Inc. is $179,880 with a 10%, or $17,988, contingency, for a total not-to-exceed amount of $197,868. Funds are available in the Electric Fund FY2022-23 budget.

ENVIRONMENTAL REVIEW

The proposed work of the Industrial Substation Switchgear #1 Replacement project involves the replacement of existing structures and facilities. This activity is categorically exempt from CEQA

as a Class 2 Exemption (State CEQA Guidelines Section 15302). The Exemption has been prepared and no further CEQA action is required.

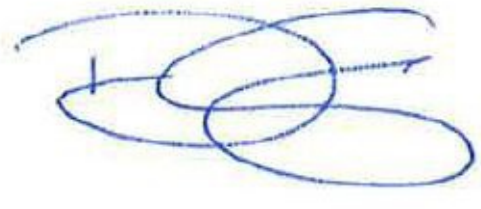
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal E - Deliver exceptional city services
Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Austin Kurth, Power Engineer

Dan Beans, Electric Utility Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 22-318

Interstate Construction Signed Contract

Bid Summary Sheet

RESOLUTION NO. 22-318

APPROVING AN AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND INTERSTATE CONSTRUCTION, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, an Agreement regarding the Industrial Substation Switchgear #1 Replacement Civil Construction Project, by and between the City of Roseville and Interstate Construction, Inc., has been reviewed by the City 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.

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 contract price.

PASSED AND ADOPTED by the Council of the City of Roseville this____day of _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

AGREEMENT

THIS AGREEMENT, is made and entered into this _____day of _____, 20_____, by and between the City of Roseville, a municipal corporation, ("CITY"), and Interstate Construction, Inc, a Corporation, ("CONTRACTOR"); and

WITNESSETH:

WHEREAS, the City Council of the CITY, at a meeting held on the 18th day of May, 2022, approved plans and specifications for the Industrial Substation Switchgear #1 Replacement Civil Construction and directed the City Clerk to advertise for sealed proposals for doing said work and providing that bids be submitted on the 20th day of June, 2022; 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 Industrial Substation Switchgear #1 Replacement Civil Construction 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 One hundred Seventy-Nine Thousand Eight Hundred Eighty dollars ($179,880.00) 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 standard construction specifications, 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 $ 500 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 125 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
Austin Kurth	Robert Riedel
2090 Hilltop Circle	9245 Sierra College Blvd., Suite 150
Roseville, CA 95747	Roseville, CA 95661
Fax: 916-784-3797	Fax: 916-357-5480

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

Interstate Construction, Inc, a a California Corporation

BY: _____
its: Robert Riedel, President

and

ATTEST:

BY: _____
its: Dean Wilkie, Secretary Treasurer

BY: _____
CARMEN AVALOS
City Clerk

APPROVED AS TO FORM:

BY: _____
MICHELLE SHEIDENBERGER
City Attorney

APPROVED AS TO SUBSTANCE:

BY: _____

Print Name: Dan Beans P.E.

Title: Electric Utility Director

RFQ # 07-083

DATE: June 20, 2022

TIME: 3:00 PM

BID BOND REQUIRED: Yes

BID SUMMARY SHEET

BID OPENING FOR:

Industrial Substation Switchgear #1 Replacement Civil Construction

CITY OF ROSEVILLE CALIFORNIA

Bidders Name City, State	Addendum 1	Bid Bond	Grand Total
Accelerated Construction Turlock, CA	✓	✓	$182,922.00
Interstate Construction, Inc. Roseville, CA 95661	✓	✓	$179,880.00

Please Sign-In

Staff	*Visitors (Name & Company)*	*Visitors (Name & Company)*
Jonathan Levy		
Katrina Six		
Vince Bottoni		
Austin Kurth		

COUNCIL COMMUNICATION

CC #: 2266
File #: 0800-03

Title:	Water Demineralization and Softening Trailers Supply - Contract Purchase Agreement
Contact:	Matt Garner 916-746-1691 mgarner@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.6.

RECOMMENDATION TO COUNCIL

Staff recommends City Council adopt a resolution authorizing the City Manager to execute contract purchase agreement (3002354) with Suez WTS Services USA Inc. to provide water demineralization and softening trailers on an as-needed basis for Roseville Electric owned and/or operated generation facilities.

BACKGROUND

Roseville Electric owns and/or operates three power generation facilities. Each of these facilities requires the use of demineralized and softened water for such things as steam production, emissions control, process cooling and power augmentation. Trailer mounted water purifying systems are a cost effective way to back up installed systems during routine maintenance or repair evolutions. They also serve as an effective means for supplying high quality water for units designed without permanent water treatment systems installed.

Roseville Electric investigated water filtration and treatment trailer suppliers and found that Suez WTS Services USA Inc. was the only company whose trailers come with a comprehensive water quality monitoring and notification software package. The Suez InSight software is a trademarked package that constantly monitors feedwater quality and effluent quality, then calculates remaining trailer capacity. The software regularly communicates with Suez wirelessly to facilitate trailer replacement thereby ensuring a constant supply of water with minimal operator involvement.

FISCAL IMPACT

This multi-year contract purchase agreement will be for a period of four years. Total costs are not to exceed $800,000 based on an assumed average cost of $200,000 per year. Funding is included in the Electric Generation budget in the Electric Fund for FY2022-23 and will continue to be included in future year budgets for the term of the agreement.

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 contract purchase agreement meets the above criteria and is not subject to CEQA. No additional environmental review is required.

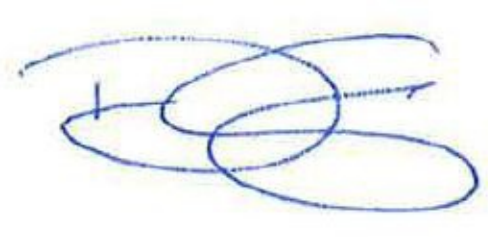
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal E - Deliver exceptional city services
Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Matt Garner, Power Generation Superintendent

Daniel Beans, Electric Utility Director



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 22-328

Suez WTS Services USA - CPA3002354

RESOLUTION NO. 22-328

APPROVING A CONTRACT PURCHASE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND SUEZ WTS SERVICES USA INC. AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a contract purchase agreement (3002354), for water demineralization and softening trailers for Roseville Electric owned or operated generation facilities, by and between the City of Roseville and Suez WTS Services USA Inc., has been reviewed by the City Council.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said contract purchase agreement is 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 _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

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Contract Purchase Agreement 3002354

Supplier Details:

Company	Suez WTS Services USA Inc
Contact	Joe Lamberty
Address	3734-B Imperial Way
	Stockton, CA 95215

Submit your response to:

Company	City of Roseville
Contact	"Becky" Rebecca Philipp
Address	Purchasing Division
	2075 Hilltop Circle
	Roseville, CA 95747
Phone	(916) 774-5724
Fax	(916) 774-5736
E-mail	BPhilipp@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.

Contract Purchase Agreement 3002354

Agreement	**3002354**
Agreement Date	**23-JUN-2022**
Revision	**0**
Agreement Amount	**800,000.00 USD**

Invoice To
City of Roseville
Accounts Payable
311 Vernon St
ROSEVILLE CA 95678
Phone: (916) 774-5488
Fax: (916) 784-3796
Email: accountspayable@roseville.ca.us

Supplier
Suez WTS Services USA Inc
3734-B Imperial Way
Stockton, CA 95215
Phone: ()
Fax: ()
Email: joseph.lamberty@suez.com

Description of Labor, equipment and/or materials

VENDOR WILL PROVIDE WATER DEMINERALIZATION AND SOFTENING TRAILERS ON AN AS-NEEDED BASIS IN ACCORDANCE WITH THE ATTACHED SUEZ WTS SERVICES USA, INC. PROPOSAL 475721AMC, REV4, DATED 6/21/22 UTILIZING THE CITY OF ROSEVILLE NEGOTIATED TERMS AND CONDITIONS DATED 3/26/18 AND INCORPORATING BY REFERENCE CITY OF ROSEVILLE - GE MOBILE WATER, INC. AMENDMENT FOR TERMS AND CONDITIONS - DECEMBER 12, 2012 MODIFIED MARCH 8, 2017 FOR GE NAME CHANGE TO SUEZ WTS SERVICES USA, INC.

START DATE: UPON EXECUTED
END DATE: 8/17/26

Please contact Tony Johnson at (916) 746-1656 or ajohnson@roseville.ca.us for questions regarding this contract.

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

Customer #	Supplier #	Payment Terms	Freight Terms	FOB	Shipping Method
	13180	**Net 30**	**Freight on Board at the destination**	**Destination**	**Best Method**

Start Date	End Date	Confirm To
		"Becky" Rebecca Philipp Phone **1-916-774-5724**

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

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ATTACHMENT A
HUMAN RESOURCES/RISK MANAGEMENT DIVISION
INSURANCE REQUIREMENTS
AGREEMENT UNDER FORMAL BID LIMIT

General - Required Coverage:

- 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

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

Construction:____
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

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

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

Insurance Verification
By signing the agreement included with this document, you are confirming that your company has the minimum insurance limits required above.

A copy of your insurance certificate is not required at this time. The City may request proof of insurance at any time.

Questions Regarding Insurance Requirements Contact Risk Management at (916) 774-5202

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Supplier	
Signature:	DocuSigned by: Eric Tate 02150D9DE4DF47A...
Print Name:	Eric Tate
Title:	Senior Engineering Manager

Supplier	
Signature:	DocuSigned by: Michael W. Sylstra 585382C6A094480...
Print Name:	Michael W. Sylstra
Title:	Lead Commercial Proposals Manager

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

DocuSign Envelope ID: ECA7877E-74C0-47CA-B65E-86EF5C8B309A

DELEGATION OF SIGNATURE AUTHORITY BY OFFICER

BY THIS DELEGATION OF SIGNATURE AUTHORITY, I, as Vice President - Engineered Systems, of SUEZ WTS International USA, Inc.; SUEZ WTS Analytical Instruments, Inc.; SUEZ WTS Systems USA, Inc.; and SUEZ WTS Solutions USA, Inc. (hereinafter collectively referred to as "SUEZ WTS") with the delegable authority granted by the Board of Directors to sign contracts in the name of SUEZ WTS as set forth in the Annual Actions Resolutions of SUEZ WTS, hereby revoke any previously granted delegations issued by me and delegate to the below named individuals, effective January 1, 2022:

Jessica ATTANASIO
Michael BENSON
David BINGHAM
Greg BRICKETT
Joseph BRUCE
Michael CONE
Thomas COSGRAVE
Pedro DACRUZ
Edana ESSA
Jane Urbanic
James Foreman
Heather Millar
Branden GARRETT
William GILL
Richard GRAY
Miloud HASSENE
William HEINS
B. Jayson HENRY
Ryan HESS
Paul HOWLAND
Michael HRIBLJAN
Christopher JANSEN
Paul JOSEPHSON
Diane KUN
Debora LOUNSBERRY
Chris LOW
Melanie MAILLY-DEMONT
Jason MONGRAIN
Dewey PINNOCK
Louise RAYMOND
David ROSSER
Eric SAVAGE
Dhaval SHAH
Stephanie SNYDER
Michael SYLSTRA
Eric TATE
Joseph TIETJENS
Frank TROCINO
Nishith VORA
Graeme YOUNG

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A. the authority to exercise my approval authority with regard to commercial operations under the Annual Actions Board Resolutions and SUEZ Water Technologies & Solutions Global Operating Policy, subject to the prior approvals obtained via the SUEZ Delegation of Authority Policy;

B. the authority to sign on behalf of SUEZ WTS those certain agreements within my authority as Vice President, subject to the prior approvals obtained via the SUEZ Delegation of Authority Policy; and

C. the authority to sell goods and/or services to SUEZ WTS customers on standard terms and conditions.

Such delegation includes but is not limited to the delegated authority to sign all contractual instruments, certificates, documents, acknowledgments, consents, and other agreements as may be necessary or convenient in order to carry out the intent and purpose of the foregoing authority.

EXCEPT THAT THIS DELEGATION DOES NOT INCLUDE THE AUTHORITY TO:

1. Modify corporate insurance policies
2. Transfer intellectual property to a customer
3. Enter into joint ventures or partnerships
4. Provide advance payments to customers
5. Provide commissions to agents other than approved distributors
6. Provide deferred revenue
7. Buy back inventory
8. Engage in a Tiering arrangement

Nothing in this Delegation of Signature Authority alters any applicable Corporation review and approval requirements for the above-listed documents, including but not limited the SUEZ Water Technologies & Solutions Global Operating Policy. The Delegation of Signature Authority conferred hereby shall NOT be further delegable.

This Delegation of Signature Authority is valid until 31 December 2022.

This Delegation of Signature Authority supersedes all previously issued delegations including but not limited to the delegation acknowledged by legal on January 27, 2022.

IN WITNESS, WHEREOF, I, as Vice President of SUEZ WTS, have caused my signature to be hereunto placed on February 5, 2022.

DocuSigned by:
Thomas Buer
E34707C2E294426...

Name: Thomas Buer
Title: Vice President – General Manager, Engineered Systems

Acknowledged by Legal Dept.:

DocuSigned by:
Krystina Hamilton
895B6DFGBA4C420...

Date: 2022 February 14

Acknowledged by Delegee:

DocuSigned by:
Eric Tate
02150D9DE4DF47A...

Date: 6/30/2022

DocuSign Envelope ID: ECA7877E-74C0-47CA-B65E-86EF5C8B309A

DELEGATION OF SIGNATURE AUTHORITY BY OFFICER

BY THIS DELEGATION OF SIGNATURE AUTHORITY, I, as Vice President - Engineered Systems, of SUEZ WTS International USA, Inc.; SUEZ WTS Analytical Instruments, Inc.; SUEZ WTS Systems USA, Inc.; and SUEZ WTS Solutions USA, Inc. (hereinafter collectively referred to as "SUEZ WTS") with the delegable authority granted by the Board of Directors to sign contracts in the name of SUEZ WTS as set forth in the Annual Actions Resolutions of SUEZ WTS, hereby revoke any previously granted delegations issued by me and delegate to the below named individuals, effective January 1, 2022:

Jessica ATTANASIO
Michael BENSON
David BINGHAM
Greg BRICKETT
Joseph BRUCE
Michael CONE
Thomas COSGRAVE
Pedro DACRUZ
Edana ESSA
Jane Urbanic
James Foreman
Heather Millar
Branden GARRETT
William GILL
Richard GRAY
Miloud HASSENE
William HEINS
B. Jayson HENRY
Ryan HESS
Paul HOWLAND
Michael HRIBLJAN
Christopher JANSEN
Paul JOSEPHSON
Diane KUN
Debora LOUNSBERRY
Chris LOW
Melanie MAILLY-DEMONT
Jason MONGRAIN
Dewey PINNOCK
Louise RAYMOND
David ROSSER
Eric SAVAGE
Dhaval SHAH
Stephanie SNYDER
Michael SYLSTRA
Eric TATE
Joseph TIETJENS
Frank TROCINO
Nishith VORA
Graeme YOUNG

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A. the authority to exercise my approval authority with regard to commercial operations under the Annual Actions Board Resolutions and SUEZ Water Technologies & Solutions Global Operating Policy, subject to the prior approvals obtained via the SUEZ Delegation of Authority Policy;

B. the authority to sign on behalf of SUEZ WTS those certain agreements within my authority as Vice President, subject to the prior approvals obtained via the SUEZ Delegation of Authority Policy; and

C. the authority to sell goods and/or services to SUEZ WTS customers on standard terms and conditions.

Such delegation includes but is not limited to the delegated authority to sign all contractual instruments, certificates, documents, acknowledgments, consents, and other agreements as may be necessary or convenient in order to carry out the intent and purpose of the foregoing authority.

EXCEPT THAT THIS DELEGATION DOES NOT INCLUDE THE AUTHORITY TO:

1. Modify corporate insurance policies
2. Transfer intellectual property to a customer
3. Enter into joint ventures or partnerships
4. Provide advance payments to customers
5. Provide commissions to agents other than approved distributors
6. Provide deferred revenue
7. Buy back inventory
8. Engage in a Tiering arrangement

Nothing in this Delegation of Signature Authority alters any applicable Corporation review and approval requirements for the above-listed documents, including but not limited the SUEZ Water Technologies & Solutions Global Operating Policy. The Delegation of Signature Authority conferred hereby shall NOT be further delegable.

This Delegation of Signature Authority is valid until 31 December 2022.

This Delegation of Signature Authority supersedes all previously issued delegations including but not limited to the delegation acknowledged by legal on January 27, 2022.

IN WITNESS, WHEREOF, I, as Vice President of SUEZ WTS, have caused my signature to be hereunto placed on February 5, 2022.

DocuSigned by:
Thomas Buer
E34707C2E294426...

Name: Thomas Buer
Title: Vice President – General Manager, Engineered Systems

Acknowledged by Legal Dept.:

DocuSigned by:
Krystina Hamilton
895B6DFGBA4C420...

Date: 2022 February 14

Acknowledged by Delegee:

DocuSigned by:
Michael W. Sylstra
585382C5A994489...

Date: 6/30/2022

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1. To the fullest extent allowed by law, Contractor shall defend, indemnify, and save and hold harmless 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 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 either party has the right to terminate this Agreement provided Contractor is given a thirty (30) day notice.
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 fair employment practices must be adhered to.

10a. 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.

10b. 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.

10c. Additional Insureds. Contractor shall also provide a separate endorsement or section of the policy showing City, its officers, agents, employees, and volunteers as additional insured to the extent of Contractor's indemnity obligations herein for each type of coverage, except for Workers' Compensation. 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. Contractor agrees to extend its existing general liability insurance coverage to City, but only in respect of work performed by or on behalf of the named insured, Contractor, and only to the extent that the additional insured is held liable for the negligence or other culpability of the Contractor. Coverage under Contractor's policy does not extend to liability arising out of the additional insured's own active or sole negligence. 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.

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

10e. 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.

10f. 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.

10g. 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.

10h. 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 worked performed by Contractor, its employees, agents and subcontractors to the extent of Contractor's indemnity obligations herein, however such waiver of subrogation shall not apply to the extent of active or sole negligence of the City.

10i. 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.

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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 Service Agreement, the terms of this Service 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.

City reserves the right to withhold any payments to Contractor in the event of noncompliance with insurance requirements or if required by law.

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City of Roseville- GE Mobile Water, Inc. Amendment for Terms & Conditions- December 12, 2012
Modified March 8, 2017 for GE name change to SUEZ WTS Services USA, Inc.

14. SUEZ WTS Services USA, Inc. SERVICES- When Customer has fully complied with Paragraph 15 below, SUEZ WTS Services USA, Inc. shall:

- Treat Customer's influent water or other fluids ("Influent Water") to the quality specified in the Influent Water Quality table.
- Use its best efforts, at all times, to provide the Equipment.

15. CUSTOMER'S RESPONSIBILITIES- As a condition precedent to SUEZ WTS Services USA, Inc.'s providing the Service, Customer shall, without cost to SUEZ WTS Services USA, Inc. throughout the Agreement term:

a. Provide a location at Customer's facilities, suitable for proper operation of the Equipment.

b. Provide piping, fire hoses, fittings, electricity and other specified equipment and services, as required.

c. Provide Influent Water of the quality described in the Influent Water Quality table, at the pressure and at the flow rate required by SUEZ WTS Services USA, Inc..

d. Provide reasonable access to and security for the Equipment.

e. Provide all necessary utilities to operate the Equipment.

f. Secure any necessary licenses or permits required for the installation and operation of the Equipment required for the Service.

16. WATER QUALITY WARRANTY

Effluent Water quality shall meet or exceed the specifications in the Effluent Water Quality table. Any Effluent Water not meeting these specifications shall be replaced or reprocessed at no additional cost to Customer, however, if replacement or reprocessing is not practical then Contractor shall adjust Customer bill appropriately unless the failure is caused by the acts or omissions of Customer, including but not limited to Customer’s failure to provide the required Influent Water.

SUEZ WTS Services USA, Inc. warrants that the Equipment is capable of processing the Influent Water, described in the Influent Water Quality table to meet the specifications for Effluent Water in the Effluent Water Quality table. SUEZ WTS Services USA, Inc. does not warrant the USE of the Effluent Water and, accordingly, such replacement , reprocessing or appropriate billing adjustment shall be the Customer's sole and exclusive remedy SUEZ WTS Services USA, Inc. further warrants that Services will be performed in a good and workmanlike manner and will comply in all material respects with the requirements set forth in this Agreement. Customer shall notify SUEZ WTS Services USA, Inc. of any warranty claim within thirty (30) days of the claimed item’s delivery. Effluent Water processed for Customer is not intended, or suitable, for human consumption.

EXCEPT AS EXPRESSLY SET FORTH IN THIS PARAGRAPH, SUEZ WTS SERVICES USA, INC. MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR OF FITNESS OF USE OR FOR THE PURPOSE INTENDED.

17. NO TITLE TO WATER

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At no time shall SUEZ WTS Services USA, Inc. be deemed to have taken title to Product Water, Feedwater, Nonstandard Substances (“Nonstandard Substances” shall mean substances or materials which are not specifically identified in the Influent Water Quality Window of in the Influent Water Quality table set forth herein or which were not or could not be reasonably anticipated by SUEZ WTS Services USA, Inc. as being a component of the Influent Feedwater), Hazardous Materials ("Hazardous Materials" shall mean toxic substances, hazardous substances, pollutants, contaminants, regulated wastes, or hazardous wastes as such terms may be defined or classified in any statute or ordinance or regulations promulgated by any national, federal, state, provincial, or local governmental authority), or any other materials or substances processed at the site or treated by SUEZ WTS Services USA, Inc. pursuant to this Agreement. SUEZ WTS Services USA, Inc. does not take responsibility for or provide waste characterization, disposal facility selection, disposal, or payment of sewage or landfill fees. Customer is responsible for all wastes and waste disposal from the plant. Wastes may include, but are not limited to, water system reject waste, used RO membranes, filters, CIP related wastes and wastewaters, spent media, cartridge filters, equipment and consumables, lube/oil contaminated debris/rags, other maintenance related wastes, lab analysis residuals, and office waste. Customer is required to obtain SUEZ WTS Services USA, Inc.’s written approval prior to any changes in reject disposal or use, or waste disposal methods or configuration being made.

18. LIMITATION OF LIABILITY

NOTWITHSTANDING ANYTHING ELSE IN THIS AGREEMENT, EXCEPT FOR BODILY INJURY, DEATH, AND DAMAGE TO PROPERTY OF THIRD PARTIES, THE TOTAL LIABILITY OF SUEZ WTS SERVICES USA, INC., its affiliates and subcontractors and their employees, officers, directors and agents, ON ALL CLAIMS OF ANY KIND ACCRUING DURING ANY CALENDAR YEAR, WHETHER IN CONTRACT (INCLUDING LIQUIDATED DAMAGES), WARRANTY, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, OR OTHERWISE, ARISING OUT OF THE PERFORMANCE OR BREACH OF THIS AGREEMENT OR THE USE OF ANY PARTS OR THE PROVISION OF ANY SERVICES, SHALL NOT EXCEED THE ANNUAL REVENUE OF THE AMOUNTS PAID BY CUSTOMER TO SUEZ WTS SERVICES USA, INC. IN ANY CALENDAR YEAR, AND IN NO EVENT SHALL THE CUMULATIVE TOTAL LIABILITY OF SUEZ WTS SERVICES USA, INC. IN ALL SUCH CLAIMS OF ANY KIND ARISING FROM OR RELATING TO THIS AGREEMENT, UNTIL THE TIME ALL SUCH LIABILITY ENDS, EXCEED AMOUNTS PAID BY CUSTOMER TO SUEZ WTS SERVICES USA, INC. UNDER THIS AGREEMENT.

IN NO EVENT, WHETHER AS A RESULT OF BREACH OF CONTRACT, WARRANTY, INDEMNITY, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, OR OTHERWISE, SHALL SUEZ WTS SERVICES USA, INC. BE LIABLE FOR LOSS OF PROFIT OR REVENUES, LOSS OF USE OF THE SITE OR ANY ASSOCIATED EQUIPMENT OR SYSTEMS, COST OF CAPITAL, COST OF SUBSTITUTE EQUIPMENT, FACILITIES, SERVICES OR REPLACEMENT POWER, DOWNTIME COSTS, CLAIMS OF CUSTOMER'S CUSTOMERS FOR SUCH DAMAGES, OR FOR ANY CONSEQUENTIAL, INCIDENTAL, INDIRECT, PUNITIVE OR EXEMPLARY DAMAGES.

IF SUEZ WTS SERVICES USA, INC. FURNISHES CUSTOMER WITH ADVICE OR ASSISTANCE CONCERNING ANY PRODUCTS, SYSTEMS OR WORK WHICH IS NOT REQUIREDPURSUANT TO THIS AGREEMENT, THE FURNISHING OF SUCH ADVICE OR ASSISTANCE WILL NOT SUBJECT SUEZ WTS SERVICES USA, INC. TO ANY LIABILITY, WHETHER IN CONTRACT, WARRANTY, INDEMNITY, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE.

19. USE OF EQUIPMENT

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Although the equipment will be utilized at the site, Customer acknowledges that SUEZ WTS Services USA, Inc. shall retain beneficial ownership of the equipment and any other SUEZ WTS Services USA, Inc. supplied parts, equipment, inventory, supplies and other assets utilized by SUEZ WTS Services USA, Inc., or loaned or made available to Customer at the site. Upon expiration or termination of this Agreement SUEZ WTS Services USA, Inc. shall have the right to disconnect and remove the equipment, parts or assets installed or utilized by SUEZ WTS Services USA, Inc. pursuant to this Agreement.

Customer acknowledges that SUEZ WTS Services USA, Inc.'s equipment is designed for specific applications and processes and therefore may not be relocated, modified, altered or changed in any way without the expressed, written consent of the SUEZ WTS Services USA, Inc.. Customer is responsible for any loss or damage to SUEZ WTS Services USA, Inc.'s equipment including but not limited to, theft, physical damage, operational impairment caused by lack of proper maintenance or operation outside manufacturer's or SUEZ WTS Services USA, Inc.'s operating specifications, and deterioration or contamination from exposure to fumes or substances. If Customer contaminates equipment, then Customer shall be solely responsible for any and all costs to test, decontaminate or dispose of and replace any of SUEZ WTS Services USA, Inc.'s equipment or ion exchange resins contaminated by exposure to any process or application containing any Federal, DOT, or State listed hazardous waste or a characteristic hazardous waste. Upon request Customer shall certify to SUEZ WTS Services USA, Inc., by means of a completed and signed Resin Process Profile form, the conditions under which all ion exchange resins will be operated. Customer shall not remove the equipment from Customer 's location designated in the Agreement and shall not sublease or lend the equipment or otherwise attempt to transfer or dispose of the equipment or any rights in or to the equipment. Before moving any equipment, Customer must notify and get SUEZ WTS Services USA, Inc.'s permission.

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Roseville Energy Park

CITY OF ROSEVILLE CALIFORNIA
5120 PHILLIP RD
ROSEVILLE, CA 95747-9116

06/21/2022

For the Attention of: Matt Garner
Our Reference: 475721

Dear Matt,

SUEZ Water Technologies & Solutions is pleased to provide CITY OF ROSEVILLE CALIFORNIA with the attached proposal for the Roseville Energy Center project in ROSEVILLE, CA United States. In developing this quotation, SUEZ worked with CITY OF ROSEVILLE CALIFORNIA in an effort to understand your project and business needs. The attached proposal outlines the solution we feel will best meet these objectives.

We greatly appreciate your consideration of SUEZ for this project. Our measure of success is how well we deliver solutions that help our customers meet their critical business objectives. We hope to have the opportunity to demonstrate this with CITY OF ROSEVILLE CALIFORNIA.

I will be calling you to discuss our proposal and provide any additional information that may help your evaluation. Until then, please contact me if you have any questions.

Yours sincerely,

Joe Lamberty
Regional Account Manager
SUEZ Water Technologies & Solutions
M: +1 925 872 0948
E: joseph.lamberty@suez.com
W: https://www.suezwatertechnologies.com
24-Hour Emergency Mobile Water 800-446-8004

cc: Angelica Couso Armas

Unless expressly agreed otherwise in writing, all our proposals, sales and order confirmation are subject Appendix C agreed upon terms.

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Proposal for

CITY OF ROSEVILLE CALIFORNIA

Roseville Energy Park
ROSEVILLE, CA United States

Submitted to: Matt Garner
CITY OF ROSEVILLE CALIFORNIA
5120 PHILLIP RD
ROSEVILLE, CA, 95747-9116
Attention: Tony Johnson

SUEZ Proposal #475721AMC, REV4

Joe Lamberty
Regional Account Manager
SUEZ Water Technologies & Solutions
M: +1 925 872 0948
E: joseph.lamberty@suez.com
W: https://www.suezwatertechnologies.com
24-Hour Emergency Mobile Water 800-446-8004

Submitted by:
SUEZ WTS Services USA, Inc.

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Validity

This proposal is valid for Thirty (30) days from proposal date. In absence of additional proposals pricing will be subject to Price Modification clause one year from proposal date.

Trademark Notification

The following are trademarks of Water Technologies and Solution and may be registered in one or more countries:

+100, ABMet, Absolute.Z, Absolute.Za, AccuSensor, AccuTrak, AccuTrak PLUS, ActNow, Acufeed, ALGAECAP, AmmCycle, Apogee, APPLICATIONS ATLAS, AquaFloc, AquaMax, Aquamite, Aquaplex, AquaSel, Aquatrex, Argo Analyzer, AutoSDI, BENCHMARK, Betz, BetzDearborn, BEV Rite, BioHealth, BioMate, BioPlus, BIOSCAN, Bio-Trol, Butaclean, Certified Plus, CheckPoint, ChemFeed, ChemSensor, ChemSure, CHEX, CleanBlade, CLOROMAT, CoalPlus, COMP-METER, COMP-RATE, COMS (Crude Overhead Monitoring System), Continuum, CopperTrol, CorrShield, CorTrol, Custom Clean, Custom Flo, Cyto3, DataGuard, DataPlus, DataPro, De:Odor, DELTAFLOW, DEOX, DeposiTrol, Desal, Dianodic, Dimetallic, Dispatch Restore, Durasan, DuraSlick, Durasolv, Duratherm, DusTreat, E-Cell, E-Cellerator, ELECTROMAT, Embreak, EndCor, EXACT, FACT-FINDER, Feedwater First, Ferrameen, Ferroquest, FilterMate, Fleet View, FloGard, Flotrex, Flotronics, FoamTrol, FoodPro, Fore4Sight, ForeSight, FRONTIER, FS CLEAN FLOW, FuelSolv, Full-Fit, G.T.M., GenGard, SUEZWaterSource, Glegg, Heat-Rate Pro, High Flow Z, HPC, HPD Process, HyperSperse, Hypure, Hytrex, InfoCalc, InfoScan, InfoTrac, InnovOx, InSight, IONICS, IONICS EDR 2020, IPER (Integrated Pump & Energy Recovery), iService, ISR (Integrated Solutions for Refining), JelCleer, KlarAid, Kleen, LayUp, Leak Trac, Leakwise, LEAPmbr, LEAPprimary, Learning Source, LOGIX, LoSALT, M-PAK, MACarrier, Mace, Max-Amine, MegaFlo, Membrex, MemChem, Memtrex, MerCURxE, MetClear, MiniWizard, MK-3, MOBILEFLOW, MobileRO, Modular Pro, ModuleTrac, MonitAll, Monitor, Monitor Plus, Monsal, MP-MBR, MULTIFLOW, Muni.Z, NEWater, NGC (Next Generation Cassette), Novus, NTBC (Non Thermal Brine Concentrator), OptiGuard, OptiSperse, OptiTherm, Osmo, Osmo PRO, Osmo Titan, Osmonics, Pacesetter, PaceSetter, Petroflo, Petromeen, pHlimPLUS, PICOPORE, PlantGuard, PolyFloc, PowerTreat, Predator, PRO E-Cell, Pro Elite, ProCare, Procera, ProChem, Proof Not Promises, ProPAK, ProShield, ProSolv, ProSweet, Purtrex, QSO (Quality System Optimization), QuickShip, RCC, RE:Sep, Rec-Oil, Recurrent, RediFeed, ReNEW, Renewell, Return on Environment, RMS (Rackless Modular System), ROSave.Z, SalesEdge, ScaleTrol, SeaPAK, SeaPRO, SeaSMART, Seasoft, SeaTECH, Selex, Sensicore, Sentinel, Sepa, Sevenbore, Shield, SIDTECH, SIEVERS, SmartScan, SoliSep, SolSet, Solus, Spec-Aid, Spectrus, SPLASH, Steamate, SteriSafe, Styrex, SUCROSOFT, SUCROTEST, Super Westchar, SuperStar, TFM (Thin Film Membrane), Therminator, Thermoflo, Titan RO, TLC, Tonkaflo, TraveLab, Trend, TruAir, TrueSense, TurboFlo, Turboline, Ultrafilic, UsedtoUseful, Vape-Sorber, VeriFeed, VersaFlo, Versamate, VICI (Virtual Intelligent Communication Interface), V-Star, WasteWizard, WATER FOR THE WORLD, Water Island, Water-Energy Nexus Game, WaterGenie, WaterNODE, WaterNOW, WaterPOINT, WellPro.Z, XPleat, YieldUp, Z-BOX, Z-MOD, Z-PAK, Z-POD, ZCore, ZeeBlok, ZeeLung, ZeeWeed, ZENON, and Z.Plex.

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1 Executive Summary

This document provides all commercial and technical details for the water treatment solution proposed by SUEZ Water Technologies & Solutions for the Roseville Energy Center project, which includes the equipment and services for the California Energy Project Units. Our proposal includes pricing for both DI trailers and Softener trailers.

Suez Equipment and Services is uniquely qualified to provide these Mobile Services based on the following criteria, features and benefits-

- Local Service Centers (San Jose and Stockton) to assure that you are serviced in a timely manner with experienced local technicians.
- Guaranteed effluent quality due to our state of the art regenerations centers.
- The largest fleet in the industry with over 700 assets. (more than all of our competitors combined) This assures timely deliveries and equipment availability.
- InSight remote monitoring. This provides real-time monitoring of your trailers for feedwater quality, effluent quality and estimated remaining capacity, which allows for timely anticipation of exchanges.
- InSight daily review and reporting- All of our customers trailers are reviewed daily by a dedicated Suez resource for remaining capacity, The customer is notified by our team with this information to better anticipate and coordinate trailer exchanges.
- Automatic shut-off. Each trailer will automatically shutoff when the setpoint for conductivity is exceeded in your effluent quality. This will avoid putting bad water into your DI tank and subsequently fouling your equipment.

We truly appreciate the opportunity to provide these services to you and look forward to working together with you and your staff for the coming term. Please feel free to contact me should you have any questions or comments. Thanks, and speak to you soon,

Joe Lamberty
Regional Account Manager
SUEZ Water Technologies & Solutions

M: +1 925 872 0948
E: joseph.lamberty@suez.com
W: https://www.suezwatertechnologies.com
4545 Patent Road, Norfolk, VA, USA

24-Hour Emergency Mobile Water 800-446-8004

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2 Technical & Engineering Details

2.1 Basis of Design

This proposal is offered based on the following water design values from Title 22 Recycled Water (Cooling Tower Make Up) to be used for Utility/Cooling Tower/Boiler Feed.

2.2 Influent Water Quality

The design solution proposed is based on the values below. All values are as mg/l as ion unless otherwise stated.

Cations		**Anions**		**Other**	
Total Hardness, as CaCO3	96.7	Alkalinity, "P", as CaCO3	<0.1	Specific Conductance, at 25°C, µS/cm	390
Calcium Total hardness as CaCO3, ppm	79.6	Alkalinity, "M", as CaCO3	79.4	Total Dissolved Solids (TDS)	N/R
Magnesium Total hardness as CaCO3, ppm	17.1	Chloride	56.7	pH, standard units	6.5
Sodium	49	Sulfur, Total, as SO4	49.0	Total Suspended Solids	N/R
Potassium	N/R	Nitrate, as NO3	N/R	Turbidity, NTU	N/R
Ammonia, as NH3	***<10**	Reactive Silica, Total, as SiO2	15.1	Silt Density Index (SDI15)	N/R
Barium, Total	N/R	Colloidal Silica, Total, as SiO2	N/R	Total Organic Carbon (TOC), as C	N/R
Strontium, Total	N/R	Phosphate, Total, as PO4	1.6	Dissolved Organic Carbon (DOC)	N/R
Copper, Total	<0.05	Phosphate, Total Inorganic, as PO4	1.4	Color, TCU	N/R
Aluminum, Total	<0.1	Phosphate, Ortho-, as PO4	1.3	Total Chlorine	N/R
Manganese, Total	<0.01	Fluoride	N/R	Free Chlorine	N/R
Iron, Total	0.13	--		Carbon Dioxide	N/R
Iron, Dissolved	N/R	--		**Fats, Oil and Grease**	***Non Detectable**
Zinc, ppm	<0.1	--		**BTEX**	***Non Detectable**

Source of Test and Date	09JAN17, A408412
Feed Water Source	Title 22 Recycled Water (Cooling Tower Make Up)

Notes:

1. N/R = data for this parameter has not been reported, and will be assumed to be 0 (zero)
2. Parameters marked with an asterisk have been assumed. Please confirm these values.
3. BTEX = benzene, toluene, ethyl benzene, and xylene.

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2.3 Influent Water Flow Data

Flow rate, pressure and temperature required at inlet to the equipment.

	Minimum	Maximum
Inlet Flow Rate (gpm)	50	250
Pressure (psi) *	40	90
Temperature (°F)	40	90

Pretreatment used (if any)	City Water (Cooling Tower Make Up)

* Pressure must be measured under flowing conditions at the inlet to the SUEZ equipment.

2.4 Product Water Quality and Flow Data

The following performance parameters are expected upon equipment start-up, based on the data listed in the influent quality table and design sections above.

DEMINERALIZERS

Maximum Flow Rate, gpm	50-250
Conductivity at 25°C, µS/cm	<0.5
Dissolved Silica as SiO2, ppb	<20

SOFTENERS

Maximum Flow Rate, gpm	50-250
Total Hardness as CaCO3, ppm	<1

2.5 Influent Water Variability

In the event that the influent water exceeds the specifications used in engineering this proposal or the water source changes, the ability of the water treatment system to produce the designed treated water quality and/or quantity may be impaired. If influent water is provided to the system, which does not meet the specifications shown above, and the equipment therefore does not meet the listed product water characteristics, the total value off any impacted asset of the contract shall be paid in full as described in this proposal. SUEZ shall endeavor to restore the full product water quality as soon as possible after the influent conditions have been restored. Any additional costs incurred by SUEZ resulting from a change in influent conditions, including, but not limited to any repair and replacement of damaged equipment and any additional costs incurred, shall be fully reimbursed to SUEZ.

2.6 Operational Basis

Percentage	95

Down time for routine maintenance such as membrane cleaning, cartridge filter change outs, and pump maintenance must be allowed. All planned maintenance outages will be discussed with the site. They will be scheduled to have minimal impact on site requirements.

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2.7 Waste Water Streams

The following streams are waste lines that will derive from the proposed equipment. The customer must dispose of all these streams and provide the required connections to drain as specified in Customer Scope of Supply section. Connection details of each line can be found in the SUEZ Scope of Supply section where the specification for each supplied unit is detailed.

Waste Line	Flow Rate, gpm or Volume, gal	Additional Comments
Trailer Initial Rinse	~ 2,000 – 5,000 gal	All trailers must be initially rinsed to meet effluent water specs
Trailer Final Drain	~ 2,000 – 5,000 gal	All trailers must be completely drained before returned to SUEZ Service Centers

2.8 Equipment Availability

SUEZ requires a two (2) week period notice from a technically and commercially clean order acceptance in order to prepare the equipment proposed in the SUEZ Scope of Supply section prior to dispatching it to the Customer site. We will however endeavor to expedite this. Once contract is in place, SUEZ will respond within 24 hours of customer request for trailer exchanges and services.

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3 Commercial Offer

3.1 Pricing Table

Pricing for the proposed equipment, consumables, and / or services is summarized in the table below. All pricing is based on the operating conditions and influent water analysis that are detailed in the Technical & Engineering Details section of this proposal. **See Pricing Notes below for pricing clarification**.

DEMINERALIZERS

Qty	Description	Price	Units
Equipment Processing Charge			
1	Mobile Media System (MobileFlow Demineralizer)	$7,000.00	Per Trailer Ordered / Exchanged ***Freight Included***
1	Mobile Media System (MultiFlow - 700 Demineralizer **OR** MultiFlow - 6000S Demineralizer)	$5,200.00	Per Trailer Ordered / Exchanged ***Freight Included***
1	Mobile Media System (VersaFlo Demineralizer - SDI)	$9,020.00	Per Trailer Ordered / Exchanged ***Freight Included***
Equipment Service Charge(s) – After 7 days Free Loan -			
1	Mobile Media System (MobileFlow Demineralizer)	$350.00	Per Day / Per Trailer ***After 7 days***
1	Mobile Media System (MultiFlow - 700 Demineralizer **OR** MultiFlow - 6000S Demineralizer)	$250.00	Per Day / Per Trailer ***After 7 days***
1	Mobile Media System (VersaFlo Demineralizer - SDI)	$350.00	Per Day / Per Trailer ***After 7 days***
Minimum Term for Baseload Rates to Apply			
		Minimum Term: 3 (three) year	
Surcharges			
	Refer to Appendix D		
Field Service – On Site -			
	FSR Coverage	$148.00	per hour, per person **MIN** 8hr/day/person **OR** 40hr/week/person
Freight			
	Included		

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SOFTENERS

Qty	Description	Price	Units
Equipment Processing Charge			
1	Mobile Media System (MobileFlow Softener)	$7,500.00	Per Trailer Ordered / Exchanged ***Freight Included***
1	Mobile Media System (MultiFlow - 700 Softener **OR** MultiFlow - 6000S Softener)	$5,500.00	Per Trailer Ordered / Exchanged ***Freight Included***
Equipment Service Charge(s) – Emergency Rate After 7 days free loan -			
1	Mobile Media System (MobileFlow Softener)	$350.00	Per Day / Per Trailer ***After 7 days***
1	Mobile Media System (MultiFlow - 700 Softener **OR** MultiFlow - 6000S Softener)	$250.00	Per Day / Per Trailer ***After 7 days***
Minimum Term for Baseload Rates to Apply			
		Minimum Term:	3 (three) year
Field Service – On Site -			
	FSR Coverage	$148.00	per hour, per person **MIN** 8hr/day/person **OR** 40hr/week/person
Freight			
	Included		

Optional Items

Qty	Description	Unit Price	Extended Price
1	Fire hose, 2 1/2" NST, 50' sections (3109224)	$150.00	$150.00

3.2 Pricing Notes

1. No credit for partially used or unused units. Exclusive of equipment service, FSR, and freight charges.
2. Exchanges of MobileFlow or MultiFlow units during the term of the contract will also be charged at the freight rate as quoted above. Additional freight charges, including, but not limited to, expedited freight, shipment during public holidays or any special circumstances shall be charged at extra.
3. All prices quoted are in USD.
4. The customer will pay all applicable local, state, provincial, or federal taxes and duties.
5. The equipment delivery date, start date, and date of commencement of operations are to be negotiated.
6. Commercial terms and conditions shall be in accordance with Appendix C.1 of this document.
7. This proposal and the rates provided herein are subject to final site, environmental, and financial due diligence by SUEZ.
8. This proposal supersedes all previous proposals and correspondence.
9. Equipment Service Charges to commence on actual delivery date at site.

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10. The FSR coverage rate is to be billed for hours on site. Additional charges shall apply for standby FSR due to customer delays
11. PRICE MODIFICATION.

SUEZ WTS Services USA, Inc. shall adjust the service rates at each annual anniversary date. The anniversary date shall be based on proposal issue date. The prices shall be adjusted by the greater of: (i) 3%; or (ii) a combination of two BLS indices in which 50% of the payment amount shall be adjusted by an amount equal to the percentage increase of the Index for Chemicals and Allied Products (WPU06) plus 50% of the payment amount shall be adjusted by an amount equal to the percentage increase of the Index for Total Private Average Hourly Earnings of Production - Workers Not Seasonally Adjusted (CEU0500000008) (both indexes as reported by the US Dept. of Labor - Bureau of Labor Statistics).

All calculations shall be made using the most recent annual index values as reported by the US Dept. of Labor-Bureau of Labor Statistics at http://data.bls.gov/cgi-bin/surveymost?wp.

SUEZ WTS Services USA, Inc. retains the right to implement reasonable surcharges, or to adjust the service rates as applicable in the event of extraordinary cost increases for materials, parts, chemicals, etc. used in performance of the services. Customer shall adjust, or modify, the Purchase Order in a manner that adequately funds SUEZ WTS Services USA, Inc.'s continuous provision of authorized services as adjusted in accordance with these terms.

3.3 Field Service Coverage

The FSR(s) will work on site in accordance with local working time regulations. The FSR will manage their time such that they can respond to required callouts within their allowable working time. If however they are unable to complete all the required tasks within the allocated time then additional FSR cover may be required at a cost to CITY OF ROSEVILLE CALIFORNIA.

3.4 Term and Service Period

This Agreement shall enter into effect on **TBD** and shall continue in full force and effect until the Equipment leaves the Site (the "Term" of this Agreement).

This Agreement may be renewed prior to the expiration of the above stated Service Period by mutual agreement between the parties. Upon such renewal, all references made to the Service Period shall be deemed to include both the in the foregoing referred to initial Service Period as well as any renewal Service Periods as a whole. Notice for renewal shall be given in writing by Customer not less than seven (7) days prior to the expiration of the ongoing Service Period, otherwise the Service Period shall automatically terminate and the Equipment be returned to SUEZ in accordance with the terms and conditions of this Agreement.

3.5 Invoicing and Payment Terms

Payment terms are net 30 days from date of invoice.

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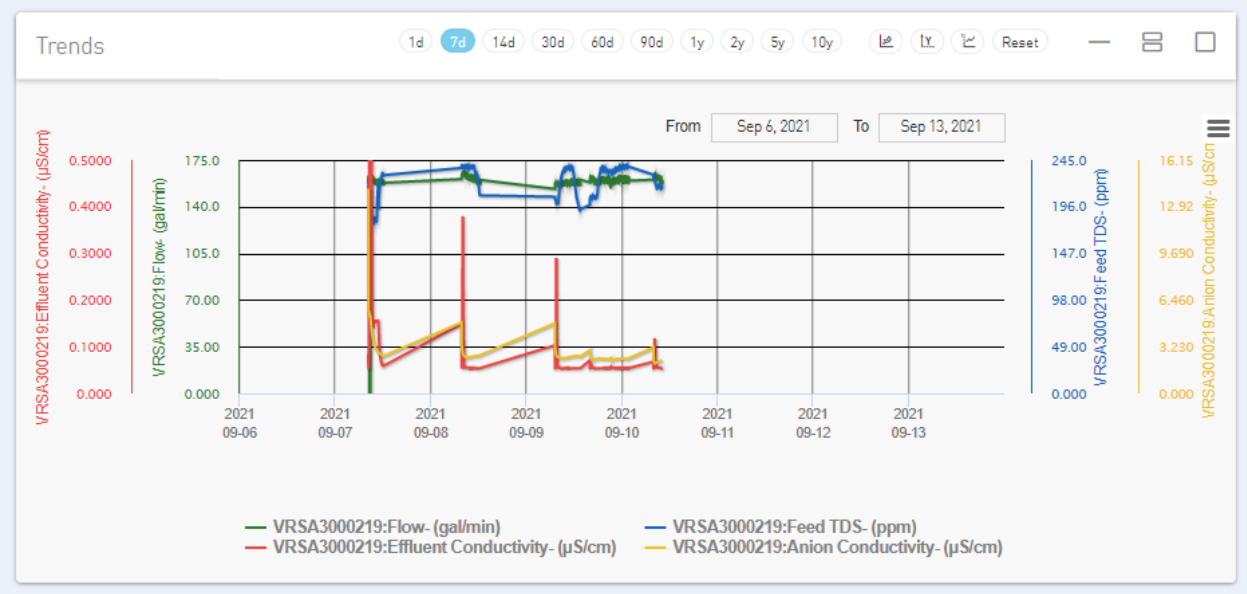
3.6 Conditional Offering

Customer understands that this proposal has been issued based upon the information provided by customer, and currently available to, SUEZ at the time of proposal issuance. Any changes or discrepancies in site conditions (including but not limited to system influent water characteristics, changes in environmental, health, and safety (EH&S) conditions, and/or newly discovered EH&S concerns), Customer financial standing, Customer requirements, or any other relevant change, or discrepancy in, the factual basis upon which this proposal was created, may lead to changes in the offering, including but not limited to changes in pricing, warranties, quoted specifications, or terms and conditions. SUEZ's offering in the proposal is conditioned upon verification of Customer's EH&S conditions, financial standings, and other information.

3.7 Insight Data Transmission

SUEZ equipment will be outfitted with InSight, a Knowledge Management Solution, for the collection of performance data from select equipment. This data enables our customers to achieve success and overcome operational challenges including avoiding operational interruptions, reducing operating and maintenance costs including chemicals and energy, and optimizing operator efficiency. In the event SUEZ's equipment is outfitted with InSight, data transmission will occur wirelessly, requiring no communication wires, allowing quick setup and transmission of valuable operational data.(Example Below)



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4 SUEZ Scope of Supply

The proposed treatment system consists of the components described in this section.

4.1.1 Mobile Media System

Model	MobileFlow Demineralizer
Application / Media Type	Cation/Anion/Mixed Bed
Configuration	Wheel Mount

Design Data

Number of Media Tanks	6
Minimum Flow	100 gpm
Peak Flow	400 gpm
Minimum Pressure Drop	12 psi
Peak Pressure Drop	90 psi
Operating Temperature	34-110 F
Inlet Pressure	15-90 psi

Materials of Construction

Tank Exterior	Carbon Steel
Tank Interior	Rubber Lined

Installation and Utility Requirements

Trailer, Tank Dimensions	43' L x 8' W x 13' 6" H, 60" dia
Service Inlet Connection	4" 150lb flange or 3 x 2.5" nst
Service Outlet Connection	4" 150lb flange or 3 x 2.5" nst
Backwash Connection	
Power Required	110V/20a
Shipping Weight Estimate	58000 lbs
Operating Weight Estimate	90000 lbs

Features Included

- ❑ Adjustable Pressure reducing valve
- ❑ Isolation valves on all pressure vessels
- ❑ Automatic shutdown system
- ❑ External audible alarms
- ❑ Propane fueled, thermostat controlled, heating system
- ❑ Outlet resin trap

Order entry information

SAP Description	DEMINERALIZATION,STANDARD,MF
Prep Part Number	BMS1000236
Rental Part Number	BMS1000522

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4.1.2 Mobile Media System

Model	VersaFlo Demineralizer - SDI
Application / Media Type	Cation/Weak Base Anion/Strong Base Anion/Mixed Bed
Configuration	Wheel Mount

Design Data

Number of Media Tanks	20
Minimum Flow	100 gpm
Peak Flow	400 gpm
Minimum Pressure Drop	12 psi
Peak Pressure Drop	90 psi
Operating Temperature	34-120 F
Inlet Pressure	50-100 psi

Materials of Construction

Tank Exterior	Fiberglass
Tank Interior	Epoxy

Installation and Utility Requirements

Trailer, Tank Dimensions	48' L x 8.6' W x 12' 8" H, 36" dia
Service Inlet Connection	3" or 4" 150lb flange
Service Outlet Connection	3" or 4" 150lb flange
Backwash Connection	
Power Required	110V/15a
Shipping Weight Estimate	49000 lbs
Operating Weight Estimate	80000 lbs

Features Included

- ❑ Adjustable Pressure reducing valve
- ❑ Isolation valves on all pressure vessels
- ❑ Automatic shutdown system
- ❑ Outlet resin trap

Order entry information

SAP Description	DEMIN,STANDARD,VERSAFLO-16
Prep Part Number	BMS1000502
Rental Part Number	BMS1000678

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4.1.3 Mobile Media System

Model	MultiFlow - 6000S Demineralizer
Application / Media Type	Cation/Anion/Mixed Bed
Configuration	Skid Mounted

Design Data

Number of Media Tanks	4
Minimum Flow	75 gpm
Peak Flow	225 gpm
Minimum Pressure Drop	16 psi
Peak Pressure Drop	55 psi
Operating Temperature	34-119 F
Inlet Pressure	15-90 psi

Materials of Construction

Tank Exterior	Carbon Steel
Tank Interior	Rubber Lined

Installation and Utility Requirements

Skid, Tank Dimensions	28' L x 8' W x 13' 6" H, 60" dia
Service Inlet Connection	2.5" nst
Service Outlet Connection	2.5" nst
Backwash Connection	
Power Required	110V/20a
Shipping Weight Estimate	34600 lbs
Operating Weight Estimate	42200 lbs

Features Included

- ❑ Adjustable Pressure reducing valve
- ❑ Isolation valves on all pressure vessels
- ❑ Automatic shutdown system
- ❑ External audible alarms
- ❑ Propane fueled, thermostat controlled, heating system
- ❑ Outlet resin trap

Order entry information

SAP Description	DEMIN, MIXED-BED,MF6000
Prep Part Number	BMS1000271
Rental Part Number	BMS1000553

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4.1.4 Mobile Media System

Model	MultiFlow - 700 Demineralizer
Application / Media Type	Cation/Anion/Mixed Bed
Configuration	Skid Mounted

Design Data

Number of Media Tanks	4
Minimum Flow	75 gpm
Peak Flow	250 gpm
Minimum Pressure Drop	16 psi
Peak Pressure Drop	65 psi
Operating Temperature	34-119 F
Inlet Pressure	15-90 psi

Materials of Construction

Tank Exterior	Carbon Steel
Tank Interior	Rubber Lined

Installation and Utility Requirements

Skid, Tank Dimensions	45' L x 8' W x 12' 6" H, 60" dia
Service Inlet Connection	2.5" nst
Service Outlet Connection	2.5" nst
Backwash Connection	
Power Required	110V/20a
Shipping Weight Estimate	45000 lbs
Operating Weight Estimate	53000 lbs

Features Included

- ❑ Adjustable Pressure reducing valve
- ❑ Isolation valves on all pressure vessels
- ❑ Automatic shutdown system
- ❑ External audible alarms
- ❑ Outlet resin trap

Order entry information

SAP Description	DEMIN,STANDARD,MF700
Prep Part Number	BMS1000296
Rental Part Number	BMS1000578

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4.1.5 Mobile Media System

Model	MobileFlow Softening
Application / Media Type	Cation - Sodium Form
Configuration	Wheel Mount

Design Data

Number of Media Tanks	6
Minimum Flow	100 gpm
Peak Flow	600 gpm
Minimum Pressure Drop	12 psi
Peak Pressure Drop	90 psi
Operating Temperature	34-110 F
Inlet Pressure	15-90 psi

Materials of Construction

Tank Exterior	Carbon Steel
Tank Interior	Rubber Lined

Installation and Utility Requirements

Trailer, Tank Dimensions	43' L x 8' W x 13' 6" H, 60" dia
Service Inlet Connection	4" 150lb flange or 3 x 2.5" nst
Service Outlet Connection	4" 150lb flange or 3 x 2.5" nst
Backwash Connection	
Power Required	110V/20a
Shipping Weight Estimate	58000 lbs
Operating Weight Estimate	90000 lbs

Features Included

- ❑ Adjustable Pressure reducing valve
- ❑ Isolation valves on all pressure vessels
- ❑ Automatic shutdown system
- ❑ External audible alarms
- ❑ Propane fueled, thermostat controlled, heating system
- ❑ Outlet resin trap

Order entry information

SAP Description	SOFTENING,MF
Prep Part Number	BMS1000235
Rental Part Number	BMS1000521

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4.1.6 Mobile Media System

Model	MultiFlow - 6000S Softener
Application / Media Type	Cation - Sodium Form
Configuration	Skid Mounted

Design Data

Number of Media Tanks	3
Minimum Flow	75 gpm
Peak Flow	225 gpm
Minimum Pressure Drop	16 psi
Peak Pressure Drop	55 psi
Operating Temperature	34-119 F
Inlet Pressure	15-90 psi

Materials of Construction

Tank Exterior	Carbon Steel
Tank Interior	Rubber Lined

Installation and Utility Requirements

Skid, Tank Dimensions	28' L x 8' W x 13' 6" H, 60" dia
Service Inlet Connection	2.5" nst
Service Outlet Connection	2.5" nst
Backwash Connection	
Power Required	110V/20a
Shipping Weight Estimate	34600 lbs
Operating Weight Estimate	42200 lbs

Features Included

- ❑ Adjustable Pressure reducing valve
- ❑ Isolation valves on all pressure vessels
- ❑ Automatic shutdown system
- ❑ External audible alarms
- ❑ Propane fueled, thermostat controlled, heating system
- ❑ Outlet resin trap

Order entry information

SAP Description	SOFTENING,MF6000
Prep Part Number	BMS1000277
Rental Part Number	BMS1000559

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4.1.7 Mobile Media System

Model	MultiFlow - 700 Softener
Application / Media Type	Cation - Sodium Form
Configuration	Skid Mounted

Design Data

Number of Media Tanks	4
Minimum Flow	75 gpm
Peak Flow	250 gpm
Minimum Pressure Drop	16 psi
Peak Pressure Drop	65 psi
Operating Temperature	34-119 F
Inlet Pressure	15-90 psi

Materials of Construction

Tank Exterior	Carbon Steel
Tank Interior	Rubber Lined

Installation and Utility Requirements

Skid, Tank Dimensions	45' L x 8' W x 12' 6" H, 60" dia
Service Inlet Connection	2.5" nst
Service Outlet Connection	2.5" nst
Backwash Connection	
Power Required	110V/20a
Shipping Weight Estimate	45000 lbs
Operating Weight Estimate	53000 lbs

Features Included

- ❑ Adjustable Pressure reducing valve
- ❑ Isolation valves on all pressure vessels
- ❑ Automatic shutdown system
- ❑ External audible alarms
- ❑ Outlet resin trap

Order entry information

SAP Description	SOFTENING,MF700
Prep Part Number	BMS1000303
Rental Part Number	BMS1000585

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5 Customer Scope of Supply

All delivery or services not specified in the SUEZ Scope of Supply are included in the Customer Scope of Supply.

5.1 Safety and Environmental

- ❑ First aid and emergency medical response
- ❑ Eyewash and safety showers in the water treatment area
- ❑ Chemical spill response
- ❑ Security and fire protection systems per local codes
- ❑ Environmental use and discharge permits for all chemicals/waste water streams at the customer facility either listed in this document or proposed for use at a later date
- ❑ Any special permits required for SUEZ or Customer employees to perform work related to the water treatment system at the facility
- ❑ All site testing, including soil, ground and surface water, air emissions, etc.
- ❑ Disposal of all solid and liquid waste from the SUEZ System
- ❑ The Customer will identify and inform SUEZ personnel of any hazards present in the work place that could impact the delivery of SUEZ's scope of supply and agrees to work with SUEZ to remove, monitor, and control the hazards to a practical level.
- ❑ The Customer will provide training to SUEZ's personnel on all relevant and standard company operating procedures and practices for performing work on site. Such training programs may include, but are not limited to, general environmental health and safety (EHS), HAZOP, fire protection, drug testing, incident notice, site conduct, standard first aid, chemical receiving, electrical safety, etc. Customer will provide a certificate of training for SUEZ personnel. This program will be fully documented, training materials will be provided, and attendance list will be kept.

5.2 Jobsite and Installation Review

- ❑ Review of SUEZ supplied equipment drawings and specifications
- ❑ Overall plant design, detail drawings of all termination points where SUEZ equipment or materials tie into equipment or materials supplied by others
- ❑ All easements, licenses and permits required by governmental or regulatory authorities in connection with the supply, erection and operation of the system
- ❑ All applicable civil design and works, including any building, site preparation, grading, excavations, foundations, and trenches and accessories
- ❑ All electrical labor and supplies leading up to and from the jobsite and between equipment, including power supplies and cables, control cables, fittings, conduit, supports, cable trays, wire and hardware, and air conditioned panels as required for installation and ongoing operations
- ❑ All labor and supplies leading up to and from the jobsite and between equipment, including fittings, conduit, supports, cable trays, wire and hardware required to appropriately ground / earth the equipment as required for installation and ongoing operations
- ❑ All mechanical labor and supplies leading up to and from the jobsite including connecting and interconnecting piping, heat tracing or winterization of equipment (if required), fittings, conduit, pipe supports, and hardware as required for installation and ongoing operations
- ❑ All instrumentation, control and automatic pneumatic valves including, but not limited to, air / sample line tubing, fittings, conduit, supports, isolating valves leading up to jobsite and between SUEZ-supplied skids and hardware as required for installation and ongoing operations

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- ❑ Loading, unloading, lifting, positioning and transportation of the equipment and materials required for SUEZ to perform the duties outlined in the SUEZ Scope of Supply to the jobsite and/or warehouse
- ❑ All access structures (scaffolding) and mechanical lifting equipment (cranes, forklifts, and scissor lifts)
- ❑ Providing a suitable site/shelter for the placement of the proposed equipment, either inside appropriate housing, or outdoors. Note: electrical equipment, including the PLC, may require air-conditioned rooms to prevent overheating of sensitive electronic equipment, depending on climatic conditions.
- ❑ Bulk chemical storage and tanks, including secondary containment in accordance with local codes
- ❑ Timely disposal of unused chemicals
- ❑ Receiving, off-loading, logging, and storing all chemicals and materials in accordance with Manufacturer's recommendation that are shipped to the site
- ❑ Compressed, oil and grease free instrument air for pneumatic valves and instruments
- ❑ Equipment anchor bolts if required.
- ❑ Telephone / fax / modem access for SUEZ staff while on site if required.
- ❑ Laboratory services, operating and maintenance personnel during equipment check out, start-up and operation if required.
- ❑ Any customer supplied hosing, interconnections, pipework must be suitable for operating pressures of up to 10 bar (145 psi).
- ❑ Pressure relief valving upstream of SUEZ equipment to stop pressure spikes (water hammer) from closing / stopping of downstream valves / pumps. SUEZ can supply this if requested.

5.3 Start-Up, Commissioning, and De-Commissioning

- ❑ Verification of removal of all residual debris from construction
- ❑ Provide an uninterrupted influent water and electrical supply to SUEZ for approximately 2 days in order to allow the commissioning of the supplied equipment
- ❑ Supply raw materials, chemicals and utilities during start-up and operation
- ❑ Telephone / fax / modem access for SUEZ staff while on site if required.
- ❑ Laboratory services, operating and maintenance personnel during equipment checkout, start-up and operation
- ❑ Provide an uninterrupted influent water and electrical supply to SUEZ for approximately 2 days in order to allow the decommissioning of the supplied equipment
- ❑ Provide compressed air and electricity in order to power site tools during installation assembly

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5.4 Facility Management

- Warehouse storage space and facilities, as are available at the site, and are reasonably appropriate to store parts, consumables, tools, etc. in accordance with manufacturers' recommendations. Such warehouse storage space will be a segregated area, secured and protected from adverse climate as may be reasonably required. Customer will be responsible for risk of loss of SUEZ's parts while in storage at the site. Customer will maintain SUEZ's parts stored at the site free and clear of any and all liens of Customer and Customer's lenders, bondholders, contractors, and other creditors of any nature.
- Free access and egress of the facility for all authorized work for SUEZ staff
- Workshop facilities with standard workshop tools and equipment, as is reasonably appropriate, that are necessary to meet the repair and maintenance requirements of the system. Such equipment includes, but is not limited to, benches, vices, drill press, electric saws, hand tools, power tools, pneumatic tools, etc.
- All access structures (scaffolding) and mechanical lifting equipment (cranes, forklifts, and scissor lifts)
- Provide a location with suitable load bearing at Customer's facilities required for the Equipment and the operation thereof in its usual and customary manner and in such a way as to permit SUEZ to furnish the Service
- Adequate illumination and emergency lighting for all areas in which SUEZ staff will be executing the scope of supply
- Equipment for movement of chemical drums, totes, and resin, as is reasonable
- All site utilities such as raw water at appropriate pressure and flow rate, instrument quality air, potable water, and power required for operation of the proposed equipment included in this scope of supply as specified by SUEZ in this Agreement

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Appendix A. Acceptance

A.1 How to Place an Order

To ensure accurate and prompt order entry, product delivery, billing and accounts receivable processing, please ensure your Purchase Order contains the following information:

1. **Legal Entity:** Please identify SUEZ WTS Services USA, Inc. as the 'Seller' on any Purchase Order(s).

Legal Entity:	SUEZ WTS Services USA, Inc. 4545 Patent Road Norfolk, VA 23502 USA

2. **Submit:** SUEZ requires a hard copy of the PO with full customer and order details – by postal mail, e-mail, or fax. Communicate your PO to our central order processing department at:

E-Mail:	dl-wats-po@suez.com
Fax:	(757) 855-9631
Postal Mail:	SUEZ WTS Services USA, Inc. 4545 Patent Road Norfolk, VA 23502 USA

3. **Details:** Ensure your Purchase Order contains the following information:
    a. **Proposal Number:** Please reference the Proposal # 475721AMC, REV4 dated 06/21/2022, in any purchase orders.
    b. **Quantity** with units of measure (UOM) needs to be stated for each item listed in the PO.
    c. **Unit Price and / or Total Price** need to be stated alongside the information so that the Purchase Order can be cross checked against any proposal detail.
    d. **Delivery Location (Ship-to Address)**: Please clearly define the delivery location.
    e. **Delivery Date**: Please include your requested delivery date in your PO. Upon receipt of the PO the requested delivery date will be reviewed, if that date is achievable based upon current factory loading it will be confirmed back to you via the confirmation information indicated on your PO, if the requested delivery date is not achievable a representative will contact you to discuss how to proceed. If a delivery date is not included in your PO the next available production capacity will be utilized and confirmed back to you.

4. **Execute:** Please sign and date below and include this page with your purchase order. Upon acceptance of the PO, SUEZ will sign and date this page and return it to CITY OF ROSEVILLE CALIFORNIA.

For: CITY OF ROSEVILLE CALIFORNIA	For: SUEZ WTS Services USA, Inc.
Name: _____	Name: _____
Signature: _____	Signature: _____
Date: _____	Date: _____

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6 Invoicing and Remittance

6.1 Preferred Invoice Delivery Method

To ensure prompt invoice handling, please indicate your preference:

- Receive invoices by Postal Mail Service
- Upload invoices to portal or send via email

For Postal Mail submission, please provide all of this information:

Name of Recipient	
Job Title of Recipient	
Telephone Number of Recipient	
Email Address of Recipient	
Company	
Operations Specific Site Name	
Address Line 1	
Address Line 2	
City	
State	
Zip Code	

For Portal Upload or Email submission, please provide all of this information:

Instructions	For Portal Upload, please attach instructions
Web Link Address	
Name and Job Title of Help Contact	
Email Address of Help Contact	
Telephone Number of Help Contact	

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6.2 Invoice Processing

Please provide all information requested below.

Operation Lead, Engineer, Buyer who specified product and approves invoice for payment	
Person's Full Name	
Person's Title	
City	
Email Address	
Telephone Number	
Accounts Payable Administrative Contact	
Person's Full Name	
Person's Title	
City	
Email Address	
Telephone Number	
Person who "codes" or "links" invoice to PO, department, or category	
Person's Full Name	
Person's Title	
City	
Email Address	
Telephone Number	

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6.3 Remittance of Payments

In an effort to continuously serve you better, SUEZ would like to request your assistance for the following.

Checks – please include all remittance details for payment, including invoice numbers and amounts, to the following lockbox:

SUEZ WTS Services USA, Inc.
P.O. Box 418930
Boston, MA 02241-8930

EFT – please send all remittance details for payments, including invoice numbers and amounts, to shd-wats-remit-nam@suez.com and include customer name and remit to total in the email subject line.

Additionally, please inform us at shd-wats-remit-nam@suez.com for any of the following important changes:

- Name, address, or contact information changes for your business
- Tax status changes, along with any relevant supporting forms
- Changes to how invoices are received, including location, method, and instructions

6.4 Future purchase Orders

Please do not change payment terms on any future purchase orders. Please reflect the payment terms outlined in the contact / proposal signed by the two parties. Altered payment terms will not be honored.

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Appendix B. Definitions

As used in this Agreement the terms below shall have the meanings as described below.

B.1 General Definitions

Agreement	shall mean the terms and conditions contained in this Proposal, including its Attachments as a whole
Delivery and Removal Charge	The rate specified, usually cost per mile, to deliver and remove the SUEZ unit from the Customer's location. For either delivery or removal, the cost is computed based upon the distance from the SUEZ service center to the Customer's location and the same mileage from the Customer's location to the SUEZ service center (round trip).
Effluent Water	shall mean the treated water delivered from the Equipment to Customer's storage tank or point of use, resulting from the treatment of Influent Water under the terms and conditions of this Agreement
Equipment	shall mean the mobile treatment equipment as further detailed in the SUEZ Scope of Supply section of this proposal
Field Service Representative	An employee of SUEZ who has been professionally trained to operate and maintain SUEZ's equipment. This employee is also able to provide a wide array of analytical services with SUEZ supplied instruments
Influent Water	shall mean Customer's influent water or fluids to be provided by Customer at the inlet of the Equipment, and subject to treatment under the terms and conditions of this Agreement
Minimum Processing Charge	A minimum fee, per unit delivered, generally exclusive of Field Service Representative, service, and delivery and removal charges, that applies when the processing charge is expressed as a cost per 1,000 gallons or other unit of volume. The minimum covers mobilization and preparation of the unit and is charged only when gallons processed times the processing charge yield less than the stated minimum.
Mobilization Charges	Price charged for the supply of project specific equipment required for the operation of the water treatment plant.
Preparation Charge	A fee charged for labor and materials to prepare equipment to meet specific Customer requirements. May also be identified as a Set-up Charge.
Processing Charge	A fee charged for the processing of a fluid through equipment supplied by SUEZ. This fee may be expressed as a cost per unit of volume, cost per unit delivered, or cost per day, week, or month.
Service Center	A location where SUEZ provides services including resin regeneration, fleet storage, analytical services, sales support and technical support.
Service Charge	A fee imposed, usually hourly, daily or monthly, for the use of SUEZ's fluid treatment equipment. Service Charges commence upon arrival at customer's site unless otherwise specified.

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Services	shall mean the overall services to be provided by SUEZ, as consisting of the deployment and provision of the Equipment and corresponding processing services relating to the treatment of Influent Water as further detailed in the SUEZ Scope of Supply section
Site	shall mean Customers premises at CITY OF ROSEVILLE CALIFORNIA ROSEVILLE, CA United States
Surcharge	A temporary fee charged to recover unusual increase in cost of production or distribution materials. The fee is based on a sliding scale index.
Unit/System/ Equipment	Generally referred to as a piece or array of fluid treatment equipment, which may be of either mobile or fixed-base design.
Waste Water	shall mean the waste generated from the Equipment to Customer's drain resulting from the treatment of influent water.

B.2 Field Service Representative Charges

Per Hour	When required or requested by the Customer, SUEZ will bill the Customer for all hours worked by the Field Service Representative while on-site at the Customer's location. Unless otherwise specified, a minimum of eight (8) hours per 24-hour day will be charged while the Field Service Representative is engaged by the Customer, whether the Field Service Representative is required to report to the Customer's location, or remain in the local area on stand-by. A daily log sheet is provided by SUEZ for the Customer's use in accounting for hours worked or charged for. The hourly rate is the same for straight time, overtime, holidays, or weekends.

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Appendix C. Conditions of Contract and Warranties

SELLER:

SUEZ WTS Services USA, Inc.
4545 Patent Road
Norfolk, VA 23502
USA

BUYER:

CITY OF ROSEVILLE CALIFORNIA
5120 PHILLIP RD
ROSEVILLE, CA 95747-9116

As used in the Terms and Conditions, the term "Goods" shall mean materials as outlined in the SUEZ WTS Services USA, Inc. Scope of Supply section of this proposal.

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C.1 Attachment 1 - Terms and Conditions of Contract

Contract Purchase Agreement 3001269

Supplier Details:

Company	Suez WTS Services USA Inc
Contact	
Address	3734-B Imperial Way
	Stockton, CA 95215

Submit your response to:

Company	City of Roseville
Contact	"Becky" Rebecca Philipp
Address	Purchasing Division
	2075 Hilltop Circle
	Roseville, CA 95747
Phone	(916) 774-5724
Fax	(916) 774-5736
E-mail	BPhilipp@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.

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Appendix D. Surcharge Table

Caustic Surcharge- Current Rate To Be Provided Upon Request			
Published Price* $/Ton F.O.B. Terminal Membrane Cell Caustic	Surcharge per Unit Ordered VersaFlo®	Surcharge per Unit Ordered MobileFlow®	Surcharge per Unit Ordered MultiFlow® #60000S
$399 or Less	$ --	$ --	$ --
$400-$449	$71.00	$ 50.00	$ 35.00
$450-$499	$157.00	$ 110.00	$ 75.00
$500-$549	$242.00	$ 170.00	$ 115.00
$550-$599	$327.00	$ 230.00	$ 155.00
$600-$649	$412.00	$ 290.00	$ 195.00
$650-$699	$498.00	$ 350.00	$ 235.00
$700-$749	$583.00	$ 410.00	$ 275.00
$750-$799	$668.00	$ 470.00	$ 315.00
$800-$849	$753.00	$ 530.00	$ 355.00
$850-$899	$838.00	$ 590.00	$ 395.00
$900-$949	$923.00	$ 650.00	$ 435.00
$950-$999	$1,010.00	$ 710.00	$ 475.00
$1000-$1049	$1,094.00	$ 770.00	$ 510.00
$1050-$1099	$1,179.00	$ 830.00	$ 550.00
$1100-$1149	$1,264.00	$ 890.00	$ 585.00
$1150-$1199	$1,349.00	$ 950.00	$ 625.00
$1200-$1249	$1,435.00	$ 1010.00	$ 665.00

** Surcharges are determined by current published prices provided by IHS Markit for membrane grade caustic. This information can be provided upon request. The caustic surcharge will be determined by the market price at Chicago, IL, effective on the first day of the month in which the service is provided.*

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Appendix E. Field Service Support

E.1 Customer Operated Jobs*

When contracting for a SUEZ water treatment system without the services of a SUEZ Field Service Representative (FSR), the customer will be responsible to verify several parameters upon delivery of the equipment, including but not limited to:

- The equipment is secure and in good working order
- The shutdown features and alarms are activated and functioning
- Operating parameters are within the specific limits
- And the effluent water quality meets the required specifications

After verification of the above parameters and commencement of operation, water quantity and quality issues are the customer's responsibility.

SUEZ services include:

- Guaranteed effluent water quality upon equipment delivery
- 24 hour, 365 day per year technical assistance from SUEZ's Logistics and Customer Service departments
- Emergency back-up equipment
- Emergency replacement parts
- Written equipment start-up and operational procedures
- Training for the operators

Customer responsibilities include:

- Daily operating labor
- Effluent water quality and quantity monitoring
- FSR transportation, labor, and per diem for all service calls
- Daily equipment readings
- Transmission of equipment readings to SUEZ's Logistics department
- Routine maintenance and repair labor
- Instrument calibration

Daily housekeeping

- Maintain influent water within the specified parameters
- Site access and security
- Site suitable for water treatment equipment
- Emergency first aid

Optional services available: Services of a SUEZ FSR, trained in water treatment theory and operation by SUEZ, are available at the request of the customer to:

- Provide equipment installation assistance and start-up services
- Operate and monitor equipment performance to guarantee effluent water quality and quantity
- Manage water inventory
- Provide repair services
- Troubleshoot problems

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To increase FSR coverage, schedule service, order equipment, or request technical or field assistance, contact SUEZ:

In the US: (757) 855-9000 or US toll-free (800) 446-8004
In the EU: +800 4300 0043
In the ANZ: +1800 064 140
For other countries: +44 (0) 1733 394555

Daily readings can be faxed to SUEZ's Logistics department:

In the US: (757) 855-1478
In the ANZ: +1800 648 530
For other countries: +44 (0) 1733 390179

* Customer operated applies when the customer has not contracted for scheduled FSR site visits.

E.2 Mobile Equipment Maintenance Requirements

The following tables contain the standard maintenance requirements for EMEA Mobile equipment. The frequencies are a guideline and may require adjustment depending on customer water quality or other environmental conditions.

These tasks should be completed either by SUEZ Field Service Representatives or customer assigned operators. Delegation of the tasks will depend on the level of FSR cover included in the service package.

E.2.1 MobileFlow Equipment

All Demineralizers		
Standard Operations Tasks		
Task	**Frequency**	**Time for task**
Take and record Equipment Readings (flows & pressures)	3 times every 8 hours	5 minutes
Complete issued Readings Spreadsheets and transmit to Mobile Service or upload to Insight Data Portal	Once per day	30 minutes
Take and record Feed water Conductivity Reading	1 time every 8 hours	5 minutes
Take and record Feed water CO2 Reading	1 time every 8 hours	5 minutes
Take and record product water silica using Spec20	1 time every 8 hours	20 minutes
Check/Change Product Filter Bag	Check Weekly Change >0.5 Bar DP or monthly	10 minutes

All Demineralizers		
Standard Maintenance Tasks		
Task	**Frequency**	**Time for task**
Calibrate Anion & Mixed Bed Vessels Conductivity Probe	Every 3 Months	30 minutes
Complete issued Readings Spreadsheets and transmit to Mobile Service	Once per day	30 minutes

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All Softeners		
Standard Operations Tasks		
Task	**Frequency**	**Time for task**
Take and record Equipment Readings (flows & pressures)	3 times every 8 hours	5 minutes
Complete issued Readings Spreadsheets and transmit to Mobile Service or upload to Insight Data Portal	Once per day	30 minutes
Take and record Feed Water Conductivity Reading	1 time every 8 hours	5 minutes
Take and record feed and product water hardness level	3 time every 8 hours	5 minutes

All Softeners		
Standard Maintenance Tasks		
Task	**Frequency**	**Time for task**
Product Filter Bag	Change >0.5 Bar DP or monthly	15 minutes
Calibrate Anion and Mixed Bed Vessels Conductivity Probe	Every 3 months	30 minutes
Complete Issued Readings Spreadsheets and transmit to Mobile Service	Once per day	30 minutes

E.3 Common System Work Totals

System	Total Daily Cover Required (hours)	Daily Customer Time with Daily FSR Visit (hours)	Daily Customer Time with Weekly FSR Visit (hours)
MobileFlow Demin	2.25	1.5	2.25
Reverse Osmosis (240 2 Pass)	3.95	1.5	3.9
2PRO>MFDI	6.2	3	5.15
MobileFlow Filter	5	2.95	5
MF Filter>RO	8.95	4.45	8.95
MF Filter>RO>MFDI	10.55	15.95	16.2

Assumptions:

- Cover estimations are based on a 24 hour period
- Tasks not completed simultaneously
- Long term maintenance is based on best case and averaged out per day
- Filter is assumed to have a complete backwash per day
- Task duration times are based on execution by an experienced SUEZ Field Service Engineer carrying them out

COUNCIL COMMUNICATION

CC #: 2261
File #: 0900-02

Title:	Downtown Water Mains Replacement Project – Hillcrest Neighborhood - Notice of Completion
Contact:	Janice Gainey 916-774-5535 jrgainey@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.7.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council adopt the attached resolution accepting the Downtown Water Mains Replacement Project – Hillcrest Neighborhood (Project #500094) as complete and authorizing the Environmental Utilities Director to execute the Notice of Completion.

BACKGROUND

An analysis of maintenance history, flow capacity limitations, and age of the water distribution pipelines in the Roseville downtown area identified the need for mainline replacements and upsizing. The scope of this project included Design-Assistance and Construction of approximately 20,315 feet of 8-inch and 12-inch water mains and associated appurtenances. The project area is shown in the Notice of Completion.

On February 3, 2021, City Council awarded a Design-Assist Construction Contract to A. Teichert & Sons Inc. dba Teichert Construction after a competitive proposal process.

The City's Environmental Utilities Department (EUD) completed final inspection of the project on July 7, 2022, and found the work to be completed in accordance with the improvement plans and specifications, punch list items are complete, and is now ready for acceptance.

FISCAL IMPACT

A Design-Assist Construction Contract was awarded to Teichert Construction in the amount of $6,995,535. City Council also approved an allowance to pay contract change orders of up to 10% of the value of the contract ($699,554), for a not-to-exceed total of $7,695,089. There were a total of five negotiated change orders during construction and one allowance item was found not to be needed. Final contract value is $7,066,478.95.

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.

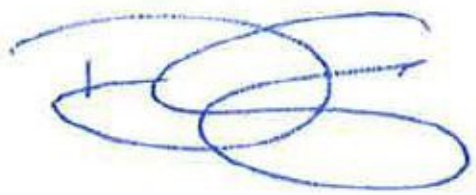
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Janice Gainey, Senior Engineer

Richard Plecker, Environmental Utilities Director



_____

Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 22-324

Notice of Completion and Vicinity Map

RESOLUTION NO. 22-324

ACCEPTING THE PUBLIC WORK KNOWN AS THE DOWNTOWN WATER MAINS REPLACEMENT PROJECT – HILLCREST NEIGHBORHOOD, 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 Downtown Water Mains Replacement Project – Hillcrest Neighborhood, 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 _____ 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:

_____
Carmen Avalos, 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___, _____

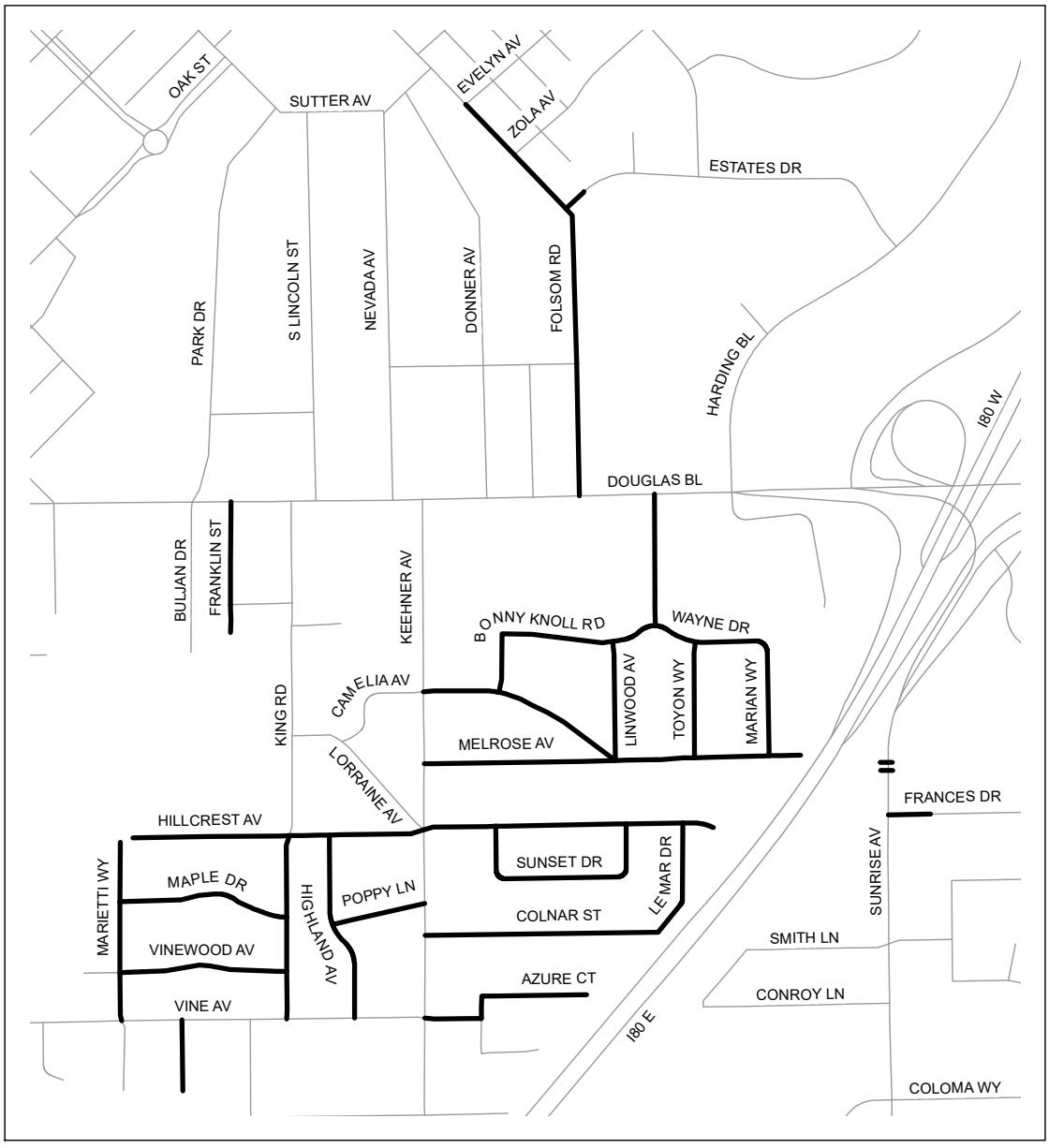
proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

_____

Place Notary Seal and/or Stamp Above

Signature of Notary Public

“EXHIBIT A”
DOWNTOWN WATER MAINS REPLACEMENT PROJECT
HILLCREST NEIGHBORHOOD



Water Mains Replacement

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COUNCIL COMMUNICATION

CC #: 2259
File #: 0900-02-02-2

Title:	Pleasant Grove Wastewater Treatment Plant Expansion Project - Change Order Authority Increase
Contact:	Tracie Mueller 916-774-5688 trmueller@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.8.

RECOMMENDATION TO COUNCIL

Staff recommends that City Council authorize the Environmental Utilities Director or his designee to approve and pay for contract change orders for the Design-Assist and Construction Agreement for the Pleasant Grove Wastewater Treatment Plant Expansion Project with W.M. Lyles Company that could increase the original contract amount of $54,400,000 by no more than 10%, or $5,440,000, up to a not-to-exceed total contract amount of $59,840,000.

BACKGROUND

The Pleasant Grove Wastewater Treatment Plant (PGWWTP) Expansion Project is currently under construction to add new primary clarification, additional solids handling, and new anaerobic digestion of primary solids and waste-activated sludge. The two new anaerobic digesters will produce digester gas that will be supplied to the PGWWTP Energy Recovery Project (which is being constructed as a separate project) for generation of renewable compressed natural gas (rCNG) to be used by the City's Waste Services collection vehicles as fuel, and production of electrical power to offset a portion of the PGWWTP's power demands.

The City awarded the Design-Assist and Construction contract on November 6, 2019. W.M. Lyles received the Notice to Proceed on November 13, 2019. Construction of the PGWWTP Expansion Project was expected to be completed June 20, 2022; however, based on the Contractor's progress, it is currently estimated that the project completion is now June 2023.

The City Council approved and awarded the Design-Assist and Construction Agreement to W.M. Lyles Company for the Project in the amount of $54,400,000 (Attachment A). In addition, the City Council authorized the Environmental Utilities Director or his designee to approve and pay for contract change orders for the Project that could increase the contract amount by no more than 5% or $2,720,000.

The current approved change orders on the Project total $215,816; however, the lump sum change orders to be processed are approximately $1,000,000, and it is anticipated that the

existing time and material change order work will be approximately $500,000. It is expected that the total change orders will continue to increase over the next 11 months of construction and could soon exceed the approved 5% allowance; therefore staff recommends increasing the change order allowance from 5% to 10% to assure there is enough contract allowance to complete this Project.

The cause of the Project construction changes is based on many factors including material suppliers issues, inefficiencies, City staff requested changes due to lessons learned or technology changes, City standards updates, unknown factors prior to construction, clarifications to the design documents, and other recommended improvements or negotiations related to the construction through the design-assist construction process.

FISCAL IMPACT

The cost for the agreement is $54,400,000 and any approved change orders will be expended over a 41-month period. Funding for this Project is provided under the capital improvement projects for South Placer Wastewater Authority (SPWA). The SPWA Board has authorized the Project and adequate budget to fund the requested increase in change order allowance from $2,720,000 to $5,440,000. This project is funded by the SPWA through regional wastewater connection fees collected by the Regional Partners (approximately 65% City of Roseville, 11% Placer County and 24% South Placer Municipal Utility District).

ENVIRONMENTAL REVIEW

Implementation of the PGWWTP Expansion Project was previously evaluated in the Pleasant Grove Wastewater Treatment Plant Expansion and Energy Recovery Project Final Initial Study/Mitigated Negative Declaration (IS/MND) (SCH# 2016122040) (certified by the City Council on April 6, 2017), and the Addendum to the IS/MND (SCH# 2016122040) (certified by the City Council on November 7, 2018). The improvement plans included in the design-assist and construction agreement are consistent with the project evaluated in the certified Final IS/MND and the Addendum, and consequently no additional CEQA action is required for the design-assist and construction agreement contract change order allowance approval.

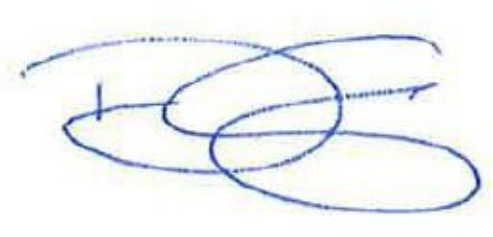
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Tracie Mueller, Senior Engineer

Richard Plecker, Environmental Utilities Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 22-322

Attachment A - Fully Executed Agreement Part One

Attachment A - Fully Executed Agreement Part Two

RESOLUTION NO. 22-322

APPROVING CHANGE ORDER AUTHORITY

WHEREAS, a Design-Assist and Construction Agreement for the Pleasant Grove Wastewater Treatment Plant Expansion Project ("Project") with W.M. Lyles Co. was approved by City Council in November 6, 2019; and

WHEREAS, at that time, staff was authorized to approve and pay for change orders up to five percent (5%) of the original amount of $54,400,000, or $2,720,000; and

WHEREAS, the current approved change orders on the Project total less than that, however, pending change orders and existing time and material change order work are anticipated to be in excess of that authority; and

WHEREAS, the cause of the Project construction changes is based on many factors including material suppliers issues, inefficiencies, City staff requested changes due to lessons learned or technology changes, City standards updates, unknown factors prior to construction, clarifications to the design documents, and other recommended improvements or negotiations related to the construction through the design-assist construction process.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that the City Manager or the Environmental Utilities Director 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 original amount of $54,400,000, or $5,440,000.

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

CITY OF ROSEVILLE CALIFORNIA

City Clerk
311 Vernon Street
Roseville, California 95678-2649

November 7, 2019

W.M. Lyles Company
PO BOX 4377
Fresno, CA 93744

RE: **DESIGN-ASSIST & CONSTRUCTION AGREEMENT – Pleasant Grove Wastewater Treatment Plant Expansion Project**

At the Roseville City Council meeting of November 6, 2019, the Roseville City Council approved the above referenced agreement between you and the City. Enclosed please find a fully executed agreement and a certified copy of Resolution Number 19-474.

If you have any questions, please contact Senior Engineer Tracie Mueller at 916-774-5688.

SONIA OROZCO, MMC
CITY CLERK

By:

Cary Busterna
City Clerk Technician

cc: Tracie Mueller/ Environmental Utilities

AGREEMENT FOR THE DESIGN-ASSIST AND CONSTRUCTION OF

Pleasant Grove Wastewater Treatment Plant Expansion Project

THIS AGREEMENT, made and entered into in duplicate, on November 6, 2019, by and between the CITY OF ROSEVILLE, a municipal corporation and located in Placer County, CA (hereinafter referred to as "City"), and W. M Lyles Co. (Lyles) (CSLB License #422390 A and B), doing business as a California corporation, hereinafter referred to as "Contractor").

RECITALS

WHEREAS, the City gave published NOTICE TO GENERAL CONTRACTORS requesting Statements of Pre-Qualifications ("SOPQ") to be submitted by April 1, 2019 for consideration by the City to become a Pre-Qualified Contractor approved by the City to submit a Bid Proposal for the design-assist and construction of the Pleasant Grove Wastewater Treatment Plant Expansion Project; and

WHEREAS, Contractor, pursuant to the provisions of said notice requesting Statements of Pre-Qualifications, submitted an SOPQ to the City and such SOPQ is included in this Agreement and made a part hereof as Exhibit A; and

WHEREAS, the City, based on the representations and statements made by Contractor in its SOPQ, approved the Contractor as a Pre-Qualified Contractor which allowed Contractor to submit a Bid Proposal for the design-assist and construction of the Pleasant Grove Wastewater Treatment Plant Expansion Project; and

WHEREAS, the City issued Request for Bid Proposals ("RFBP") to the approved list of Pre-Qualified Contractors to be submitted by July 29, 2019 to allow for the City to determine the best value ranking of all responsive and responsible Proposals using all technical information, required forms, cost information provided by Proposers in the Proposals, and other investigations by the City; and

WHEREAS, the Contractor, pursuant to the requirements of the City's RFBP submitted a Bid Proposal for the design-assist and construction of the Pleasant Grove Wastewater Treatment Plant Expansion Project and such Technical Bid Proposal is included in this Agreement and part hereof as Exhibit B; and

WHEREAS, the City, after an evaluation of all opened Bid Proposals, ranked the Contractor's Bid Proposal as the highest ranked and best value Bid Proposal, and after final negotiations with Contractor, issued a written Notice of Intent to award a Contract to the Contractor on October 31, 2019 for the design-assist and construction of the Pleasant Grove Wastewater Treatment Plant Expansion Project; and

WHEREAS, at a regular meeting of the City Council held on the 6th day of November, 2019 by Resolution ~~2019~~ 19-434 the City Council found and declared the Bid Proposal of Contractor to be the highest ranked best value Bid Proposal and thereupon awarded this Agreement to the Contractor for the construction of the Pleasant Grove Wastewater Treatment Plant Expansion Project; and

WHEREAS, the Contractor is ready, willing and able to perform the aforementioned services required in accordance with the terms and conditions of this Agreement; and

NOW, THEREFORE, the City and Contractor agree as follows:

ARTICLE 1 - DEFINITIONS OF LANGUAGE USED, WORDS AND TERMS

Where used in the Contract Documents, the following words and terms shall have the meanings indicated. The meanings shall be applicable to the singular, plural, masculine and feminine of the words and terms.

The Contract Documents include the terms "as allowed," "as approved," "as ordered", "as directed" or terms of like effect to authorize an exercise of professional judgment by the City, Construction Manager or Engineer. In addition, the adjectives "reasonable," "suitable," "acceptable," "proper," "satisfactory," or adjectives of like effect are used to describe an action or determination of the City, Construction Manager or Engineer as to the Work. It is intended that such exercise of professional judgment, action or determination will be solely to evaluate, in general, the Work for compliance with the requirements of and information in the Contract Documents and conformance with the design concept of the completed Project as a functioning whole as shown or indicated in the Contract Documents (unless there is a specific statement indicating otherwise). The use of any such term is not intended to and shall not be effective to assign to City, Construction Manager or Engineer any duty or authority to supervise or direct the performance of the Work or any duty or authority contrary to the other provisions of the Contract Documents.

Specification Section Paragraphs entitled "Section Includes" summarize briefly what is generally included in the section. Requirements of Specifications are not limited by "Section Includes" paragraphs. Specifications and Drawings have been partially streamlined by intentionally omitting words and phrases, such as "the Contractor shall," "in conformity therewith," "shall be" following "as indicated," "a," "an," "the" and "all." Phrase "by City's Representative" or "by Engineer" or "by Construction Manager" modifies words such as "accepted," "directed," "selected," "inspected," and "permitted," when they are unmodified.

Phrase "to City's Representative " or "to Engineer" or "by Construction Manager" modifies words such as "submit," "report," and "satisfactory," when they are unmodified.

Words "Contractor shall" are implied when direction is stated.

Colons (:) are used to introduce a list of particulars, an amplification, or an illustrative quotation:

1. When used after designation of product, colons are used in place of words "shall be."

Whether the term or phrase is capitalized or in all capitals (for example, Contractor or CONTRACTOR) in the Contract Documents shall be deemed to be the same for purposes of the Definitions of Language Used, Words and Terms.

Agreement. This Agreement for design-assist and construction of the Pleasant Grove Wastewater Treatment Plant Expansion Project, its exhibits, all documents incorporated therein, and all amendments and/or modifications hereto executed by the parties concerning the performance of the Work and the furnishing of labor, equipment, materials and incidentals in the construction of the Work. This Agreement supersedes all prior negotiations, representations, and/or agreements, whether written or oral.

Allowance. "Allowance" shall mean an amount of money set aside under the Contract for a special purpose identified and defined in the Contract Documents. See Exhibit D, ALLOWANCES AND ALLOWANCE AMOUNTS.

Applicable Laws. All laws, codes, ordinances, rules and regulations of governmental authorities having jurisdiction over the Site and/or the Work.

Application for Payment. A document prepared by Contractor and submitted to the City showing Contractor's entitlement to payments, the requirements of which are more fully described in Article 12.3, Applications for Payment.

Asbestos. Any material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by the United States Occupational Safety and Health Administration.

Beneficial Occupancy. Beneficial occupation or "Beneficial Occupancy" is a term that can be used to describe a distinct portion of the Work, that in the City's Representative's opinion, is capable of being used for its intended purpose, even though it may have some minor deficiencies, including outstanding punch list items to complete.

Bid Proposal. The offer of a Proposer to perform the Work pursuant to completed prescribed Bid Proposal requirements and forms, properly executed and guaranteed, and timely submitted.

Bonds: Labor and Material Bond, Performance Bond, and Warranty Bond. The payment bond (Labor and Materials Payment Bond) and Performance Bond issued by an admitted Surety covering the faithful performance and completion of the Work, including payment for all materials and labor furnished or supplied in connection with the Work, by Contractor. The Labor and Material Bond shall be in an amount equal to one hundred percent (100%) of the GMP and shall be for payment of just claims for materials, equipment, labor and subcontractors employed by the Contractor thereon. See Exhibit G, FAITHFUL PERFORMANCE BOND; Exhibit H, LABOR AND MATERIAL PAYPMENT BOND; and Exhibit I, WARRANTY BOND.

The Faithful Performance Bond shall be in an amount equal to one hundred percent (100%) of the GMP and shall be for the faithful performance of the Agreement, and for the fulfillment of such other requirements as may be provided by Law.

The Warranty Bond shall be issued by an admitted Surety and be in the penal sum equal to ten percent (10%) of the GMP.

The surety company shall familiarize itself with all of the conditions and provisions of this Agreement, and it waives the right of special notification of any change or modification of this Agreement or of extension of time, or of decreased or increased work, or of the cancellation of the Agreement, or of any other act or acts by the City or its authorized agents under the terms of this Agreement; and failure to so notify the aforesaid surety companies of changes shall not relieve the surety companies of their obligations under this Agreement.

All premiums for the Performance Bond, Labor and Materials Payment Bond, and Warranty Bond shall be included in the Cost of the Work and GMP. The City shall have the right to withhold any payment(s) under this Agreement until Contractor has fully complied with all bonding requirements.

Business Day. "Business Day" means any day when the office of the City Clerk of the City of Roseville is open for business.

Change Order. A document which is signed as recommended by the Construction Manager, accepted by the Contractor, and accepted by an authorized representative of the City, which authorizes an addition, deletion, or revision in the Work or an adjustment in the Guaranteed Maximum Price (GMP) or the Contract Time, issued on or after the Effective Date of the Agreement.

City. The word "City" refers to the City of Roseville, the governing body of which is termed the "City Council".

City's Representative. The person(s) designated by the Director of the City's Environmental Utilities Department who has been duly authorized to exercise control and supervision of the Work. A City's Representative generally will be either a professional engineer or architect, depending on the nature of the Work, but is not required to be a professional engineer or architect.

Claim. A demand or assertion by the Contractor seeking an adjustment of the GMP or Contract Times, or both, or other relief with respect to the terms of the Agreement. A demand for money or services by a third party is not a Claim.

Construction Change Directive (CCD). A CCD is a written order prepared by the Construction Manager and signed by the City, directing a change in the Work and stating a proposed basis for adjustment, if any, in the Contract GMP amount or Contract Time.

Construction Manager. The person designated, in writing, by the City to act as its representative at the Site and to perform administrative functions relating to this Agreement. The Construction Manager shall also furnish inspection services as provided by the contract between the Construction Manager and the City. All contact by the Contractor with the City shall be through the Construction Manager; unless otherwise specified or directed. Only the City may modify the Agreement.

Contract Documents. The "Contract Documents" shall consist of the following documents and all documents incorporated therein:

- Request for Bid Proposal (including the appendices)
- Agreement (including exhibits A-L attached thereto);
- General Requirements (Division 1);
- Technical Specifications (Divisions 2 through 46);
- Appendices included with Technical Specifications;
- Contract Drawings, prepared by Engineer;
- Addenda issued during the RFBP period; and
- Permits from other agencies specifically required for the performance of the Work as may be required by law.
- City of Roseville's most current version (and Amendments to the current version) of Construction Standards and Design Standards
- Other Referenced Standard Specifications;
- Other Referenced Standard Plans

Exhibits to this Agreement (enumerated as follows):

- Exhibit A - Contractor's SOPQ dated April 1, 2019 excluding the financial statement;
- Exhibit B - Contractor's Technical Bid Proposal dated July 29, 2019 excluding Sections 7 through 11 and the appendices;
- Exhibit C - Guaranteed Maximum Price, Cost of Work and Fees;
- Exhibit D - Allowances and Allowance Amounts;
- Exhibit E - Designation of Subcontractors;
- Exhibit F - Completion Times and Liquidated Damages;
- Exhibit G - Faithful Performance Bond;
- Exhibit H - Labor and Materials Payment Bond;
- Exhibit I - Warranty Bond;
- Exhibit J - Escrow Agreement For Security Deposits In Lieu of Retention;
- Exhibit K - Workers' Compensation Insurance Certification;
- Exhibit L - Contractor's Insurance Certificates;

The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:

- Notice to Proceed;
- Field Directive(s);
- Change Order(s);
- Construction Change Directive;

- Field Order(s).

There shall be no Contract Documents other than those listed above.

The Contract Documents are complementary; what is called for by any one of the documents is as binding as if called for by all the documents. It is the intent of the Drawings and Specifications to describe the Work to be constructed in accordance with the requirements of the Contract Documents. Any work, materials or equipment that may reasonably be inferred from the requirements of the Contract will be furnished and performed whether or not specifically called for. When words or phrases that have a well-known technical or construction industry or trade meaning are used to describe Work, materials or equipment, such words or phrases shall be interpreted in accordance with that meaning. The intent of the Drawings specifically includes the intent to depict construction that complies with all applicable laws, codes and standards. Subject to applicable law, including but not limited to California Public Contract Code Section 4100 et seq., and the terms of this Contract governing subcontracting, the Divisions and Sections of the Specifications and identifications of any Drawings shall not control Contractor in dividing the Work among subcontractors or suppliers or delineating the work to be performed by any specific trade.

Reasonably implied parts of the Work shall be performed as "incidental work" even though absent from the Drawings and Specifications. "Incidental" work shall be performed by Contractor and included in the Cost of the Work without an increase in the GMP. Incidental work includes any work not shown on Drawings nor described in Specifications, but which is necessary or normally or customarily required as a part of the Work shown on the Drawings or described in the Specifications to provide a complete installation which is fully connected and tied into the existing facilities and processes and is fully functional and operational. Incidental work shall be treated as if fully described in Specifications and shown on Drawings, and expense thereof shall be included in the GMP. Incidental work includes, but is not limited to, tasks required to be performed under Division 1, GENERAL REQUIREMENTS of the Specifications.

The technical specifications are presented in paragraphs for convenience. However, this presentation does not necessarily delineate trades or limits of responsibility. All paragraphs of the Specifications and Plans are interdependent and applicable to the Work as a whole.

The Specifications and all notes on the Drawings are directed to the Contractor unless otherwise indicated, and all work shall be performed by the Contractor even though phrases such as "the Contractor shall" or "shall be done by the Contractor" are omitted. Where terms such as "approved," "acceptable," "favorably reviewed," "review," "selected," "directed," "equivalent," "equal," or "satisfactory" are used, it shall mean by or to the Construction Manager and/or City's Representative and/or Engineer.

In resolving conflicts resulting from errors or discrepancies in any of the Contract Documents, the order of precedence shall be as follows:

(1) Permits from other agencies specifically required for the performance of the Work as may be required by law;
(2) Supplemental Agreements and Change Orders, the one dated later having the precedence over another dated earlier;
(3) Agreement;
(4) General Requirements (Sections 01 11 00 through 01 99 90);
(5) Technical Specifications (Division 2 and all other Divisions following);
(6) Contract Drawings;
(7) City of Roseville's most current version of Construction Standards and Design Standards and Amendments to the Current Version
(8) Other Referenced Standard Specifications;
(9) Other Referenced Standard Plans.

With reference to the Drawings, the order of precedence is as follows:

(1) Addenda/Change Order drawings govern over any other drawings;
(2) Enumerated dimensions govern over scaled dimensions;
(3) Detail drawings govern over general drawings; and
(4) Contract Drawings govern over standard drawings/plans.

The provisions of the Contract Documents shall take precedence over any Laws or Regulations applicable to the performance of the work unless such an interpretation of the provisions of the Contract Documents would result in a violation of such Law or Regulation.

Contract Time. The number of days or the dates stated in the Agreement to: (i) achieve Milestones, if any, (ii) achieve Substantial Completion; and (iii) complete the Work so that it is ready for final payment as evidenced by Construction Manager's written recommendation of final payment. See Exhibit F, COMPLETION TIMES AND LIQUIDATED DAMAGES.

Contractor. The individual, partnership, corporation or limited liability company who enters into the Agreement for the performance of the Work. The term "Contractor" means the Contractor or his authorized representative. The term "Contractor" also may include subcontractors, sub-tier subcontractors, consultants, equipment and material suppliers, and their employees.

Contractor's Plant and Equipment. The equipment, material, supplies and all other items, except labor, brought onto the Site by the Contractor to carry out the Work, but not to be incorporated in the Work.

Cost of the Work. Consists of those items of Work, which are paid for by City to Contractor, and consist of those categories of costs set forth as allowable on Exhibit C, GUARANTEED MAXIMUM PRICE, COST OF WORK AND FEE. The "Actual Total Cost of the Work" is the aggregate amount of costs and fee actually chargeable to City under the provisions of Exhibit C, GUARANTEED MAXIMUM PRICE, COST OF WORK AND FEE, up to the GMP.

County. Refers to Placer County where the Site is located.

CPM. A critical path method schedule in the form of precedents, networks, and time sequences.

Days. The word "Days" shall mean calendar days, including legal holidays, Saturdays and Sundays, unless specifically noted otherwise. The day shall be 24 hours measured from midnight to the next midnight.

Defective Work. Defective Work refers to Work that does not meet the requirements of the Contract Documents and has been identified to the Contractor by the Construction Manager in writing because the Work:

A. Does not meet the requirements of or conform to the Contract Documents; or

B. Does not meet the requirements of any applicable inspection, reference standard, test, or approval referred to in the Contract Documents; or

C. Has been damaged prior to Construction Manager's or Engineer's recommendation of final payment (unless responsibility for the protection thereof has been assumed by City as of the Substantial Completion date in accordance with the Contract Documents).

Punch list or other minor corrective items of work that are not in compliance with the Contract Documents do not meet to the definition of "Defective Work" as used in these Contract Documents. For work to be deemed "Defective Work," the Construction Manager must have notified the Contractor in writing of a

defective item of the Work.

Engineer. The engineer, architect or specialty design consultant designated by the City to have design control over the Work or a specified portion of the Work, acting either directly or through duly authorized representatives. Such representatives shall act within the scope of the particular duties delegated to them. The Engineer may also furnish inspection services as provided by the Agreement. The Engineer may also be referred to as the "City's Representative " if the definition is used in an Engineer role and capacity. For the purposes of this Agreement, the Engineer is Kennedy Jenks Consultants, Inc.

Direct. Action of the City or Construction Manager by which the Contractor is ordered to perform or refrain from performing work under the Agreement.

Drawings. Also referred to as "Plans." That part of the Contract Documents consisting of the graphical and technical requirements of the Agreement as included on the plan, profile, section and detail sheets, included in a response to Request for Information or any revisions issued by Engineer. Drawings, or reproductions thereof, show the location, character, dimensions and details of the Work to be done. Shop drawings and other Contractor submittals are not Drawings as so defined.

Equipment. (Construction): All machinery and equipment, together with the necessary supplies for upkeep and maintenance, including tools and apparatus necessary for the proper construction and acceptable completion of the Work contemplated. (Installation): All material or articles used in equipping a facility or apparatus required to fulfill a functional design.

Execution. Field or site performance, workmanship, installation, erection, application, field fabrication, quality control, and protection of installed products on the Site.

Extra Work. New or unforeseen work, or added work of a different character or function; or that involves revisions of the details of the Work on which Contractor based its GMP. If the extra work increases the Contractor's Cost of the Work and/or time to perform the Work, and is approved by the City via a written Change Order, the GMP and/or Contract Times shall be adjusted as provided in the Contract Documents. Extra Work shall not include Work which is shown, detailed or specified in the Contract Documents or which constitutes "Incidental Work" as defined within the Contract Documents definition above.

Fee. As applicable, means the fee payable to Contractor pursuant to this Agreement and as part of the GMP, as shown on Exhibit C, GUARANTEED MAXIMUM PRICE, COST OF WORK AND FEE.

Field Directive. A change in the scope of the Agreement that does not cause an increase in the Cost of the Work, nor an adjustment to the GMP or the Contract Time(s), unless the Construction Manager determines the Field Directive warrants a Change Order. Also referred to as a "Directive".

Field Order. A written instruction given to the Contractor by Construction Manager authorizing work that is a change to the scope of Work to be performed on a time and material basis or a lump sum cost agreed to between City and the Contractor.

Final Acceptance. Formal approval by City in accepting a portion of the Contractor's work as completed.

Final Completion. The date when the Work is 100% complete, including completion and acceptance of all punch list corrections, as certified by the Construction Manager.

Force Majeure. Force Majeure includes industry wide or nationwide labor dispute (excluding labor shortage), fire, unusual delay in transportation or delivery, unavoidable casualty, flood (assuming Contractor has taken reasonable precautions), earthquake, epidemic, civil disturbance, war, freight embargo, riot, sabotage (by persons other than Contractor or subcontractors), material shortage or any other similar act or condition, in each case only to the extent the event in question is beyond the reasonable control of and without the fault or negligence of Contractor. It is expressly agreed that the following matters

shall not constitute Force Majeure:

- Lack of or inability to use funds for any reason;
- Any occurrence which results from the wrongful act, or wrongful omission, of the affected party, or the failure by the affected party to act in a prudent and proper manner and in accordance with good and accepted industry practices;
- Any failure by the affected party to reach agreement with any third party necessary to enable the affected party to perform its obligations under this Agreement;
- An event or circumstance, where the event or circumstance, or its effects on the affected party, or the resulting inability of the affected party to perform its obligations could have been prevented, overcome or remedied by the exercise by the affected party of the standard of care and diligence consistent with that of a reasonable and prudent person;
- Breakdown of Contractor's Equipment;
- Strike or industrial action of Contractor's employees or those of subcontractors; or
- Adverse weather conditions including, without limitation, wet weather, unless the weather is unusually severe for the Site.

Funding Agency or Funding Agencies. A government agency or agencies that the City is in contract with or planning to execute a contract with to obtain construction funds for financing of the Project. For this Project this includes the State Water Resources Control Board (SWRCB) including the United States Environmental Protection Agency (USEPA), the State of California and the California Infrastructure and Economic Development Bank that fund and administer the Clean Water State Revolving Fund (CWSRF) Program.

Furnish. The word "furnish" when used in connection with services, materials, or equipment, shall mean to supply and deliver specified services, materials, or equipment to the Site (or some other specified location) ready for use or installation and in usable or operable condition.

Guaranteed Maximum Price or "GMP". The amount set forth on Exhibit C, GUARANTEED MAXIMUM PRICE, COST OF WORK AND FEE, hereto, which may be increased or decreased in accordance with the provisions of the Contract Documents.

General Requirements. Division 1, GENERAL REQUIREMENTS, which forms the part of the Contract Documents establishing special conditions or requirements peculiar to the Work.

Hazardous Waste. The term Hazardous Waste shall include the meaning provided in Section 100 of the Solid Waste Disposal Act (42 USC Section 6903 and/or Section 25117 of the California Health and Safety Code) as amended from time to time, or any other hazardous material, hazardous waste, hazardous substance, pollutant, and/or contaminant with requirements under federal, State of California, or local law, statute, regulation, rule, ordinance, order, action, policy or common law.

Herein. Refers to information presented in the Contract Documents.

Hold Harmless. An agreement by one (1) party to indemnify and defend a second party when the second party is sued by a third party as a result of the first party's actions or inactions.

Holidays. The legal holidays as designated by the City including: New Year's Day, Martin Luther King Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, the day after Thanksgiving and Christmas Day.

Inspector. Inspector shall mean the person(s), firm(s), or agency(ies) employed by the City to perform inspection during construction of the Work, under the direction of the Construction Manager. It shall also mean any representative of the City who will perform inspections of the Work for code compliance and quality assurance reporting in addition to those inspections performed by the City's Representative and/or the Engineer. Said inspector may be the Construction Manager or may be another representative of the

City.

Install. The word "install" when used in connection with services, materials, or equipment, shall mean to put into use or place in final position the services, materials, or equipment, complete and ready for intended use.

Laws and Regulations; Laws or Regulations. Any and all applicable laws, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction over the Site or the Work.

Liens. Charges, security interests, or encumbrances upon Project funds, or personal property.

Liquidated Damages. The amount of dollars assessed for each and every calendar day required to complete the Agreement in excess of the Contract Time. See Exhibit F, COMPLETION TIMES AND LIQUIDATED DAMAGES.

May. "May," wherever or in whatever manner used, refers to permissive actions.

Milestone. An event specified in the Contract Documents relating to an intermediate completion date or time prior to Final Completion of all the work.

Notice of Completion. Formal action taken by the City in determining that the Contractor's Work has been completed, or as delegated pursuant to a City Council resolution, accepting the Work as fully completed. The written notice is signed by the City and filed with the County Recorder.

Notice to Proceed. A written notice given by the City to the Contractor fixing the date on which the Contract Times will commence to run and on which Contractor shall start to perform the Work under the Contract Documents.

Or Equal. Any product, equipment, material, thing, service, mean/method or service which is proposed by the Contractor for use in the Work, which is equal to or better than, and is as suitable as the product, equipment, material, thing, service, mean/method or service specified in the Contract Documents as to function, performance, reliability, quality, schedule and general configuration. Any "or equal" substitutions must be approved by the City.

Paragraph. For reference or citation purposes, a paragraph shall refer to the paragraph, or paragraphs, called out by paragraph number and alphanumeric designator.

Party. The City or the Contractor individually, and "Parties" shall mean the City and the Contractor collectively.

Perform. Refer to "Provide."

Person. The term, "person", includes firms, companies, corporations and partnerships.

Plans. See "Drawings."

Preconstruction Services. Work performed prior to the issuance of first Drawing(s) for construction to the Contractor, which shall initiate the start of construction services.

Prejudiced. As used herein, the term "Prejudiced" shall include, but is not limited to, material interference with the City's timely consideration of action to prevent increases in the cost or time required to perform the Work, ability to monitor the Contractor's increased costs resulting from the situation, to timely marshal facts, and to timely plan its affairs.

Product Data. Type of Shop Drawing comprised of standard illustrations, schedules, performance charts, instructions, brochures, diagrams, catalog cuts, and other information assembled by or for the Contractor and submitted by the Contractor to illustrate materials or equipment for some portion of the Work.

Products. Materials, equipment, systems, shop fabrications, mixtures, and source controls.

Progress Schedule. A schedule, prepared and maintained by the Contractor, describing the sequence and duration of the activities comprising of the Contractor's plan to accomplish the Work within the Contract Times.

Project. The design-assist and construction of the Pleasant Grove Wastewater Treatment Plant Expansion Project, together with all on-site infrastructure, site improvements and appurtenances to be designed, constructed and installed in connection therewith, as more fully set forth and described in the Contract Documents and as required thereby or reasonably inferred therefrom.

Proposer. Any individual, firm, partnership, corporation or limited liability company, submitting a Bid Proposal for the Work contemplated, acting directly or through a duly authorized representative.

Provide. The words "provide" or "perform," when used in connection with services, materials, or equipment, shall mean to furnish and install said services, materials, or equipment complete and ready for intended use. When "furnish," "install," "perform," or "provide" is not used in connection with services, materials, or equipment in context clearly requiring an obligation of Contractor, "provide" is implied.

Punch List. Those minor items of work to be completed after Substantial Completion and prior to Final Completion, which do not prevent others from taking over defined areas of the Work to complete the Project.

Reference Specifications. Those standards, rules, method of tests or analysis, codes, and specifications of other agencies, engineering societies, or industrial associations referred to in the Contract Documents.

Request for Information. Also referred to as "Request for Clarification". A Request for Information (RFI) is issued by the Contractor to the Construction Manager requesting additional information necessary to clarify or amplify an item in the Contract Documents that the Contractor believes is not clearly shown or called for in the Drawings or Specifications or other portions of the Contract Documents, or to address problems which have arisen under field conditions. A RFI is not to be used for request for materials/equipment substitutions or value engineering/cost reduction incentive proposals.

Request for Quotation. A request for a proposed cost made to the Contractor by the City to add, delete or change the Work. A Request for Quote (RFQ) shall not be deemed to be a direction to proceed with any addition, deletion or change to the Work.

Samples. Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and which establish the standards by which such portion of the Work will be judged.

Separate Contractors. Those individuals or entities (including, but not limited to, concessionaires) who have entered into arrangements with City for the provision of labor, materials or other services in connection with the Project or other projects. The terms "Others" or "Energy Recovery Project Contractor" or "ERP Contractor" may also be used to indicate "Separate Contractors".

Shall or Will. Refers to actions entered into by the Contractor or the City as a covenant with the other party to do or to perform the action.

Shop Drawings (Submittals). Shop drawings (submittals) are drawings, diagrams, illustrations, schedules, performance charts, instructions, brochures, and other data which are prepared by the Contractor or any

subcontractor, manufacturer, supplier, or distributor and which illustrate some portion of the Work.

Shown. Refers to information presented on the drawings, with or without reference to the drawings.

Site. Lands or areas indicated in the Contract Documents as being furnished by City upon which the Work is to be performed, including rights-of-way and easements for access thereto, and such other lands furnished by the City which are designated for the use of Contractor.

Specifications. That part of the Contract Documents consisting of written descriptions of the technical features of materials, equipment, construction systems, standards, and workmanship.

Specify. Refers to information described, shown, noted or presented in any manner in any part of the Agreement.

State. State of California.

State of California Specifications. The State of California Department of Transportation Standard Specifications in effect as documented in the Specifications and/or Drawings. Also referred to as State Standard Specifications and Caltrans Standard Specifications.

Subcontractor. An individual or entity who has entered into an agreement with Contractor or another subcontractor for the provision of labor, materials or other services required to be performed by Contractor under the Contract Documents. The term subcontractor does not include any separate contractor or any separate contractor's subcontractors.

Submittals. The information which is specified for submission to the Construction Manager in accordance with the Contract Documents.

Substantial Completion. Sufficient completion of the Project or the portion thereof to permit a utilization of the Project. Determination of Substantial Completion is solely at the discretion of the City. Substantial Completion does not mean complete in accordance with the Agreement nor shall Substantial Completion of all or any part of the Project entitle the Contractor to Final Completion under the Agreement.

Substantial Completion Date. Date when the City puts into service, the Project or that portion of the Project that has been determined to be Substantially Complete.

Sub-subcontractor. A sub-subcontractor is a person or entity who has a direct or indirect contract with a subcontractor to perform any of the Work associated with the Project. The term sub-subcontractor means a sub-subcontractor or an authorized representative thereof, also referred to as subtier-subcontractor.

Supplier. A manufacturer, fabricator, supplier, distributor, materialman, or vendor having a direct contract with Contractor or with any subcontractor to furnish materials or equipment to be incorporated in the Work by Contractor or any subcontractor.

Surety. One or more issuers of the Labor and Material Payment, Faithful Performance, and Warranty Bonds, each of which shall be admitted and licensed to do business in the State of California.

Surveyor. A land surveyor licensed in the State of California.

Trade Names. Where a certain product is called by its Trade Name, it is intended as a guide for type and quality.

Typical Details. Details of standard structures, devices or instructions referred to on the Plans and Specifications by title or number and developed by the Engineer.

Underground Facilities. All underground pipelines, including but not limited to, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or attachments, and any encasements containing such facilities, including those that convey electrical, gases, steam, liquid petroleum products, telephone or other communications, cable television, water, wastewater, storm water, other liquids or chemicals, or traffic or other control systems.

Unit Price Work. Work to be paid for on the basis of unit prices.

Utility. Public or private fixed works for, including but not limited to, the transportation of fluids, gasses, power, signals, or communications.

Work. Any and all direct and/or incidental obligations, duties, and responsibilities necessary to complete the design-assist and construction assigned to, or undertaken by, the Contractor pursuant to the Contract Documents including all labor necessary to produce such construction and all materials, equipment, and supplies incorporated or to be incorporated in the construction. Also, the completed construction or parts thereof required to be provided under the Contract Documents to provide a complete installation which is fully connected and tied into the existing facilities and processes and is fully integrated, functional and operational.

Work Day. A working day is defined as any day, except Saturdays, Sundays and City's Legal Holidays. Any work scheduled by the Contractor on non-working days (Saturdays, Sundays, and City Legal Holidays) shall be verified with the City at least 72 hours in advance. Depending on the circumstances, the City may request Contractor compensation for inspection work, at an hourly rate, for any work performed on non-working days and for overtime.

Work Site. Any and all areas where Work is be performed by Contractor as required in the Contract Documents with particular emphasis of Work performed at or adjacent to the City's Pleasant Grove Wastewater Treatment Plant located at 5051 Westpark Dr. Roseville, CA 95747.

ARTICLE 2 - SCOPE OF WORK

The City, in conjunction with its Engineer and other consultants, developed the Design-Assist and Construction of the Pleasant Grove Wastewater Treatment Plant Expansion Project Contract Documents. The Contract Documents include the RFBP, this Agreement, Drawings, Specifications, and supplemental information to present the City's Final Design Submittal and timeline to meet the City's needs at the City's Pleasant Grove Wastewater Treatment Plant for this Project.

The Work includes but is not limited to construction of four new primary clarifiers with odor control facilities and an electrical building, a solids thickening building, sludge pumping systems, two anaerobic digesters and a digester control building, a waste gas burner, two boilers, conversion of two waste activated sludge holding tanks to a centrate storage and digested sludge holding tank, a centrate wet well and associated pump system, a ferric chloride dosage and storage facility, all interconnecting and associated yard piping, electrical and instrumentation duct banks, and all other miscellaneous improvements in support of the Project, including asset management, start up and testing to provide a complete, integrated and operational system in all respects.

Based on the Final Design Submittal, and in accordance with the Contract Documents, the Contractor will work with the City, Engineer, Construction Manager and possibility other personnel that have regulatory and/or funding authority and as a Design Assist Team member and complete the following design assist activities:

- Conduct a constructability review of the Final Design Submittal Drawings and Specifications, and submit comments and identified mitigation solutions to the City.

- Identify cost savings and added value alternative design/construction solutions, and submit to the

City for evaluation.

- Develop detailed cost estimates for identified alternatives when requested by City for the City's evaluation.
- Identify construction sequencing and the impacts of the identified alternatives on the sequencing.
- Develop a detailed schedule and the impacts of the identified alternatives on the schedule.
- Participate in a cooperative partnership relationship with City, Engineer, and Construction Manager to develop a comprehensive construction plan to address project risk and minimize existing facility disruptions.
- Participate in up to twenty (20) Final Design Coordination Meetings lasting up to four (4) hours each to present and work collaboratively to allow for issuance of the Project Drawings and Specifications for construction.

Note that the Engineer is the entity professionally responsible for the design of the Project. City acknowledges that Contractor is a general contractor and not an architect or engineer. Except with respect to any subcontractors of Contractor providing architectural or engineering services for the Project as design-build work, the Contractor's review of or input for any design documents, or Contractor's recommendation for any design concepts, is made solely in Contractor's capacity as a licensed contractor and not as a licensed design professional. Contractor is not responsible for any errors in the Engineer's design or failure of the design to comply with applicable laws, codes, rules and regulations, or lawful orders of public authorities. However, if Contractor observes any such nonconformity or errors it shall promptly notify City's Representative and the Engineer.

This City is working with the SWRCB to obtain CWSRF Program Project funding. Compliance with Funding Agency requirements contained within the Contract Documents RFBP and Specifications is required as part of the Contractor's Scope of Work. Whether listed or not in the Contract Documents, the Contractor shall meet the CWSRF requirements and cooperate in partnership with the City and Engineer as required to obtain grant and/or loan funding and payments.

In accordance with the timeline found in See Exhibit F, COMPLETION TIMES AND LIQUIDATED DAMAGES, the Contractor will commence construction at the Site of the Work on portions of the Work based on partial Construction Documents, provided these documents have been approved by the City and the Engineer. The Contractor shall provide all supervision, testing, construction, equipment, labor, materials, tools, subcontractors and services to complete the construction within the Contract Times listed in See Exhibit F, COMPLETION TIMES AND LIQUIDATED DAMAGES.

The Contractor is solely responsible for the proper handling, storage, installation, testing and demonstration; all in accordance with the Contract Documents and each manufacturer's recommendations/instructions. Failure to meet any performance requirement due to improper handling, storage, installation, testing or demonstrating will be corrected by the Contractor without an increase to the GMP.

ARTICLE 3 – CITY'S REPRESENTATIVE AND CITY'S CONSULTANTS

3.1 City's Representative. The City's Director of the Environmental Utilities Department has designated Tracie Mueller to act as the City's Representative. The City may change the individual(s) acting as the City's Representative(s), or delegate one or more specific functions to one or more specific City's Representative at any time without notice and without liability to Contractor. Each City's Representative is the beneficiary of all Contractor obligations to City, including without limitation, all releases and indemnities.

3.2 Engineer. The City has designated Kennedy Jenks Consultants, Inc. to act as the Engineer. The City may assign all or part of the City's Representative's duties, rights and responsibilities to the Engineer. The Engineer is the beneficiary of all Contractor obligations to City, including without limitation, all releases and indemnities.

3.3 Construction Manager. The City has designated Brown and Caldwell to act as Construction Manager. The City may assign all or part of the City's Representative's duties, rights and responsibilities to the Construction Manager. The Construction Manager is the beneficiary of all Contractor obligations to City, including without limitation, all releases and indemnities.

3.4 Construction Consultant. The City may retain, a Construction Consultant(s) as it deems necessary to assist/advise the City staff and/or other City consultants during the progress of the Work. Any Construction Consultant retained by City for this Project will not have any formal contract administration responsibilities. The Construction Consultant(s) is the beneficiary of all Contractor obligations to City, including without limitation, all releases and indemnities.

ARTICLE 4 - CONTRACTOR'S REPRESENTATIONS

4.1 Representations and Warranties. In order to induce the City to enter into this Agreement, Contractor makes the following representations and warranties:

A. Contractor has visited the Site, has observed, familiarized itself with and understands the nature and extent of the Contract Documents, Work, Site, locality, actual conditions apparent upon reasonable observation, visible as-built conditions, and local conditions, and federal, state and local laws and regulations that in any manner may affect cost, progress, performance or furnishing of Work or which relate to any aspect of the means, methods, techniques, sequences or procedures of construction to be employed by Contractor and safety precautions and programs incident thereto.

B. Contractor has correlated its knowledge and the results of all such observations, examinations, investigations, explorations, tests, reports and studies with the terms and conditions of the Contract Documents in its capacity as a contractor and not as an architect or engineer.

C. Contractor has given City prompt written notice of all conflicts, errors, ambiguities, or discrepancies that it has discovered in or among the Contract Documents and record drawings and actual conditions in its capacity as a contractor and not as an architect or engineer.

D. Contractor is duly organized, existing and in good standing under applicable state law, and is duly qualified to conduct business in the State of California, including, but not limited to, maintaining in good standing its Contractor's license issued by the State of California.

E. Contractor has represented to the City that it has significant knowledge and experience and the requisite expertise, skills, labor, equipment, capabilities and all other necessary resources required to perform the Work.

F. Contractor has duly authorized the execution, delivery and performance of this Agreement, the other Contract Documents and the Work to be performed herein. The Contract Documents do not violate or create a default under any instrument, agreement, order or decree binding on Contractor.

The failure or neglect of Contractor to receive or examine any of the Contract Documents shall in no way relieve it from any obligation with respect to the Contract, and no claim for additional compensation or time will be allowed which is based upon a lack of knowledge of any Contract Documents.

Moreover, the Contractor acknowledges that its observation of the Site prior to the execution of the Agreement has provided information related to existing conditions, as described in paragraph 4.1.A, above, which may affect cost, progress or performance of the Work. Contractor further acknowledges and agrees that, in executing the Agreement, it is relying on its own observation of (1) the Site of the Work, (2) access to the Site, (3) all other data and matters requisite to the fulfillment of the Work and on its own knowledge of existing facilities on and in the vicinity of the Site of the Work to be constructed under the Agreement, (4) the conditions to be encountered, (5) the character, quality and scope of the proposed Work, (6) the quality and quantity of the materials to be furnished, and (7) the requirements of the Contract Documents, and other related information made available to Contractor by the City.

4.2 Supplementary Information. The Contractor hereby acknowledges that, prior to the execution of the Agreement, City has furnished the following Supplementary Information. These Supplementary Information documents are not part of the Contract Documents.

- Final Geotechnical Report for Pleasant Grove Wastewater Treatment Plant Expansion, Roseville, California dated May 2007 prepared by Fugro USA Land, Inc.
- Geotechnical Update Letter Report for the Pleasant Grove Wastewater Treatment Plant Expansion dated March 9, 2017 prepared by Fugro USA Land, Inc.
- Pleasant Grove Wastewater Treatment Plan Plant Record Drawings electronic pdf file (931 pages), City file number 404-50

ARTICLE 5 - CONTRACT ADMINISTRATION

5.1 Administration of the Contract

The City's Representative and the Construction Manager will provide administration of the Agreement as hereinafter described. If the status of any of the above parties should change, the City will provide written notice to the Contractor of such change.

5.2 City's Representative

5.2.1 General – The City's Representative has the authority to act on behalf of the City on change orders, field orders, progress payments, Contract Decisions, acceptability of the Contractor's work, and early possession.

5.2.2 Change Orders – The City's Representative has the authority to accept or reject change orders and cost proposals submitted by the Contractor or as recommended by the Construction Manager.

5.2.3 Progress Payments – The City's Representative has the authority to accept or reject requests for progress payments which have been submitted by the Contractor and recommended by the Construction Manager.

5.2.4 Contract Decisions – Should the Contractor disagree with the Construction Manager's decision with respect to the Agreement, the Contractor may appeal to the City's Representative in accordance with the provisions of the Agreement.

5.2.5 Acceptability of Work – The City's Representative has the authority to make the final determination of the acceptability of the Work.

5.3 Construction Manager

5.3.1 General - The Construction Manager is a representative of the City employed to act as advisor and consultant to the City in construction matters related to the Agreement. The term Construction Manager may include more than one individual to perform contract administration and construction observation. Hereinafter, the term Construction Manager includes any and all representatives working under the direction of the Construction Manager.

All instructions to the Contractor and all communications from the Contractor to the City or the City's Representative shall be forwarded through the Construction Manager. The Construction Manager will have authority to act on behalf of the City only to the extent provided in the Contract Documents. The City has delegated its authority to the Construction Manager to make initial decisions regarding 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. The Construction Manager shall make initial decisions with respect to the Contractor's fulfillment of the Agreement and the Contractor's entitlement to compensation. The Contractor shall look initially to the Construction Manager in matters relating to the Agreement.

The Construction Manager's authority to act under ARTICLE 5, CONTRACT ADMINISTRATION, herein, and any decision made by it in good faith either to exercise or not to exercise such authority, shall not be interpreted or construed as control of or responsibility for any of the Work performed under this Agreement.

5.3.2 On-Site Representative - The Construction Manager will observe the progress, quality, and quantity of the Work to determine, in general, if the Work is proceeding in accordance with the provisions of the Contract Documents. The Construction Manager shall not be responsible for the superintendence of the construction site conditions; construction means, methods, appliances techniques, sequences, or procedures; operation of equipment; Contractor's personnel; or for safety practices or unsafe practices, precautions, and programs in connection with the Work.

In accordance with the provisions of these Contract Documents, the Construction Manager will make decisions relative to all matters of interpretation or execution of the Contract Documents.

5.3.3 Observation and Inspections of Construction - The Construction Manager shall observe the construction and shall have the authority to reject work and materials which do not conform to the Contract Documents, and to require special inspection or testing. Observation and inspection by the Construction Manager or an inspector is not an authorization to revoke, alter, or waive any requirements of the Specifications. Observation and inspection is the authorization to call the attention of the Contractor to any failure of the Work, materials or workmanship to conform to the Contract Documents. The Construction Manager shall have this authority including the ability to reject materials or, in any emergency, suspend the Work. The Contractor may appeal any such issue which it disagrees with to the Construction Manager for decision. If the decision of the Construction Manager is not satisfactory to the Contractor, the Contractor may appeal such decision to the City's Representative.

5.3.4 Acceptability of the Work - The Construction Manager has the authority to make a recommendation as to the acceptability of the Work.

5.3.5 Change Orders - The Construction Manager has the authority to initiate change orders; to reject change orders proposed by the Contractor; to negotiate and recommend acceptance of change orders to the City; or to order minor changes in the Work that result in no cost to the City.

5.3.6 Construction Schedule - The Construction Manager has the authority to review and recommend acceptance of the progress schedule submitted by the Contractor at the start of the Work and

subsequent significant revisions for conformance to the specified sequence of Work and logic.

5.3.7 Progress Payments - The Construction Manager has the authority to recommend acceptance or rejection of requests for progress payments which have been submitted by the Contractor.

5.3.8 Final Payment - The Construction Manager, with the assistance of the City's Representative and the Engineer, will conduct inspections to determine the date of Final Completion of the Work, and the Construction Manager will receive and forward to the City, for the City's review, written warranties and related documents required by the Agreement and assembled by the Contractor.

5.3.9 Contract Interpretation by the Construction Manager – Notwithstanding any omission from the Specifications or the Drawings it shall be the duty of the Contractor to call the Construction Manager's attention to apparent errors or omissions upon discovery by the Contractor and request instructions in writing before proceeding with the Work. The Contractor shall not unreasonably take advantage of any errors or omissions found by Contractor. If the Contractor discovers any errors or omissions that it believes affect the time or cost of performing the Work, it shall be entitled to request a Change Order. Contractor shall promptly notify the Construction Manager in writing of any design, materials, or specified method that the Contractor identifies as defective or insufficient, provided, however, that in doing so Contractor will be acting in its capacity as a contractor and not an architect or engineer, and that this section does not affect City's responsibility with regard to the Contract Documents. The Construction Manager may, by appropriate written instructions, correct errors and supply omitted information, which instructions shall be as binding upon the Contractor as though contained in the original Specifications or Drawings when incorporated into Change Orders. Such instructions shall be incorporated into the Agreement in accordance with the Change Order provisions of the Agreement.

Any discrepancies discovered by the Contractor between the Contract Documents and Site conditions or any inconsistencies or ambiguities in the Contract Documents shall be promptly reported, in writing, to the Construction Manager. Questions regarding the meaning and intent of the Contract Documents shall be referred in writing by the Contractor to the Construction Manager with a Request for Information (RFI). RFI procedures are further described in Section 01 33 50, REQUESTS FOR INFORMATION AND CLARIFICATIONS.

Work done by the Contractor after its discovery of such errors, omissions, discrepancies, inconsistencies or ambiguities without such notice and prior to response from the Construction Manager shall be done at the Contractor's risk and shall not be reimbursed as a Cost of the Work, nor be a basis for an increase in the GMP.

5.4 Engineer

5.4.1 General – The Engineer will have the authority to act on behalf of the City only to the extent provided in the Contract Documents. The Engineer shall not be responsible or have authority for the superintendence of construction site conditions; construction means, methods, appliances techniques, sequences, or procedures; operation of equipment; Contractor's personnel; or for safety practices or unsafe practices; precautions and programs in connection with the Work; or for any failure of the Contractor to comply with laws, regulations, rules, ordinances, codes, or orders applicable to the Contractor furnishing and performing the Work.

5.4.2 Interpretations - The Engineer has the authority to be the initial interpreter of the technical requirements of the Contract Documents. Either party to the Agreement may make written request to the Construction Manager for interpretations necessary for the proper execution or progress of the Work. The Construction Manager shall refer such written requests to the Engineer, who will render such interpretations. Where the Contractor has requested an interpretation from the Construction Manager, or been notified by the Construction Manager that such interpretation has been requested by the City, any

work done before receipt of such interpretations, if not in accordance with same, shall be removed and replaced or adjusted as directed by the Construction Manager without additional expense to City and shall not be reimbursed as a Cost of the Work, or be a basis for an increase in the GMP.

5.4.3 Acceptability of the Work – The Engineer has the authority to make a recommendation as to the acceptability of the Work. The Engineer has the authority to recommend acceptance regarding the remediation or retention of Defective Work.

5.4.4 Submittal – The Engineer shall receive, through the Construction Manager, shop drawings, product data and samples for review in accordance with Section 01 33 00, SUBMITTAL PROCEDURES.

The Engineer has the authority to review and take other appropriate action upon the Contractor's submittal such as shop drawings, product data and samples, but only for conformance with the design concept of the Work and the information given in the Contract Documents.

ARTICLE 6 - CITY

6.1 General

The City, acting through the City's Representative or the Construction Manager, shall have the authority to act as the sole judge of the Work and materials with respect to both quantity, quality function, performance and reliability as set forth in the Agreement except as delegated to the Construction Manager in these Contract Documents.

6.2 Attention to Work

The City's Representative, Construction Manager and Engineer are designated in ARTICLE 3 herein. The Construction Manager will normally be available at the Site of the Work. An alternate Construction Manager representative will be designated when the designated Construction Manager's representative is not available at the Site of the Work. The Engineer may be available at the Site of the Work at certain specific times as needed to facilitate the Work. If the Contractor requires assistance from the Engineer, this assistance shall be coordinated through the Construction Manager. The Engineer will assign a representative to be available at the Site of the Work during the said specific times as needed.

6.3 Observation and Inspection

In addition to the Construction Manager's designated representative, the City may provide one or more inspectors to the Construction Manager to observe the Work and with the same authority as provided for in Article 5.3.3, Observation and Inspections of Construction.

Separate and independent from the observations and inspections above, the Work may be inspected by Building Officials, Fire Officials , Roseville Electric and/or Pacific Gas and Electric for code compliance. Such inspectors shall have the authority provided to them by their jurisdiction. Any design deficiencies or additional work required by these code inspections not required by the Contract Documents may be incorporated into the Work in accordance with the Change Order provisions of the Agreement

6.4 City's Right to Use or Occupy

The City reserves the right, prior to Final Completion, to occupy, or use, any completed part or parts of the Work, providing these areas have been approved for occupancy by the City. The exercise of this right shall in no way constitute a Final Acceptance of such parts, or any part of the Work, nor shall it in anyway affect the dates and times when progress payments shall become due from the City to the Contractor or in any way prejudice the City's rights in the Agreement, or any bonds guaranteeing the same. The Agreement

shall be deemed completed only when all the Work contracted has been duly and properly performed and accepted by the City.

Prior to such occupancy or use, the City and Contractor shall agree in writing regarding the responsibilities assigned to each of them for payments, security, maintenance, heat, utilities, damage to the Work, insurance, the period for correction of the Work, and the commencement of warranties required by the Contract Documents.

In exercising the right to occupy or use completed parts of the Work prior to the Final Acceptance thereof, the City shall not make any use which will materially increase the cost to the Contractor, without increasing the GMP, nor materially delay the completion of the Agreement, without extending the time for completion.

The part or parts of the Work, if any, which the City anticipates the use or occupancy of prior to Final Completion are noted in Section 01 12 16, WORK SEQUENCE. Failure to include a part of the Work in the above referenced Section, shall not limit the City's right to use or occupy parts of the Work not listed.

6.5 City's Right to Carry Out the Work

If the Contractor should neglect to prosecute the Work in accordance with the Contract Documents or fail to perform any provision of the Agreement, and fails within seven (7) days after receipt of written notice from the City to commence and continue correction of such neglect or deficiency with diligence and promptness, the City may, and without prejudice to any other remedy, make good such default, neglect or failure. A Change Order shall be issued unilaterally deducting from the payments then or thereafter due the Contractor, for the cost of correcting such deficiencies and for performing such work, including compensation for the Engineer's, the Construction Manager's, and City's additional services made necessary by such default, neglect or failure.

The City also reserves the right to perform and suspend any portion of the Work due to an emergency threatening the safety of the Work, public, City, and any property or equipment. No deductive Change Order shall be issued for an emergency not caused by Contractor.

6.6 City's Right to Perform Work and to Award Separate Contracts

The City reserves the right to perform work related to the Project with the City's own forces, and to award separate contracts in connection with the Project or other work on the Site. If the Contractor claims that delay, damage, or additional cost is involved because of such action by the City, the Contractor shall make such claim as provided elsewhere in the Contract Documents.

When separate agreements are awarded for different portions of the Project or other work on the Site, the term "Contractor" in the Contract Documents in each case shall mean the contractor who executes each separate Agreement.

The City will provide for the coordination of the work of the City's own forces and of each separate contractor with the Work of the Contractor, who shall cooperate therewith as provided in Article 7.10, Cooperation with Other Contractors.

6.7 Non-Responsibility of the City

The City shall not be held responsible for the care or protection of any material or parts of the Work prior to the Final Acceptance, except as expressly provided in the Contract Documents.

ARTICLE 7 - CONTRACTOR

7.1 Status of Contractor and Subcontractors

7.1.1 Contractor – It is stipulated and agreed that the Contractor shall be an independent contractor in the performance of this Agreement and shall have complete charge of persons engaged in performance of the Work. The Contractor shall perform the Work in accordance with its own means, methods, and appliances subject to compliance with the requirements of the Agreement.

7.1.2 Subcontractors – If any part of the Work to be done under this Agreement is subcontracted, the subcontract shall be in writing and shall provide that all Work to be performed thereunder shall be performed in accordance with the terms of the Contract Documents. The subcontracting of any or all of the Work to be done will in no way relieve the Contractor of any part of its responsibility under the Agreement. Subcontractors will not be recognized as having a direct relationship with the City. The persons engaged in the Work, including employees of subcontractors and suppliers, will be considered employees of the Contractor and their work shall be subject to the provisions of the Agreement. References in the Contract Documents to actions required of subcontractors, manufacturers, suppliers, or any person other than the Contractor, the City or the Construction Manager shall be interpreted as requiring that the Contractor shall require such subcontractor, manufacturer, supplier or person to perform the specified action.

The Contractor shall only employ subcontractors that are properly licensed in accordance with State law and are registered with the California Department of Industrial Relations (DIR).

Prior to commencement of any work by a subcontractor, the Contractor shall submit to the Construction Manager:

A. Verification that the subcontractor is properly licensed for the work it will perform.
B. Upon City's request, copies of subcontract agreements.
C. Copies of subcontractor's insurance certificates and endorsements.

7.2 Contractor's Representative

The Contractor shall provide in writing, a request to the City to delegate authority to an individual to serve in the capacity of authorized representative and shall wait to receive written confirmation from the City, before the authorized representative can start work. The authorized representative shall be qualified for the duties required and have complete authority to represent and to act for the Contractor. Said authorized representative has the authority to act in matters relating to the Agreement, and shall be personally present at the Site at all times while work is actually in progress on the Agreement. During periods when the Work is suspended, arrangements acceptable to the Construction Manager shall be made for any emergency work that may be required. The Contractor's authorized representative shall be fluent and proficient in the English language in order to understand, receive, and carry out oral and written communications or instructions relating to all job functions and responsibilities. All communications to and from the Contractor's authorized representative shall be binding as if given to or by the Contractor.

Contractor shall provide its authorized representative's contact information which shall include the representative's name, office street address, office telephone number, mobile phone number, home phone number, email address and the office mailing address if different from the street address.

The Contractor's authorized representative shall give its personal attention to and shall supervise the Work to the end that it shall at all reasonable times be prosecuted faithfully; and when the authorized representative is not personally present on the Work, the representative shall at all reasonable times be represented by a competent designated alternate, superintendent or foreman (approved in writing by the City, to act in this capacity) who shall receive and obey all instructions or orders given under this Agreement, and who shall have full authority to supply materials, tools, and labor without delay, and who shall be the

legally appointed representative of the Contractor. The Contractor shall be liable for the faithful observation of any instructions delivered to the Contractor or to its authorized representative.

The Contractor's authorized representative shall not be replaced by a person to whom City has a reasonable objection. Furthermore, the City shall have the authority to remove the Contractor's authorized representative from the Project for reasons found in Article 8.3, Character of Workers.

7.3 Use and Protection of City's Site and Adjacent Property

7.3.1 With the approval of the Construction Manager, the Contractor may use designated portions of the City's Site for storage of construction equipment, materials and field offices provided the Contractor does not interfere with City's operations. The Contractor will not be allowed to unreasonably encumber the Site or adjacent areas with its materials and/or equipment. The City will not accept any responsibility for damage to or loss of the Contractor's equipment or materials stored on any Project related site caused by vandalism, nature, or otherwise, suffered by the Contractor. Protection of all construction equipment, stores, and supplies shall be the sole responsibility of the Contractor. Where additional work space is desired by the Contractor or where the City cannot provide the space to the Contractor, it shall be the Contractor's sole responsibility and expense to obtain such a space for its use.

7.3.2 All workers or representatives of the Contractor, subcontractors or suppliers are admitted to the Site only for the proper execution of the Work and have no tenancy without the express written permission of the City. Furthermore, no persons may occupy property owned by the City outside the limit of the Work, as indicated on the Drawings, without the express written permission of the City.

7.3.3 The Contractor shall enforce any instructions from the City or Construction Manager regarding combustible materials, placement of signs, danger signals, barricades, radios, noise, dust, and smoking. Upon completion of the Work, the Contractor shall remove all temporary barricades, signs and related materials.

7.3.4 The Contractor shall determine safe loading capacities and shall not overload any structure, building, pipe or other existing facility beyond its safe capacity during construction. In addition to any requirements imposed by law, the Contractor shall shore up, brace, underpin and protect as may be necessary all foundations and other parts of all existing structures, facilities and improvements on the Site or adjacent to the Site which are in any way affected by the Contractor's excavations or other operations connected with the Work. Prior to commencing any work which in any way affects adjoining or adjacent land or buildings thereon, or public utilities, the Contractor shall notify the Construction Manager to discuss responsibilities for properly notifying the owners/occupants of adjacent land and the protective measures taken by the Contractor. Upon request of the Construction Manager, the Contractor shall meet with the recipient of any notice or attend local public meetings as proper public outreach on local impacts caused by completion of the Work should be communicated to any parties that may be affected prior to commencing any work.

7.3.5 The Contractor shall take all necessary precautions to protect existing facilities on which Contractor is performing Work against the effects of weather and environmental elements.

7.3.6 All existing improvements and facilities shall be protected from any damage resulting from the operations, equipment or workers of the Contractor during the entire Contract Time.

7.3.7 The Contractor shall take all steps necessary to protect all structures, buildings, land and other facilities from fires and sparks originating from the Work. The Contractor shall comply with all laws and regulations regarding fire protection and shall comply with all instructions given by the City's fire department.

7.3.8 Any damage to existing conditions, or to any other improvement or property above or below the ground surface, whether public or private, arising from the Contractor's operations or performance of

the Work shall be repaired within forty-eight (48) hours by the Contractor without expense to the City, unless disruption of the City's operations or creation of a safety hazard has occurred, in which case damage will be repaired immediately. The forty-eight (48) hour non-emergency repair response time may be extended only if agreed to in writing by the City and/or private property owner. Any delays to the Project completion times caused by such repairs shall be considered non-compensable and no further extension of the Contract Time will be granted therefor. Should the Contractor not be timely in repairing damage caused by its operations or performance, the City shall take steps to protect against loss of property and life, in its sole discretion, and deduct entire cost of such Work from the next payment due the Contractor. No prior notice to the Contractor shall be necessary for the City to take such action.

7.3.9 The Contractor shall keep the Site reasonably free from debris, trash and construction wastes to permit Contractor to perform construction services efficiently, safely and without interfering with the use of adjacent land areas, and as further stipulated in the Contract Documents. When the Work is Substantially Complete, or a portion of the Work has been completed, Contractor shall remove all debris, trash, construction wastes, materials, equipment, machinery and tools arising from the Work or applicable portions thereof to permit City to occupy the Project or a portion of the Project for its intended use. Contractor shall provide a finished cleaning of all areas acceptable to the City before releasing any area to the City for occupancy.

7.4 Fees and Permits

The permit requirements for the Project are specified in Section 01 35 43, ENVIRONMENTAL PROCEDURES.

7.5 Compliance with Laws

The City is a municipal corporation in the State of California and is subject to the applicable provisions of law relating to public contracts as a Charter City. It is agreed that all provisions of law applicable to public contracts are a part of these Contract Documents to the same extent as though set forth herein and will be complied with by Contractor.

The Contractor, shall at its own cost and expense, observe and keep itself and its subcontractors fully informed of all existing and future legislated State and Federal Laws and City and County ordinances and regulations which in any manner affect those engaged or employed in the Work, or the materials and equipment used in the Work, or which in any way affect the conduct of the Work, and all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. If any discrepancy or inconsistency is discovered in the Drawings, Specifications, or in any other part of this Agreement, in relation to any such law, ordinance, regulation, order or decree, the Contractor shall immediately report the same to the Construction Manager in writing. The Contractor shall at all times observe and comply with all existing laws, ordinances, regulations, orders and decrees; and shall protect, indemnify, and defend the City, the Construction Manager, the Engineer, the Funding Agencies and all of their officers, officials, employees, agents, volunteers, and servants against any claim or liability arising from or based upon the violation of any such law, ordinance, regulation, order, or decree, whether by the Contractor itself, employees, or its subcontractors.

Attention is directed to the following specific regulations and requirements that are included in the Contract Documents. This list of regulations is not warranted to be complete and the burden of ascertaining legal requirements that must be satisfied shall rest solely with the Contractor.

7.5.1 Davis-Bacon Wages- Pursuant to State Water Resources Control Board (SWRCB) Division of Financial Assistance Guidelines for Clean Water State Revolving Fund (CWSRF), the successful bidder must comply with the Davis-Bacon Act (40 U.S.C. 276a to a-7) as supplemental by Department of Labor regulations (29 CFR Part 5) it shall be mandatory upon the Contractor to whom the Work is awarded and upon any subcontractor under the Contractor to pay not less than Davis-Bacon wage rates. The Davis-Bacon requirements and rate determination is included within the RFBP APPENDIX A. The rate determinations may also be found on the Department of Labor's website at: http://www.wdol.gov/dba.aspx.

It shall be mandatory upon the Contractor to whom the work is awarded and upon any subcontractor under the Contractor to pay not less than said specified rates or Davis-Bacon wage rates, whichever is higher, to all workmen employed by them in the execution of the Agreement.

7.5.2 Prevailing Wage Rates – This Agreement is subject to prevailing wage requirements pursuant to Section 1770 et seq. of the California Labor Code, which are hereby incorporated by reference and made a part hereof. Accordingly, Contractor shall comply with all applicable laws and regulations related to payment of prevailing wages and Contractor shall ensure that every lower-tier subcontractor complies with all applicable laws and regulations related to payment of prevailing wages. The Contractor and every lower-tier subcontractor shall pay not less than the prevailing rate of wages, as determined by the Director of the California Department of Industrial Relations pursuant to California Labor Code section 1773. The Contractor and every lower-tier subcontractor shall submit certified payrolls and labor compliance documentation electronically as required by the DIR and City, and via hard copy to the Construction Manager. Contractor is responsible for compliance with all prevailing wage requirements, and shall include these requirements in every subcontract. This Agreement is subject to compliance monitoring and enforcement by the California Department of Industrial Relations, as specified in California Labor Code section 1771.4.

7.5.3 DIR Registration- California Labor Code section 1725.5 requires the Contractor and all lower-tier subcontractors performing public works services to be currently registered with the California DIR, as specified in California Labor Code section 1725.5. California Labor Code section 1771.1 provides 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 California Public Contract Code), or engage in the performance of any contract for public work, unless currently registered and qualified to perform public work pursuant to California Labor Code section 1725.5. The Contractor shall list the Contractor's current DIR registration number, and the current DIR registration number of all subcontractors, as part of its Bid Proposal.

Further information can be found on DIR's website at http://www.dir.ca.gov/Public-Works/Contractors.html. The above summary is provided solely for informational purposes, and does not in any way affect the Contractor's and subcontractors' obligation to comply in all respects with all other applicable laws and regulations. The Contractor shall disseminate these provisions to every lower-tier subcontractor.

7.5.4 Apprentices on Public Work Projects- The Contractor and any subcontractor or subconsultant shall comply with California Labor Code section 1777.5 et seq., and implementing regulations set forth in Title 8 of the California Code of Regulations, governing the employment of apprentices. Contractor and any subcontractor or subconsultant performing Public Work will be subject to penalties for apprenticeship violations in accordance with Labor Code section 1777.7. Please refer to the link below for guidance in meeting your obligation to satisfy the apprentice requirements for this Project: https://www.dir.ca.gov/das/DASApprenticesOnPublicWorksSummaryOfRequirements.htm.

7.5.5 Contractor Agrees to the Following:

7.5.5.1 The Contractor and subcontractors shall pay all mechanics and laborers employed directly on the Site of the Work, unconditionally and at least once a week, and without subsequent deduction or rebate on any account, the full amounts accrued at time of payment, computed at wage rates not less than those stated in the advertised specifications, regardless of any contractual relationship which may be alleged to exist between the Contractor or subcontractor and the laborers and mechanics.

7.5.5.2 The Contractor will post the scale of wages to be paid in a prominent and easily accessible place at the Site of the Work.

7.5.5.3 There may be withheld from the Contractor so much of accrued payments as the City considers necessary to pay to laborers and mechanics employed by Contractor or any subcontractor on the work the difference between the rates of wages required by the contract to be paid laborers and mechanics on the Work and the rates of wages received by the laborers and mechanics and not refunded to Contractor or subcontractors or their agents.

7.5.6 Travel and Subsistence Payments – Each worker needed to execute the Work must be paid travel and subsistence payments as defined in the applicable collective bargaining agreements filed in accordance with Section 1773.1 of the California Labor Code.

7.5.7 Workday – In accordance with the provisions of Division 2, Part 7, Chapter 1, Article 3 of the Labor Code, State of California, and in particular Sections 1810 to 1815 inclusive, thereof, eight (8) hours labor shall constitute a days' work and no laborer, worker, or mechanic in the employ of said Contractor, or any subcontractor doing or contracting to do any part of the Work contemplated by this Agreement, shall be required or permitted to work more than eight (8) hours in any one calendar day, and forty (40) hours in any one calendar week unless compensated at not less than time and a half as set forth in California Labor Code Section 1815. However, if the prevailing wage determination requires a higher rate of pay for overtime than is required under said Section 1815, then the overtime rate must be paid, as specified in California Code of Regulation Title 8, Group 3, Section 16200(a)(3)(F). The Contractor and each subcontractor shall also keep an accurate record showing the names and actual hours worked of all workers employed by them in connection with the work contemplated by this Agreement, which record shall be open at all reasonable hours for the inspection of the City or its officers or agents and by the Division of Labor Standards Enforcement of the Department of Industrial Relations, their deputies or agents; and it is hereby further agreed that said Contractor shall forfeit as a penalty to the City, the sum of the greater of (i) Twenty-Five and No/100 Dollars ($25.00) or (ii) the maximum penalty allowable by statute for each laborer, worker or mechanic employed in the execution of this Agreement by the Contractor or by any subcontractor for each calendar day during which such laborer, worker or mechanic is required or permitted to labor more than eight (8) hours in any one calendar day and forty (40) hours in one calendar week in violation of these provisions.

7.5.8 Certified Electricians – Workers performing work for an electrical contractor installing, constructing, or maintaining any electrical system covered by the National Electrical Code shall be certified as a General Electrician per California Labor Code Section 3099.

7.5.9 Receipt of Workers' Wages, Fee for Registering or Placing Persons In Public Works – Attention is directed to the provisions of sections 1778 and 1779 of the California Labor Code, which reads as follows:

> "Section 1778. Every person, who individually or as a representative of an awarding or public body or officer, or as a contractor or subcontractor doing public work, or agent or officer thereof, who takes, receives or conspires with another to take or receive, for his own use or the use of any other person any portion of the wages of any workman or working subcontractor, in connection with services rendered upon any public work is guilty of a felony."

> "Section 1779. Any person or agent or officer thereof who charges, collects, or attempts to charge or collect, directly or indirectly, a fee or valuable consideration for registering any person for public work, or for giving information as to where such employment may be procured, or for placing, assisting in placing, or attempting to place, any person in public work, whether the person is to work directly for the State, or any political subdivision or for a contractor or subcontractor doing public work is guilty of a misdemeanor."

7.5.10 Labor Discrimination – Attention is directed to Section 1735 of the Labor Code, which reads as follows:

> "No discrimination shall be made in the employment of persons upon public works because of the race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, or sex of such persons, except as provided in Section 12940 of the Government Code, and every contractor for public works violating this Section is subject to all the penalties imposed for violation of this chapter."

Non-Discrimination. Contractor agrees that it shall not discriminate against any person on account of their sex, race, color, religious creed, ancestry, national origin, disability, medical condition, marital status, age, gender, military or veteran status, genetic information, or sexual orientation in violation of the Fair Employment and Housing Act or the Unruh Civil Rights Act. Upon a final determination by a court of competent jurisdiction that the Grantee has violated either of these Acts, the City may, at its option, (1) withhold payments to Contractor under this Agreement until Contractor complies; or (2) suspend or terminate this Agreement. Contractor shall include the provisions of this paragraph in every subcontract, including procurement of materials and lease of equipment, unless specifically exempted by the City.

7.5.11 Workers' Compensation Insurance – The provisions of Article 13.1.2, Workers' Compensation Insurance, shall be considered as repeated herein.

7.5.12 Not Used.

7.5.13 Safety Standards – The Contractor shall comply with all applicable provisions of the Safety and Health Regulations of Construction, promulgated by the Secretary of Labor under Section 107 of the Contract Work Hours and Safety Standards Act (40 USC 327 et. seq.) as set forth in Title 29, C.F.R., CAL/OSHA, and the regulations issued thereunder. Compliance shall be the Contractor's sole responsibility, and neither the City, the Construction Manager nor the Engineer shall have any liability for non-compliance. See Article 7.7, Safety, for additional safety requirements.

7.5.14 Asbestos Related Work – All work involving asbestos containing material must be performed in accordance with California Labor Code, Sections 6501.5 through 6510, inclusive, and California Administrative Code, Title 8, Section 5208 and all other pertinent laws, rules, regulations, codes, ordinances, decrees and orders.

7.5.15 Public Records Act –

A. Ownership and Disclosure

Except as otherwise provided herein, all records, documents, drawings, plans, specifications, and all other information relating to the conduct of City's business, including information submitted by the Contractor ("Records"), shall become the exclusive property of City and shall be deemed public records. Said Records are subject to the provisions of the California Public Records Act (Government Code § 6250 et seq.). The City's use and disclosure of its records are governed by this Act. The City will use its best efforts to inform the Contractor of any request for any financial records or documents marked "Trade Secret," "Confidential" or "Proprietary" provided by the Contractor to City. The City will not advise as to the nature or content of documents entitled to protection from disclosure under the California Public Records Act.

B. Litigation Related to Disclosure

In the event of litigation concerning the disclosure of any Records, City's sole involvement will be as a stakeholder, retaining the Records until otherwise ordered by a court. The submitting party, at its sole expense and risk, shall be fully responsible for any and all fees for prosecuting or defending any action concerning the Records and shall indemnify and hold City harmless from all costs and expenses including attorney's fees in connection with any such action.

7.6 Compliance with Environmental Laws

During construction, the Contractor shall comply with all pertinent requirements of Federal, State, and local environmental laws and regulations, including, but not limited to, the Federal Clean Air Act, State and local

air pollution and noise ordinances, construction site erosion control regulations. Specific requirements are further specified in Section 01 11 80, ENVIRONMENTAL CONDITIONS.

7.7 Safety

7.7.1 Contractor's Safety Responsibility – The Contractor shall be solely and completely responsible for conditions of the jobsite, including safety of all persons and property during performance of the Work. This requirement shall apply continuously and not be limited to normal working hours. Safety provisions shall conform to U.S. Department of Labor (OSHA), the California Occupational Safety and Health Act (CalOSHA), and all other applicable Federal, State, County, and local laws, ordinances, codes, including but not limited to the requirements set forth below, and any regulations that may be detailed in other parts of these Contract Documents. In the event of conflicting requirements, the most stringent requirement as it pertains to the Contractor's safety responsibility, shall be followed by the Contractor.

No provision of the Contract Documents shall act to make the City, the Construction Manager, Engineer or any other party than the Contractor responsible for safety. Neither the City nor the Construction Manager, Engineer or their respective officers, officials, employees, agents or volunteers or other authorized representatives will be responsible for having hazards, and/or potential hazards, corrected and/or removed at the location(s) where the work is to be performed. The Contractor agrees that neither the City nor the Construction Manager, Engineer or their respective officers, officials, employees, agents or volunteers or other authorized representatives will be responsible for taking steps to protect the Contractor's employees from such hazards and/or potential hazards, or for instructing the Contractor's employees to recognize such hazards and/or potential hazards, or to avoid the associated dangers. The Contractor agrees that with respect to the Work to be performed under this Agreement and the location(s) where such Work is to be performed, the Contractor will be responsible for not creating hazards, and for having hazards corrected and/or removed. The Contractor agrees that through the safety obligations contained in this Agreement and the Contractor's own inspection of the Site(s) where the Work is to be performed, the Contractor is aware and has been notified of the hazards and/or potential hazards to which the Contractor's employees may be exposed in the performance of the Work. The Contractor has taken and/or will take appropriate, feasible steps to protect the Contractor's employees from such hazards, and has instructed and/or will instruct its employees to recognize such hazards and/or potential hazards and how to avoid the associated dangers. The Contractor agrees that neither the City nor the Construction Manager, Engineer or their respective officers, officials, employees, agents or volunteers or other authorized representatives will be "employers" pursuant to California Labor Code Section 6400 and related provisions of law with respect to the Contractor, the Contractor's privities or subcontractors or Material Suppliers acting pursuant to this Agreement.

The Contractor shall indemnify, defend and hold City and Construction Manager, Engineer, Funding Agencies and their respective officers, officials, employees, agents and volunteers or other authorized representatives harmless to the full extent permitted by law concerning liability related to the Contractor's safety obligations in accordance with Article 13.2, General Indemnification Obligations.

If death or serious injuries or serious damages occur, the accident shall be reported immediately by telephone or messenger to both the Construction Manager and the City. In addition, the Contractor shall furnish the Construction Manager with a copy of the Employer's Report of Injury immediately following any incident requiring the filing of said report during the prosecution of the Work under this Agreement. The Contractor shall also furnish the Construction Manager with a copy of the Employer's Report of Injury involving any subcontractors on this Project. The Contractor shall make all reports as are, or may be, required by any authority having jurisdiction, and permit all safety inspections of the Work being performed under this Agreement.

If a claim is made by anyone against the Contractor or any subcontractor on account of any accident, the Contractor shall promptly report the facts in writing to the Construction Manager, giving full details of the claim.

7.7.2 Safety Program – The Contractor shall establish, implement, and maintain a written injury prevention program as required by Labor Code Section 6401.7. Before beginning the Work, the Contractor

shall file with the Construction Manager a written Contractor Safety Program that provides for the implementation of all of the Contractor's safety responsibilities in connection with the Work at the Site and the coordination of that program and its associated procedures and precautions with safety programs, precautions and procedures of each of its subcontractors and other Contractors performing work at the Site. The Contractor shall be solely responsible for initiating, maintaining, monitoring, coordinating, and supervising all safety programs, precautions, and procedures in connection with the Work and for coordinating its programs, precautions, and procedures of the other contractors and subcontractors performing the Work at the Site. The Safety Program should contain all the necessary elements for the Contractor to administer its program on the Site. At a minimum, this written Safety Program shall address the elements required by Labor Code Section 6401.7.

The Contractor's compliance with requirements for safety and/or the Construction Manager's acceptance for filing of the Contractor's Safety Program shall not relieve or decrease the liability of the Contractor for safety. The Construction Manager's review of the Contractor's Safety Program is only to determine if the above listed elements are included in the program. The Contractor's completion of review of the Safety Program does not confirm adequacy of the Program to protect workers. The Contractor is solely responsible to determine adequacy of the program to protect workers per the applicable Labor Code Section.

7.7.3 Safety Supervisor – The Contractor shall appoint an employee as safety supervisor who is qualified and authorized to supervise and enforce compliance with the Safety Program. The Contractor shall notify the Construction Manager in writing prior to the commencement of work of the name of the person who will act as the Contractor's safety supervisor and furnish the safety supervisor's resume to the Construction Manager.

The Contractor will, through and with its Safety Supervisor, ensure that all of its employees and its subcontractors of any tier, fully comply with the Project Safety Policies. The Safety Supervisor shall be a full-time employee of the Contractor whose responsibility shall be for supervising compliance with applicable safety requirements on the Site and for developing and implementing safety training classes for all job personnel. The City shall have the authority to require removal of the Contractor's Safety Supervisor if the representative is judged to be improperly or inadequately performing the duties; however, this authority shall not in any way affect the Contractor's sole responsibility for performing this work safely, nor shall it impose any obligation upon the City to ensure the Contractor performs its work safely.

7.7.4 Safety and Protection – The Contractor shall take all necessary precautions to prevent damage, injury, and loss to:

A. All employees on the Project, employees of all subcontractors, and other persons and organizations who may be affected thereby;

B. All the Work and materials and equipment to be incorporated therein, whether in storage on or off the Site; and

C. Other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, wetlands, pavements, roadways, structures, utilities, and underground facilities not designated for removal, relocation, or replacement in the course of construction.

The Contractor shall comply with all applicable laws and regulations of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss and shall erect and maintain all necessary safeguards for such safety and protection. The Contractor shall notify owners of adjacent property and of underground facilities and utility districts when prosecution of the Work may affect them and shall cooperate with them in the protection, removal, relocation, and replacement of their property. All injury or loss to any property caused, directly or indirectly, in whole or in part, by the Contractor, any subcontractor, supplier or any other person or organization directly or indirectly employed by any of them to perform or furnish any of the Work or anyone for whose acts any of them may be liable, shall be remedied by the Contractor.

7.7.5 Excavation Safety – In accordance with the provisions of Section 6705 of the Labor Code, the Contractor shall submit, in advance of excavation of any trench or trenches five feet or more in depth, a detailed plan showing the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during the excavation of such trench or trenches. If such plans vary from the shoring system standards set forth in the Construction Safety Orders of the Division of Industrial Safety in Title 8, Subchapter 4, Article 6, California Code of Regulations, the plans shall be prepared and signed by a registered civil or structural engineer employed by the Contractor, and all costs therefore shall be included in the price named in the Agreement for completion of the Work as set forth in the Contract Documents. Nothing in this article shall be deemed to allow the use of a shoring, bracing, sloping, or other protective system less effective than that required by the Construction Safety Orders. Nothing in this article shall be construed to impose a tort liability on the City, the Engineer, the Construction Manager, nor any of their officers, officials, employees, agents, consultants or volunteers. The City's review of the Contractor's excavation plan is only for general conformance to the Construction Safety Orders.

Prior to commencing any excavation, the Contractor shall designate in writing to the Construction Manager the "competent person(s)" with the authority and responsibilities designated in the Construction Safety Orders.

7.7.6 Safety Emergencies – In emergencies affecting the safety or protection of persons or the Work or property at the Site or adjacent thereto, the Contractor, without special instruction or authorization from the Construction Manager, will take reasonable action to prevent threatened damage, injury or loss. The Contractor shall give the Construction Manager prompt written notice if the Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby.

7.7.7 Safety Violations – Should the Contractor fail to correct an unsafe condition, the City shall have the right to notify the Contractor through the Construction Manager that an unsafe condition may exist and must be corrected or the Work in question can be stopped in accordance with Article 9.6, **City Suspension of Work**, until the condition is corrected to the satisfaction of the City. No extension of time or additional compensation will be granted as a result of any stop order so issued. The notification and suspension of such Work or the failure to provide such notification and suspension by the City shall not relieve the Contractor of its sole responsibility and liability for safety and the correction of any unsafe conditions.

The City shall have the authority to require the removal from the Project of any worker and the foreman and/or superintendent in responsible charge of the work where safety violations occur. The City also delegates such authority to the Construction Manager as well.

7.7.8 Equipment Safety Provisions – The completed Work shall include the specified permanent safety devices, such as machinery guards and similar safety items, required by the State and Federal (OSHA) industrial authorities and applicable local and national codes. Further, any features of the Work, including City-selected equipment, subject to such safety regulations shall be fabricated, furnished, and installed in compliance with these requirements. All equipment furnished shall be grounded and provided guards and protection as required by safety codes. Where vapor-tight or explosion-proof electrical installation is required by safety codes, this shall be provided. Contractors and manufacturers of equipment shall be held responsible for compliance with the requirements included herein. The Contractor shall notify all equipment suppliers and subcontractors of the provisions of this paragraph.

7.7.9 Confined Spaces – The Project requires work in confined spaces and requires compliance with CAL/OSHA and Federal OSHA requirements. Confined spaces for the purposes of this article shall be as defined by the Division of Industrial Safety. Work within confined spaces of this Project is subject to the definitions and applicable provisions of Section 5156 *et seq.*, Title 8, Division 1, Chapter 4, Subchapter 7, Group 16, Article 108 of California Code of Regulations, and Title 29 Part 1926 of the Code of Federal Regulations.

In addition the City classifies the following existing facilities as confined space: the interior of pipelines, vaults, manholes, reservoirs and any other such structure or space which is similarly surrounded by

confining surfaces as to permit the accumulation of dangerous gases or vapors. The confined spaces are "permit" confined spaces as defined by OSHA and CAL/OSHA and therefore entry is allowed only through compliance with a confined space entry permit program by the Contractor that meets the requirements of 8 C.C.R. Section 5157. While the above mentioned locations have been identified as permit confined spaces, other permit confined spaces may exist. It shall be the responsibility of the Contractor to identify and classify these confined spaces.

It is anticipated that the Contractor may encounter hazardous conditions within these permit confined spaces which include, but are not limited to the following:

A. Exposure to hydrogen sulfide, methane, carbon dioxide and other gases and vapors commonly found in municipal sewers which could have or has the potential of having Immediate Danger to Life or Health Conditions (IDLH).

B. Exposure to atmosphere containing insufficient oxygen to support human life.

C. Exposure to combustible, flammable and/or explosive atmosphere.

D. Exposure to sewage which may contain bacteriological, chemical and other constituents harmful to humans.

E. Work in conditions where engulfment or entrapment may occur.

F. Work in environments which may be slippery and/or have uneven work surfaces.

G. Work in structures where workers may trip, slip and/or fall several feet.

H. Exposure to an oxygen enriched environment.

7.7.10 Public Safety and Convenience – The Contractor shall conduct its work so as to ensure the least possible obstruction to traffic and inconvenience to the general public and the residents in the vicinity of the Work and to ensure the protection of persons and property. No road or street shall be closed to the public except with the permission of the Construction Manager and the written approval by the proper governmental authority. Fire hydrants on or adjacent to the Work shall be accessible to firefighting equipment. Temporary provisions shall be made by the Contractor to ensure the use of sidewalks, private and public driveways and proper functioning of gutters, sewer inlets, drainage ditches and culverts, irrigation ditches and natural water courses.

7.8 Provisions for Handling Emergencies

It is possible that emergencies may arise during the progress of the Work, which may require special treatment or make advisable extra shifts of labor forces to continue the Work for twenty-four (24) hours per day. These emergencies may be caused by damage or possible damage to nearby existing structures or property by reason of the work under construction, or by storm, accidents, or leakage. The Contractor shall be prepared in case of such emergencies to make all necessary repairs and shall promptly execute such work when required; such emergency work will be reimbursed as a Cost of the Work and the GMP increased accordingly.

Upon start of the Work, Contractor shall provide means for immediate emergency notification of Contractor's designated representative and designated emergency alternates.

7.9 Nonstandard Working Hours

The Contractor may be required to prosecute the Work at night or outside of the normal working hours defined in Section 01 12 16-1.03.B, Hours of Work. Such work may be required due to project or operational

constraints as defined in Section 01 12 16, WORK SEQUENCE, or if emergencies arise as provided for in Article 7.8, Provisions for Handling Emergencies. When required, ordered, or permitted to work at night, the Contractor shall provide sufficient and satisfactory lighting and other facilities therefore. Except as provided in Article 7.8, above, for work outside of the normal working hours, the Contractor shall receive no extra payment, but compensation shall be considered as having been included in the GMP stipulated for the Work, except for authorized work performed outside of the Agreement.

7.10 Cooperation with Other Contractors

This paragraph shall serve as notice to the Contractor that the City may allow other contracts for other work at or near the Site of this Work. The Contractor shall afford other Contractors reasonable opportunity for the delivery and storage of their materials and the execution of their work, and shall properly connect and coordinate its work with theirs.

Should construction be under way by other forces or by other Contractors within or adjacent to the limits of the work or in the vicinity of the work to be done under this Agreement, the Contractor shall so conduct its operations as to interfere to the least possible extent with the work of such other forces or Contractors.

Any difference or conflicts which may arise between the Contractor and any other forces or Contractors, creating delays or hindrance to each other, shall be adjusted as determined by the Construction Manager.

Section 01 12 16, WORK SEQUENCE, indicates anticipated other construction activities within or adjacent to work to performed in this Agreement. City shall require contractors performing Work by Others to cooperate with Contractor and not unduly interfere with Contractor's performance of the Work.

ARTICLE 8 - CONTROL OF WORK AND MATERIAL

8.1 Means, Methods and Appliances

The means, methods and appliances adopted by the Contractor shall be planned and executed to produce the highest grade quality of work and will enable the Contractor to complete the Work in the time agreed upon. The City and Construction Manager shall not supervise, direct, or have control over, or be responsible for, Contractor's means, methods and appliances of construction or for the safety precautions and programs incident thereto, or for any failure of Contractor to comply with laws and regulations applicable to the furnishing or performance of Work.

8.2 Contractor's Responsibility for Work

Unless specified otherwise in the Contract Documents, until the Final Completion of the Work by the City, the Contractor shall have the charge and care and shall bear the risk of damage to any part thereof by the action of the elements or from any other cause, whether arising from the execution or non-execution of the Work.

The Contractor shall rebuild, repair, restore and make good all damages to any portion of the Work occasioned by any of the above causes before Final Completion and shall bear the expense, except such damages occasioned by the acts of the Federal government or acts of war.

In case of suspension of work from any cause whatsoever, the Contractor shall be responsible for the Work as previously specified and shall also be responsible for all materials delivered to the Site. Where necessary to protect the Work from damage, the Contractor shall, at its own expense, provide suitable drainage of the worksite and erect such temporary structures as necessary to protect the Work from damage during any period of suspension of work.

The Contractor shall provide twenty-four (24) hour emergency service for all maintenance and operations of the Work specified and shall supply the City with the name and phone number of the responsible person.

Contractor will respond to requests for emergency service for the Work promptly upon notification. If the Contractor fails to provide this service after notice from City, City may perform such emergency service and the cost thereof shall be deducted from the next Progress Pay Estimate due the Contractor.

8.3 Character of Workers

None but competent superintendents, forepersons and workers shall be employed on the Work by the Contractor and its subcontractors at all tier levels. The Contractor shall remove from the Work any person who commits trespass, possesses firearms or other weaponry, is under the influence or is in the possession of alcohol or other drugs/controlled substance, or is, in the opinion of the City or Construction Manager, disorderly or profane, dangerous, abusive, insubordinate, incompetent, or otherwise objectionable. Such discharge shall not be the basis of any claim for compensation or damages against the City, its officers, officials, employees, agents, and volunteers, the Engineer, the Construction Manager, and their partners, officers, employees, agents or any representatives.

8.4 Supply of Sufficient Workers

The Contractor shall at all times employ qualified workers sufficient to prosecute the Work at a rate and in a sequence and manner necessary to complete the Work within the required Contract Time. This obligation shall remain in full force and effect notwithstanding disputes or claims of any type. At any time during the progress of Work, should the Contractor directly or indirectly (through subcontractors), refuse, neglect, or be unable to employ a sufficient number of qualified workers to prosecute the Work as required, then the City may require the Contractor to accelerate the Work and/or furnish additional qualified workers as City may consider necessary, at no cost to City.

If Contractor does not comply with the notice within seven (7) days of date of service thereof, City shall have the right (but not a duty) to provide qualified workers to finish the Work or any affected portion of Work, as City may elect. City may at its discretion, exclude Contractor from the Site, or portions of the Site or separate Work elements during the time period that City exercises this right. City will deduct from moneys due or which may thereafter become due under the Contract Documents, the sums necessary to meet expenses thereby incurred and paid to persons doing Work. City will deduct from funds or appropriations set aside for purposes of Contract Documents, the amount of such payments and charge them to Contractor as if paid to Contractor. Contractor shall remain liable for resulting delay, including liquidated damages and indemnification of City from claims of others.

Exercise by the City of the rights conferred upon the City in this Agreement is entirely discretionary on the part of the City. The City shall have no duty or obligation to exercise the rights referred to this Article 8.4, Supply of Sufficient Workers, and its failure to exercise such rights shall not be deemed an approval of existing Work progress or a waiver or limitation of City's right to exercise such rights in other concurrent or future similar circumstances. The rights conferred upon City under this Article 8.4, Supply of Sufficient Workers, are cumulative to City's other rights under any provision of the Contract Documents.

8.5 Materials and Workmanship

The Contractor shall provide safe access, including plants where materials or equipment are manufactured or fabricated, for the City Representative and inspectors to adequately inspect the quality of work and for conformance with the Contract Documents. The Contractor shall furnish the City Representative the necessary labor and facilities for such things as excavation in the compacted fill to the depths required to take samples. The Contractor shall provide adequate lighting, ventilation, ladders and other protective facilities as may be necessary for the safe performance of inspections.

Unless otherwise indicated in the Contract Documents or favorably reviewed by the Engineer, materials and equipment for the Work shall be the best grade in quality of a manufacturer regularly engaged in the

production of such materials and equipment, or materials and equipment of comparable character. All materials must be of the specified quality and equal to approved samples, if samples have been submitted. All Work shall be done and completed in the best workmanlike manner, obtainable in the local market. All permanent materials and equipment shall be new unless otherwise specified.

Construction Manager will notify Contractor of Defective Work promptly upon identifying the Work at issue. All Defective Work or materials shall be promptly removed from the premises by the Contractor, whether in place or not, and shall be replaced or renewed with Work that meets the requirements of the Contract Documents. All materials and workmanship of whatever description shall be subjected to the inspection of, and rejection by, the Construction Manager if not in conformance with the Contract Documents.

Defective Work shall be modified, replaced, repaired or redone by the Contractor at no change in GMP (nor will any of the costs to correct Defective Work be reimbursable as a Cost of the Work) or Contract Time. Acceptance of Defective Work, without specific written acknowledgement and approval of the City, shall not relieve the Contractor of the obligation to correct such Work. Should the City determine that it is not feasible or in the City's interest to require Defective Work to be repaired or replaced, an equitable credit shall be made to the Costs of Work owed to the Contractor and a corresponding reduction in the GMP shall be made by agreement between the City and the Contractor (If the Contractor has been paid in full for its Work, the Contractor agrees to pay City the amount of the equitable credit mutually agreed to leave in place the Defective Work). If an equitable amount cannot be agreed upon, a Change Order will be issued and the amount in dispute resolved in accordance with the Contract Documents. The City and the City's consultants disclaim any and all responsibility for Work that is not in conformance with the Contract Documents. The Contractor shall have full responsibility for all direct consequences resulting from Defective Work, including without limitation all delays (pursuant to Section 01 40 00, QUALITY REQUIREMENTS), extra inspection and correction costs, consultant and attorneys' fees costs by the Contractor and re-Work.

The City agrees that after providing the Contractor with written notice of works that it deems to be Defective Work, the City shall allow the Contractor fifteen (15) days to investigate the Defective Work in order for the Contractor to determine whether it agrees that the work is Defective Work and if so, submit to the City, for its approval, a proposed remedy for the Defective Work, before the City shall charge the Contractor for any reasonable extra inspection, consultant and attorneys' fees costs associated with the Defective Work. If it is determined by a court or arbitrator, or the City otherwise agrees, that the work was not Defective Work, City shall bear all inspection, consultant and attorneys' fees costs incurred by City or Contractor as a result of the alleged Defective Work.

Unless otherwise stipulated in the Contract Documents, any defective material, equipment or workmanship, or any unsatisfactory or imperfect work which may be discovered before the Final Completion of the Work or within one (1) year thereafter, shall be corrected immediately upon the receipt of notice from the City, without extra charge, notwithstanding that it may have been overlooked in previous inspections and estimates. The City's failure to inspect work shall not relieve the Contractor from any obligation to perform sound and reliable Work as herein described. Any material, equipment and/or workmanship determined to be defective after the expiration of the one year express warranty provision (or beyond any furnished warranty extending beyond one year) shall be subject to the ten year statute relating to latent defects. The express warranties of the Contract Documents are in addition to, not in lieu of, the ten year statutory obligations.

In the event that the Contractor shall fail to comply with the conditions of the foregoing guarantee within fifteen (15) calendar days after the date of written notification of the defect, the City shall have the right, but shall not be obligated to repair, or obtain the repair of, the defect and the Contractor shall pay to the City on demand all costs and expense of such repair. Notwithstanding anything herein to the contrary, in the event that any defect in workmanship or material covered by the foregoing guarantee results in a condition which constitutes an immediate hazard to the health or safety, or any property interest, or any person, the City shall have the right to immediately repair, or cause to be repaired, such defect, and the Contractor shall pay to the City on demand all costs and expense of such repair. The foregoing statement relating to hazards to health, safety or property shall be deemed to include either temporary or permanent repairs which may be required as determined in the sole discretion and judgment of the City.

8.6 Use of Materials Found on the Site

The City does not warrant the suitability of any native material on the Site for use in the Project. The Contractor, with the approval of the Engineer, may use in the proposed construction such stone, gravel, sand or other material as may be found on the Site and deemed suitable in the opinion of the Engineer. The Contractor shall replace at its own expense all of that portion of the material so removed and replaced with other suitable material. No charge for native materials so used will be made against the Contractor. The Contractor shall not excavate or remove any material from any location that is not within the excavation, as indicated by the slope and grade lines shown on the Drawings, without written authorization from the Engineer.

8.7 Existing Utilities

8.7.1 General – The location of known existing utilities and pipelines are shown on the Drawings in their approximate locations. However, nothing herein shall be deemed to require the City to indicate the presence of existing service laterals or appurtenances whenever the presence of such utilities on the Site of the Work can be inferred from the presence of other visible facilities, such as buildings, cleanouts, meter and junction boxes, on or adjacent to the Site of the Work.

The City will assume the responsibility for the timely removal, relocation, or protection of existing main or trunkline utility facilities located on the Site if such utilities are not identified by the City in the Contract Documents or which cannot reasonably be inferred from the presence of other visible facilities to the extent required by law.

8.7.2 Utility Location – It shall be the Contractor's responsibility to determine the exact location and depth of all utilities, including service connections, which have been marked by the respective utility owners and which the Contractor believes may affect or be affected by the Contractor's operations. The Contractor shall not be entitled to additional compensation or time extensions for work necessary to avoid interferences nor for repair to damaged utilities if the Contractor does not expose all such existing utilities as required by this Article.

Pursuant to Government Code Section 4216.2 the Contractor shall contact the appropriate regional notification center at least two (2) working days, but not more than fourteen (14) calendar days, before performing any excavation. The Contractor shall request that the utility owners conduct a utility survey and mark or otherwise indicate the location of their service.

After the utility survey is completed, the Contractor shall commence "potholing" or hand digging to determine the actual location of the pipe, duct, or conduit. The Construction Manager shall be given notice prior to commencing potholing operations. The Contractor shall uncover all piping and conduits, to a point one (1) foot below the pipe, where crossings, interferences, or connections are shown on the Drawings or indicated based on the utility survey, and 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 for any period subsequent to the construction of the run of pipe involved.

8.7.3 Utility Relocation and Repair – If interferences occur at locations other than those indicated in the Contract Documents with reasonable accuracy, the Contractor shall notify the Construction Manager in writing. The Construction Manager shall work together with the Contractor to supply a method for correcting said interferences in accordance with the responsibilities of this Article and Government Code Section 4215.

The City shall compensate the Contractor for the costs of locating and repairing damage not due to the failure of the Contractor to exercise reasonable care, and for removing or relocating such main(s) or trunkline utility facilities not indicated in the Contract Documents with reasonable accuracy, and for the cost of equipment on the Project necessarily idled during such work. The payment for such costs will be made

as provided in Article 10.1, Change Orders. The Contractor shall not be assessed liquidated damages for delay in completion of the Project, when such delay is caused by the failure of the City or utility company to provide adequate advance information to the Contractor for removal or relocation of such utility facilities. Requests for extensions of time arising out of utility relocation or repair delays shall be filed in accordance with Section 01 32 16-1.13, ADJUSTMENT OF PROJECT TIME.

The public utility, that owns the affected utility/asset, shall have the sole discretion to perform repairs or relocation work or permit the Contractor to do such repairs or relocation work at a reasonable price. The right is reserved to the City and the owners of utilities or their authorized agents to enter into the Site for the purpose of making such changes as are necessary for the rearrangement of their facilities or for making necessary connections or repairs to their properties. The Contractor shall cooperate with forces engaged in such work and shall conduct its operations in such a manner as to avoid any unnecessary delay or hindrance to the work being performed by such forces and shall allow the respective utilities time to relocate their facility.

When the Agreement indicates that a utility is to be relocated, altered or constructed by others, the City will conduct all negotiations with the utility company and the work will be done at no cost to the Contractor, unless otherwise stipulated in the Agreement.

Temporary or permanent relocation or alteration of utilities approved by the utility owner and the City that is desired by the Contractor for its own convenience shall be the Contractor's responsibility and it shall make arrangements and bear all costs for such work.

8.8 Surface Restoration

Surface restoration shall be defined as that work necessary to restore the excavated area above backfill and the scarred surrounding work areas to a condition equivalent to or better than existed prior to the construction. This may include pavement replacement, concrete curbs and surface replacement, seeding, shrub and plant replacement, and restoration of ditches and drainage areas.

The replacement of grass and/or wild flowers shall be accomplished by seeding. The kind and type of seed is to be determined by the City. The City and Contractor shall agree before proceeding as to which plants and shrubs shall be saved or replaced.

The restoration of trench surfaces shall include measures to prevent surface erosion of the trench. This shall include seeding, cutoff walls, surface header boards, water bars, interceptor dikes, gravel filter dikes, or rip rap energy dissipaters. These measures shall be used as required to prevent surface erosion.

8.9 Disposal of Materials

Unless otherwise specified in the Contract Documents, the Contractor shall make arrangements for disposing of materials. Excess excavated material not required for backfill, debris, chemicals, sledges and other removed materials shall be disposed of legally by the Contractor.

When any materials, including excess of unsuitable excavated earth or other materials are to be disposed of off the Site, the Contractor shall first obtain a written permit from the property owner on whose property the disposal is to be made and shall file said permit or certified copy together with a written release from the property owner absolving the City from any and all responsibility in connection with the disposal of material on said property. Before any material is disposed of on said property, the Contractor shall obtain permission from the City's Representative to dispose of the material at the location designated in said permit.

Unless otherwise provided in the Contract Documents, full compensation for all cost involved in disposing of materials as above specified, including all costs of overhaul, shall be considered as included in the prices paid for the various contract items of work and no additional allowance will be made.

8.10 American Iron and Steel Requirement Compliance

Goods and services under this Agreement may be funded with monies made available by CWSRF that have statutory requirements commonly known as "American Iron and Steel;" that requires all of the iron and steel products used in the Project to be produced in the United States ("American Iron and Steel Requirement") including iron and steel products provided by the Contactor pursuant to this Agreement. The Contractor shall comply with the American Iron and Steel Requirement, and all of the iron and steel products applicable to the American Iron and Steel Requirement used in the Project shall be and/or have been produced in the United States in a manner that complies with the American Iron and Steel Requirement, unless a waiver of the requirement is approved. The Contractor shall also provide any further verified information, certification or assurance of compliance with this paragraph, or information necessary to support a waiver of the American Iron and Steel Requirement, as may be requested by the City or Funding Agency. Notwithstanding any other provision of this Agreement, any failure to comply with this paragraph by the Contractor shall permit the City to recover as damages against the Contractor any loss, expense, or cost including without limitation attorney's fees incurred by the City or Funding Agency resulting from any such failure including without limitation any impairment or loss of funding, whether in whole or in part, from the Funding Agency or any damages owed to the Funding Agency by the City.

ARTICLE 9 - PROGRESS OF THE WORK

9.1 Commencement of Work

Within forty-five (45) calendar days after executed of the Agreement, written Notice to Proceed will be issued by the City to Contractor. Notwithstanding other provisions of the Agreement, the Contractor shall not be obligated to perform the Work, and the City shall not be obligated to accept or pay for such Work performed by the Contractor, prior to City's issuance of the Notice to Proceed. The Contractor shall provide the required Agreement bonds and evidences of insurance prior to the City's execution of this Agreement and prior to commencement of any Work.

The Contractor shall commence execution of the Work within ten (10) days after the date established in the Notice to Proceed for the commencement of Contract Time.

The Contractor shall give the Construction Manager written notice not less than five (5) working days in advance of the actual date on which the Work is to begin on the Site (excluding Preconstruction Services performed under the Agreement) will be started. The Contractor shall be entirely responsible for any delay in the Work which may be caused by its failure to give such notice.

9.2 Contract Time

All time limits for Substantial Completion, and Final Completion as stated in the Contract Documents are of the essence of the Agreement. The counting of Working or Calendar Days shall begin ten (10) Calendar Days from the date the Notice to Proceed is issued. The Contractor shall prosecute the Work so that the various portions of the Work shall be complete and ready for use within the times specified in Exhibit F, COMPLETION TIMES AND LIQUIDATED DAMAGES. It is expressly understood and agreed by and between the Contractor and the City that the Contract Time(s) for Contract Milestones, Substantial Completion of the Work and for Final Completion are reasonable times taking into consideration the average climatic and economic conditions and other factors prevailing in the locality and the nature of the Work known as of the date this Agreement is entered into.

9.3 Delays

9.3.1 Notice of Delays - When the Contractor foresees a delay in the prosecution of the Work and, in any event, promptly upon the occurrence of a delay to its Work, the Contractor shall notify the Construction Manager in writing of the occurrence of delay, providing the estimated extent of the delay and its cause. The Contractor shall take immediate steps to prevent or mitigate, if possible the occurrence or

continuance of the delay.

The Contractor agrees that no claim shall be made for any occurrence of delay that is not the subject of a written notice and that is not submitted to the attention of the Construction Manager within ten (10) calendar days of its occurrence. The City may accept a delay with more than ten (10) calendar days of notice if the City finds that the Contract was acting in good faith and the City was not Prejudiced by the Contractor's failure to timely provide the required notice.

9.3.2 Non-Excusable Delays – Non-excusable delays in the prosecution of the Work are delays which were caused by the Contractor, or by its subcontractors and suppliers, at any tier level, or delays which could have been avoided by the exercise of care, prudence, and diligence on the part of the Contractor or its subcontractors or suppliers, at any tier level. The Contractor shall receive no compensation or time extension for such delay. The determination of Non-Excusable Delays shall be made solely by the Construction Manager. In the event that the Contractor is not in agreement with the Construction Manager's decision, the Contractor may appeal the decision by submitting to the City (for consideration), evidence that supports the Contractor's claim for an Excusable Delay consideration.

9.3.3 Excusable Delays - Excusable Delays in the prosecution or completion of the Work are delays which are not caused by or within the control of Contractor and which could not have been avoided by the exercise of care, prudence, foresight, and diligence on the part of the Contractor or its subcontractors or suppliers, at any tier level. In addition, before a delay will be deemed an "Excusable Delay," the delay must prevent the Contractor from proceeding with at least seventy-five (75%) percent of the normal labor and equipment force for at least five (5) hours per day toward completion of the current critical activity item(s) on the latest approved progress schedule submitted by Contractor in accordance with the Contract Documents. The Contractor shall receive no compensation for such delay unless such delay also qualifies as a Compensable Delay, as described below. The following are examples of Excusable Delays:

A. Abnormal Delays - Delays caused by fire, unusual storms, floods, tidal waves, earthquakes, strikes, labor disputes, freight embargoes, and shortages of materials shall be considered as Excusable Delays insofar as they prevent the Contractor from proceeding with at least seventy-five (75%) percent of the normal labor and equipment force for at least five (5) hours per day toward completion of the current critical activity item(s) on the latest favorably reviewed progress schedule.

B. Weather Delays – Delays caused by inclement weather conditions or the conditions resulting from inclement weather shall be considered as "Excusable Delays" if they prevent the Contractor from proceeding with seventy-five (75%) percent of the normal labor and equipment force engaged in the current critical activity item for a period of at least five (5) hours per day toward completion of such operation or operations, and the crew is dismissed as a result thereof.

C. Material Shortages - Upon the Contractor's submission of satisfactory proof to the Construction Manager, shortages of material may be considered an "Excusable Delay" upon the satisfaction of the conditions set forth herein. The Contractor must demonstrate that the Contractor has made every effort to obtain such materials from all known sources within reasonable reach of the proposed Work. Only the physical shortage of material, caused by unusual and unforeseeable circumstances, will be considered as eligible for an "Excusable Delay," and no consideration will be given to any claim that the material could not be obtained at a reasonable, practical, or economical cost or price, unless it is shown to the satisfaction of the Construction Manager 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 usual practices in obtaining such quantities. A time extension for shortage of material will not be considered for material ordered or delivered late or whose availability is affected by virtue of the Contractor's or its subcontractor's or supplier's mishandling of the procurement for such material. The above provisions apply equally to equipment to be installed in the Work. Nothing herein is intended to affect the Contractor also needing to demonstrate that the delay

must prevent the Contractor from proceeding with at least seventy-five (75%) percent of the normal labor and equipment force for at least five (5) hours per day toward completion of the current critical activity item(s) on the latest favorably reviewed progress schedule.

9.3.4 Compensable Delays – Compensable Delays in the prosecution or completion of the Work are delays which meet each of the following three elements: (1) delays which result from causes beyond the control of the Contractor and which could not have been avoided by the reasonable exercise of care, prudence, and diligence on the part of the Contractor or its subcontractors or suppliers, at any tier level; (2) delays that prevent the Contractor from proceeding with at least seventy-five (75%) percent of the normal labor and equipment force for at least five (5) hours per day toward completion of the current critical activity item(s) on the latest approved progress schedule; and (3) delays that are caused by one of the following three causes:

A. Delays due to the actions and/or inactions of the City, Construction Manager, Engineer or any of their agents or employees.

B. Delays due to differing site conditions as defined in Article 10.2, DIFFERING SITE CONDITIONS.

C. Delays due to other contractors (excluding W.M. Lyles) employed by the City who interfere with the Contractor's prosecution of the Work as defined above.

9.3.5 Concurrent Delays – Concurrent delays are those delay periods when the prosecution of the Work is delayed during the same period of time due to causes from a combination of the delays defined in Article 9.3.2, NON-EXCUSABLE DELAYS, Article 9.3.3, EXCUSABLE DELAYS, or Article 9.3.4, COMPENSABLE DELAYS. During such concurrent delay periods, time extensions will be granted in accordance with Article 9.4, TIME EXTENSIONS; however, the Contractor will be granted a non-compensable time extension, and the City shall not assess its actual costs as defined in Article 9.4.1, NON-EXCUSABLE DELAYS, nor will the City assess Liquidated Damages.

9.4 Time Extensions

9.4.1 Non-Excusable Delays – The Contractor shall receive no compensation or time extension for Non-Excusable Delays.

9.4.2 Excusable or Compensable Delays – If the Contractor is delayed in the performance of its Work as defined in Article 9.3.3, EXCUSABLE DELAYS, or Article 9.3.4, COMPENSABLE DELAYS, then the Contract Time(s) will be extended by the City for such time that, the Contractor shows, and the City agrees (which agreement will not be unreasonably withheld), the Project's critical path completion dates will be delayed, provided that the Contractor strictly fulfills the following:

A. The Contractor shall have provided written notification, in accordance with Article 9.3.1, NOTICE OF DELAYS;

B. The Contractor shall have submitted in writing a request for an extension of time to the Construction Manager stating at a minimum the cause of the delay and the estimated number of days being requested. Such request for an extension of time shall be submitted in accordance with the requirements of 01 32 16-1.13, ADJUSTMENT OF PROJECT TIME. As provided therein, the Contractor's request for a time extension shall be submitted within fifteen (15) days of the Contractor furnishing its written notice pursuant to Article 9.3.1, NOTICE OF DELAYS. In the case of an Excusable Delay or Compensable Delay that allegedly is impacting the Contractor's operations for a period longer than fifteen (15) days, the Contractor shall update its request for a time extension, including updating its time impact analysis, every thirty (30) days until the delay is no longer allegedly impacting the Contractor's operations.

C. If the Contractor maintains that the delay at issue is a Compensable Delay, the Contractor shall submit an estimate of the additional compensation for Field Overhead and Indirect Home Office Overhead (per Article 9.4.3, FIELD OVERHEAD AND INDIRECT HOME OFFICE OVERHEAD FOR COMPENSABLE DELAYS) that it is seeking in regards to the alleged delay. This estimate shall be included with the Contractor's request for time extension that is described in paragraph B, above. In the case of a Compensable Delay that allegedly is impacting the Contractor's operations for a period longer than fifteen (15) days, the Contractor shall update its estimate of additional compensation every thirty (30) days until the delay is no longer allegedly impacting the Contractor's operations.

D. If requested by the Construction Manager, the Contractor shall provide sufficient information to the Construction Manager to assess the cause or effect of the alleged delay (as well as additional compensation in the case of Compensable Delay), or to determine if other concurrent delays affected the Work. Such additional information shall be furnished within fifteen (15) days of the Construction Manager's request for additional information.

E. Time extensions due to Excusable or Compensable Delays will be granted only if such delays involve controlling critical path operations which would prevent completion of the whole Work within the specified Contract Time(s), as described in the above conditions for determination of "Excusable Delay" or "Compensable Delay."

F. **Force Majeure**. Force Majeure events shall be considered Excusable Delays. Any claim by Contractor to classify a Force Majeure event as a Compensable Delay shall be handled pursuant to Article 11.1, RESOLUTION OF DISPUTES. See definition of Force Majeure in Article 1, DEFINITIONS OF LANGUAGE USED, WORDS AND TERMS.

Construction Manager will, in writing, approve or reject the Contractor's request for a time extension within fifteen (15) days of the latter of (i) the Construction Manager's receipt of the Contractor's complete request for a time extension; or (ii) the Construction Manager's receipt of the additional information referenced in paragraph C, above. Should Construction Manager not provide a written response within such fifteen (15) day time period, the Contractor's request shall be deemed denied by the City.

If the Construction Manager determines that the Contractor is entitled to a time extension, during such approved extension of time, neither extra compensation for engineering, inspection and administration nor damages for delay will be charged to the Contractor.

For Weather Delays, the Contractor will be granted a non-compensable time extension for weather caused delays, pursuant to Article 9.3.3.B, WEATHER DELAYS, over and above an allowance as provided for in Exhibit F, COMPLETION TIMES AND LIQUIDATED DAMAGES. No time extensions for weather delays will be granted until the total number of weather days exceeds this allowance.

Should the Contractor fail to complete the Work within the time specified in the Agreement, as extended in accordance with this clause if appropriate, the Contractor shall pay to the City liquidated damages in accordance with Article 9.5, LIQUIDATED DAMAGES.

9.4.3 Field Overhead and Indirect Home Office Overhead for Compensable Delays

The Contractor shall be compensated for field overhead and indirect home office overhead expenses due to Compensable Delays for periods of time when the Work is delayed as defined in Article 9.3.4, COMPENSABLE DELAYS. However, no payment shall be made for compensable delays which occur during a concurrent delay as defined in Article 9.3.5, CONCURRENT DELAYS. As a condition precedent to payment for field overhead and indirect home office overhead, the Contractor must fulfill all conditions as provided in Article 9.4.2, EXCUSABLE OR COMPENSABLE DELAYS. Compensation will be calculated in accordance with 9.4.3.1 and 9.4.3.2, below. No additional markup for overhead or profit shall be provided for such field overhead and indirect home office overhead expenses.

Payment to the Contractor for indirect overhead expenses will be made only if the extended Contract Time period granted for the compensable delay(s) is required to complete the Work following the depletion of the original Contract Time period and any time extensions granted other than compensable time extensions. Payment for field overhead and indirect home office overhead shall be calculated as follows:

9.4.3.1 Field Overhead – For those allowable delay periods as described in Article 9.4.3, FIELD OVERHEAD AND INDIRECT HOME OFFICE OVERHEAD FOR COMPENSABLE DELAYS, the Contractor shall be reimbursed for its field overhead based on:

A. Actual invoice costs for on-site field offices and temporary utilities as described in Section 01 50 00, TEMPORARY FACILITIES AND CONTROLS.

B. Actual labor costs as shown in Exhibit C, GUARANTEED MAXIMUM PRICE, COST OF WORK AND FEE, for field office staff.

C. Fair rental values acceptable to the Construction Manager as described in Section 01 26 00-3.2, COST DETERMINATION, for construction equipment idled due to the delay.

D. Actual Errors and Omissions insurance costs attributable to delay periods.

9.4.3.2 Indirect Home Office Overhead – For those delay periods as described in the introduction of Article 9.4.3, FIELD OVERHEAD AND INDIRECT HOME OFFICE OVERHEAD FOR COMPENSABLE DELAYS, the Contractor shall be reimbursed for its indirect home office overhead based on the following formula:

[Guaranteed Maximum Price ($) divided by the Contract Time Period (Calendar Days)] x 0.03 = Daily Indirect Home Office Overhead ($/Calendar Day)

As it is impractical to determine the actual home office overhead, such reimbursement shall encompass full payment for any and all indirect home office overhead expenses for such periods of time for the Contractor and all subcontractors. Distribution of the markup amount among the Contractor and all subcontractors and suppliers is the responsibility of the Contractor.

9.5 Liquidated Damages

9.5.1 City and the Contractor recognize that time is of the essence of this Agreement and that the City will suffer financial loss if the Work is not completed within the times specified in Exhibit F, COMPLETION TIMES AND LIQUIDATED DAMAGES, plus any extensions thereof allowed in accordance with Article 9.4, TIME EXTENSIONS. It is hereby understood and agreed that it is and will be difficult and/or impossible to ascertain and determine the actual damage which the City will sustain in the event of and by reason of the Contractor's failure to fully perform the Work or to fully perform all of its Agreement obligations that have accrued by the times for completion as specified in Exhibit F, COMPLETION TIMES AND LIQUIDATED DAMAGES.

9.5.2 It is, therefore, agreed in accordance with California Government Code Section 53069.85 that the Contractor will forfeit and pay to the City liquidated damages in the amount set forth in Exhibit F, COMPLETION TIMES AND LIQUIDATED DAMAGES, per day for each and every calendar day that expires after the times for completion specified in Exhibit F, COMPLETION TIMES AND LIQUIDATED DAMAGES, and/or as specified for completion of any scheduled operations or works described in Exhibit F, COMPLETION TIMES AND LIQUIDATED DAMAGES, except as otherwise provided by extension of time pursuant to Article 9.4, TIME EXTENSIONS. It is further understood and agreed in accordance with California Government Code Section 53069.85 that the liquidated damages sum specified in this provision is not manifestly unreasonable under the circumstances existing at the time this Agreement was made, and that the City may deduct liquidated damages sums in accordance with this provision from any payments

due or that may become due the Contractor.

9.5.3 Liquidated damages will continue to accrue at the stated rate until the completion of any defined completion milestone(s) and Final Completion of Work, all as set forth in Exhibit F, COMPLETION TIMES AND LIQUIDATED DAMAGES. Accrued liquidated damages may be deducted by the City from amounts due or that become due to the Contractor for performance of the Work. Liquidated damages may not be waived or reduced by the City unless expressly waived or reduced in writing by the City.

9.6 City Suspension of Work

9.6.1 If the Contractor fails to correct Defective Work as required by Article 8.5, MATERIALS AND WORKMANSHIP, or fails to carry out the Work in accordance with the Contract Documents or any other applicable rules and regulations, or otherwise breaches a material provision of the Agreement, and fails to respond to the City's written notice of the alleged default within ten (10) days, the City, by a written order of the City's Representative or signed personally by an agent specifically so empowered by the City, in writing, may order the Contractor to stop the Work, in its entirety or any portion thereof. In the event of a suspension of only a portion of the Work, the Contractor is obligated to perform the portion of the Work not suspended. The suspension of Work shall remain in effect until the condition or cause for such order has been eliminated. The City's concurrence that the condition or cause has been eliminated will be provided to the Contractor in writing. This right of the City to stop and suspend the Work shall not give rise to any duty on the part of the City to exercise this right for the benefit of the Contractor or any other person or entity. All delays in the Work occasioned by such stoppage shall not relieve the Contractor of any duty to perform the Work or serve to extend the time for its completion. Any and all work necessary to correct Defective Work in order to comply with the Contract Documents shall be performed at no cost to the City.

9.6.2 In the event that a suspension of Work is ordered as provided for in paragraph 9.6.1, the Contractor, at its expense (i.e., without reimbursement as a Cost of Work or an increase in the GMP), shall perform all Work necessary to provide a safe, smooth, and unobstructed passageway through construction for use by the City, the City's other contractors, public, pedestrian, and vehicular traffic, during the period of such use by suspension. Should the Contractor fail to perform the Work as specified, the City may perform such Work and the cost thereof may be deducted from partial payments and/or final payment due the Contractor under the Agreement. The City is also entitled to withhold any costs, expenses and/or damages incurred, in proportion to the Contractor's proportion of responsibility for the suspension, including consultants' costs and fees, due to the suspension of Work if the suspension was due to Contractor's fault. Contractor shall not be entitled to any relief pursuant to an Excusable Delay or Compensable Delay for the Work impacted by any suspension hereunder.

9.6.3 The City shall also have authority to suspend the Work wholly or in part, for such period as the City may deem necessary, due to convenience to the City, unsuitable weather, or to such other conditions as are considered unfavorable for the suitable prosecution of the Work. Such temporary suspension of the Work, if for City's convenience and reasons unrelated to deficiencies in Contractor's performance, shall be a Compensable Delay in accordance with Article 9.3.4, COMPENSABLE DELAYS and justification for time extension pursuant to the provisions set forth in Article 9.4, TIME EXTENSIONS.

9.6.4 The Contractor as directed by the City shall comply with the provisions in Article 9.6, CITY SUSPENSION OF WORK, above. Such additional work shall be compensated as provided for in Article 10, CHANGES IN THE WORK, unless the City's suspension of the Work is caused by the Contractor's failure to prosecute the Work in accordance with the Contract Documents.

9.7 City's Right to Terminate Contract

9.7.1 Termination for Default – If the Contractor refuses or fails to prosecute the Work or any separable part thereof with such diligence as will ensure its completion within the Contract Time(s) specified herein, or any authorized extension thereof, or fails to perform the Work in a manner required by the Contract Documents, or fails to complete such Work within such time as required under the Contract Documents or, if the Contractor should be adjudged as bankrupt, or is otherwise deemed insolvent by the

City based on good cause and is unable to proceed with the Work, or if the Contractor should make a general assignment for the benefit of creditors, or if a receiver should be appointed on account of insolvency, or if the Contractor files a petition to take advantage of any debtor's act, or if the Contractor should persistently or repeatedly refuse or fail (except in cases for which an authorized extension of time is provided) to supply enough properly skilled workers or proper materials to complete the Work in the time specified, or if the Contractor should fail to make prompt payment to subcontractors of undisputed amounts due for material or labor, or if the Contractor should persistently disregard laws or instructions given by City, or if the Contractor otherwise substantially fails to fulfill its obligations under the Contract Documents the City may, without prejudice to any other right or remedy, serve written notice upon the Contractor and Sureties of the City's intention to terminate the Contractor's performance under the Agreement. Said notice shall contain the reasons for such intention to terminate the Contractor's performance under the Agreement, and unless, within seven (7) days after the service of such notice, such alleged violations cease and satisfactory arrangements for the corrections thereof have been made, the City may terminate Contractor's performance under the Agreement and the Contractor shall not be entitled to receive any further payment until the Work is finished.

In the event of any such termination, the City shall serve written notice thereof upon the Surety and Contractor, and the Surety shall have the right to take over and perform the Agreement. However, if the Surety, within ten (10) days after the service of a notice of termination, does not give the City written notice of its intention to take over and perform the Agreement, or if it serves such notice of its intent to take over and perform the Agreement and does not begin performance thereof within fifteen (15) days from the date of serving said notice, the City may take over the Work and prosecute the same to completion by contract or by any other method it may deem advisable for the account and at the expense of the Contractor, and the Sureties and/or Contractor shall be liable to the City for any excess cost or other damage incurred by the City thereby. In such an event, the City may without liability for so doing, take possession of and utilize such materials, supplies and other property belonging to the Contractor and/or assume assignment of any and all subcontracts for subcontractors and/or suppliers that may be on the worksite and be necessary to complete the Work. For any portion of such Work that City elects to complete by furnishing its own employees, materials, tools, and equipment, the City shall be compensated in accordance with the schedule of compensation for force account work as stated in Section 01 26 00, CONTRACT MODIFICATION PROCEDURES.

If the Surety assumes the Contractor's terminated Work, it shall take the Contractor's place in all respects for that part and shall be paid by City for all Work performed by it in accordance with the terms of the Contract Documents, less any amounts City is entitled to withhold pursuant to the Contract Documents. If the Surety assumes the entire Agreement, all money due the Contractor at the time of its default shall be payable to the Surety as the Work progresses, subject to the terms of the Agreement.

In the event of a termination based on Contractor's default, the Contractor will be paid the actual amount due in accordance with the Contract Documents less damages caused to the City arising from the termination, including but not limited to, consultants' costs, attorneys' fees and all costs to the City to complete the Work including all costs generated to insure or bond the work of substituted contractors or subcontractors utilized to complete the Work, such excess shall be paid to the Contractor. If City's costs to complete the Work, including the aforementioned costs exceed the unpaid balance, the Contractor shall pay the difference to the City promptly upon demand. On failure of the Contractor to pay, the Surety shall pay upon demand by City. Any portion of such difference not paid by the Contractor or Surety within thirty (30) days following the mailing of a demand for such costs shall earn interest at the maximum rate authorized by California law.

The Contractor and the City agree that nothing in this article is intended to create a right to recover attorney fees as prevailing party in any lawsuit on this Agreement.

The foregoing provisions are in addition to and not in limitation of any other rights or remedies under law or in equity available to City.

If it is later determined by the City that the Contractor had an excusable reason for not performing, such as,

by way of example and not limitation, a fire, flood, or other event which was not the fault of or was beyond the control of the Contractor, the City may allow the Contractor to continue Work on a mutually agreeable schedule, or treat the termination as a termination for convenience, and the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the City. Also, in the event that it is determined by a third party, including a judge, jury or arbitrator, that the Contractor should not have been terminated for fault, then Contractor agrees that the termination will be deemed to be a termination for convenience under Article 9.7.2, TERMINATION FOR CONVENIENCE.

9.7.2 Termination for Convenience – The City, by written notice to the Contractor from the City Manager, may terminate the Contractor's performance under the Agreement, either in whole or in part, at its own discretion or when conditions encountered during the Work make it impossible or impracticable to proceed, or when the City is prevented from proceeding with the Agreement by an act of God, by law, or by official action of a public authority, or upon a determination that such termination is in the best interest and convenience of the City, or whenever the City is prohibited from completing the Work for any reason. The City shall provide no less than seven (7) days written notice of its intent to terminate the Agreement for convenience, but in no event shall City provide written notice of its intent to terminate without having a prior consultation with Contractor.

A. Upon receipt of such written notice of termination, the Contractor shall:

1. Stop Work as specified in the written notice;

2. Terminate all orders and subcontractors except as necessary to complete Work which is not terminated;

3. If directed in writing by the City to do so, assign all right, title and interest in materials in progress, in which case the City will have the right at its discretion to settle, or pay any or all Claims arising out of the termination of such materials contracts, but in no event shall recovery by any Contractor include lost profits for uncompleted portions of Work;

4. Deliver or otherwise make available to the City all data, drawings, specifications, reports, estimates, summaries and such other information and material as may have been accumulated by the Contractor in performing this Agreement whether completed or in process;

5. Settle outstanding liabilities and Claims with the approval of City;

6. Complete performance of such part of the Work as has not been terminated; and

7. Take such other actions as may be necessary, or as may be directed by the City for the protection and preservation of the Project and/or property related to the Agreement.

B. Upon receipt of City's written notice of termination for convenience, and within a period of 30 to 60 days, as determined by the City at the time of termination, the Contractor shall submit to the Construction Manager a Termination Proposal which shall include, but is not limited to, the Contractor's estimate of costs to be incurred by the Contractor as a result of the termination for convenience, and as allowed by the Contract Documents, including documentation reasonably necessary to support such costs; the status of the Work at time of termination; the status of termination of the Contractor's subcontractor(s) and Supplier(s) agreement(s) including the amount of each agreement, amount paid under each agreement up to the date of termination, and the amount that currently remains due and owing under each agreement for Work completed as of the date of termination, if any; a list, certified as to quantity and quality, of termination inventory not previously disposed of,

excluding items authorized for disposition by the Construction Manager; and any other information and/or documentation as required by City. Within thirty (30) days of receipt of Contractor's Termination Proposal, City shall provide to Contractor written acceptance of Contractor's Termination Proposal or exceptions to items within the Termination Proposal which must be modified in order to gain City's acceptance of the Termination Proposal.

Upon receipt of City's written acceptance of, or exceptions to, Contractor's Termination Proposal, the Contractor shall submit to the Construction Manager a request for final payment (or the undisputed portion of the Termination Proposal) pursuant to the Contract Document requirements. Such request shall be submitted promptly, but no later than fifteen (15) days from the effective date of receipt of City's written acceptance of, or exceptions to, Contractor's Termination Proposal.

C. Contractor shall not be entitled to recover any lost profits, fee or any other cost or expense on portion of the Work terminated. The final payment to the Contractor after termination for convenience shall not exceed the amounts due and owing under the Agreement at time of termination, including the following:

1. Any actual costs incurred by the Contractor for restocking charges or other costs reasonably incurred in negotiating termination of subcontracts and/or supply contracts;

2. The cost of the Work for protecting the Work in any manner, if any, as directed by the City; and

3. The cost of settling and paying Claims arising out of the termination of the Work under subcontract agreements or orders with the City's approval, as specified above, exclusive of the amounts paid or payable on account of goods delivered or Work furnished by subcontractor prior to the effective date of the termination; and

4. The cost of the Work and Fee allocable to the portion of the Work properly performed or goods supplied by the Contractor as of the date of termination, as determined in accordance with the Contract Documents, reduced by any sums previously paid to the Contractor.

D. The City's right to withhold under Article 12.9, WITHHOLDING OF PAYMENT shall apply to payments made under this article.

ARTICLE 10 - CHANGES IN THE WORK

10.1 Change Orders

10.1.1 Without invalidating the Agreement and without notice to sureties or insurers, the City through the Construction Manager, may at any time or from time to time, order additions, deletions, or revisions in the Work; these will be authorized by Field Directive, Field Order or Change Order. A Change Order will not be issued for a Field Directive unless the Construction Manager agrees that such Field Directive is a change in the scope of the Agreement that causes an increase in the Cost of the Work or an adjustment to the GMP or the Contract Time(s) and therefore warrants development of a Change Order. The Contractor shall comply promptly with the requirements for all Change Orders, Field Orders or Field Directives. The work involved in Change Orders and Field Orders shall be executed under the applicable conditions and requirements of the Contract Documents. By signing a Change Order, the Contractor waives any claim for additional time, not included in the Change Order, for the work covered by that Change Order. Additional or extra work performed by the Contractor without written authorization of a Change Order or Field Order will not entitle the Contractor to an increase in the GMP or an extension of the Contract Time(s).

10.1.2 Extra Work is defined in Contract Documents found in Article 1, DEFINITIONS OF LANGUAGE USED, WORDS AND TERMS. Such work shall be governed by all applicable provisions of the Contract Documents. In giving instructions, the Construction Manager shall have authority to make minor changes in the Work in writing by way of a Field Directive, not involving extra cost, and not inconsistent with the purposes of the Work; but otherwise, except in an emergency endangering life or property, no extra work or change shall be made unless in pursuance of a written order by the City through the Construction Manager, and no claim for an addition to the GMP and/or Contract Time(s) shall be valid unless so ordered.

10.1.3 In case any authorized change increases or decreases the Work shown in a Change Order, the Contractor shall be paid for the work actually done at a mutually agreed upon adjustment to the GMP, in accordance with the provisions of Section 01 26 00, CONTRACT MODIFICATION PROCEDURES.

10.1.4 If the Contractor refuses to accept a proposed Change Order, the City may issue it unilaterally with a Construction Change Directive in accordance with the provisions of Section 01 26 00, CONTRACT MODIFICATION PROCEDURES. The Contractor shall comply with the requirements of the Construction Change Directive. The City shall provide for an equitable adjustment, if any, to the GMP and/or Contract Time, and compensate the Contractor accordingly. If the Contractor does not agree that the adjustment or refusal to adjust is equitable, it may submit a claim in accordance with ARTICLE 11, DISPUTES.

10.2 Differing Site Conditions

Pursuant to Public Contract Code Section 7104, the Contractor shall promptly, and before such conditions are disturbed, notify the Construction Manager, in writing, of any:

A. Material that the Contractor believes may be material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code, which is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law.

B. Subsurface or latent physical conditions at the Site differing from those indicated by information about the Site made available to Proposers prior to the deadline for submitting bid proposals.

C. Unknown physical conditions at the Site of any unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Agreement.

The Contractor's written notice must be furnished to Construction Manager within ten (10) calendar days of Contractor discovering the alleged differing site condition. The Contractor agrees that no claim shall be made for any differing site conditions that is not the subject of a written notice submitted to the attention of the Construction Manager within ten (10) calendar days of their occurrence. The City may accept a claim with more than ten (10) calendar days of notice if the City finds that the Contract was acting in good faith and the City was not Prejudiced by the Contractor's failure to timely provide the required notice.

The City shall promptly investigate the conditions, and if it finds that the conditions do materially 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, the City shall cause to be issued a Change Order under the procedures provided in Article 10.1, CHANGE ORDERS.

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 Agreement, but shall proceed with all work to be performed under the Agreement. The Contractor shall retain any and all rights provided either by Agreement or by law which

pertain to the resolution of disputes and protests between the contracting parties, Article 11.1, RESOLUTION OF DISPUTES.

No claim of the Contractor under this clause shall be allowed unless the Contractor has given the notice required.

10.3 Taxes. A Change Order shall be executed due to any new or increased taxes arising after the date of this Agreement (other than taxes assessed based on the income of Contractor). The Change Order shall consist of the incremental amount of such new or increased taxes only. With respect to reductions in taxes arising after the date of this Agreement (other than taxes assessed based on the income of Contractor), the Change Order shall consist of the difference in amount as a result of such reduced taxes only.

10.4 Permit Fees. With respect to increases or decreases in fees for permits or other governmental certificates or instruments arising after the effective date of this Agreement, a Change Order will be prepared and proposed to Contractor that shall consist of the incremental amount of such increases or decreases. To the extent this Agreement states that a permit or certificate is not required and Contractor is later required to procure such permit or certificate, all out-of-pocket costs reasonably associated therewith shall be included in the Change Order. The fees for permits and related costs associated with permits that was included in the GMP shall be listed in Exhibit C, GUARANTEED MAXIMUM PRICE, COST OF WORK AND FEES.

ARTICLE 11 - DISPUTES

11.1 Resolution of Disputes

It is the intent of this Agreement that disputes regarding the Agreement be resolved promptly and fairly between the Construction Manager and Contractor. However, it is recognized that some disputes will require detailed investigation and review by one or both parties before a determination and resolution can be reached. For the protection of the rights of both the Contractor and City the following provisions are provided for the resolution of disputes which cannot be resolved by the Contractor and Construction Manager.

11.1.1 Notice and Contract Claim. Either party shall provide written notice of disputed or potentially disputed Work to the other party prior to the commencement of and sufficiently in advance of performing the disputed Work to allow both parties joint initial review of the disputed Work. If there is disagreement subsequent to the initial review, the Contractor shall formally request a Contract Interpretation by the Construction Manager in accordance with Article 5.3.9, CONTRACT INTERPRETATION BY THE CONSTRUCTION MANAGER. If the Contractor disagrees with the Construction Manager's decision or in any case where the Contractor deems additional compensation or a time extension to the Contract Time is due the Contractor for work or materials not covered in the Agreement or which the Construction Manager has not recognized as extra work, the Contractor may file a written "Contract Claim" with the Construction Manager within ten (10) days of receipt of the Construction Manager's contract interpretation decision or, if the claim does not involve a Construction Manager contract interpretation decision, within ten (10) days after the date of the occurrence, event or circumstance giving rise to the claim. Additionally, if the claim relates to extra, additional or unforeseen work for which the Contractor intends to demand additional compensation, a time extension, or both, notice shall be given to the Construction Manager prior to the time that the Contractor commences performance of the work giving rise to the potential claim for additional compensation or time extension, and Contractor shall not proceed with that work until so directed by the Construction Manager. A Contract Claim must (a) be in writing, (b) be labeled or clearly indicated as a claim under the Agreement, (c) set forth in detail the reasons why the Contractor believes additional compensation or a time extension is or may be due, the nature of the costs involved, and, insofar as possible, the amount of the claim, and (d) include (or reference earlier provided) documents that support and substantiate the claim as to both entitlement and quantification of time, money, or both. A claim for purposes of this article means a separate demand by the Contractor for (a) a time extension (including a demand for relief from damages or penalties for delay assessed by the City under the Agreement), (b) payment of money or damages arising from work done by, or on behalf of, the Contractor pursuant to the

Agreement and payment of which is not otherwise expressly provided for or the Contractor is not otherwise entitled to, or (c) an amount the payment of which is disputed by the City.

Additionally, no claim for additional compensation or extension of time for a delay will be considered unless the provisions of Article 9.3, DELAYS, and Article 9.4, TIME EXTENSIONS, are complied with. No untimely claim or claim filed after the date of final payment will be considered.

Unless a timely Contract Claim is properly given, the Contractor shall not recover costs incurred by it as a result of the alleged extra work, changed work or other situation which had proper notice been given would have supported a claim for additional compensation. The Contractor should understand that timely notice of a Contract Claim is of great importance to the Construction Manager and City, and is not merely a formality. Such notice permits the City to consider preventative action, to monitor the Contractor's increased costs resulting from the situation, to marshal facts, and to plan its affairs. Such notice by the Contractor, and the fact that the Construction Manager has kept account of the work in question, shall not in any way be construed as proving the validity of any claim.

11.1.2 Processing of Claims, Generally. This Agreement provides for three types of Contract Claims, which will be processed and resolved under different terms as described below. Any claim for money or damages of $375,000 or less or for a time extension (i.e., any claim subject to Public Contract Code section 20104) shall be processed and resolved in accordance with Article 11.1.3. Any claim for money or damages of more than $375,000 (i.e., any claim not subject to Public Contract Code section 9204 or 20104) shall be processed and resolved in accordance with Article 11.1.4. Any Contract Claim sent to City by registered mail or certified mail with return receipt requested (i.e., any claim subject to Public Contract Code section 9204) shall be processed and resolved pursuant to Article 11.1.5.

11.1.3 Claims for $375,000 or Less or for Time Extension and Not Sent by Registered or Certified Mail.

11.1.3.1 Application. This article applies to all claims (not sent by registered or certified mail) for $375,000 or less in value, including any claim for a time extension or for a time extension that includes claimed delay damages of $375,000 or less.

11.1.3.2 City Response to Contract Claim. The Construction Manager shall respond in writing to the Contract Claim within 60 days of receipt of the claim (or within 45 days of receipt for claims of less than $50,000), or may request, in writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses to the claim the City may have against the Contractor. If additional information is thereafter required, it shall be requested and provided pursuant to this article, upon mutual agreement of the Construction Manager and the Contractor. The Construction Manager's written response to the claim, as further documented, shall be submitted to the Contractor within 30 days after receipt (or 20 days after receipt for claims of less than $50,000) of the further documentation. The City shall not fail to pay money as to any portion of a Contact Claim that is undisputed except as otherwise provided in the Contract Documents.

11.1.3.3 Meet and Confer. If the Contractor disputes the Construction Manager's written response, or the Construction Manager fails to respond within the time prescribed, the Contractor may notify the City, in writing, either within 15 days of receipt of the Construction Manager's response or within 15 days of the Construction Manager's failure to respond within the time prescribed, respectively, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon such a demand, the City shall schedule a meet and confer conference within 30 days for the parties to consider settlement of the dispute. If the Contractor fails to timely demand a meet and confer conference within the applicable 15-day period, then the Contractor shall be deemed not to dispute the Construction Manager's written response to the Contract Claim and the Construction Manager's decision on the Contract Claim shall be final, conclusive and binding, and the Contractor shall be deemed to have waived all its rights to further protest, judicial or otherwise.

11.1.3.4 Government Code Claim. Following the meet and confer conference, if

the Contract Claim or any portion remains in dispute, the Contractor may file a Government Code Claim as provided in Government Code title 1, division 3.6, part 3, chapters 1 (commencing with section 900) and 2 (commencing with section 910). The running of the period of time within which Contractor must file a Government Code Claim shall be tolled from the time the Contractor submits a timely Contract Claim pursuant to Article 11.1.1, NOTICE AND CONTRACT CLAIM until the time that the Contract Claim is denied as a result of the meet and confer process, including any period of time utilized by the meet and confer process. The City shall respond to any Government Code Claim in accordance with the Government Claims Act.

11.1.3.5 Lawsuit. If the claim is not resolved pursuant to Article 11.1.3.4, GOVERNMENT CODE CLAIM, the Contractor may file a lawsuit on the claim within the limitations period provided by the Government Claims Act. If the Contractor fails to timely file a lawsuit within the limitations period of the Government Claims Act, then the City's response to the Government Code Claim shall be final, conclusive and binding on the Contractor, and the Contractor thereafter shall be barred from filing a lawsuit on the claim.

11.1.3.6 Mediation. If the Contractor timely files a lawsuit, then within 60 days, but no earlier than 30 days, following the filing of responsive pleadings, the court shall submit the matter to non-binding mediation (unless waived by mutual stipulation of both parties). The mediation process shall provide for the selection within 15 days by both parties of a disinterested third person as mediator, shall be commenced within 30 days of the submittal, and shall be concluded within 15 days from the commencement of the mediation unless a time requirement is extended upon a good cause showing to the court or by stipulation of both parties. If the parties fail to select a mediator within the 15-day period, any party may petition the court to appoint the mediator. The mediator's fees and expenses shall be split and paid equally between the parties. The court may, upon request by any party, order any witnesses to participate in the mediation process.

11.1.3.7 Arbitration. If the matter remains in dispute following the mediation or if the parties waive the mediation, then the case shall be submitted to judicial arbitration pursuant to Code of Civil Procedure part 3, title 3, chapter 2.5 (commencing with section 1141.10), notwithstanding section 1141.11 of that code. The Civil Discovery Act of 1986 (Code of Civil Procedure part 4, title 3, chapter 3, article 3 (commencing with section 2016)) shall apply to any proceeding brought under this article consistent with the rules pertaining to judicial arbitration. The arbitrator shall be experienced in public works construction law. The arbitrator's fees and expenses shall be split and paid equally by the parties, except where the arbitrator, for good cause, determines a different division. The court may, upon request by any party, order any witnesses to participate in the arbitration process. Any party who, after receiving an arbitration award, requests a trial de novo but does not obtain a more favorable judgment shall (in addition to payment of any costs and fees under Code of Civil Procedure part 3, title 3, chapter 2.5 (commencing with section 1141.10)) pay the attorney's fees of the other party arising out of the trial de novo.

11.1.3.8 Interest. In any lawsuit filed under this article, the City shall pay interest at the legal rate on any arbitration award or judgment. The interest shall begin to accrue on the date the lawsuit is filed in court.

11.1.4 Claims for More Than $375,000 and Not Sent by Registered or Certified Mail

11.1.4.1 Application. This article applies to all claims (not sent by registered or certified mail) that exceed $375,000 in value, including any claim for a time extension that includes claimed delay damages exceeding $375,000.

11.1.4.2 City's Response to Contract Claim. The Construction Manager shall respond in writing to the Contract Claim within 60 days of receipt of the claim, or may request, in writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses to the claim that the City may have against the Contractor. If additional information is thereafter required, it shall be requested and provided pursuant to this article, upon mutual agreement of the Construction Manager and the Contractor. The Construction Manager's written response to the claim, as

further documented, shall be submitted to the Contractor within 30 days after receipt of the further documentation. If the Contractor fails to timely dispute the Construction Manager's decision on the matter in accordance with Article 11.1.4.3, GOVERNMENT CODE CLAIM, then the Contractor shall be deemed not to dispute the Construction Manager's written response to the Contract Claim and the Construction Manager's decision shall be final, conclusive and binding, and the Contractor shall be deemed to have waived all its rights to further protest, judicial or otherwise.

11.1.4.3 Government Code Claim. If the Contractor disputes the Construction Manager's written response to the Contract Claim, the Contractor may file a Government Code Claim as provided in Government Code title 1, division 3.6, part 3, chapters 1 (commencing with section 900) and 2 (commencing with section 910). The City shall respond to any Government Code Claim in accordance with the California Government Claims Act.

11.1.4.4 Lawsuit. If the claim is not resolved pursuant to Article 11.1.4.3, GOVERNMENT CODE CLAIM, the Contractor may file a lawsuit on the claim within the limitations period provided by the Government Claims Act. If the Contractor fails to timely file a lawsuit within the limitations period of the Government Claims Act, then the City's response to the Government Code Claim shall be final, conclusive and binding on the Contractor, and the Contractor thereafter shall be barred from filing a lawsuit on the claim.

11.1.4.5 Judicial Reference. If the Contractor timely files a lawsuit, the case shall be submitted to judicial reference pursuant to California Code of Civil Procedure Sections 638 and 640 through 645.1 (or any successor statute) and California Rules of Court title 3, division 9 (commencing with section 3.900). As authorized by Code of Civil Procedure section 638, a referee will consider and decide all factual and legal issues in the action. Each party acknowledges that it will not have any right to a jury trial or to have any judicial officer besides the referee hear or decide the action. When Contractor initiates the superior court lawsuit, it will, at the same time it files the complaint in the action, also file a motion for appointment of a single referee.

A. Appointment of a referee shall be by mutual agreement within 30 days between the parties, and if unsuccessful, then by the court and will be governed by Code of Civil Procedure Section 640, and subject to objection by either party as provided by Code of Civil Procedure Section 641. The referee must be a retired judge or a licensed attorney with at least ten (10) years substantive experience in public works construction matters.

B. The parties shall be entitled to discovery and the referee shall oversee discovery and may enforce all discovery orders in the same manner as a superior court judge. The referee shall have the authority to consider and rule on appropriate pre-hearing and post-hearing motions in the same manner as a superior court judge. The referee will have the authority to set a briefing and hearing schedule for any such motion or for a hearing on the merits.

C. The referee's statement of decision shall include findings of fact and conclusions of law. The statement of decision will stand as the decision of the superior court and, upon filing of the statement with the clerk of the court, judgment may be entered pursuant to Code of Civil Procedure Section 644, subsection (a). The parties will have rights to appeal the final judgment so entered.

D. Each party will pay half of the costs of the referee and the administrative fees of the reference proceeding, and each party will bear its own costs, expenses and attorney fees for the reference proceeding.

11.1.5 Claims Subject to Public Contract Code Section 9204

11.1.5.1 This article applies to all Contract Claims sent by registered or certified mail with return receipt requested. The Contract Claim will be processed and resolved pursuant to Public Contract Code Section 9204, which is summarized here:

A. City's Review of Claim. Within 45 days after receiving a complete Contract Claim, City shall review the claim and provide the Contractor a written statement identifying what portion of the claim is disputed and what portion is undisputed. The City will pay any undisputed portion of the claim within 60 days from the date of the written statement. If the City fails to timely issue a written statement, then the claim shall be deemed rejected in its entirety.

B. Meet and Confer Conference. If the Contractor disputes the City's written statement or if the Contract Claim is deemed rejected, the Contractor may demand and the parties will conduct an informal conference to meet and confer regarding settlement in accordance with Section 9204, subsection (d)(2). Within 10 business days following the conclusion of the meet and confer conference, the City shall provide Contractor a written statement identifying the portion (if any) of the claim remaining in dispute and any undisputed portion will be paid by the City within 60 days after this written statement.

C. Non-Binding Mediation. Any remaining disputed portion of the claim shall be submitted to nonbinding mediation in accordance with Section 9204, subsection (d)(2).

D. Interest. Any amount not paid in a timely manner as required by this article shall bear interest at a rate of 7 percent per annum until paid.

The foregoing is a summary of section 9204. In the event of any conflict between the summary and section 9204, the statute will govern.

11.1.5.2 Lawsuit and Reference. If mediation is unsuccessful and all or parts of the Contract Claim remain in dispute, then the Contractor may pursue a lawsuit (with judicial reference) in accordance with the procedures set forth at Articles 11.1.4.4 through 11.1.4.5. Any lawsuit under this Article 11.1.5 will be subject to judicial reference in the same manner as under Article 11.1.4.

11.1.6 Contract Work Pending Claim Resolution. Unless otherwise directed in writing by the Construction Manager, pending resolution of a claim under this article, the Contractor shall continue to diligently prosecute the Work in accordance with the Contract Documents and the instructions of the Construction Manager.

11.1.7 Records of Disputed Work. In proceeding with a disputed portion of the Work, the Contractor shall keep accurate daily records of all costs, including a summary of the hours and classification of equipment and labor utilized on the disputed work, as well as a summary of any materials or any specialized services that are used. Such information shall be submitted to the Construction Manager on a daily basis, receipt of which shall not be construed as an authorization for or acceptance of the disputed work. Failure to comply with this paragraph shall constitute a waiver of the Contractor's claim for additional compensation or a time extension as to that day.

11.1.8 Submission of Claim Costs. Within thirty (30) days after incurring the last cost of work for which the Contractor contends it is due additional compensation is incurred, but if costs are incurred over a span of more than thirty (30) days, then within fifteen (15) days after the thirtieth day and every month thereafter, the Contractor shall submit to the Construction Manager, as best the Contractor is able, its costs incurred for the claimed matter. Claims shall be made in itemized detail, and should the Construction Manager be dissatisfied with the format or detail of presentation, upon request for more or different information, the Contractor will promptly comply, to the satisfaction of the Construction Manager. If the additional costs are not fully ascertainable, they shall be estimated with as much accuracy as possible in the circumstances. The Construction Manager shall have the right as provided in Section 01 26 00-3.4, COST PRICING DATA AND ACCESS TO RECORDS, to review the Contractor's records pertaining to a submitted claim. In case the claim is found to be just, it shall be allowed and paid for as provided in Section 01 26 00, CONTRACT MODIFICATION PROCEDURES.

11.1.9 Claim Meetings. From time to time the Contractor may request or the Construction

Manager may call a special meeting to discuss outstanding claims should it deem this a means of possible help in the resolution of the claim. The Contractor shall cooperate and attend prepared to discuss its claims, and make available the personnel, subcontractors and suppliers necessary for resolution, of the claim. In addition, the Contractor shall timely provide all documents relevant to the claim which may reasonably be requested by the Construction Manager.

11.1.10 Tort Claims. The provisions of this Article 11.1 apply only to contract-based claims and they shall not apply to tort claims, and nothing in this Article 11.1 is intended nor shall be construed to change the time periods for filing tort claims or actions specified by Government Code title 1, division 3.6, part 3, chapters 1 (commencing with section 900) and 2 (commencing with section 910).

ARTICLE 12 - PAYMENT AND COMPLETION

12.1 Guaranteed Maximum Price (GMP). The City shall pay for Contractor's performance under this Agreement the Cost of the Work and Fee (as defined in Exhibit C, GUARANTEED MAXIMUM PRICE, COST OF WORK AND FEE, hereto), provided, however, that the sum of the Cost of the Work and Fee shall not exceed the GMP, as adjusted by Change Order and/or Field Order in accordance with the Contract Documents.

12.2 Not Used.

12.3 Applications for Payment. Within ten (10) business days following execution of this Agreement, the City and Contractor shall meet to discuss the format, cost breakdown and level of detail required in each Contractor Payment Application. The cost breakdown shall be generally in the same format as typical CSI Document Divisions and Subdivisions, with major items of work listed individually. The cost breakdown shall be by structure, civil, landscaping, or other logical divisions of work. The cost breakdown for architectural, structural, mechanical, and electrical work shall include separate items for identifiable portions of the structures. The cost breakdown shall include separate items for all testing and startup work required. The cost breakdown shall also have separate items for all mobilization costs, direct job overhead costs, bonds, builder's risk insurance, supervision, subcontractors, special services and major suppliers.

The Contractor's cost breakdown and accounting system to produce the Contractor's Application for Payment must provide the City the means to efficiently substantiate the Cost of the Work completed each month and to date for the timely processing for payment to the Contractor.

Contractor shall deliver to City not more than once each month an Application for Payment covering the Cost of Work and Fee applicable to the Work performed during the immediately preceding month. With each Application for Payment Contractor shall submit a line item detailed billing to demonstrate costs incurred on account of Cost of the Work during such month.

Each progress payment request and the final payment request shall be deemed "proper" only if it is submitted on the form approved by the City, with all of the requested information completely and accurately provided by the Contractor and such completed progress payment request form or final payment request form is accompanied by: (i) certified payrolls of the Contractor and all subcontractors, of any tier, for laborers performing any portion of the Work for which a progress payment or final payment is requested; (ii) duly completed and executed Conditional Waiver and Release Upon Progress Payment or Final Payment forms in accordance with California Civil Code §§ 8132 and 8136 for all subcontractors of any tier, and material suppliers covering the progress payment or final payment requested; (iii) duly completed and executed Unconditional Waiver and Release Upon Progress Payment forms in accordance with California Civil Code §§ 8134 and 8138 for all subcontractors of any tier, and material suppliers covering the progress payment received by the Contractor under the prior progress payment request.

City may reject requests for payment, or portions thereof, for Work, or portions thereof, not performed or completed.

City may request additional detail or breakdown of costs to meet Funding Agency reimbursement requirements.

12.4 Amount of Progress Payments. City shall pay Contractor the actual Cost of the Work and Fee through the period covered by the Application for Payment, less Retention as set forth in Article 12.5, EFFECT OF PAYMENT below. City may additionally withhold from progress payments such amounts pursuant to stop notice claims as required by law and pursuant to Article 12.9, WITHHOLDING OF PAYMENTS.

12.5 Effect of Payment. Payment will be made by City based on the Construction Manager's observations at the Site and the data comprising the progress payment request. Payment will not be a representation that the City has:

A. Made exhaustive or continuous on-site inspections to check the quality or quantity of Work;

B. Reviewed construction means, methods, techniques, sequences or procedures;

C. Reviewed copies of requisitions received from subcontractors and material suppliers and other data requested by City to substantiate Contractor's right to payment;

D. Made examination to ascertain how or for what purpose Contractor has used money previously paid on account of the Contract Sum; or

E. Accepted all or part of the Work.

12.6 Retention; Escrow Agreement; Final Payment. Five percent (5%) Retention shall be withheld from each progress payment until the expiration of 35 days following City's filing of the Notice of Completion for the Project or as required in California Public Contract Code Section 7107, whichever is earlier; provided, however, City shall continue to retain such amount as required by law and City's right to withhold in accordance with Article 12.9, WITHHOLDING OF PAYMENT, herein.

For any retention of amount earned by the Contractor as provided for in this article, the Contractor may substitute securities as provided in Section 22300 of the Public Contract Code, as amended, which states in part as follows:

> "Provisions shall be included in any invitation for bid and in any contract documents to permit the substitution of securities for any moneys withheld by a public agency to ensure performance under a contract, provided that substitution of securities provisions shall not be required where federal regulations or policies, or both, do not allow the substitution of securities. At the request and expense of the Contractor, securities equivalent to the amount withheld shall be deposited with the public agency, or with a state or federally chartered bank as the escrow agent, who shall then pay those monies to the Contractor. Upon satisfactory completion of the contract, the securities shall be returned to the Contractor."
>
> "Alternatively, the contractor may request and the City shall make payment of retentions earned directly to the escrow agent at the expense of the Contractor. At the expense of the contractor, the contractor may direct the investment of the payments into securities and the contractor shall receive the interest earned on the investments upon the same terms provided for in this Article for securities deposited by the Contractor. Upon satisfactory completion of the contract, the Contractor shall receive from the escrow agent all securities, interest and payments received by the escrow agent from the City, pursuant to the terms of this Article. The Contractor shall pay to each subcontractor, not later than 20 days of receipt of the payment, the respective amount of interest earned, net of costs attributed to retention withheld from each subcontractor, on the amount of retention withheld to insure

the performance of the Contractor."

"The Contractor shall be the beneficial City of any securities substituted for money withheld and shall receive any interest thereon."

Securities eligible for investment under Section 22300 shall be limited to those listed in Section 16430 of the Government Code and to 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.

The escrow agreement used hereunder shall be null, void, and unenforceable unless it is substantially similar to the form in Exhibit J, ESCROW AGREEMENT FOR SECURITY DEPOSITS IN LIEU OF RETENTION. Release of Retention monies shall constitute the Final Payment.

12.7 Not Used.

12.8 **Title to Construction Work.** Title to all Work covered by an Application for Payment shall pass to City no later than the time of payment. Upon submittal of an Application for Payment, all Work for which Applications for Payment have been previously issued and payments received from City shall, to the best of Contractor's knowledge, information and belief, be free and clear of liens, claims, security interests or encumbrances in favor of Contractor, subcontractors, material suppliers, or other persons or entities, except work, labor, materials or services that are the subject of a Claim.

No material, supplies, or equipment for the Work under this Agreement 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 the Contractor, to the City free from any third party claims, liens, security interests, or charges.

Nothing contained in this article, 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.

12.9 **Withholding of Payment.** City may withhold payment on account of an Application for Payment if required or authorized by any Applicable Law, or to the extent necessary to protect City from loss because of the following:

A. Defective Work not remedied, irrespective of when any such work be found to be defective.

B. Non adherence to Funding Agency requirements including, but not limited to, the Iron and Steel Requirements.

C. Damage to another contractor or third party, or to property that Contractor has failed to resolve within 30 days after receiving written notice of the damage.

D. A reasonable amount for failure of the Contractor to maintain Record Drawings current as required in Section 01 33 23, AS-BUILT DRAWINGS.

E. Cost of insurance arranged by the City due to cancellation or reduction of the Contractor's insurance.

F. Failure to submit, revise, resubmit or otherwise conform to the requirements herein for preparing and maintaining a construction schedule as required in Section 01 32 16, PROGRESS SCHEDULES AND REPORTS.

G. Failure to provide the required payment documentation, including required waivers, releases, and Funding Agency documentation.

H. Payments due the City from the Contractor as provided for in the Contract Documents.

I. Failure to comply with environmental and other regulatory requirements that Contractor has failed to resolve within 30 days after receiving written notice of the noncompliance.

J. Failure to comply with equipment storage requirements and/or equipment installation guidelines.

K. Provisions of law that enable or require the City to withhold such payments in whole or in part, including, but not limited to California Public Contract.

L. Stop Payment Notice claims filed by Contractor's subcontractors of any tier, or its material suppliers.

M. Contractor's failure to timely complete its Work, including Punch List items in the time required and issuance of operations and maintenance (O&M) manuals.

N. Any other breach of a material provision of this Agreement if Contractor has failed to respond to the City's written Notice of the alleged breach within 10 days.

When the above reasons for withheld amounts are removed, payment will be made to the Contractor for amount withheld because of them.

12.10 Failure of Payment. In accordance with Public Contract Code § 20104.50, City shall pay Contractor interest on any progress payment, which is made by City more than thirty (30) days after City receives an undisputed and properly submitted written payment request. Any written request for a progress payment which City determines not to be a proper payment request suitable for payment shall be returned to the Contractor within seven (7) days after receipt by City, along with a written statement of the reason or reasons why such request is not proper.

12.11 Occupancy by City Prior to Final Completion. The City reserves the right to Beneficial Occupancy without charge by Contractor. In those areas of the Work, which are deemed substantially completed the City may store materials, equipment, and supplies, and may perform partial operation.

12.12 Substantial Completion. When the Contractor considers the entire Work substantially complete, or a portion of the Work substantially complete as defined by the Contract Milestones or as needed for Beneficial Occupancy is complete and ready for its intended use, the Contractor shall certify in writing to the City through the Construction Manager that the entire Work, or a portion of the Work as defined by the Contract Milestones or needed for Beneficial Occupancy is substantially complete and provide the City with a Certificate of Substantial Completion. If the Construction Manager agrees that an inspection to determine the status of completion is warranted, the City, Construction Manager and Contractor shall make an inspection of the Work to determine the status of completion. Substantial Completion shall be defined as completion of Work in accordance with the Contract Documents, including Extra Work, except for minor punch list items, and suitable for the City's Beneficial Occupancy. Issuance of Substantial Completion requires submittal of associate as-built drawings, operations and maintenance manuals, asset management data and other related submittals for the portion of Work being assessed for Substantial Completion.

If the City does not consider the Work substantially complete, the Construction Manager will notify the Contractor in writing identifying the parts of the Work that the City contends are not substantially complete. If the City considers the Work is substantially complete, the City will accept a corresponding partial Certificate of Substantial Completion. There shall be attached to the Certificate a punch list of items to be

completed or corrected before Final Completion and Final Payment.

Upon verification that the Work is substantially complete the Construction Manager shall prepare a Certificate of Substantial Completion and the Punch List. The Certificate shall establish the date of Substantial Completion and the responsibilities of the City and the Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, warranties as defined by the Contract Documents, and shall fix the time, not to exceed 30 days, within which the Contractor shall finish all items on the Punch List or remaining work or administrative requirements accompanying the Certificate. When the preceding provisions have been approved by both the City and the Contractor, they shall sign the Certificate to acknowledge their written acceptance of the responsibilities assigned to them in such Certificate.

12.13 Final Completion. When all the Work is fully completed, Contractor shall provide City with a Certificate of Final Completion and shall request final inspection in writing. Additionally, Contractor shall provide legally effective releases or waivers satisfactory to City of all stop payment notice and payment bond claim rights in connection with the Work. Within ten (10) calendar days of receipt of such completed request form, City shall make final inspection. If following final inspection City determines that the Work (including all punch list items) has been fully completed and performed in accordance with the Contract Documents, the City will accept the Work as finally complete. Acceptance of the Project for Final Completion requires formal acceptance by the City's Representative. If the City's Representative determines that the Work is not complete after receipt of certification, the Contractor shall be notified in writing of deficiencies. After the deficiencies have been corrected, the procedure for final inspection as set forth above shall again be initiated by Contractor.

12.13.1 Waiver of Claims at Final Payment. Acceptance of final payment by Contractor shall constitute a waiver of all claims by Contractor, except those previously made in writing and identified as unsettled at the time of final payment or those related to final payment or items of Work that are incomplete at the time of Final Completion.

12.14 Warranties and Bonds

12.14.1 The Contractor hereby agrees to make, at its sole expense, all repairs or replacements necessitated by defects in materials or workmanship, supplied under terms of the Contract Documents, and pay for any damage to other works resulting from such defects, which becomes evident within the warranty period. Unless otherwise provided in Contract Documents, the one (1) year warranty period is the shortest duration and such duration may be a longer period of time as may be prescribed by law or by the terms of any applicable special guarantee required by the Contract Documents. The Contractor further assumes responsibility for a similar guarantee for all work and materials provided by subcontractors or manufacturers of packaged equipment components. The Contractor also agrees to indemnify, defend, and hold the City harmless from liability of any kind arising from damage due to said defects.

12.14.2 The Contractor shall execute and submit a warranties for the Work, and any portion of the Work possessed in accordance with Article 6.4, CITY'S RIGHT TO USE AND OCCUPY. The warranties shall be submitted within five (5) days of Substantial Completion.

12.14.3 The Contractor shall, upon the receipt of notice in writing from the City, promptly make all repairs arising out of defective materials, workmanship, or equipment. The City is hereby authorized to make such repairs, and the Contractor and its Surety shall be liable for the cost thereof, if ten (10) days after the City giving of such notice to the Contractor, the Contractor has failed to make or undertake the repairs with due diligence. In case of emergency, where in the opinion of the City delay could cause serious loss or damage, repairs may be made without notice being sent to the Contractor, and the expense in connection therewith shall be charged to the Contractor, and/or its Surety shall be liable for the cost thereof.

12.14.4 Prior to the expiration of the warranty period, the City reserves the right to hold a meeting and require the attendance of the Contractor. The purpose of the meeting is to review warranties, bonds and maintenance requirements and determine required repair or replacement of defective items.

12.14.5 For the purpose of this paragraph, acceptance of the Work or a portion of the Work by the City, shall not extinguish any covenant or agreement on the part of the Contractor to be performed or fulfilled under this Agreement which has not, in fact, been performed or fulfilled at the time of such acceptance. All covenants and agreements shall continue to be binding on the Contractor until they have been fulfilled.

12.14.6 The City and the Contractor agree that warranty on the parts of the Work possessed and used by the City in accordance with Article 6.4, CITY'S RIGHT TO USE OR OCCUPY, shall commence on the date that the City takes possession of such work and so notifies the Contractor in writing. The City and Contractor further agree that such possession, and use of the Work shall not be deemed the Work as receiving Final Acceptance.

12.14.7 If, after installation, the operation or use of the materials or equipment furnished under the Contract Documents proves to be unsatisfactory to the Construction Manager or the City, the City shall have the right to operate and use such materials or equipment until it can, without damage to the City, be taken out of service for correction or replacement. Such period of use of the defective materials or equipment pending correction or replacement shall in no way decrease the warranty period. The warranty period for equipment shall be extended by the number of days from the date the equipment is found by the City to be non-functional or defective to the date the Contractor repairs and makes fully operational the same equipment.

12.14.8 Nothing in the Contract Documents shall be construed to limit, relieve or release the Contractor's, subcontractor's and/or equipment supplier's liability to the City for damages sustained as the result of latent defects in the equipment furnished or work performed. Further, nothing in the Contract Documents shall be deemed to be a waiver by the City of any rights or remedies, or time limits in which to enforce such rights or remedies, that it may have against the Contractor, subcontractors, suppliers of the equipment and Work performed under the Contract Documents.

12.15 Audits and Access to Records. The Contractor must maintain all books, records, documents, and other evidence directly pertinent to the performance of the Work in accordance with generally accepted accounting principles and practices. The Contractor must also maintain all financial information and data used by the Contractor in the preparation or support of any cost submission, including the Contractor's estimate, any Change Order, Dispute, Claim, Pay Application, or other request for equitable adjustment. City and its representatives will have access upon five (5) business days advanced written notice, during normal business hours, to all Contractor's books, summary reports, records, accounts, estimates, documents, detailed financial information, certified payroll records, AIS records and all other information and documentation relevant to the Work for the purposes of inspection, audit, and copying. The Contractor will, at no cost to City, provide reasonable facilities for such access, and inspection purposes. The City will arrange for and pay all costs of copying.

The Contractor agrees to include and make the requirements of this article, applicable to all subcontractors listed in Exhibit E, DESIGNATION OF SUBCONTRACTORS.

Audits conducted pursuant to this article, will be in accordance with general accepted auditing standards and established procedures and guidelines of the reviewing or audit agency.

The Contractor agrees to provide requested information and reports resulting from access to records to City, subject to execution of an appropriate confidentiality order if requested.

Records must be maintained and made available during the performance of the Work and for four (4) years after Final Payment, and until final settlement of all Disputes or Claims, whichever occurs later.

The right of access provisions of this article, applies to all financial records pertaining to the Agreement:

1. To the extent the records pertain directly to Agreement performance;

2. To the extent required for verification of the costs incurred where such costs are the basis for billings pursuant to the Agreement including Change Orders;

3. To the extent there is credible evidence that Contractor has violated the federal False Claims Act and the California False Claims Act or that fraud, gross abuse, or corrupt practices may be involved; and

4. If the Agreement is terminated for default or convenience.

Access to records is not limited to the required retention periods. City's Authorized Representative or designee must be granted access to records at any reasonable time for as long as the records are required to be maintained.

In the event that City's audit determines that Contractor has billed for any costs that are ineligible for reimbursement or for any reason should not have been paid, or the Contractor's fee has been improperly applied or calculated, Contractor shall promptly refund all improper payments following receipt of City's written notice and explanation of the alleged overpayments or improper fee and shall be responsible to pay City for the City's reasonable costs to perform the audit unless the Contractor establishes that the overpayment or improper fee was the result of an unintentional, inadvertent clerical error.

12.16 Cash Flow Projection. A cash flow projection covering the entire construction period shall be prepared by the Contractor and submitted to the Construction Manager prior to commencement of the Work. Additional cash flow projections shall be submitted upon request by the Construction Manager if there is a material change in the scope of the Work or a material change in the duration of the Work or if the Construction Manager reasonably believes that the Contractor's financial status has materially changed.

12.17 False Claims Act. All claims for payment from the Contractor to the City shall in all respects be a true and correct representation of services rendered and/or materials delivered to the City pursuant to the California False Claims Act. The penalties under the Federal False Claims Act and the State of California False Claims Act are non-exclusive, and are in addition to any other remedies which the City may have either under contract or law.

12.18 Shared Savings. The Contractor shall be compensated for actual work completed based on the Cost of the Work and Fee up to the amount of the GMP. If the Contractor's actual total Cost of the Work and Fee is less than the GMP upon Final Completion, the Contractor shall receive forty percent (40%) of the GMP Savings. "GMP Savings" shall mean the positive difference, if any, when the Actual Total Cost of the Work is subtracted from the GMP; provided, however, that unused Allowance monies, if any, shall not be subject to shared savings.

ARTICLE 13 - INSURANCE AND INDEMNIFICATION

13.1 Insurance

Contractor shall maintain, at its own expense, all the insurance required by this article and submit coverage verification for approval by the City prior to the City's execution of this Agreement, which shall be included in Exhibit L, CONTRACTOR INSURANCE CERTIFICATES of this Agreement.

This Agreement will not be executed by the City, and the Contractor shall not commence Work, until such insurance has been approved by the City. Such insurance shall remain in full force and effect at all times during the prosecution of the Work and until the Final Completion thereof. In addition, the commercial general liability insurance shall be maintained for a minimum of three (3) years after Final Completion of the Work. The City's issuance of the Notice to Proceed does not relieve the Contractor of the duty to obtain such insurance as required herein.

The Contractor shall not allow any subcontractor to commence work on its subcontract until all similar insurance required of the subcontractor has been obtained and verified by the Contractor and submitted to the Construction Manager for the City's review and records. Subcontractors shall furnish original certificates and required endorsements as verification of insurance coverage. At a minimum amount of coverage, the insurance liability limits specified in Article 13.1.1.a(2) herein, shall apply for all subcontractors who execute a subcontract with the Contractor for portions of the Work.

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A-:VII or equivalent and that are admitted to do business and in good standing in California, unless otherwise approved by the City. In the case of workers' compensation and employer's liability insurance, coverage provided by the California State Compensation Insurance Fund is acceptable.

Each insurance policy required by this Agreement shall be endorsed to state that coverage shall not be suspended, voided, canceled by either party, or reduced in coverage or in limits except after thirty (30) days prior written notice has been given to the City by the insurance carrier. Should the insurance carrier refuse to provide this notice, the Contractor shall be obligated to provide to the City thirty (30) days prior written notice of any insurance coverage being suspended, voided, reduced or canceled by either party, or any reduction in coverage or in limits.

The Contractor shall include all costs for insurance in its GMP.

Nothing contained in these insurance requirements is to be construed as limiting the extent of the Contractor's responsibility for payment of damages resulting from its operations under this Agreement. For any claims related to Contractor's Work, as opposed to work City has contracted to parties other than Contractor, the Contractor's insurance coverage shall be primary insurance as respects the City, Construction Manager, Engineer, Funding Agencies and their directors, officers, elected officials, employees, agents, and volunteers. For any claims related to Contractor's Work, any insurance or self-insurance maintained by the City, Construction Manager, Engineer, Funding Agencies and their directors, elected officials, officers, officials, employees, agents, consultants or volunteers shall be in excess of the Contractor's insurance and shall not contribute with it.

Any failure of the Contractor to comply with reporting or other provisions of the policies including breaches of warranties shall not affect coverage provided to the City, Construction Manager, Engineer, Funding Agencies and their directors, elected officials, officers, officials, employees, agents, consultants or volunteers.

The Contractor shall take out, pay for, and maintain throughout the duration of this Agreement and for such additional periods as more specifically required herein the following insurance against claims for injuries to persons or damages to property which may be caused by the performance of the Work hereunder by the

Contractor, the Contractor's agents, representatives, employees or subcontractors, or from operations under this Agreement.

13.1.1 Commercial General Liability and Automobile Liability Insurance – This insurance shall protect the Contractor from claims for bodily injury, personal injury and property damage which may be caused by the performance of the Work hereunder by the Contractor, the Contractor's agents, representatives, employees or subcontractors, or from operations under this Agreement. The commercial general liability insurance shall be maintained for three (3) years after Final Completion of the Work and shall provide coverage on an occurrence basis.

A. Additional Insureds – The commercial general liability and automobile policies of insurance shall include as additional insureds or be endorsed to contain the following provisions: the City, Construction Manager, Engineer, Funding Agencies and their directors, elected officials, officers, officials, employees, agents, consultants and volunteers are to be covered as additional insureds as respects: liability arising out of activities performed by or on behalf of the Contractor; products and completed operations of the Contractor; premises owned, occupied or used by the Contractor and or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitation on the scope of protection afforded to the City, Construction Manager, Engineer, Funding Agency and their directors, elected officials, officers, officials, employees, agents or volunteers and coverage provided to such additional insured. This policy shall provide coverage to each of the said additional insureds with respect to said work. Said policy shall provide primary coverage to the full limit of liability stated in the declarations.

B. Amount of Coverage (General Contractor) – The bodily injury, personal injury and property damage liability of the Commercial General Liability insurance shall provide coverage in the following minimum limits of liability: $5,000,000 on account of any one occurrence for bodily injury and property damage, $5,000,000 personal and advertising injury limit with an annual general aggregate limit of not less than $10,000,000, and $5,000,000 products and completed operations aggregate, combined single limit, with excess coverage of $10,000,000 per occurrence and in the aggregate. The Automobile Liability insurance policy shall provide minimum limits of $5,000,000 per accident as a combined single limit arising out of the ownership, maintenance, or use of any owned or non-owned vehicles, with excess coverage of $10,000,000 per occurrence and in the aggregate, including coverage for products and completed operation. Any deductibles or self-insured retentions must be declared to and approved by the City.

C. Minimum Amount of Coverage for all Listed Subcontractors included in Exhibit E - The bodily injury, personal injury and property damage liability of the Commercial General Liability insurance shall provide coverage in the following limits of liability: $5,000,000 on account of any one occurrence for bodily injury and property damage, $5,000,000 personal and advertising injury limit with an annual general aggregate limit of not less than $10,000,000, and $5,000,000 products and completed operations aggregate, combined single limit. The Automobile Liability insurance policy shall provide minimum limits of $5,000,000 per accident as a combined single limit arising out of the ownership, maintenance, or use of any owned or non-owned vehicles. These minimum amounts of insurance coverage do not preclude the Contractor from requiring higher limits or additional insurance coverage as it deems necessary.

1. Minimum Amount of Coverage for Subcontractors NOT included in Exhibit E - The bodily injury, personal injury and property damage liability of the Commercial General Liability insurance shall provide coverage in the following limits of liability: $2,000,000 on account of any one occurrence for bodily injury and property damage, $2,000,000 personal and advertising injury limit with an annual general aggregate limit of not less than $4,000,000, and $2,000,000 products and completed operations aggregate, combined single limit. The Automobile Liability insurance policy shall provide minimum limits of $1,000,000 per accident as a combined single limit arising out of the ownership, maintenance, or use of any owned or non-owned vehicles.

These minimum amounts of insurance coverage do not preclude the Contractor from requiring higher limits or additional insurance coverage as it deems necessary.

D. Subcontractors – The bodily injury and property damage liability insurance shall not be deemed to require the Contractor to have its subcontractors named as additional insureds in the Contractor's policy, but the policy shall protect the Contractor from contingent liability which may arise from operations of its subcontractors.

E. Included Coverage – The above commercial general liability insurance shall also include the following coverages:

- Premises – Operations
- Independent Contractors
- Products - Completed Operations
- Personal Injury - False Arrest, Libel, Wrongful Eviction, etc.
- Advertising Injury
- Broad Form Property Damage - Including, Completed Operations
- Separation of Insureds/Cross-Liability Provision
- Duty to Defend all Insureds
- Deletion of any Limitation on Coverage for Bodily Injury or Property Damage Arising out of Subsidence or Soil or Earth Movement
- Separate Aggregate – A provision that the annual general aggregate shall apply separately to each project for which Contractor provides services away from premises owned by or rented to Contractor.
- XCU – Explosion, Collapse, Underground Damage
- Blanket Contractual Liability – Provisions or endorsements shall state that the insurance, subject to all of its other terms and conditions, applies to the liability assumed by the Contractor under this Agreement, including, without limitation, insurable liabilities set forth in the indemnity articles of this Agreement.

F. Umbrella Policy – The Contractor may use an umbrella or excess policy to meet the limits requirement of Article 13.1.1.B, and subcontractors may use an umbrella or excess policy to meet the limit of requirements of Article 13.1.1.C. However, any such umbrella/excess policy must be approved by the City and maintain an A.M. Best Rating of no less than A:VII.

13.1.2 Workers' Compensation Insurance – In accordance with the provisions of Article 5, Chapter 1, Part 7, Division 2 (commencing with Section 1860) and Chapter 4, Part 1, Division 4 (commencing with Section 3700) of the Labor Code of the State of California, the Contractor is required to secure the payment of compensation to its employees and for that purpose obtain and keep in effect adequate Workers' Compensation Insurance. In accordance with California Labor Code Section 1861, the Contractor shall sign and include Exhibit K, WORKER'S COMPENSATION INSURANCE CERTIFICATE with this Agreement. If the Contractor, in the sole discretion of the City, satisfies the City of its responsibility and capacity under the applicable Workers' Compensation Laws, if any, to act as self-insurer, the Contractor

may so act, and in such case, the insurance required by this article need not be provided.

The Contractor is advised 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 shall comply with such provisions and have employers' liability limits of $1,000,000 per accident and per employee, and in the aggregate for injury by disease, before commencing the performance of the Work of this Agreement.

Before the Notice to Proceed with the Work under this Agreement is issued, the Contractor shall submit written evidence that the Contractor has obtained for the period of the contract workers' compensation and employer's liability insurance as required for all persons whom it employs or may employ in carrying out the Work under this Agreement. Such evidence of coverage shall be accompanied by an endorsement from the insurer agreeing to waive all rights of subrogation against the City, Construction Manager, Engineer, Funding Agencies and their directors, elected officials, officers, officials, employees, agents and volunteers which might arise by reason of any payment under the policy. This insurance shall be in accordance with the requirements of the most current and applicable State Workers' Compensation Insurance Laws.

13.1.3 Professional Liability Insurance – All submittals required of the Contractor which are to be prepared by a licensed California engineer shall be prepared only by a licensed engineer who is covered by a professional liability insurance policy issued by a California-admitted carrier or a carrier authorized to do business in California with a Best's rating of A-:VII or better, with an limit per claim of at least $2,000,000, and a $4,000,000 in the aggregate for errors and omissions. Such insurance shall be maintained in effect by said engineer at all times while performing Work on the Project and for at least three (3) years after Final Completion of the Project. Contractor shall submit an insurance certificate for such engineer prior to beginning Work for approval by the City.

13.1.4 Builder's Risk Insurance – Contractor shall provide "Special Form" Builder's Risk Insurance on the replacement cost basis as listed below:

A. Amount of Coverage - Equal to the full replacement cost on a completed value basis, without deduction for depreciation and shall also provide coverage for "soft costs" such as but not limited to design and engineering fees and inspection costs caused by an insured peril, up to a maximum total for all soft costs of $750,000. The builder's risk insurance may contain sub-limits not less than the following:
    - Debris removal - $250,000.
    - Pollution Clean-up cost - $25,000.

B. Additional Insureds/Loss Payees - This insurance shall name the City, Engineer, Construction Manager, the Funding Agencies and Contractor as insureds/loss payees, as their interests may appear. Builder's risk insurance policies shall contain the following provisions:

    1. The City, Contractor and subcontractors of every tier shall be named as insureds.
    2. Each insured shall waive all rights of subrogation against each of the other insureds.

C. Included Coverage – The above builder's risk insurance shall include the following coverages:

    1. Including, but not by way of limitation, for all damages of loss to the Work and to appurtenances, to materials and equipment to be incorporated into the Project while the same are in transit, stored on or off the Site, to construction plant and temporary structures.
    2. Such insurance shall cover, but shall not be limited to, the perils of fire, lightning, windstorm, hail, explosion, riot, riot attending a strike, civil commotion, smoke damage, damage by aircraft or vehicles, vandalism and malicious mischief, theft, collapse, and flood.
    3. The policy shall cover the costs of debris removal, including demolition as may be made reasonably necessary by the application of any law, ordinance, or regulation.

4. Start-up & testing, and machinery breakdown including electrical arching which are very important coverages and usually have to be requested.
5. The policy shall provide the City the right to occupy the premises without termination of the policy until Final Completion of the Project.

D. Deductibles - Builder's risk insurance may have a deductible clause not to exceed the amounts below. Contractor shall be responsible for paying any and all deductible costs.

E. All Other Perils - $100,000.

F. Application of Loss Proceeds - In the event of a covered loss, proceeds of builder's risk insurance shall be applied first to reimburse actual costs of demolition, debris removal, reconstruction, and repair or replacement incurred in the discharge of the Contractor's obligations of repair or replacement under this Agreement. Insurance proceeds shall be deposited in a separate account in a local bank satisfactory to the City and shall be withdrawn only with the City's written approval to reimburse such actual costs as the builder's risk carrier has agreed to reimburse. The City shall have no liability for failure of the builder's risk carrier to pay for any particular cost of repairs. In the event of the termination of the Contractor for default, the Contractor shall forfeit all rights to builder's risk insurance proceeds and City may expend such proceeds to complete the Project as if they were unpaid contract monies.

13.1.5 Contractor's Pollution Liability Insurance. The Contractor shall obtain Pollution Liability Insurance. This insurance shall be written in comprehensive form either as a separate policy or as an endorsement to Contractor's general liability coverage and shall cover liability for bodily injury, property damage, and environmental damage resulting from pollution and related cleanup costs incurred, all arising out of any Work to be performed under the Agreement, including liability for and defense of lawsuits and regulatory actions. Coverage shall be provided for both Work performed on Site, as well as during the transport of hazardous materials. Coverage shall apply to sudden as well as gradual pollution conditions, including without limitation conditions resulting from the escape or release of smoke, vapors, fumes, acids, alkalis, toxic chemicals, liquids, or gases, natural gas, waste materials, or other irritants, contaminants, or pollutants, including asbestos. The liability limits shall be not less than:

- Combined Single Limit for each occurrence: $2,000,000.
- General Aggregate: $2,000,000.

If the coverage required is written on a claims-made coverage form:

- The retroactive date must be shown, and this date must be before the award date of the Agreement.
- Insurance must be maintained, and evidence of insurance must be provided for at least five (5) years after final payment.
- If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the Agreement award date, the Contractor must purchase extended reporting period coverage for a minimum of five (5) years after Final Payment.
- A copy of the claims reporting requirements must be submitted to the City for review.

13.1.6 Proof of Coverage – Before execution this Agreement, the Contractor shall furnish the City with certificate(s) evidencing issuance of all insurance mentioned herein, copies of the policy declaration or information page(s) and additional insured endorsements, which shall be included as Exhibit L, CONTRACTOR'S INSURANCE CERTIFICATES. The certificate(s) and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The endorsements are to be on endorsement forms acceptable to the City. The certificate(s), policy declaration or information page(s), and endorsements are to be received and approved by the City before Work commences. Except for the waiver of subrogation rights endorsements, as required herein, no other endorsements are required for workers compensation or excess liability insurance. Such certificates of

insurance shall provide that the insurance policy shall be endorsed to state that coverage shall not be suspended, voided, cancelled by either party, reduced in coverage or limits except after thirty (30) days prior written notice has been given to the City. The Contractor shall also provide certificate(s) evidencing renewals of all insurance required herein prior to the expiration date of any such insurance.

For all insurance policy renewals during the term of this Agreement, Contractor shall send insurance certificates reflecting the policy renewals directly to EBIX via email at roseville@ebix.com, or via fax to (770) 325-5727.

Any deductibles or self-insured retentions must be declared to and approved by the City. At the option of the City, either:

- The insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the City, Construction Manager, Engineer, Funding Agencies and their directors, elected officials, officers, officials, employees, agents and volunteers; or

- The Contractor shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.

In the event of the breach of any provision of this article, or in the event of any notices received which indicates any required insurance coverage will be diminished or canceled, City, at its option, may, notwithstanding any other provisions of this Agreement to the contrary, declare a material breach of this Agreement and suspend all further work pursuant to this Agreement until Contractor has provided evidence that its insurance coverage meets the requirements of the Contract Documents.

13.1.7 Third Party Insurance Requirements - The Work, as contemplated by the Contract Documents, does not specifically require an encroachment permit from other public agencies or utilities. However, in the event the Contractor chooses a means and method of construction that results in Work requiring an encroachment permit from a public utility, or any other local, state, federal or public agency, Contractor shall ensure that the insurance it obtains in accordance therewith complies with all requirements mandated by each permitting agency from whom permits shall be obtained for the Work and any other third parties from whom third party agreements are necessary to perform the Work (collectively, the "Third Party(ies)"). To the extent there is a conflict between the Third Party(ies)'s Insurance Requirements and those set forth by the City herein, the requirement(s) providing the more protective coverage for both the City and the Third Party(ies) shall control and be purchased and maintained by Contractor.

Contractor shall be responsible to determine what insurance requirements exist as a condition precedent to obtaining permit(s) for the Work, if any. Contractor shall be solely responsible for any delay(s) arising from its failure and/or its subcontractors' failure to timely obtain all required insurance.

All required third party insurance shall be submitted to the City at the same time Contractor submits all other contractually required insurance, which is no later than ten (10) days after Notice of Intent to Award, unless otherwise agreed to in writing by the City prior to this deadline.

13.1.8 Insurance During Guarantee Period - For all work the Contractor or its subcontractors perform during the guarantee period, workers compensation and commercial general liability insurance in the amounts and format required herein shall remain in force and be maintained for three (3) years after Final Completion of the Work.

The Contractor shall be responsible for paying any and all deductible costs for claims against its workers compensation and commercial general liability insurance.

13.2 General Indemnification Obligations

A. The Contractor shall indemnify, defend with counsel acceptable to City, and hold harmless to the full extent permitted by law, at the Contractor's expense, the City, and their directors, elected officials, officers, officials, employees, agents, consultants, design engineers, Funding Agencies and each of them (collectively the "Indemnified Parties"), from and against any and all liability, loss, damage, claims, actions, causes of action, expenses and costs (including, without limitation, reasonable City staff attorney fees and outside attorney fees, and costs and fees of litigation) (collectively, "Liability") of every nature to the extent caused by Contractor's negligent performance of the Work under this Agreement or its failure to comply with any of its obligations contained in this Agreement, except that such obligation to defend and indemnify does not apply to the extent such Liability was caused by the active negligence, sole negligence or willful misconduct of the Indemnified Parties. Such indemnification by the Contractor shall include, but not be limited to, the following:

1. Liability or claims resulting directly or indirectly from the negligence or carelessness of the Contractor, its subcontractors, employees, or agents in the performance of the Work, or in guarding or maintaining the same, or from any improper materials, implements, or appliances used in its construction, or by or on account of any act or omission of the Contractor, its employees, or agents;

2. Liability or claims arising directly or indirectly from Contractor's negligent acts that cause bodily injury, occupational sickness or disease, or death of the Contractor's, or supplier's own employees, or agents engaged in the Work resulting in actions brought against the Indemnified Parties;

3. Liability or claims arising directly or indirectly from or based on the violation of any laws or regulations, whether by the Contractor, its subcontractors, employees, or agents;

4. Liability or claims arising directly or indirectly from the negligent or legally unauthorized use or manufacture by the Contractor, its subcontractors, employees, or agents in the performance of this Agreement of any copyrighted or uncopyrighted composition, secret process, patented or unpatented invention, article, or appliance, unless otherwise specified stipulated in this Agreement.

5. Liability or claims arising directly or indirectly from the breach of any warranties, whether express or implied, made to the City or any other parties by the Contractor, its subcontractors, employees, or agents;

6. Liability or claims arising directly or indirectly from the willful misconduct of the Contractor, its subcontractors, employees, or agents;

7. Liability or claims arising directly or indirectly from any breach of the obligations assumed in this Agreement by the Contractor;

8. Liability or claims arising directly or indirectly from, relating to, or resulting from a hazardous condition created by the Contractor, subcontractors, suppliers, or any of their employees or agents due to Contractor's negligence or breach of any obligation in this Agreement;

9. Liability or claims arising directly, or indirectly, or consequentially out of any action, legal or equitable, brought against the Indemnified Parties, their consultants, subconsultants, and the directors, officers, elected officials, employees, agents and volunteers of each or any of them, to the extent caused by the Contractor's negligent or improper use of any premises acquired by permits, rights of way, or easements, the Site, or any land or area contiguous hereto or its performance of the Work thereon;

10. Liability arising directly or indirectly from exposure to hazards in violation of the California Labor Code that may be asserted by any person or entity, including, but not limited to, the Contractor, arising out of or in connection with the negligent activities of the Contractor, its agents, employees or privities pursuant to this Agreement, whether or not there is concurrent negligence on the part of the Indemnified Parties;

11. Liability or claims arising directly or indirectly from the failure of the Contractor to comply with the Section 01 11 80, ENVIRONMENTAL CONDITIONS, Section 01 12 16, WORK SEQUENCE or Section 01 35 43, ENVIRONMENTAL PROCEDURES; and

12. Liability or claims arising out of the Contractor's performance of the Work.

B. The Contractor shall reimburse the Indemnified Parties for all costs and expenses, (including but not limited to reasonable fees and charges of engineers, architects, attorneys, and other consultants and professionals and court costs of appeal) incurred by said Indemnified Parties arising out of or in enforcing the provisions of this article.

C. The indemnification obligation under this Article 13.2 shall not be limited in any way by any limitation on the amount or type of insurance carried by Contractor or by the amount or type of damages, compensation, or benefits payable by or for the Contractor or any subcontractor or other person or organization under workers' compensation acts, disability benefit acts, or other employee benefit acts.

D. Pursuant to California Public Contract Code Section 9201, City shall timely notify Contractor of receipt of any third-party claim relating to this Agreement.

E. The Contractor's obligations pursuant to this provision will survive the expiration or earlier termination of this Agreement.

F. The Contractor hereby agrees at its expense promptly to assume the defense of and to defend, with counsel acceptable to the City, against any indemnified Claim, suit or other proceeding brought thereon, and promptly to pay any and all costs, charges, attorney's fees, and other expenses and any and all judgments that may be incurred against the City, and each elected officials, officers, representatives, agents, consultants, design engineers or employees, or any of them to the extent arising from any negligent act, error, or omission, or from any willful misconduct of the Contractor in the performance of the Contractor's obligations under this Agreement.

G. The only limitations on this provision shall be those imposed by Civil Code section 2782.

13.3 Hazardous Substance Indemnifications Obligations

Neither the Contractor nor its subcontractors or suppliers shall use, generate, manufacture, store or dispose of on, under or about the Site, or transport to, from, along or across the Site, any flammable, explosive radioactive material, toxic substance, hazardous waste, hazardous material, hazardous substance, or the equivalent, as those terms may now or in the future be defined by common practice or by any federal, state or local statute, ordinance or regulation or any governmental body or agency (hereinafter "Hazardous Substance").

A. Without limiting any remedies the City may have, in the event any disposal, release, discharge or spill of a Hazardous Substance or other contamination occurs within the Site at any time during, or as a result of, the Contractor's use of the Site, except such spills or contamination to the extent directly caused by the sole negligence or willful misconduct of the City, its contractors, officers, representatives, agents, consultants, design engineers or employees, the Contractor shall immediately notify City and take all action to mitigate the effects of such disposal, release,

discharge, spill or contamination. The Contractor shall at the Contractor's own expense, unless otherwise directed by the City, remediate such disposal, release, discharge of spill or contamination in compliance with all applicable laws, rules and regulations. The City shall have the option to perform the remediation itself or through any contractor if the Contractor fails to do so. The Contractor shall cooperate with the City to complete the remediation and shall reimburse the City for all costs and expenses incurred in connection with the remediation.

B. In the event that the Contractor observes any material that the Contractor believes or has reason to believe may be a Hazardous Substance or encounters any unknown physical condition of any unusual nature within the Site, other than disposals, releases, discharges, spills or contamination covered in paragraph A, above, the Contractor shall, without disturbing the condition, immediately cease all use of the Site and notify the City. The City shall investigate the condition and take any clean-up or other remedial action City deems necessary in its sole discretion.

C. In the event the City or its contractor elects to perform remediation work, the Contractor shall upon notice from the City, cease use of the Site as directed in the notice. The City will notify the Contractor when the condition has been resolved, at which time, but not before, the Contractor may resume its use of the Site.

D. The Contractor agrees to assume liability for and to defend and hold harmless the Indemnified Parties from and against all injuries or death to any person and damage to any property, and all related expense, including without limitation attorneys' fees, investigators' fees, administrative charges, litigation expenses and any judgments, fines, penalties or other charges assessed against Indemnified Parties, resulting from the Contractor's failure to comply with this article and any laws, rules or regulations concerning the subject matter hereof. The provisions of this article shall survive the expiration and termination of this Agreement.

The obligations and liabilities arising under the Article 13.3, HAZARDOUS SUBSTANCE INDEMNIFICATIONS OBLIGATIONS, shall be in addition to and independent of those obligations and/or liabilities arising under the other provisions of this Agreement and shall in no way limit, alter, reduce or eliminate the effect of such other provisions.

ARTICLE 14 - MISCELLANEOUS PROVISIONS

14.1 Governing Law. This Agreement and the Contract Documents shall be deemed to have been entered into in the County of Placer, State of California, and governed by California law (excluding choice of law rules).

14.2 Assignment. The Contractor will not assign any rights or delegate duties under this Agreement without the written consent of the City, which consent will not unreasonably be withheld, including, but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents. City has consented to Contractor's use of subcontractors listed in Exhibit E, DESIGNATION OF SUBCONTRACTORS.

14.3 Severability. If any provision of this Agreement is held to be inoperative or unenforceable as applied in any particular case because it conflicts with any other provision hereof or any constitution, statute, ordinance, rule of law or public policy, or for any other reason, such holding shall not have the effect of rendering the provision in question inoperative or unenforceable in any other case, or of rendering any other provision herein contained inoperative or unenforceable to any extent whatever. The invalidity of any one or more phrases, sentences, clauses or articles contained in this Agreement shall not affect the remaining portions of this Agreement or any part hereof, and they shall otherwise remain in full force and effect.

14.4 Contractor Licensing. For the duration of the Agreement, the Contractor shall possess a valid State of California Class A - General Engineering Contractor's License.

14.5 Permits and Licenses. For the duration of the Agreement, the Contractor shall have a local business license for the work contemplated. All subcontractors will be required to secure the appropriate local business license before they commence Work on the Project. The Contractor shall have all licenses, permits, City Business Operations Tax Certificate, qualifications, and approvals of whatsoever nature legally required for Contractor to practice its profession or provide any Work or services under this Agreement. Contractor shall, at its sole cost and expense, keep in effect or obtain at all times during the term of this Agreement any licenses, permits, and approvals that are legally required for Contractor to practice its profession or provide such Work or services.

14.6 Whole Agreement. This Agreement, the Exhibits hereto, and the other Contract Documents, Specifications and Drawings represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral, and no inducements, considerations, promises or other references shall be implied in this Agreement that are not expressly addressed herein.

14.7 Conflict of Interest. Contractor covenants that neither it, nor any officer or principal of its firm, has or shall acquire any interest, directly or indirectly, that would conflict in any manner with the interests of City or that would in any way hinder Contractor's performance of Work under this Agreement. Contractor further covenants that in the performance of this Agreement, no person having any such interest shall be employed by it as an officer, employee, agent or subcontractor, without the written consent of the City. Contractor agrees to avoid conflicts of interest or the appearance of any conflicts of interest with the interests of the City at all times during the performance of this Agreement. If Contractor is or employs a former officer or employee of the City, Contractor and any such employee(s) shall both immediately notify the City's Representative and both shall comply with any City requests pertaining to appearances before the City Council or any City department, board, commission or committee.

14.8 Contractor Not Agent. Except as City may specify in writing, Contractor and Contractor's personnel shall have no authority, express or implied, to act on behalf of City in any capacity whatsoever as an agent. Contractor and Contractor's personnel shall have no authority, express or implied, to bind City to any obligations whatsoever.

14.9 No Waiver. Neither the inspection by City or its agents, nor any order or certificate for payment of money, nor payment for, nor acceptance of the whole or any part of the Work by City, nor any extensions of time, nor any position taken by City or its agents shall operate as a waiver of any provision of this Agreement or of any power herein reserved to City or any right to damages herein provided, nor shall any waiver of any breach of this Agreement be held to be a waiver of any other or subsequent breach.

14.10 Contractor Shall Assume Risks. Until the Final Completion by City of all Work under this Agreement, the Work shall be under Contractor's responsible care and charge. Contractor shall rebuild, repair, restore and make good all injuries, damages, corrections, and repairs occasioned or rendered necessary by accidental causes of any nature except earthquake or flood, to all or any portions of the Work, except as otherwise stipulated and/or as compensated by insurance.

14.11 General Liability of Contractor. Except as otherwise herein expressly stipulated, Contractor shall perform all the Work and furnish all the labor, materials, tools, power and light, and appliances, necessary or proper for performing and completing the Work herein required in the manner within the time herein specified. The mention of any specific duty or liability of Contractor shall not be construed as limitation or restriction of any general liability or duty of Contractor and, any reference to any specific duty or liability shall be construed to be the purpose of explanation.

14.12 Not Used.

14.13 Penalty for Collusion. If, at any time, it is found that the person, firm, or corporation to whom this Agreement has been awarded has, in presenting any proposal, bid or bids, colluded with any other party or parties, then this Agreement shall be null and void, and the Contractor and its sureties shall be liable for loss or damage which the City may suffer thereby.

14.14 Rights and Remedies. The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder shall be in addition to, and not a limitation of, any duties, obligations, rights, and remedies otherwise imposed or available by law.

No action or failure to act by the City, the Engineer, or the Construction Manager shall constitute a waiver of any right or duty afforded any of them under this Agreement, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach thereunder, except as may be specifically agreed in writing.

14.15 Rights of Action. No right of action shall accrue upon or by reason of this Agreement to or for the use or benefit of anyone other than the parties to this Agreement, except where a third party is identified as an express intended beneficiary of the Contractor's obligations owed to City, including, but not limited to, the indemnification and additional insured requirements contained in the Contract Documents. The parties to this Agreement are the Contractor and the City.

14.16 Notices. Except as otherwise specified herein, all notices to be sent pursuant to this Agreement or the other Contract Documents shall be made in writing, and sent to the Parties at their respective addresses specified below or to such other address as a Party may designate by written notice delivered to the other parties in accordance with this article. All such notices shall be sent by:

D. Personal delivery, in which case notice is effective upon delivery;

E. Certified or registered mail, return receipt requested, in which case notice shall be deemed delivered on receipt if delivery is confirmed by a return receipt;

F. Nationally recognized overnight courier, with charges prepaid or charged to the sender's account, in which case notice is effective on delivery if delivery is confirmed by the delivery service; or

G. Facsimile transmission, in which case notice shall be deemed delivered upon transmittal, provided that (a) a duplicate copy of the notice is promptly delivered by first-class or certified mail or by overnight delivery, or (b) a transmission report is generated reflecting the accurate transmission thereof. Any notice given by facsimile shall be considered to have been received on the next business day if it is received after 5:00 p.m. recipient's time or on a non-business day.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this Agreement in duplicate by its City Manager and attested to by its City Clerk under the authority of Resolution No. 19-494, adopted by the Council of the City of Roseville on the 6th day of November, 2019, and CONTRACTOR is duly authorized and has caused this Agreement to be executed.

CONTRACTOR

Under penalty of perjury, I certify that the taxpayer identification number and all other information provided here are correct.

DATE October 10, 2019

BY _____

Anthony M. Mueller

Print Name

Asst. Vice President

Title

BY _____

Ruben Moreno, Jr.

Print Name

Secretary

Title

1000001448

DIR Registration #

77-0004110

Federal ID#

309-6519-8

State ID#

00841298

City of Roseville Business License Number (City will not award Agreement until Business License Number is obtained)

Type of Business Entity *(check one)*:

_____ Individual/Sole Proprietor
_____ Partnership
__x__ Corporation
_____ Limited Liability Company
_____ Other (*please specify:*_____)

If Contractor is an out-of-state corporation, Contractor warrants and represents that it possesses a valid certificate of qualification to transact business in the State of California issued by the California Secretary of State pursuant to Section 2105 of the California Corporations Code.

CITY OF ROSEVILLE
a municipal corporation

DATE: 11/07/19

BY _____
Dominick Casey, City Manager

Original Approved As To Form:

_____
Robert R. Schmitt, City Attorney

Attest:

_____
for Sonia Orozco, City Clerk

Original Approved As To Substance:

_____
Richard D. Plecker, Director of Environmental Utilities

Notices to the Parties shall be given at the following addresses and fax numbers:

City:

City Clerk of City of Roseville
311 Vernon Street
Roseville, CA 95678
Fax Number: 916-786-9175

Contractor:
W. M. Lyles Co.
P.O. Box 4377
Fresno, CA 93744
Fax Number: (559) 487-7949

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EXHIBIT A

CONTRACTOR'S SOPQ DATED APRIL 1, 2019
(excluding the financial statements and appendices)

Pleasant Grove Wastewater Treatment Plant Expansion Project

STATEMENT OF PRE-QUALIFICATION

PLEASANT GROVE WASTEWATER TREATMENT PLANT EXPANSION PROJECT
AND/OR
PLEASANT GROVE WASTEWATER TREATMENT PLANT ENERGY RECOVERY PROJECT
AND/OR
BOTH ABOVE PROJECTS INDEPENDENTLY

CITY OF ROSEVILLE
CALIFORNIA

W. M. LYLES CO.
CONTRACTOR
Since 1945

Progress Through Performance®

Strength Through Diversification, an integral part of the Lyles Construction Group
W. M. Lyles Co. - New England Sheet Metal and Mechanical Co. - American Paving Co.

W. M. LYLES CO.
CONTRACTOR
Since 1945
Progress Through Performance®
California Contractor's License No. 422390

Corporate Office
P.O. Box 4377
Fresno, CA 93744-4377
Telephone (559) 441-1900
Fax (559) 487-7958

www.wmlyles.com
An Equal Opportunity Employer

April 1, 2019

Tracie Mueller, P.E.
City of Roseville Environmental Utilities – Engineering
2005 Hilltop Circle
Roseville, CA 95747

Reference: Pleasant Grove Wastewater Treatment Plant Expansion Project
Pleasant Grove Wastewater Treatment Plant Energy Recovery Project

Dear Ms. Mueller,

W. M. Lyles Co. is pleased to provide the enclosed information in response to your Request for Statement of Pre-Qualification for the above referenced projects.

We are proud to be an integral part of the construction industry since our founding in 1945 and consider the professional relationships we have developed over the years to be stronger than those of our competitors. We currently operate five construction divisions throughout the State of California from Sacramento to Temecula. Our strategic locations provide our customers better service and outstanding centralized construction quality.

W. M. Lyles Co. is a member of Lyles Construction Group (LCG), which is comprised of W. M. Lyles Co., New England Sheet Metal and Mechanical Co., and American Paving Co. LCG is listed in ENR's Top 400 Contractors and Top 200 Environmental Firms and provides contracting services for individual projects up to $200 million. Over the past five years, LCG has averaged over 1 million craft manhours. The companies within LCG have the capacity to self-perform the following types of work: pipelines, earthwork, grading, paving, concrete flatwork, wet and dry utilities, structural concrete, mechanical and civil piping, HVAC, refrigeration, plumbing, and equipment installation.

W. M. Lyles Co. has the financial resources and risk management structure to successfully and responsibly complete major projects. Our bonding limits are $1 billion single project and $2 billion aggregate, and we have ample available bonding capacity to include new projects in our construction portfolio.

Safety is a priority and our experienced safety professionals provide the necessary training and inspection for our management staff and field crews to safely meet the varied demands of our industry. As a result of this commitment to safety we maintain an insurance modification rate of 0.78, which is well below the industry average.

W. M. LYLES CO.
CONTRACTOR
Since 1945
Progress Through Performance®
California Contractor's License No. 422390

Corporate Office
P.O. Box 4377
Fresno, CA 93744-4377
Telephone (559) 441-1900
Fax (559) 487-7958

www.wmlyles.com
An Equal Opportunity Employer

Thank you for considering W. M. Lyles Co. Please do not hesitate to contact me should you have any questions or need additional information.

Sincerely,

Joseph B. Lawrence
Asst. Vice President

W. M. LYLES CO.
CONTRACTOR
Since 1945
Progress Through Performance®

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AND/OR
PLEASANT GROVE WASTEWATER TREATMENT PLANT ENERGY RECOVERY PROJECT
AND/OR
BOTH ABOVE PROJECTS INDEPENDENTLY

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W. M. LYLES CO.
CONTRACTOR
Since 1945
Progress Through Performance®

Tab 1

Addendum Acknowledgement

Request for Statements of Pre-Qualification from Interested General Contractors For
PLEASANT GROVE WASTEWATER TREATMENT PLANT EXPANSION PROJECT AND/OR
PLEASANT GROVE WASTEWATER TREATMENT PLANT ENERGY RECOVERY PROJECT AND/OR
BOTH ABOVE PROJECTS INDEPENDENTLY

IMPORTANT

3/20/19

TO: Proposers

FROM: Tracie Mueller, Senior Engineer, Environmental Utilities Dept.

RE: 08-050 Contractor Statements of Pre-Qualification for the Pleasant Grove Wastewater Treatment Plant Expansion Project and/or Pleasant Grove Wastewater Treatment Plant Energy Recovery Project

***************ADDENDUM ONE ***************

- **Adding Mandatory Pre-SOPQ Meeting Agenda document for download from Public Purchase**
- **Adding Mandatory Pre-SOPQ Meeting Slide Deck for download from Public Purchase**
- **Adding Mandatory Pre-SOPQ Meeting Sign-In List for download from Public Purchase**

Please note the following revisions, which represent one attachment:

1. **REVISIONS TO TABLE OF CONTENTS, PAGE i**

   Revise the list of Appendices as shown below:

   APPENDIX A- PGWWTP EXPANSION PROJECT DESCRIPTION
   APPENDIX B- CONTRACTOR PRE-QUALIFICATION SCORING
   APPENDIX C- PGWWTP EXPANSION SITE PLAN
   APPENDIX D- BONDS AND INSURANCE
   APPENDIX E- PGWWTP ERP DESCRIPTION
   APPENDIX F- PGWWTP ERP SITE PLAN
   APPENDIX G – PROSPECTIVE PROPOSER'S CERTIFICATION

2. **REVISION SECTION 1.3, PAGE 3**

   Revise the text at the top of page 3 as shown below:

choose to submit qualifications for a specific branch /division, the scoring requirements for Part II B-CF of the SOPQ, as well as all other submitted information shall be branch/division specific. Financial statements should still be for the total company and parent company even if a Prospective Proposer submits the scoring requirements specific to a company branch or division.

3. REPLACEMENT PAGES FOR THE SOPQ SUBMITTAL FORM WITH SECTION 3

Replace pages 12, 13, 14, 15, 16 and 20 of the RFPQ with the corresponding attached Addendum 1 pages. The attached pages listed below shall be used in lieu of the original page 12, 23, 14, 15, 16 and 20 and included within the SOPQ Submittal package. Note that these pages have "Addendum 1 page #" included in the footer. The changes within the attached replacement sheets are summarized below:

- Addendum 1 page 12 – Within the first sentence on the top of page 12 for Part I stating "An answer of "No" to any of the Questions 1 through 9…" has been revised to remove question 9.
- Addendum 1 page 13 –
  - Within Part I, question 7 at the top of the page the "Date of finical statement must be 2018." has been revised to "Date of financial statement must be December 2017 or later."
  - Within Part 1, question 9 has been eliminated and replace with the text "NOT USED."
- Addendum 1 page 14 – PART I(A) second sentence from bottom of page stating "Prospective Proposer also certifies that Prospective Proposer self-performed at least 40% of the work and also self-performed all structural concrete on each of the projects listed in Part III, Item 39(A)" has been revise to remove the "and also self-performed all structural concrete".
- Addendum 1 page 15 – PART I(B) second sentence from bottom of page stating "Prospective Proposer also certifies that Prospective Proposer self-performed at least 40% of the work and also self-performed all structural concrete on each of the projects listed in Part III, Item 39(B)" has been revise to remove the "and also self-performed all structural concrete".
- Addendum 1 page 16 – PART I(C) second sentence from bottom of page stating "Prospective Proposer also certifies that Prospective Proposer self-performed at least 40% of the work and also self-performed all structural concrete on each of the projects listed in Part III, Item 39(B)" has been revise to remove the "and also self-performed all structural concrete".
- Addendum 1 page 20 - Part II, B, question 3 bold note that states "NOTE: All Prospective Proposers will be required to submit non-

collusion affidavits" has been revised to require Prospective Proposers to properly execute and submit the certification added as Appendix G within this addendum as Attachment A of the SOPQ Submittal.

4. ADD APPENDIX G, PROSPECTIVE PROPOSER'S CERTIFICATION AS PAGE 86

Add the attached Appendix G cover sheet and Prospective Proposer's Certification form attached as Appendix G to the RFPQ.

5. MANDATORY PRE-SOPQ SUBMITTAL MEETING STATEMENTS AND RESPONSES TO QUESTIONS

General statements made by the City after the City team's presentation, and questions presented at the March 18, 2019 Mandatory Pre-SOPQ Submittal Meeting with City responses are included below:

A. City Statement: A Prospective Proposer shall check all three boxes in the "Declaration of PGWWTP Project(s) SOPQ submission" to be considered for the possibility of being awarded both projects and they must fill out all of the three SOPQ options in the submission packet.

B. City Statement: The timeline for the financial statements will be revised as some contractors will not have their 2018 documents certified in time for the SOPQ Submittal.

C. Question: Has the SRF funding award been received?
Response: Not yet, but the PGWWTP projects moving into construction are not dependent on receiving these funds.

D. Question: What will the California Energy Commission requirements be?
Response: Those requirements are still being developed and will be included in the Request for Bid Proposals.

E. Question: On page 3 it states scoring requirements are for Part II B-F, but is there a D, E and F?
Response: No, this text will be revised via addendum as this was a revision that was not caught and is an error.

F. Question: Is May 13th 2019 a hard date for RFP to be posted?
Response: No, as stated in the RFPQ and presentation it is tentative.

G. Question: Is April 1, 2019 a hard submittal date for the SOPQ Submittal?
Response: Yes, April 1, 2019 by 3:00 PM is still the required SOPQ Submittal due date. The City does not see a reason at this time to extend this deadline.

H. Question: What will be required in the Request for Bid Proposals?
Response: Two envelopes will be required. The first will be the technical project approach which will include things like team description and safety pass/fail exhibits, etc. The second envelope will be for the commercial terms including a Guaranteed Maximum Price (GMP), markups for overhead and profit, proposed cost savings percentages, etc. Envelope 1 will be scored and recorded first and then envelope 2 will be opened and scored.

I. Question: How do we access the Public Purchase website?
Response: www.publicpurchase.com

J. Question: How much will the GMP count in the scoring?
Response: The scoring is still being developed and will be included in the Request for Bid Proposals, but the GMP itself (not including other scoring within the second envelope) will likely not be more than 50%.

K. Question: How complete are the design drawings?
Response: The designs are both at or close to complete and will be provided in the Request for Bid Proposals for Prospective Proposers to review and determine.

L. Does the City use this Design Assist process all the time?
Response: No, but we have used it in the past including most recently for our recent Dry Creek Wastewater Treatment Plant improvement projects that are currently under construction.

Please include a signed copy of the addendum with your proposal.

I acknowledge receipt of Addendum One

Name Joseph B. Lawrence, Asst. Vice President

Signature _____

Company W. M. Lyles Co. Date April 1, 2019

IMPORTANT

3/20/19

TO: Proposers

FROM: Tracie Mueller, Senior Engineer, Environmental Utilities Department

RE: 08-050 Contractor Statements of Pre-Qualification for the Pleasant Grove Wastewater Treatment Plant Expansion Project and/or Pleasant Grove Wastewater Treatment Plant Energy Recovery Project

***************ADDENDUM TWO*************

- **Attached are pages 12, 13, 14, 15, 16 and 20 which were inadvertently left out of Addendum 1**

Please include a signed copy of Addenda One and Two with your proposal.

I acknowledge receipt of Addendum Two

Name Joseph B. Lawrence, Asst. Vice President

Signature _____

Company W. M. Lyles Co. Date April 1, 2019

W. M. LYLES CO.
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Tab 2

Statement of Pre-Qualification with Submittal Form

Request for Statements of Pre-Qualification from Interested General Contractors For
PLEASANT GROVE WASTEWATER TREATMENT PLANT EXPANSION PROJECT AND/OR
PLEASANT GROVE WASTEWATER TREATMENT PLANT ENERGY RECOVERY PROJECT AND/OR
BOTH ABOVE PROJECTS INDEPENDENTLY

SECTION 1

INSTRUCTIONS FOR PREPARATION AND SUBMISSION OF STATEMENT OF PRE-QUALIFICATION (SOPQ) PACKAGES

1.1 DEFINITIONS

For the purpose of this Statement of Pre-qualification (SOPQ) submittal, the following definitions shall apply:

Statement of Pre-qualification ("SOPQ") - The documents requested by the City and the information submitted by the Prospective Proposers that form the Pre-Qualification package for the PGWWTP Expansion and/or the PGWWTP ERP and/or both PGWWTP projects.

Prospective Proposer - Any individual, partnership, corporation, limited liability company, or other combination thereof who submits an SOPQ to the City for consideration of contract award for completing the PGWWTP Expansion and/or the PGWWTP ERP and/or both PGWWTP projects, acting directly or through an authorized representative.

City- The City of Roseville, employees acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.

Pleasant Grove Wastewater Treatment Plant Expansion Project ("PGWWTP Expansion") The project generally consists of construction of four new primary clarifiers with odor control facilities and an electrical building, a solids thickening building, sludge pumping systems, two anaerobic digesters and a digester control building, a ferric chloride dosage and storage facility, a waste gas burner, two boilers, conversion of two waste activated sludge holding tanks to a centrate storage and digested sludge holding tank, a centrate wet well and associated pump system and all other miscellaneous improvements in support of the project, including asset management, start up and testing to provide a complete and operational system in all respects. A more detailed description of the PGWWTP Expansion is included in Appendix A - PGWWTP Expansion Project Description. PGWWTP Expansion Site Plans are included in Appendix C.

Pleasant Grove Wastewater Treatment Plant Energy Recovery Project ("PGWWTP ERP") The completed PGWWTP ERP will provide compressed natural gas (CNG) to be utilized by City vehicles, generate heat and power for the plant, and receive trucked high strength waste materials from local industry. The project will be constructed on undeveloped City-Owned land adjacent to and immediately south of the existing PGWWTP. A new CNG fueling station will be installed to fuel the City's solid waste fleet. The facility includes all the compressors, dispensers, high pressure storage, and fuel management systems required for a fully operational fast-fill station. The CNG vehicle fuel will be derived from biomethane from a new biogas upgrading system. On an as-needed basis, pipeline natural gas may be utilized to supplement CNG demand. The new biogas upgrading system will treat the City's digester gas (from anaerobic digesters constructed as part of the PGWWTP Expansion) to meet CNG engine fuel quality requirements. A new microturbine cogeneration facility will use digester gas or a blend of biogas-upgrading tail gas and natural gas

to produce electricity and heat. A new high strength waste receiving station will allow for offloading of trucked material to be fed to the anaerobic digesters.

A more detailed description of the PGWWTP ERP is included in Appendix E - PGWWTP ERP Project Description. A PGWWTP ERP Site Plan is included in Appendix F.

1.2 DELIVERY OF SUBMITTAL

A total of four (4) bound hard copies of the SOPQ and one electronic (PDF) copy on a USB flash drive shall be submitted no later than **3:00 PM April 1, 2019** to:

City of Roseville
City Clerk Department
311 Vernon Street
Roseville, CA 95678
Re: Pleasant Grove Wastewater Treatment Plant Expansion Project
Pleasant Grove Wastewater Treatment Plant Energy Recovery Project

Attention: Tracie Mueller, P.E., Environmental Utilities- Engineering

SOPQ packages shall be submitted in sealed envelopes marked "Confidential" and shall include the following title on the front of the package, "Contractor SOPQ for the PGWWTP Expansion and/or the PGWWTP ERP and/or both PGWWTP projects".

1.3 PREPARATION OF SUBMITTAL

The bound copies of the SOPQ package shall be assembled in separate binders with a title page, table of contents, and section dividers. The SOPQ package submittal information shall be presented in the same order as in this RFPQ; submitting the whole document beginning with page 1. All pages shall be 3-hole punched and printing shall be arranged so that punching does not obliterate any data. Only one financial statement shall be submitted. A single hard copy of a reviewed or audited company financial statement shall also be provided in a separate sealed envelope with the original SOPQ package submittal.

It is mandatory that all Prospective Proposers who desire to submit a proposal for the PGWWTP Expansion or the PGWWTP ERP or both PGWWTP projects, fully complete the SOPQ questionnaire, provide all materials requested herein, and be approved by the City to be on the final pre-qualified contractors list for each or both PGWWTP projects. Proposals will be rejected from a Prospective Proposer that has failed to comply with these requirements.

The City recognizes that large construction companies (e.g. revenues in excess of $250 million per year) have multiple branches/divisions for geographic and/or type of construction coverages. In such cases, the Prospective Proposer may elect to submit a set of qualifications for a specific company branch or division which shall be clearly identified in a cover letter for the SOPQ package submittal. As such, should a Prospective Proposer

choose to submit qualifications for a specific branch /division, the scoring requirements for Part II B-F of the SOPQ, as well as all other submitted information shall be branch/division specific. Financial statements should still be for the total company and parent company even if a Prospective Proposer submits the scoring requirements specific to a company branch or division.

1.4 WITHDRAWAL OF SUBMITTAL

A SOPQ may be withdrawn by written request to Tracie Mueller, P.E., Environmental Utilities- Engineering, 2005 Hilltop Circle, Roseville, CA 95747 within five business days of submittal.

1.5 LATE SUBMITTAL

Any SOPQ stamped by the City Clerk's office after the scheduled receipt date and time will not be considered and will be returned to the Prospective Proposer unopened.

1.6 INTERPRETATION OF INFORMATION

This RFPQ includes a description of the scope of Pre-Qualification, qualification requirements, and instructions for submitting the SOPQ. Failure to follow these instructions may result in rejection of the Prospective Proposer's SOPQ.

The deadline for questions regarding the RFPQ is per Milestone Table in Notice to General Contractors Section.

No oral representations or interpretations will be made to any proposer as to the meaning of this RFPQ. Direct all inquiries regarding this RFPQ via https://www.publicpurchase.com/.

In the event that it becomes necessary to revise any part of this RFPQ, a written addenda will be issued. Any amendment to this RFPQ is valid only if it is in writing and issued by the Environmental Utilities Department via Public Purchase.

All addenda for this RFPQ will be distributed to Prospective Proposers who have registered with https://www.publicpurchase.com/ and who have downloaded the RFPQ. It is the Prospective Proposer's sole responsibility to monitor this website for possible addenda to this RFPQ. Failure of Prospective Proposer to retrieve addenda from this site shall not relieve the Prospective Proposer of the requirements contained therein. Additionally, failure of the Prospective Proposer to return a signed addendum, with the submittal, will be cause for rejection of the submittal.

1.7 DETERMINATION

Answers to questions contained in the attached questionnaire, information about current bonding capacity, notarized statement from surety, and the most recent reviewed or audited financial statements, with accompanying notes and supplemental information, are required. The City reserves the right to check other sources available. The City's decision will be based on objective evaluation criteria.

The City will determine the Pre-Qualification status of each Prospective Proposer based on the responses to the information requested in Section 3. The City shall be the sole judge as to the adequacy of each Prospective Proposer to perform work on the PGWWTP Expansion or the PGWWTP ERP or both PGWWTP projects, and City's decision shall be final.

The City reserves the right to waive minor irregularities and omissions in the information contained in the SOPQ submitted, and to make all final determinations.

The anticipated schedule for Prospective Proposer Pre-Qualification determination is provided in the Notice to Contractors.

Where a timely and completed application results in a rating below that which is required for Pre-Qualification, an appeal can be made. An appeal is begun by the Prospective Proposer delivering notice to the City Clerk of its appeal of the decision with respect to its Pre-Qualification rating, no later than five business days following notification of not being prequalified. Without a timely appeal, the Prospective Proposer waives any and all rights to challenge the decision of the City, whether by administrative process, judicial process or any other legal process or proceeding.

If the Prospective Proposer gives the required notice of appeal and requests a hearing, an appeals panel hearing shall be conducted. The hearing shall be an informal process conducted by a panel to hear such appeals. At/or prior to the hearing, the Prospective Proposer will be advised of the basis for the City's Pre-Qualification determination. The Prospective Proposer will be given the opportunity to present information and present reasons in opposition to the rating. Within five business days of the conclusion of the hearing, the appeals panel will render its decision.

The list of prequalified contractors will be posted to the City of Roseville's Public Purchase website at: https://www.publicpurchase.com/

Prospective Proposers opposing any other firms on the prequalified list, (based on potential for proposal collusion only), shall deliver written notice to the City within five business days of posting. The City will establish a review panel and conduct a hearing in the same process as identified above for the appeals process. Within five business days of the conclusion of the hearing, the review panel will render its decision.

The City reserves the right to adjust, increase, limit, suspend or rescind the Pre-Qualification rating based on subsequently learned information. Prospective Proposers whose rating decrease enough to disqualify them will be notified, and given an opportunity for a hearing consistent with the hearing procedures described above for appealing a Pre-Qualification rating.

1.8 EXCLUSION OF COST QUOTATIONS

The SOPQ submittal is a request for information, not a cost proposal. Prospective Proposers are advised that a formal or informal cost quotation for either PGWWTP project is not requested by the City and should not be included with the submittal. Any such information furnished will not be considered.

SECTION 2

SCOPE OF PRE-QUALIFICATION

2.1 INTENT

The Pre-Qualification procedure will be used to determine responsible Prospective Proposers for the PGWWTP Expansion, the PGWWTP ERP, and both PGWWTP projects. However, Pre-Qualification is not a conclusive determination of responsiveness and responsibility and a prequalified proposer may be rejected as nonresponsive or non-responsible by the City during the subsequent request for proposal process for each or both PGWWTP projects. In all cases, the Prospective Proposer ultimately awarded the contract shall comply with the requirements of the construction contract documents for each or both respective PGWWTP projects.

2.2 EXPERIENCE REQUIREMENT

The Pre-Qualification procedure involves the review and evaluation of information regarding the proven experience of the Prospective Proposers to construct each or both PGWWTP projects in a manner acceptable to the City. The experience of the Prospective Proposer will be evaluated on the basis of the SOPQ submittal and information gathered by the City from the references (provided by the Prospective Proposer) of related projects. Proven experience is defined as the actual performance of the Prospective Proposer on previous construction projects of a similar nature (see Part III of Section 3 for experience requirements) as corroborated by said references.

The City is not obligated to prequalify or accept a Prospective Proposer with no or un-satisfactory related experience.

2.3 CONFLICT OF INTEREST

The Prospective Proposer shall warrant that no official or employee of the City has an interest, has been employed or retained to solicit or aid in the procuring of the contract for either PGWWTP project contained in this RFPQ, nor that any such person will be employed in the performance of such contract without immediate divulgence of such fact to the City. Prospective Proposers submitting a SOPQ in response to this RFPQ must disclose any actual, apparent, direct, indirect, or potential conflicts of interest that may exist with respect to the Prospective Proposer or the Prospective Proposer's management or employees relative to the services to be provided to the City. Conflict of interest issues may require consultation with legal counsel. If a Prospective Proposer has no conflicts of interest, a statement to that effect must be included in the SOPQ submittal. Violation of this section shall disqualify the Prospective Proposer.

2.4 PROHIBITIONS AGAINST INTEREST IN MORE THAN ONE PROPOSAL ON A SINGLE PROJECT AND PROPOSER COLLUSION

A company, corporation, LLC, or other entity is not permitted to submit more than one proposal on a single project or have a financial interest in more than one proposal on a single project.

If a company, corporation, LLC, or other entity seeking to prequalify is a direct or indirect parent or subsidiary, or otherwise affiliated with another company, corporation or other entity also seeking to prequalify, neither is eligible to prequalify unless they prove to the satisfaction of the City that they satisfy the foregoing requirements by operating separately and independently from each other and that they do not currently, and will not in the future, have any direct interest in the other's proposal or performance of the contract. To so prove, each affiliated company, corporation, LLC, or other entity seeking to prequalify must provide the information required under Part II.B.3-4 and submit such additional documentation as is sufficient to prove to the satisfaction of the City that the foregoing requirements are satisfied. Affiliated companies not providing enough proof will be notified and will be allowed to rescind SOPQ submittal(s) to allow one of the affiliated firms to prequalify.

SECTION 3

SUBMITTAL INFORMATION

3.1 GENERAL

The SOPQ submittal prepared and delivered by a Prospective Proposer shall include as a minimum the information listed herein. Each Prospective Proposer shall review the requirements of this RFPQ Document and provide whatever additional information may be required to allow complete determination of conformance with the evaluation criteria utilized for the basis of determination (Section 4). Incomplete or unclear information may be grounds for rejection of a submittal as nonresponsive.

STATEMENT OF PRE-QUALIFICATION SUBMITTAL FORM	PAGE 9
PART I	PAGE 12
PART II	PAGE 17
PART III	PAGE 30

STATEMENT OF PRE-QUALIFICATION SUBMITTAL FORM

TO: Tracie Mueller, P.E.
City of Roseville Environmental Utilities- Engineering
2005 Hilltop Circle
Roseville, CA 95747

FOR: PLEASANT GROVE WASTEWATER TREATMENT PLANT EXPANSION PROJECT
and/or
PLEASANT GROVE WASTEWATER TREATMENT PLANT ENERGY RECOVERY PROJECT
and/or
BOTH ABOVE PROJECTS INDEPENDENTLY

STATEMENT OF PRE-QUALIFICATION FOR GENERAL CONTRACTORS

THE UNDERSIGNED PROSPECTIVE PROPOSER HEREBY AGREES AND DECLARES THAT:

DETERMINATION OF PRE-QUALIFICATION

Receipt of this submittal by the City does not constitute either a direct or implied guarantee to the Prospective Proposer that Pre-Qualification is or will be granted. The undersigned agrees to the procedures and conditions of the Pre-Qualification requirements described in the RFPQ.

COMPLETENESS AND ACCURACY

All Prospective Proposer statements and information contained in the SOPQ shall be complete and accurate. The submittal contains no false or deliberately misleading information.

DECLARATION OF PGWWTP PROJECT(S) SOPQ SUBMISSION

The undersigned Prospective Proposer is submitting the following SOPQ submission to the City. The Prospective Proposer may submit on Item 1, Item 2, Items 1 & 2, and also Items 1, 2 & 3.

1. SOPQ submission for PGWWTP Expansion by completing Part III, Item 39(A).

   ☒ Yes ☐ No

2. SOPQ submission for PGWWTP ERP by completing Part III, Item 39(B).

   ☒ Yes ☐ No

3. SOPQ submission for both above PGWWTP projects independently by completing Part III, Item 39(C).

☒ Yes ☐ No

Important Note to Prospective Proposer:

The City will evaluate received SOPQs for the PGWWTP Expansion and the PGWWTP ERP independently. After such independent evaluations, if (during the Request for Proposals and Award Phase), the City determines that the Proposals received from the same Contractor obtained the highest score for each project, the City can only award both projects to this Contractor if the Contractor marks "Yes" to item 3 above and was pre-qualified by the City for both projects. If a Prospective Proposer marks "No" to item 3 above, and submits a Proposal for each of the PGWWTP projects, the City can only award one of the two projects to this Contractor, even if the Contractor received the highest score on each project.

CLOSING STATEMENT

A. The undersigned is a legally authorized representative of the contractor.

Legal name of Prospective Proposer: W. M. Lyles Co.
(as it appears on license)

Contact: Joseph B. Lawrence

Phone: (559) 441-1900

Business address: 1210 W. Olive Avenue
Fresno, CA 93728

Fax: (559) 487-7949

E-Mail Address jlawrence@wmlylesco.com

Proposer's Valid California Contractor's License No. 422390

Classification(s) A, B

B. Addenda:

The undersigned acknowledges receipt of the following Addenda Nos.: 1, 2

Failure to acknowledge Addenda will result in the rejection of the Prospective Proposer's SOPQ submittal.

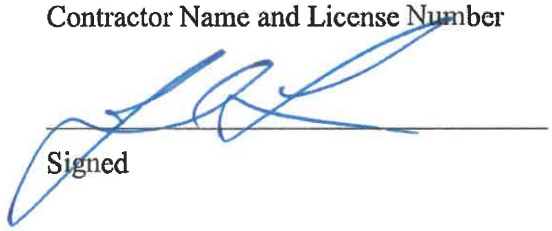
The submission of a SOPQ package shall constitute an acknowledgment upon which the City may rely that the Prospective Proposer has thoroughly examined and is familiar with the RFPQ and that the Prospective Proposer has waived any objections or contentions regarding the SOPQ document and/or the Pre-Qualification requirements set by the City to determine if a Prospective Proposer is approved to submit a proposal for either or both the PGWWTP projects.

By my signature below, I acknowledge receipt of this document and agree to be bound by its terms and agree to submit it as part of the SOPQ package submittal to the City.

I, the undersigned, certify and declare that I have read all of the answers to this SOPQ questionnaire and I know their contents. The matters stated in the questionnaire answers are true of my own knowledge and belief and I declare under penalty of perjury under the laws of the State of California, that the foregoing is correct.

W. M. Lyles Co., License No. 422390

Contractor Name and License Number



Signed

Joseph B. Lawrence

Printed Name

Asst. Vice President

Title

April 1, 2019

Date

****END OF FORM****

W. M. LYLES CO.
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Tab 3

Part I
Essential Requirements for Pre-Qualification

Request for Statements of Pre-Qualification from Interested General Contractors For
PLEASANT GROVE WASTEWATER TREATMENT PLANT EXPANSION PROJECT AND/OR
PLEASANT GROVE WASTEWATER TREATMENT PLANT ENERGY RECOVERY PROJECT AND/OR
BOTH ABOVE PROJECTS INDEPENDENTLY

PART I. ESSENTIAL REQUIREMENTS FOR PRE-QUALIFICATION FOR PGWWTP EXPANSION and PGWWTP ERP and both PGWWTP projects

An answer of "No" to any of the Questions 1 through 8 will be rated a "Fail" and the Prospective Proposer will be immediately disqualified.

An answer of "Yes" to any of the Questions 10 through 13 will be rated a "Fail" and the Prospective Proposer will be immediately disqualified. If the answer to question 12 is "yes," and if debarment would be the sole reason for denial of Pre-Qualification, any Pre-Qualification issued will exclude the debarment period.

1. Prospective Proposer possesses a valid and current California Contractor's license (Class A, General Engineering Contractor) for the project for which it intends to submit a Proposal.

   [x] Yes [ ] No

2. Prospective Proposer is registered with the California Department of Industrial Relations pursuant to California Labor Code Section 1725.5.

   [x] Yes [ ] No

3. Prospective Proposer has not had a surety finish the work on any contract in the past five years:

   [x] Yes [ ] No

4. Prospective Proposer will comply with and provide all insurance as defined in **Appendix D, Bonds and Insurance.** See tab 8

   [x] Yes [ ] No

   Note: Prospective Proposer shall provide as part of its SOPQ package submittal a notarized statement, from the insurance carrier(s) or insurance broker that the Prospective Proposer will utilize on the PGWWTP project(s), certifying that the specified insurance requirements will be met. Please note that these are preliminary insurance requirements and are subject to change. The contractor will be required to provide insurance as provided for in the PGWWTP projects contract documents.

5. Prospective Proposer has current workers' compensation insurance policy as required by the Labor Code or is legally self-insured pursuant to Labor Code section 3700 et. seq.

   [x] Yes [ ] No

   [ ] Prospective Proposer is exempt from this requirement because it has no employees.

6. Prospective Proposer's Three-Year Average Experience Modification Rate (EMR) is less than or equal to 1.25 (125%) and Prospective Proposer has furnished a letter from its insurance carrier for verification of its three-year average EMR. See Part II- Item 32.

   [x] Yes [ ] No See tab 9

7. Has the Prospective Proposer attached the latest complete copy of a **reviewed** or **audited** financial statement with all accompanying notes and supplemental information? Date of financial statement must be December 2017 or later. If Prospective Proposer is a wholly owned subsidiary of another company, Prospective Proposer must also furnish a reviewed or audited financial statement of the parent company with accompanying notes and supplemental information.

See separate sealed envelope

☒ Yes ☐ No

NOTE: A financial statement that is not either reviewed or audited is not acceptable and reason for disqualification. A letter verifying availability of a line of credit may also be attached; however, it will be considered as supplemental information only, and is not a substitute for the required financial statement.

8. Has the Prospective Proposer attached a notarized statement from an admitted surety insurer (approved by the California Department of Insurance) and authorized to issue bonds in the State of California, which states: (a) that your current bonding capacity is sufficient for the project for which you seek Pre-Qualification, and (b) your current available bonding capacity?

See tab 10

☒ Yes ☐ No

NOTE: Notarized statement must be from the surety company, not an agent or broker.

9. **NOT USED.**

10. Has the Prospective Proposer's contractor's license been revoked at any time in the last five years?

☐ Yes ☒ No

11. Has a surety firm completed a contract on the Prospective Proposer's behalf, or paid for completion because the Prospective Proposer's firm was default terminated by the project owner within the last five years?

☐ Yes ☒ No

12. At the time of submitting this SOPQ, is your firm ineligible to bid on or be awarded a public works contract, or perform as a subcontractor on a public works contract, pursuant to either Labor Code section 1777.1 or Labor Code section 1777.7

☐ Yes ☒ No

If the answer is "Yes," state the beginning and ending dates of the period of debarment:

_____

13. At any time during the last five years, has your firm or any of its owners or officers been convicted of a crime involving the awarding of a contract of a government construction project, or the bidding or performance of a government contract?

☐ Yes ☒ No

PART I(A). ESSENTIAL REQUIREMENTS FOR PRE-QUALIFICATION FOR PGWWTP EXPANSION

Important Note to Contractor: Only answer this question and complete Part III, Item 39(A) if you are submitting an SOPQ for the PGWWTP Expansion.

An answer of "No" to any of the Question 1 will be rated a "Fail" and the Prospective Proposer will be immediately disqualified.

1. In accordance with Part III, Item 39(A), Prospective Proposer has listed no more than **six** projects completed since **January 1, 2009** with a combined **$150 million** in construction value on the following types of projects:

   a. Industrial and/or municipal water treatment plants where the structural concrete, excavation, backfill, mechanical and electrical were part of the contractor's contract; or

   b. Industrial and/or municipal wastewater treatment plants where the structural concrete, excavation, backfill, mechanical and electrical were part of the contractor's contract.

   The list of projects may include projects currently under construction, but only the total amount paid by the owner(s) as of **November 1, 2018** on uncompleted project(s) can be included in this summation of construction value. The Prospective Proposer is allowed to list no more than **six** projects of the types listed above, that combined, will add up to at least **$150 million** in completed value of work. In addition, one of the six projects must have a construction value of at least **$45 million.**

   Any projects listed in Part III, Item 39(A), which are not as defined above will not be considered by the City in meeting this pre-requisite experience requirement. For example, pipeline projects and pump station projects are not considered a treatment plant project and would not be eligible.

   Prospective Proposer also certifies that Prospective Proposer self-performed at least 40% of the work on each of the projects listed in Part III, Item 39(A). The City considers this level of past self-performance demonstrates a benefit to the Project in terms of better control of cost, schedule and safety.

   ☒ Yes ☐ No

PART I(B). ESSENTIAL REQUIREMENTS FOR PRE-QUALIFICATION FOR PGWWTP ERP

Important Note to Contractor: Only answer this question and complete Part III, Item 39(B) if you are submitting an SOPQ for the PGWWTP ERP.

An answer of "No" to any of the Question 1 will be rated a "Fail" and the Prospective Proposer will be immediately disqualified.

1. In accordance with Part III, Item 39(B), Prospective Proposer has listed no more than **six** projects completed since **January 1, 2009** with a combined **$80 million** in construction value on the following types of projects:

   a. Industrial and/or municipal water treatment plants where the structural concrete, excavation, backfill, mechanical and electrical were part of the contractor's contract; or

   b. Industrial and/or municipal wastewater treatment plants where the structural concrete, excavation, backfill, mechanical and electrical were part of the contractor's contract.

   The list of projects may include projects currently under construction, but only the total amount paid by the owner(s) as of **November 1, 2018** on uncompleted project(s) can be included in this summation of construction value. The Prospective Proposer is allowed to list no more than **six** projects of the types listed above, that combined, will add up to at least **$80 million** in completed value of work. In addition, one of the six projects must have a construction value of at least **$20 million.**

   Any projects listed in Part III, Item 39(B), which are not as defined above will not be considered by the City in meeting this pre-requisite experience requirement. For example, pipeline projects and pump station projects are not considered a treatment plant project and would not be eligible.

   Prospective Proposer also certifies that Prospective Proposer self-performed at least 40% of the work on each of the projects listed in Part III, Item 39(B). The City considers this level of past self-performance demonstrates a benefit to the Project in terms of better control of cost, schedule and safety.

   [x] Yes [ ] No

PART I(C). ESSENTIAL REQUIREMENTS FOR PRE-QUALIFICATION FOR BOTH THE PGWWTP EXPANSION PROJECT AND THE PGWWTP ENERGY RECOVERY PROJECT

Important Note to Contractor: Only answer this question and complete Part III, Item 39(C) if you are submitting an SOPQ for the both above PGWWTP projects.

An answer of "No" to any of the Question 1 will be rated a "Fail" and the Prospective Proposer will be immediately disqualified.

1. In accordance with Part III, Item 39(C), Prospective Proposer has listed no more than **six** projects completed since **January 1, 2009** with a combined **$200 million** in construction value on the following types of projects:

   a. Industrial and/or municipal water treatment plants where the structural concrete, excavation, backfill, mechanical and electrical were part of the contractor's contract; or

   b. Industrial and/or municipal wastewater treatment plants where the structural concrete, excavation, backfill, mechanical and electrical were part of the contractor's contract.

   The list of projects may include projects currently under construction, but only the total amount paid by the owner(s) as of **November 1, 2018** on uncompleted project(s) can be included in this summation of construction value. The Prospective Proposer is allowed to list no more than **six** projects of the types listed above, that combined, will add up to at least **$200 million** in completed value of work. In addition, one of the six projects must have a construction value of at least **$65 million**.

   Any projects listed in Part III, Item 39(C), which are not as defined above will not be considered by the City in meeting this pre-requisite experience requirement. For example, pipeline projects and pump station projects are not considered a treatment plant project and would not be eligible.

   Prospective Proposer also certifies that Prospective Proposer self-performed at least 40% of the work on each of the projects listed in Part III, Item 39(C). The City considers this level of past self-performance demonstrates a benefit to the Project in terms of better control of cost, schedule and safety.

   [X] Yes [ ] No

W. M. LYLES CO.
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Tab 4

Part II
Organization, History, Organizational Performance, Compliance with Civil and Criminal Laws

PART II. ORGANIZATION, HISTORY, ORGANIZATIONAL PERFORMANCE, COMPLIANCE WITH CIVIL AND CRIMINAL LAWS

A. Current Organization and Structure of the Business

For Prospective Proposers that are Corporations:

1a. Date incorporated: 5/6/1982

1b. Under the laws of what state: California

1c. Provide all the following information for each person who is either (a) an officer of the corporation (president, vice president, secretary, treasurer), or (b) the owner of at least ten percent of the corporation's stock.

Name	Position	Years with Co.	% Ownership
See attached			

1d. Identify every construction firm that any person listed above has been associated with (as owner, general partner, limited partner or officer) at any time during the last five years.

NOTE: For this question, "owner" and "partner" refer to ownership of ten percent or more of the business, or ten percent or more of its stock, if the business is a corporation.

Person's Name	Construction Firm	Dates of Person's Participation with Firm
N/A		

A. Current Organization and Structure of the Business
For Prospective Proposers that are Corporations:

1c. Provide all the following information for each person who is either (a) an officer of the corporation (president, vice president, secretary, treasurer), or (b) the owner of at least ten percent of the coporation's stock.

W. M. Lyles Co. List of Officers

Name	Position	Years with Co.	% Ownership
Stanley H. Simmons	President/CEO/ Treasurer (CFO)	26	0
Kenneth D. Strosnider	Executive Vice President	29	0
Robert P. Saleen	Senior Vice President	29	0
David H. O'Dear	Asst. Vice President/Asst. Secretary	23	0
Joseph B. Lawrence	Asst. Vice President	16	0
Kevin R. Shigematsu	Asst. Vice President	17	0
Anthony M. Mueller	Asst. Vice President	15	0
Ruben Moreno, Jr.	Secretary	12	0
Scott R. Fults	Asst. Secretary	13	0
Chanel L. Prince	Asst. Secretary	13	0

For Prospective Proposers that are Limited Liability Companies (LLC): N/A

1a. State the name of the LLC exactly as it appears on it appears on file with the California Secretary of State, including the entity ending (ex: "Jones & Company, LLC" or "Smith Construction, a Limited Liability Company").

LLC Name: _____

1b. Date LLC was formed: _____

1c. Under the laws of what state: _____

1d. State the tax classification of LLC by checking the appropriate box below:

☐- Single Entity LLC
☐- C Corporation LLC
☐- S Corporation LLC
☐- Partnership LLC

1e. Provide all the following information for each person who is either (a) an officer of the LLC (president, vice president, secretary, treasurer), or (b) partner of the LLC, or (c) the owner of at least ten percent of the LLC's stock.

Name	Position	Years with Co.	% Ownership

1f. If a Partnership LLC, provide the name of the Managing Partner.

Managing Partner's Full Name: _____

1g. Identify every construction firm that any person listed above has been associated with (as owner, general partner, limited partner or officer) at any time during the last five years.

NOTE: For this question, "owner" and "partner" refer to ownership of ten percent or more of the business, or ten percent or more of its stock, if the business is a corporation.

Person's Name	Construction Firm	Dates of Person's Participation with Firm

For Prospective Proposers that are Partnerships: N/A

1a. Date of formation: _____

1b. Under the laws of what state: _____

1c. Provide all the following information for each partner who owns ten percent or more of the firm.

Name	Position	Years with Co.	% Ownership

1d. Identify every construction company that any partner has been associated with (as owner, general partner, limited partner or officer) at any time during the last five years.

NOTE: For this question, "owner" and "partner" refer to ownership of ten percent or more of the business, or ten percent or more of its stock, if the business is a corporation.

Person's Name	Construction Company	Dates of Person's Participation with Company

For Prospective Proposers that are Sole Proprietorships: N/A

1a. Date of commencement of business. _____

1b. Identify every construction firm that the business owner has been associated with (as owner, general partner, limited partner or officer) at any time during the last 5 years.

NOTE: For this question, "owner" and "partner" refer to ownership of ten percent or more of the business, or ten percent or more of its stock, if the business is a corporation.

Person's Name	Construction Company	Dates of Person's Participation with Company

B. History of the Business and Organizational Performance

2. Has there been any change in ownership of the firm at any time during the last three years?

NOTE: A corporation whose shares are publicly traded is not required to answer this question.

☐ Yes ☒ No

If "yes," explain on a separate signed page.

3. Is the company, corporation, LLC, or other entity seeking to prequalify a parent, subsidiary, in a holding company relationship, or otherwise an affiliate of any other construction company, corporation, LLC, or other entity?

NOTE: All Prospective Proposers will be required to properly execute and submit the Prospective Proposer's Certification included in Appendix G as Attachment A to the SOPQ Submittal.

See attached.

☒ Yes ☐ No

If "yes," on a separate signed page, please provide a complete corporate tree showing percentage of ownership. In addition, if any such affiliated company, corporation, LLC, or other entity is seeking to prequalify as well, identify such entity and submit proof satisfactory to the City that the requirements of Section 2.4 are satisfied.

B. **History of the Business and Organizational Performance**

3. Is the company, corporation, LLC or other entity seeking to prequalify a parent, subsidiary, in a holding company relationship, or otherwise an affiliate of any other construction company, corporation, LLC, or other entity?

Lyles Diversified, Inc. - Parent Company
W.M. Lyles Co., New England Sheet Metal and Mechanical Co., and American Paving Co. - Wholly owned, qualified Subchapter S Subsidiaries of Lyles Diversified, Inc.

Joseph B. Lawrence, Asst. Vice President

4. Are any of your directors, officers, partners or owners also an officer, director, partner or owner of another construction company, corporation, LLC, or other entity?

☐ Yes ☒ No

If "yes," on a separate signed page, please identify such person(s) and the other construction company involved. In addition, if such other construction company is seeking to prequalify as well, submit proof satisfactory to the City that the requirements of Section 2.4 are satisfied.

5. State your firm's gross revenues for each of the last three years:

$211,632,837	$229,996,064	$243,891,673
2018	2017	2016

6. How many years has your organization been in business as a contractor under your present business name and license number? 36 years

7. Is your firm currently the debtor in a bankruptcy case?

☐ Yes ☒ No

If "yes," please attach a copy of the bankruptcy petition, showing the case number, and the date on which the petition was filed.

8. Was your firm in bankruptcy at any time during the last five years? (This question refers only to a bankruptcy action that was not described in answer to question 7, above)

☐ Yes ☒ No

If "yes," please attach a copy of the bankruptcy petition, showing the case number and the date on which the petition was filed, and a copy of the Bankruptcy Court's discharge order, or of any other document that ended the case, if no discharge order was issued.

Licenses

9. List all California construction license numbers, classifications and expiration dates of the California contractor licenses held by your firm:

CSLB No. 422390 / Class A, B / Expiration 5/31/2020

10. If any of your firm's license(s) are held in the name of a corporation, LLC, or partnership, list below the names of the qualifying individual(s) listed on the CSLB records whom meet(s) the experience and examination requirements for each license.

Kenneth Strosnider, RMO

11. Has your firm changed names or license number in the past five years?

☐ Yes ☒ No

If "yes," explain on a separate signed page, including the reason for the change.

12. Has any owner, partner or (for corporations, LLC) officer of your firm operated a construction firm under any other name in the last five years?

☐ Yes ☒ No

If "yes," explain on a separate signed page, including the reason for the change.

13. Has any CSLB license held by your firm or its Responsible Managing Employee or Responsible Managing Officer been suspended within the last five years?

☐ Yes ☒ No

If "yes," please explain on a separate signed sheet.

Disputes

The City recognizes that large construction companies (e.g. revenues in excess of $250 million per year) have multiple branches/divisions for geographic and/or type of construction coverages. In such cases, the Prospective Proposer may elect to submit a set of qualifications for a specific company branch or division which shall be clearly identified in a cover letter to the SOPQ package submittal. As such, should a Prospective Proposer choose to submit qualifications for a specific branch /division, the scoring requirements for Part II B-C of the SOPQ, as well as all other submitted information shall be branch/division specific. Financial statements should still be for the total company and parent company even if a Prospective Proposer submits the scoring requirements specific to a company branch or division.

14. At any time in the last five years, has your firm been assessed and paid liquidated damages after completion of a project under a construction contract with either a public or private owner?

☐ Yes ☒ No

If yes, explain on a separate signed page, identifying all such projects by owner, owner's address, the date of completion of the project, amount of liquidated damages assessed and all other information necessary to fully explain the assessment of liquidated damages.

15. In the last five years has your firm, or any firm with which any of your company's owners, officers or partners was associated, been debarred, disqualified, removed or otherwise prevented from bidding on, or completing, any government agency or public works project for any reason?

NOTE: "Associated with" refers to another construction firm in which an owner, partner or officer of your firm held a similar position, and which is listed in response to question 1c or 1d on this form.

☐ Yes ☒ No

If "yes," explain on a separate signed page. State whether the firm involved was the firm applying for Pre-Qualification here or another firm. Identify by name of the company, the name of the person within your firm who was associated with that company, the year of the event, the owner of the project, the project and the basis for the action.

16. In the last 5 years has your firm been denied an award of a public works contract based on a finding by a public agency that your company was not a responsible bidder?

☐ Yes ☒ No

If "yes," explain on a separate signed page. Identify the year of the event, the owner, the project and the basis for the finding by the public agency.

* * * * *

NOTE: The following two questions refer only to disputes between your firm and the owner of a project. You need not include information about disputes between your firm and a supplier, another contractor, or subcontractor. You need not include information about "pass-through" disputes in which the actual dispute is between a sub-contractor and a project owner. Also, you may omit reference to all disputes about amounts of less than $50,000.

17. In the past five years has any claim **against** your firm concerning your firm's work on a construction project been **filed in court or arbitration**?

☒ Yes ☐ No See attached

If "yes," on separate signed sheets of paper identify the claim(s) by providing the project name, date of the claim, name of the claimant, a brief description of the nature of the claim, the court in which the case was filed and a brief description of the status of the claim (pending or, if resolved, a brief description of the resolution). See attached.

18. In the past five years has your firm made any claim against a project owner concerning work on a project or payment for a contract and **filed that claim in court or arbitration**?

[x] Yes [ ] No See attached.

If "yes," on separate signed sheets of paper identify the claim by providing the project name, date of the claim, name of the entity (or entities) against whom the claim was filed, a brief description of the nature of the claim, the court in which the case was filed and a brief description of the status of the claim (pending, or if resolved, a brief description of the resolution).

19. At any time during the past five years, has any surety company made any payments on your firm's behalf as a result of a default, to satisfy any claims made against a performance or payment bond issued on your firm's behalf, in connection with a construction project, either public or private?

[ ] Yes [x] No

If "yes," explain on a separate signed page the amount of each such claim, the name and telephone number of the claimant, the date of the claim, the grounds for the claim, the present status of the claim, the date of resolution of such claim if resolved, the method by which such was resolved if resolved, the nature of the resolution and the amount, if any, at which the claim was resolved.

20. In the last five years has any insurance carrier, for any form of insurance, refused to renew the insurance policy for your firm?

[ ] Yes [x] No

If "yes," explain on a separate signed page. Name the insurance carrier, the form of insurance and the year of the refusal.

Criminal Matters and Related Civil Suits

21. Has your firm or any of its owners, officers or partners ever been found liable in a civil suit or found guilty in a criminal action for making any false claim or material misrepresentation to any public agency or entity?

[ ] Yes [x] No

If "yes," explain on a separate signed page, including identifying who was involved, the name of the public agency, the date of the investigation and the grounds for the finding.

22. Has your firm or any of its owners, officers or partners ever been convicted of a crime involving any federal, state, or local law related to construction?

[ ] Yes [x] No

B. **History of the Business and Organizational Performance**

17 In the past five years has any claim against your firm concerning your firm's work on a construction project been filed in court or arbitration?

Project Name: Tulare Industrial Wastewater Treatment Plant Expansion completed 3/5/10

Completed: 3/5/2010
Date of Claim: 3/28/15

Claimant: City of Tulare vs. Xylem Water Solutions USA, Inc., FKA Sanitaire, W. M. Lyles Co., et al

Filed in Tulare County Superior Court
Claim Status: Settled

Brief:
City of Tulare claimed Breach of Contract, Breach of Warranty and Damages against the parties for failure of the diffuser system lock rings installed in the plant expansion project. Causation was not determined by the Plaintiff. W. M. Lyles Co. did not perform design, or choose the equipment system. Rather, W. M. Lyles Co. installed the equipment that was pre-selected/sole sourced by the Owner as directed and approved by the Manufacturer, and according to the Project specifications. This claim was dismissed as the Parties settled the matter in July 2016.

18 In the past five years has your firm made any claim against a project owner concerning work on a project or payment for a contract and filed that claim in court or arbitration?

Project Name: Tulare Industrial Wastewater Treatment Plant Expansion
Completed: 3/5/2010
Date of Claim: 11/2/2015
Cross Complainant: W. M. Lyles Co.. vs. City of Tulare, Xylem Water Solutions USA, Inc., FKA Sanitaire, et al
Court Filed: Tulare County Superior Court
Claim Status: Settled
Brief: See above.

There are no current claims against W. M. Lyles Co. that if we should lose the claim, would adversely affect our financial position, or our ability to meet our obligations if awarded the contract for this project.

W.M. Lyles Co.

Joseph B. Lawrence, Asst. Vice President

If "yes," explain on a separate signed page, including identifying who was involved, the name of the public agency, the date of the conviction and the grounds for the conviction.

23. Has your firm or any of its owners, officers or partners ever been convicted of a federal or state crime of fraud, theft, or any other act of dishonesty?

☐ Yes ☒ No

If "yes," identify on a separate signed page the person or persons convicted, the court (the county if a state court, the Agency or location of the federal court), the year and the criminal conduct.

Bonding

24. Bonding capacity: Provide documentation from your surety identifying the following:

Name of bonding company/surety: Liberty Mutual Insurance Company

Name of surety agent, address and telephone number:

Alliant Insurance Services, Inc., Steve Edwards, 9 E. Riverpark Place East, Suite 310, Fresno, CA 93720, (559)374-3560

25. If your firm was required to pay a premium of more than one percent for a performance and payment bond on any project(s) on which your firm worked at any time during the last three years, state the percentage that your firm was required to pay. You may provide an explanation for a percentage rate higher than one percent, if you wish to do so.

N/A

26. List all other sureties (name and full address) that have written bonds for your firm during the last five years, including the dates during which each wrote the bonds:

N/A

27. During the last five years, has your firm ever been denied bond coverage by a surety company, or has there ever been a period of time when your firm had no surety bond in place during a public construction project when one was required?

☐ Yes ☒ No

If yes, provide details on a separate signed sheet indicating the date when your firm was denied coverage and the name of the company or companies which denied coverage; and the period during which you had no surety bond in place.

C. Compliance with Occupational Safety and Health Laws and with Other Labor Legislation

28. Has CAL OSHA cited and assessed penalties against your firm for any "serious," "willful" or "repeat" violations of its safety or health regulations in the past five years?

NOTE: If you have filed an appeal of a citation, and the Occupational Safety and Health Appeals Board has not yet ruled on your appeal, you need not include information about it.

☐ Yes ☒ No

If "yes," attach a separate signed page describing the citations, including information about the dates of the citations, the nature of the violation, the project on which the citation(s) was or were issued, the amount of penalty paid, if any. If the citation was appealed to the Occupational Safety and Health Appeals Board and a decision has been issued, state the case number and the date of the decision.

29. Has the federal Occupational Safety and Health Administration cited and assessed penalties against your firm in the past five years?

NOTE: If you have filed an appeal of a citation and the Appeals Board has not yet ruled on your appeal, or if there is a court appeal pending, you need not include information about the citation.

☐ Yes ☒ No

If "yes," attach a separate signed page describing each citation.

30. Has the EPA or any Air Quality Management Agency or any Regional Water Quality Control Board cited and assessed penalties against either your firm or the owner of a project on which your firm was the contractor, in the past five years?

NOTE: If you have filed an appeal of a citation and the Appeals Board has not yet ruled on your appeal, or if there is a court appeal pending, you need not include information about the citation.

☒ Yes ☐ No

If "yes," attach a separate signed page describing each citation. See attached.

B. History of the Business and Organizational Performance

30 Has the EPA or any Air Quality Management District or any Regional Water Quality Control Board cited and assessed penalties against either your firm or the owner of a project on which your firm was the contractor, in the past five years?

On approximately 8/22/2018, W.M. Lyles Co. ("WML") received a Notice of Violation from the San Joaquin Valley Unified Air Pollution Control District ("SJVUAPCD") related to a Carryout and Trackout violation citing, "Failure to prevent carryout and trackout extending over 50 ft. or more from the nearest unpaved surface exit point of a site within an urban area. This was the first offense incurred by WML in its long seventy four (74) year history and the fine incurred was $1,200.00, which has been fully satisfied. No further sanctions and/or clouds have been placed upon WML's CSLB license in regard to this incident and it will have no impact whatsoever upon WML's ability to perform its current work or to provide future services.

Joseph B. Lawrence, Asst. Vice President

31. How often do you require documented safety meetings to be held for construction employees and field supervisors during the course of a project? weekly

32. Experience Modification Rate (EMR): Prospective Proposers shall obtain a letter from your insurance carrier (or state fund if applicable) with your interstate EMR's for the current year, previous year and year prior to previous year. If you do not have an interstate rating, obtain your intrastate EMR's. Attach the letter as part of this SOPQ Package Submittal. The Prospective Proposer shall list below the Experience Modification Rate for the current year, previous year and year prior to previous year as provided by your insurance carrier.

Year	EMR
Current year	2018: 0.78
Previous year	2017: 0.91
Year prior to previous year	2016: 1.02
Three Year Average	0.91
Are the above rates interstate or intrastate?	intrastate
If intrastate, which state?	California

NOTE: Any of the following methods of "obtaining a letter" are acceptable:

- Furnish a letter from your insurance agent, insurance carrier or state fund (on their letterhead) verifying the EMR data listed above; or See tab 9
- Furnish a Photostat of the applicable Experience Rating Calculation Sheets, which your insurance carrier should forward to you annually.

A Prospective Proposer will be immediately disqualified if its Three-Year Average EMR is greater than 1.25 (125%).

33. Within the last five years has there ever been a period when your firm had employees but was without workers' compensation insurance or state-approved self-insurance?

☐ Yes ☒ No

If "yes," please explain the reason for the absence of workers' compensation insurance on a separate signed page. If "No," please provide a statement by your current workers' compensation insurance carrier that verifies periods of workers' compensation insurance coverage for the last five years. (If your firm has been in the construction business for less than five years, provide a statement by your workers' compensation insurance carrier verifying continuous workers' compensation insurance coverage for the period that your firm has been in the construction business.)

Prevailing Wage and Apprenticeship Compliance Record

34. Has there been more than one occasion during the last five years in which your firm was required to pay either back wages or penalties for your own firm's failure to comply with the **state's** prevailing wage laws?

NOTE: This question refers only to your own firm's violation of prevailing wage laws, not to violations of the prevailing wage laws by a subcontractor.

☐ Yes ☒ No

If "yes," attach a separate signed page or pages, describing the nature of each violation, identifying the name of the project, the date of its completion, the public agency for which it was constructed; the number of employees who were initially underpaid and the amount of back wages and penalties that you were required to pay.

35. During the last five years, has there been more than one occasion in which your own firm has been penalized or required to pay back wages for failure to comply with the **federal** Davis-Bacon prevailing wage requirements?

☐ Yes ☒ No

If "yes," attach a separate signed page or pages describing the nature of the violation, identifying the name of the project, the date of its completion, the public agency for which it was constructed; the number of employees who were initially underpaid, the amount of back wages you were required to pay along with the amount of any penalty paid.

36. Provide the **name, address and telephone number** of the apprenticeship program (approved by the California Apprenticeship Council) from whom you intend to request the dispatch of apprentices to your company for use on any public work project for which you are awarded a contract by the Owner.

See attached.

37. If your firm operates its own State-approved apprenticeship program:

(a) Identify the craft or crafts in which your firm provided apprenticeship training in the past year.

(b) State the year in which each such apprenticeship program was approved, and attach evidence of the most recent California Apprenticeship Council approval(s) of your apprenticeship program(s).

Apprentice Program	Office Location and Phone Number
Northern California Carpenters	2350 Santa Rita Road Pleasanton, CA 94566 Phone: (925) 462-9640
Northern California Cement Masons	2350 Santa Rita Road Pleasanton, CA 94566 Phone: (925) 484-2271
Northern California Laborers	1001 Westside Drive San Ramon, CA 94583 Phone: (925) 556-0858
Northern California Operating Engineers	14738 Cantova Way Sloughhouse, CA 95683 Phone: (916) 354-2029

(c) State the number of individuals who were employed by your firm as apprentices at any time during the past three years in each apprenticeship and the number of persons who, during the past three years, completed apprenticeships in each craft while employed by your firm.

N/A

38. At any time during the last five years, has your firm been found to have violated any provision of California apprenticeship laws or regulations, or the laws pertaining to use of apprentices on public works?

☐ Yes ☒ No

If "yes," provide the date(s) of such findings, and attach copies of the Department's final decision(s).

W. M. LYLES CO.
CONTRACTOR
Since 1945
Progress Through Performance®

Tab 5

Part III
Recent Construction Projects Completed

PART III. RECENT CONSTRUCTION PROJECTS COMPLETED

Important Note to Contractor: Only complete Part III, Item 39(A) if you are submitting an SOPQ for the PGWWTP Expansion.

39(A) In accordance with Part I, Question 9, and the Prospective Proposer must demonstrate that it has performed at least **$150 million** in construction volume on no more than **six** projects completed since **January 1, 2009** on the following types of projects:

a. Industrial and/or municipal water treatment plants where the structural concrete, excavation, backfill, mechanical and electrical were part of the contractor's contract; or

b. Industrial and/or municipal wastewater treatment plants where structural concrete, excavation, backfill, mechanical and electrical were part of the contractor's contract.

The list of projects may include projects currently under construction, but only the total amount paid by the owner(s) as of **November 1, 2018** on uncompleted projects can be included in this summation of construction value. The Prospective Proposer is allowed to list no more than **six** projects of the types listed above, that combined, will add up to at least **$150 million** in completed value of work. **In addition, one of the six projects must have a construction value of at least $45 million.**

Any projects listed below, which are not as defined above, will not be considered by the City in meeting this pre-requisite experience requirement. For example, pipeline projects, and/or pump station projects are not considered an equivalent project.

An industrial and/or municipal water or wastewater treatment plant project is defined as a project that was engineered and constructed for an industrial or municipally owned and operated facility which is designed to remove contaminants, specific constituents, and/or particulates in water and/or wastewater as required by a State issued discharge permit.

Prospective Proposer also certifies that Prospective Proposer self-performed at least 40% of the Work on each of the projects listed below. The City considers this level of past self-performance demonstrates a benefit to the Project in terms of better control of cost, schedule, and safety.

Prospective Proposers are to complete this form and not attach their own form to their SOPQ submission.

Qualifying Project # 1 Name: Wastewater Treatment Plant Secondary and Tertiary Improvements Project

Prime Contractor: AECOM & WML, a Joint Venture

Project Manager: John Lunsford

Owner: City of Davis

Construction Cost: $ 32,619,341.00

Construction Time: 1,493 Calendar Days

Owner's Representative: Diana Jensen

Owner's Representative Telephone No.: (530) 757-5686

Engineer or On-Site Construction Mgr.: AECOM

Engineer or On-Site CM's Telephone No.: Scott Thibault (978) 905-3217

Date of Substantial Completion: September 28, 2018

Qualifying Project # 2 Name: Southeast Surface Water Treatment Facility - Phase Two

Prime Contractor: W. M. Lyles Co.

Project Manager: Tony Mueller

Owner: City of Fresno

Construction Cost: $ 162,089,360.00

Construction Time: 1,000 Calendar Days

Owner's Representative: Glenn Knapp

Owner's Representative Telephone No.: (559) 621-1624

Engineer or On-Site Construction Mgr.: Carollo Engineers

Engineer or On-Site CM's Telephone No.: Chris Johnson (208) 376-2288

Date of Substantial Completion: August 7, 2018

Qualifying Project # 3 Name: Water Conservation Plant Upgrades

Prime Contractor: W. M. Lyles Co.

Project Manager: Ruben Moreno, Jr.

Owner: City of Visalia

Construction Cost: $ 103,499,235.00

Construction Time: 1,607 Calendar Days

Owner's Representative: Jim Ross

Owner's Representative Telephone No.: (559) 713-4533

Engineer or On-Site Construction Mgr.: Parsons

Engineer or On-Site CM's Telephone No.: Satish Kamath (626) 440-3364

Date of Substantial Completion: March 31, 2017

Qualifying Project # 4 Name: Primary Treatment Renovations

Prime Contractor: W. M. Lyles Co.

Project Manager: John Lunsford

Owner: Central Contra Costa Sanitary District

Construction Cost: $ 11,441,946.00

Construction Time: 1,227 Calendar Days

Owner's Representative: Craig Mizutani

Owner's Representative Telephone No.: (925) 229-7361

Engineer or On-Site Construction Mgr.: Central Contra Costa Sanitary District

Engineer or On-Site CM's Telephone No.: Nathan Morales (925) 229-7126

Date of Substantial Completion: January 22, 2016

Qualifying Project # 5 Name: Wastewater Treatment Plant Upgrade and Expansion Project

Prime Contractor: W. M. Lyles Co. (formerly known as Kaweah Construction Co.)

Project Manager: Matt Cain

Owner: Linda County Water District

Construction Cost: $ 29,547,940.00

Construction Time: 247 Calendar Days

Owner's Representative: Brian Davis

Owner's Representative Telephone No.: (530) 743-2043

Engineer or On-Site Construction Mgr.: Kennedy Jenks Engineering

Engineer or On-Site CM's Telephone No.: Don Barraza (916) 858-2700

Date of Substantial Completion: May 23, 2012

Qualifying Project # 6 Name: Palmdale Water Reclamation Plant Stage 5 Plant Expansion, Phase 1

Prime Contractor: W. M. Lyles Co.

Project Manager: Grant Gourley

Owner: County Sanitation District No. 20 of Los Angeles County

Construction Cost: $ 116,079,180.00

Construction Time: 1,559 Calendar Days

Owner's Representative: Ted Brodeur

Owner's Representative Telephone No.: (626) 962-8605

Engineer or On-Site Construction Mgr.: Los Angeles County Sanitation District

Engineer or On-Site CM's Telephone No.: Jenny Hsu (562) 908-4288

Date of Substantial Completion: June 16, 2012

Total Construction Cost of listed Qualifying Project(s) above: $ 455,277,002.00

Important Note to Prospective Proposer: Only complete Part III, Item 39(B) if you are submitting an SOPQ for the PGWWTP ERP.

39(B) In accordance with Part I, Question 9, and the Prospective Proposer must demonstrate that it has performed at least **$80 million** in construction volume on no more than **six** projects completed since **January 1, 2009** on the following types of projects:

a. Industrial and/or municipal water treatment plants where the structural concrete, excavation, backfill, mechanical and electrical were part of the contractor's contract; or

b. Industrial and/or municipal wastewater treatment plants where structural concrete, excavation, backfill, mechanical and electrical were part of the contractor's contract.

The list of projects may include projects currently under construction, but only the total amount paid by the owner(s) as of **November 1, 2018** on uncompleted projects can be included in this summation of construction value. The Prospective Proposer is allowed to list no more than **six** projects of the types listed above, that combined, will add up to at least **$80 million** in completed value of work. **In addition, one of the six projects must have a construction value of at least $20 million.**

Any projects listed below, which are not as defined above, will not be considered by the City in meeting this pre-requisite experience requirement. For example, pipeline projects, and/or pump station projects are not considered an equivalent project.

An industrial and/or municipal water or wastewater treatment plant project is defined as a project that was engineered and constructed for an industrial or municipally owned and operated facility which is designed to remove contaminants, specific constituents, and/or particulates in water and/or wastewater as required by a State issued discharge permit.

Prospective Proposer also certifies that Prospective Proposer self-performed at least 40% of the Work on each of the projects listed below. The City considers this level of past self-performance demonstrates a benefit to the Project in terms of better control of cost, schedule, and safety.

Prospective Proposers are to complete this form and not attach their own form to their SOPQ submission.

Qualifying Project # 1 Name: CR&R Riverside County Environmental Center

Prime Contractor: W. M. Lyles Co.

Project Manager: Dave O'Dear

Owner: CR & R Incorporated

Construction Cost: $ 34,734,495.33

Construction Time: 1,387 Calendar Days

Owner's Representative: Michael J. Silva

Owner's Representative Telephone No.: (714) 826-9046

Engineer or On-Site Construction Mgr.: J.R. Miller & Associates

Engineer or On-Site CM's Telephone No.: Aric Vanderzee (714) 524-1870

Date of Substantial Completion: March 5, 2018

Qualifying Project # 2 Name: Southeast Surface Water Treatment Facility

Prime Contractor: W. M. Lyles Co.

Project Manager: Tony Mueller

Owner: City of Fresno

Construction Cost: $ 162,089,360

Construction Time: 1,000 Calendar Days

Owner's Representative: Glenn Knapp

Owner's Representative Telephone No.: (559) 621-1624

Engineer or On-Site Construction Mgr.: Carollo Engineers

Engineer or On-Site CM's Telephone No.: Chris Johnson (208) 376-2288

Date of Substantial Completion: August 7, 2018

Qualifying Project # 3 Name: Water Conservation Plant Upgrades

Prime Contractor: W. M. Lyles Co.

Project Manager: Ruben Moreno, Jr.

Owner: City of Visalia

Construction Cost: $ 103,499,235.00

Construction Time: 1,607 Calendar Days

Owner's Representative: Jim Ross

Owner's Representative Telephone No.: (559) 713-4533

Engineer or On-Site Construction Mgr.: Parsons

Engineer or On-Site CM's Telephone No.: Satish Kamath (626) 440-3364

Date of Substantial Completion: March 31, 2017

Qualifying Project # 4 Name: Wastewater Treatment Plant Upgrade Project

Prime Contractor: W. M. Lyles Co.

Project Manager: Jeff Mathiowetz

Owner: City of El Paso de Robles

Construction Cost: $ 38,051,687.00

Construction Time: 1,352 Calendar Days

Owner's Representative: Matt Thompson

Owner's Representative Telephone No.: (805) 227-7200

Engineer or On-Site Construction Mgr.: Black & Veatch

Engineer or On-Site CM's Telephone No.: Ashu Shirolkar (916) 851-0260

Date of Substantial Completion: April 12, 2016

Qualifying Project # 5 Name: Victor Valley Wastewater Plant Biogas Facility

Prime Contractor: W. M. Lyles Co.

Project Manager: Grant Gourley

Owner: Victor Valley Wastewater Reclamation Authority

Construction Cost: $ 2,029,315.17

Construction Time: 617 Calendar Days

Owner's Representative: Logan Olds

Owner's Representative Telephone No.: (760) 246-8638

Engineer or On-Site Construction Mgr.: Water Synergy, Inc.

Engineer or On-Site CM's Telephone No.: Don Bunts (760) 533-4086

Date of Substantial Completion: 7/31/2014

Qualifying Project # 6 Name: Moreno Valley RWRF Preliminary Treatment and Acid Phase Anaerobic Digestion

Prime Contractor: W. M. Lyles Co.

Project Manager: Tony Mueller

Owner: Eastern Municipal Water District

Construction Cost: $ 30,925,370.00

Construction Time: 1,233 Calendar Days

Owner's Representative: Bruce Mitzel

Owner's Representative Telephone No.: (951) 928-3777

Engineer or On-Site Construction Mgr.: Carollo Engineers

Engineer or On-Site CM's Telephone No.: Rick Doeve (909) 915-8405

Date of Substantial Completion: March 16, 2012

Total Construction Cost of listed Qualifying Project(s) above: $ 371,329,462.50

Important Note to Contractor: Only complete Part III, Item 39(C) if you are submitting an SOPQ for both the PGWWTP Expansion and PGWWTP ERP independently.

39(C) In accordance with Part I, Question 9, and the Prospective Proposer must demonstrate that it has performed at least **$200 million** in construction volume on no more than **six** projects completed since **January 1, 2009** on the following types of projects:

a. Industrial and/or municipal water treatment plants where the structural concrete, excavation, backfill, mechanical and electrical were part of the contractor's contract; or

b. Industrial and/or municipal wastewater treatment plants where structural concrete, excavation, backfill, mechanical and electrical were part of the contractor's contract.

The list of projects may include projects currently under construction, but only the total amount paid by the owner(s) as of **November 1, 2018** on uncompleted projects can be included in this summation of construction value. The Prospective Proposer is allowed to list no more than **six** projects of the types listed above, that combined, will add up to at least **$200 million** in completed value of work. **In addition, one of the six projects must have a construction value of at least $65 million.**

Any projects listed below, which are not as defined above, will not be considered by the City in meeting this pre-requisite experience requirement. For example, pipeline projects, and/or pump station projects are not considered an equivalent project.

An industrial and/or municipal water or wastewater treatment plant project is defined as a project that was engineered and constructed for an industrial or municipally owned and operated facility which is designed to remove contaminants, specific constituents, and/or particulates in water and/or wastewater as required by a State issued discharge permit.

Prospective Proposer also certifies that Prospective Proposer self-performed at least 40% of the Work on each of the projects listed below. The City considers this level of past self-performance demonstrates a benefit to the Project in terms of better control of cost, schedule, and safety.

Prospective Proposers are to complete this form and not attach their own form to their SOPQ submission.

Qualifying Project # 1 Name: CR&R Riverside County Environmental Center

Prime Contractor: W. M. Lyles Co.

Project Manager: Dave O'Dear

Owner: CR&R Incorporated

Construction Cost: $ 34,734,495.33

Construction Time: 1,387 Calendar Days

Owner's Representative: Michael J. Silva

Owner's Representative Telephone No.: (714) 826-9046

Engineer or On-Site Construction Mgr.: J. R. Miller & Associates

Engineer or On-Site CM's Telephone No.: Aric Vanderzee

Date of Substantial Completion: March 5, 2018

Qualifying Project # 2 Name: Wastewater Treatment Plant Secondary and Tertiary Improvements Project

Prime Contractor: AECOM & WML, a Joint Venture

Project Manager: John Lunsford

Owner: City of Davis

Construction Cost: $ 32,619,341.00

Construction Time: 1,493 Calendar Days

Owner's Representative: Diana Jensen

Owner's Representative Telephone No.: (530) 757-5686

Engineer or On-Site Construction Mgr.: AECOM

Engineer or On-Site CM's Telephone No.: Scott Thibault (978) 905-3217

Date of Substantial Completion: September 28, 2018

Qualifying Project # 3 Name: Southeast Surface Water Treatment Facility - Phase Two

Prime Contractor: W. M. Lyles Co.

Project Manager: Tony Mueller

Owner: City of Fresno

Construction Cost: $ 162,089,360.00

Construction Time: 1,000 Calendar Days

Owner's Representative: Glenn Knapp

Owner's Representative Telephone No.: (559) 621-1624

Engineer or On-Site Construction Mgr.: Carollo Engineers

Engineer or On-Site CM's Telephone No.: Chris Johnson (208) 376-2288

Date of Substantial Completion: September 28, 2018

Qualifying Project # 4 Name: Water Conservation Plant Upgrades

Prime Contractor: W. M. Lyles Co.

Project Manager: Ruben Moreno, Jr.

Owner: City of Visalia

Construction Cost: $ 103,499,235.00

Construction Time: 1,607 Calendar Days

Owner's Representative: Jim Ross

Owner's Representative Telephone No.: (559) 713-4533

Engineer or On-Site Construction Mgr.: Parson

Engineer or On-Site CM's Telephone No.: Satish Kamath (626) 440-3364

Date of Substantial Completion: March 31, 2017

Qualifying Project # 5 Name: Primary Treatment Renovations

Prime Contractor: W. M. Lyles Co.

Project Manager: John Lunsford

Owner: Central Contra Costa Sanitary District

Construction Cost: $ 11,441,946.00

Construction Time: 1,227 Calendar Days

Owner's Representative: Craig Mizutani

Owner's Representative Telephone No.: (925) 229-7361

Engineer or On-Site Construction Mgr.: Central Contra Costa Sanitary District

Engineer or On-Site CM's Telephone No.: Nathan Morales (925) 229-7126

Date of Substantial Completion: January 22, 2016

Qualifying Project # 6 Name: Wastewater Treatment Plant Upgrade and Expansion Project

Prime Contractor: W. M. Lyles Co.

Project Manager: Matt Cain

Owner: Linda County Water District

Construction Cost: $ 29,547,940.00

Construction Time: 247 Calendar Days

Owner's Representative: Brian Davis

Owner's Representative Telephone No.: (530) 743-2043

Engineer or On-Site Construction Mgr.: Kennedy Jenks Engineering

Engineer or On-Site CM's Telephone No.: Don Barraza (916) 858-2700

Date of Substantial Completion: May 23, 2012

Total Construction Cost of listed Qualifying Project(s) above: $ 373,932,317.33

SECTION 4

BASIS OF DETERMINATION

4.1 GENERAL

The determination of prequalified Prospective Proposers will be based on an evaluation of the SOPQ and information gathered by the City from the references of related projects. See Appendix B for scoring criteria. The categories that will be evaluated under the basis of determination are responsiveness and capability.

4.2 RESPONSIVENESS

Prospective Proposers must demonstrate they do not have a conflict of interest in the PGWWTP project(s) SOPQ submitted by Prospective Proposer, nor a direct relationship with another prequalifying firm.

Before evaluation of the Prospective Proposer's capability, the responsiveness of the Prospective Proposer will be assessed. The assessment of responsiveness will determine if adequate information or the minimum prerequisites have been submitted to permit an evaluation under the basis of determination. A SOPQ submittal will be rejected as nonresponsive for lack of adequate information due to incompleteness, illegibility, or disregard of the requested format.

4.3 CAPABILITY

The determination by the City of a Prospective Proposer's capability shall assess the Prospective Proposer's ability, capacity, and skill to construct the subject PGWWTP project(s) in a timely and satisfactory manner, based on the responses to the questions in Section 3 and the scoring system described in Appendix B.

W. M. LYLES CO.
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Tab 6

Attachment A
Prospective Proposer's Certification

PROSPECTIVE PROPOSER'S CERTIFICATION

I have carefully examined the Request for Statements of Pre-Qualification from Interested General Contractors (RFPQ) and any other documents accompanying or made a part of this Statement of Pre-Qualifications (SOPQ) packet. The information contained in this SOPQ packet is true and correct to the best of my knowledge and is signed under penalty of perjury under the laws of the State of California. I further certify that I am duly authorized to submit this SOPQ packet on behalf of the firm as its authorized agent and that the firm is ready, willing and able to perform if awarded the contract.

I further certify that this SOPQ packet is made without prior understanding, agreement, connection, discussion, or conspiracy with any other person, contractor or corporation submitting a SOPQ packet for the same service; that this SOPQ packet is fair and made without outside control, collusion, fraud or illegal action; that no officer, employee or agent of the City or any other proposer is financially interested in said SOPQ packet; that no undue influence or pressure was used against or in concert with any officer, employee or agent of the City in connection with the pre-qualification process for the Pleasant Grove Wastewater Treatment Plant projects that will be executed as a result of the Request for Bid Proposals; and that the undersigned executed this Prospective Proposer's Certification with full knowledge and understanding of the matters therein contained and was duly authorized to do so.

W. M. Lyles Co.
NAME OF GENERAL CONTRACTOR

SIGNATURE

Joseph B. Lawrence, Asst. Vice President
NAME & TITLE, TYPED OR PRINTED

1210 W. Olive Avenue, Fresno, CA 93728
MAILING ADDRESS

(559) 441-1900
TELEPHONE NUMBER

jlawrence@wmlylesco.com
EMAIL

Type of Organization:

____ Sole Proprietorship __x__ Corporation __CA__ State of Incorporation

____ Partnership ____ Limited Liability Company

W. M. LYLES CO.
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Tab 7

Conflict of Interest Statement

2.3 Conflict of Interest

We hereby warrant that no official or employee of the City has an interest, has been employed or retained to solicit or aid in the procuring of the contract for either PGWWTP Project, nor that any such person will be employed in the performance of such contract without immediate divulgence of such fact to the City.

W. M. Lyles Co.

Joseph B. Lawrence, Asst. Vice President

W. M. LYLES CO.
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Tab 8

Letter of Intent to Insure

March 22, 2019

Tracie Mueller, P.E.
City of Roseville
City Clerk Department
311 Vernon Street
Roseville, CA 95678

Re: Pleasant Grove Wastewater Treatment Plant Expansion Project
Pleasant Grove Wastewater Treatment Plant Energy Recovery Project

Dear Ms. Mueller,

W. M. Lyles Co. has submitted herewith a response to the request of Intent to Insure for the above referenced Statement of Prequalification.

The respective insurers are very familiar with W. M. Lyles Co.'s operations and qualifications. Accordingly, upon award of a contract for the above referenced project, based on our standard underwriting practices at that time, the respective insurers anticipate that they would provide the insurance coverages specified in Appendix D, Bonds and Insurance.

Alliant Insurance Services, Inc.
(Representing Old Republic Insurance Company, Allied World Assurance Company, Berkley Assurance Company & Allianz Global US Insurance Co)

Nick Bellasis
Sr. Vice President

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

Civil Code § 1189

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 Fresno)

On March 22, 2019, before me, Bonnie Gonzalez, Notary Public, personally appeared Nick Bellasis, who proved to me on the basis of satisfactory evidence to be the person~~(s)~~ whose name~~(s)~~ is~~/are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity~~(ies)~~, and that by his/~~her/their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ 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.

BONNIE GONZALEZ
NOTARY PUBLIC - CALIFORNIA
COMMISSION # 2202238
FRESNO COUNTY
My Comm. Exp. July 12, 2021

(Seal)

Signature: Bonnie Gonzalez

Bonnie Gonzalez, Notary Public

W. M. LYLES CO.
CONTRACTOR
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Tab 9

EMR Letter

November 15, 2018

RE: W.M. Lyles Co.
2018 Workers' Compensation Experience Modification Rating

To Whom It May Concern,

Alliant Insurance Services, Inc. is the insurance broker handling all lines of coverage for the Lyles group of companies, which includes workers' compensation.

Included within that organization is W.M. Lyles Co. As an integral part of the larger organization, W.M. Lyles Co. shares in the combined experience modification rating promulgated by the State of California. Alliant produces and calculates an individual modification factor which is based solely on the experience of W.M. Lyles Co. using the identical State Factors and formula, as if there were a standalone entity. This individually calculated experience modification factor is much more reflective of their own safety performance as compared to the overall factor published by the State of CA for combined entities.

The most recent published combined experience modification rating effective 5-31-18 is 78%.

The prior published ratings are as follows:

2017 – Combined 91%/Individual 85%
2016 – Combined 102%/Individual 84%

Please advise if you require any further information.

Regards,

Lori Howard

Vice President, Claims Consultant

W. M. LYLES CO.
CONTRACTOR
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Tab 10

Notarized Bonding Capacity Letter

Liberty Mutual Surety
SAFECO INSURANCE COMPANY OF AMERICA

1340 Treat Blvd., Suite 550
Walnut Creek, CA 94597
(925) 979-6730

March 8, 2019

Tracie Mueller, P.E.
City of Roseville
City Clerk Department
311 Vernon Street
Roseville, CA 95678

Re: Pleasant Grove Wastewater Treatment Plant Expansion Project
Pleasant Grove Wastewater Treatment Plant Energy Recovery Project

Ms. Mueller,

Liberty Mutual Company (Liberty), acts as surety for W.M. Lyles Co. in its contracting matters. Liberty is a major, national provider of contract surety bonds, is listed in the Federal Register as a surety acceptable for Federal projects, and is a licensed, admitted surety in all fifty United States. Liberty enjoys a Bests Guide rating of A (Excellent).

Alliant Insurance Service Inc. 9 E River Park Place East, Suite 310, Fresno, CA 93720 is the current agent. We currently extend to W.M. Lyles Co. bonding capacity in the $1,000,000,000 per project and $2,000,000,000 aggregate ranges. Current available capacity is $1,500,000,000. No claims have been made. Current rate is $4.00 per thousand.

Should you select W.M. Lyles Co. for the reference project, it is our present intention to provide the required performance and payment bonds, subject to our normal underwriting guidelines. This includes, but is not limited to a review of contract terms, conditions and bond forms.

Should you have any questions, please do not hesitate to contact our office.

Sincerely,
LIBERTY MUTUAL INSURANCE COMPANY

Steven P. Edwards
Attorney in Fact

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

Civil Code § 1189

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 Fresno)

On March 8, 2019, before me, Bonnie Gonzalez, Notary Public, personally appeared Steven P. Edwards, who proved to me on the basis of satisfactory evidence to be the person~~(s)~~ whose name~~(s)~~ is~~/are~~ subscribed to the within instrument and acknowledged to me that he~~/she/they~~ executed the same in his~~/her/their~~ authorized capacity~~(ies)~~, and that by his~~/her/their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ 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.

BONNIE GONZALEZ
NOTARY PUBLIC - CALIFORNIA
COMMISSION # 2202238
FRESNO COUNTY
My Comm. Exp. July 12, 2021

(Seal)

Signature: Bonnie Gonzalez
Bonnie Gonzalez, Notary Public

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: 8198004-984971

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Cody Lyman, Ralph B Busch III, John C Day, Steven P Edwards, Lyn Genito, Bonnie Gonzalez

all of the city of Fresno state of California each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 20th day of November, 2018.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: _____
David M Carey, Assistant Secretary

State of PENNSYLVANIA
County of MONTGOMERY ss

On this 20th day of November, 2018 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2021
Member, Pennsylvania Association of Notaries

By: _____
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows.

ARTICLE IV – OFFICERS: Section 12. Power of Attorney.
Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts: Section 5. Surety Bonds and Undertakings.
Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 8 day of March 2019

By: _____
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

EXHIBIT B

CONTRACTOR'S TECHNICAL BID PROPOSAL DATED JULY 29, 2019
(excluding Sections 7 through 11 and the appendices)

Pleasant Grove Wastewater Treatment Plant Expansion Project



REQUEST FOR PROPOSAL

PLEASANT GROVE WASTEWATER TREATMENT PLANT EXPANSION PROJECT

CITY OF ROSEVILLE

JULY 29, 2019

CITY OF ROSEVILLE CALIFORNIA

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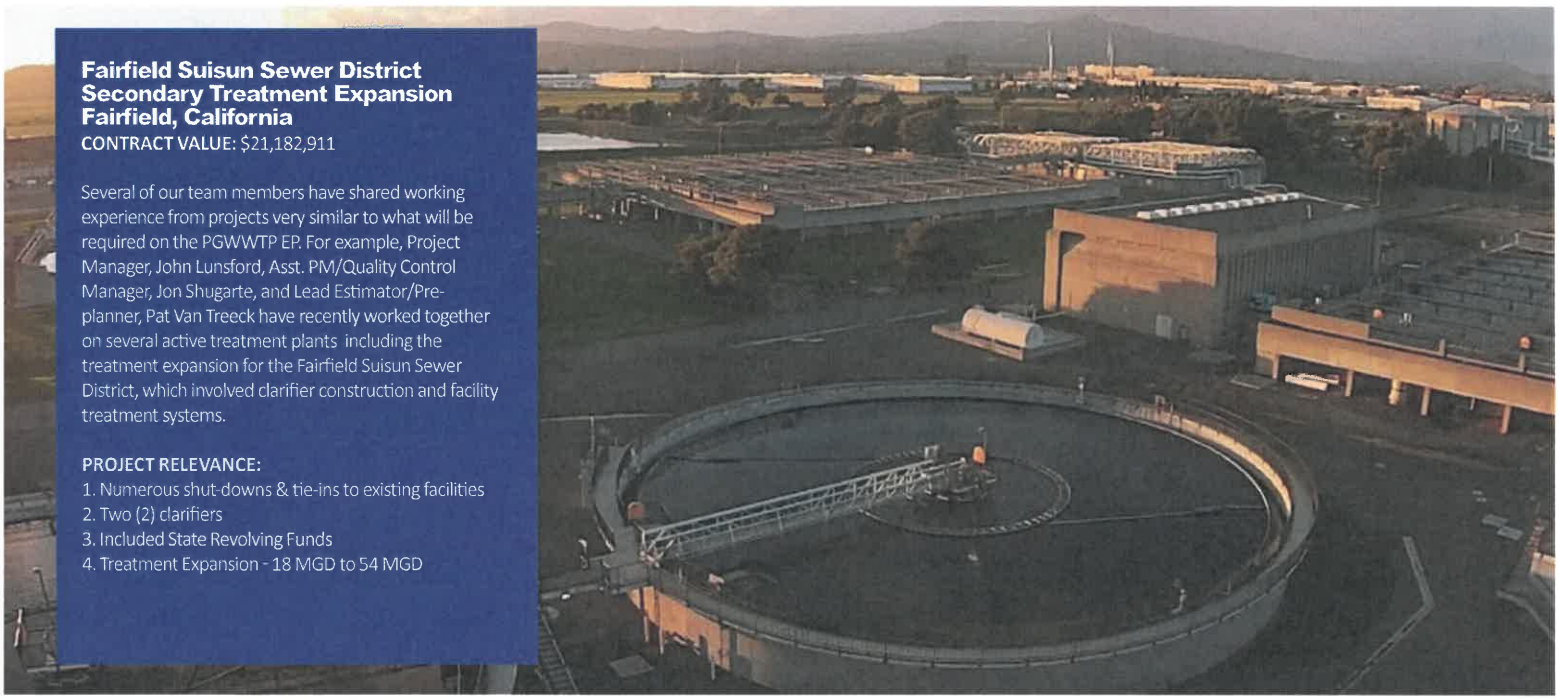
VOLUME TWO - PRICE PROPOSAL

GMP Cost Proposal

Fairfield Suisun Sewer District Secondary Treatment Expansion Fairfield, California
CONTRACT VALUE: $21,182,911

Several of our team members have shared working experience from projects very similar to what will be required on the PGWWTP EP. For example, Project Manager, John Lunsford, Asst. PM/Quality Control Manager, Jon Shugarte, and Lead Estimator/Pre-planner, Pat Van Treeck have recently worked together on several active treatment plants including the treatment expansion for the Fairfield Suisun Sewer District, which involved clarifier construction and facility treatment systems.

PROJECT RELEVANCE:
1. Numerous shut-downs & tie-ins to existing facilities
2. Two (2) clarifiers
3. Included State Revolving Funds
4. Treatment Expansion - 18 MGD to 54 MGD



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Northern Division Office
3925 Progress Drive
Rocklin, CA 95765
Telephone (916) 375-1833
Fax (916) 375-1848

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July 29, 2019

City of Roseville
City Clerk's Office
311 Vernon Street
Roseville, CA 95678
Attn: Tracie Mueller, P.E.
Environmental Utilities-Engineering

Re: Request for Bid Proposal (RFBP), For Design-Assist and Construction of Pleasant Grove Wastewater Treatment Plant Expansion Project

Dear Ms. Mueller:

W. M. Lyles Co. (Lyles) is pleased to submit this response to the above referenced RFBP issued by the City of Roseville (City), Environmental Utilities-Engineering Department, as amended through Addendum No. 5. The Expansion Project (EP) is an integral part of the City's plan to restore the Pleasant Grove Wastewater Treatment Plant (PGWWTP) to its original design capacity of 12 million gallons per day in order to support current and future growth within the facility's service area. In support of that plan, Lyles offers the following:

The Right Team: Lyles currently operates three construction divisions throughout the State of California. While our size provides us with the capacity and resources needed to build even the most challenging of projects, the real source of our strength lies within our people. To capitalize on this, we maintain offices in five strategic locations between Rocklin and Temecula that are staffed by local personnel who can provide the highest quality of service to our clients. The key personnel that will be assigned to the EP: Joe Lawrence, John Lunsford, Jon Shugarte, and Tony Mueller; are all members of our Rocklin, CA office which is located less than 10 miles from the PGWWTP. They also live in the surrounding community which means they will be invested in the EP on both a professional and personal level. Please see Section Four for additional information regarding our team.

The Strongest Partners: At Lyles, we understand the importance of strong partnerships and the value that they bring to a project. We also understand the complexity inherent in the electrical and instrumentation scopes of work associated with modern wastewater treatment facilities. For these reasons, we have strategically partnered with Wade Johnson and his team at San Joaquin Electric, Inc. to provide electrical services, and Tesco Controls, Inc. to provide integration services for the EP. Our relationships with both Wade and Tesco are built on more than 20 years of shared success and we consider these relationships to be among our best.

The Best Value: Value is often defined as the "importance" of something. With respect to the EP, the City has identified three goals as having "importance": budget, schedule, and stakeholders' needs. As construction professionals, we strive to excel in these areas on a daily basis, but as ratepayers and members of the community, our goals will be uniquely and

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Northern Division Office
3925 Progress Drive
Rocklin, CA 95765
Telephone (916) 375-1833
Fax (916) 375-1848

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uniformly aligned with the City's for the EP. This alignment will result in a "project first" mentality wherein collaboration and cooperation towards achieving the project goals will be given the highest priority, resulting in the greatest value for the City and the community at large.

We look forward to the opportunity to share more details about our team and our approach to this project. In the meantime, please contact us should you have any questions regarding the content provided. **On behalf of our entire team, we would like to thank you for the opportunity to present our Proposal for this exciting project.**

W. M. LYLES CO.

By:_____
Joseph B. Lawrence
Assistant Vice President, Division Manager

Acknowledgement of Addenda:
Addendum No. 1 – June 17, 2019
Addendum No. 2 – June 26, 2019
Addendum No. 3 – July 3, 2019
Addendum No. 4 – July 12, 2019
Addendum No. 5 – July 22, 2019

IMPORTANT

06/17/19

TO: Proposers

FROM: Tracie R. Mueller, Senior Engineer, Environmental Utilities Dept. TRM

RE: RFP 08-052 Design-Assist and Construction of Pleasant Grove Wastewater Treatment Plant Expansion Project

***************ADDENDUM ONE**************

Please note the following revisions:

1. **REVISION TO VOLUME 1 of 4: REQUEST FOR BID PROPOSAL (RFBP)**

   REPLACE the Pre-Qualified Contractor table included on Page 1 with the following:

Pre-Qualified Contractor	Contact Telephone	Contact Email Address
Auburn Constructors LLC	916-924-0344	dbaily@auburnconstructors.com
Balfour Beatty Infrastructure, Inc.	707-427-8900	ewr@balfourbeattyus.com
W.M. Lyles Company	559-441-1900	ndobids@wmlylesco.com
C. Overaa & Co	510-234-0926	bids@overaa.com
Western Water Constructors, Inc.	707-540-9640	bids@westernwater.com

2. **REVISION TO VOLUME 1 of 4: REQUEST FOR BID PROPOSAL (RFBP)**

   Within the Evaluation Category Table included in Section II Paragraph H, on Page 10 MOVE THE FOLLOWING ROW WITHIN THE TABLE FROM PART ONE TO PART TWO as these forms have cost information included on them:

Section IV.D - Bid Proposal Forms Submitted within **4 Calendar Days** after Deadline **to Receive Bid** Proposals	**Pass/Fail**

3. REVISION TO VOLUME 1 of 4: REQUEST FOR BID PROPOSAL (RFBP)

Revise the title of Section III.A on page 21 as shown in track changes below:

A. ~~SWCRB~~ SWRCB CWSRF PROGRAM REQUIREMENTS

4. REVISION TO VOLUME 1 of 4: REQUEST FOR BID PROPOSAL (RFBP)

REVISE Section IV.A fourth paragraph on page 28 as shown in track changes below:

The requirements for each part of the Bid Proposal are further described below. The Bid Proposal will be considered complete only if all of the Bid Proposal section items and Bid Proposal Forms found herein and other required attachment and appendices are included in the submittal and in the order requested. Proposers are required to order the sections and include the required attachments included in Section IV.C in the order described within Part 1 of the sealed Bid Proposal (Technical Proposal). The Bid Proposal Forms described and included in Section IV.D shall be submitted within four (4) calendar days of the deadline to receive Bid Proposals and shall be considered as Part ~~1~~ 2 of the Bid Proposal (~~Technical~~ GMP, Cost Information and Bid Proposal Guarantee). Proposers are required to include the Section IV.E pages including Attachments A, B and C located at the end of this RFBP within Part 2 of the sealed Bid Proposal (GMP, Cost Information and Bid Proposal Guarantee).

5. REVISION TO VOLUME 1 of 4: REQUEST FOR BID PROPOSAL (RFBP)

ADD the following paragraph to Section III.A.8 on page 23 as shown in track changes below:

8. Disadvantaged Business Enterprises (40 CFR Part 33).

   a. The Contractor is required to seek and encouraged to utilize Disadvantage Business Enterprise (DBE) businesses and to comply with related requirements included in Appendix B, GUIDELINES FOR CLEAN WATER STATE REVOLVING FUND PROGRAM DBE REQUIREMENTS.

   b. The Contractor shall comply with the requirements of USEPA's Program for Utilization of Small, Minority and Women's Business Enterprises. The DBE rule can be accessed at www.epa.gov/osbp.

   c. The Contractor shall comply with 40 CFR Section 33.301, and submit and retain and submit all records documenting compliance with the six good faith efforts.

   ~~c.~~d. The Contractor shall create and maintain a Bidders List per the ADMINSTRATION REQUIREMENT section of APPENDIX B that lists all firms that bid or quote on the project including both DBEs and non-DBE business submit to the City within three calendar days of the Notice of Intent to Award. Refer to APPENDIX B for details related to the Bidders List.

   ~~d.~~e. The Contractor shall provide the City the DBE utilization report (Form DBE UR-334 included in Appendix B) each year no later than October 1st.

   ~~e.~~f. Refer to Appendix B for additional information on DBE Requirements, Section IV.C, BID PROPOSAL FORM ATTACHMENTS TO BE INCLUDED IN SEALED ENVELOPE ONE, and Section IV.D, BID PROPOSAL FORMS AND INFORMATION TO BE SUBMITTED WITHIN FOUR (4) CALENDAR DAYS AFTER DEADLINE TO RECEIVE PROPOSALS.

6. REVISION TO VOLUME 1 of 4: REQUEST FOR BID PROPOSAL (RFBP)

REPLACE Section IV Paragraph E.1.a.2) from the MANDATORY CITY REQUIRED ALLOWANCES, on Page 73 with the following:

2) Contractor removal of the liquid and solid content from, and cleaning of the WAS Holding Tanks and the WAS/RAS Wet Well, dewatering of the material removed from the WAS Holding Tanks and the WAS/RAS Wet Well, and transportation and disposal of the dried sludge shall be included in the GMP. However, allowance for unforeseen conditions associated with Contractor activities per Specification Section 02 00 03, TANK AND WET WELL CLEANING is a mandatory City required allowance. The allowance amount for this item is thirty thousand dollars ($30,000.00).

ADD the following as Section IV Paragraph E.1.a.3) as a MANDATORY CITY REQUIRED ALLOWANCES:

3) Allowance for miscellaneous office equipment and furnishings per Specification Section 01 52 00, CONSTRUCTION FACILITIES is a mandatory City required allowance. This allowance shall only be used for the purchase price and any associated tax for items not specified in Section 01 52 00. The allowance amount for this item is fifteen thousand dollars ($15,000.00).

Note that replacement pages for Section IV.E will be provided in Addendum 2 as these pages have to be submitted within the Part 2 Sealed Bid Proposal.

7. REVISION TO VOLUME 2 of 4: AGREEMENT

Within ARTICLE 1 – DEFINTIONS on page 4 ADD the following bullet to the definition of "Contract Documents" as shown in the track changes below:

Contract Documents. The "Contract Documents" shall consist of the following documents and all documents incorporated therein:

- Request for Bid Proposal (including the appendices)
- Agreement (including exhibits A-L attached thereto);
- General Requirements (Division 1);
- Technical Specifications (Divisions 2 through 46);
- Appendices included with Technical Specifications;
- Contract Drawings, prepared by Engineer;
- Addenda issued during the RFBP period; and
- Permits from other agencies specifically required for the performance of the Work as may be required by law.
- City of Roseville's most current version (and Amendments to the current version) of Construction Standards and Design Standards
- Other Referenced Standard Specifications;
- Other Referenced Standard Plans

8. REVISION TO VOLUME 2 of 4: AGREEMENT

Within ARTICLE 1 – DEFINTIONS on page 9 EDIT the Exhibit reference within the definition of "Liquidated Damages" as shown in the track changes below:

Liquidated Damages. The amount of dollars assessed for each and every calendar day required to complete the Agreement in excess of the Contract Time. See Exhibit ~~D~~F, COMPLETION TIMES AND LIQUIDATED DAMAGES.

9. REVISION TO VOLUME 3 of 4: SPECIFICATIONS

In the TABLE OF CONTENTS, ADD the following section:

01 52 00 Construction Facilities

10. REVISION TO VOLUME 3 of 4: SPECIFICATIONS

In Section 01 12 16: Work Sequence, ADD the following paragraph after 4.01.C:

D. The Primary Clarifiers are to be constructed within the boundary of the existing Effluent Storage Basin No. 3. This storage basin is used on a seasonal basis and may contain water at the time of construction. The CONTRACTOR shall provide temporary means for dewatering and protecting the worksite until the necessary earthwork has been completed at the beginning of Phase A.

11. REVISION TO VOLUME 3 of 4: SPECIFICATIONS

In Section 25 06 30: Schedule of Instruments, ADD the following under the category "Flow switches (thermal type):" on page 9:

24-FSLX-158	Seal water to Primary Clarifier 1 Sludge Pump 1	0-5	gpm
24-FSLX-178	Seal water to Primary Clarifier 1 Sludge Pump 2	0-5	gpm
24-FSLX-258	Seal water to Primary Clarifier 2 Sludge Pump 1	0-5	gpm
24-FSLX-278	Seal water to Primary Clarifier 2 Sludge Pump 2	0-5	gpm
24-FSLX-358	Seal water to Primary Clarifier 3 Sludge Pump 1	0-5	gpm
24-FSLX-378	Seal water to Primary Clarifier 3 Sludge Pump 2	0-5	gpm
24-FSLX-458	Seal water to Primary Clarifier 4 Sludge Pump 1	0-5	gpm
24-FSLX-478	Seal water to Primary Clarifier 4 Sludge Pump 2	0-5	gpm

12. REVISION TO VOLUME 3 of 4: SPECIFICATIONS

In Section 25 06 30: Schedule of Instruments, on pages 9 and 10 REPLACE the flow switch numbers under the category "Flow switches (thermal type)" for the "Seal water to the Digested Sludge Pumps 1, 2 and 3" to the following:

84-FSLx-908
84-FSLx-938
84-FSLx-968

13. REVISION TO VOLUME 3 of 4: SPECIFICATIONS

In Section 25 06 30: Schedule of Instruments on page 14, under the category "Analytical Instruments" - Microwave Density, 74-DITx-030 WAS Density, Comments, CHANGE 3" to 6". Note that Sheet 16-M-005 shows the location of this meter.

14. REVISION TO VOLUME 3 of 4: SPECIFICATIONS

In Section 40 91 13.33: Density Instruments, under Paragraph 2.03 SPARE PARTS, CHANGE paragraph A. as follows:

A. Provide one complete spare unit for each unit provided, including one 6" PS meter, one 6" WAS meter, and one 3" TWAS meter.

15. REVISION TO VOLUME 4 of 4: DRAWINGS

On Sheet 00-G-004B: Piping Schedule, CHANGE test pressure for CENTRATE piping (B/C HDPE) from 150 PSI to 50 PSI.

16. REVISION TO VOLUME 4 of 4: DRAWINGS

On Sheet 00-G-004B: Piping Schedule, ADD the following:

ABBREV	FIL
SYSTEM	FILTRATE
SIZE	ALL
SERVICE	B/C
FLOW	G
PIPE TYPE	HDPE
MATERIAL	HDPE
LINING	-
VALVE SYSTEM	B
TEST PRESSURE	50
TEST MEDIUM	W
ALLOWABLE LEAKAGE	EQUATION A
TEST DURATION	4 HRS

17. REVISION TO VOLUME 4 of 4: DRAWINGS

On Sheet 00-G-004B: Piping Schedule, ADD the following:

ABBREV	DP
SYSTEM	PUMPED DRAINAGE
SIZE	> OR = 3"
SERVICE	E/S
FLOW	P
PIPE TYPE	DIPF
MATERIAL	DI
LINING	CE
VALVE SYSTEM	B
TEST PRESSURE	150
TEST MEDIUM	W
ALLOWABLE LEAKAGE	NONE
TEST DURATION	4 HRS

18. REVISION TO VOLUME 4 of 4: DRAWINGS

On Sheet 00-CP-019: CIVIL YARD PIPING, GRID G1 thru G3, DELETE the callouts shown on the right side of the drawing referring to; Connecting to (E) Natural Gas Main, Install 2" Valve, and (N) Gas Meter and 2" Polyethylene Natural Gas Line.

19. REVISION TO VOLUME 4 of 4: DRAWINGS

On Sheet 20-M-003: PRIMARY CLARIFIER PUMPING GALLERY – INTERNAL PLAN – WEST, GRID C3, adjacent to downstream side of density meter, ADD 8-inch long 6" PS spool, flanged at meter end and grooved end coupling at opposite end.

20. REVISION TO VOLUME 4 of 4: DRAWINGS

On Sheet 20-M-010: PRIMARY CLARIFIER PUMPING GALLERY – SECTION 2, GRID C3, adjacent to downstream side of density meter, ADD 8-inch long 6" PS spool, flanged at meter end and grooved end coupling at opposite end.

21. REVISION TO VOLUME 4 of 4: DRAWINGS

On Sheet 20-M-011: PRIMARY CLARIFIER PUMPING GALLERY SECTION 3, GRID F2, CHANGE "T33S" pipe support on 12" RSG to "T10S" pipe support.

22. REVISION TO VOLUME 4 of 4: DRAWINGS

On Sheet 80-M-002: DIGESTERS and DIGESTER CONTROL BUILDING – INTERIOR PLAN, GRIDS D2, AND D4, CHANGE call out for "8" PS/PSC" to "6" PS/PSC" in four places.

23. REVISION TO VOLUME 4 of 4: DRAWINGS

On Sheet 80-M-009: DIGESTER CONTROL BUILDING PLAN – NORTH, GRIDS B1, B4, AND C0, CHANGE call out for "8" PS/PSC" to "6" PS/PSC" in four places.

24. REVISION TO VOLUME 4 of 4: DRAWINGS

On Sheet 80-M-010: DIGESTER CONTROL BUILDING PLAN – SOUTH, GRIDS B1 AND B4, CHANGE call out for "8" PS/PSC" to "6" PS/PSC" in three places.

25. REVISION TO VOLUME 4 of 4: DRAWINGS

Within Sheet 00-CP-023 Note 3, Sheet 00-CP-024 Note 4 and Sheet 00-CP24A Note 3 add the following sentence to the end of the respective note:

Record Drawings Y-18 and Y-19 reference Utility Trench Sections F, I, J and K on Sheet Y-49; however Sheet Y-49 is not available so refer to the Utility Trench Sections on Sheets 00-CP-030 and 00-CP-032.

26. EXHIBIT 1 – NEW SPECIFICATION SECTION 01 52 00: CONSTRUCTION FACILITIES

ADD Section 01 52 00: CONSTRUCTION FACILITIES, which is included as Exhibit 1 to this Addendum, to VOLUME 3 of 4: SPECIFICATIONS.

27. EXHIBIT 2 - PRE-PROPOSAL MEETING AND SITE WALK PRESENTATION SLIDES, SIGN-IN SHEET, and MAP HANDOUT

The Pre-Proposal Meeting and Site Walk sign-in sheets, presentation slides, and map handout are included in Exhibit 2.

28. PRE-PROPOSAL MEETING AND SITE WALK STATEMENTS AND RESPONSES TO QUESTIONS

General statements made by the City and questions from the Pre-Proposal Meeting and Site Walk with responses are included below:

Question 1: In terms of the SRF funding, repayments from the SWRCB is running about 4 to 5 months. Does the Contractor need to have to procure financing to cover this potential payment gap?

Response: The Contractor will not have to finance as the City of Roseville will provide funding as needed to cover in gaps presented by SRF payments. Any delays with SRF funding repayment should not affect the Contractor.

Question 2: Can you please clarify the Table for Proposed Hourly Scoring? How is it summed up?

Response: Actual hours should not be considered in this scoring just the rates. The City is interested in the positions listed as well as the associated hourly rate. Repeat rates are not to be included. The City will clarify the On-Site Management and Administrative Labor table and positions required in a future addendum.

Question 3: What do you anticipate happening in the 90 day period of Design Assist?

Response: We do not anticipate breaking ground within the 90 day period, however, the Contractor would still be able to mobilize and order materials. Installation of the construction trailers and associated utilities could occur in this 90 day period. Proposers should include this 90 in their schedule but note that based on how the design assist process goes in this Pre-Construction phase, the construction work may begin sooner if agreed to.

Question 4: Is there any soil for fill available on site?

Response: Just the strip of soil within the area of the primary clarifiers is available as fill. The Project grading plan do show the use of this soil. Note that this soil is not compacted, and imported soils is required.

Question 5: Will the presentation slides be available to us?

Answer: Yes, the slides will be posted to Public Purchase, along with the questions from today with Addendum 1.

Please include a signed copy of this addendum with your proposal.

I acknowledge receipt of Addendum One

Name Joseph B. Lawrence, Asst. Vice President

Signature _____

Company W. M. Lyles Co. Date July 29, 2019

IMPORTANT

06/26/19

TO: Proposers

FROM: Tracie R. Mueller, Senior Engineer, Environmental Utilities Dept. TRM

RE: RFP 08-052 Design-Assist and Construction of Pleasant Grove Wastewater Treatment Plant Expansion Project

***************ADDENDUM TWO*************

Please note the following revisions:

1. **REVISION TO VOLUME 1 of 4: REQUEST FOR BID PROPOSAL (RFBP)**

   Within the Pre-Qualified Contractors Table on page 1, REVISE Auburn Constructors LLC contact email address as shown below:

Pre-Qualified Contractor	Contact Telephone	Contact Email Address
Auburn Constructors LLC	916-924-0344	dbailey@auburnconstructors.com
Balfour Beatty Infrastructure, Inc.	707-427-8900	ewr@balfourbeattyus.com
Kiewit Infrastructure West Company	707-439-7300	ncestimating@kiewit.com
Flatiron West, Inc.	707-742-6053	lisimon@flatironcorp.com
Gateway Pacific Contractors, Inc.	916-665-4100	bids@gatewaypacific.com
W.M. Lyles Company	559-441-1900	jlawrence@wmlylesco.com

2. **REVISION TO VOLUME 1 of 4: REQUEST FOR BID PROPOSAL (RFBP)**

   REPLACE the Evaluation Category Part Two scoring formulas in Section II.H on page 10 with the formulas shown below:

   The Part Two scoring will be based on the following formulas:

   - Total Proposed GMP Score =
     - Lowest GMP = 40 Points
     - GMP within 2% of Lowest GMP = 40 Points
     - GMP more than 2% and less than or equal to 4% of Lowest GMP = 30 points
     - GMP more than 4% and less than or equal to 6% of Lowest GMP = 20 points
     - GMP more than 6% and less than or equal to 8% of Lowest GMP = 10 points
     - GMP greater than 8% of Lowest GMP = 0 Points

- Total On-Site Management & Administration Positions Hourly Rate Score = Maximum Points x Lowest Average Hourly Rate / Proposer's Average Hourly Rate
- Proposed Total Fee Mark-Up for General Overhead & Profit Score = Maximum Points x Lowest Fee / Proposer's Fee
- Proposed Shared Savings = Maximum Points x Proposer's % to Owner / Highest % to Owner
- Self-Performance of Work Score = Maximum Points x Proposer's Self-Performance / Highest Self-Performance

3. REVISION TO VOLUME 1 of 4: REQUEST FOR BID PROPOSAL (RFBP)

REVISE the second paragraph of Section II.O, BID PROPOSAL SECURITY on page 13 as shown in track changes below:

The Bid Proposal guarantees of the ~~three~~ two highest ranked Proposers will be retained until the Agreement is signed, evidence of insurance provided, and satisfactory bonds furnished by one of the two~~hree~~ highest ranked Proposers or other disposition made thereof. The Bid Proposal guarantees of all Proposers except the two~~hree~~ highest ranked Bid Proposals will be returned within three~~4~~ months after the Bid Proposals are due. If all Bid Proposals are rejected and no award is made, all Bid Proposal guarantees will be returned within ten (10) calendar days of the decision by the City not to award the Project.

4. REVISION TO VOLUME 1 of 4: REQUEST FOR BID PROPOSAL (RFBP)

At the end of Section III.A.1 on page 21 ADD subparagraphs "a." and "b." as shown below:

a. The Contractor shall comply with all record keeping and reporting requirements under the Clean Water Act, including any reports required by a Federal agency or the Finance Authority such as performance indicators of program deliverables, information on costs, and project progress. As part of this requirement, the successful Contractor will be required to provide certifications and documentation for AIS compliance. A sample AIS Compliance Certification form is provided in Appendix D. AIS Compliance Certification forms shall be collected from suppliers, fabricators manufacturers and processors to certify that each step in the process was domestically performed, and included in product submittals to the City. AIS Compliance Certification forms and other related AIS documentation such as a De Minimis Waivers (See Appendix C), receipts and/or invoices shall be maintained by the Contractor on the Project Site and shall be shared with City, SWRCB and EPA staff if requested during an audit. Additional documentation may be needed from the Contractor if the Compliance Certification forms and other documents are lacking important information.

b. By submitting a sealed bid proposal, the Proposer acknowledges to and for the benefit of the City and the State of California that it understands the goods and services for this Project are likely being funded with monies made available by the Clean Water State Revolving Fund that have statutory requirements commonly known as "American Iron and Steel;" that requires all of the iron and steel products to be used in the Project to be produced in the United States ("AIS Requirement") including iron and steel products provided by the Contactor pursuant to this Agreement. The Proposer hereby represents and warrants to and for the benefit of the City and the State that (a) the Contractor has reviewed and understands the AIS Requirement, (b) all of the iron and steel products used in the Project will be and/or have been produced in the United States in a manner that complies with the AIS Requirement, unless a waiver of the requirement is approved, and (c) the Contractor will provide any further verified information, certification or assurance of compliance with this paragraph, or information necessary to support a waiver of the American Iron and Steel Requirement, as may be requested by the City or the State. Notwithstanding any other provision of the Project Agreement, any failure to comply with this paragraph by the Contractor shall permit the Purchaser or State to recover as damages against the Contractor any loss, expense, or cost (including without limitation attorney's fees) incurred by the City or State resulting from any such failure (including without limitation any impairment or loss of funding, whether in whole or in part, from the State or any damages owed to the State by the Purchaser).

5. REVISION TO VOLUME 1 of 4: REQUEST FOR BID PROPOSAL (RFBP)

REPLACE Section IV.E pages 73 through 82 with Addendum 2 pages 73 through 82 included in Exhibit 1 to this addendum. Changes to these pages are shown in track changes and include the Addendum 1 changes that were made to these pages.

6. REVISION TO VOLUME 1 of 4: REQUEST FOR BID PROPOSAL (RFBP)

Add the AIS Compliance Certification document included in Exhibit 2 of this addendum as Appendix D of the RFBP and add "D. AIS Compliance Certification" to the Volume 1 – Request for Bid proposal Table of Contents under Appendices on page ii.

7. REVISION TO VOLUME 2 of 4: AGREEMENT

Within ARTICLE 7 – CONTRACTOR on page 23, DELETE paragraph 7.5.4.1 related to Skilled and Trained Workforce Reporting in its entirety.

8. REVISION TO VOLUME 2 of 4: AGREEMENT

Within ARTICLE 12 – PAYMENT AND COMPLETION, paragraph 12.9.K on page 53, EDIT the text as shown in track changes below:

K. Provisions of law that enable or require the City to withhold such payments in whole or in part, including, but not limited to California Public Contract Code, ~~section 2602 regarding skilled and trained workforce reporting.~~

9. REVISION TO VOLUME 2 of 4: AGREEMENT

Within ARTICLE 13 – INSURANCE AND INDEMNIFICATION, paragraph 13.1.1.F on page 59, EDIT the text as shown in track changes below:

F. Umbrella Policy – The Contractor may use an umbrella or excess policy to meet the limits requirement of Article ~~13.1.1.b(1).~~13.1.1.B, and subcontractors may use an umbrella or excess policy to meet the limit of requirements of Article 13.1.1.C. However, any such umbrella/excess policy must be approved by the City and maintain an A.M. Best Rating of no less than A:VII.

10. REVISION TO VOLUME 2 of 4: AGREEMENT

Within ARTICLE 13 – INSURANCE AND INDEMNIFICATION, EDIT paragraph 13.1.1.C on page 58 and add subparagraph "1" as shown in track changes below:

C. Minimum Amount of Coverage for all Listed Subcontractors include in Exhibit E - The bodily injury, personal injury and property damage liability of the Commercial General Liability insurance shall provide coverage in the following limits of liability: $5,000,000 on account of any one occurrence for bodily injury and property damage, $5,000,000 personal and advertising injury limit with an annual general aggregate limit of not less than $10,000,000, and $5,000,000 products and completed operations aggregate, combined single limit. The Automobile Liability insurance policy shall provide minimum limits of $5,000,000 per accident as a combined single limit arising out of the ownership, maintenance, or use of any owned or non-owned vehicles. These minimum amounts of insurance coverage do not preclude the Contractor from requiring higher limits or additional insurance coverage as it deems necessary.

1. Minimum Amount of Coverage for Subcontractors NOT include in Exhibit E - The bodily injury, personal injury and property damage liability of the Commercial General Liability insurance shall provide coverage in the following limits of liability: $2,000,000 on account of any one occurrence for bodily injury and property damage, $5,000,000 personal and advertising injury limit with an annual general aggregate limit of not less than $10,000,000, and $5,000,000 products and completed operations aggregate, combined single limit. The Automobile Liability insurance policy shall provide minimum limits of $5,000,000 per accident as a combined single limit arising out of the ownership, maintenance, or use of any owned or non-owned vehicles. These minimum amounts of insurance coverage do not preclude the Contractor from requiring higher limits or additional insurance coverage as it deems necessary.

11. REVISION TO VOLUME 2 of 4: AGREEMENT

Within ARTICLE 13 – INSURANCE AND INDEMNIFICATION, paragraph 13.1.4.E on page 61, EDIT the text as shown in track changes below:

E. All Other Perils - ~~$25,000~~ $100,000.

12. REVISION TO VOLUME 2 of 4: AGREEMENT

REPLACE Exhibit C with the revised Exhibit C included in Exhibit 3 of this addendum. The revisions are shown in track changes.

13. REVISION TO VOLUME 3 of 4: SPECIFICATIONS

In Section 28 23 00: Video Surveillance, REVISE paragraph 2.01.A.4.a. on page 2 as shown in track changes below:

a. Manufacturer: Razberi Technologies, Model: ServerSwitchIQ~~.~~, Part Number: SSIQ16-i7-24T.

14. REVISION TO VOLUME 3 OF 4: SPECIFICATIONS, EXHIBIT 4 – REVISED SPECIFICATION SECTION 33 05 16, PRECAST CONCRETE UTILITY STRUCTURES

REPLACE Specification Section 33 05 16: PRECAST CONCRETE UTILITY STRUCTURES with revised Specification Section 33 05 16 PRECAST CONCRET UTILITY STRUCTURES, which is included in Exhibit 4 to this Addendum.

15. REVISION TO VOLUME 4 OF 4: DRAWINGS, EXHIBIT 5 – REVISED DRAWING SHEET 00-CP-024A CIVIL YARD PIPING

REPLACE Sheet 00-CP-024A CIVIL YARD PIPING with revised Sheet 00-CP-024A included in Exhibit 5 to this Addendum.

16. REVISION TO VOLUME 4 OF 4: DRAWINGS, EXHIBIT 5 – REVISED DRAWING SHEET 00-E-053 DIGESTER AREA POWER CONDUIT SCHEDULE

REPLACE Sheet 00-E-053 DIGESTER AREA POWER CONDUIT SCHEDULE with revised Sheet 00-E-053 included in Exhibit 5 to this Addendum.

17. **REVISION TO VOLUME 4 OF 4: DRAWINGS, EXHIBIT 5 – REVISED DRAWING SHEET 00-E-057 DIGESTER AREA SIGNAL CONDUIT SCHEDULE 1 & 2**

    REPLACE Sheet 00-E-057 DIGESTER AREA SIGNAL CONDUIT SCHEDULE 1 & 2 with revised Sheet 00-E-057 included in Exhibit 5 to this Addendum.

18. **REVISION TO VOLUME 4 OF 4: DRAWINGS, EXHIBIT 5 – REVISED DRAWING SHEET 80-E-002 DIGESTER CONTROL BUILDING POWER AND SIGNAL PLAN - SOUTH**

    REPLACE Sheet 80-E-002 DIGESTER CONTROL BUILDING POWER AND SIGNAL PLAN - SOUTH with revised Sheet 80-E-002 included in Exhibit 5 to this Addendum.

19. **REVISION TO VOLUME 4 OF 4: DRAWINGS, EXHIBIT 5 – REVISED DRAWING SHEET 80-E-007 DIGESTER 2 POWER, LIGHTING AND SIGNAL PLAN**

    REPLACE Sheet 80-E-007 DIGESTER 2 POWER, LIGHTING, AND SIGNAL PLAN with revised Sheet 80-E-007 included in Exhibit 5 to this Addendum.

20. **REVISION TO VOLUME 4 OF 4: DRAWINGS, EXHIBIT 5 – REVISED DRAWING SHEET 80-E-008 DIGESTERS MOTOR CONTROL CENTER 81-MCCX-1000 SINGLE LINE DIAGRAM**

    REPLACE Sheet 80-E-008 DIGESTERS MOTOR CONTROL CENTER 81-MCCX-1000 SINGLE LINE DIAGRAM with revised Sheet 80-E-008 included in Exhibit 5 to this Addendum.

21. **REVISION TO VOLUME 4 OF 4: DRAWINGS, EXHIBIT 5 – REVISED DRAWING SHEET 80-E-010 DIGESTERS MOTOR CONTROL CENTER 81-MCCX-1000 ELEVATION**

    REPLACE Sheet 80-E-010 DIGESTERS MOTOR CONTROL CENTER 81-MCCX-1000 ELEVATION with revised Sheet 80-E-010 included in Exhibit 5 to this Addendum.

Please include a signed copy of this addendum with your proposal.

I acknowledge receipt of Addendum Two

Name Joseph B. Lawrence, Asst. Vice President

Signature

Company W. M. Lyles Co. Date July 29, 2019

IMPORTANT

07/03/19

TO: **Proposers**

FROM: **Tracie R. Mueller, Senior Engineer, Environmental Utilities Dept.** TRM

RE: RFP 08-052 Design-Assist and Construction of Pleasant Grove Wastewater Treatment Plant Expansion Project

***************ADDENDUM THREE *************

Please note the following revisions:

1. **REVISION TO VOLUME 1 of 4: REQUEST FOR BID PROPOSAL (RFBP)**

   REPLACE the Pre-Qualified Contractors Table on page 1, with the one below (the listed pre-qualified contractors issued in Addendum 2 was incorrect, the table below correctly shows revisions intended to be made to this table as part of Addendum 1 and Addendum 2):

Pre-Qualified General Contractor	Contact Telephone	Contact Email Address
Auburn Constructors LLC	916-924-0344	dbailey@auburnconstructors.com
Balfour Beatty Infrastructure, Inc.	707-427-8900	ewr@balfourbeattyus.com
~~Kiewit Infrastructure West Company~~	~~707-439-7300~~	~~neestimating@kiewit.com~~
W.M. Lyles Company	559-441-1900	jlawrence@wmlylesco.com
C. Overaa & Co	510-234-0926	larrye@overaa.com
Western Water Constructors, Inc.	707-540-9640	josh.mcgarva@westernwater.com

2. **REVISION TO VOLUME 1 of 4: REQUEST FOR BID PROPOSAL (RFBP)**

   REVISE the second paragraph on page 2 of the RFBP as shown below:

A total of one (1) hard bound original and seven (7) bound hard copies and an electronic (PDF) copy on a USB flash drive (total of 2 flash drives) for both parts of the Bid Proposal shall be submitted no later than **3:00 PM on ~~July 19, 2019~~ July 29, 2019** to:

City of Roseville
City Clerk's Office
311 Vernon Street
Roseville, CA 95678
Re: Design-Assist and Construction of the
Pleasant Grove Wastewater Treatment Plant Expansion Project
Attention: Tracie Mueller, P.E., Environmental Utilities-Engineering

3. REVISION TO VOLUME 1 of 4: REQUEST FOR BID PROPOSAL (RFBP)

REVISE the Procurement Schedule within Section II.A on page 5 as shown below:

Procurement Schedule

Event	Date
Request for GMP Construction Bid Proposals sent to Invited Contractors	6/1/2019
Mandatory Pre-Proposal Meeting and Site Walk at 9:30 a.m.	6/12/2019
Last Day to Submit Questions	7/8/2019
City Responses to Written Questions	~~7/15/19~~ 7/22/19
Last Addendum Posting Date (if necessary)	~~7/15/19~~ 7/22/19
Bid Proposal Due Date at 3:00 p.m.	~~7/19/2019~~ 7/29/19
Possible Interviews with Proposers who submitted responsive Proposals	8/22/2019 – 8/29/2019
Anticipated Notification of Intent to Award	10/30/2019
Anticipated Award of Agreement by City Council	11/6/2019

4. REVISION TO VOLUME 1 of 4: REQUEST FOR BID PROPOSAL (RFBP), EXHIBIT 1 – REVISED RFBP ATTACHMENT 3 PAGE 44

REPLACE page 44 of the RFBP Attachment 3, PROPOSER'S SCHEDULE OF MAJOR EQUIPMENT AND MATERIAL SUPPLIERS with page 44 included in Exhibit 1 to this addendum.

5. REVISION TO VOLUME 2 of 4: AGREEMENT & ADDENDUM 2, ITEM 10

This addendum change shall replace Addendum 2, Item 10. Within ARTICLE 13 – INSURANCE AND INDEMNIFICATION, EDIT paragraph 13.1.1.C on page 58 and add subparagraph "1" as shown in track changes below:

C. Minimum Amount of Coverage for all Listed Subcontractors included in Exhibit E - The bodily injury, personal injury and property damage liability of the Commercial General Liability insurance shall provide coverage in the following limits of liability: $5,000,000 on account of any one occurrence for bodily injury and property damage, $5,000,000 personal and advertising injury limit with an annual general aggregate limit of not less than $10,000,000, and $5,000,000 products and completed operations aggregate, combined single limit. The Automobile Liability insurance policy shall provide minimum limits of $5,000,000 per accident as a combined single limit arising out of the ownership, maintenance, or use of any owned or non-owned vehicles. These minimum amounts of insurance coverage do not preclude the Contractor from requiring higher limits or additional insurance coverage as it deems necessary.

1. Minimum Amount of Coverage for Subcontractors NOT included in Exhibit E - The bodily injury, personal injury and property damage liability of the Commercial General Liability insurance shall provide coverage in the following limits of liability: $2,000,000 on account of any one occurrence for bodily injury and property damage, $2,000,000 personal and advertising injury limit with an annual general aggregate limit of not less than $4,000,000, and $2,000,000 products and completed operations aggregate, combined single limit. The Automobile Liability insurance policy shall provide minimum limits of $5,000,000 per accident as a combined single limit arising out of the ownership, maintenance, or use of any owned or non-owned vehicles. These minimum amounts of insurance coverage do not preclude the Contractor from requiring higher limits or additional insurance coverage as it deems necessary.

6. REVISION TO VOLUME 3 of 4: SPECIFICATIONS, EXHIBIT 2 – REVISED SPECIFICATION SECTION 22 13 43

REPLACE Specification Section 22 13 43: PACKAGED WET-WELL GRINDER PUMP STATION with revised Specification Section 22 13 43 PACKAGED WET-WELL GRINDER PUMP STATION, which is included in Exhibit 2 to this addendum.

7. REVISION TO VOLUME 3 OF 4: SPECIFICATIONS

On page 3 of Section 43 23 57 PROGRESSING CAVITY PUMPS within paragraph 2.01B for Pump Types, REPLACE “no equal” with “or equal”.

8. REVISION TO VOLUME 4 OF 4: DRAWINGS

On Sheet 00-E-052 THICKENER AREA POWER CONDUIT SCHEDULE, make the following changes:

- For conduit 74P-112A REVISE the “TO EQUIPMENT NUMBER” from "74-LCPx-920" to "74-LCPx-900".
- For conduits 74P-112B and 74P-112C REVISE the “FROM” from "74-LCPx-920" to "74-LCPx-900".

9. REVISION TO VOLUME 4 OF 4: DRAWINGS

On Sheet 00-E-056 THICKENER AREA SIGNAL CONDUIT SCHEDULE 1 & 2, for conduit 74S-142 REVISE the “TO EQ NO” from "74-LCSx-920" to "74-LCSx-900".

10. REVISION TO VOLUME 4 OF 4: DRAWINGS

On Sheet 70-E-008 CENTRATE WET WELL POWER, SIGNAL AND LIGHTING PLAN, REPLACE Note 1 in its entirety with the following:

"CONNECT 74-LCPx-900 to 71-MCCx-1000 LOCATED IN THE SOLIDS THICKENING BUILDING."

Please include a signed copy of this addendum with your proposal.

I acknowledge receipt of Addendum Three

Name Joseph B. Lawrence, Asst. Vice President

Signature _____

Company W. M. Lyles Co. Date July 29, 2019

IMPORTANT

07/12/19

TO: Proposers

FROM: Tracie R. Mueller, Senior Engineer, Environmental Utilities Dept. TRM

RE: RFP 08-052 Design-Assist and Construction of Pleasant Grove Wastewater Treatment Plant Expansion Project

********** ADDENDUM FOUR **********

Please note the following revisions:

1. REVISION TO VOLUME 1 of 4: REQUEST FOR BID PROPOSAL (RFBP)

REVISE Section II.H on page 11 within the first paragraph after the equations as shown below:

If City determines that a Proposer cannot be selected based solely on the Bid Proposals submitted, the top ranked Proposers submitting the most highly rated ~~technical~~ bid proposals may be invited for interviews with the selection committee. The Proposer's proposed Project Manager must be present at the interview; up to three others may attend at the discretion of the Proposer. After this process, the proposers will be ranked and notified. City staff will then enter into final negotiations with the highest ranked proposer. Following successful negotiations, a recommendation will be made to City Council to award the Agreement. In the event that negotiations are not successful, the City reserves the right to terminate negotiations and enter into negotiations with the next highest ranked Proposer.

2. REVISION TO VOLUME 2 of 4: AGREEMENT & ADDENDUM 3, ITEM 5

This addendum is a revision to text added as part of Addendum 4, Item 5. Within ARTICLE 13 – INSURANCE AND INDEMNIFICATION, EDIT paragraph 13.1.1.C.1 on page 58 as shown in track changes below:

1. Minimum Amount of Coverage for Subcontractors NOT included in Exhibit E - The bodily injury, personal injury and property damage liability of the Commercial General Liability insurance shall provide coverage in the following limits of liability: $2,000,000 on account of any one occurrence for bodily injury and property damage, $2,000,000 personal and advertising injury limit with an annual general aggregate limit of not less than $4,000,000, and $2,000,000 products and completed operations aggregate, combined single limit. The Automobile Liability insurance policy shall provide minimum limits of ~~$5,000,000~~ $1,000,000 per accident as a combined single limit arising out of the ownership, maintenance, or use of any owned or non-owned vehicles. These minimum amounts of insurance coverage do not preclude the Contractor from requiring higher limits or additional insurance coverage as it deems necessary.

3. REVISION TO VOLUME 2 of 4: AGREEMENT

Within ARTICLE 13 – INSURANCE AND INDEMNIFICATION, EDIT paragraph 13.1.4.C on page 60 as shown in track changes below:

C. Included Coverage – The above builder's risk insurance shall include the following coverages:

1) Including, but not by way of limitation, for all damages of loss to the Work and to appurtenances, to materials and equipment to be incorporated into the Project while the same are in transit, stored on or off the Site, to construction plant and temporary structures.
2) Such insurance shall cover, but shall not be limited to, the perils of fire, lightning, windstorm, hail, explosion, riot, riot attending a strike, civil commotion, smoke damage, damage by aircraft or vehicles, vandalism and malicious mischief, theft, collapse, and flood.
3) The policy shall cover the costs of debris removal, including demolition as may be made reasonably necessary by the application of any law, ordinance, or regulation.
4) Start-up & testing, and machinery breakdown including electrical arching which are very important coverages and usually have to be requested.
~~5) Consequential losses due to delay in completing the Work. The builder's risk insurance limit for consequential losses is $1,000,000.~~
~~6)~~5) The policy shall provide the City the right to occupy the premises without termination of the policy until Final Completion of the Project.

4. REVISION TO VOLUME 3 OF 4: SPECIFICATIONS

In Section 03 90 99 HYDROSTATIC AND PNEUMATIC TESTING OF CONCRETE STRUCTURES, REVISE paragraph 3.01.C.2.on page 3 as shown in track changes below:

2. The quantitative criteria for the hydrostatic test shall be ~~0.0125%~~ 0.05% volume per day.

5. REVISION TO VOLUME 3 OF 4: SPECIFICATIONS

In Section 28 23 00 VIDEO SURVEILLANCE, REVISE paragraph 2.02.A on page 3 as shown in track changes below:

A. ACCEPTABLE PRODUCTS:
1. Pelco (Schneider Electric) Spectra Dome HD system S5220-EG1
2. Equivalent Pelco
3. Equivalent Sony
4. Equivalent Axis
5. Equivalent Vivatek
6. Or equal.

6. REVISION TO VOLUME 4 OF 4: DRAWINGS, EXHIBIT 1

REPLACE Sheet 70-S-031 SOLIDS THICKENING BUILDING AND DIGESTER CONTROL BUILDING DETAILS with revised Sheet 70-S-031 included in Exhibit 1 to this addendum.

7. REVISION TO VOLUME 4 OF 4: DRAWINGS

On Sheet 80-S-001 DIGESTER OVERALL FOUNDATION PLAN, within grid B1, change dimensional callout from "2'-0"" to "2'-6" for the tank foundation.

8. **REVISION TO VOLUME 4 OF 4: DRAWINGS**

   On Sheet 80-S-010 DIGESTER ADDITIONAL STRUCTURAL NOTES, REPACE note XI.2 for TESTING with "ACCEPTANCE CRITERIA: 0.05% / 24-HR PERIOD FOR HYDROSTATIC, 0.1% / 24-HR PERIOD FOR PNEUMATIC."

9. **REVISION TO VOLUME 4 OF 4: DRAWINGS**

   On Sheet 80-S-023 DIGESTER NOTES AND DETAILS, within grid D1, REVISE callout for upper 4" DS from "EL.126.00" to "EL. 127.50."

10. **REVISION TO VOLUME 4 OF 4: DRAWINGS**

    On Sheet 80-S-023 DIGESTER NOTES AND DETAILS, at gridline D1, REVISE callout for SUPPORT ANCHORS AT 12" DG from "EL, 130.39" and "EL. 129.55" to "ELEVATION TO BE FIELD VERIFIED BASED ON MECHANICAL PIPING LAYOUT."

11. **REVISION TO VOLUME 4 OF 4: DRAWINGS**

    On Sheet 00-M-006 MECHANICAL DETAILS 6, TYPE 43 SUPPORT (T43S), in grid G1, REVISE callout from "TOP ROW ANCHORS ELEV= 130.39'" to "TOP ROW ANCHORS ELEVATION TO BE FIELD VERIFIED BASED ON MECHANICAL PIPING LAYOUT."

12. **REVISION TO VOLUME 4 OF 4: DRAWINGS**

    On Sheet 00-M-006 MECHANICAL DETAILS 6, TYPE 43 SUPPORT (T43S), in grid G2, REVISE callout from "BOTTOM ROW ANCHORS ELEV= 129.55'" to "BOTTOM ROW ANCHORS ELEVATION TO BE FIELD VERIFIED BASED ON MECHANICAL PIPING LAYOUT."

13. **REVISION TO VOLUME 4 OF 4: DRAWINGS**

    On Sheet 20-M-021 PRIMARY CLARIFIER HVAC AND ODOR CONTROL PLAN, SECTION A, REVISE the callouts on the ductwork shown inside Pumping Gallery (near C4 grid line), from "14" ⧅ FA" and "24" ⧅ FA" to "14" ⧅ BRANCH DUCT" and "24" ⧅ EXHAUST HEADER", respectively.

14. REVISION TO VOLUME 4 OF 4: DRAWINGS

On Sheet 00-E-074 ELECTRICAL SITE PLAN 3, REPLACE Note 1 with "CONNECT 74-LCPx-900 to 71-MCCx-1000 LOCATED IN THE SOLIDS THICKENING BUILDING."

15. REVISION TO VOLUME 4 OF 4: DRAWINGS

On Sheet 70-E-008 CENTRATE WET WELL POWER, SIGNAL AND LIGHTING PLAN, REPLACE Note 1 with "SIGNAL AND CONTROL CONDUITS TO 71-PLCP-100. POWER CONDUITS TO 71-MCCx-1000 IN SOLIDS THICKENING BUILDING."

16. REVISION TO VOLUME 4 OF 4: DRAWINGS

On Sheet 70-E-008 CENTRATE WET WELL POWER, SIGNAL AND LIGHTING PLAN, grid D2, REPLACE "TO CENTRIFUGE BUILDING" with "TO SOLIDS THICKENING BUILDING."

17. REVISION TO VOLUME 4 OF 4: DRAWINGS

On Sheet 00-I-003 PROCESS AND INSTRUMENTATION DIAGRAM SCADA NETWORK BLOCK DIAGRAM – 1, REPLACE Note 3 with "VIDEO CAMERA SHALL BE SONY MODEL SNC-DH180 OR EQUIVALENT SONY, AXIS, OR VIVATEK."

Please include a signed copy of this addendum with your proposal.

I acknowledge receipt of Addendum Four

Name Joseph B. Lawrence, Asst. Vice President

Signature _____

Company W. M. Lyles Co. Date July 29, 2019

IMPORTANT

07/22/19

TO: Proposers

FROM: Tracie R. Mueller, Senior Engineer, Environmental Utilities Dept.

RE: RFP 08-052 Design-Assist and Construction of Pleasant Grove Wastewater Treatment Plant Expansion Project

********** ADDENDUM FIVE **********

Please note the following revisions:

1. **REVISION TO VOLUME 4 OF 4: DRAWINGS**

   On Sheet 80-S-001 DIGESTER OVERALL FOUNDATION PLAN, within grid B1, change dimensional callout from "7'-0" WIDE FTG" to "7'-6" WIDE FTG".

2. **REVISION TO VOLUME 4 OF 4: DRAWINGS**

   On Sheet 80-S-011 DIGESTER OVERALL TANK SECTION, within grid B4, change dimensional callout from "7'-0"" to "7'-6"" and within grid C4, change note "INSIDE WALL FOOTING RADIUS = 41'-6" (MAX)" to "INSIDE WALL FOOTING RADIUS = 41'-0" (MAX)" and change "INSIDE WALL FOOTING RADIUS = 38'-11 3/16" EL = 97.03'" to "INSIDE WALL FOOTING RADIUS = 38'-5 3/16" EL =96.99'".

3. **REVISION TO VOLUME 4 OF 4: DRAWINGS**

   On Sheet 80-S-021 DIGESTER WALL AND FOOTING DETAILS, SECTION 1 – RADIAL SECTION OF WALL AND WALL FOOTING, within grid A4, change "39 - #5 CIRC BARS, SEE NOTE 4" to "41 - #5 CIRC BARS, SEE NOTE 4", and within grid B4, change dimensional callout from "7'-0"" to "7'-6"".

4. **REVISION TO VOLUME 4 OF 4: DRAWINGS**

   On Sheet 80-S-021 DIGESTER WALL AND FOOTING DETAILS, NOTES, Note 4, change the middle of the sentence that states "35 - #5 CIRC BARS" to "41 - #5 CIRC BARS".

5. **REVISION TO VOLUME 4 OF 4: DRAWINGS**

   On Sheet 80-S-023 DIGESTER NOTES AND DETAILS, DETAIL 1 - WALL ANCHOR AND WRAPPING REQUIRMENTS, in the table under "NUMBER OF WRAPS, 2nd LAYER", change "15" to "17", change "20" to "23", change "9" to "12 " and change "44" to "52".

6. **REVISION TO VOLUME 4 OF 4: DRAWINGS**

   On Sheet 80-S-023 DIGESTER NOTES AND DETAILS, DETAIL 1 - WALL ANCHOR AND WRAPPING REQUIRMENTS, in the table under "NUMBER OF WRAPS, 1st LAYER", change "10" to "12", change "17" to "20", change "14" to "15", change "15" to "16", change "18" to "19", change "20" to "22", change "26" at "13'-6" HEIGHT ABOVE TOP FOOTING" to "28", and change "257" to "269".

7. **REVISION TO VOLUME 4 OF 4: DRAWINGS**

   On Sheet 80-S-023 DIGESTER NOTES AND DETAILS, DETAIL 1 - WALL ANCHOR AND WRAPPING REQUIRMENTS, at the bottom of the table on the right hand side change "TOTAL WRAPS = 301" to "TOTAL WRAPS = 321".

Please include a signed copy of this addendum with your proposal.

I acknowledge receipt of Addendum Five

Name Joseph B. Lawrence, Asst. Vice President

Signature _____

Company W. M. Lyles Co. Date July 29, 2019



SECTION 1

PROJECT UNDERSTANDING

PROJECT UNDERSTANDING

DELIVERING A SUCCESSFUL PROJECT

The City of Roseville (City) has issued a Request for Bid Proposals (RFBP) to prequalified contractors for Design-Assist Services and Construction of the Pleasant Grove Wastewater Treatment Plant Expansion Project (EP or Project). A Best-Value selection process is being utilized by the City to emphasize its desire for a true partner in this Project; one that will provide the best overall benefit to the community.

The selected contractor will become an integral part of the Project Team which will include the City, Kennedy Jenks (KJ), and Brown & Caldwell. KJ will serve as the designer and B&C will serve as the construction manager. Additional stakeholders include those who will be concurrently involved in the Pleasant Grove Wastewater Treatment Plant Energy Recovery Project (ERP), which will be constructed concurrent with the EP; and the citizens of the City of Roseville.

PROJECT OVERVIEW

In 2003, the City of Roseville completed initial construction of the Pleasant Grove Wastewater Treatment Plant (PGWWTP). The facility was originally designed and permitted to treat 12 million gallons per day (MGD) but, due to higher than anticipated organic loading, has experienced a decrease in its effective treatment capacity from 12 MGD to 9.5 MGD. Aeration improvements completed in 2009, coupled with slowed population growth following the housing market collapse in 2008, have allowed the facility to meet the community's needs to date. However, a recent acceleration of growth within the facility's service area is driving change. The City's desire to prepare for this growth proactively has led to the development of the Expansion Project which will provide for construction of the following major improvements:

- Primary Clarifiers for the removal of biosolids upstream of the existing secondary process (Oxidation Ditches).
- Equipment gallery including pumps for the transfer of primary sludge and scum to the Digesters, and an overhead crane for maintenance.
- Odor Control Facility utilizing granular media to prevent foul odors from reaching sensitive receptors.
- Two Digesters which will reduce the volume of solids requiring disposal through anaerobic digestion and, as a byproduct, produce methane for beneficial use.
- Sludge Thickening Facilities which will support Digester operation by reducing the volume of water present in the Waste Activated Sludge.
- Chemical Feed Facilities for the addition of Ferric Chloride into the Digesters thereby limiting the production of hydrogen sulfide, a corrosive and dangerous gas.
- Civil, structural, mechanical, and electrical infrastructure as needed to support the aforementioned facilities.

These improvements will benefit the City by:

- Reducing the volume of biosolids requiring secondary treatment which will effectively increase the organic loading capacity of the PGWWTP.
- Reducing the volume of biosolids requiring dewatering and disposal. This will result in lower energy, chemical, and transportation costs for the City.
- Converting a portion of the biosolids into methane gas (biogas) which will be captured and transferred to the Energy Recovery Project and processed into a renewable fuel with multiple beneficial uses.
- Providing a new sustainable option for the disposal of high strength waste (fats, oils, and grease) generated by local businesses.
- Restoring the overall performance of the PGWWTP to accommodate the anticipated wastewater treatment demands through the year 2040.

PROJECT STRUCTURE

The selected contractor will enter into a Guaranteed Maximum Price Contract for the construction of the Expansion Project. Payment will be based on actual costs plus a fee for all craft labor, equipment, subcontracted work, and materials. Management and supervision duties will be paid for at an hourly rate.

Throughout the life of the Project, the selected contractor will participate in the Design-Assist process wherein all stakeholders will collaborate to adjust, modify, and finalize the design documents for the greater benefit of the Project. The contractor's participation in this process is inclusive of, but not limited to, the following:

- Constructability review of the Final Design Drawings and Specifications
- Value engineering to identify and quantify cost and time savings opportunities
- Risk review to identify and mitigate potential project disruptors
- Evaluation of alternatives generated by all project stakeholders
- Coordination with the PGWWTP ERP
- Compliance with funding agency requirements (SRF)
- Development and refinement of the Project Schedule for use in evaluation of the items listed above

The primary goal of the Design-Assist process is to increase the value of the Project through positive stakeholder relationships, improved constructability, mitigation of project risks, and reduction of the cost and time needed for construction. Our team has participated in more than 100 projects of similar nature with meaningful involvment prior to design completion. We have historically seen savings of up to 20% of project cost through this early participation. For example, our early involvement in the design of the Stockton Regional Wastewater Control Facility Modifications Progressive Design-Build Project provided the opportunity to establish a hydraulic grade line through the plant that reduced pumping of the liquid stream from 6 times to 3 times.

LYLES' APPROACH

Our company was founded on the principle of open dialogue based on trust, honesty, and integrity. These values shape our approach to business with our Clients, the Community, our Subcontractors, and our Suppliers. We manage projects through a proactive approach to problem-solving and by tightly controlling construction costs. As a general rule; we always have a plan, know how much it's going to cost, and quickly recognize if we need to modify our course.

We recognize that a commitment must be made to building relationships between all project stakeholders so that effective communication can be utilized to overcome any community, engineering, or constructability challenges that may arise. Our team has thoroughly reviewed and visited the site to acquaint ourselves with the local conditions, nature, and location of where the work will be performed. We have taken into account and addressed the challenges that have the potential to derail the project. Our solutions are reflected in our baseline CPM schedule for the Project, which can be found in Appendix C.

The Right Experience

Lyles constructed a new thickening and dewatering building and odor control system to replace the existing sludge handling systems for the OCSD 100 MGD Plant 1. Working in an existing plant can be challenging, but working within one of the largest plants in the U.S. can be dangerous if not coordinated correctly. Lyles orchestrated dozens of tie-ins to existing facilities with plant staff to accommodate daily operations and project safety which included a very detailed LOCK OUT/TAG OUT program.

Monthly executive meetings and project team workshops were also held to discuss the challenges associated with the mechanical, electrical and plumbing conflicts that existed on the drawings. Lyles used a combination of AutoCAD and Navisworks to graphically represent each mechanical system and interference to determine a solution prior to installation. This effort at the front end of the project resulted in a very smooth field installation effort. This is the same level of collaboration the City of Roseville can expect when partnering with Lyles on the EP.

KEY ELEMENTS OF OUR APPROACH

Attention to Safety – Lyles' focus on safety behavior and safety requirements has led to ZERO OSHA violations and over the last 5 years our worker's compensation claims, or Total Recordable Injury Rate (TRIR), has routinely fallen well below the industry average both statewide and on a national scale. Scott McElwain will serve as the Safety Director for the PGWWTP EP. Scott will routinely visit the site and will further engage when any critical activities are planned to occur. He will proactively work with our construction team to build safety into our means and methods while considering constructability requirements. Scott will also coordinate any safety special training that is needed on the project. As requested, please find additional information on our safety program in Section 7.

Attention to Quality– This is a key driver for controlling both schedule and cost. During pre-construction, proposed Quality Control Manager, Jon Shugarte, will work with the City of Roseville and the project team to identify critical quality elements, develop the Quality Management Plan (QMP), and lead sub/supplier quality implementation. During construction, Jon will implement and monitor the QMP, coordinate the inspection and testing program, provide QMP training to subcontractors and suppliers, and coordinate with City quality assurance staff as required.

Community Interaction – Lyles will look for ways to strike the right balance; to effectively address local concerns while also managing expectations. Ensuring community involvement with the City of Roseville, keeping total neutrality, promoting transparency; and developing an effective monitoring, evaluation, and reporting system are some of the actions that Lyles has taken on previous projects. Many of our key personnel live and work within Roseville and the surrounding areas. As members of the community and as ratepayers, we are uniquely invested in ensuring the success of this project.

Experienced Senior Staff – Top-level, experienced, senior staff will be involved and committed to the success of the EP. This will ensure the Project is never short of the required leadership and know-how that will be necessary to construct the most successful project possible. Proposed Project Manager, John Lunsford, will be the primary point-of-contact for the City. His responsibility will be to ensure the highest standards are maintained with respect to safety, budget, and schedule. Assistant Project Manager, Jon Shugarte, will make sure that all activities in the field are properly coordinated, all materials and manpower are available when needed, and all work complies with the quality standards established for the Project.

Risk Management – A risk register will be created in collaboration with the City to identify and address high risk items early in the project. This risk register will be shared with the entire project team for input and buy-in. It is critical that all stakeholders are involved in the process and have input in the resulting decisions.

Value Engineering

Value engineering sessions will be conducted to provide cost reduction and schedule suggestions for the City of Roseville's consideration. At the OCSD Plant 1 project WML suggested over $8M of innovative cost saving ideas. The Owner took advantage of over $6M of the innovative cost savings. See detailed spreadsheet below.

LOCATION	DESCRIPTIO N	VE COST SUBMITTED	VE COST ACCEPTED
PVC Liner Under Structure	Elimination of PVC liner under structures	$ 300,000.00	$ 270,000.00
Xynex in Concrete	$400K assuming OCSD Keeps Xynex in Conc.	$ 400,000.00	
Exterior Waterproofing	Elimination of exterior waterproofing on concrete	$ 30,000.00	
Drilled Piers	Change to displacement piles	$ 2,900,000.00	$ 2,687,985.00
Accoustical Panels	In basement and subbasement ceiling	$ 200,000.00	
Paint on Basement Deck	In basement and subbasement ceiling	$ 46,000.00	$ 41,400.00
Polymer Station	Elimination of Polymer Station except for 1/3 used.	$ 500,000.00	$ 450,000.00
Screen Wall	Elimination of Piles and Precast Wall.	$ 740,000.00	$ 180,000.00
Braced Frame Structure	No cost savings	$ -	
Flow Meter Elimination	Elimination of Flowmeters and valves in basement	$ 80,000.00	
Progressive Cavity Pumps	Spec 11309 Changes to Moyno or Netzsch	$ 900,000.00	$ 773,100.00
Cake Pumps	Spec 11250 changes to Piston Pumps	$ 1,600,000.00	$ 1,574,874.00
Elimination of DAFT UF to Wetwell	Elimination of pipe, manhole and vault	$ 82,000.00	
Elimination of Subbasement	Raises subbasement to elevation 4.5	$ 400,000.00	$ 361,178.00
	tals	$ 8,178,000.00	$ 6,338,537.00

Planning and Sequencing – Our team will proactively manage the entire schedule, with a sharp focus on the critical path. Our goal is to maximize efficiency which will result in an overall lower project cost. Our project team, with support from experienced CPM Scheduler, Tony Mueller, has taken into account and addressed the challenges that have the potential to derail the EP. Our solutions are reflected in our baseline CPM schedule for the Project, which can be found in Appendix C.

Tight Project Controls and Accounting – We utilize industry leading cost controls and accounting systems on all of our projects. Our experience using this open-book approach as a standard will ensure that timely, accurate, and transparent cost information is available in a format that all project stakeholders can utilize. See Section 8, for further details on how Lyles will provide the City with personalized access to its accounting system.

Self-Performance – Lyles plans to self-perform over 55% of all work on the EP. This will benefit the City of Roseville, by reducing projects risks associated with schedule, quality, safety and cost. This will also enable us to achieve the target project milestones defined in the RFP. Our ability to self-perform the majority of the scope, coupled with a proven team that has worked together to deliver similar projects, will set the stage for the highest level of performance possible.

Engage a Team of Proven, Qualified Subcontractors – We select subcontractors that have the qualifications and proven track record to be part of our team. Accountability and ownership are key attributes that we look for. The Electrical and Instrumentation scopes of work have been assigned to long time trusted partners Wade Johnson with San Joaquin Electric (SJE) and Tesco Controls due to their critical nature. The EP will benefit from our proven partnership and their contributions to both the design and construction of the EP.

The Right Experience

Lyles' work on the $92M Design-Bid-Build of a 22 MGD Water Recycling Treatment Plant for the City of Visalia included an odor control system for the existing headworks; modification of the existing primary sedimentations basins, a new septage receiving station, a new pump station with fine screens, modifications to the existing aeration system, replacement of the existing secondary and tertiary treatment process with a new GE supplied membrane bioreactor (MBR) system, and an Ozonia supplied ultra-violet (UV) disinfection system.

Lyles worked in partnership with the City of Visalia to overcome project challenges, maintain maximum access, and complete start-up and commissioning services well within the scheduled project completion date. Lyles and the City of Visalia worked closely during construction to provide seamless mechanical operational transfers and process tie-ins so that there were ***no impacts*** to the plant or their customers.

ACHIEVING THE CITY'S GOALS

BUDGET

Careful attention has been paid to the details of the EP and an accurate GMP price has been developed. Utilizing an accurate budget in combination with timely cost reporting will ensure that we identify budgetary opportunities or issues while there is still time to address them. We are proactive with our budget management, not reactive. We employ an open-book approach and provide reporting tools that will give the City complete confidence that budgetary goals are being met and surprises avoided.

SCHEDULE

A detailed CPM schedule has been developed for this Project (Appendix C) which highlights the importance we place on achieving the milestones outlined in the RFP. We have analyzed and compared the project budget against the schedule to further verify that we are in alignment. **We have a proven history of maintaining project schedule on very difficult and time sensitive projects and, in fact, have never been assessed liquidated damages for exceeding a project deadline.**

STAKEHOLDER NEEDS

Along with maintaining the budget and schedule, the Project must serve the needs of all stakeholders; including the surrounding community. This is achieved by actively planning to minimize community concerns such as sound, traffic, dust, odors, and visual disturbances. At all times, it will be critical that the project site is maintained in a clean and organized fashion. In addition to the productivity and quality benefits, this will ensure that the City and the neighboring community experience a professionally managed project.

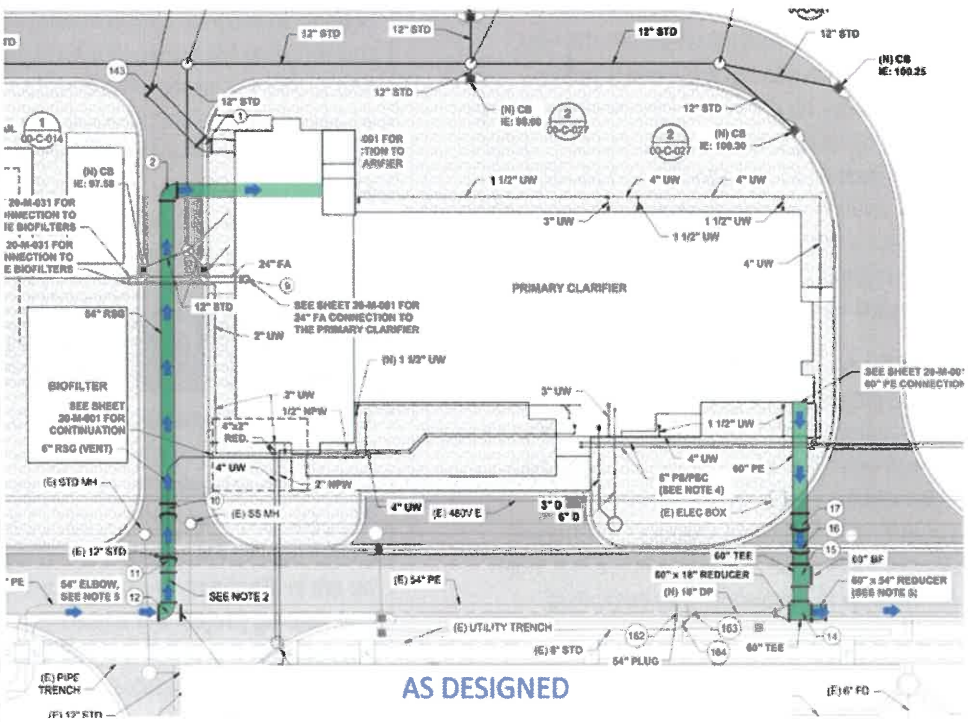
OVERCOMING CHALLENGES

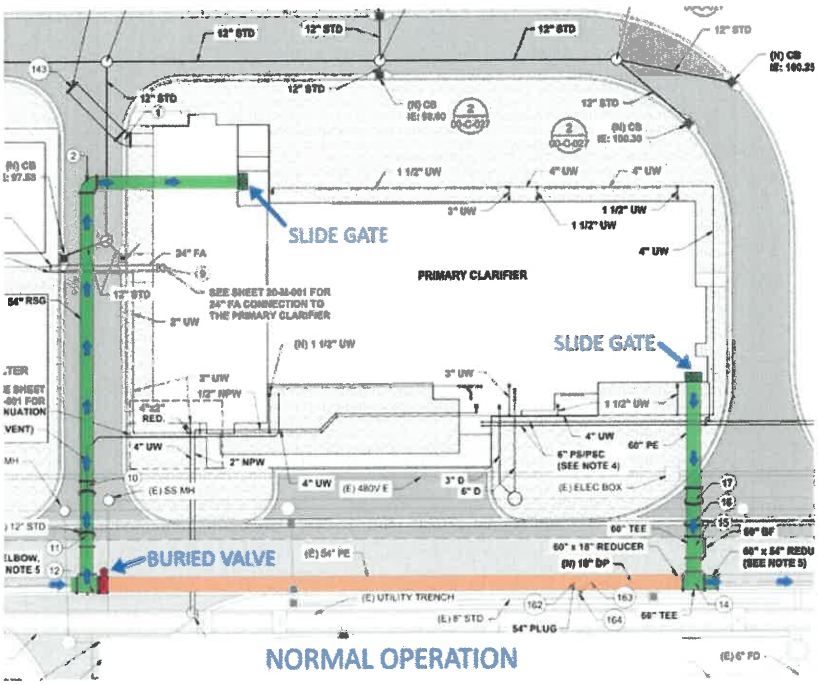
Lyles is committed to identifying challenges and developing the most advantageous solutions for the City of Roseville from the very beginning of the project. We have provided the outline below to give some structure to a discussion of the greatest challenge that we believe the Expansion Project will face. Our strategy for mitigating this challenge has been provided as well.

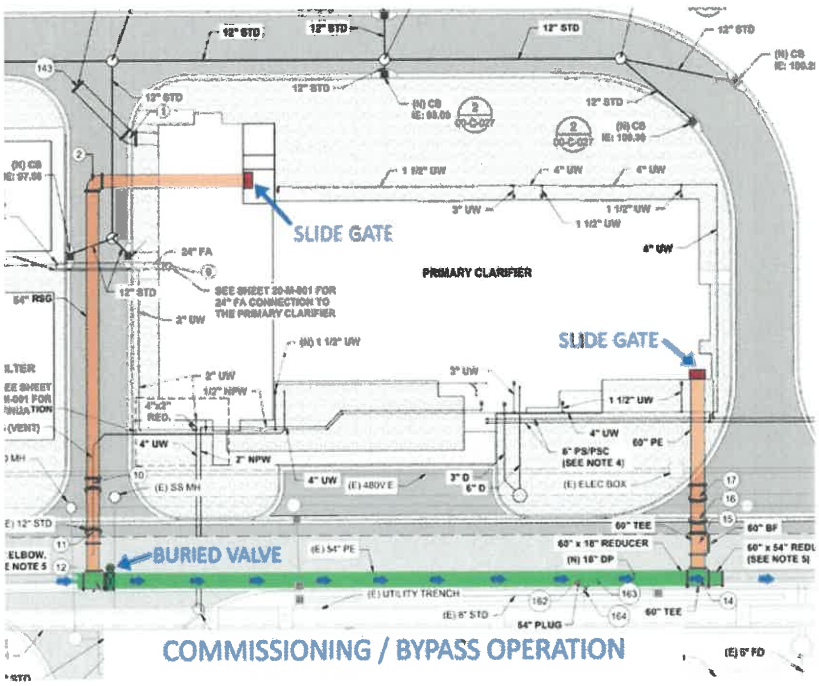
Challenge 1: Startup and Commissioning of the Primary Clarifiers

Impact:

Drawing 00-CP-015 depicts the new Primary Influent and Primary Effluent piping connections to the Primary Clarifiers. As designed, the new piping will direct flow into, and out of, the Primary Clarifiers without providing for the ability to bypass the Clarifiers under any circumstances. As a result, temporary bypass pumping equipment will be required to A) reroute flows around the piping tie-ins to facilitate construction, and B) remain onsite during commissioning to provide the ability to bypass flows around the Primary Clarifiers in the event of a mechanical or electrical failure. Maintaining and operating the temporary bypass equipment will be both inherently risky and costly.







Mitigation Measure:

Lyles recommends incorporating one additional valve and two additional gates into the design to provide for the ability to bypass the Primary Clarifiers in an emergency event both during commissioning and after completion of the project. These additions will benefit the project by

- Mitigating the "point of no return" inherent in the current work plan. Once the Primary Clarifiers are placed into initial service, they cannot be taken offline without employing a risky and expensive temporary bypass pumping operation.
- Removing the need for, and cost of, temporary bypass pumping during commissioning. Should an issue occur, the Primary Clarifiers can be bypassed using the existing piping until the problem is resolved.
- Providing operational flexibility in the future should a need to take the Primary Clarifiers offline arise.



SECTION 2

APPROACH TO THE PROJECT'S SCOPE OF WORK/SPECIAL PROJECT CONSIDERATIONS

APPROACH TO THE PROJECT SCOPE OF WORK / SPECIAL PROJECT CONSIDERATIONS

Our project approach began with developing an understanding of the project drivers, followed by identifying the greatest challenges and their potential solutions. We look forward to collaborating with the City of Roseville to combine these individual project elements into an overall scope of work and proposed plan to meet the City of Roseville's needs.

To outline our approach, we have broken the project into the following major components:

GENERAL AREA
- Design-Assistance
- Pre-Planning & Site Logistics

PRIMARY CLARIFIER AREA
- Earthwork & Underground Utilities
- Primary Clarifiers
- Biofilters
- Electrical Building
- Site Finishes

DIGESTER AREA
- Earthwork & Underground Utilities
- Digesters
- Digester Building
- Thickener Building
- WAS Holding Tank Modifications
- Site Finishes

Our outlined approach is as follows:

GENERAL AREA

TASK ONE: DESIGN-ASSISTANCE
TIMELINE: NTP THROUGH DAY 90 / DECEMBER 2019 THROUGH FEBRUARY 2020

Sub-task 1: Value Engineering

One of the benefits of the Design-Assist process is the intentional commitment of time to the development of value engineering ideas throughout the life of the project. In support of this process, we have already identified several potential opportunities which we believe will enhance the value and reduce the risks inherent in the EP. These opportunities include revising the modifications being made to the existing WAS Holding Tanks, utilizing fabricated aluminum stairs instead of concrete at the Primary Clarifiers, and utilizing steel construction as an alternative to concrete for the roof decks at each of the Buildings. Please see Section 3 for a more detailed discussion.

Sub-task 2: Constructability Review

Lyles and its subcontractors are in a position to share the lessons-learned through the execution of hundreds of construction projects with the entire project team. This insight will be furnished to the benefit of the Project and will provide City stakeholders with an opportunity to evaluate construction methods and techniques that may not have been considered.

CITY OF ROSEVILLE CALIFORNIA + W.M. LYLES CO. CONTRACTOR Since 1945 *Progress Through Performance*

A Committed and Integrated Team

Monthly Executive Meetings

We suggest holding monthly executive meetings where respective principals from the City of Roseville and Lyles can openly discuss the performance of their respective teams. This approach has worked well on other projects and has resulted in maximum collaboration, proactive problem solving of issues before they become project complications, organizational alignment, and "common goal" project execution.

Lyles also has real-time access to current material pricing and will be able to provide alternative options for aggregates, pipe materials, structural materials, and other commodities than can meet or exceed the project requirements at a lower overall cost. We expect this entire process to be collaborative, transparent, and focused on delivering added value to the EP.

Sub-task 3: Contractor Furnished Design Elements

The Specifications require the Contractor to furnish a number of design elements which include, but are not limited to: piping supports, conduit supports, anchorage for electrical equipment, anchorage for process equipment, tanks, and storage vessels. Many of these elements have the potential to affect the final Construction Plans and Specifications. For example, preferential pipe routing identified during value engineering and constructability review would influence the number, size, and type of pipe supports required. Our goal will be to identify these elements early so that they are incorporated into the Plans and Specs at this stage, rather than having to update the drawings later through the submittal and record drawing processes. This will reduce the potential for construction errors and reduce the amount of effort required by the Engineer and the City of Roseville.

Task 1 Key Participants:

- Joe Lawrence – Project Sponsor – Value engineering, constructability review, and resource allocation
- John Lunsford – Sr. PM – Value engineering, constructability review, and subcontractor procurement
- Reece Berger – Pre-Plan Mgr. – Design- assist estimating support
- Pat Van Treeck – Pre-Plan Eng. – Design-assist estimating support
- San Joaquin Electric - Electrician – Value engineering and constructability review
- TESCO Controls, Inc. - Integrator – Value engineering and constructability review

Task 1 Critical Components:

- Partnering and team building
- Implementation of value enhancing concepts and ideas
- Finalization of Construction Plans and Specifications

TASK 2: PRE-PLANNING & SITE LOGISTICS TIMELINE: DAY 45 THROUGH DAY 120 / JANUARY 2020 THROUGH MARCH 2020

Sub-task 1: Critical Path Management

Identification and management of the critical path is the first step in maintaining and expediting a project schedule (step two is managing risks and step three is managing near-critical activities). The critical path of the EP flows through the early submittals, site preparation, and into the underground utilities for the Digesters. It then continues through the concrete work, mechanical work, and commissioning of the Digesters and their related systems. This is followed by the conversion of the existing WAS Holding Tanks, startup of the remodeled Sludge Transfer Pumps and the new Centrate Feed Pumps, and finally, punchlisting and demobilization from the facility.

Schedule risks exist that will need to be carefully monitored and mitigated throughout the life of the project. One such risk is the achievement of Milestone E – Phase A Startup. The most critical requirement of this Milestone is that the newly commissioned Digesters be capable of producing biogas and delivering it to the ERP. The Contract provides 730 calendar days for the completion of this work which is adequate, but does not provide much room for error. Lyles' plan includes expedition of this work through task prioritization and the strategic use of overtime to ensure compliance with the specified timeframe. Should the City award both the EP and the ERP to Lyles, then our plan will be to expend additional overtime to improve the schedule further, as savings to the ERP will offset the costs to the EP and result in a shortened overall construction schedule for both projects (See Lyles ERP Proposal for further discussion).

Sub-task 2: Procurement of Long Lead Items

Through coordination with our subcontractors and suppliers, we have identified all of the long-lead items and incorporated their procurement into the overall project schedule. Based on this effort, the below slab piping systems, the concrete mix designs, and the Prestressed Concrete Tank submittals will be prioritized and expedited. To assist with the review and approval process, we will require our subcontractors and suppliers to participate in

joint submittal review meetings which will include the City and the Engineer. The purpose of these meetings is to address any concerns and facilitate approvals to ensure that a release to fabrication can be provided upon completion of the first submittal review cycle. Mitigating the need for multiple review cycles will save the project both time and money.

Sub-task 3: Site Logistics

The site is split into two major areas: the Primary Clarifier Area and the Digester Area. We have a well thought out site layout and staging plan which will be further developed and implemented. This will contribute to safe and efficient project performance. To facilitate expedited construction of the new roadway and access gate, we will prioritize the below grade utilities located within the roadway west of the new Digesters. Doing so will provide improved access to both Lyles and the ERP contractor, resulting in reduced traffic and congestion in the area. An additional benefit will be the early completion of Milestone D – Roadway Connection, which is necessary for beneficial use of the ERP.

Task 2 Key Participants:

- John Lunsford – PM – Overall project planning and coordination, and critical early submittal management
- Jon Shugarte – Asst. PM – QC plan development and SWPPP development
- Tony Mueller – Scheduler – CPM schedule development and refinement
- Reece Berger – Pre-Plan Mgr. – Civil and structural procurement
- Pat Van Treeck – Pre-Plan Eng. – Mechanical procurement
- Electrician – Electrical sequencing and schedule input

Task 2 Critical Components:

- Finalization of the CPM Schedule
- Procurement of major process equipment
- Partnering and team building
- Implementation of value enhancing concepts and ideas
- Finalization of Construction Plans and Specifications

PRIMARY CLARIFIER AREA

TASK 1: EARTHWORK & UNDERGROUND UTILITIES TIMELINE: DAY 90 THROUGH DAY 135 / FEBRUARY 2020 THROUGH APRIL 2020

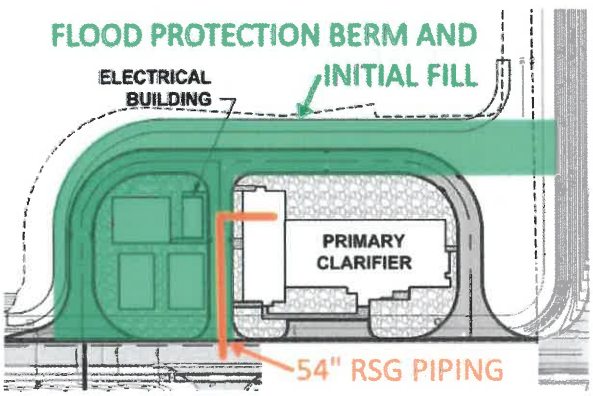
Sub-task 1: Flood Protection

The new Primary Clarifiers will be located within the limits of Effluent Storage Basin No. 3 and, as such, will be subject to potential flooding. There are two sources of flooding to consider: excessive runoff created by inclement weather and operational use of the Basin for emergency purposes. Lyles will provide protection against both by utilizing the existing soils currently stockpiled at the south end of the Basin to build a protective earthen berm around the Clarifier excavation. This berm will be raised to a safe elevation and constructed in compliance with the Structural Earthwork Specifications as it will eventually be incorporated into the new roadway that encircles the Clarifiers.

Sub-task 2: Deep Piping, Earthwork and Subgrade Preparation

First, the deep portion of the new 54" RSG piping will be installed. Earthwork efforts can then begin in earnest once the flood protection berm is complete. Any material generated by the Primary Clarifier structural excavation efforts will be added to the berm to create additional freeboard. It is expected that material will also be generated by the ERP, which can be incorporated at this time as well. Once the excavation and subgrade prep are complete, construction of the Primary Clarifiers can begin.

After the Clarifier subgrade is prepared, additional fill material will be imported to raise the grade on the north side of the Clarifiers to the elevation needed to support construction of the Electrical Building.



Task 1 Key Participants:

- John Lunsford – PM – Overall project planning and coordination
- Jon Shugarte – Asst. PM – Underground pipe preplanning and QC plan implementation

Task 1 Critical Components:

- Establishment of a safe work area with appropriate flood protection.
- Continued preplanning for underground piping and electrical installation

TASK 2: PRIMARY CLARIFIERS TIMELINE: DAY 135 THROUGH DAY 625 / APRIL 2020 THROUGH AUGUST 2021

Sub-task 1: Concrete Work

Concrete construction will commence as soon as preparation of the subgrade is complete. The sump pit located in the northeast corner of the structure is lowest in elevation and will be constructed first. Next, the mat slab foundation beneath the Equipment Gallery will be constructed, followed by the main slab beneath the Clarifier Basins. Several of the slab sections are greater than 36" in thickness and will require special consideration to manage the heat of hydration generated by the concrete. Cooling of the aggregates and/or adding ice to the concrete mix are effective methods for controlling concrete temperatures under similar conditions.

Construction of the concrete walls will begin once the foundation work is complete, followed by the concrete deck. Special attention will be given to the installation of the HDPE Protective Lining within the water bearing portions of the structure to ensure that its integrity is maintained. In addition, the falsework for the deck will be designed by a professional engineer and erected by a specialty subcontractor due to its height. Watertesting of the basins will be performed after the concrete decks reach design strength and the falsework is removed.

The concrete work for the Primary Clarifiers is expected to take 8 months to complete.

Sub-task 2: Mechanical Work

Mechanical work inside the Equipment Gallery will follow immediately after removal of the deck falsework in that area. Major equipment items to be installed in the Gallery include: Eight (8) Primary Sludge Pumps, Two (2) Influent Channel Mixing Pumps, Two (2) Gallery Sump Pumps, and a Travelling Bridge Crane.

Work inside the Clarifier Basins is contingent upon successful completion of the water test. The Chain and Flight Mechanisms, Scum Skimmers, Launders, and Aluminum Covers will all be installed once the water is removed and the Basins are safe to access.

Sub-task 3: Electrical Work

The first portion of electrical work to be completed at the Primary Clarifiers will be the installation of the lighting fixtures in the Equipment Gallery. These fixtures are located directly above all of the mechanical equipment and would be difficult to install at any other point in time. Installing them first will provide the safest working conditions for San Joaquin Electric. An added benefit is that the light fixtures require 120 volt power which can be provided during working hours using a temporary generator. Providing well lit working conditions with the Gallery will increase safety and productivity within the area.

The balance of the electrical work will be carefully coordinated with the mechanical work to ensure that the routing of conduits is optimized and that conflicts with piping and equipment are avoided.

Sub-task 4: Startup and Commissioning

Startup and commissioning activities are currently scheduled to begin in August of 2021 and continue through September.

Prior to this timeframe, Lyles will verify that all of the applicable Operations and Maintenance Manuals have been furnished, reviewed, and approved. Training sessions will also be scheduled and held to provide Plant Staff with proper instruction to ensure they are ready to utilize the new equipment and systems for their intended purpose.

During this timeframe, all of the Primary Clarifier Area equipment will be commissioned including the Primary Clarifiers, the Sludge and Scum Pumping Equipment, the Biofilters, and the Electrical and Instrumentation components. Each system will be systematically tested to verify proper installation, confirm functionality, and certify readiness for operation. Once testing is successfully completed, full-time operation of the equipment will be coordinated with operation of the Digester Area equipment to provide a complete and operable system.

Task 2 Key Participants:

- John Lunsford – PM – Structural concrete planning and coordination
- Reece Berger – Pre-Plan Mgr. – Structural procurement and support
- Rebar Sub – Reinforcing steel installation

Task 2 Critical Components:

- Management of concrete temperatures during the placement of mass concrete
- Proper installation of the HDPE protective liner

TASK 3: BIOFILTERS
TIMELINE: DAY 215 THROUGH DAY 410 / JULY 2020 THROUGH JANUARY 2021

Sub-task 1: System Installation

Construction of the Biofilters near the Primary Clarifier Electrical Building will be carefully coordinated to avoid congestion in the area. Specifically, excavation of the Biofilters will not begin until the masonry walls at the Building are complete and all scaffolding has been removed. Once underway, the Biofilters and their associated equipment, piping, and ducting will take approximately 5 months to complete.

Task 3 Key Participants:

- John Lunsford – PM – Overall planning and coordination
- Jon Shugarte – Asst. PM – Preplanning of FRP ductwork installation

Task 3 Critical Components:

- Coordination of trades to avoid congestion
- QC plan implementation during ductwork installation

TASK 4: ELECTRICAL BUILDING
TIMELINE: DAY 135 THROUGH DAY 440 / APRIL 2020 THROUGH FEBRUARY 2021

Sub-task 1: Underslab Utilities

The initial fill and subgrade preparation work for the Primary Clarifier Electrical Building will be complete in early spring 2021. Installation of the underslab electrical utilities will begin immediately thereafter and will take approximately 2 weeks to complete. Careful attention will be paid during the submittal process to ensure that the shop drawings for the Motor Control Centers and PLC Panels within the Building are coordinated with the structural slab design and that all of the conduit penetrations are accurately located.

Sub-task 2: Building Construction

Once the underground activities are complete, work on the Building proper will begin. The structural slab will be placed first, followed by the perimeter masonry walls, the concrete beams and roof deck, and the masonry parapet walls. Next, installation of the insulation and the single-ply membrane roofing membrane will occur, followed by the parapet cap, flashing and downspouts, and HVAC systems.

Start to finish, the Primary Clarifier Electrical Building will take approximately 6 months to complete as designed. Included in Section 3 is a discussion on the use of structural steel elements instead of concrete for the roof deck at this Building. If accepted by the City, it is estimated that the steel alternative will reduce the construction schedule at this building by 5 weeks.

Sub-task 3: Electrical System Installation

After completion of the interior finishes at the Electrical Building, installation of the Motor Control Centers, PLC Panels, and other auxiliary electrical equipment will occur.

Task 4 Key Participants:

- John Lunsford – PM – Structural concrete planning and coordination
- Masonry Sub – CMU wall construction
- Electrician – Conduit penetration coordination and electrical system installation
- Integrator – Supply of Motor Control Centers, PLC Panels, and instrumentation

Task 4 Critical Components:

- Concrete deck construction
- Electrical system testing

TASK 5: SITE FINISHES
TIMELINE: DAY 480 THROUGH DAY 540 / APRIL 2021 THROUGH JUNE 2021

Sub-task 1: Site Concrete & Paving

Finish grading and site concrete construction around the Primary Clarifiers is scheduled to begin in the spring of 2021, immediately following completion of the underground electrical work in the area. This timeframe is also ideal from a weather standpoint. Paving of the new roadway will occur in late May providing ideal conditions for producing a high quality finished product.

Sub-task 2: Finish Work

Finish work in the Primary Clarifier Area will begin concurrently with the site concrete and paving efforts. The first order of business will be to fine grade the new slopes adjacent to the roadway along with the remodeled slopes located at the south end of Effluent Storage Basin No. 3. The geogrid slope protection system will then get installed and backfilled with soil. Hydromulching will then be applied to all of the finished slopes and, once paving is complete in the area, the gravel ground cover will be imported and installed.

Task 5 Key Participants:

- John Lunsford – PM – Site civil planning and coordination
- Paving Sub – Asphalt paving installation

Task 5 Critical Components:

- Completion of asphalt paving while daytime temperatures are warm
- Completion of slope protection prior to rainy season

History of Successful Partnering

The City of Roseville can trust that our Team will be proactive. With decades of experience working together on similar WWTP expansion and upgrade projects, the winning combination of W. M. Lyles Co., Wade Johnson and TESCO will provide the City with a collaborative, respectful, and trustworthy Design-Assist partner. A few of the projects we have collaborated on include:



City of Galt, Wastewater Treatment Plant Tertiary Filtration, UV Disinfection & Biosolids Improvements

CONTRACT VALUE: $11,828,000
% OF SELF-PERFORMANCE: 68 %
PROJECT RELEVANCE:
1. Numerous shut-downs & tie-ins to existing facilities
2. Included State Revolving Funds
3. Plant remained fully operational during construction
4. Biosolids Dewatering /Transfer Facilities



City of Davis, Wastewater Treatment Plant Secondary Treatment and Tertiary Improvements

CONTRACT VALUE: $72,202,131
% OF SELF-PERFORMANCE: 67 %
PROJECT RELEVANCE:
1. Numerous shut-downs & tie-ins to existing facilities
2. Included State Revolving Funds
3. Plant remained fully operational during construction



Hi-Desert Water District, Wastewater Reclamation Facility
CONTRACT VALUE: $30,003,509
% OF SELF-PERFORMANCE: 70 %
PROJECT RELEVANCE:
1. Numerous shut-downs & tie-ins to existing facilities
2. Included State Revolving Funds



Water, Wastewater and Reuse Program, Tesoro Viejo Master Mutual Water Company
CONTRACT VALUE: $38,000,000
% OF SELF-PERFORMANCE: 69 %
PROJECT RELEVANCE:
1. Complex WWTP with extensive value engineering
2. Expansion

DIGESTER AREA

TASK 1: EARTHWORK & UNDERGROUND UTILITIES TIMELINE: DAY 90 THROUGH DAY 135 / FEBRUARY 2020 THROUGH APRIL 2020

Sub-task 1: Earthwork and Subgrade Preparation

The area where the new Digesters will be located has been used as a contractor staging and storage area in the past and will need to be cleared prior to construction. Any remaining materials will be relocated to a City designated location and the topsoil will be stripped and stockpiled. Next, the entire area will be rough graded and the subgrade will be prepped.

Sub-task 2: Buried Utilities

The twin 30" MS pipes located underneath each of the Digesters will be the first buried utilities to be installed in this Area. The portions of these same pipes that extend under the Digester Building will be next, followed by the remainder of the small diameter utility and plumbing pipelines that are located beneath the Digester Building slab.

The balance of the interconnecting buried utilities in the Digester Area will be installed sequentially once the structural work in the Area is complete. Pipelines will be installed in common trenches, where possible, for maximum efficiency. Based on the schedule, the bulk of this work will be performed during the late fall and winter, which presents the possibility of complications due to inclement weather. To mitigate this, Lyles will minimize the length and number of trenches that will be opened up at any one time.

Sub-task 3: Precast Utility Trench

Installation of the section of Precast Utility Trench that runs north-south will be performed in the spring of 2021 to support compliance with Milestone B. This section of Trench carries the PW, UW, and SS piping systems which must be completed within 390 calendar days.

Installation of the east-west section of Trench will be strategically postponed until after the Digesters and the Digester Building are structurally complete. This will ensure that the Prestressed Concrete Tank Subcontractor has adequate space to fabricate formwork, tie rebar curtains, and work safely and efficiently.

Task 1 Key Participants:

- John Lunsford – PM – Overall project planning and coordination
- Jon Shugarte – Asst. PM – Underground pipe and preplanning and QC plan implementation

Task 1 Critical Components:

- Site clearing and preparation
- Installation of underslab piping and utilities

TASK 2: DIGESTERS TIMELINE: DAY 120 THROUGH DAY 730 / FEBRUARY 2020 THROUGH NOVEMBER 2021

Sub-task 1: Concrete Work

Installation of a 12" thick section of aggregate base material will be installed at each Digester as soon as the 30" MS piping installation is complete. Next, construction of the concrete work at each of the Digesters will begin. The work will be performed sequentially, beginning with the mat slab foundation for Digester 2 and then moving over to Digester 1. Performing the work from east to west will maximize access on and around the west roadway by keeping the formwork fabrication operation further away from traffic.

Once the slab at Digester 2 is complete, construction of the walls will commence. First, the concrete core wall be formed and cast in place. This operation will be followed by the installation of prestressing tendons which will be performed by the tank designer and prestressor, DN Tank. The next step will be to apply shotcrete to the outer face of the tank which will cover, protect, and lock in the prestressing tendons. This is a highly automated process ensuring the highest quality is maintained throughout the operation.

The next step in the sequence will be to move the concrete wall formwork over to Digester 1 and then repeat the operation. With the formwork removed, the concrete dome work at Digester 2 can begin. This effort involves the erection of falsework within the interior of the tank to support the dome concrete and rebar during placement and until design strength is achieved. Similar to the wall formwork, this falsework will be deconstructed and re-erected at Digester 1 as soon as the first dome is capable of supporting itself. Once both domes are finished, the

structural concrete work at the new Digesters will be complete and ready to receive coatings.

Sub-task 2: Mechanical Work

Mechanical work inside the Digesters will begin as soon as the coatings have cured and the interiors are cleaned and cleared. This work will include the installation of two 20" diameter nozzles, a 30" diameter suction pipe, and several smaller diameter sample tubes in each Digester. Most of these items are elevated and will require scaffolding for access. Safety will take top priority during the execution of these efforts as the Digesters will now be considered confined spaces. Hoisting operations inside of the tanks will also present a unique safety hazard that will need to be addressed. Job Safety Analyses will be performed prior to each operation to ensure that all hazards are identified, discussed, and mitigated.

Installation of the permanent perimeter guardrail will take top priority on the exterior of the tanks. Next in line will be the installation of the gas piping and appurtenances on the domes, followed by the sludge piping and supports located around the circumference of each tank.

Sub-task 3: Electrical Work

Electrical work on, and in, the Digesters is limited and will be performed concurrently with the mechanical work. Miscellaneous instruments and lighting make up the bulk of the effort.

Sub-task 4: Startup & Commissioning

Startup and commissioning activities are currently scheduled to occur in September and October of 2021.

Similar to the Primary Clarifier Area, Lyles will verify that all of the applicable Operations and Maintenance Manuals have been furnished, reviewed, and approved prior to this timeframe. Training sessions will be scheduled and held to provide Plant Staff with proper instruction to ensure they are ready to utilize the new equipment and systems for their intended purpose.

During this timeframe, all of the Digester Area equipment will be commissioned including, but not limited to, the Digesters; the Sludge Pumping, Mixing, and Heating Equipment; the Sludge Thickening Equipment, and the Electrical and Instrumentation components. Each system will be systematically tested to verify proper installation, confirm functionality, and certify readiness for operation. Once testing is successfully completed, full-time operation of the equipment will be coordinated with operation of the Digester Area equipment to provide a complete and operable system.

Bringing the Digester Area Systems online will require required careful coordination between Lyles, San Joaquin Electric, Tesco, Plant Staff, and Kennedy Jenks. The biological process that occurs within the Digesters will take time to establish and stabilize itself. During this period, active monitoring and participation will be required from all parties. Lyles and its team have performed this operation numerous times and will be prepared to take all action necessary to ensure successful startup of the facilities.

Task 2 Key Participants:

- John Lunsford – PM – Structural concrete planning and coordination
- Reece Berger – Pre-Plan Mgr. – Structural procurement and support
- Prestressed Tank Sub – Concrete tank construction

Task 2 Critical Components:

- Coordination of trades to avoid congestion
- Installation of embeds for prestressing tendons and pipe penetrations
- Performance of prestressing activities

TASK 3: DIGESTER BUILDING
TIMELINE: DAY 135 THROUGH DAY 560 / APRIL 2020 THROUGH JUNE 2021

Sub-task 1: Building Construction

The foundation of the Digester Building consists of a perimeter thickened footing, individual column footings, and a main floor slab. Coordination points of note include the drilled concrete piers for the pipe supports, the trench drains, the piping penetrations, and the conduit entrances in the electrical room.

The concrete columns and pilasters will follow the foundation work. These elements will serve to bolster the masonry walls and carry the loads of the concrete roof and the travelling bridge crane. Formsavers (threaded

rebar couplers) will be utilized at each interface between the concrete pilasters and the masonry walls to allow the horizontal masonry reinforcement to wrap continuously around the Building. Care will be taken to ensure that the formsavers are laid out correctly to align with the appropriate courses of masonry block.

Masonry work will begin once the columns and pilasters are complete. The walls will be raised to the bottom of the perimeter concrete beam and then stopped to permit construction of the beams and roof. Professionally engineered falsework will be required due to the height of the roof. Once the concrete roof has been cast-in-place, the masonry parapet walls will be constructed, substantially completing the structural work at the Building. Additional work to complete the Building will include roofing, non-structural framing of the electrical room and rest room, coatings, and doors and hardware.

Sub-task 2: Mechanical Systems Installation

Mechanical work inside the Digester Building will be next. Major equipment items to be installed include: three (3) Digested Sludge Transfer Pumps, three (3) Digester Mixing Pumps, three (3) Digester Recirculation Pumps, two (2) Sludge Grinders, two (2) Boilers, two (2) Heat Exchangers, two (2) Hot Water Pumps, and a Travelling Bridge Crane.

Installation of these items will be challenging due to the limited space available within the Building. The work will be carefully staged to avoid congestion and will require that the piping installation be staggered with the equipment installation, beginning at the furthest point from the rollup door and working out of the Building. Consideration will also have to be given to the electrical conduit routing and the lighting to ensure that conflicts are avoided.

Sub-task 3: Electrical Systems Installation

The installation of lighting, instrumentation, and local control panels will be coordinated with the mechanical system installation as mentioned above. Installation of the Motor Control Centers, PLC Panels, and panelboards in the electrical room, however, can be installed without interruption.

Task 3 Key Participants:

- John Lunsford – PM – Overall project planning and coordination
- Pat Van Treeck – Pre-plan Eng. – Mechanical procurement and support
- Masonry Sub – CMU wall construction
- Electrician – Conduit penetration coordination and electrical system installation
- Integrator – Supply of Motor Control Centers, PLC Panels, and instrumentation

Task 3 Critical Components:

- Concrete deck construction
- Coordination of mechanical system installation
- Electrical system testing
- Coordination of trades to avoid congestion

TASK 4: THICKENER BUILDING
TIMELINE: DAY 135 THROUGH DAY 530 / APRIL 2020 THROUGH MAY 2022

Sub-task 1: Building Construction

The Thickener Building and Digester Building have much in common from a concrete construction standpoint. Like the Digester Building, the foundation of the Thickener Building consists of a perimeter thickened footing, individual column footings, and a main floor slab. Unlike the Digester Building, however, the Thickener Building also has a recessed drainage area beneath the Polymer Room, a recessed pipe trench in the Thickener Room, and a deep drainage sump. These elements will be closely coordinated with the approved shop drawings produced by the selected equipment manufacturers to ensure that any conflicts are identified and addressed prior to beginning construction of the Building.

With respect to the concrete pilasters and columns, the masonry walls, and the concrete deck, the work at the Thickener Building is nearly identical to the Digester Building and will require the same considerations to construct.

Sub-task 2: Mechanical Systems Installation

Mechanical work within the Thickener Building is similarly complicated as well. Major equipment items to be installed include: three (3) Rotary Drum Thickeners with Flocculation Tanks, three (3) Thickened Sludge Pumps, three (3) Polymer Blending Units, two (2) Sump Pumps, and a Travelling Bridge Crane. The Thickener Room houses the Thickeners, the Flocculation Tanks, and the Thickened Sludge Pumps. The final layout and disposition of these pieces will be dependent on the physical dimensions of the selected manufacturer's equipment. In all cases, however, the equipment will need to be well coordinated with the piping layout, conduit layout, and the dimensional layout of the access platform that surrounds the equipment.

The current design approach includes a steel platform for accessing and maintaining the Thickener Equipment. The benefit of this approach is that it provides safe access to the elevated portions of the equipment. The challenge with this approach, however, is that it congests the work area and reduces access to the pumping and piping elements located beneath the Thickener that also require maintenance on a regular basis. Lyles has experience with installing numerous Rotary Drum Thickeners on larger equipment pads that are similar in area to the platform but are lower in elevation. By bringing the equipment down and the working floor up, a balance is created that accommodates the needs of the equipment while providing improved access to both the upper and the lower portions of the equipment. We look forward to exploring this option, and others, with the City and Kennedy Jenks during the Design-Assist period.

Sub-task 3: Electrical Systems Installation

Again, similar to the Digester Building, installation of the lighting, Instrumentation, and local control panels will be coordinated with the mechanical system installation to ensure adequate access and to avoid conflicts. Installation of the Motor Control Centers, PLC Panels, and panelboards are also located in a separate electrical room and can be installed without interruption.

Task 4 Key Participants:

- John Lunsford – PM – Overall project planning and coordination
- Pat Van Treeck – Pre-plan Eng. – Mechanical procurement and support
- Masonry Sub – CMU wall construction
- Electrician – Conduit penetration coordination and electrical system installation
- Integrator – Supply of Motor Control Centers, PLC Panels, and instrumentation

Task 4 Critical Components:

- Concrete deck construction
- Coordination of mechanical system installation
- Electrical system testing

TASK 5: WAS HOLDING TANK MODIFICATIONS TIMELINE: DAY 730 THROUGH DAY 910 / DECEMBER 2021 THROUGH MAY 2022

Sub-task 1: Demolition and Cleaning

The modifications to the existing WAS Holding Tanks are the last major scope of work on the critical path of this Project. Per the Specifications, Plant Staff will reduce the level of material in the tanks to approximately 3 feet above the bottom of the sidewall. When this effort is complete, Lyles will work with its Tank Cleaning Subcontractor to confirm that the actual level is beneath the design invert of the new manway that is to be installed. Once confirmed, Lyles will cut the new opening in the tank which will provide safer access for cleaning. Next, the Tank Cleaning Subcontractor will remove, dewater, and dispose of any remaining solids in the tank. The Final step will be to demolish the WAS piping identified for removal, the foul air piping on top of Tank No. 1, and the existing Sludge Mixing Pump bases.

Sub-task 2: Structural Modifications

The structural modifications required at the WAS Holding Tanks are not extensive, but the manways present several complications. The first complication lies in the openings themselves. The proposed manways are square which will result in overcuts at each of the corners. These overcuts

will be repaired as part of the modification process, but they are not ideal. The second complication is in the reinforcing steel. Each opening requires nearly 450 individual dowels to be drilled and epoxied 12" deep into the wall. The process of installing these will be time consuming and expensive. Additionally, the horizontal reinforcing steel is specified as Grade 75 Threaded Rod which is to be rolled to match the radius of the tank. This type of rod is uncommon and presents unique challenges that must be coordinated with the manufacturer to ensure that the strength of the bar is not compromised when it is rolled. The final complication is in the application of the shotcrete surfacing. Shotcrete is spray applied and has a tendency to rebound off of solid surfaces, especially vertical surfaces like the tank wall, creating significant waste. Special efforts will have to be made to ensure proper coverage is achieved over the entirety of the modified area.

Lyles has performed similar work on numerous projects and is confident in its ability to perform the modifications as designed. Lyles has also modified tanks using several different methods and looks forward to discussing possible alternatives with the City. Please see Section 3 – Cost Reduction Opportunities for further discussion.

Sub-task 3: Mechanical Modifications

The mechanical modifications at the WAS Holding Tanks include remodeling and reorientation of the existing Sludge Mixing Pumps, abandonment and reconfiguration of numerous pipelines, and the addition of a metering vault. This work is typical and uncomplicated. Once complete, the WAS Holding Tanks will be ready to serve in their revised capacity as Centrate and Digested Sludge Holding Tanks.

Task 5 Key Participants:

- John Lunsford – PM – Structural repair planning and coordination
- Jon Shugarte – Asst. PM – QC plan development and implementation
- Tank Cleaning Sub – Removal, dewatering, and disposal of solids

Task 5 Critical Components:

- Safety and environmental protection during cleaning operations
- Cutting of concrete tank walls
- Quality control during execution of tank reinforcing

TASK 6: SITE FINISHES
TIMELINE: DAY 640 THROUGH DAY 700 / SEPTEMBER 2021 THROUGH NOVEMBER 2022

Sub-task 1: Site Concrete & Paving

The site concrete and paving efforts in the Digester Area will be performed once all of the structural and mechanical elements at both of the Digesters and the Digester Building are complete. This work will include completion of the curb, gutter, and asphalt roadway surrounding the Digesters and connection to the roadway that was completed earlier in the project (Milestone D).

Sub-task 2: Finish Work

Finish work in the Digester Area will begin immediately following the site concrete and paving efforts. Final site grading and cleanup, and the installation of gravel ground cover make up the bulk of the finish work in this area.

Task 6 Key Participants:

- John Lunsford – PM – Site civil planning and coordination
- Paving Sub – Asphalt paving installation

Task 6 Critical Components:

- Completion of asphalt paving while daytime temperatures are warm

TURNING A CHALLENGE INTO AN OPPORTUNITY

THE CHALLENGE:

Lyles has developed a full CPM Schedule for both the Expansion and ERP Projects. These actions have allowed us to identify all of the critical coordination points between the two Projects and to develop the following unique observations:

- The longest path through the Expansion Project is through construction of the new Digesters and their supporting systems. The Expansion Project Contractor has no inherent motivation to expedite this work, because 1) the time allowed for this work is sufficient, 2) there is no incentive to do so.
- The longest path through the ERP Project is through the installation of the BUS and Cogeneration System equipment in preparation for the receipt of biogas. The minimum amount of time required to complete this work is significantly less than the 700 days allowed. However, the ERP Contractor has no inherent motivation to expedite the work due to the unavailability of biogas.
- Given the opportunity, the ERP Contractor would expedite the early delivery of biogas in order to maximize the amount of time available for commissioning. Unfortunately, there is no mechanism for accomplishing this. Both Contractors will naturally consume the allotted time, resulting in the longest possible overall schedule with the fewest number of days allowed for commissioning and performance testing. This will (unnecessarily) increase the ERP Contractors' performance risk.
- If the delivery of biogas is delayed, the ERP will need to be extended. Extending the ERP will increase the risk to the ERP Contractor and the City, and extend job overhead and supervision costs.

In summary: 1) the ERP Contractor has no ability to beneficially expedite the delivery of biogas, 2) the Expansion Project Contractor has no inherent motivation to provide it early, and 3) the City will take on additional risk if it attempts to either expedite the Expansion Project or extend the ERP.

THE OPPORTUNITY:

Lyles has developed numerous lessons-learned through the delivery of over 100 Alternative Delivery projects. One of the most important lessons is related to the allocation of risk. Ideally, project risks are always assigned to the party in the best position to mitigate them. This is not the case in the challenge identified above unless the City capitalizes on an opportunity to have both projects delivered by a single Contractor, which Lyles can provide. Should the City elect to award both the ERP and the Expansion Project to Lyles, all of the identified challenges will be resolved before they have an opportunity to create problems. Lyles will have both the motivation and the control necessary to optimize the schedule for both Projects, thereby reducing risk and delivering the best possible value to the City of Roseville.

ADDITIONAL OPPORTUNITY:

Coordination is a major part of every construction project. Managing the flow of work is key to achieving project performance goals, but can be quite challenging when there are numerous parties involved. Earning participant buy-in and commitment to the Project is a process that takes significant time and energy. One of the ways that Lyles can bring added value to both the Expansion and ERP Projects is through its ability to simplify this process. Lyles has strategically selected the same subcontractors and suppliers for specific scopes of work on both projects based on their competitiveness and their capacity for performance. These scopes include: electrical, instrumentation, reinforcing steel, read-mix concrete supply, painting and coating, and asphalt paving, among others. By teaming with Lyles, the City can expect to experience a level of consistency and performance across both Projects that cannot be matched by the competition.



SECTION 3

PROJECT COST REDUCTION OPPORTUNITIES

PROJECT COST REDUCTION OPPORTUNITIES

After thorough review of the EP scope of work, we have identified key items we believe will enhance the existing plan for the new facilities and provide cost savings opportunities during construction. Below is a sample of our proposed project cost reduction opportunities.

Opportunity No. 1: WAS Holding Tank Modification Alternatives

The current design for the new manways at the existing WAS Holding Tans creates several constructability challenges (See Section 2, Digester Area – Task 2 for further discussion). These challenges include overcutting of the wall penetration, installation of the reinforcing steel, and application of the shotcrete finish. The following are alternative approaches that can provide equivalent functionality at a reduced cost without sacrificing quality:



Alternative Approach: Utilize a round manway (of equal area) in lieu of a square design.

Cost Reduction Ingredients: A round wall penetration can be performed with a coredrill rather than a wall saw. Coredrills are not only faster than wall saws, they produce cleaner, more precise openings with no overcuts resulting in a lower total installed cost.



Alternative Approach: Utilize a fiber reinforced structural repair system in lieu of a traditional steel reinforced concrete system.

Cost Reduction Ingredients: Fiber reinforced systems can be specifically designed for any application and typically require substantially less labor to implement. Savings can be as high as 25% compared to traditional structural reinforcing methods.



Additional Benefits:

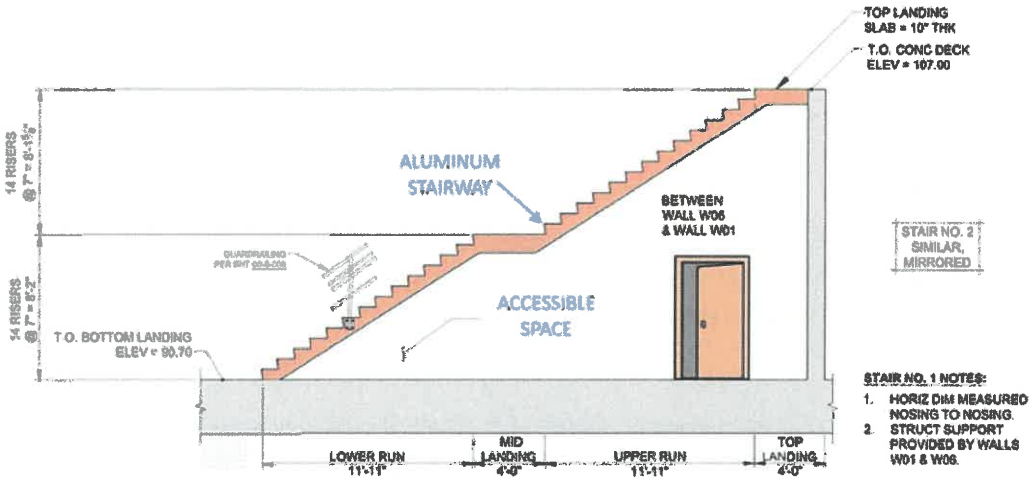
- Faster implementation
- Potential to avoid modifications to the tank stairs
- Potential to limit the overall size of the repair resulting in reduced visual impact

Opportunity No. 2: Primary Clarifier Stairway Alternatives

The current design for the Primary Clarifiers utilizes concrete construction for each of the stairways. Concrete stairway construction is time consuming, costly, and challenging to perform. Additionally, the northern stairways at the Primary Clarifiers must be constructed between two parallel walls which creates the following unique conditions:

- Threaded inserts must be installed in the walls on both sides of the stairwell for future connection to the stairwell reinforcing steel. Any misalignment in these inserts could result in uneven stairs.
- Falsework must be attached to the walls beneath the stairs to support the concrete and rebar during placement. Based on the design, this falsework cannot be stripped and will remain in the void beneath the stairs for the life of the structure. While not necessarily uncommon, this is not ideal.
- The space beneath the stairs is completely unusable and is effectively "lost".

Alternative Approach: Utilizing aluminum construction for the stairways will reduce the complexity of installation by allowing the stairs to be constructed to fit the finished space between the parallel walls. Additionally, a door can be added to provide access underneath the stairs for easy cleaning and maintenance.

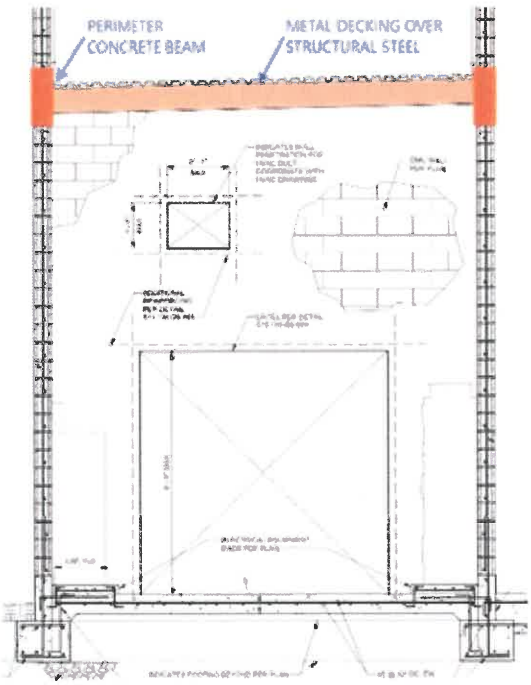


STAIR NO. 1 - SECTION
[LOOKING SOUTH]

Cost Reduction Ingredients: Although more expensive from a material cost standpoint, aluminum stairs require a fraction of the labor to install resulting in a lower total installed cost than concrete construction.

Additional Benefits: Aluminum stairs provide superior traction compared to concrete resulting in safer access and egress under wet weather conditions.

Note: In total, there are 6 sets of stairs at the Primary Clarifiers. The opportunities and benefits described above are applicable at all locations.



Opportunity No. 3: Building Roof Deck Construction Alternative

The current structural design for the Primary Clarifier Electrical Building, the Digester Building, and the Thickener Building utilizes concrete for the roof deck construction. Elevated concrete roofs are time consuming and expensive to construct.

Alternative Approach:

Utilize steel construction for the structural roof and deck members at the Buildings (similar to the ERP design). Aesthetics can be maintained through a number of methods including incorporating a continuous concrete perimeter beam similar to the current design.

Cost Reduction Ingredients:

- Steel is less expensive than equivalent concrete construction due the massive reduction in labor required
- Falsework is not required for steel construction
- Reduced time to construct

Opportunity No. 4: Combine the Expansion and Energy Recovery Projects

The Expansion Project and the Energy Recovery Project will be constructed concurrently. We suggest the City consider the intrinsic value of having a single point of responsibility for both projects.

Cost Reduction Ingredients:

- Reduced job overhead costs through the avoidance of duplicate field offices, temporary utilities, etc.
- Reduced coordination effort for the Engineer, Construction Manager, and Plant Operations staff

Additional Benefits:

- Improved coordination between projects
- Reduced risk of delay and/or conflict between multiple contractors
- Opportunity to mitigate start-up and commissioning risks associated with both projects



SECTION 4

PROJECT TEAM QUALIFICATIONS AND EXPERIENCE

PROJECT TEAM QUALIFICATIONS AND EXPERIENCE

CITY OF ROSEVILLE CALIFORNIA



STAN SIMMONS
Principal



JOE LAWRENCE
Project Sponsor



JOHN LUNSFORD
Senior Project Manager



SCOTT MCELWAIN
Safety Director



JON SHUGARTE
Assistant Project Manager/
Quality Control Manager

If Lyles were to receive award of both the Expansion and the ERP projects, we have the local manpower available to staff both projects as soon as the award is given.

Project Planning

TONY MUELLER
CPM Scheduler

REECE BERGER
Pre-planning Manager

PAT VAN TREECK
Pre-planning Engineer

Project Execution

PROJECT ENGINEER
Civil and Structural

PROJECT ENGINEER
Mechanical and Equipment

CARPENTER SUPERINTENDENT
Concrete

LABORER SUPERINTENDENT
Mechanical

Subcontractors

SAN JOAQUIN ELECTRIC
Electrical and Instrumentation

TESCO CONTROLS
Control Systems Integrator

WARD-HENSHAW
Prestressed Concrete Tank Subcontractor

CMC REBAR
Rebar Subcontractor

The organizational structure will effectively:

- Support the Expansion during both phases with individuals having expertise in the complex planning and execution of construction work.
- Provide executive commitment to communication with the City to ensure all needed resources are provided to the team from Lyles' staff, craft and technical support divisions.

INCLUDED IN THE SIX (6) QUALIFYING PROJECTS IDENTIFIED IN OUR SOQ



STAN SIMMONS - Principal

Mr. Simmons has been involved with Alternative Delivery projects since 1981, including an integral role from the initial conceptual development stage through final construction of more than $1.5 Billion of Water and Wastewater Design-Build Projects, routinely serving as Pre-Construction Services Manager and Executive Sponsor for most of the 100 plus alternative delivery projects delivered at Lyles. This experience with similar projects will provide the City of Roseville with useful early cost and schedule certainty to ensure all information is provided in a timely manner to effectively make value based decisions.

AVAILABILITY: ON DEMAND AND WILL ATTEND MONTHLY EXECUTIVE MEETINGS

RELEVANT PROJECT EXPERIENCE

- City of Davis WWTP Secondary and Tertiary Improvements, DB, Executive Sponsor/Estimator, 2018, $71,558,825
- CR&R Anaerobic Digestion Facility, DB, 2017, Executive Sponsor/Chief Estimator, $33,000,000
- City of Fresno - SE Surface WTP, DBB, Executive Sponsor/Estimator, 2018, $162,089,360



JOE LAWRENCE - Project Sponsor

Joe has 17 years of industry experience in the construction of water and wastewater treatment facilities. During this time, he has overseen numerous Alternative Delivery construction projects with a total value in excess of $200 million. During pre-construction, Joe will channel his previous sponsorship experience to ensure that the project goals are achieved, commit resources to the project, and monitor team performance with the City of Roseville. During construction, he will serve as the first line of off-site management working with John to coordinate project resources and will meet with the City of Roseville on a scheduled basis to review status and performance. Joe will also lend his expertise to assist the team in identifying savings opportunities and avoiding constructability concerns.

AVAILABILITY: 25%

RELEVANT PROJECT EXPERIENCE

- City of Stockton Regional Wastewater Control Facilities Project , DB, Project Sponsor, In Progress +/- $190,000,000
- City of Davis WWTP Secondary and Tertiary Improvements, DB, Construction Manager/Project Sponsor, 2018, $71,558,825
- Linda County Water District – WWTP Upgrade & Expansion, DBB, Project Sponsor, 2012, $29,547,940



JOHN LUNSFORD - Senior Project Manager

John Lunsford has over 29 years of industry experience in the wastewater/water market. John's creative problem-solving capabilities combined with his extensive experience managing self-performed work will ensure that construction advances safely and efficiently. During pre-construction, John will serve as the primary point of contact with the City of Roseville, manage pre-construction services, lead the development of technical solutions and critical decisions. John will also track daily progress to ensure that both the cost report and the schedule have the most up-to-date information. During construction, John will serve as the on-site, primary point of contact with the City and have overall responsibility for team performance including safety, quality, cost, and schedule.

AVAILABILITY: 100%

RELEVANT PROJECT EXPERIENCE

- City of Davis WWTP Secondary and Tertiary Improvements, Sr. Project Manager, 2018, $71,558,825
- Central Contra Costa Sanitary District, Primary Treatment Renovations, Sr. Project Manager, 2001, $11,441,946
- Linda County Water District – WWTP Upgrade & Expansion, Sr. Project Manager, 2012, $29,547,940



JON SHUGARTE - Asst. PM / QC Manager

Jon is a safety-minded PM and Quality Control Manager with 14 years experience in the construction industry and extensive experience in wastewater treatment expansion projects. Working in existing plants has provided Jon the ability to collaborate with owners and project teams and plan work to minimize impacts to operations. During pre-construction, Jon will participate in design support task groups, constructability and value engineering workshops, and work planning and packaging. During construction, Jon will maintain overall responsibility for project quality, of field-worker safety, subcontract coordination, and process equipment installation.

AVAILABILITY: 100%

RELEVANT PROJECT EXPERIENCE

- Linda County Water District – WWTP Upgrade & Expansion, DBB, Project Engineer/QC Manager, 2012, $29,547,940
- Fairfield Suisun Sewer District Secondary Treatment Expansion, DBB, Project Manager, 2009 $21,182,911



SCOTT MCELWAIN - Safety Director
Scott McElwain will serve as the Safety Manager for the PGWWTP ERP. He will be responsible for the planning and implementation of site safety during all field operations of the project. Scott or a Lyles Safety Technician will visit the PGWWTP site weekly and when any critical activities are planned to occur. He will work with our construction team to build safety into our means and methods while considering constructability requirements. Scott is the Lyles Corporate Safety Director and has been involved in construction safety for almost 20 years, with ten of those years at Lyles. Under his leadership, the Lyles Construction Group has received numerous safety awards from various industry groups, and Scott will ensure that this project meets those award winning standards.

AVAILABILITY: 20%

INDUSTRY RECOGNITION

- Fresno Builders Exchange, 2006 Safety Leadership Award
- Cal OSHA Golden Gate Recognition, Calgren Pixley Ethanol Project, November 2007
- Cal OSHA Golden Gate Recognition, City of Tulare IWWTP Project, February 2009



TONY MUELLER - CPM Scheduler
Tony's involvement in the EP will be in identifying major decision points that have the largest potential to impact the overall project cost and schedule. Over his 16 years of construction experience, he has developed the schedule for nearly every project he has been involved with. Tony will work closely with the City of Roseville and the Project Team to ensure that critical path activities are well identified so that they receive the focus that they deserve. He will also be responsible for updating the schedule to reflect the actual work performed, preparing monthly reports and narratives for distribution, and assisting with critical path analysis so that all parties understand the implications of schedule revisions and/or change order work.

AVAILABILITY: 20%

RELEVANT PROJECT EXPERIENCE

- City of Fresno - South East Surface WTP, Senior Project Manager,/CPM Scheduler 2018, $162,089,360
- Moreno Valley RWRF Preliminary Treatment and Acid Phase Anerobic Digestion, CPM Scheduler, 2012, $30,925,375
- Palmdale Water Reclamation Plant Stage Five Plant Expansion, CPM Scheduler, 2012, $116,079,181



REECE BERGER - Pre-plan Manager (Civil & Structural)
Reece will be responsible for the development and execution of purchase agreement and subcontracts, and will collaborate with the City of Roseville to prioritize and procure critical submittals and work packages. Reece will collaborate with City Stakeholders, and project team members to support the most efficient review of submittals, work plans, RFI's, as-built drawings, startup, testing and commissioning plans.

AVAILABILITY: 50%

RELEVANT PROJECT EXPERIENCE

- OCSD Plant 1, Sludge Dewatering and Odor Control, DBB, 2018, Project Manager, $137,944,211
- Western Riverside County Regional WW Authority 14 MGD Plant Expansion, DBB, Project Manager, 2016, $57,822,148
- Moreno Valley RWRF Preliminary Treatment and Acid Phase Anerobic Digestion, Estimator, 2012, $30,925,375



PAT VAN TREECK - Pre-plan Engineer (Mechanical & Equipment)
Pat will participate in constructability reviews; develop work plans, sequencing, and resources; and provide input for cost and schedule. As the Estimator on the WWTP Secondary and Tertiary Improvements Project for the City of Davis, Pat was responsible for preparing the GMP estimate for all piping and mechanical equipment based on a 60% design package. Pat's extensive knowledge and understanding of treatment plant processes and construction enabled a complete and accurate estimate from the 60% conceptual design. During construction, Pat worked closely with the Design team and Client to value engineer the piping systems, which resulted in significant project cost savings. This knowledge and experience will assist the City of Roseville in delivering a high-quality project that is on schedule and within budget.

AVAILABILITY: 50%

RELEVANT PROJECT EXPERIENCE

- City of Davis WWTP Secondary and Tertiary Improvements, Project Manager, 2018, $71,558,825
- OCSD Plant 1, Sludge Dewatering and Odor Control, DBB, 2018, Executive Sponsor/Estimator, $137,944,211
- Palmdale Water Reclamation Plant Stage Five Plant Expansion, CPM Scheduler, 2012, $116,079,181



WADE JOHNSON - Principal
San Joaquin Electric

His 30 years of experience in the industry has given him many insights into the electrical construction field. His experience in managing complex installations is second-to-none and includes: water and wastewater treatment plants, industrial projects, commercial buildings, food processing plants, agricultural installations, automation, PLC control systems, SCADA systems, process instrumentation, pneumatics, petro-chemical facilities, refineries, industrial lighting systems, lighting controls, fiber optics, and security systems. On this project, Wade will take the lead in identifying electrical challenges and opportunities during the design-phase, and ensuring that Fred Lozo, his project manager, has the resources needed to meet the City of Roseville's expectations during the construction phase.

AVAILABILITY: 50%

RELEVANT PROJECT EXPERIENCE

- City of Roseville - Dry Creek WWTP Secondary Clarifier Rehabilitation Project – Sr. Project Manager
- City of Roseville - Pleasant Grove WWTP Ultra-Violet Disinfection Project, Design-Assist – Sr. Project Manager
- City of Roseville - Dry Creek WWTP Cooling Towers Project, Design-Build – Sr. Project Manager



JOSH OAKS - Project Manager
TESCO

With over 20 years of experience in automation systems, Mr. Oaks is an accomplished automation professional who possesses the skills, tact, and experience to lead a project to successful completion. His direct experience in system installation enables him to relate with field implementation teams on project needs, allowing him to efficiently navigate the needs of a project and its deliverables in the most proficient manner. He communicates and coordinates resources while managing contractual obligations and project schedules.

AVAILABILITY: 50%

RELEVANT PROJECT EXPERIENCE

- City of Roseville – SCADA System Replacement Project, Project Manager - experience with the City's automation, SCADA, and PLC standards.
- San Francisco Public Utilities Commission (SFPUC), WW-613 Southeast WPCP SEP 521/522 & Disinfection Upgrades - Project Manager
- San Jose -Santa Clara Regional Wastewater Authority Digesters and Thickener Facilities Upgrade Project - Project Manager

San Joaquin Electric

Wade Johnson has successfully completed three large Design-Assist projects for the city of Roseville along with many hard bid jobs. His extensive knowledge of the City`s electrical and instrumentation specifications and standards make him a valuable asset to the EP. Wade has 15 years of experience coordinating with the City`s I&C department and Roseville Electric with great success. Wade and his project management team are proactive in discovering potential problems long before they become significant issues and can provide timely and cost effective solutions that prevent schedule delays.

San Joaquin Electric (SJE) has been a leader in the commercial electric contracting market since 1980. They have specific expertise in PLC control systems, SCADA systems, process instrumentation, pneumatics, lighting controls, fiber optics, and security systems, all of which are applicable to the EP. Overall, SJE and its leadership set an example of dedication, diligence, and fine workmanship that makes them successful industry professionals.

Tesco Controls Inc.

TESCO has a longstanding relationship with the City of Roseville and has successfully completed numerous projects for the City since 2003. Over the last 15+ years, TESCO has provided the City with control system planning, design, equipment builds, and implementation; including the design, manufacture, assembly, and integration of Industrial Control Panels, Motor Control Centers, and switchgear. These services have been provided by TESCO for all of the City's treatment plants, including Barton Water Treatment Plant, Dry Creek Wastewater Treatment Plant, and Pleasant Grove Wastewater Treatment Plant.

Most recently, TESCO completed a multi-million-dollar design-assist project for the City that involved all of the City's treatment plants. TESCO worked collaboratively with Roseville Environmental Utilities Department (EUD) to bring this project to successful completion. Additionally, TESCO assisted the City in developing their automation standards, including hardware assets such as Motor Control Centers, pump controls, and automation systems. TESCO's history of working collaboratively with the City coupled with their intimate knowledge of the City's system integration requirements makes TESCO the ideal system integrator for this project.

CMC REBAR - Rebar Subcontractor

For over 60 years, CMC Rebar has fabricated, furnished, and installed rebar and accessories for all construction markets. They operate state-of-the-art fabrication facilities in over 90 locations throughout the U.S. With almost 2.5 million tons of fabricating capacity, they have the national presence and capacity to serve all of our rebar needs with the same consistent level of customer service, no matter where the project is located.

CMC Rebar has provided reinforcing steel to many of America's largest landmark construction projects. At each of their facilities, CMC has the estimating, detailing and fabricating experience to manage any project, no matter what the size or schedule demands may be. For the Pleasant Grove Wastewater Treatment Plant Expansion Project, this means that. Lyles will have a proven performance partner with the experience that is required in today's demanding construction environment.

WARD-HENSHAW - Prestressed Concrete Tank Subcontractor

Ward-Henshaw Construction was established in Oregon in 1977 and is currently licensed in Oregon, Washington, and California. They specialize in structural concrete work for commercial buildings and the construction of circumferentially strand-wrapped, prestressed concrete water-storage reservoirs for cities and municipalities in the Western United States. Ward-Henshaw is recognized as an industry leader in the areas of quality, safety, and innovation.

Award Winning Projects:

- APWA Oregon Project of the Year 2014 Environmental Project
- PNWS AWWA Best Large Water Works Project 2013 Project
- APWA Oregon Project of the Year Honorable Mention 2011 Project
- OCAPA 2008 Execellence in Concrete Project
- APWA Arizona Public Works Project of the Year 2004

Lyles is very excited to collaborate with such a qualified and experienced partner for the Pleasant Grove Wastewater Treatment Plant Expansion Project.

ATTACHMENT 1

PROPOSER'S CERTIFICATION OF PROJECT MANAGER EXPERIENCE
PLEASANT GROVE WASTEWATER TREATMENT PLANT EXPANSION PROJECT
To be submitted with Sealed Bid Proposal

The Proposer shall name below their chosen Project Manager who will be assigned to this Project and will be personally present on-site full-time during construction. This named Project Manager must have completed three (3) water and/or wastewater projects since January 1, 2009. One of the listed water and/or wastewater projects must have a contract amount greater than or equal to $45 million. The Project Manager's demonstrated project experience must be on one or more of the following types of projects:

a. Industrial and/or Municipal Water Treatment Plants where the earthwork, structural concrete, mechanical, electrical, and instrumentation systems were part of the Contractor's contract; or

b. Industrial and/or Municipal Wastewater Treatment Plants where the earthwork, structural concrete, mechanical, electrical, and instrumentation systems were part of the Contractor's contract.

Any projects listed below, which are not as defined above, will not be considered by the City in meeting this pre-requisite experience requirement. For example, pipeline projects, and/or pump station projects are not considered an equivalent project.

An industrial and/or municipal water or wastewater treatment plant project is defined as a project that was engineered and constructed for an industrial or municipally owned and operated facility which is designed to remove contaminants, specific constituents, and/or particulates in water and/or wastewater as required by a State issued discharge permit.

Name of Project Manager: John Lunsford

Number of Years of Total Construction experience as a Project Manager assigned to the types of projects as defined above: 29 years

Number of Years as a Project Manager for your Company: 29 years

List three (3) completed water and/or wastewater treatment plant projects as defined above where the individual named above held the position of Project Manager. One of the projects must have a contract value greater than or equal to $45 million.

Project #1 Name: Wastewater Treatment Plant Secondary and Tertiary Improvements Project

Owner: City of Davis

Construction Cost: $ 71,558,825

Construction Time: 1,493 calendar days

Owner's Representative: Diana Jensen

Owner's Representative Telephone No.: (530) 757-5686

Engineer or On-Site Construction Mgr.: City of Davis

Engineer or On-Site CM's Telephone No.: Diana Jensen (530) 757-5686

Date of Substantial Completion (must be on or before Jan. 1, 2009): September 28, 2018

Duration of Project (in months) 49

Project #2 Name: Primary Treatment Renovations

Owner: Central Contra Costa Sanitary District

Construction Cost: $ 11,441,946

Construction Time: 1,229 calendar days

Owner's Representative: Craig Mizutani

Owner's Representative Telephone No.: (925) 229-7361

Engineer or On-Site Construction Mgr.: Central Contra Costa Sanitary District

Engineer or On-Site CM's Telephone No.: Nathan Morales (925) 229-7126

Date of Substantial Completion (must be on or before Jan. 1, 2009): January 22, 2016

Duration of Project (in months) 41

Project #3 Name: Linda County Wastewater Treatment Plant Upgrade

Owner: Linda County Water District

Construction Cost: $ 29,547,940

Construction Time: 335 calendar days

Owner's Representative: Brian Davis

Owner's Representative Telephone No.: (530) 743-2043

Engineer or On-Site Construction Mgr.: Kennedy Jenks Engineering

Engineer or On-Site CM's Telephone No.: Don Barraza (916) 858-2700

Date of Substantial Completion(must be on or before Jan. 1, 2009) : May 23, 2012

Duration of Project (in months) 12

This form shall be fully completed and submitted by the Proposer with the Technical Proposal (Part 1). Proposer is not allowed to provide a substitute form of similar information.

The City may check project references listed above to verify the Project Manager's project experience information provided. The City may also discuss the Project Manager's performance with project references provided above.

It is very important that the Proposer verify that all contact information is current for each name listed above. Failure of the Proposer to provide current and valid project contact information and/or all information required by this certification may be grounds for the City to determine the Proposer to be non-responsive and/or non-responsible and therefore ineligible for consideration of Project award.

ATTACHMENT 2

PROPOSER'S STATEMENT OF SUBCONTRACTORS
PLEASANT GROVE WASTEWATER TREATMENT PLANT EXPANSION PROJECT
To be submitted with Sealed Technical Proposal (Part 1)

The undersigned Proposer submits herewith a list of subcontractors the Contractor proposes to employ on the Work. Said subcontractors will each perform Work in an amount greater than one half of one percent (0.5%) of the Total GMP submitted in their Cost Proposal (Part 2). This list shall include the proper firm name, their license number and class, city and state of each subcontractor, and the portion of the Work to be done by each subcontractor with the understanding that failure to name such subcontractors shall be witness that the Contractor shall have agreed to perform such portion of the Work; and that the Contractor shall not subcontract said portion of the Work; and if a subcontractor is listed, there shall be no substitution of that subcontractor without first obtaining written permission of City Council pursuant to the provisions of Section 4107 of the Public Contract Code. The Contractor shall list only one subcontractor for each portion of the Work to be done as defined by the Contract Documents.

The Proposer's attention is directed to the provisions found in Section IV.B, Section 4 - PROJECT TEAM QUALIFICATIONS AND EXPERIENCE, which stipulates the percent of the Work to be performed with the Proposer's own forces. The City will determine the percentage of the Work self-performed by the Proposer, by subtracting the total percentage of below listed subcontractors work from 100%.

Work to be done by Subcontractor	Percent of Total GMP	Name of Subcontractor	Place of Business (City and State)	CSLB Contractor License Number	DIR Registration Number, and Expiration Date
Asphalt Paving	0.5%	Martin Brothers Construction	Sacramento, CA	726454	1000000017 Exp. 6/30/2022
Falsework	2.1%	Skyline Scaffold, Inc.	Sacramento, CA	858633	1000000114 Exp. 6/30/2020
Reinforcing Steel	2.0%	CMC Rebar	Tracy, CA	778010	1000000298 Exp. 6/30/2022
Prestressed Concrete Tank	8.8%	Ward-Henshaw Construction Co.	Caney, OR	462477	1000020008 Exp. 6/30/2021
Masonry	2.0%	Townsend & Schmidt Masonry	Sacramento, CA	186559	1000000879 Exp. 6/30/2020
Painting & Coatings	2.4%	Mason Painting, Inc.	Orangevale, CA	819987	1000008947 Exp. 6/30/2020
Bridge Cranes	0.8%	Allied Crane, Inc.	Pittsburg, CA	456362	1000005331 Exp. 6/30/2022

Work to be done by Subcontractor	Percent of Total GMP	Name of Subcontractor	Place of Business (City and State)	CSLB Contractor License Number	DIR Registration Number, and Expiration Date
Fire Sprinkler Systems	0.8%	RCM Fire Protection, Inc.	Tracy, CA	793205	1000006192 Exp. 6/30/2022
HVAC	1.7%	James Long Construction Services, Inc.	Sacramento, CA	821827	1000000065 Exp. 6/30/2022
Electrical & Instrumentation	19.4%	San Joaquin Electric, Inc.	Sacramento, CA	410103	1000002857 Exp. 6/30/2020
Prefabricated Aluminum Covers	0.6%	Hallsten Corporation	North Highlands, CA	953403	1000027657 Exp. 6/30/2022

Add additional sheets, if necessary.

ATTACHMENT 3

PROPOSER'S SCHEDULE OF MAJOR EQUIPMENT AND MATERIAL SUPPLIERS PLEASANT GROVE WASTEWATER TREATMENT PLANT EXPANSION PROJECT

To be submitted with Sealed Bid Proposal

1. The undersigned Proposer represents that, if awarded the Agreement, the items of major equipment and materials specified below will be supplied by the manufacturers or suppliers specified below. By so indicating, Proposer warrants that the equipment and materials manufactured and/or supplied by the named manufacturer or supplier will be provided on the Project unless review of submittal information or performance tests reveal that the equipment or material does not meet Contract Document requirements or the manufacturer or supplier is unable to meet the delivery requirements necessary to maintain progress of the Project based upon the accepted baseline CPM construction schedule. Failure to indicate a manufacturer or supplier listed in the following schedule may render the Bid Proposal non-responsive and may be the basis for rejection of the Bid Proposal.

2. All major Equipment shall be included in the bid proposal according to the following:

(a) Not used.

(b) The following Major Equipment Schedule Table designates major equipment items to be provided. All costs for providing these equipment items shall be included in the Bid Proposal (Part 2). The Proposer shall indicate which Manufacturer/Supplier of equipment they propose to provide, by checking ONE of the named, listed items and, if the Proposer desires to propose an "or equal" equipment item, by writing in a proposed "or equal." If the Proposer writes in a proposed "or equal," the Proposer shall also check one of the named, listed items. It is the Proposer's responsibility that all equipment to be provided, either checked or proposed "or equal" write-in, meet the requirements of the Specifications.

(c) The opinion of the City's Representative will be the final determination of whether a write-in "or-equal" meets the design intent. In the event that the City's Representative allows the Proposer's proposed "or equal" material or equipment item for use as an "or equal", the proposed "or equal" material or equipment item shall be provided for the amount included in the GMP with NO change in GMP. Should the write-in proposed "or equal" item be determined "not equal" by the City's Representative, then the Proposer hereby agrees to provide the checked Manufacturer/Supplier item for the amount included in the Proposer's GMP. Should a Proposer fail to indicate which named manufacturer or supplier the Proposer's GMP is based on, or checks more than one named Manufacturer/Supplier per listed equipment item, the Proposer hereby agrees to provide the Manufacturer/Supplier item noted as "A" for the amount included in the Proposer's GMP with NO change in the GMP.

(d) Allowances of proposed "or equal" equipment does not constitute a waiver of the Specifications. Proposed "or equal" equipment is defined as equipment proposed and named by the Proposer under the Manufacturer/Supplier column in the Major Equipment Schedule Table as equal and equivalent to the specified equipment.

(e) Proposed "or equal" equipment will only be considered after award and execution of Agreement by the City Council. For each "or equal" (write-in) equipment item, Contractor shall submit a properly completed, MATERIAL/PRODUCT SUBSTITUTION REQUEST FORM (PER SECTION 01 60 00.01) within thirty-five (35) calendar days after the date of the Notice to Proceed. Proposed "Or Equal" Substitution Form must be completely filled out, certified and include all required supporting documentation to allow the City's Representative and Engineer to assess the "or equal" acceptability of the product or system. Failure to submit all the required information within the established time limit shall be grounds for determination that the proposed "or equal" major equipment item is "not equal" to the named, listed Manufacturer/Supplier equipment item.

(f) Within 30 calendar days after receiving the proposed "or equal" major equipment submittals, the City's Representative will notify Contractor, in writing, as to whether or not the submitted proposed "or equal" equipment, if any, are accepted as meeting the general specification requirements. The consideration of this equipment shall not be construed to indicate final acceptance by the City, nor relieve the Contractor and/or Manufacturer/Supplier of the equipment from providing the post-Agreement award submittal information.

(g) To be deemed equal, the proposed "or equal" equipment shall be the same or better than the specified named product with respect to features, materials of construction, function, performance, reliability, quality, general dimensional configuration, operations and maintenance access and costs, and static and dynamic loads. Determination of equality in reference to the project design requirements will be made by the City's Representative.

(h) No proposed "or equal" major equipment will be considered unless, in the opinion of the City's Representative and Engineer, it conforms to the Contract Drawings and Specifications in all respects, except for make and manufacturer and minor details.

(i) Design of this Project is based upon the Manufacturer/Supplier equipment item noted as the "A" item in the Major Equipment Schedule Table. When a "B," "C," or "D" named item is named in the Major Equipment Schedule Table, the equipment or product of this "B," "C," or "D" named manufacturer or supplier is deemed "or equal" in quality; however, should a Proposer propose providing a "B," "C," or "D" named item, or proposed "or equal" (write-in) equipment, the Proposer shall comply with the following:

1) The Proposer shall include in the GMP all additional costs (including all general construction, process mechanical, HVAC, plumbing, electrical, and instrumentation and control work), required to accommodate, furnish, and install the proposed equipment or material, training, and spare parts.

(2) Contractor shall reimburse the City for Engineer's time and expense charges associated with the review of proposed "or equal" Major Equipment or System submittals, subsequent notification to Contractor of disposition, and any associated modifications to the Drawings.

MAJOR EQUIPMENT OR MATERIAL SCHEDULE
SUPPLIED BY CONSTRUCTION CONTRACTOR
For the PGWWTP EXPANSION PROJECT

SECTION	EQUIPMENT OR MATERIAL	NAME OF EQUIPMENT OR MATERIAL SELECTED Indicate with a check mark within the ( )
13 34 22	Prefabricated Aluminum Flat Covers	A. ( ) CST Covers B. (X) Hallsten Corporation C. ( ) _____ "or equal" write-in
13 34 25	Fiberglass Reinforced Plastic Effluent Weirs and Launders	A. (X) NEFCO Systems Inc. B. ( ) Warminster fiberglass C. (X) Enduro Composites "or equal" write-in
22 13 43	Packaged Wet-Well Grinder Pump System	A. ( ) Zoeller Pump Co. B. ( ) Pentaire Hydromatic C. (X) Crane/Barnes D. ( ) _____ "or equal" write-in
26 24 19	Low-Voltage Motor Control Centers	A. (X) Eaton B. ( ) Allen Bradley C. ( ) _____ "or equal" write-in
26 29 23	Low Voltage Adjustable Frequency Drives	A. ( ) Square D. B. ( ) Allen Bradley C. ( ) ABB D. (X) Eaton No equals
40 05 57.23	Electric Motor Actuators for Valves	Open-Close Service Valves: A. (X) Rotork B. ( ) EIM C. ( ) Limitorque D. ( ) _____ "or equal" write-in Modulating Service Valves: A. (X) Harold Beck & Sons No equals
40 94 43	Programmable Logic Controllers	A. (X) Schneider No equals
41 22 13.13	Bridge Cranes	A. ( ) Craneworks, Inc. B. (X) R&M Materials Handling C. ( ) ACCO D. ( ) _____ "or equal" write-in

SECTION	EQUIPMENT OR MATERIAL	NAME OF EQUIPMENT OR MATERIAL SELECTED Indicate with a check mark within the ( )
42 11 13	Low Pressure Process Boilers	A. (X) Parker B. ( ) Cleaver Brooks C. ( ) _____ "or equal" write-in
43 13 43	Waste Gas Burner	A. (X) Varec B. ( ) _____ "or equal" write-in
43 23 13	Hot Water Pumps	A. (X) Aurora B. ( ) Bell & Gossett C. ( ) _____ "or equal" write-in
43 23 57	Progressing Cavity Pumps	A. (X) Robbin & Myers Moyno B. (X) Seepex "or equal" write-in ~~No equals~~
43 23 59.10	Screw-Type Centrifugal Pumps	A. (X) Wemco B. ( ) Hayward Gordon C. ( ) _____ "or equal" write-in
43 25 13	Overhung Close-Coupled Submersible Centrifugal Pumps	A. (X) Xylem (Flygt) No equals.
43 26 14	Chopper Pumps	A. (X) Vaughan No equals
43 41 43	Chemical Storage Tanks	A. (X) Snyder Industries No equals.
44 31 21	Odor Control Biofilters	A. (X) BOHN Biolfilter Corporation No equals
46 24 23	Inline Grinders	A. (X) JWC Environmental No equals
46 25 43	Tipping Trough Scum Skimming and Removal Equipment	A. (X) Plasti-Fab B. ( ) Polychem Systems C. ( ) _____ "or equal" write-in
46 33 33	Polymer Blending and Feed Equipment	A. (X) VeloDyne No equals
46 33 44	Peristaltic Pumps for Chemical Metering Service	A. (X) Blue-White Industries No equals
46 43 11	Chain-and-Flight Clarifier Equipment	A. (X) Evoqua Water Technologies B. ( ) Senqcia Maxco Ltd. No equals

SECTION	EQUIPMENT OR MATERIAL	NAME OF EQUIPMENT OR MATERIAL SELECTED Indicate with a check mark within the ( )
46 71 33	Rotary Drum Thickening Equipment	A. ( ) FKC B. ( ) Westech C. (X) Parkson No equals
46 73 41	Spiral Type Sludge Heat Exchanger	A. (X) Gooch Thermal B. ( ) Alfa Laval C. ( ) _____ "or equal" write-in

END OF SCHEDULE OF MAJOR EQUIPMENT AND MATERIAL SUPPLIER

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SECTION 5

CONTRACTOR'S QUALITY CONTROL PROGRAM

CONTRACTOR'S QUALITY CONTROL PROGRAM

OVERVIEW

In construction, a Quality Control Program (QCP) can be defined simply as "a systematic Program employed by a Contractor to fulfill a project's requirements for quality as defined by the Contract Documents". At W.M. Lyles Co., (Lyles) we believe that the Contractor always has complete responsibility for the quality of the work and our experience has taught us that in order for a QCP to be successful, it must include the following ingredients:

- Program Organization - Identification of the personnel responsible for implementation of the QCP, their individual responsibilities, and the requirements for communication between project stakeholders
- Program Standards - Identification and definition of the specific quality standards to be met
- Preparatory Controls - Description of the proactive actions that will be taken to ensure that the Program Standards are met
- Confirmation Procedures – Description of the specific actions that will be taken to inspect the work and document activities affecting quality
- Corrective Controls - Description of the corrective actions that will be taken in the event that the Program Standards are not met

Based on this, the following QCP outline has been developed specifically for the Expansion. This outline describes both the methodology and procedures that will be utilized by Lyles to ensure that our finished product complies with all of the Project's quality standards.

QUALITY CONTROL PROGRAM

I. Program Organization

A. Authority and Responsibilities of QC Manager

1. Establishment of the QCP

a. Develop the procedures and controls needed to assure optimum quality throughout all phases of the Project.

b. Assign responsibility for the execution of various QC functions to members of the Project Team.

c. Develop the checklists and forms necessary to document verification that the Work is in compliance with the Contract Documents.

d. Develop the reports and documentation necessary to record the enforcement and effectiveness of the QCP.

2. Implementation and enforcement of the QCP

a. Conduct Pre-Installation Conferences prior to the start of each Division, Section, or major item of Work.

b. Supervise the execution of the various QC functions by members of the Project Team.

c. Verify that all materials, equipment, and procedures utilized in the execution of the work are in conformance with the Program Standards

d. Perform initial, in-process, and final inspections on each segment of work.

e. Identify, report, and reject defective and/or non-conforming work and identify and monitor corrective actions.

f. Generate Monthly QC Report.

II. Program Standards

A. Contract Documents

1. Prescriptive and/or performance based requirements identified in the Specifications

2. Prescriptive and/or performance based requirements identified in the City of Roseville Standard Drawings

3. Prescriptive and/or performance based requirements identified in applicable Building Codes

B. Stakeholder Requirements

1. Quality outcomes desired by the City and its Operations and Maintenance Staff

2. Quality outcomes desired by the Neighborhood and the Community at large

3. Quality outcomes desired by the Engineer

4. Quality outcomes desired by Lyles and its subcontractors and suppliers

III. Preparatory Controls

A. Submittal Control

1. Under the supervision of the QC Manager, the Project Team will review all Submittals prior to them being forwarded to the Engineer for approval. This review will consist of verifying that the Submittals are complete, that they are in conformance with the Contract Documents, and that they have been coordinated with any related and/or affected work.

B. Off-site Quality Control, Inspection, and Material Certification

1. When required by the Contract Documents, Source Quality Control Programs and/or Material Certifications will be furnished by various suppliers. These items, as well as other required qualifications, certifications and test results will be furnished to the Engineer via Submittals under separate cover.

2. When deemed necessary by the QC Manager due to the identification of poor quality material or equipment, copies of a manufacturer's Quality Control Program(s) and/or visits to their off-site facilities may be required.

C. Pre-Work Activities

1. Completion of a Pre-Installation Conference to ensure that the required preparations for the execution of upcoming work have been performed.

2. Review of all relevant Contract Documents, Submittals, RFI's, Change Orders, and the CPM Schedule.

3. Review of all relevant QC procedures, testing and/or inspection requirements, and notification requirements.

4. Verification that all preceding work has been properly completed and accepted by the QC Manager and/or the City's Representative.

5. Physical review to confirm that all materials and equipment needed to execute the work to be performed is on-site, available, and ready to be incorporated.

IV. Confirmation Procedures

A. Initial Inspection

1. Prior to proceeding with additional work of the affected scope, the Initial Inspection must be successfully completed and any related QC Field Observation Memos must be signed-off by the QC Manager

B. In-Process Inspection

1. Once a specific item of work has successfully passed its initial inspection, work may continue to completion. During execution of the work additional reviews will be performed to assure that the quality present during the accepted Initial Inspections is maintained.

2. Noted deficiencies which are repetitive in nature will be brought to the attention of the responsible party for immediate correction via a Field Observation Memo. The QC Team will suspend the work in question until a plan for correction, including a recovery schedule, is submitted and approved by the QC Manager.

C. Final Inspection

1. Once the work of a specific scope has been completed, Final Inspection will be called for by the installing party. The scheduling of this inspection will be accomplished by the installing party's completion of a Final Inspection Request (FIR) which is to be submitted to the QC Manager. Upon receipt of this FIR and prior to performance of the final inspection, the QC Team will verify that all previously issued Field Observation Memos have been cleared and that any required testing has been performed.

2. During the Final inspection, all deficiencies will be recorded on a follow-up Field Observation Memo which will be returned to the responsible party for immediate implementation of any required corrections.

D. Confirmation Tests

1. All confirmation tests required to be performed by the Contractor will be done in accordance with the requirements of the Contract Documents and the applicable Program Standards.

2. All confirmation tests required to be performed by the City will be coordinated and scheduled with the City Representative.

E. Documentation Procedures

1. Upon completion of each inspection and/or test, a record (checklist, form, Field Observation Memo, etc.) will be generated in accordance with the QCP.

V. Corrective Controls

A. Identification and Documentation

1. Deficiencies identified during each phase of the project will be documented through the use of Submittal Review Forms, Daily Inspection Logs, Testing Records, and Field Observation Memos, as applicable.

B. Notification

1. Immediately following the identification and documentation of a deficiency, all responsible parties will be notified and a copy of all relative documentation will be provided.

C. Execution

1. Upon notification, the responsible parties will coordinate with the QC Manager to identify the corrective actions to be taken. Corrective work will not commence without the approval of the QC Manager. All corrective work will be subject to the Confirmation Procedures outlined above.

D. Recurrence Prevention

1. Recurrence of deficiencies is to be avoided at all cost. At the discretion of the QC Manager, parties responsible for repetitive deficiencies may be required to perform more significant corrective actions including, but not limited to, the following:

a. Create modified and/or specialized Quality Control Plans outlining revised techniques for preventing the subject deficiencies.

b. Replace the specific individuals responsible for the deficiencies with qualified staff (includes both craft and management).

c. Have the work performed by a 3rd party at the responsible party's expense.

The Right Experience

Linda County Water District – WWTP Upgrade & Expansion

CONTRACT VALUE: $29,149,127

% OF SELF-PERFORMANCE: 65%

PROJECT RELEVANCE:

1. Numerous shut-downs & tie-ins to existing facilities

2. Included State Revolving Funds and Buy American requirements

3. Plant remained fully operational during construction

4. Clarifiers



Upgrade and expansion of the existing 1 MGD wastewater plant to a 5 MGD Title 22 Reclaimed Water Facility on a 27 acre site. Work included conversion of an existing clarifier to a storage tank, new Influent Diversion Structure, Headworks, Primary Clarifiers, Activated Sludge Basins, Secondary Clarifiers, Filter Feed Pump Station, Tertiary Filters, Control / Blower / Laboratory Building, Sludge Drying Beds, HDPE-lined and concrete-lined Sludge Lagoons, Stormwater Detention Basins, Sludge Thickening Facility, electrical and instrumentation with SCADA integration, site grading, paving and yard piping.

Jon Shugarte, proposed Quality Control Manager for the Expansion, was responsible for ensuring the highest quality standards were met with respect to safety, budget and schedule. Jon worked in collaboration with Linda County Water District to get the project up and running, on-time and under budget. This is typical of Lyles approach to quality, as we self-perform all aspects of Quality Control on many projects, especially for our private clients. This experience has further enhanced the ability of our field forces to deliver unparalled quality with limited oversight. In addition, we work for clients on the other end of the spectrum that have extremely rigid inspection. The combination of these experiences has produced a "do it right the first time" mentality resulting in the best quality in the business.



SECTION 6

CONTRACTOR'S CONSTRUCTION SCHEDULER QUALIFICATIONS



FIRM/TITLE
W. M. Lyles Co.

TENURE WITH FIRM
16 years

EDUCATION
- Bachelor of Science, Construction Management, Northern Arizona University, 2003

RESPONSIBILITIES
- Prepares iterative schedules as part of GMP
- Works with project team on logic, duration, resources
- Develops and maintains pre-construction schedule
- Prepares Project Schedule updates
- Evaluates re-sequence options and schedule savings

TONY MUELLER
CPM Scheduler

16 Years Experience

Tony Mueller is W. M. Lyles Co.'s (Lyles) proposed CPM Scheduler for the Pleasant Grove WWTP Expansion Project. Tony's involvement in the EP will be in identifying major decision points that have the largest potential to impact the overall project cost and schedule. Over his 16 years of construction experience, he has developed the schedule for nearly every project he has been involved with. Tony will work closely with the City of Roseville and the Project Team to ensure that critical path activities are well identified so that they receive the focus that they deserve. He will also be responsible for updating the schedule to reflect the actual work performed, preparing monthly reports and narratives for distribution, and assisting with critical path analysis so that all parties understand the implications of schedule revisions and/or change order work.

One great example of Tony's scheduling capability can be found in Appendix C – Baseline CPM Schedule. The sample CPM schedule included in the Appendix is, in fact, a preliminary schedule for the Expansion Project as developed by Tony.

WHY TONY?
- Proven experience developing CPM schedules for many of Lyles' qualifying projects, including; City of Fresno, SE Surface Water Treatment Facility, and the Moreno Valley Regional Water Reclamation Plant
- 16 years of CPM scheduling experience dealing exclusively in the water and wastewater market
- Lives and works local to the City of Roseville, so he is invested in the successful completion of the EP

RELEVANT PROJECT EXPERIENCE

City of Fresno - SE Surface Water Treatment Facility, DBB, 2018, $162,089,360, Project Executive
Project Relevance:
- CPM Schedule created by Tony
- Two (2) secondary clarifiers
- Included State Revolving Funds and American Iron and Steel requirements

Construction of a complete and operable 80 MGD surface water treatment facility to produce potable drinking water that meets the requirements of California Administrative Code, Title 22 for potable drinking water including; construction of temporary construction facilities, construction of 72" raw water and treated water

transmission piping, two conventional flocculation/ sedimentation pretreatment basins with inclined plate settlers, two concrete intermediate ozone contact basins and an ozone generation facility, eight dual media GAC filters, 8 million gallon treated water reservoir, treated water pump station, chemical building, maintenance building, wash water recovery and solids handling lagoons, wash water recovery pump station, standby generators, electrical substation, site grading and paving, process and utility piping, and site fencing and landscaping. Created and maintained a 3800 activity P6 scheduling for an accelerated 33 month construction schedule. This schedule was cost and resource loaded.

Moreno Valley Regional Water Reclamation Plant, DBB, 2012, $30,925,370, Senior Project Manager/CPM Scheduler
Project Relevance:
- Plant expansion
- Odor control facility
- Anerobic digesters

Upgrade of existing 15.8MGD water reclamation plant to 18.5MGD, including yard structures, headworks, influent pump station, grit basins, powfer and blower buildings, chemical scrubber odor control facility, secondary effluent pump station, tertiary effluent/utility water pump station, tertiary effluent meter vault, acid-phase digester and flare, methane-phase digester, digested sludge storage tanks, low pressure digester gas holder, 15KW generator, boiler facility, electrical buildings, and related appurtenances.

Palmdale Water Reclamation Plant Stage Five Plant Expansion, Phase I, DBB, 2012, $116,079,181, Project Manager
Project Relevance:
- Plant Expansion Upgrade
- Digesters
- Included State Revolving Funds
- Plant remained fully operational during construction

Expansion of existing 9MGD water reclamation plant to 15MGD, including final sedimentation tanks, aeration tanks, chlorine contact tank, digester, digester cleaning bed, Title 22 tertiary cloth disk filters, dissolved air flotation units, RAS pump station, digester transfer and sludge recirculation pump station, chemical facilities, generator and air compressor buildings, boiler house, switchboard building, operations and lab building, and associated pipelines.

Linda County Water District, WWTP Upgrade & Expansion, DBB, 2012, Executive Sponsor, $29,547,940
Project Relevance:
- Two (2) primary clarifiers
- Two (2) secondary clarifiers
- Electrical & Instrumentation systems
- WWTP upgrade and expansion

Construction of a new 5MGD Wastewater Treatment Plant on a 27 acre site adjacent to an existing treatment plant. New facilities include a headworks, two primary clarifiers, four activated sludge basins, two secondary clarifiers, filter pump station, six effluent filters, sludge thickening system, sludge drying beds, sludge lagoons, site grading, and associated piping, electrical, and instrumentation systems. Upgrades to the existing plant include the demolition of existing facilities and modifications to the existing effluent pump station.



SECTION 12

IRAN CONTRACTING ACT DISCLOSURE

ATTACHMENT 6

IRAN CONTRACTING ACT DISCLOSURE FORM
To be submitted with Sealed Technical Proposal (Part 1)

GENERAL

GENERAL REQUIREMENTS

PURSUANT TO THE IRAN CONTRACT ACT OF 2010 (CALIFORNIA PUBLIC CONTRACT CODE, SECTIONS 2202-2208), PROPOSERS ARE INELIGIBLE TO PROPOSE ON PROJECTS WITH A PUBLIC ENTITY FOR GOODS OR SERVICES OF ONE MILLION DOLLARS ($1,000,000) OR MORE IF THE PROPOSER ENGAGES IN INVESTMENT ACTIVITIES IN IRAN.

PROPOSERS MUST PROVIDE THE BELOW DISCLOSURE FORM AS A MANDATORY SUBMITTAL FOR ALL PROJECTS IN EXCESS OF $1,000,000. THE IRAN CONTRACTING ACT DISCLOSURE FORM SHALL BE SUBMITTED BY ALL PROPOSERS AS A MANDATORY SUBMITTAL.

(California Public Contract, Sections 2202-2208)

When responding to a bid or proposal or executing a contract or renewal for a City contract for goods or services of $1,000,000 or more, a vendor must either: a) certify it is **not** on the current list of persons engaged in investment activities in Iran created by the California Department of General Services ("DGS") pursuant to Public Contract Code section 2203(b) and is not a financial institution extending twenty million dollars ($20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS; or b) demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code Section 2203(c) or (d).

To comply with this requirement, please provide your vendor or financial institution name and complete **one** of the options on the following page. Please note: California law establishes penalties for providing false certifications, including civil penalties equal to the greater of $250,000 or twice the amount of the contract for which the false certification was made; contract termination; and three-year ineligibility to bid on contracts. (Public Contract Code section 2205.)

OPTION #1 – CERTIFICATION

I, the official named below, certify I am duly authorized to execute this certification on behalf of the vendor/financial institution identified below, and the vendor/financial institution identified below is **not** on the current list of persons engaged in investment activities in Iran created by DGS and is not a financial institution extending twenty million ($20,000,000) or more in credit to another person/vendor, for 45 days or more, if that other person/vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

Vendor Name/Financial Institution (Printed) W. M. Lyles Co.	
By (Authorized Signature)	
Printed Name and Title of Person Signing Joseph B. Lawrence, Asst. Vice President	
Date Executed 7/29/2019	*Executed in* Rocklin, CA

OPTION #2 – EXEMPTION

Pursuant to Public Contract Code sections 2203(c) and (d), a public entity may permit a vendor/financial institution engaged in investment activities in Iran, on a case-by-case basis, to be eligible for, or to bid on, submit a proposal for, or enters into or renews, a contract for goods and services.

If you have obtained an exemption from the certification requirement under the Iran Contracting Act, please fill out the information below, and attach documentation demonstrating the exemption approval.

Vendor Name/Financial Institution (Printed)	
By (Authorized Signature)	
Printed Name and Title of Person Signing	
Date Executed	*Executed in*



SECTION 13

PROPOSER CERTIFICATIONS AND SIGNATURES PROPOSAL FORM

ATTACHMENT 7

PROPOSER'S CERTIFICATIONS AND SIGNATURES
PLEASANT GROVE WASTEWATER TREATMENT PLANT EXPANSION PROJECT
To be submitted with Sealed Technical Proposal (Part 1)

In response to the Request for Bid Proposals (RFBP), Section I, dated June 3, 2019 and in accordance with the accompanying SELECTION PROCESS AND INSTRUCTIONS TO PROPOSERS, Section II, the undersigned hereby proposes to City to furnish all plant, labor, technical and professional services, supervision, materials, and equipment (other than materials and equipment specified as furnished by City), and to perform all operations necessary and required for construction of the Pleasant Grove Wastewater Treatment Plant Expansion Project, in accordance with the Contract Documents, and any Addenda thereto, for the Total Guaranteed Maximum Price (GMP) and all other terms submitted in the Bid Proposal.

This Bid Proposal constitutes a firm offer to City, which cannot be withdrawn for 120 days from and after the date set for receiving Bid Proposals, or until the Agreement is fully executed by City, whichever is earlier.

The undersigned Proposer hereby certifies that it has examined and is fully familiar with all of the provisions of the Contract Documents; has carefully checked all of the words and figures shown on its Bid Proposal; has carefully reviewed the accuracy of all statements in this Bid Proposal and attachments hereto; and understands and agrees that City will not be responsible for any errors or omissions on the part of the undersigned in preparing this Bid Proposal.

The undersigned Proposer has, by careful examination of the Contract Documents, and by examination of the actual Site conditions, satisfied itself as to the nature and location of all Work, the general and local conditions to be encountered in the performance of any Work, the requirements of the Contract Documents, and all other matters that can in any way affect the Work or the cost thereof.

The undersigned agrees to execute the Agreement and provide City the executed Agreement, the required insurance certificates, endorsements, and waivers of subrogation, and the required surety bonds within fifteen (15) calendar days after the undersigned's receipt of the City's notice that the undersigned will be recommended for Project award and prior to award of the Agreement by the City Council.

The undersigned Proposer certifies that it is now licensed in accordance with the provisions of the Contractor's License Law of the State of California, and the number of said license is 422390 and the classification of said license is A, B, and the said license expires 5/31/2020.

The undersigned Proposer certifies that it is now registered with the Department of Industrial Relations (DIR) to do public work pursuant to California Labor Code Section 1725.5. The number of said registration is 1000001448, and the said registration expires 6/30/2022.

The undersigned Proposer certifies that no official or employee of the City has an interest, has been employed or retained to solicit or aid in the procuring of the resulting agreement, nor that any such person will be employed in the performance of such work without immediate divulgence of such fact to the City. Proposers submitting a Bid Proposal in response to this RFBP must disclose any actual, apparent, direct, indirect, or potential conflicts of interest that may exist with respect to the Proposer or the Proposer's management or employees relative to the services to be provided to the City. Conflict of interest issues may require consultation with legal counsel. **If a Proposer has no conflicts of interest, a statement to that effect must be added to this ATTACHMENT 7.** Violation of this section shall be a material breach of the Agreement entitling the City to any and all remedies by law or in equity.

The undersigned Proposer certifies that no undue influence or pressure is used against or in concert with any officer or employee of the City in connection with the award or terms of the Agreement that will be executed as a result of this RFBP, including any method of coercion, confidential financial arrangement or financial inducement. No officer or employee of the City shall receive compensation, directly or indirectly, from the Proposer, or from any officer, employee or agent of the Proposer, in connection with the award of the Agreement or any Work to be conducted as a

result of this RFBP. Violation of these requirements shall be a material breach of the contract entitling the City to any and all remedies by law or in equity.

The undersigned Proposer certifies that the designated project team, including subcontractors, will be used for this Project. Departure or reassignment of, or substitution for, any member of the designated project team or subcontractors shall not be made without the prior written approval of the City.

The undersigned Proposer acknowledges receipt, understanding, and full consideration of the following Addenda:

Addendum Number	Addendum Date	Signature of Proposer
1	6/17/19	
2	6/26/19	
3	7/3/19	
4	7/12/19	
5	7/22/19	

IF PROPOSER IS:
An Individual

Name (typed or printed): N/A

By: _____
(Individual's signature)

Doing business as: _____

Business Address: _____

Phone Number: ( ) _____ FAX Number: ( ) _____

Email Address of Authorized Representative: _____

A Partnership

Partnership Name (typed or printed): N/A

By: _____
(Signature of general partner- attach evidence of authority to sign)

Name (typed or printed): _____

Business Address: _____

Phone Number: ( ) _____ FAX Number: ( ) _____

Email Address of Authorized Representative: _____

A Corporation

Corporation Name (typed or printed): W. M. Lyles Co.

State of Incorporation: California

By: _____ (SEAL)
(Signature - attach evidence of authority to sign)

Name (typed or printed): Joseph B. Lawrence

Title: Asst. Vice President

(CORPORATE SEAL)

Attest: _____
(Signature of Corporate Secretary)

Name (typed or printed): Ruben Moreno, Jr., Secretary

Date of Qualification to do business is: 5/19/1982

Business Address: 1210 W. Olive Avenue, Fresno, CA 93728

Phone Number: (559)441-1900 FAX Number: (559)487-7949

Email Address of Authorized Representative: jlawrence@wmlylesco.com

If person executing on behalf of a Corporation is not the President or Vice President, evidence of authority to sign on behalf of Corporation must be attached.

A Limited Liability Company

Limited Liability Company Name: N/A

By: _____

(Signature of Managing Partner or Officer - attach evidence of authority to bind the LLC under the LLC's articles of organization)

Name (typed or printed): _____

Title: _____

Business Address: _____

Phone Number: ( ) _____ FAX Number: ( ) _____

Email Address of Authorized Representative: _____

CERTIFICATION

This is to certify that I, Ruben Moreno, Jr., am the Secretary of W. M. Lyles Co., that W. M. Lyles Co. (formerly known as Pac-Nine Construction), is a California Corporation incorporated May 6, 1982, and that the attached Sections 7, 8, 9, and 10 from Article IV of the Bylaws are true and accurate copies, and that said Bylaws were duly adopted by the Board of Directors of the Corporation at its meeting on December 14, 1983, and Sections 7, 8, 9, and 10 of Article IV have not been amended to this date.

I further certify that at various duly called meetings of the Board of Directors of W. M. Lyles Co. held on October 4, 2010, October 11, 2012, June 17, 2013, October 1, 2013, May 19, 2017, March 29, 2018, October 1, 2018, and July 1, 2019, the following officers were elected:

Stanley H. Simmons – President/CEO/Treasurer (CFO)
Kenneth D. Strosnider – Executive Vice President
Robert P. Saleen – Senior Vice President
Kevin R. Shigematsu – Vice President
David H. O'Dear – Assistant Vice President/Assistant Secretary
Joseph B. Lawrence – Assistant Vice President
Anthony M. Mueller – Assistant Vice President
Ruben Moreno, Jr. - Secretary
Scott R. Fults – Assistant Secretary
Chanel L. Prince – Assistant Secretary

I also certify as of the date of this certification no changes have occurred.

DATED: July 29, 2019

Ruben Moreno, Jr.
Secretary

all members of the Board shall individually or collectively consent in writing to such action. Such written consent or consents shall be filed with the minutes of the proceedings of the Board.

ARTICLE IV

OFFICERS

Section 1. OFFICERS. The officers of the corporation shall be a Chief Executive Officer, a President, a Secretary and a Chief Financial Officer. The corporation may also have, at the discretion of the Board of Directors, a Chairman of the Board, one or more vice presidents, and one or more assistant secretaries or treasurers and such other officers as may be appointed in accordance with the provisions of Section 3 of this Article. Officers other than the Chairman of the Board need not be directors. One person may hold two or more offices.

Section 2. ELECTION. The officers of the corporation, except such officers as may be appointed in accordance with the provisions of Section 3 or Section 5 of this Article, shall be chosen annually by the Board of Directors, and each shall hold his office until he shall resign or shall be removed or otherwise disqualified to serve, or his successor shall be elected and qualified. Officers need not be shareholders of the corporation.

Section 3. SUBORDINATE OFFICERS, ETC. The Board of Directors may appoint such other officers as the business of the corporation may require, each of whom shall hold office for such period, have such authority and perform such duties as are provided in the By-laws or as the Board of Directors may from time to time determine.

Section 4. REMOVAL AND RESIGNATION. Any officer may be removed, either with or without cause, by a majority of the directors at the time in office, at any regular or special meeting of the Board or by any officer upon whom such power of removal may be conferred by the Board of Directors.

Any officer may resign at any time by giving written notice to the Board of Directors or to the Chief Executive Officer or to the Secretary of the corporation. Any such resignation shall take effect at the date of the receipt of such notice or at any later time specified therein; and, unless otherwise specified therein, the acceptance of such resignation shall not be necessary to make it effective.

Section 5. VACANCIES. A vacancy in any office because of death, removal, resignation, disqualification or any other cause shall be filled in the manner prescribed in the By-laws for regular appointments to such office.

Section 6. CHAIRMAN OF THE BOARD. The Chairman of the Board, if there shall be such an officer, shall, if present, preside at all meetings of the Board of Directors and exercise and perform such other powers and duties as may be from time to time assigned to him by the Board of Directors or prescribed by the By-laws.

Section 7. CHIEF EXECUTIVE OFFICER. Subject to such supervisory powers, if any, as may be given by the Board of Directors to the Chairman of the Board, if there be such an officer, the Chief Executive Officer shall, subject to the control of the Board of Directors, have general supervision, direction and control of the business and officers of the corporation. He shall preside at all meetings of the shareholders and, in the absence of the Chairman of the Board, or if there be none, at all meetings of the Board of Directors. He shall be ex officio a member of all the standing committees, including the Executive Committee, if any, and shall have the general powers and duties of management usually vested in the office of president of a corporation and shall have such other powers and duties as may be prescribed by the Board of Directors or the By-laws.

Section 8. PRESIDENT. In the absence or disability of the Chief Executive Officer, the President shall perform all of the duties of the Chief Executive Officer and when so acting shall have all of the powers of and be subject to all of the restrictions on the Chief Executive Officer. The President shall have such other powers and perform such other duties as from time to time may be prescribed by the Chief Executive Officer, the Board of Directors or the By-Laws.

Section 9. VICE PRESIDENT. In the absence or disability of the President, the vice presidents in order of their rank as fixed by the Board of Directors or, if not ranked, the Vice President designated by the Board of Directors, shall perform all the duties of the President, and when so acting shall have all the powers of and be subject to all the restrictions upon the President. The vice presidents shall have such other powers and perform such other duties as from time to time may be prescribed for them, respectively, by the Board of Directors or the By-laws.

Section 10. SECRETARY. The Secretary shall keep, or cause to be kept, a book of minutes at the principal

office or such other place as the Board of Directors may order of all meetings of directors and shareholders, with the time and place of holding, whether regular or special, and, if special, how authorized, the notice thereof given, the names of those present at directors' meetings, the number of shares present or represented at shareholders' meetings and the proceedings thereof.

The Secretary shall keep, or cause to be kept, at the principal office or at the office of the corporation's transfer agent a share register or a duplicate share register showing the names of the shareholders and their addresses, the number and classes of shares held by each, the number and date of certificates issued for the same, and the number and date of cancellation of every certificate surrendered for cancellation.

The Secretary shall give, or cause to be given, notice of all meetings of the shareholders and of the Board of Directors required by law or by the By-laws to be given, and he shall keep the seal of the corporation in safe custody and shall have such other powers and perform such other duties as may be prescribed by the Board of Directors or the By-laws.

Section 11. CHIEF FINANCIAL OFFICER. The Chief Financial Officer shall keep and maintain, or cause to be kept and maintained, adequate and correct accounts of the properties and business transactions of the corporation, including accounts of its assets, liabilities, receipts, disbursements, gains, losses, capital, surplus and shares. Any surplus, including earned surplus, paid-in surplus and surplus arising from a reduction of stated capital, shall be classified according to source and shown in a separate account. The books of account shall at all times be open to inspection by any director.

The Chief Financial Officer shall deposit all moneys and other valuables in the name and to the credit of the corporation with such depositaries as may be designated by the Board of Directors. He shall disburse the funds of the corporation as may be ordered by the Board of Directors, shall render to the Chief Executive Officer and directors, whenever they request it, an account of all of his transactions as Chief Financial Officer and of the financial condition of the corporation and have such other powers and perform such other duties as may be prescribed by the Board of Directors or by the By-laws.

Attachment 7

Conflict of Interest

We hereby certify that no official or employee of the City has an interest, has been employed or retained to solicit or aid in the procuring of the resulting agreement, nor that any such person will be employed in the performance of such without immediate divulgence of such fact to the City.

W. M. Lyles Co.



Joseph B. Lawrence, Asst. Vice President



SECTION 14

SWRCB CWSRF FORMS

ATTACHMENT 8

Disadvantaged Business Enterprise (DBE) Program DBE Subcontractor Performance Form

This form is intended to capture the DBE[1] subcontractor's[2] description of work to be performed and the price of the work submitted to the prime contractor. A Financial Assistance Agreement Recipient must require its prime contractor to have its DBE subcontractors complete this form and include all completed forms in the prime contractor's bid or proposal package.

Subcontractor Name Allied Crane, Inc.		Project Name Pleasant Grove WWTP Expansion Project
Bid / Proposal No. U07029RD	Assistance Agreement ID No. (If known)	Point of Contact Richard Denijs
Address 855 North Parkside Drive, Pittsburg, CA 94565		
Telephone No. 925-427-9200		Email Address richard@alliedcrane.us
Prime Contractor Name W. M. Lyles Co.		Issuing/Funding Entity Clean Water State Revolving Fund

Contract Item Number	Description of Work Submitted from the Prime Contractor Involving Construction, Services, Equipment or Supplies	Price of Work Submitted to the Prime Contractor
41 22 23 13.13	BRIDGE CRANES	$349,791.13

DBE Certified By: DOT SBA Other: Dept. of General Services SBE 50376	Meets/exceeds EPA certification standards? YES NO (Unknown)

[1] A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.2015 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

[2] Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an award of financial assistance.

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	Print Name
	Joseph B. Lawrence
Title	**Date**
Asst. Vice President	July 22, 2019

Subcontractor Signature	Print Name
	Richard de Nijs
Title	**Date**
Project Manager	07/29/2019

The public reporting and record keeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Do not send the completed form to this address.

FORM 4500-3 (DBE Subcontractor Performance Form)

ATTACHMENT 8

Disadvantaged Business Enterprise (DBE) Program DBE Subcontractor Performance Form

This form is intended to capture the DBE[1] subcontractor's[2] description of work to be performed and the price of the work submitted to the prime contractor. A Financial Assistance Agreement Recipient must require its prime contractor to have its DBE subcontractors complete this form and include all completed forms in the prime contractor's bid or proposal package.

Subcontractor Name James Long Construction Services, Inc.	Project Name Pleasant Grove Wastewater Treatment Plant Expansion Project	
Bid / Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact Brad Tucker
Address 8560 Younger Creek Dr., Sacramento, CA 95828		
Telephone No. 916-379-9524	Email Address btucker@jameslongconstruction.com	
Prime Contractor Name W. M. Lyles Co.	Issuing/Funding Entity Clean Water State Revolving Fund	

Contract Item Number	Description of Work Submitted from the Prime Contractor Involving Construction, Services, Equipment or Supplies	Price of Work Submitted to the Prime Contractor
	HVAC Systems Foul Air Systems Sheet Metal Flashing	$1,038,000.00

DBE Certified By: ___ DOT X SBA Other: _____	Meets/exceeds EPA certification standards? X YES NO . Unknown

[1] A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.2015 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

[2] Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an award of financial assistance.

FORM 4500-3 (DBE Subcontractor Performance Form)

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	Print Name
	Joseph B. Lawrence
Title	Date
Asst. Vice President	July 29, 2019

Brad Tucker Digitally signed by Brad Tucker DN: cn=Brad Tucker, o=James Long Construction Services, Inc., ou, email=btucker@jameslongcon struction.com, c=US Date: 2019.07.25 09:28:20 -07'00' Subcontractor Signature	Print Name
	Brad Tucker
Title	Date
Vice President	July 25, 2019

The public reporting and record keeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Do not send the completed form to this address.

FORM 4500-3 (DBE Subcontractor Performance Form)

ATTACHMENT 8

Disadvantaged Business Enterprise (DBE) Program DBE Subcontractor Performance Form

This form is intended to capture the DBE[1] subcontractor's[2] description of work to be performed and the price of the work submitted to the prime contractor. A Financial Assistance Agreement Recipient must require its prime contractor to have its DBE subcontractors complete this form and include all completed forms in the prime contractor's bid or proposal package.

Subcontractor Name **Martin Brothers Construction**		Project Name Pleasant Grove WWTP Expansion Project
Bid / Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact **Nick Rutherford, Estimator**
Address **8801 Folsom Blvd Suite 260 Sacramento, CA 95826**		
Telephone No. **916-381-0911**		Email Address **estimating@martinbrothers.net**
Prime Contractor Name W. M. Lyles Co.		Issuing/Funding Entity Clean Water State Revolving Fund

Contract Item Number	Description of Work Submitted from the Prime Contractor Involving Construction, Services, Equipment or Supplies	Price of Work Submitted to the Prime Contractor
	Asphalt Site Paving	**$239,670.00**
	Asphalt Site Trench Patching	**$52,800.00**
DBE Certified By: **N/A** DOT **N/A** SBA Other: *** See Below**	Meets/exceeds EPA certification standards? YES NO (Unknown)	

*** Martin Brothers Construction is currently only certified as a MBE under the Supplier Clearinghouse Utility Supplier Diversity Program of the California Public Utilities Commission**

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[2] Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an award of financial assistance.

FORM 4500-3 (DBE Subcontractor Performance Form)

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	Print Name
	Joseph B. Lawrence
Title	Date
Asst. Vice President	July 29, 2019

Subcontractor Signature	Print Name
	Nick Rutherford
Title	Date
Estimator	July 26, 2019

The public reporting and record keeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Do not send the completed form to this address.

FORM 4500-3 (DBE Subcontractor Performance Form)

Water Boards

ATTACHMENT 8

Disadvantaged Business Enterprise (DBE) Program DBE Subcontractor Performance Form

This form is intended to capture the DBE[1] subcontractor's[2] description of work to be performed and the price of the work submitted to the prime contractor. A Financial Assistance Agreement Recipient must require its prime contractor to have its DBE subcontractors complete this form and include all completed forms in the prime contractor's bid or proposal package.

Subcontractor Name: Mason Painting		Project Name: Pleasant Grove WWTP Expansion
Bid / Proposal No.	Assistance Agreement ID No. (if known): 55943	Point of Contact: Gus Kelley
Address: P.O. Box 1115 Orangevale CA 95662		
Telephone No.: (916) 852-8060		Email Address: guskelleymasonpaint@gmail.com
Prime Contractor Name: W. M. Lyles Co.		Issuing/Funding Entity: Clean Water State Revolving Fund

Contract Item Number	Description of Work Submitted from the Prime Contractor Involving Construction, Services, Equipment or Supplies	Price of Work Submitted to the Prime Contractor
	Painting & Coatings	$1,998,238.00

DBE Certified By: ___ DOT X SBA

Other: _____

Meets/exceeds EPA certification standards? YES NO (Unknown)

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[2] Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an award of financial assistance.

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	Print Name
	Joseph B. Lawrence
Title	**Date**
Asst. Vice President	July 29, 2019

Subcontractor Signature	Print Name
	Scott Dorn
Title	**Date**
Treasurer	7/26/2019

The public reporting and record keeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Do not send the completed form to this address.

FORM 4500-3 (DBE Subcontractor Performance Form)

ATTACHMENT 8

Water Boards

Disadvantaged Business Enterprise (DBE) Program DBE Subcontractor Performance Form

This form is intended to capture the DBE[1] subcontractor's[2] description of work to be performed and the price of the work submitted to the prime contractor. A Financial Assistance Agreement Recipient must require its prime contractor to have its DBE subcontractors complete this form and include all completed forms in the prime contractor's bid or proposal package.

Subcontractor Name	Project Name	
Skyline Scaffold, Inc.	Pleasant Grove WWTP Expansion Project	
Bid / Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact
WM72519		Kevin Macpherson
Address		
3131 52nd Ave, Sacramento, CA 95823		
Telephone No.	Email Address	
916-391-8929	Kevin@Skyline Scaffold.com	
Prime Contractor Name	Issuing/Funding Entity	
W. M. Lyles Co.	Clean Water State Revolving Fund	

Contract Item Number	Description of Work Submitted from the Prime Contractor Involving Construction, Services, Equipment or Supplies	Price of Work Submitted to the Prime Contractor
	False & Formwork for elected concrete slabs.	1,061,273.00
	Rental Tax (per 28 days)	3,062.50

DBE Certified By:	Meets/exceeds EPA certification standards?
DOT ✓ SBA	YES NO ✓ Unknown
Other:	

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[2] Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an award of financial assistance.

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c)

Prime Contractor Signature	Print Name
	Joseph B. Lawrence
Title	Date
Asst. Vice President	July 29, 2019

Subcontractor Signature	Print Name
	Kevin MacPherson
Title	Date
Estimator / P.M.	7/29/19

The public reporting and record keeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Do not send the completed form to this address.

FORM 4500-3 (DBE Subcontractor Performance Form)

ATTACHMENT 9

Disadvantaged Business Enterprise (DBE) Program DBE Subcontractor Utilization Form

This form is intended to capture the prime contractor's actual and/or anticipated use of identified certified DBE[1] subcontractor's[2] and the estimated dollar amount of each subcontract. A Financial Assistance Agreement Recipient must require its prime contractors to complete this form and include it in the bid or proposal package. Prime contractors should also maintain a copy of this form on file.

Prime Contractor Name W. M. Lyles Co.	Project Name Pleasant Grove Wastewater Treatment Plant Expansion Project	
Bid / Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact Joseph B. Lawrence
Address 1210 W. Olive Avenue, Fresno, CA 93728		
Telephone No. (559) 441-1900	Email Address jlawrence@wmlylesco.com	
Issuing/Funding Entity SWRCB CWSRF		

I have identified potential DBE certified subcontractors. (YES) NO ___

If *yes*, please complete the table below. If *no*, please explain:

Subcontractor Name/ Company Name	Company Address / Phone / Email	Estimated Dollar Amount	Currently DBE Certified?
James Long Construction Services, Inc.	8560 Younger Creek Drive, Sacramento, CA 95828 Phone: (916) 379-9524 Email: btucker@jameslongconstruction.com	$1,038,000.00	Yes
Martin Brothers Construction	8801 Folsom Blvd., Suite 260, Sacramento, CA 95826 Phone: (916) 381-0911 Email: estimating@martinbrothers.net	$292,470.00	Yes
Mason Painting, Inc.	P.O. Box 1115, Orangevale, CA 95662 Phone: (916) 852-8060 Email: guskelleymasonpaint@gmail.com	$1,998,238.00	Yes

–Continue on back if needed–

[1] A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.2015 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

[2] Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an award of financial assistance.

ATTACHMENT 9

Disadvantaged Business Enterprise (DBE) Program DBE

Subcontractor Utilization Form (continued)

Subcontractor Name/ Company Name	*Company Address / Phone / Email*	*Estimated Dollar Amount*	*Currently DBE Certified?*
Allied Crane, Inc.	855 North Parkside Drive, Pittsburg, CA 94565 Phone: (925) 427-9200 Email: richard@alliedcrane.us	$349,791.13	Yes
Skyline Scaffold, Inc.	3131 52nd Avenue, Sacramento, CA 95823 Phone: (916) 391-8929 Email: kevin@skylinescaffold.com	$1,061,273.00	Yes

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	Print Name
	Joseph B. Lawrence
Title	Date
Asst. Vice President	7/29/2019

The public reporting and record keeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Do not send the completed form to this address.

FORM 4500-4 (DBE Subcontractor Utilization Form)

ATTACHMENT 10

CONSOLIDATED APPROPRIATIONS ACT
BUY AMERICAN IRON AND STEEL CERTIFICATION

Project: PLEASANT GROVE WASTEWATER TREATMENT PLANT EXPANSION PROJECT

1. Identification of American-made Iron, Steel, and Manufactured Goods: Consistent with the terms of the Purchaser's bid solicitation and provisions of Section 436 of the Consolidated Appropriations Act of 2014, the Proposer certifies that this Bid Proposal reflects the Proposer's best, good faith effort to identify domestic sources of iron, steel, and manufactured goods for every component contained in the bid solicitation where such American-made components are available on the schedule and consistent with deadlines prescribed in or required by the bid solicitation.

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    a. Identification of and citation to a categorical waiver published by the U.S. Environmental protection Agency in the Federal Register that is applicable to such component or components, and an analysis that supports its applicability to the component or components;

    b. Verifiable documentation sufficient to the Purchaser, as required in the bid solicitation or otherwise, that the Proposer has sought to secure American-made components but has determined that such components are not available on the schedule and consistent with the deadlines prescribed in the bid solicitation, with assurance adequate for the Proposer under the applicable conditions stated in the bid solicitation or otherwise.

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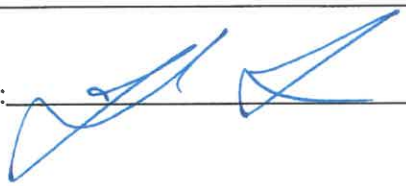
THE UNDERSIGNED CERTIFIES THAT THE CONTRACTOR WILL COMPLY WITH THE ABOVE REQUIREMENTS.

CONTRACTOR OR SUBCONTRACTOR NAME: W. M. Lyles Co.

CERTIFIED BY:

NAME: Joseph B. Lawrence TITLE: Asst. Vice President

SIGNATURE:  DATE: July 29, 2019

END OF ATTACHMENT 10

END OF ENVELOPE ONE, SEALED TECHNICAL PROPOSAL (PART 1)

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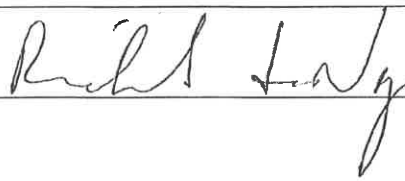
THE UNDERSIGNED CERTIFIES THAT THE CONTRACTOR WILL COMPLY WITH THE ABOVE REQUIREMENTS.

CONTRACTOR OR SUBCONTRACTOR NAME: ALLIED CRANE, INC.

CERTIFIED BY:

NAME: Richard de Nijs TITLE: Project Manager

SIGNATURE:  DATE: 7/25/2019

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THE UNDERSIGNED CERTIFIES THAT THE CONTRACTOR WILL COMPLY WITH THE ABOVE REQUIREMENTS.

CONTRACTOR OR
SUBCONTRACTOR NAME: CMC Rebar West

CERTIFIED BY:

NAME: Andy Wulff TITLE: Regional Sales Manager

SIGNATURE:  DATE: 7/22/19

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THE UNDERSIGNED CERTIFIES THAT THE CONTRACTOR WILL COMPLY WITH THE ABOVE REQUIREMENTS.

CONTRACTOR OR SUBCONTRACTOR NAME: Hallsten Corporation

CERTIFIED BY:

NAME: Gary R. Powell TITLE: V.P. Environmental Sales

SIGNATURE: DATE: 7/26/2019

END OF ATTACHMENT 10

END OF ENVELOPE ONE, SEALED TECHNICAL PROPOSAL (PART 1)

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THE UNDERSIGNED CERTIFIES THAT THE CONTRACTOR WILL COMPLY WITH THE ABOVE REQUIREMENTS.

CONTRACTOR OR SUBCONTRACTOR NAME: James Long Construction Services, Inc.

CERTIFIED BY:

NAME: _____ TITLE: Vice President

SIGNATURE: Brad Tucker Digitally signed by Brad Tucker DN: cn=Brad Tucker, o=James Long Construction Services, Inc., ou, email=btucker@jameslongconstruction.com, c=US Date: 2019.07.25 09:20:01 -07'00' DATE: July 25, 2019

END OF ATTACHMENT 10

END OF ENVELOPE ONE, SEALED TECHNICAL PROPOSAL (PART 1)

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THE UNDERSIGNED CERTIFIES THAT THE CONTRACTOR WILL COMPLY WITH THE ABOVE REQUIREMENTS.

CONTRACTOR OR
SUBCONTRACTOR NAME: Martin Brothers Construction

CERTIFIED BY:

NAME: Nick Rutherford TITLE: Estimator

SIGNATURE:  DATE: July 26, 2019

END OF ATTACHMENT 10

END OF ENVELOPE ONE, SEALED TECHNICAL PROPOSAL (PART 1)

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THE UNDERSIGNED CERTIFIES THAT THE CONTRACTOR WILL COMPLY WITH THE ABOVE REQUIREMENTS.

CONTRACTOR OR SUBCONTRACTOR NAME: Mason Painting

CERTIFIED BY:

NAME: Scott Dorn TITLE: Treasurer

SIGNATURE: DATE: 7/26/2019

END OF ATTACHMENT 10

END OF ENVELOPE ONE, SEALED TECHNICAL PROPOSAL (PART 1)

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THE UNDERSIGNED CERTIFIES THAT THE CONTRACTOR WILL COMPLY WITH THE ABOVE REQUIREMENTS.

CONTRACTOR OR SUBCONTRACTOR NAME: RCM Fire Protection, Inc.

CERTIFIED BY:

NAME: Bill Land TITLE: Purchasing Agent

SIGNATURE: Bill Land DATE: 7/29/19

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THE UNDERSIGNED CERTIFIES THAT THE CONTRACTOR WILL COMPLY WITH THE ABOVE REQUIREMENTS.

CONTRACTOR OR
SUBCONTRACTOR NAME: San Joaquin Electric

CERTIFIED BY:

NAME: Wade Johnson TITLE: Vice President

SIGNATURE: Wade Johnson DATE: 7-22-19

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CONTRACTOR OR SUBCONTRACTOR NAME: Skyline Scaffold

CERTIFIED BY:

NAME: Frank Towse TITLE: PM

SIGNATURE: [signature] DATE: 7-29-19

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2. Verification of U.S. Production: The Proposer certifies that all components contained in the bid solicitation that are American-made have been so identified, and if this bid is accepted, the Bidder agrees that it will provide reasonable, sufficient, and timely verification to the Purchaser of the U.S. production of each component so identified.

3. Documentation Regarding Non-American-made Iron, Steel, or Manufactured Goods: The Proposer certifies that for any component or components that are not American-made and are so identified in this Bid Proposal, the Proposer has included in or attached to this Bid Proposal one or both of the following, as applicable:

    a. Identification of and citation to a categorical waiver published by the U.S. Environmental protection Agency in the Federal Register that is applicable to such component or components, and an analysis that supports its applicability to the component or components;

    b. Verifiable documentation sufficient to the Purchaser, as required in the bid solicitation or otherwise, that the Proposer has sought to secure American-made components but has determined that such components are not available on the schedule and consistent with the deadlines prescribed in the bid solicitation, with assurance adequate for the Proposer under the applicable conditions stated in the bid solicitation or otherwise.

- Information and Detailed Justification Regarding Non-American-made Iron, Steel, or Manufactured Goods: The Proposer certifies that for any such component or components that are not so available, the Proposer has also provided in or attached to this bid information, including but not limited to the verifiable documentation and a full description of the bidder's effort to secure any such American-made component or components, that the Bidder believes are sufficient to provide and as far as possible constitute the detailed justification required for a waiver under section 1605 with respect to such component or components. The Bidder further agrees that, if this bid is accepted, it will assist the Purchaser in amending, supplementing, or further supporting such information as required by the Purchaser to request and, as applicable, implement the terms of a waiver with respect to any such component or components.

THE UNDERSIGNED CERTIFIES THAT THE CONTRACTOR WILL COMPLY WITH THE ABOVE REQUIREMENTS.

CONTRACTOR OR SUBCONTRACTOR NAME: TOWNSEND & SCHMIDT MASONRY

CERTIFIED BY:

NAME: TROY D. BREWER TITLE: VICE PRESIDENT

SIGNATURE: T D. B DATE: JULY 25, 2019

END OF ATTACHMENT 10

END OF ENVELOPE ONE, SEALED TECHNICAL PROPOSAL (PART 1)

ATTACHMENT 10

CONSOLIDATED APPROPRIATIONS ACT
BUY AMERICAN IRON AND STEEL CERTIFICATION

Project: PLEASANT GROVE WASTEWATER TREATMENT PLANT EXPANSION PROJECT

1. Identification of American-made Iron, Steel, and Manufactured Goods: Consistent with the terms of the Purchaser's bid solicitation and provisions of Section 436 of the Consolidated Appropriations Act of 2014, the Proposer certifies that this Bid Proposal reflects the Proposer's best, good faith effort to identify domestic sources of iron, steel, and manufactured goods for every component contained in the bid solicitation where such American-made components are available on the schedule and consistent with deadlines prescribed in or required by the bid solicitation.

2. Verification of U.S. Production: The Proposer certifies that all components contained in the bid solicitation that are American-made have been so identified, and if this bid is accepted, the Bidder agrees that it will provide reasonable, sufficient, and timely verification to the Purchaser of the U.S. production of each component so identified.

3. Documentation Regarding Non-American-made Iron, Steel, or Manufactured Goods: The Proposer certifies that for any component or components that are not American-made and are so identified in this Bid Proposal, the Proposer has included in or attached to this Bid Proposal one or both of the following, as applicable:

    a. Identification of and citation to a categorical waiver published by the U.S. Environmental protection Agency in the Federal Register that is applicable to such component or components, and an analysis that supports its applicability to the component or components;

    b. Verifiable documentation sufficient to the Purchaser, as required in the bid solicitation or otherwise, that the Proposer has sought to secure American-made components but has determined that such components are not available on the schedule and consistent with the deadlines prescribed in the bid solicitation, with assurance adequate for the Proposer under the applicable conditions stated in the bid solicitation or otherwise.

- Information and Detailed Justification Regarding Non-American-made Iron, Steel, or Manufactured Goods: The Proposer certifies that for any such component or components that are not so available, the Proposer has also provided in or attached to this bid information, including but not limited to the verifiable documentation and a full description of the bidder's effort to secure any such American-made component or components, that the Bidder believes are sufficient to provide and as far as possible constitute the detailed justification required for a waiver under section 1605 with respect to such component or components. The Bidder further agrees that, if this bid is accepted, it will assist the Purchaser in amending, supplementing, or further supporting such information as required by the Purchaser to request and, as applicable, implement the terms of a waiver with respect to any such component or components.

THE UNDERSIGNED CERTIFIES THAT THE CONTRACTOR WILL COMPLY WITH THE ABOVE REQUIREMENTS.

CONTRACTOR OR
SUBCONTRACTOR NAME: Ward-Henshaw Construction Co., Inc.

CERTIFIED BY:

NAME: Michael R. Eubanks TITLE: Vice President

SIGNATURE: [signature] DATE: 07/25/19

END OF ATTACHMENT 10

END OF ENVELOPE ONE, SEALED TECHNICAL PROPOSAL (PART 1)

CITY OF ROSEVILLE CALIFORNIA

POINT-OF-CONTACT:
Joe Lawrence
(916) 375-1833
jlawrence@wmlylesco.com



EXHIBIT C

GUARANTEED MAXIMUM PRICE, COST OF WORK AND FEES

Pleasant Grove Wastewater Treatment Plant Expansion Project

EXHIBIT C

GUARANTEED MAXIMUM PRICE, COST OF WORK AND FEE

Pleasant Grove Wastewater Treatment Plant Expansion Project

A. GUARANTEED MAXIMUM PRICE: The **Guaranteed Maximum Price ("GMP")** as of the date of execution of this Agreement is fifty-four million, four hundred thousand dollars ($54,400,000.00). Subject to the provisions of this Agreement, the costs and expenses which the Contractor may include in the Cost of Work for purposes of determining that aspect of the Contractor's compensation are as set forth in this Exhibit C. The Contractor's total compensation, including Fee and allowable mark-ups, shall not exceed the GMP. The GMP may be adjusted by Change Order in accordance with this Agreement.

Included in the GMP is the following total amount for worker protection pursuant to California Labor Code Section 6707:

$10,000.00

B. ALLOWANCES: Allowances and Allowance Amounts are listed in Exhibit D.

C. COST OF THE WORK: The term "Cost of Work" means the sum of all costs necessarily incurred and paid by the Contractor for labor, materials, equipment, subcontractors, special services, bonds, liability, workers' compensation and errors and omissions insurance, direct job overhead expenses, taxes and other necessary expenses incurred in the performance of the Work, that do not exceed the GMP. The following are categories of cost and expense to be paid by City to Contractor as Cost of the Work:

1. **Hourly Field Labor:** The cost of all labor employed by Contractor in performing the Work will be calculated at the Initial Hourly Field Labor Rates set forth below. Those rates include wages, fringe benefits, government mandated payments (workers compensation insurance and SSI), travel and subsistence.

   The Hourly Field Labor Rates will be adjusted during the Project whenever the prevailing wage rate determined by the Department of Industrial Relations for a worker classification changes (Note that this does not apply to any changes to labor rates required to be paid per the Davis Bacon wage determination) or in accordance with an Industry Master Labor Agreement, if the Contractor is signatory to any such Agreements. All changes to the prevailing wage rates must be submitted by the Contractor and approved by the City.

   For labor not covered by a rate set forth below, the cost of labor is defined as follows:

   The cost of hourly field craft labor for workers (including forepersons when authorized by the Construction Manager) used in actual and direct performance of the Work by the Contractor will be the sum of the following:

   - The actual wages paid plus any employer payments to, or on behalf of workers for fringe benefits including health and welfare, pension, vacation and similar purposes.
   - All payments imposed by State and Federal Laws including, but not limited to, workers' compensation insurance, and social security payments. The rates used for workers' compensation insurance shall be actual rates paid by the Contractor for each specific craft and broken down by wage rate if applicable to that craft.
   - Actual General Liability insurance burden, if it is applied to Contractor's payroll. Contractor shall provide adequate backup information to Construction Manager to verify

this burden rate is indicative of the actual rates paid by the Contractor as a percent of labor.

Except as otherwise may be agreed to, in writing by the City, the actual wages and benefits paid for manual classifications of Contractor's on-site workers will not, in the aggregate, be less than the current applicable wage for each classification as established by the greater of the two wage rates between the State of California Director of Industrial Relations and the Davis Bacon Wage Determination (APPENDIX A-2 of the Request for Bid Proposal).

Specifically prohibited from the labor costs are other payroll burden factors such as small tools (as defined in Construction Equipment below), bonuses of any kind and safety incentives.

Contractor shall include the actual travel and/or subsistence costs, if any, as a separate line item under the labor cost category when submitting progress billings to City. Except as otherwise may be agreed to in writing by the City, the actual travel and/or subsistence costs will not be more than established in an applicable Master Labor Agreement or the State of California Director of Industrial Relations.

2. **On-Site Management and Administrative Labor:** Wages and Salaries of Contractor's management and administrative personnel assigned to this Project to directly manage and administer the Work on-site are included in the table below. These positions may include a Principal-in-Charge or Project Director, On-site Project Manager, On-site Project Engineer, On-Site Field Engineer, On-site Superintendents listed by trade or title, General Foreman, On-site Office Manager, Yardman/Delivery Driver and On-site Administrative Assistant. These positions will be paid in accordance with the following table for entire duration of the Project and include all labor burden, overhead and profit mark-ups. The Principal-in-Charge or Project Director can only charge for hours worked at the Site for this Project and can also charge for attendance of on-site Project Meetings. Any off-site Principal-in-Charge time spent on this Project shall be included in the Contractor's Fee Schedule for the Project under the Contractor's Fee subsection below.

On-Site Management & Administrative Positions Hourly Rate Table

On-Site Management & Administrative Position	Hourly Rate
Principal-in-Charge	$ 125.00
Project Manager	$ 115.00
Assistant Project Manager	$ 105.00
Project Engineer	$ 75.00
Administrative Assistant	$ 40.00

Contractor is allowed to charge up to a maximum of 50 hours per week to the City for each full-time assigned management and administrative personnel even if an employee works more than 50 hours in a week (this maximum hour limit is for employee's total hours for both Pleasant Grove Wastewater Treatment Plant projects). The Contractor can only charge for supervisory management and administrative hours if they also pay those same hours to the employee that worked up to 50 hours in any given week. The Contractor is not allowed to charge for any supervisory management and administrative personnel hours not paid to any employee.

Other company personnel such as Corporate Officers, Division/Area Managers, or Operations Managers (unless either are designated as the Principle-in-Charge), Quality Control Managers, Safety Officers, Project Schedulers, Project Coordinators, Estimators, Business Supervisors, Human Resources and Accountants are not allowed to charge any

hours to the Project. The anticipated cost of such personnel shall be included in the Contractor's Fee Mark-up Schedule for the Project under the Contractor's Fee Mark-up subsection below.

3. **Materials:** The cost of all materials, including all factory testing, freight and delivery costs of materials, used in performing the Work will be the cost to the Contractor from the supplier thereof. All discounts for early payment shall accrue to the Contractor unless the City's payment to Contractor is paid to Contractor before discount payment is due in which case discount savings will be fully credited to City on next progress billing. All rebates and all returns from the sale of surplus materials shall be credited to the Cost of the Work.

4. **Construction Equipment:** The initial Contractor Owned Equipment Rates approved for billing to the City are found at the end of this exhibit. All changes to these Contractor Owned Equipment Rates must be submitted by the Contractor and approved by the City prior to billing City for Work performed. Approved changes to equipment rates is not an allowable increase in the GMP. The rates found in this table for equipment owned by the Contractor will, in all cases, be understood to cover all fuel, supplies, repairs, maintenance, insurance, ownership, and incidental costs and no further allowances will be made for those items, unless specifically approved in writing by the City. Equipment owned by Contractor will only be paid for the actual time equipment is used in performing Work and will be rounded to the closest full hour if paid by an hourly rate. Compensation for idle time of equipment through delays caused by the City will be made consistent with Section 8-1.09, Right of Way Delays, of the Caltrans Standard Specifications, provided, however, that the Contractor Owned Equipment Rates set forth below will apply.

   Equipment not owned by Contractor which is rented by Contractor and used in performing Work will be paid by City based on actual invoiced cost to Contractor, plus actual fuel/lube costs, provided the rental rate is not in excess of rental rates established by distributors or equipment rental companies in the local area. City-operated equipment will also be paid by City based on actual invoiced cost to Contractor provided the City does not deem any charges excessive. All transportation costs to move equipment on and off the Work will be paid by City up to a maximum of four (4) hours total travel time each way.

   Equipment with a value less than $500.00: The Contractor will be paid an amount of three percent (3.0%) of total hourly field labor costs as defined above to cover the cost of small tools and safety supplies for Work directly performed at the Site.

5. **Subcontractors and SubTier Subcontractors:** The Contractor will be paid for all Work performed by Subcontractor at the actual invoiced amount. Should a Subcontractor be required to perform extra work caused by a contract change order, the Subcontractor will be allowed a mark-up as provided for in Section 01260, CONTRACT MODIFICATIONS.

6. **Special Services:** Special work or services are defined as that work not included in this Agreement and characterized by extraordinary complexity, sophistication, or innovation or a combination of the foregoing attributes which are unique to the construction industry. These special services may include such services as registered land surveyor, licensed geotechnical engineer, licensed structural engineer, special testing or laboratory work. The special services may also include reasonable attorney's fees incurred in connection with preparation or negotiation of this Agreement with the City and subcontracts for the Work. The Contractor will be paid for special services in accordance with Article 12, PAYMENT AND COMPLETION, and based on actual invoiced cost, provided the City does not determine any special services costs to be excessive.

EXHIBIT C-3

GMP, COST OF WORK AND FEE

7. **Bonds and Insurance:** The Contractor will be paid the actual cost for the required bonds, as well as the cost of all insurance costs required for the Work (such costs are deemed a Cost of Work and are therefore contained within the GMP).

8. **Direct Job Overhead Expenses:** The Contractor will be paid for the actual cost of job overhead expenses which may include such expenses as office trailers, storage vans, temporary fencing/security, toilets, dumpsters, waste removal, water, utility power, jobsite landline telephone costs, jobsite internet provider costs, reasonable room and board subsistence for employees who live farther than 40 miles from the Site or as required by California prevailing wage laws, copy machine, water cooler and any office furniture required for the Work needs and as required in the Specifications, including mobilization and demobilization of same. There will be no warranty reserve.

9. **Taxes:** The Contractor acknowledges it will be liable for all sales, use, gross receipts or other taxes, tariffs or duties related to the Work and that these taxes and tariffs are included in the GMP. All invoices to City will include the applicable taxes and tariffs that are the Contractor's responsibility and will not be shown as a separate line item on the Contractor's invoice.

10. **Preconstruction Services:** The Cost of Work will include all Design Assist Services including preplanning and preconstruction service costs incurred by Contractor prior to beginning of construction, and other Design Assist Services required throughout the construction period.

11. **Builder's Risk Policy Deductible**: The Contractor will be paid up to a maximum amount equal to the Builder's Risk Policy Deductible amount (not to exceed $100,000), for construction costs sustained by the Contractor as a result of a loss covered by the Contractor's Builder's Risk Policy and approved for coverage compensation by the Builder's Risk insurance carrier. The Contractor will not be paid for any Builder's Risk losses that resulted from the negligence of Contractor, any subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable.

D. ITEMS NOT INCLUDED IN THE COST OF WORK:

1. Salaries and other compensation of Contractor's personnel stationed at Contractor's principal office or offices other than the Site, except as specifically provided above.

2. Expenses of Contractor's principal office and offices, other than the Site office.

3. Contractor's General Overhead and Expenses, except as specifically provided for in the Contract Documents.

4. The capital expenses of Contractor, including interest on capital employed for the Work and charges to Contractor for delinquent payments.

5. Hours in excess of 50 hours per week for each full-time assigned supervisory and management personnel even if a management or administrative employee works more than 50 hours in a week.

6. Costs due to correction of Defective Work, disposal of materials or equipment wrongfully supplied, and making good any damage to property.

7. Costs that would cause the GMP to be exceeded.

EXHIBIT C-4

GMP, COST OF WORK AND FEE

8. Any costs incurred after City's Final Acceptance of the Project.

E. CONTRACTOR's MARK-UP FEES: The Contractor's mark-up fees for general overhead and profit shall be paid by the City in accordance with the table below.

Contractor's Fee Mark-up Schedule for the Project

Item d.1	Hourly Field Labor	23.0 %
Item d.2	Management and Administrative Labor	Included in hourly rates
Item d.3	Materials	5.5 %
Item d.4	Construction Equipment	23.0 %
Item d.5	Subcontractors and Sub-Tier Subcontractors	5.5 %
Item d.6	Special Services	5.5 %
Item d.7	Bonds and Insurance	5.5 %
Item d.8	Direct Job Overhead Expenses	5.5 %

Lyles
Pleasant Grove Wastewater Treatment Plant Expansion Project
Hourly Field Labor Rates

Craft	Classification	Base Wage	Fringes Plus Vacation	P/R Tax & Insurance	Straight Time Hourly Rate	OVERTIME RATES	
						Daily/Saturday Rate (1-1/2 X)	Sunday/Holiday Rate (2 X)
Carpenter (Area 3 thru 6/30/20)	Foreman	49.08	30.49	11.36	90.93	120.62	150.32
	Journeyman	44.62	30.49	10.42	85.53	112.53	139.52
Millwright (Area 3 thru 6/30/20)	Foreman	51.62	32.09	11.91	95.62	126.85	158.08
	Journeyman	47.12	32.09	10.97	90.18	118.69	147.20
Operator (Area 1 thru 6/30/20)	Foreman	49.14	31.13	11.29	91.56	121.29	151.02
	Group 2A	48.14	31.13	11.08	90.35	119.47	148.60
	Group 3	46.01	31.13	10.63	87.77	115.61	143.44
	Group 3A	46.40	31.13	10.71	88.24	116.31	144.38
	Group 4	44.63	31.13	10.34	86.10	113.10	140.10
Laborer (Area 2 thru 6/30/20)	Foreman - Specialist	33.99	24.85	7.78	66.62	87.18	107.75
	Journeyman - Specialist	31.49	24.85	7.25	63.59	82.64	101.69
Cement Mason (thru 6/30/20)	Foreman	41.55	26.31	9.97	77.83	102.97	128.11
	Journeyman	37.10	26.31	9.03	72.44	94.89	117.33
Laborer GF (Varnes)	Lab FM	48.00	24.85	10.72	83.57	112.61	141.65
Carp GF (Flannigan)	Carp GF	52.00	30.49	11.97	94.46	125.92	157.38
Carp Super (Larson)	Carp Superintendent	63.10	30.49	14.31	107.90	146.07	184.25

EXHIBIT C-6

GMP, COST OF WORK AND FEE

Lyles
Pleasant Grove Wastewater Treatment Plant Expansion Project
Contractor Owned Equipment Rates

EQUIPMENT DESCRIPTION	Hourly Rate	Daily Rate
Passenger Car	10.50	
SUV	10.50	
Boom Truck	54.10	
Dump Truck - T370	23.70	
Maintenance Truck	19.30	
Water Truck	34.20	
Gang Truck	14.10	
Flatbed Truck - 24'	15.70	
1/2 Ton Pickup Truck	10.50	
Mid-size Pickup Truck	10.50	
3/4 Ton Pickup Truck	12.60	
1 Ton Pickup Truck	12.60	
Excavator - 349	149.10	
Excavator - 336	109.80	
Forklift	12.10	
Loader Backhoe - 430	47.80	
Loader Backhoe - 410	42.00	
Loader Backhoe - 310	42.00	
Hydro Crane - 30ton	59.90	
Hydro Crane - 50ton	72.00	
Hydro Crane - 60ton	72.00	
Hydro Crane - 65ton	86.10	
Hydro Crane - 80ton	140.00	
Lattice Crane - 110ton	110.00	
Reachlift	31.00	
Motor Grader - 14	93.00	

EXHIBIT C-7

GMP, COST OF WORK AND FEE

EQUIPMENT DESCRIPTION	Hourly Rate	Daily Rate
Skip Loader	24.00	
Wheel Loader - IT-28	49.40	
Wheel Loader - 950	59.90	
Wheel Loader - 962	65.10	
Skid Steer - 246	30.00	
Air Compressor	15.80	
Compactor - MVH-408	18.00	
Street Sweeper - VT651	33.72	
Street Sweeper - Lay-mor 8H	17.90	
Welder - 300	7.10	
Generator - 160	35.00	
Pipe Threader	31.50	
Scissor Lift	5.30	
Boom Lift	42.20	
Dump Trailer - 6'x10'	3.70	
Flatbed Trailer - up to 4-1/2ton	6.80	
Utility Trailer - 6'x12'	6.80	
Fuel/Lube Trailer	24.20	
Traffic Trailer	73.00	
Light Tower	10.50	
Water Tower - 10,000gal	5.95	
Water Trailer - 500gal	3.30	

*****END OF EXHIBIT C*****

EXHIBIT C-8

GMP, COST OF WORK AND FEE

EXHIBIT D

ALLOWANCES AND ALLOWANCE AMOUNTS

Pleasant Grove Wastewater Treatment Plant Expansion Project

EXHIBIT D

ALLOWANCES AND ALLOWANCE AMOUNTS

Pleasant Grove Wastewater Treatment Plant Expansion Project

The following cost allowances and allowance amounts are included in the GMP as part of the Agreement:

Item #	Allowance Description	Allowance Amount
1	Contractor hauling a minimum of 80,000 gallons of digester seed sludge from the City's Dry Creek Wastewater Treatment Plant to the Project site per Specification Section 01 12 16, WORK SEQUENCE.	$10,000.00
2	Unforeseen conditions associated with Contractor activities per Specification Section 02 00 03, TANK AND WET WELL CLEANING. Contractor removal of the liquid and solid content from, and cleaning of the WAS Holding Tanks and the WAS/RAS Wet Well, dewatering of the material removed from the WAS Holding Tanks and the WAS/RAS Wet Well, and transportation and disposal of the dried sludge are required known Work and are not to be paid for with this allowance.	$30,000.00
3	Miscellaneous office equipment and furnishings not specified in Specification Section 01 52 00, CONSTRUCTION FACILITIES. This allowance shall only be used for the purchase price and any associated tax for items not specified in Section 01 52 00.	$15,000.00
4	Painting and coatings quality insurance/quality control inspection and testing in accordance with Section 09 96 00, paragraph 1.05.E	$200,000.00
5	Handling, hauling and disposal of existing stockpiled material within the digester area as identified by the City.	$140,000.00
6	Labor and equipment to support the City with unforeseen maintenance or modification of existing PGWWTP facilities as identified by the City.	$100,000.00

DUTIES OF CONTRACTOR

A. Plan allowance Work collaboratively with the Construction Manager and City's Representative to control allowance costs and avoid impacts to the Progress Schedule.

B. Advise Construction Manager at least fifteen (15) days in advance of the need to purchase materials to avoid impacts to Progress Schedule.

C. Obtain competitive proposals from material suppliers, including:
   1. Quantity.
   2. Complete description of product and services provided under allowance.
   3. Unit cost.
   4. Total amount of purchase.

EXHIBIT D-1

ALLOWANCES AND ALLOWANCE AMOUNTS

5. Taxes and delivery charges.

D. On notification of selection, enter into purchase agreement with designated supplier.

E. Arrange for delivery and unloading.

F. Install products in accordance with Contract Documents.

G. Maintain accurate cost records, separate from the cost categories for the balance of the Work, which depict the total cost incurred for each allowance item.

EXHIBIT D-2
ALLOWANCES AND ALLOWANCE AMOUNTS

H. Monitor each allowance item total costs to date and immediately report to the Construction Manager should the total cost to date reach 80% of the total allowance amount of any allowance item amount shown in above table. Should the total cost of any allowance item reach 80% of the total allowance amount budgeted, the Contractor shall quantify and forecast the cost to complete the remaining known allowance item tasks and submit this forecasted quantity and completion cost to the Construction Manager.

DUTIES OF CONSTRUCTION MANAGER

A. Consult with Contractor and City in consideration of equipment or material and suppliers.

B. Provide Contractor with all required product, technical or design related information as it pertains to the allowance items.

C. Make equipment, supplier or system selection and request proposal from Contractor for these items covered by each allowance.

D. Notify Contractor of final equipment, supplier or system selection to allow Contractor to begin submittal and procurement.

E. Review cost to date information submitted by the Contractor and prepare Change Orders as required for City approval.

ADJUSTMENT OF COSTS

A. The Contractor shall not exceed the allowance amounts shown in above table without the written approval of the City. Should the Contractor exceed the allowance amounts without the written approval of the City, the Contractor will be responsible for all costs greater than the allowance amounts shown in above table.

B. Contractor will be paid the actual total cost of each allowance item as a Cost of the Work. When actual total cost is more or less than amount of allowance, the GMP will be adjusted by Change Order.

*****END OF EXHIBIT D*****

EXHIBIT D-3
ALLOWANCES AND ALLOWANCE AMOUNTS

EXHIBIT E

DESIGNATION OF SUBCONTRACTORS

Pleasant Grove Wastewater Treatment Plant Expansion Project

EXHIBIT E

DESIGNATION OF SUBCONTRACTORS

Pleasant Grove Wastewater Treatment Plant Expansion Project

In accordance with California Public Contracting Code Section 4100, et seq., the Contractor certifies that the following licensed subcontractors will perform work or labor or render service to Contractor in or about the construction of the Work, or will specifically fabricate and install a portion of the Work according to Drawings contained in the Contract Documents, in an amount in excess of one-half of one percent (0.5%) of the GMP.

Work to be Performed	Subcontractor's License Number and Classification(s) and DIR Registration Number	Subcontractor's Name and Complete Street Address
Asphalt Paving	License: 726454 Classification: A DIR: 1000000017	Martin Brothers Construction 8801 Folsom Blvd, Suite 260 Sacramento, CA 95826
Falsework	License: 858633 Classification: C-61/D39 DIR: 1000000114	Skyline Scaffold, Inc. 3131 52nd Ave Sacramento, CA 95823
Reinforcing Steel	License: 778010 Classification: C50 DIR: 1000000114	CMC Rebar 12451 Arrow Route Etiwanda, CA 91739
Prestressed Concrete Tank	License: 462977 Classification: A DIR: 1000020008	Ward-Henshaw Construction Co. 505 N Baker Dr Canby, OR 97013
Masonry	License: 186559 Classification: C29 DIR: 1000000879	Townsend & Schmidt Masonry 8788 Elder Creek Rd Sacramento, CA 95828
Painting and Coating	License: 819987 Classification: C33 DIR: 1000008947	Mason Painting, Inc. 3242 Luyung Dr Rancho Cordova, CA 95742
Bridge Cranes	License: 456362 Classification: C-61/D07 DIR: 1000005531	Allied Cranes, Inc. 855 North Parkside Dr Pittsburg, CA 94565
Fire Sprinkler Systems	License: 793205 Classification: C16 & B DIR: 1000006192	RMC Fire Protection, Inc. 350 Enterprise Place Tracy, CA 95304

EXHIBIT E-1

DESIGNATION OF SUBCONTRACTORS

Work to be Performed	Subcontractor's License Number and Classification(s) and DIR Registration Number	Subcontractor's Name and Complete Street Address
HVAC	License: 821827 Classification: B, C-4, C-7, C20, C36, C43 DIR: 1000000065	James Long Construction Services, Inc. 8560 Younger Creek Dr, #1 Sacramento, CA 95828
Electrical & Instrumentation	License: 410103 Classification: C10 DIR: 1000002857	San Joaquin Electric, Inc. 2342 Teepee Dr Stockton, CA 95205
Prefabricated Aluminum Covers	License: 953403 Classification: C-61/D24 DIR: 1000027657	Hallsten Corporation 6944 34th St North Highlands, CA 95660

END OF EXHIBIT E

EXHIBIT E-2

DESIGNATION OF SUBCONTRACTORS

EXHIBIT F

COMPLETION TIMES AND LIQUIDATED DAMAGES

Pleasant Grove Wastewater Treatment Plant Expansion Project

EXHIBIT F

COMPLETION TIMES AND LIQUIDATED DAMAGES

Pleasant Grove Wastewater Treatment Plant Expansion Project

Times Allowed for Completion

In accordance with the provisions of Article 9.2, CONTRACT TIME, the following milestone completions, completion periods, substantial completion and final completion contract times shall be completed within the number of consecutive calendar days from the date established in the Notice to Proceed for the commencement of Contract Time:

Contractual Completion Event	Completion Time (# of calendar days from Notice to Proceed date)
Milestone B: Substantial Completion of yard piping for potable water, utility water, and sanitary sewer extending to the Energy Recovery Project boundary completed.	390
Milestone D: Substantial Completion of roadway grading and motorized entry gate shall be completed.	420
Milestone E: Substantial Completion of Phase A startup and commissioning complete per Section 01 12 16. Digester gas is generated by the new Anaerobic Digestion system and conveyed to the Energy Recovery Project.	730
Milestone F: Substantial Completion of all Work	910
Milestone G: Final Completion of all Work	940

The requirements for Substantial Completion are set forth in Article 12.12 of the Agreement. See Section 01 12 16 – WORK SEQUENCE for a complete listing and description of the Project milestones.

Damages for Delays

In accordance with the provisions of Article 9.5, **Liquidated Damages**, for the period of time that any portion of the Work remains unfinished after the time fixed in above **Times Allowed for Completion**, as modified by extensions of time granted by the Owner, it is understood and agreed by the Contractor and the Owner that the Contractor shall pay the Owner the liquidated damages listed below.

Contractual Completion Event	Daily Liquidated Damages
Milestone B: Substantial Completion of yard piping for potable water, utility water, and sanitary sewer extending to the Energy Recovery Project boundary completed.	$2,500.00
Milestone D: Substantial Completion of roadway grading and motorized entry gate shall be completed.	$2,500.00
Milestone E: Substantial Completion of Phase A startup and commissioning complete per Section 01 12 16. Digester gas is generated by the new Anaerobic Digestion system and conveyed to the Energy Recovery Project.	$3,500.00
Milestone F: Substantial Completion of all Work	$5,000.00
Milestone G: Final Completion of all Work	$1,600.00

Weather Days

In accordance with the provisions of Article 9.4.2.C, Weather Delays, an allowance of twenty (20) working days of weather caused delay have been included in the time allowed for completion. This allowance represents a reasonable assessment of anticipated lost working days based on historical weather patterns. These weather days shall be included in the Contractor's schedule as specified in Section 01324-1.09, WEATHER CONDITIONS AND WEATHER DAY ALLOWANCE.

*****END OF EXHIBIT F*****

EXHIBIT G

FAITHFUL PERFORMANCE BOND

Pleasant Grove Wastewater Treatment Plant Expansion Project

EXHIBIT G

PERFORMANCE BOND

Pleasant Grove Wastewater Treatment Plant Expansion Project

Bond No. 070210387
Premium $ 230,656.00

PERFORMANCE BOND

This Performance Bond ("Performance Bond"), dated October 3, 20 19 is in the penal sum of Fifty-four million, four hundred thousand dollars and 00/100 Dollars ($ 54,400,000.00), which is an amount not less than one hundred percent (100%) of the Total Contract Price, and is entered into by and between the undersigned W.M. Lyles Co. ("Principal" or "Contractor") and the undersigned Liberty Mutual Insurance Company ("Surety") to ensure the Principal's faithful performance of the Agreement for the Design-Assist and Construction of the Pleasant Grove Wastewater Treatment Plant Expansion Project ("Design Assist Contract"). This Performance Bond consists of this page and the following Performance Bond Terms and Conditions, Paragraphs 1 through 10. Any singular reference to the Principal, the Surety, the City of Roseville, California ("City") or other party shall be considered plural where applicable.

BOND TERMS AND CONDITIONS

1. The Principal and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the City for the complete and proper performance of the Design Assist Contract, which is incorporated herein by reference.

2. If the Principal completely and properly performs all of its obligations under the Design Assist Contract, the Surety and the Principal shall have no further obligation under this Performance Bond, except as provided below.

3. If there is no City Default, the Surety's obligations under this Performance Bond shall only arise in accordance with the provisions of the Design Assist Contract. Similarly, any obligations to be performed by Surety are detailed in the Design Assist Contract.

4. If the Surety does not proceed as provided in the Design Assist Contract, then the Surety shall be deemed to be in default on this Performance Bond ten (10) calendar days after receipt of an additional written notice from City to the Surety demanding that the Surety perform its obligations under this Performance Bond. At all times the City shall be entitled to enforce any remedy available to the City at law or under the Design Assist Contract including, without limitation, and by way of example only, rights to perform work, protect work, mitigate damages, or coordinate work with other consultants or contractors at Surety's sole expense.

5. The Surety's monetary obligation under this Performance Bond is limited by the amount of this Performance Bond. Subject to these limits, the Surety's obligations under this

Bond are commensurate with the obligations of the Contractor under the Design Assist Contract. The Surety's obligations shall include, but are not limited to:

5.1 The responsibilities of the Contractor under the Design Assist Contract for completion of the Design Assist Contract and correction of defective work;

5.2 The responsibilities of the Contractor under the Design Assist Contract to pay liquidated damages, and damages for which no liquidated damages are specified in the Design Assist Contract, including but not limited to, all valid and proper back charges, offsets, payments, indemnities, defense costs or other damages; and

5.3 Additional legal, design professional and delay costs resulting from the Contractor Default or resulting from the actions or failure to act of the Surety under Paragraphs 3 or 4, above.

6. The Surety shall not be liable to the City or others for the obligations of the Contractor that are unrelated to the Design Assist Contract, and the Balance of the Total Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Performance Bond to any person or entity other than the City or its heirs, executors, administrators, or successors.

7. The Surety hereby waives notice of any change, alteration or addition to the Design Assist Contract or to related subcontracts, purchase orders and other obligations, including but not limited to changes of time. The Surety consents to all terms of the Design Assist Contract, including provisions on changes to the Contract Documents. No extension of time, Change Order, alteration, Modification, deletion, or addition to the Contract Documents, or of the work required thereunder, shall release or exonerate Surety on this Performance Bond or in any way affect the obligations of Surety on this Performance Bond.

8. Any proceeding, legal or equitable, under this Performance Bond shall be instituted in any court of competent jurisdiction in Placer County, California within two (2) years after the Contractor Default or within two (2) years after the Contractor ceased working or within two (2) years after the Surety refuses or fails to perform its obligations under this Performance Bond, whichever occurs first. If the provisions of this Paragraph 8 are void or prohibited by law, the minimum period of limitation available to sureties as a defense in Placer County shall be applicable.

9. Notice to the Surety or the Principal shall be mailed or delivered to the address shown on the signature pages. Notice to City shall be delivered to:

City Clerk of City of Roseville
311 Vernon Street
Roseville, CA 95678

EXHIBIT G

PERFORMANCE BOND

Pleasant Grove Wastewater Treatment Plant Expansion Project

10. Any provision in this Performance Bond conflicting with any statutory or regulatory requirement shall be deemed deleted herefrom and provisions conforming to such statutory requirement shall be deemed incorporated herein. The intent is that this Performance Bond shall be construed as a statutory bond and not as a common law bond.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the undersigned obligated parties have executed this instrument.

(Corp. Seal)

Principal: W.M. Lyles Co.

Signature:

Name & Title: Anthony M. Mueller, Asst. Vice President

Address: 1210 W. Olive Ave., Fresno, CA 93728

(Corp. Seal)

Surety: Liberty Mutual Insurance Company

Signature:

Name & Title: Bonnie Gonzalez Attorney In Fact

Address: 1340 Treat Blvd., Ste 400 Walnut Creek, CA 94597

Attorney in Fact: Bonnie Gonzalez

Surety shall submit the following documents along with this Performance Bond:

1. Verification that Surety is admitted to transact surety business in the State of California;

EXHIBIT G-3

PERFORMANCE BOND

and

2. Copy of Surety's Certificate of Authority, issued by the Insurance Commissioner of the State of California, along with a statement that said Certificate has not been surrendered, revoked, cancelled, annulled or suspended.

Approved: Robert R Schmitt, City Attorney

END OF DOCUMENT

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT **CIVIL CODE § 1189**

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)

On October 3, 2019 before me, Sonja Brenda Ferris, Notary Public,
Date *Here Insert Name and Title of the Officer*

personally appeared Anthony M. Mueller
Name(s) of Signer(s)

,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) 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.

SONJA BRENDA FERRIS
Notary Public – California
Yolo County
Commission # 2189437
My Comm. Expires Apr 2, 2021

Signature Sonja Brenda Ferris
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document
Title or Type of Document: Performance Bond
Document Date: October 3, 2019 Number of Pages: 4
Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: Anthony M. Mueller	Signer's Name: _____
☑ Corporate Officer — Title(s): Asst. VP	☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General	☐ Partner — ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other: _____	☐ Other: _____
Signer Is Representing: W. M. Lyles Co.	Signer Is Representing: _____

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CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT — Civil Code § 1189

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 Fresno)

On October 3, 2019, before me, L. Genito, Notary Public, personally appeared Bonnie Gonzalez, who proved to me on the basis of satisfactory evidence to be the person~~(s)~~ whose name~~(s)~~ is~~/are~~ subscribed to the within instrument and acknowledged to me that ~~he~~/she/~~they~~ executed the same in ~~his~~/her/~~their~~ authorized capacity~~(ies)~~, and that by ~~his~~/her/~~their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ 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.

L. GENITO
Notary Public - California
Fresno County
Commission # 2272000
My Comm. Expires Jan 16, 2023

(Seal)

Signature: _____

L. Genito, Notary Public

EXHIBIT H

LABOR AND MATERIALS PAYMENT BOND

Pleasant Grove Wastewater Treatment Plant Expansion Project

EXHIBIT H

LABOR AND MATERIAL BOND

Pleasant Grove Wastewater Treatment Plant Expansion Project

Bond No. 070210387
Premium $ Included in Perfomance Bond

LABOR AND MATERIAL BOND

This Labor and Material Bond ("Labor and Material Bond") dated October 3, 20 19, is in the penal sum of Fifty-four million, four hundred thousand dollars and 00/100 Dollars ($ 54,400,000.00), which is an amount not less than one hundred percent (100%) of the Total Contract Price, and is entered into by and between the undersigned W.M. Lyles Co. ("Principal" or "Contractor") and the undersigned Liberty Mutual Insurance Company ("Surety") to ensure the Principal's payment of claimants pursuant to the Agreement for the Design-Assist and Construction of the Pleasant Grove Wastewater Treatment Plant Expansion Project ("Design Assist Contract"). This Labor and Material Bond consists of this page and the following Labor and Material Bond Terms and Conditions, Paragraphs 1 through 14. Any singular reference to the Principal, the Surety, the City of Roseville, California ("City") or other party shall be considered plural where applicable.

BOND TERMS AND CONDITIONS

1. The Principal and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the City and to Claimants, to pay for labor, materials, Equipment furnished and Services provided in the performance of the Design Assist Contract, which is incorporated herein by reference.

2. With respect to the City, this obligation shall become null and void if and when the Principal:

   2.1 Promptly and fully makes payment, directly or indirectly, for all sums due Claimants, and

   2.2 Fully defends, indemnifies and holds harmless the City from all claims, demands, liens or suits by any person or entity who furnished labor, materials or equipment for use in the performance of the Design Assist Contact, provided the City has promptly notified the Principal and the Surety (at the address described in Paragraph 12 below) of any claims, demands, liens or suits and has tendered defense of such claims, demands, liens or suits to the Principal and the Surety, and provided there is no City Default. Otherwise, this Labor and Material Bond shall be, and remain, in full force and effect.

3. With respect to Claimants, this obligation shall become null and void if and when the Principal promptly and fully makes payment, directly or indirectly through its Subcontractors, for all sums due Claimants; otherwise, this Labor and Material Bond shall be, and remain, in full force and effect.

LABOR AND MATERIAL BOND

EXHIBIT H

LABOR AND MATERIAL BOND

Pleasant Grove Wastewater Treatment Plant Expansion Project

4. The Surety shall have no obligation to Claimants under this Labor and Material Bond until:

   4.1 Claimants who are employed by or have a direct contract with the Contractor have given notice to the Surety (at the address described in Paragraph 12) and sent a copy, or notice thereof, to the City, stating that a claim is being made under this Labor and Material Bond and, with substantial accuracy, the amount of the claim.

   4.2 Claimants who do not have a direct contract with the Contractor:

      4.2.1 Have furnished written notice to the Contractor and sent a copy, or notice thereof, to the City, within ninety (90) days after having last performed labor or last furnished materials or equipment included in the claim stating, with substantial accuracy, the amount of the claim and the name of the party to whom the materials were furnished or supplied or for whom the labor was done or performed; and

      4.2.2 Have either received a rejection in whole or in part from the Contractor, or have not received within thirty (30) days of furnishing the above notice any communication from the Contractor by which the Contractor has indicated the claim will be paid directly or indirectly; and

      4.3.3 Not having been paid within the above thirty (30) days, have sent a written notice to the Surety (at the address described in Paragraph 12) and sent a copy, or notice thereof, to the City, stating that a claim is being made under this Labor and Material Bond and enclosing a copy of the previous written notice furnished to the Contractor.

5. If a notice required by Paragraph 4 above is given by the City to the Contractor or to the Surety, that shall be considered sufficient compliance.

6. When the Claimant has satisfied the conditions of Paragraph 4, the Surety shall promptly and at the Surety's expense take the following actions:

   6.1 Send an answer to the Claimant, with a copy to the City, within forty-five (45) days after receipt of the claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed.

   6.2 Pay or arrange for payment of any undisputed amounts.

7. The Surety's total obligation shall not exceed the amount of this Labor and Material Bond, and the amount of this Labor and Material Bond shall be credited for any payments made in good faith by the Surety under this Labor and Material Bond.

EXHIBIT H-2

LABOR AND MATERIAL BOND

8. Amounts due the Contractor under the Design Assist Contract shall be applied to satisfy claims, if any, under this Labor and Material Bond.

9. The Surety shall not be liable to the City, Claimants or others for obligations of the Contractor that are unrelated to the Design Assist Contract. The City shall not be liable for payment of any costs, expenses, or attorney's fees of any Claimant under this Labor and Material Bond, and shall have no obligations to make payments to, give notices on behalf of, or otherwise have obligations to Claimants under this Labor and Material Bond.

10. The Surety hereby waives notice of any change, alteration or addition to the Design Assist Contract or to related subcontracts, purchase orders and other obligations, including but not limited to changes of time. The Surety consents to all terms of the Design Assist Contract, including provisions on changes to the Contract Documents. No extension of time, Change Order, alteration, modification, deletion, or addition to the Contract Documents, or of the work required thereunder, shall release or exonerate Surety on this Labor and Material Bond or in any way affect the obligations of Surety on this Labor and Material Bond.

11. Any proceeding, legal or equitable, under this Labor and Material Bond shall be instituted in any court of competent jurisdiction in Placer County, California within one (1) year from the date on which (i) the Claimant gave the notice required by Paragraph 4.1 or Paragraph 4.3.3, or (ii) the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Design Assist Contract, whichever of (i) or (ii) first occurs. If the provisions of this Paragraph 11 are void or prohibited by law, the minimum period of limitation available to sureties as a defense in Placer County shall be applicable.

12. Notice to the Surety or the Principal shall be mailed or delivered to the address shown on the signature page below. Actual receipt of notice by the Surety, the City or the Principal, however accomplished, shall be sufficient compliance as of the date received at the address shown on the signature page below. Notice to City shall be delivered to:

    City Clerk of City of Roseville
    311 Vernon Street
    Roseville, CA 95678

13. Any provision in this Labor and Material Bond conflicting with any statutory or regulatory requirement shall be deemed deleted herefrom and provisions conforming to such statutory requirement shall be deemed incorporated herein.

    The intent is that this Labor and Material Bond shall be construed as a statutory bond and not as a common law bond.

EXHIBIT H

LABOR AND MATERIAL BOND

Pleasant Grove Wastewater Treatment Plant Expansion Project

14. Upon request by any person or entity appearing to be a potential beneficiary of this Labor and Material Bond, the Principal shall promptly furnish a copy of this Labor and Material Bond or shall permit a copy to be made.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the undersigned obligated parties have executed this security instrument.

(Corp. Seal)

Principal: W.M. Lyles Co.

Signature:

Name & Title: Anthony M. Mueller, Asst. Vice President

Address: 1210 W. Olive Ave., Fresno, CA 93728

(Corp. Seal)

Surety: Liberty Mutual Insurance Company

Signature:

Name & Title: Bonnie Gonzalez Attorney In Fact

Address: 1340 Treat Blvd. Ste 400 Walnut Creek, CA 94597

EXHIBIT H-4

LABOR AND MATERIAL BOND

EXHIBIT H

LABOR AND MATERIAL BOND

Pleasant Grove Wastewater Treatment Plant Expansion Project

Attorney in Fact: Bonnie Gonzalez

Surety shall submit the following documents along with this Labor and Material Bond:

1. Verification that Surety is admitted to transact surety business in the State of California; and

2. Copy of Surety's Certificate of Authority, issued by the Insurance Commissioner of the State of California, along with a statement that said Certificate has not been surrendered, revoked, cancelled, annulled or suspended.

Approved: _____, City Attorney

END OF DOCUMENT

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT **CIVIL CODE § 1189**

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)

On October 3, 2019 before me, Sonja Brenda Ferris, Notary Public,
Date *Here Insert Name and Title of the Officer*

personally appeared Anthony M. Mueller
Name(s) of Signer(s)

,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) 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.

SONJA BRENDA FERRIS
Notary Public – California
Yolo County
Commission # 2189437
My Comm. Expires Apr 2, 2021

Signature Sonja Brenda Ferris
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document
Title or Type of Document: Labor and Material Bond
Document Date: October 3, 2019 Number of Pages: 4
Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: Anthony M. Mueller	Signer's Name: _____
☑ Corporate Officer — Title(s): Asst. VP	☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General	☐ Partner — ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other: _____	☐ Other: _____
Signer Is Representing: W. M. Lyles Co.	Signer Is Representing: _____

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CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT — Civil Code § 1189

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 Fresno)

On October 3, 2019, before me, L. Genito, Notary Public, personally appeared Bonnie Gonzalez, who proved to me on the basis of satisfactory evidence to be the person~~(s)~~ whose name~~(s)~~ is~~/are~~ subscribed to the within instrument and acknowledged to me that ~~he~~/she/~~they~~ executed the same in ~~his~~/her/~~their~~ authorized capacity~~(ies)~~, and that by ~~his~~/her/~~their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ 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.

L. GENITO
Notary Public - California
Fresno County
Commission # 2272000
My Comm. Expires Jan 16, 2023

Signature: _____

(Seal) L. Genito, Notary Public

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: **8198004-984971**

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Cody Lyman, Ralph B. Busch III, John C. Day, Steven P. Edwards, Lyn Genito, Bonnie Gonzalez

all of the city of Fresno state of California each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 20th day of November, 2018.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: _____
David M. Carey, Assistant Secretary

State of PENNSYLVANIA
County of MONTGOMERY ss

On this 20th day of November, 2018 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2021
Member, Pennsylvania Association of Notaries

By: _____
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS: Section 12. Power of Attorney.
Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts: Section 5. Surety Bonds and Undertakings.
Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 3 day of October 2019

By: _____
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

EXHIBIT I

WARRANTY BOND
(This document shall be executed by Contractor before all Work has been Substantially Complete)

Pleasant Grove Wastewater Treatment Plant Expansion Project

EXHIBIT I

WARRANTY BOND

Pleasant Grove Wastewater Treatment Plant Expansion Project

Bond No. _____
Premium $_____

WARRANTY BOND

This Warranty Bond ("Warranty Bond"), dated _____, 20___, is in the penal sum of _____ for the Agreement for the Design-Assist and Construction of the Pleasant Grove Wastewater Treatment Plant Expansion Project ("Design Assist Contract"), and is entered into by and between the undersigned _____ ("Principal" or "Contractor") and the undersigned _____ ("Surety") to guaranty that all Equipment and Services provided by Contractor under the above-mentioned Design Assist Contract will fulfill the requirements of Contractor's warranties and guarantees included in the Design Assist Contract. This Warranty Bond consists of this page and the following Warranty Bond Terms and Conditions, Paragraphs 1 through 7. Any singular reference to the Principal/Contactor, the Surety, the City of Roseville, California ("City") or other party shall be considered plural where applicable.

BOND TERMS AND CONDITIONS

1. The Principal and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the City for a period of one (1) year following the date of Final Completion, or such longer period specified in the Design Assist Contract, its unconditional warranty of the quality and adequacy of all of the work including, without limitation, all equipment and work provided by Contractor and its subcontractors and subvendors of all tiers in connection with the Design Assist Contract.

2. Neither final payment nor use or occupancy of the Equipment or Services performed by the Contractor shall constitute an acceptance of such Equipment or Services not done in accordance with this Warranty Bond or relieve Contractor of liability in respect to any express guarantees, warranties or responsibilities for faulty materials or workmanship, ordinary wear and tear excepted. If within one (1) year after the date of Final Completion, or such longer period of time as may be prescribed the terms of the Contract Documents, any Equipment or Services is found to be defective, Contractor and Surety shall promptly, without cost to City and in accordance with City's written instructions, correct such defective Equipment or Services. Contractor and Surety shall remove any defective Equipment rejected by City and replace it with Equipment that is not defective. If Contractor or Surety fails to promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, City may have the defective Equipment or Services corrected or removed and replaced. Contractor and Surety shall pay for all claims, costs, losses and damages caused by or resulting from such removal and replacement. Where Contractor and Surety fail to correct defective Equipment or Services, or defects are discovered outside the correction period, City shall have all rights and remedies granted by law.

EXHIBIT I

WARRANTY BOND

Pleasant Grove Wastewater Treatment Plant Expansion Project

3. As part of the obligation secured hereby and in addition to the face amount specified therefor, there shall be included costs and reasonable expenses and fees, including reasonable attorney's fees, incurred by City.

4. The Surety hereby waives notice of any change, alteration or addition to the Design Assist Contract or to related subcontracts, purchase orders and other obligations, including but not limited to changes of time. The Surety consents to all terms of the Design Assist Contract, including provisions on changes to the Contract Documents. No extension of time, Change Order, alteration, Modification, deletion, or addition to the Contract Documents, or of the work required thereunder, shall release or exonerate Surety on this Warranty Bond or in any way affect the obligations of Surety on this Warranty Bond.

5. If the Surety does not proceed as provided in Paragraph 2 above, then the Surety shall be deemed to be in default on this Warranty Bond ten (10) calendar days after receipt of an additional written notice from City to the Surety demanding that the Surety perform its obligations under this Warranty Bond. At all times the City shall be entitled to enforce any remedy available to the City at law or under the Design Assist Contract including, without limitation, and by way of example only, rights to perform work as Surety's expense, protect work, mitigate damages, or coordinate work with other consultants or contractors.

6. All abbreviations and definitions of terms used in this Warranty Bond shall have the meanings set forth in the Contract Documents, including, without means of limitation, the Design Assist Contract.

7. The foregoing Warranty Bond is in addition to any other guarantees and warranties of Contractor contained in the Contract Documents, and not in lieu of, any and all other liability imposed on Contractor under the Contract Documents and at law with respect to Contractor's duties, obligations, and performance under the Design Assist Contract. In the event of any conflict or inconsistency between the terms of this Warranty Bond and any guaranty, warranty or obligation of the Seller under the Design Assist Contract or at law, such inconsistency or conflict shall be resolved in favor of the higher level of obligation of the Contractor and Surety.

8. Notice to the Surety or the Principal shall be mailed or delivered to the address shown on the signature page below. Actual receipt of notice by the Surety, the City or the Principal, however accomplished, shall be sufficient compliance as of the date received at the address shown on the signature page below. Notice to City shall be delivered to:

City Clerk of City of Roseville
311 Vernon Street
Roseville, CA 95678

[SIGNATURES ON FOLLOWING PAGE]

EXHIBIT I-2

WARRANTY BOND

EXHIBIT I

WARRANTY BOND

Pleasant Grove Wastewater Treatment Plant Expansion Project

IN WITNESS WHEREOF, the undersigned obligated parties have executed this instrument.

(Corp. Seal)

Principal: _____

Signature: _____

Name & Title:

Address:

(Corp. Seal)

Surety: _____

Signature: _____

Name & Title:

Address:

Attorney in Fact: _____

Surety shall submit the following documents along with this Warranty Bond:

EXHIBIT I

WARRANTY BOND

Pleasant Grove Wastewater Treatment Plant Expansion Project

1. Verification that Surety is admitted to transact surety business in the State of California; and
2. Copy of Surety's Certificate of Authority, issued by the Insurance Commissioner of the State of California, along with a statement that said Certificate has not been surrendered, revoked, cancelled, annulled or suspended.

Approved: _____, City Attorney

END OF DOCUMENT

EXHIBIT J

ESCROW AGREEMENT FOR SECURITY DEPOSITS IN LIEU OF RETENTION

Pleasant Grove Wastewater Treatment Plant Expansion Project

EXHIBIT J

ESCROW No. 1670

ESCROW AGREEMENT FOR SECURITY DEPOSITS IN LIEU OF RETENTION

(Project: PGWWTP Expansion)

THIS ESCROW AGREEMENT is made and entered into on this 11th day of October, 2019 by and between the:

City of Roseville, whose address is:

311 Vernon Street
Roseville, CA 95678

(hereinafter called "CITY"); and

W. M. Lyles Co., whose address is:
1210 W. Olive Ave., Fresno, CA 93728
PO Box 4438, Fresno, CA 93744

(hereinafter called "CONTRACTOR"); and

Banner Bank, whose address is:
5901 Priestly Dr., Suite 160
Carlsbad, CA 92008

(hereinafter called "ESCROW AGENT").

For the consideration hereinafter set forth, CITY, CONTRACTOR, and ESCROW AGENT agree as follows:

1. Pursuant to Section 22300 of the Public Contract Code of the State of California, CONTRACTOR has the option to deposit securities, subject to prior approval of CITY, with ESCROW AGENT, as a substitute for retention earnings required to be withheld by CITY pursuant to the contract for public works entered into between the CITY and CONTRACTOR for the Project in the amount of Fifty Four Million, Four Hundred Thousand and Zero Cents dollars ($54,400,000.00) dated November 6, 2019, (hereinafter

referred to as the "Contract"). Alternatively, on written request of CONTRACTOR, CITY shall make payments of the retention earnings directly to the ESCROW AGENT.

When CONTRACTOR deposits the securities as a substitute for Contract earnings, the ESCROW AGENT shall notify CITY within ten (10) days of the deposit. The market value of the securities at the time of the substitution shall be at least equal to the cash amount then required to be withheld as retention under the terms of the Contract between CITY and CONTRACTOR. Securities shall be held in the name of ESCROW AGENT, and shall designate CONTRACTOR as the beneficial owner, and shall be limited to those types of acceptable securities as described in Public Contract Code Section 22300.

2. CITY shall make progress payments to CONTRACTOR for those funds which otherwise would be withheld from progress payments pursuant to the Contract provisions, provided that ESCROW AGENT holds securities in the form and amount specified above.

3. When CITY makes payment of retentions earned directly to ESCROW AGENT, ESCROW AGENT shall hold them for the benefit of CONTRACTOR until the time that the escrow created under this Agreement is terminated. CONTRACTOR may direct the investment of the payments into securities. All terms and conditions of this Agreement and the rights and responsibilities of the parties shall be equally applicable and binding when CITY pays ESCROW AGENT directly.

4. CONTRACTOR shall be responsible for paying all fees for the expenses incurred by ESCROW AGENT in administering the Escrow Account and all expenses of CITY. These expenses and payment terms shall be determined by CITY, CONTRACTOR, and ESCROW AGENT.

5. The interest earned on the securities or the money market accounts held in escrow and all interest earning on that interest shall be for the sole account of CONTRACTOR and shall

be subject to withdrawal by CONTRACTOR at any time and from time to time without notice to CITY.

6. CONTRACTOR shall have the right to withdraw all or any part of the principal in the Escrow Account only by written notice to ESCROW AGENT accompanied by written authorization from CITY to ESCROW AGENT that CITY consents to the withdrawal of the amount sought to be withdrawn by CONTRACTOR.

7. CITY shall have a right to draw upon the securities in the event of default by CONTRACTOR. Upon seven (7) days' written notice to ESCROW AGENT from CITY of the default, ESCROW AGENT shall immediately convert the securities to cash and shall distribute the cash as instructed by CITY.

8. Only upon receipt of written notification from CITY certifying that the Contract is final and complete, and that CONTRACTOR has complied with all requirements and procedures applicable to the Contract, ESCROW AGENT shall release to CONTRACTOR all securities and interest on deposit less escrow fees and charges of the Escrow Account. The escrow shall be closed immediately upon disbursement of all moneys and securities on deposit and payments of fees and charges.

9. ESCROW AGENT shall rely on the written notifications from CITY and CONTRACTOR pursuant to Sections (5) to (8), inclusive, of this Agreement and CONTRACTOR shall hold ESCROW AGENT harmless from ESCROW AGENT's release and disbursement of the securities and interest as set forth above.

10. The parties hereto mutually agree that this Agreement is substantially similar to the form under Public Contracts Code Section 22300.

11. The names of the persons who are authorized to give written notice or to receive written notice on behalf of CITY and on behalf of CONTRACTOR in connection with the foregoing, and exemplars of their respective signatures are as follows:

On behalf of CITY:

Environmental Utilities Director
Title

Richard D Plecker
Name

Signature

311 Vernon Street, Roseville, CA 95678
Address

On behalf of CONTRACTOR:

Assistant Vice President
Title

Anthony M. Mueller
Name

Signature

PO Box 4438, Fresno, Ca 93744
Address

On behalf of ESCROW AGENT:

Escrow Administrator
Title

Francisca Pardo
Name

Signature

5901 Priestly, Dr, Suite 160, Carlsbad, CA 92008
Address

12. At the time the Escrow Account is opened, CITY and CONTRACTOR shall deliver to ESCROW AGENT a fully executed counterpart of this Agreement.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this Agreement by its City Manager and attestation by its City Clerk under the authority of Resolution No. 87-141, adopted by the Council of the City of Roseville on the 5th

day of August, 1987, and CONTRACTOR and ESCROW AGENT have authorized the execution of this Agreement.

CITY OF ROSEVILLE, a municipal corporation:

BY: _____
DOMINICK CASEY
City Manager

ATTEST:

BY: _____
for SONIA OROZCO
City Clerk

APPROVED AS TO FORM:

BY: _____
ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

BY: _____
DENNIS KAUFFMAN
Chief Financial Officer

CONTRACTOR:

W. M. Lyles Co., a California Corporation

BY: _____

its: Anthony M. Mueller, Asst Vice President

and

BY: _____

its: Ruben Moreno, Jr. Secretary

ESCROW AGENT:

BY: _____

its: Francisca Pardo, Escrow Administrator

and

BY: _____

its: _____

ACKNOWLEDGED BY ADMINISTERING DEPARTMENT:

BY: _____
Richard D. Plecker
Environmental Utilities Director

EXHIBIT K

WORKER'S COMPENSATION INSURANCE CERTIFICATION

Pleasant Grove Wastewater Treatment Plant Expansion Project

EXHIBIT K

WORKER'S COMPENSATION INSURANCE CERTIFICATION

Pleasant Grove Wastewater Treatment Plant Expansion Project

In accordance with California Labor Code Section 1861, prior to commencement of any Work, the Contractor shall sign and file with the City the following certification:

> "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 Agreement."

By: _____

Title: Anthony M. Mueller, Asst. Vice President

Contractor: W. M. Lyles Co.

Date: October 10, 2019

*****END OF EXHIBIT K*****

EXHIBIT K-1

WORKER'S COMPENSATION INSURANCE CERTIFICATE

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EXHIBIT K-2

WORKER'S COMPENSATION INSURANCE CERTIFICATE

EXHIBIT L

CONTRACTOR INSURANCE CERTIFICATES

Pleasant Grove Wastewater Treatment Plant Expansion Project

LYLEDIR-01 NLIMON

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 10/9/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
Fresno CSG-Alliant Insurance Services, Inc. 9 E River Park Place East Ste 310 Fresno, CA 93720	PHONE (A/C, No, Ext): (559) 374-3560	FAX (A/C, No):
	E-MAIL ADDRESS:	

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Old Republic Insurance Company	24147
INSURER B : Allied World Assurance Company (U.S.) Inc	19489
INSURER C : Berkley Assurance Company	39462
INSURER D :	
INSURER E :	
INSURER F :	

INSURED

W.M. Lyles Co
P.O. Box 4377
Fresno, CA 93744-4377

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR X XCU Included GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT LOC X OTHER: Self-Insured Retention: $10,000	X	X	MWZY31334219	5/31/2019	5/31/2020	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG EBL Each Employ	$ 2,000,000 $ 750,000 $ 10,000 $ 2,000,000 $ 4,000,000 $ 4,000,000 $ 2,000,000
A	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY / SCHEDULED AUTOS X HIRED AUTOS ONLY / X NON-OWNED AUTOS ONLY X 1,000 Comp Ded / X 1,000 Coll Ded	X	X	MWTB31334319	5/31/2019	5/31/2020	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 2,000,000 $ $ $
B	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED X RETENTION $ 10,000	X	X	0308-3900	5/31/2019	5/31/2020	EACH OCCURRENCE AGGREGATE	$ 8,000,000 $ 8,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	X	MWC31334119	5/31/2019	5/31/2020	X PER STATUTE / OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000
C	Contractor Pollution			PCADB-5008741-0519	5/31/2019	5/31/2020	$2M Each/Aggregate	2,000,000
C	Contractors Professi			PCADB-5008741-0519	5/31/2019	5/31/2020	$2M Each/Aggregate	4,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Re: Design-Assist and Construction of Pleasant Grove Wastewater Treatment Plant Expansion Project, 5051 Westpark Dr. Roseville, CA 95747.
City of Roseville, Construction Manager, Engineer, Funding Agencies and their directors, elected officials, officers, officials, employees, agents, consultants and volunteers are included as Additional Insureds on primary and non-contributory basis, per project aggregate applies, waiver of subrogation applies.

Endorsement(s) Attached:
General Liability Additional Insured
General Liability Additional Insured - Completed Operations
SEE ATTACHED ACORD 101

CERTIFICATE HOLDER

City of Roseville
311 Vernon Street
Roseville, CA 95678

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
Nicoletta Limon

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AGENCY CUSTOMER ID: LYLEDIR-01 NLIMON

LOC #: 1

ADDITIONAL REMARKS SCHEDULE

AGENCY	NAMED INSURED
Fresno CSG-Alliant Insurance Services, Inc.	W.M. Lyles Co P.O. Box 4377 Fresno, CA 93744-4377
POLICY NUMBER SEE PAGE 1	
CARRIER: SEE PAGE 1 / NAIC CODE: SEE P 1	EFFECTIVE DATE: SEE PAGE 1

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: ACORD 25 FORM TITLE: Certificate of Liability Insurance

Description of Operations/Locations/Vehicles:
General Liability Primary and Non-Contributory
General Liability Per project aggregate
General Liability Waiver of Subrogation
Automobile Liability Additional Insured
Automobile Liability Primary and Non-Contributory
Automobile Liability Waiver of Subrogation
Workers' Compensation Waiver of Subrogation
Cancellation Provisions

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POLICY NUMBER: MWZY31334219

COMMERCIAL GENERAL LIABILITY
CG 20 10 04 13

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – SCHEDULED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location(s) Of Covered Operations
Any person or organization contractually requiring status as an additional insured for ongoing operations that you perform for them	The locations as specified in the written contracts or agreements
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

A. Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

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C. With respect to the insurance afforded to these additional insureds, the following is added to **Section III – Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

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POLICY NUMBER: MWZY31334219

COMMERCIAL GENERAL LIABILITY
CG 20 37 04 13

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – COMPLETED OPERATIONS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location And Description Of Completed Operations
As required by written contract or agreement	The locations as specified in the written contracts or agreements
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

A. Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the Schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following is added to **Section III – Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

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Policy Number: MWZY31334219

COMMERCIAL GENERAL LIABILITY
CG 20 01 04 13

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

PRIMARY AND NONCONTRIBUTORY – OTHER INSURANCE CONDITION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

The following is added to the **Other Insurance** Condition and supersedes any provision to the contrary:

Primary And Noncontributory Insurance

This insurance is primary to and will not seek contribution from any other insurance available to an additional insured under your policy provided that:

(1) The additional insured is a Named Insured under such other insurance; and

(2) You have agreed in writing in a contract or agreement that this insurance would be primary and would not seek contribution from any other insurance available to the additional insured.

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POLICY NUMBER: MWZY31334219

COMMERCIAL GENERAL LIABILITY
CG 25 03 05 09

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DESIGNATED CONSTRUCTION PROJECT(S) GENERAL AGGREGATE LIMIT

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Designated Construction Project(s):
The projects as specified in the written contracts or agreements
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

A. For all sums which the insured becomes legally obligated to pay as damages caused by "occurrences" under Section I – Coverage A, and for all medical expenses caused by accidents under Section I – Coverage C, which can be attributed only to ongoing operations at a single designated construction project shown in the Schedule above:

1. A separate Designated Construction Project General Aggregate Limit applies to each designated construction project, and that limit is equal to the amount of the General Aggregate Limit shown in the Declarations.
2. The Designated Construction Project General Aggregate Limit is the most we will pay for the sum of all damages under Coverage A, except damages because of "bodily injury" or "property damage" included in the "products-completed operations hazard", and for medical expenses under Coverage C regardless of the number of:
   a. Insureds;
   b. Claims made or "suits" brought; or
   c. Persons or organizations making claims or bringing "suits".
3. Any payments made under Coverage A for damages or under Coverage C for medical expenses shall reduce the Designated Construction Project General Aggregate Limit for that designated construction project. Such payments shall not reduce the General Aggregate Limit shown in the Declarations nor shall they reduce any other Designated Construction Project General Aggregate Limit for any other designated construction project shown in the Schedule above.
4. The limits shown in the Declarations for Each Occurrence, Damage To Premises Rented To You and Medical Expense continue to apply. However, instead of being subject to the General Aggregate Limit shown in the Declarations, such limits will be subject to the applicable Designated Construction Project General Aggregate Limit.

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POLICY NUMBER: MWZY31334219

COMMERCIAL GENERAL LIABILITY
CG 24 04 05 09

WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

SCHEDULE

Name Of Person Or Organization:
Any persons or organizations requiring a waiver of transfer of rights of recovery pursuant to the terms of any contract or agreement you enter into with such person or organization
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

The following is added to Paragraph **8. Transfer Of Rights Of Recovery Against Others To Us** of **Section IV – Conditions:**

We waive any right of recovery we may have against the person or organization shown in the Schedule above because of payments we make for injury or damage arising out of your ongoing operations or "your work" done under a contract with that person or organization and included in the "products-completed operations hazard". This waiver applies only to the person or organization shown in the Schedule above.

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Policy No. MWZY31334219
Policy Term: 5/31/2019 - 2020

IL 02 70 09 12

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

CALIFORNIA CHANGES – CANCELLATION AND NONRENEWAL

This endorsement modifies insurance provided under the following:

CAPITAL ASSETS PROGRAM (OUTPUT POLICY) COVERAGE PART
COMMERCIAL AUTOMOBILE COVERAGE PART
COMMERCIAL GENERAL LIABILITY COVERAGE PART
COMMERCIAL INLAND MARINE COVERAGE PART
COMMERCIAL PROPERTY COVERAGE PART
CRIME AND FIDELITY COVERAGE PART
EMPLOYMENT-RELATED PRACTICES LIABILITY COVERAGE PART
EQUIPMENT BREAKDOWN COVERAGE PART
FARM COVERAGE PART
LIQUOR LIABILITY COVERAGE PART
MEDICAL PROFESSIONAL LIABILITY COVERAGE PART
POLLUTION LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

A. Paragraphs **2.** and **3.** of the **Cancellation** Common Policy Condition are replaced by the following:

2. All Policies In Effect For 60 Days Or Less

If this policy has been in effect for 60 days or less, and is not a renewal of a policy we have previously issued, we may cancel this policy by mailing or delivering to the first Named Insured, at the mailing address shown in the policy, and to the producer of record, advance written notice of cancellation, stating the reason for cancellation, at least:

a. 10 days before the effective date of cancellation if we cancel for:

(1) Nonpayment of premium; or

(2) Discovery of fraud by:

(a) Any insured or his or her representative in obtaining this insurance; or

(b) You or your representative in pursuing a claim under this policy.

b. 30 days before the effective date of cancellation if we cancel for any other reason.

3. All Policies In Effect For More Than 60 Days

a. If this policy has been in effect for more than 60 days, or is a renewal of a policy we issued, we may cancel this policy only upon the occurrence, after the effective date of the policy, of one or more of the following:

(1) Nonpayment of premium, including payment due on a prior policy we issued and due during the current policy term covering the same risks.

(2) Discovery of fraud or material misrepresentation by:

(a) Any insured or his or her representative in obtaining this insurance; or

(b) You or your representative in pursuing a claim under this policy.

(3) A judgment by a court or an administrative tribunal that you have violated a California or Federal law, having as one of its necessary elements an act which materially increases any of the risks insured against.

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(4) Discovery of willful or grossly negligent acts or omissions, or of any violations of state laws or regulations establishing safety standards, by you or your representative, which materially increase any of the risks insured against.

(5) Failure by you or your representative to implement reasonable loss control requirements, agreed to by you as a condition of policy issuance, or which were conditions precedent to our use of a particular rate or rating plan, if that failure materially increases any of the risks insured against.

(6) A determination by the Commissioner of Insurance that the:

(a) Loss of, or changes in, our reinsurance covering all or part of the risk would threaten our financial integrity or solvency; or

(b) Continuation of the policy coverage would:

(i) Place us in violation of California law or the laws of the state where we are domiciled; or

(ii) Threaten our solvency.

(7) A change by you or your representative in the activities or property of the commercial or industrial enterprise, which results in a materially added, increased or changed risk, unless the added, increased or changed risk is included in the policy.

b. We will mail or deliver advance written notice of cancellation, stating the reason for cancellation, to the first Named Insured, at the mailing address shown in the policy, and to the producer of record, at least:

(1) 10 days before the effective date of cancellation if we cancel for nonpayment of premium or discovery of fraud; or

(2) 30 days before the effective date of cancellation if we cancel for any other reason listed in Paragraph **3.a.**

B. The following provision is added to the **Cancellation** Common Policy Condition:

7. Residential Property

This provision applies to coverage on real property which is used predominantly for residential purposes and consisting of not more than four dwelling units, and to coverage on tenants' household personal property in a residential unit, if such coverage is written under one of the following:

Commercial Property Coverage Part

Farm Coverage Part – Farm Property – Farm Dwellings, Appurtenant Structures And Household Personal Property Coverage Form

a. If such coverage has been in effect for 60 days or less, and is not a renewal of coverage we previously issued, we may cancel this coverage for any reason, except as provided in **b.** and **c.** below.

b. We may not cancel this policy solely because the first Named Insured has:

(1) Accepted an offer of earthquake coverage; or

(2) Cancelled or did not renew a policy issued by the California Earthquake Authority (CEA) that included an earthquake policy premium surcharge.

However, we shall cancel this policy if the first Named Insured has accepted a new or renewal policy issued by the CEA that includes an earthquake policy premium surcharge but fails to pay the earthquake policy premium surcharge authorized by the CEA.

c. We may not cancel such coverage solely because corrosive soil conditions exist on the premises. This restriction **(c.)** applies only if coverage is subject to one of the following, which exclude loss or damage caused by or resulting from corrosive soil conditions:

(1) Commercial Property Coverage Part – Causes Of Loss – Special Form; or

(2) Farm Coverage Part – Causes Of Loss Form – Farm Property, Paragraph **D.** Covered Causes Of Loss – Special.

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C. The following is added and supersedes any provisions to the contrary:

Nonrenewal

1. Subject to the provisions of Paragraphs **C.2.** and **C.3.** below, if we elect not to renew this policy, we will mail or deliver written notice, stating the reason for nonrenewal, to the first Named Insured shown in the Declarations, and to the producer of record, at least 60 days, but not more than 120 days, before the expiration or anniversary date.

   We will mail or deliver our notice to the first Named Insured, and to the producer of record, at the mailing address shown in the policy.

2. **Residential Property**

   This provision applies to coverage on real property used predominantly for residential purposes and consisting of not more than four dwelling units, and to coverage on tenants' household property contained in a residential unit, if such coverage is written under one of the following:

   Commercial Property Coverage Part

   Farm Coverage Part – Farm Property – Farm Dwellings, Appurtenant Structures And Household Personal Property Coverage Form

   a. We may elect not to renew such coverage for any reason, except as provided in **b.**, **c.** and **d.** below.

   b. We will not refuse to renew such coverage solely because the first Named Insured has accepted an offer of earthquake coverage.

      However, the following applies only to insurers who are associate participating insurers as established by Cal. Ins. Code Section 10089.16. We may elect not to renew such coverage after the first Named Insured has accepted an offer of earthquake coverage, if one or more of the following reasons applies:

      (1) The nonrenewal is based on sound underwriting principles that relate to the coverages provided by this policy and that are consistent with the approved rating plan and related documents filed with the Department of Insurance as required by existing law;

      (2) The Commissioner of Insurance finds that the exposure to potential losses will threaten our solvency or place us in a hazardous condition. A hazardous condition includes, but is not limited to, a condition in which we make claims payments for losses resulting from an earthquake that occurred within the preceding two years and that required a reduction in policyholder surplus of at least 25% for payment of those claims; or

      (3) We have:

         (a) Lost or experienced a substantial reduction in the availability or scope of reinsurance coverage; or

         (b) Experienced a substantial increase in the premium charged for reinsurance coverage of our residential property insurance policies; and

      the Commissioner has approved a plan for the nonrenewals that is fair and equitable, and that is responsive to the changes in our reinsurance position.

   c. We will not refuse to renew such coverage solely because the first Named Insured has cancelled or did not renew a policy, issued by the California Earthquake Authority, that included an earthquake policy premium surcharge.

   d. We will not refuse to renew such coverage solely because corrosive soil conditions exist on the premises. This restriction **(d.)** applies only if coverage is subject to one of the following, which exclude loss or damage caused by or resulting from corrosive soil conditions:

      (1) Commercial Property Coverage Part – Causes Of Loss – Special Form; or

      (2) Farm Coverage Part – Causes Of Loss Form – Farm Property, Paragraph **D.** Covered Causes Of Loss – Special.

3. We are not required to send notice of nonrenewal in the following situations:

   a. If the transfer or renewal of a policy, without any changes in terms, conditions or rates, is between us and a member of our insurance group.

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b. If the policy has been extended for 90 days or less, provided that notice has been given in accordance with Paragraph **C.1.**

c. If you have obtained replacement coverage, or if the first Named Insured has agreed, in writing, within 60 days of the termination of the policy, to obtain that coverage.

d. If the policy is for a period of no more than 60 days and you are notified at the time of issuance that it will not be renewed.

e. If the first Named Insured requests a change in the terms or conditions or risks covered by the policy within 60 days of the end of the policy period.

f. If we have made a written offer to the first Named Insured, in accordance with the timeframes shown in Paragraph **C.1.**, to renew the policy under changed terms or conditions or at an increased premium rate, when the increase exceeds 25%.

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POLICY NUMBER: MWTB31334319

COMMERCIAL AUTO
CA 20 48 10 13

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DESIGNATED INSURED FOR COVERED AUTOS LIABILITY COVERAGE

This endorsement modifies insurance provided under the following:

AUTO DEALERS COVERAGE FORM
BUSINESS AUTO COVERAGE FORM
MOTOR CARRIER COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by this endorsement.

This endorsement identifies person(s) or organization(s) who are "insureds" for Covered Autos Liability Coverage under the Who Is An Insured provision of the Coverage Form. This endorsement does not alter coverage provided in the Coverage Form.

This endorsement changes the policy effective on the inception date of the policy unless another date is indicated below.

Named Insured: W.M. Lyles Co.

Endorsement Effective Date: 05/31/2019

SCHEDULE

Name Of Person(s) Or Organization(s):
All Persons or organizations as required by contract or agreement
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

Each person or organization shown in the Schedule is an "insured" for Covered Autos Liability Coverage, but only to the extent that person or organization qualifies as an "insured" under the Who Is An Insured provision contained in Paragraph **A.1.** of Section **II** – Covered Autos Liability Coverage in the Business Auto and Motor Carrier Coverage Forms and Paragraph **D.2.** of Section **I** – Covered Autos Coverages of the Auto Dealers Coverage Form.

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POLICY NUMBER: MWTB31334319

COMMERCIAL AUTO
CA0001 03 10

INSURED: W.M. LYLES Co

EFFECTIVE: 5/31/2019

COMPANY: OLD REPUBLIC INSURANCE COMPANY

BUSINESS AUTO COVERAGE FORM

5. Other Insurance

a. For any covered "auto" you own this Coverage Form provides primary insurance For any covered "auto" you don't own the insurance provided by this Coverage Form is excess over any other collectible insurance However while a covered "auto" which is a "trailer" is connected to another vehicle the Covered Autos Liability Coverage this Coverage Form provides for the "trailer" is

(1) Excess while it is connected to a motor vehicle you do not own or

(2) Primary while it is connected to a covered "auto" you own

b. For Hired Auto Physical Damage Coverage any covered "auto" you lease hire rent or borrow is deemed to be a covered "auto" you own However any "auto" that is leased hired rented or borrowed with a driver is not a covered "auto"

c. Regardless of the provisions of Paragraph

a. above this Coverage Form's Covered Autos Liability Coverage is primary for any liability assumed under an "insured contract"

d. When this Coverage Form and any other Coverage Form or policy covers on the same basis either excess or primary we will pay only our share Our share is the proportion that the Limit of Insurance of our Coverage Form bears to the total of the limits of all the Coverage Forms and policies covering on the same basis

4. **Loss Payment – Physical Damage Coverages**

   At our option, we may:

   a. Pay for, repair or replace damaged or stolen property;

   b. Return the stolen property, at our expense. We will pay for any damage that results to the "auto" from the theft; or

   c. Take all or any part of the damaged or stolen property at an agreed or appraised value.

   If we pay for the "loss", our payment will include the applicable sales tax for the damaged or stolen property.

5. **Transfer Of Rights Of Recovery Against Others To Us**

   If any person or organization to or for whom we make payment under this Coverage Form has rights to recover damages from another, those rights are transferred to us. That person or organization must do everything necessary to secure our rights and must do nothing after "accident" or "loss" to impair them.

B. General Conditions

1. **Bankruptcy**

   Bankruptcy or insolvency of the "insured" or the "insured's" estate will not relieve us of any obligations under this Coverage Form.

2. **Concealment, Misrepresentation Or Fraud**

   This Coverage Form is void in any case of fraud by you at any time as it relates to this Coverage Form. It is also void if you or any other "insured", at any time, intentionally conceals or misrepresents a material fact concerning:

   a. This Coverage Form;

   b. The covered "auto";

   c. Your interest in the covered "auto"; or

   d. A claim under this Coverage Form.

3. **Liberalization**

   If we revise this Coverage Form to provide more coverage without additional premium charge, your policy will automatically provide the additional coverage as of the day the revision is effective in your state.

4. **No Benefit To Bailee – Physical Damage Coverages**

   We will not recognize any assignment or grant any coverage for the benefit of any person or organization holding, storing or transporting property for a fee regardless of any other provision of this Coverage Form.

5. **Other Insurance**

   a. For any covered "auto" you own, this Coverage Form provides primary insurance. For any covered "auto" you don't own, the insurance provided by this Coverage Form is excess over any other collectible insurance. However, while a covered "auto" which is a "trailer" is connected to another vehicle, the Covered Autos Liability Coverage this Coverage Form provides for the "trailer" is:

      (1) Excess while it is connected to a motor vehicle you do not own; or

      (2) Primary while it is connected to a covered "auto" you own.

   b. For Hired Auto Physical Damage Coverage, any covered "auto" you lease, hire, rent or borrow is deemed to be a covered "auto" you own. However, any "auto" that is leased, hired, rented or borrowed with a driver is not a covered "auto".

   c. Regardless of the provisions of Paragraph a. above, this Coverage Form's Covered Autos Liability Coverage is primary for any liability assumed under an "insured contract".

   d. When this Coverage Form and any other Coverage Form or policy covers on the same basis, either excess or primary, we will pay only our share. Our share is the proportion that the Limit of Insurance of our Coverage Form bears to the total of the limits of all the Coverage Forms and policies covering on the same basis.

6. **Premium Audit**

   a. The estimated premium for this Coverage Form is based on the exposures you told us you would have when this policy began. We will compute the final premium due when we determine your actual exposures. The estimated total premium will be credited against the final premium due and the first Named Insured will be billed for the balance, if any. The due date for the final premium or retrospective premium is the date shown as the due date on the bill. If the estimated total premium exceeds the final premium due, the first Named Insured will get a refund.

   b. If this policy is issued for more than one year, the premium for this Coverage Form will be computed annually based on our rates or premiums in effect at the beginning of each year of the policy.

POLICY NUMBER: MWTB31334319
POLICY TERM: 5/31/2019 - 5/31/2020

IL 10 (12/06) OLD REPUBLIC INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

This endorsement modifies insurance provided under the following:

AUTO DEALERS COVERAGE FORM
BUSINESS AUTO COVERAGE FORM
MOTOR CARRIER COVERAGE FORM

SCHEDULE

Name of Person or Organization:
All persons or organizations as required by contract or agreement

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

The **Transfer Of Rights Of Recovery Against Others To Us** Condition is changed by adding the following:

We waive any right of recovery we may have against the person(s) or organization(s) shown in the Schedule because of payments we make for injury or damage. This waiver applies only to the person or organization shown in the Schedule.

Policy No. MWTB31334319
Policy Term: 5/31/2019 - 5/31/2020

IL 02 70 09 12

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

CALIFORNIA CHANGES – CANCELLATION AND NONRENEWAL

This endorsement modifies insurance provided under the following:

CAPITAL ASSETS PROGRAM (OUTPUT POLICY) COVERAGE PART
COMMERCIAL AUTOMOBILE COVERAGE PART
COMMERCIAL GENERAL LIABILITY COVERAGE PART
COMMERCIAL INLAND MARINE COVERAGE PART
COMMERCIAL PROPERTY COVERAGE PART
CRIME AND FIDELITY COVERAGE PART
EMPLOYMENT-RELATED PRACTICES LIABILITY COVERAGE PART
EQUIPMENT BREAKDOWN COVERAGE PART
FARM COVERAGE PART
LIQUOR LIABILITY COVERAGE PART
MEDICAL PROFESSIONAL LIABILITY COVERAGE PART
POLLUTION LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

A. Paragraphs **2.** and **3.** of the **Cancellation** Common Policy Condition are replaced by the following:

2. All Policies In Effect For 60 Days Or Less

If this policy has been in effect for 60 days or less, and is not a renewal of a policy we have previously issued, we may cancel this policy by mailing or delivering to the first Named Insured, at the mailing address shown in the policy, and to the producer of record, advance written notice of cancellation, stating the reason for cancellation, at least:

a. 10 days before the effective date of cancellation if we cancel for:

(1) Nonpayment of premium; or

(2) Discovery of fraud by:

(a) Any insured or his or her representative in obtaining this insurance; or

(b) You or your representative in pursuing a claim under this policy.

b. 30 days before the effective date of cancellation if we cancel for any other reason.

3. All Policies In Effect For More Than 60 Days

a. If this policy has been in effect for more than 60 days, or is a renewal of a policy we issued, we may cancel this policy only upon the occurrence, after the effective date of the policy, of one or more of the following:

(1) Nonpayment of premium, including payment due on a prior policy we issued and due during the current policy term covering the same risks.

(2) Discovery of fraud or material misrepresentation by:

(a) Any insured or his or her representative in obtaining this insurance; or

(b) You or your representative in pursuing a claim under this policy.

(3) A judgment by a court or an administrative tribunal that you have violated a California or Federal law, having as one of its necessary elements an act which materially increases any of the risks insured against.

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(4) Discovery of willful or grossly negligent acts or omissions, or of any violations of state laws or regulations establishing safety standards, by you or your representative, which materially increase any of the risks insured against.

(5) Failure by you or your representative to implement reasonable loss control requirements, agreed to by you as a condition of policy issuance, or which were conditions precedent to our use of a particular rate or rating plan, if that failure materially increases any of the risks insured against.

(6) A determination by the Commissioner of Insurance that the:

(a) Loss of, or changes in, our reinsurance covering all or part of the risk would threaten our financial integrity or solvency; or

(b) Continuation of the policy coverage would:

(i) Place us in violation of California law or the laws of the state where we are domiciled; or

(ii) Threaten our solvency.

(7) A change by you or your representative in the activities or property of the commercial or industrial enterprise, which results in a materially added, increased or changed risk, unless the added, increased or changed risk is included in the policy.

b. We will mail or deliver advance written notice of cancellation, stating the reason for cancellation, to the first Named Insured, at the mailing address shown in the policy, and to the producer of record, at least:

(1) 10 days before the effective date of cancellation if we cancel for nonpayment of premium or discovery of fraud; or

(2) 30 days before the effective date of cancellation if we cancel for any other reason listed in Paragraph **3.a.**

B. The following provision is added to the **Cancellation** Common Policy Condition:

7. Residential Property

This provision applies to coverage on real property which is used predominantly for residential purposes and consisting of not more than four dwelling units, and to coverage on tenants' household personal property in a residential unit, if such coverage is written under one of the following:

Commercial Property Coverage Part

Farm Coverage Part – Farm Property – Farm Dwellings, Appurtenant Structures And Household Personal Property Coverage Form

a. If such coverage has been in effect for 60 days or less, and is not a renewal of coverage we previously issued, we may cancel this coverage for any reason, except as provided in **b.** and **c.** below.

b. We may not cancel this policy solely because the first Named Insured has:

(1) Accepted an offer of earthquake coverage; or

(2) Cancelled or did not renew a policy issued by the California Earthquake Authority (CEA) that included an earthquake policy premium surcharge.

However, we shall cancel this policy if the first Named Insured has accepted a new or renewal policy issued by the CEA that includes an earthquake policy premium surcharge but fails to pay the earthquake policy premium surcharge authorized by the CEA.

c. We may not cancel such coverage solely because corrosive soil conditions exist on the premises. This restriction **(c.)** applies only if coverage is subject to one of the following, which exclude loss or damage caused by or resulting from corrosive soil conditions:

(1) Commercial Property Coverage Part – Causes Of Loss – Special Form; or

(2) Farm Coverage Part – Causes Of Loss Form – Farm Property, Paragraph **D.** Covered Causes Of Loss – Special.

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C. The following is added and supersedes any provisions to the contrary:

Nonrenewal

1. Subject to the provisions of Paragraphs C.2. and C.3. below, if we elect not to renew this policy, we will mail or deliver written notice, stating the reason for nonrenewal, to the first Named Insured shown in the Declarations, and to the producer of record, at least 60 days, but not more than 120 days, before the expiration or anniversary date.

   We will mail or deliver our notice to the first Named Insured, and to the producer of record, at the mailing address shown in the policy.

2. **Residential Property**

   This provision applies to coverage on real property used predominantly for residential purposes and consisting of not more than four dwelling units, and to coverage on tenants' household property contained in a residential unit, if such coverage is written under one of the following:

   Commercial Property Coverage Part

   Farm Coverage Part – Farm Property – Farm Dwellings, Appurtenant Structures And Household Personal Property Coverage Form

   a. We may elect not to renew such coverage for any reason, except as provided in b., c. and d. below.

   b. We will not refuse to renew such coverage solely because the first Named Insured has accepted an offer of earthquake coverage.

      However, the following applies only to insurers who are associate participating insurers as established by Cal. Ins. Code Section 10089.16. We may elect not to renew such coverage after the first Named Insured has accepted an offer of earthquake coverage, if one or more of the following reasons applies:

      (1) The nonrenewal is based on sound underwriting principles that relate to the coverages provided by this policy and that are consistent with the approved rating plan and related documents filed with the Department of Insurance as required by existing law;

      (2) The Commissioner of Insurance finds that the exposure to potential losses will threaten our solvency or place us in a hazardous condition. A hazardous condition includes, but is not limited to, a condition in which we make claims payments for losses resulting from an earthquake that occurred within the preceding two years and that required a reduction in policyholder surplus of at least 25% for payment of those claims; or

      (3) We have:

         (a) Lost or experienced a substantial reduction in the availability or scope of reinsurance coverage; or

         (b) Experienced a substantial increase in the premium charged for reinsurance coverage of our residential property insurance policies; and

      the Commissioner has approved a plan for the nonrenewals that is fair and equitable, and that is responsive to the changes in our reinsurance position.

   c. We will not refuse to renew such coverage solely because the first Named Insured has cancelled or did not renew a policy, issued by the California Earthquake Authority, that included an earthquake policy premium surcharge.

   d. We will not refuse to renew such coverage solely because corrosive soil conditions exist on the premises. This restriction (d.) applies only if coverage is subject to one of the following, which exclude loss or damage caused by or resulting from corrosive soil conditions:

      (1) Commercial Property Coverage Part – Causes Of Loss – Special Form; or

      (2) Farm Coverage Part – Causes Of Loss Form – Farm Property, Paragraph D. Covered Causes Of Loss – Special.

3. We are not required to send notice of nonrenewal in the following situations:

   a. If the transfer or renewal of a policy, without any changes in terms, conditions or rates, is between us and a member of our insurance group.

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b. If the policy has been extended for 90 days or less, provided that notice has been given in accordance with Paragraph **C.1.**

c. If you have obtained replacement coverage, or if the first Named Insured has agreed, in writing, within 60 days of the termination of the policy, to obtain that coverage.

d. If the policy is for a period of no more than 60 days and you are notified at the time of issuance that it will not be renewed.

e. If the first Named Insured requests a change in the terms or conditions or risks covered by the policy within 60 days of the end of the policy period.

f. If we have made a written offer to the first Named Insured, in accordance with the timeframes shown in Paragraph **C.1.**, to renew the policy under changed terms or conditions or at an increased premium rate, when the increase exceeds 25%.

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WORKERS COMPENSATION AND EMPLOYERS LIABILITY INSURANCE POLICY **WC 04 03 06**

POLICY NUMBER: MWC31334119

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT - CALIFORNIA

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

You must maintain payroll records accurately segregating the remuneration of your employees while engaged in the work described in the Schedule.

The additional premium for this endorsement shall be 0 % of the California workers' compensation premium otherwise due on such remuneration.

SCHEDULE

PERSON OR ORGANIZATION	JOB DESCRIPTION
BLANKET COVERAGE AS REQUIRED BY WRITTEN CONTRACT	

DATE OF ISSUE: 5/31/2019

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Policy #: MWC31334119
Effective: 5/31/2019

WC 04 06 01 A

WORKERS COMPENSATION AND EMPLOYERS LIABILITY INSURANCE POLICY

CALIFORNIA CANCELATION ENDORSEMENT

This endorsement applies only to the insurance provided by the policy because California is shown in Item 3.A. of the INFORMATION PAGE.

The cancelation condition in Part Six (Conditions) of the policy is replaced by these conditions:

CANCELATION

1. You may cancel this policy. You must mail or deliver advance written notice to us stating when the cancelation is to take effect.

2. We may cancel this policy for one or more of the following reasons:

   a. Non-payment of premium;

   b. Failure to report payroll;

   c. Failure to permit us to audit payroll as required by the terms of this policy or of a previous policy issued by us;

   d. Failure to pay any additional premium resulting from an audit of payroll required by the terms of this policy or any previous policy issued by us;

   e. Material misrepresentation made by you or your agent;

   f. Failure to cooperate with us in the investigation of a claim;

   g. Failure to comply with Federal or State safety orders;

   h. Failure to comply with written recommendations of our designated loss control representatives;

   i. The occurrence of a material change in the ownership of your business;

   j. The occurrence of any change in your business or operations that materially increases the hazard for frequency or severity of loss;

   k. The occurrence of any change in your business or operation that requires additional or different classification for premium calculation;

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I. The occurrence of any change in your business or operation which contemplates an activity excluded by our reinsurance treaties.

3 If we cancel your policy for any of the reasons listed in (a) through (f), we will give you 10 days advance written notice, stating when the cancelation is to take effect. Mailing that notice to you at your mailing address shown in Item 1 of the Information Page will be sufficient to prove notice. If we cancel your policy for any of the reasons listed in Items (g) through (l), we will give you 30 days advance written notice; however, we agree that in the event of cancelation and reissuance of a policy effective upon a material change in ownership or operations, notice will not be provided.

4. The policy period will end on the day and hour stated in the cancelation notice.

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No action shall be taken against us with respect to Coverage A unless, as a condition precedent thereto, you shall have fully complied with all the terms of this Policy, and until the amount the **Responsible Entity** is legally obligated to pay shall have been finally determined either by judgment after actual contested trial or arbitration, or other method of dispute resolution for which we have given prior written approval.

No action shall be taken against us with respect to Coverage B, C, D or E unless, as a condition precedent thereto, you shall have fully complied with all the terms of this Policy, and until the amount you are legally obligated to pay shall have been finally determined either by judgment after actual contested trial or arbitration, or other method of dispute resolution for which we have given prior written approval.

No person or organization shall have any right under this Policy to join us in any action against you. No **Responsible Entity** shall be an **Insured** under this Policy.

F. Assignment of Interest

It is agreed that the insurance provided herein and your interests hereunder cannot be transferred or assigned to another party without our express written consent.

G. Cancellation and Termination

1. The premium paid for this Policy shall be fully earned in the first twelve months of the **Policy Period**.

2. This Policy may only be cancelled by us for one or more of the following reasons:

   a. non-payment of premium; or
   b. a material misrepresentation or concealment of facts; or
   c. a material breach of any provision of this Policy.

   If this Policy is cancelled by us, notice of cancellation will be sent in writing to you, at the address indicated on the Declarations. We will provide such written notice at least ninety (90) days prior to the date such cancellation is to take effect; except that, in the event of cancellation for non-payment of premium, we will provide only fifteen (15) days written notice. If the premium is paid by a premium financing company and the premium financing company, acting under a valid premium finance agreement with you, requests cancellation of the Policy due to non-payment of premium from you in the first twelve (12) months of the **Policy Period**, the earned premium shall be computed short-rate of the twelve-month earned policy term premium and returned to the premium finance company.

   The effective date and hour of cancellation will be stated in such notice. Cancellation by us also cancels the Automatic Extended Reporting Period and any Optional Extended Reporting Period; the **Policy Period**, the Automatic Extended Reporting Period, and any Optional Extended Reporting Period will end on that date. If we cancel for the reason specified in Subparagraph (a), there shall be no return premium. If we cancel for reasons stated in Subparagraphs (b) or (c) in the first twelve (12) months of the **Policy Period**, the earned premium shall be computed pro-rata of the twelve-month earned policy term premium. Payment of any return premium shall not be a condition of cancellation.

3. This Policy may be cancelled by the first **Named Insured** for any reason. In the event that the first **Named Insured** cancels the Policy, the earned premium shall be computed under the customary short rate table and procedure as a percentage of the total Policy premium stated in the Declarations, and we will return the earned premium to the first **Named Insured**. Cancellation by the first Named Insured shall also cancel the Automatic Extended Reporting Period and any Optional Extended Reporting Period on the date of cancellation.

4. Notwithstanding the foregoing, if you report a **Claim** or **First Party Claim** to us prior to the

NLIMON

EVIDENCE OF PROPERTY INSURANCE

DATE (MM/DD/YYYY): 10/14/2019

THIS EVIDENCE OF PROPERTY INSURANCE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE ADDITIONAL INTEREST NAMED BELOW. THIS EVIDENCE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS EVIDENCE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE ADDITIONAL INTEREST.

AGENCY
Fresno CSG-Alliant Insurance Services, Inc.
9 E River Park Place East Ste 310
Fresno, CA 93720

PHONE (A/C, No, Ext): (559) 374-3560
FAX (A/C, No):
E-MAIL ADDRESS:
CODE:
SUB CODE:
AGENCY CUSTOMER ID #: LYLEDIR-01

COMPANY
Allianz Global Risks US Insurance Company
2350 Empire Avenue
Burbank, CA 91504

INSURED
W.M. Lyles Co
P.O. Box 4377
Fresno, CA 93744

LOAN NUMBER:
POLICY NUMBER: USE000243180015 / ENDT 13
EFFECTIVE DATE: 2/28/2020
EXPIRATION DATE: 1/28/2023
☐ CONTINUED UNTIL TERMINATED IF CHECKED
THIS REPLACES PRIOR EVIDENCE DATED:

PROPERTY INFORMATION

LOCATION/DESCRIPTION

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS EVIDENCE OF PROPERTY INSURANCE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

COVERAGE INFORMATION

PERILS INSURED: ☐ BASIC ☐ BROAD ☐ SPECIAL

COVERAGE / PERILS / FORMS	AMOUNT OF INSURANCE	DEDUCTIBLE
Builders Risk AOP Limit	$54,400,000	25,000
Flood Limit	$54,400,000	100,000
Soft Costs	$750,000	

REMARKS (Including Special Conditions)

Special Conditions:
Re: Design-Assist and Construction of Pleasant Grove Wastewater Treatment Plant Expansion Project, 5051 Westpark Dr. Roseville, CA 95747.

City of Roseville, Construction Manager, Funding Agencies and their directors, elected officials, officers, officials, employees, agents, consultants and volunteers are included as Additional Insureds & loss payee as their interests may appear.

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

ADDITIONAL INTEREST

NAME AND ADDRESS

City of Roseville
311 Vernon Street
Roseville, CA 95678

☒ ADDITIONAL INSURED ☐ LENDER'S LOSS PAYABLE ☒ LOSS PAYEE
☐ MORTGAGEE

LOAN #

AUTHORIZED REPRESENTATIVE
Nicolette Limon

ACORD 27 (2016/03)

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EXHIBIT L
CONTRACTOR INSURANCE CERTIFICATES

RESOLUTION NO. 19-474

APPROVING AN AGREEMENT FOR THE DESIGN-ASSIST AND CONSTRUCTION OF THE PLEASANT GROVE WASTEWATER TREATMENT PLANT EXPANSION PROJECT, BY AND BETWEEN W.M. LYLES CO. AND THE CITY OF ROSEVILLE, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, an agreement for the design-assist and construction of the Pleasant Grove Wastewater Treatment Plant Expansion project, by and between W.M. Lyles Co. and the City of Roseville, has been reviewed by the City Council; and

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

BE IT FURTHER RESOLVED that the Environmental Utilities Director 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 five percent (5%) of the contract price.

PASSED AND ADOPTED by the Council of the City of Roseville this 6th day of November, 2019, by the following vote on roll call:

AYES COUNCILMEMBERS: Bernasconi, Alvord, Roccucci, Houdesheldt, Allard

NOES COUNCILMEMBERS: None

ABSENT COUNCILMEMBERS: None

MAYOR

ATTEST:

City Clerk

The foregoing instrument is a correct copy of the original on file in the City Clerks Department.

ATTEST: _____
City Clerk of the City of Roseville, California

DEPUTY CLERK

COUNCIL COMMUNICATION

CC #: 2260
File #: 0900-02-02-2

Title:	Pleasant Grove Wastewater Treatment Plant Expansion Project - Installment Sale Agreement Amendment
Contact:	Tracie Mueller 916-774-5688 trmueller@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.9.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council adopt a resolution authorizing the City Manager to execute the Clean Water State Revolving Fund (CWSRF) Installment Sale Agreement Amendment 2 for the low interest loan (1.3 percent) of $78,347,000 from the California State Water Resources Control Board (SWRCB) for the Pleasant Grove Wastewater Treatment Plant Expansion Project.

BACKGROUND

The Pleasant Grove Wastewater Treatment Plant (PGWWTP) Expansion Project involves the addition of primary clarifiers, solids thickening equipment, and anaerobic digesters. The plant expansion will increase the PGWWTP's treatment capacity from 9.5 to 12 million gallons per day and is expected to provide sufficient capacity to accommodate growth within the South Placer Wastewater Authority (SPWA) service area through 2035.

Construction of this project has already begun. The Expansion Project construction is behind the scheduled completion in June 2022; therefore an amendment to the City's CWSRF Installment Sale Agreement for the low interest loan (1.3 percent) of $78,347,000 from the SWRCB is required. The CWSRF Installment Sale Agreement Amendment 2 extends the construction date from June 10, 2022, to July 3, 2023. Based on the current status of the construction projects at the PGWWTP, it is anticipated that the Expansion Project will be completed by July 3, 2023.

FISCAL IMPACT

The adoption of the CWSRF Installment Sale Agreement Amendment 2 initiates the financial commitments to repay the loans and repayment will be based on the amount of the loan used, which has not been revised in the amendment. The Debt Service Agreement between the City and SPWA will allow all CWSRF loan repayment costs made by the City to be fully reimbursed by the SPWA agency partners; therefore resulting in no direct fiscal impact to the City.

The CWSRF interest rate of 1.3 percent is the lowest available financing option evaluated for

SPWA to fund these projects.

ENVIRONMENTAL REVIEW

Implementation of the PGWWTP Expansion Project was previously evaluated in the Pleasant Grove Wastewater Treatment Plant Expansion and Energy Recovery Project Final Initial Study/Mitigated Negative Declaration (IS/MND) (SCH# 2016122040) (certified by the City Council on April 6, 2017), and the Addendum to the IS/MND (SCH# 2016122040) (certified by the City Council on November 7, 2018). The improvement plans included in the design-assist and construction agreement are consistent with the project evaluated in the certified Final IS/MND and the Addendum, and consequently no additional CEQA action is required for approval of this amended CWSRF agreement.

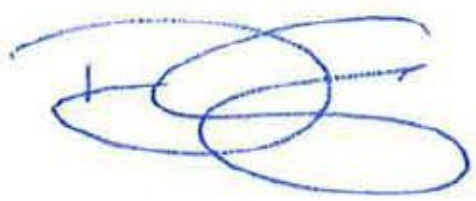
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Tracie Mueller, Senior Engineer

Richard Plecker, Environmental Utilities Director



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 22-323

Amendment 2

RESOLUTION NO. 22-323

APPROVING AMENDMENT NO. 2 TO THE INSTALLMENT SALE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND CALIFORNIA STATE WATER RESOURCES CONTROL BOARD, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, Amendment No. 2 to the Installment Sale Agreement for the Pleasant Grove Wastewater Treatment Plant Expansion project, by and between the City of Roseville and California State Water Resources Control Board, has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said Amendment is hereby 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 _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

State Water Resources Control Board

June 15, 2022

City of Roseville
Attn: Dominick Casey, City Manager
311 Vernon Street
Roseville, CA 95678

Agreement Number: D1901013
Project Number: C-06-8215-110

Enclosed is your amended Funding Agreement for your approval and signature. This Agreement cannot be considered binding by either party until executed by the State Water Resources Control Board ("State Water Board").

If in agreement with all terms and conditions of the Agreement, please have the Authorized Representative, as noted in the executed resolution, sign and return two (2) signature pages **no later than thirty (30) calendar days from the date of this letter to:**

US Mail
Koreenia Harmon
State Water Resources Control Board
Division of Financial Assistance
P.O. Box 944212
Sacramento, CA 94244-2120

Overnight Mail
Koreenia Harmon
State Water Resources Control Board
Division of Financial Assistance
1001 I Street, 16th Floor
Sacramento, CA 95814

Ms. Harmon may be contacted at (916) 319-0807 or Koreenia.Harmon@waterboards.ca.gov

Once the Agreement is signed by both parties, we will forward an executed copy to you for your entity's records.

Enclosures

Clean Water
State Revolving Fund

CITY OF ROSEVILLE

AND

CALIFORNIA STATE WATER RESOURCES CONTROL BOARD

CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

INSTALLMENT SALE AGREEMENT

PLEASANT GROVE WASTEWATER TREATMENT PLANT EXPANSION PROJECT

PROJECT NO. C-06-8215-110

AGREEMENT NO. SWRCB0000000000D1901013

AMOUNT: $78,347,000

AMENDMENT NO. 2
ELIGIBLE START DATE: MAY 3, 2019
COMPLETION OF CONSTRUCTION DATE: ~~JUNE 10, 2022~~**JULY 3, 2023**
FINAL DISBURSEMENT REQUEST DATE: ~~DECEMBER 10, 2022~~**JANUARY 3, 2024**
FINAL REPAYMENT DATE: ~~JUNE 10, 2052~~**JULY 3, 2053**
RECORDS RETENTION END DATE: ~~JUNE 10, 2058~~ **JULY 3, 2059**

This Agreement executed by the State Water Board on June 11, 2020, **and subsequently amended on May 10, 2021** is hereby amended and restated to **revise construction completion date, final disbursement date, final repayment date, records retention date, and to make several other revisions throughout the Agreement,** Exhibit A, Exhibit B**, Exhibit D,** and Payment Schedule in Exhibit C (deletions shown as stricken and revisions in bold and underlined). Except as noted herein all other terms and conditions shall remain the same. Please note, page numbers may have changed.

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WHEREAS,

1. The State Water Board is authorized to provide financial assistance under this Agreement pursuant to the following:

   - Chapter 6.5 of Division 7 of the California Water Code (State Act)

   - Title VI of the federal Water Pollution Control Act (Federal Act)

2. The State Water Board determines eligibility for financial assistance, determines a reasonable schedule for providing financial assistance, establishes compliance with the Federal Act and State Act, and establishes the terms and conditions of a financial assistance agreement.

3. The Recipient has applied to the State Water Board for financial assistance for the Project described in Exhibit A of this Agreement and the State Water Board has selected the application for financial assistance.

4. The State Water Board proposes to assist in providing financial assistance for eligible costs of the Project, and the Recipient desires to participate as a recipient of financial assistance from the State Water Board and evidence its obligation to pay Installment Payments, which obligation will be secured by Net Revenues as defined herein, upon the terms and conditions set forth in this Agreement, all pursuant to the Federal Act and the State Act.

NOW, THEREFORE, in consideration of the mutual representations, covenants and agreements herein set forth, the State Water Board and the Recipient, each binding itself, its successors and assigns, do mutually promise, covenant, and agree as follows:

Subject to the satisfaction of any conditions precedent to this Agreement, this Agreement shall become effective upon the signature of both the Recipient and the State Water Board.

Upon execution, the term of the Agreement shall begin on the Eligible Start Date and extend through the Final Repayment Date.

This Agreement, and any amendments hereto, may be executed and delivered in any number of counterparts, each of which when delivered shall be deemed to be an original, but such counterparts shall together constitute one document. The parties may sign this Agreement, and any amendments hereto, either by an electronic signature using a method approved by the State Water Board or by a physical, handwritten signature. The parties mutually agree that an electronic signature using a method approved by the State Water Board is the same as a physical, handwritten signature for the purposes of validity, enforceability, and admissibility.

ARTICLE I DEFINITIONS

1.1 Definitions.

Unless otherwise specified, each capitalized term used in this Agreement has the following meaning:

"Additional Payments" means the Additional Payments described in Section 3.2(c) of this Agreement.

"Agreement" means this Installment Sale Agreement, including all exhibits and attachments.

"Allowance" means an amount based on a percentage of the accepted bid for an eligible project to help defray the planning, design, and construction engineering and administration costs of the Project.

"Authorized Representative" means the duly appointed representative of the Recipient as set forth in the certified original of the Recipient's authorizing resolution that designates the authorized representative by title.

"Bank" means the California Infrastructure and Economic Development Bank.

"Bond Funded Portion of the Project Funds" means any portion of the Project Funds which was or will be funded with Bond Proceeds.

"Bond Proceeds" means original proceeds, investment proceeds, and replacement proceeds of Bonds.

"Bonds" means any series of bonds issued by the Bank, the interest on which is excluded from gross income for federal tax purposes, all or a portion of the proceeds of which have been, are, or will be applied by the State Water Board to fund all or any portion of the Project Costs or that are secured in whole or in part by Installment Payments paid hereunder.

"Charge In Lieu of Interest" means any fee or charge in lieu of some or all of, but not to exceed, the interest that would otherwise be owed under this Agreement, as set forth in Exhibit C.

"Code" as used in Article V of this Agreement means the Internal Revenue Code of 1986, as amended, and any successor provisions and the regulations of the U.S. Department of the Treasury promulgated thereunder.

"Completion of Construction" means the date, as determined by the Division after consultation with the Recipient, that the work of building and erection of the Project is substantially complete, and is identified in Exhibit A of this Agreement.

"CWSRF" means the Clean Water State Revolving Fund.

"Days" means calendar days unless otherwise expressly indicated.

"Debt Service" means, as of any date, with respect to outstanding System Obligations and, in the case of the additional debt tests in Section 3.7 of this Agreement, any System Obligations that are proposed to be outstanding, the aggregate amount of principal and interest scheduled to become due (either at maturity or by mandatory redemption), together with any Charge In Lieu of Interest on this Obligation or other System Obligations to the State Water Board, calculated with the following assumptions:

a. Principal payments (unless a different subdivision of this definition applies for purposes of determining principal maturities or amortization) are made in accordance with any amortization schedule published for such principal, including any minimum sinking fund payments;

b. Interest on a variable rate System Obligation that is not subject to a swap agreement and that is issued or will be issued as a tax-exempt obligation under federal law, is the average of the SIFMA Municipal Swap Index, or its successor index, during the 24 months preceding the date of such calculation;

c. Interest on a variable rate System Obligation that is not subject to a swap agreement and that is issued or will be issued as a taxable obligation under federal law, is the average of LIBOR, or its successor index, during the 24 months preceding the date of such calculation;

d. Interest on a variable rate System Obligation that is subject to a swap agreement is the fixed swap rate or cap strike rate, as appropriate, if the variable rate has been swapped to a fixed rate or capped pursuant to an interest rate cap agreement or similar agreement;

e. Interest on a fixed rate System Obligation that is subject to a swap agreement such that all or a portion of the interest has been swapped to a variable rate shall be treated as variable rate debt under subdivisions (b) or (c) of this definition of Debt Service;

f. Payments of principal and interest on a System Obligation are excluded from the calculation of Debt Service to the extent such payments are to be paid from amounts then currently on deposit with a trustee or other fiduciary and restricted for the defeasance of such System Obligations;

g. If 25% or more of the principal of a System Obligation is not due until its final stated maturity, then principal and interest on that System Obligation may be projected to amortize over the lesser of 30 years or the useful life of the financed asset, and interest may be calculated according to subdivisions (b)-(e) of this definition of Debt Service, as appropriate.

“Deputy Director” means the Deputy Director of the Division.

"Division" means the Division of Financial Assistance of the State Water Board or any other segment of the State Water Board authorized to administer this Agreement.

“Eligible Start Date” means the date set forth in Exhibit B, establishing the date on or after which construction costs may be incurred and eligible for reimbursement hereunder.

“Enterprise Fund” means the enterprise fund of the Recipient in which Revenues are deposited.

“Event of Default” means the occurrence of any of the following events:

a) Failure by the Recipient to pay Installment Payments when due, or failure to make any other payment required to be paid pursuant to this Agreement;
b) A representation or warranty made by or on behalf of the Recipient in this Agreement or in any document furnished by or on behalf of the Recipient to the State Water Board pursuant to this Agreement shall prove to have been inaccurate, misleading or incomplete in any material respect;
c) A material adverse change in the condition of the Recipient, the Revenues, or the System, which the Division reasonably determines would materially impair the Recipient’s ability to satisfy its obligations under this Agreement.
d) Failure by the Recipient to comply with the additional debt test or reserve fund requirement, if any, in Section 3.7 or Exhibit D of this Agreement;
e) Failure to operate the System or the Project without the Division’s approval;
f) Failure by the Recipient to observe and perform any covenant, condition, or provision in this Agreement, which failure shall continue for a period of time, to be determined by the Division;
g) The occurrence of a material breach or event of default under any System Obligation that results in the acceleration of principal or interest or otherwise requires immediate prepayment, repurchase or redemption;
h) Initiation of proceedings seeking arrangement, reorganization, or any other relief under any applicable bankruptcy, insolvency, or other similar law; the appointment of or taking possession of the Recipient’s property by a receiver, liquidator, assignee, trustee, custodian, conservator, or similar official; the Recipient’s entering into a general assignment for the benefit of creditors; the

initiation of resolutions or proceedings to terminate the Recipient's existence, or any action in furtherance of any of the foregoing;

i) A determination pursuant to Gov. Code section 11137 that the Recipient has violated any provision in Article 9.5 of Chapter 1 of Part 1 of Division 3 of Title 2 of the Government Code;

"Final Disbursement Request Date" means the date established in Exhibit A, after which date, no further Project Funds disbursements may be requested.

"Final Repayment Date" is the date by which all principal and accrued interest due under this Agreement is to be paid in full to the State Water Board and is specified in Exhibit B and Exhibit C.

"Fiscal Year" means the period of twelve (12) months terminating on June 30 of any year, or any other annual period selected and designated by the Recipient as its Fiscal Year in accordance with applicable law.

"Force Account" means the use of the Recipient's own employees or equipment.

"GAAP" means generally accepted accounting principles, the uniform accounting and reporting procedures set forth in publications of the American Institute of Certified Public Accountants or its successor, or by any other generally accepted authority on such procedures, and includes, as applicable, the standards set forth by the Governmental Accounting Standards Board or its successor.

"Indirect Costs" means those costs that are incurred for a common or joint purpose benefiting more than one cost objective and are not readily assignable to the Project (i.e., costs that are not directly related to the Project). Examples of Indirect Costs include, but are not limited to: central service costs; general administration of the Recipient; non-project-specific accounting and personnel services performed within the Recipient organization; depreciation or use allowances on buildings and equipment; the costs of operating and maintaining non-project-specific facilities; tuition and conference fees; generic overhead or markup; and taxes.

"Initiation of Construction" means the date that notice to proceed with work is issued for the Project, or, if notice to proceed is not required, the date of commencement of building and erection of the Project.

"Installment Payment" means any payment due to the State Water Board from the Recipient pursuant to Section 3.2 of this Agreement, as set forth in Exhibit C.

"Listed Event" means, so long as the Recipient has outstanding any System Obligation subject to Rule 15c2-12, any of the events required to be reported pursuant to Rule 15c2-12(b)(5).

"Maximum Annual Debt Service" means the maximum amount of Debt Service due on System Obligations in any Fiscal Year during the period commencing with the Fiscal Year for which such calculation is made and terminating with the last Fiscal Year in which Debt Service for any System Obligations will become due.

"Net Revenues" means, for any Fiscal Year, all Revenues received by the Recipient less the Operations and Maintenance Costs for such Fiscal Year.

"Obligation" means the obligation of the Recipient to make Installment Payments and Additional Payments as provided herein, as evidenced by the execution of this Agreement, proceeds of such obligations being used to fund the Project as specified in the Project Description in Exhibit A and Exhibit A-FBA and in the documents thereby incorporated by reference.

"Operations and Maintenance Costs" means the reasonable and necessary costs paid or incurred by the Recipient for maintaining and operating the System, determined in accordance with GAAP, including all reasonable expenses of management and repair and all other expenses necessary to maintain and preserve the System in good repair and working order, and including all reasonable and necessary administrative costs of the Recipient that are charged directly or apportioned to the operation of the System, such as salaries and wages of employees, overhead, taxes (if any), the cost of permits, licenses, and charges to operate the System and insurance premiums; but excluding, in all cases depreciation, replacement, and obsolescence charges or reserves therefor and amortization of intangibles.

“Other Material Obligation” means an obligation of the Recipient set forth in Exhibit F that is not payable from Net Revenues, but is otherwise material to this transaction.

"Policy" means the State Water Board's “Policy for Implementing the Clean Water State Revolving Fund,” as amended from time to time, and including the Intended Use Plan in effect as of the Eligible Start Date.

“Project” means the Project financed by this Agreement as described in Exhibit A, Exhibit A-FBA, and in the documents incorporated by reference herein.

"Project Completion" means the date, as determined by the Division after consultation with the Recipient, that operation of the Project is initiated or is capable of being initiated, whichever comes first.

"Project Costs" means the incurred costs of the Recipient which are eligible for financial assistance under this Agreement, which are allowable costs as defined under the Policy, and which are reasonable, necessary and allocable by the Recipient to the Project under GAAP, plus capitalized interest.

“Project Funds” means all moneys disbursed to the Recipient by the State Water Board pursuant to this Agreement.

“Recipient” means the City of Roseville.

“Records Retention End Date” means the last date that the Recipient is obligated to maintain records pursuant to Section 2.17 of this Agreement.

“Regional Water Quality Control Board” or “Regional Water Board” means the appropriate Regional Water Quality Control Board.

“Reimbursement Resolution” means the Recipient’s reimbursement resolution identified in Exhibit A of this Agreement.

“Reserve Fund” means the reserve fund required pursuant to Section 3.7 of this Agreement.

"Revenues" means, for each Fiscal Year, all gross income and revenue received or receivable by the Recipient from the ownership or operation of the System, determined in accordance with GAAP, including all rates, fees, and charges (including connection fees and charges) as received by the Recipient for the services of the System, and all other income and revenue howsoever derived by the Recipient from the ownership or operation of the System or arising from the System, including all income from the deposit or investment of any money in the Enterprise Fund or any rate stabilization fund of the Recipient or held on the Recipient’s behalf, and any refundable deposits made to establish credit, and advances or contributions in aid of construction.

“Rule 15c2-12(b)(5)” means Rule 15c2-12(b)(5) promulgated by the Securities and Exchange Commission pursuant to the Securities Exchange Act of 1934, as amended.

“SRF” means the Clean Water State Revolving Fund.

“State” means State of California.

“State Water Board” means the State Water Resources Control Board.

"System" means all wastewater collection, pumping, transport, treatment, storage, and disposal facilities, including land and easements thereof, owned by the Recipient, including the Project, and all other properties, structures, or works hereafter acquired and constructed by the Recipient and determined to be a part of the System, together with all additions, betterments, extensions, or improvements to such facilities, properties, structures, or works, or any part thereof hereafter acquired and constructed.

“System Obligation” means any obligation of the Recipient payable from the Revenues, including but not limited to this Obligation and obligations reflected in Exhibit F and such additional obligations as may hereafter be issued in accordance with the provisions of such obligations and this Agreement.

“Year” means calendar year unless otherwise expressly indicated.

1.2 Exhibits Incorporated.

All exhibits to this Agreement, including any amendments and supplements hereto, are hereby incorporated herein and made a part of this Agreement.

ARTICLE II REPRESENTATIONS, WARRANTIES, AND COMMITMENTS

The Recipient represents, warrants, and commits to the following as of the Eligible Start Date set forth on the first page hereof and continuing thereafter for the term of this Agreement.

2.1 Application and General Recipient Commitments.

The Recipient has not made any untrue statement of a material fact in its application for this financial assistance, or omitted to state in its application a material fact that makes the statements in its application not misleading.

The Recipient shall comply with all terms, provisions, conditions, and commitments of this Agreement, including all incorporated documents, and shall fulfill all assurances, declarations, representations, and commitments in its application, accompanying documents, and communications filed in support of its request for financial assistance.

2.2 Authorization and Validity.

The execution and delivery of this Agreement, including all incorporated documents, has been duly authorized by the Recipient. Upon execution by both parties, this Agreement constitutes a valid and binding obligation of the Recipient, enforceable in accordance with its terms, except as such enforcement may be limited by law.

2.3 No Violations.

The execution, delivery, and performance by Recipient of this Agreement, including all incorporated documents, do not violate any provision of any law or regulation in effect as of the date set forth on the first page hereof, or result in any breach or default under any contract, obligation, indenture, or other instrument to which Recipient is a party or by which Recipient is bound as of the date set forth on the first page hereof.

2.4 No Litigation.

There are no pending or, to Recipient's knowledge, threatened actions, claims, investigations, suits, or proceedings before any governmental authority, court, or administrative agency which materially affect the financial condition or operations of the Recipient, the System, the Revenues, and/or the Project.

2.5 Solvency and Insurance.

None of the transactions contemplated by this Agreement will be or have been made with an actual intent to hinder, delay, or defraud any present or future creditors of Recipient. As of the date set forth on the first page hereof, Recipient is solvent and will not be rendered insolvent by the transactions contemplated by this Agreement. Recipient is able to pay its debts as they become due. Recipient maintains sufficient insurance coverage considering the scope of this Agreement, including, for example but not necessarily limited to, general liability, automobile liability, workers compensation and employers liability, professional liability.

2.6 Legal Status and Eligibility.

Recipient is duly organized and existing and in good standing under the laws of the State of California. Recipient shall at all times maintain its current legal existence and preserve and keep in full force and effect its legal rights and authority. Recipient shall maintain its eligibility for funding under this Agreement.

2.7 Financial Statements and Continuing Disclosure.

The financial statements of Recipient previously delivered to the State Water Board as of the date(s) set forth in such financial statements: (a) are materially complete and correct; (b) present fairly the financial condition of the Recipient; and (c) have been prepared in accordance with GAAP. Since the date(s) of such financial statements, there has been no material adverse change in the financial condition of the Recipient, nor have any assets or properties reflected on such financial statements been sold, transferred, assigned, mortgaged, pledged or encumbered, except as previously disclosed in writing by Recipient and approved in writing by the State Water Board.

The Recipient is current in its continuing disclosure obligations associated with its material debt.

2.8 Completion of Project.

The Recipient shall expeditiously proceed with and complete construction of the Project in substantial accordance with Exhibit A and Exhibit A-FBA.

2.9 Award of Construction Contracts.

(a) The Recipient shall award the prime construction contract timely in order to meet the start of construction date specified in Exhibit A.

(b) The Recipient shall promptly notify the Division in writing both of the award of the prime construction contract for the Project and of Initiation of Construction of the Project. The Recipient shall make all reasonable efforts to complete construction in substantial conformance with the terms of the contract by the Completion of Construction date established in Exhibit A.

2.10 Notice.

Upon the occurrence of any of the following events, the Recipient shall notify the Deputy Director and the Division's project manager within the time specified below.

(1) The Recipient shall notify the Division within 24 hours of any discovery of any potential tribal cultural resource and/or archaeological or historical resource. In addition to notifying the Deputy Director and the Division's project manager, notice shall be delivered by phone to (916) 327-9978 and by email to CleanWaterSRF@waterboards.ca.gov. Should a potential tribal cultural resource and/or archaeological or historical resource be discovered during construction, the Recipient shall ensure that all work in the area of the find will cease until a qualified archaeologist has evaluated the situation and made recommendations regarding preservation of the resource, and the Division has determined what actions should be taken to protect and preserve the resource. The Recipient shall implement appropriate actions as directed by the Division.

(2) The Recipient shall notify the Division within five (5) business days of the occurrence of any of the following events:

(a) Bankruptcy, insolvency, receivership or similar event of the Recipient, or actions taken in anticipation of any of the foregoing;
(b) Change of ownership of the System or change of management or service contracts, if any, for operation of the System;
(c) Loss, theft, damage, or impairment to the Revenues or the System;
(d) Failure to meet any debt service coverage test in section 3.7 of this agreement;
(e) Draws on the Reserve Fund;
(f) Listed Events or Events of Default, except as set forth in subdivisions (b) or (c) of this section;
(g) Failure to observe or perform any covenant in this Agreement.

(3) The Recipient shall notify the Division in writing within ten (10) business days of the following events:

(a) Material defaults on System Obligations, other than this Obligation;
(b) Unscheduled draws on debt service reserves held for System Obligations, other than this Obligation, if any, reflecting financial difficulties;
(c) Unscheduled draws on credit enhancements on System Obligations, if any, reflecting financial difficulties;
(d) Substitution of credit or liquidity providers, if any or their failure to perform;
(e) Any litigation pending or threatened with respect to the Project or the Recipient's technical, managerial or financial capacity to operate the System or the Recipient's continued existence, circulation of a petition to repeal, reduce, or otherwise challenge the Recipient's rates for services of the System, consideration of dissolution, or disincorporation, or any other event that could materially impair the Revenues;
(f) Adverse tax opinions, the issuance by the Internal Revenue Service or proposed or final determinations of taxability, Notices of Proposed Issue (IRS Form 5701-TEB) or other material notices of determinations with respect to the tax status of any tax-exempt bonds;
(g) Rating changes on outstanding System Obligations, if any;
(h) Issuance of additional parity obligations; or
(i) Enforcement actions by the Regional Water Board;

(4) The Recipient shall notify the Division promptly of the following:

(a) The discovery of a false statement of fact or representation made in this Agreement or in the application to the Division for this financial assistance, or in any certification, report, or request for disbursement made pursuant to this Agreement, by the Recipient, its employees, agents, or contractors;
(b) Any substantial change in scope of the Project. The Recipient shall undertake no substantial change in the scope of the Project until prompt written notice of the proposed

change has been provided to the Division and the Division has given written approval for the change;

(c) Cessation of all major construction work on the Project where such cessation of work is expected to or does extend for a period of thirty (30) days or more;

(d) Any circumstance, combination of circumstances, or condition, which is expected to or does delay Completion of Construction for a period of ninety (90) days or more beyond the estimated date of Completion of Construction as specified in Exhibit A;

(e) Discovery of any unexpected endangered or threatened species, as defined in the federal Endangered Species Act. Should a federally protected species be unexpectedly encountered during construction of the Project, the Recipient agrees to promptly notify the Division. This notification is in addition to the Recipient's obligations under the federal Endangered Species Act;

(f) Any Project monitoring, demonstration, or other implementation activities required in Exhibit A or Exhibit D of this Agreement, if any;

(g) Any public or media event publicizing the accomplishments and/or results of this Agreement and provide the opportunity for attendance and participation by state representatives with at least ten (10) working days' notice to the Division;

(h) Any events requiring notice to the Division pursuant to the provisions of Exhibit E to this Agreement; or

(i) Completion of Construction of the Project, and actual Project Completion.

2.11 Findings and Challenge.

Upon consideration of a voter initiative to reduce Revenues, the Recipient shall make a finding regarding the effect of such a reduction on the Recipient's ability to satisfy the rate covenant set forth in Section 3.7 of this Agreement. The Recipient shall make its findings available to the public and shall request, if necessary, the authorization of the Recipient's decision-maker or decision-making body to file litigation to challenge any such initiative that it finds will render it unable to satisfy the rate covenant set forth in Section 3.7 and its obligation to operate and maintain the Project for its useful life. The Recipient shall diligently pursue and bear any and all costs related to such challenge. The Recipient shall notify and regularly update the State Water Board regarding the status of any such challenge.

2.12 Project Access.

The Recipient shall ensure that the State Water Board, the Governor of the State, the United States Environmental Protection Agency, the Office of Inspector General, any member of Congress, or any authorized representative of the foregoing, will have safe and suitable access to the Project site at all reasonable times during Project construction and thereafter for the term of the Obligation. The Recipient acknowledges that, except for a subset of information regarding archaeological records, the Project records and locations are public records, including but not limited to all of the submissions accompanying the application, all of the documents incorporated by Exhibit A and Exhibit A-FBA, and all reports, disbursement requests, and supporting documentation submitted hereunder.

2.13 Project Completion; Initiation of Operations.

Upon Completion of Construction of the Project, the Recipient shall expeditiously initiate Project operations.

2.14 Continuous Use of Project; Lease, Sale, Transfer of Ownership, or Disposal of Project.

The Recipient agrees that, except as provided in this Agreement, it will not abandon, substantially discontinue use of, lease, sell, transfer ownership of, or dispose of all or a significant part or portion of the Project during the useful life of the Project without prior written approval of the Division. Such approval

may be conditioned as determined to be appropriate by the Division, including a condition requiring repayment of all disbursed Project Funds or all or any portion of all remaining funds covered by this Agreement together with accrued interest and any penalty assessments that may be due.

2.15 Project Reports.

(a) Status Reports. The Recipient shall provide expeditiously status reports no less frequently than quarterly, starting with the execution of this Agreement. A status report must accompany any disbursement request and is a condition precedent to any disbursement. At a minimum the reports will contain the following information:

(1) A summary of progress to date including a description of progress since the last report, percent construction complete, percent contractor invoiced, and percent schedule elapsed;

(2) A description of compliance with environmental requirements;

(3) A listing of change orders including amount, description of work, and change in contract amount and schedule; and

(4) Any problems encountered, proposed resolution, schedule for resolution, and status of previous problem resolutions.

(b) Project Completion Report. The Recipient shall submit a Project Completion Report to the Division with a copy to the appropriate Regional Water Board on or before the due date established by the Division and the Recipient at the time of final project inspection. The Project Completion Report must address the following:

(1) Describe the Project,

(2) Describe the water quality problem the Project sought to address,

(3) Discuss the Project's likelihood of successfully addressing that water quality problem in the future, and

(4) Summarize compliance with environmental conditions, if applicable.

If the Recipient fails to submit a timely Project Completion Report, the State Water Board may stop processing pending or future applications for new financial assistance, withhold disbursements under this Agreement or other agreements, and begin administrative proceedings.

(c) As Needed Reports. The Recipient shall provide expeditiously, during the term of this Agreement, any reports, data, and information reasonably required by the Division, including but not limited to material necessary or appropriate for evaluation of the funding program or to fulfill any reporting requirements of the state or federal government.

2.16 Federal Disadvantaged Business Enterprise (DBE) Reporting.

The Recipient shall report DBE utilization to the Division on the DBE Utilization Report, State Water Board Form DBE UR334. The Recipient must submit such reports to the Division annually within ten (10) calendar days following October 1 until such time as the "Notice of Completion" is issued. The Recipient shall comply with 40 CFR § 33.301.

2.17 Records.

(a) Without limitation of the requirement to maintain Project accounts in accordance with GAAP, the Recipient shall:

(1) Establish an official file for the Project which adequately documents all significant actions relative to the Project;

(2) Establish separate accounts which will adequately and accurately depict all amounts received and expended on the Project, including all assistance funds received under this Agreement;

(3) Establish separate accounts which will adequately depict all income received which is attributable to the Project, specifically including any income attributable to assistance funds disbursed under this Agreement;

(4) Establish an accounting system which will accurately depict final total costs of the Project, including both direct and indirect costs;

(5) Establish such accounts and maintain such records as may be necessary for the State to fulfill federal reporting requirements, including any and all reporting requirements under federal tax statutes or regulations; and

(6) If Force Account is used by the Recipient for any phase of the Project, other than for planning, design, and construction engineering and administration provided for by allowance, accounts will be established which reasonably document all employee hours charged to the Project and the associated tasks performed by each employee. Indirect Force Account costs are not eligible for funding.

(b) The Recipient shall maintain separate books, records and other material relative to the Project. The Recipient shall also retain such books, records, and other material for itself and for each contractor or subcontractor who performed or performs work on this project for a minimum of thirty-six (36) years after Completion of Construction. The Recipient shall require that such books, records, and other material are subject at all reasonable times (at a minimum during normal business hours) to inspection, copying, and audit by the State Water Board, the California State Auditor, the Bureau of State Audits, the United States Environmental Protection Agency (USEPA), the Office of Inspector General, the Internal Revenue Service, the Governor, or any authorized representatives of the aforementioned. The Recipient shall allow and shall require its contractors to allow interviews during normal business hours of any employees who might reasonably have information related to such records. The Recipient agrees to include a similar duty regarding audit, interviews, and records retention in any contract or subcontract related to the performance of this Agreement. The provisions of this section shall survive the discharge of the Recipient's Obligation and the term of this Agreement.

2.18 Audit.

(a) The Division may call for an audit of financial information relative to the Project if the Division determines that an audit is desirable to assure program integrity or if an audit becomes necessary because of state or federal requirements. If an audit is called for, the audit shall be performed by a certified public accountant independent of the Recipient and at the cost of the Recipient. The audit shall be in the form required by the Division

(b) Audit disallowances will be returned to the State Water Board.

ARTICLE III FINANCING PROVISIONS

3.1 Purchase and Sale of Project.

The Recipient hereby sells to the State Water Board and the State Water Board hereby purchases from the Recipient the Project. Simultaneously therewith, the Recipient hereby purchases from the State Water Board, and the State Water Board hereby sells to the Recipient, the Project in accordance with the provisions of this Agreement. All right, title, and interest in the Project shall immediately vest in the Recipient on the date of execution and delivery of this Agreement by both parties without further action on the part of the Recipient or the State Water Board. The State Water Board's disbursement of funds hereunder is contingent on the Recipient's compliance with the terms and conditions of this Agreement.

3.2 Amounts Payable by the Recipient.

(a) Installment Payments. Interest will accrue beginning with each disbursement. Beginning one year after Completion of Construction, repayment of the principal of the Project Funds, together with all interest accruing thereon, shall be repaid annually, and shall be fully amortized by the Final Repayment Date.

The Installment Payments are based on a standard fully amortized assistance amount with equal annual payments. The remaining balance is the previous balance, plus the disbursements, plus the accrued interest on both, plus any Charge In Lieu of Interest, less the Installment Payment. Installment Payment calculations will be made beginning one (1) year after Completion of Construction. Exhibit C is a payment schedule based on the provisions of this article and an estimated disbursement schedule. Actual payments will be based on actual disbursements.

Upon Completion of Construction and submission of necessary reports by the Recipient, the Division will prepare an appropriate payment schedule and supply the same to the Recipient. The Division may amend this schedule as necessary to accurately reflect amounts due under this Agreement. The Division will prepare any necessary amendments to the payment schedule and send them to the Recipient.

The Recipient shall make each Installment Payment on or before the due date therefor. A ten (10) day grace period will be allowed, after which time a penalty in the amount of costs incurred by the State Water Board will be assessed for late payment. These costs may include, but are not limited to, lost interest earnings, staff time, bond debt service default penalties, if any, and other related costs. For purposes of penalty assessment, payment will be deemed to have been made if payment is deposited in the U.S. Mail within the grace period with postage prepaid and properly addressed. Any penalties assessed will not be added to the assistance amount balance, but will be treated as a separate account and obligation of the Recipient. The interest penalty will be assessed from the payment due date.

The Recipient is obligated to make all payments required by this Agreement to the State Water Board, notwithstanding any individual default by its constituents or others in the payment to the Recipient of fees, charges, taxes, assessments, tolls or other charges ("Charges") levied or imposed by the Recipient. The Recipient shall provide for the punctual payment to the State Water Board of all amounts which become due under this Agreement and which are received from constituents or others in the payment to the Recipient. In the event of failure, neglect or refusal of any officer of the Recipient to levy or cause to be levied any Charge to provide payment

by the Recipient under this Agreement, to enforce or to collect such Charge, or to pay over to the State Water Board any money collected on account of such Charge necessary to satisfy any amount due under this Agreement, the State Water Board may take such action in a court of competent jurisdiction as it deems necessary to compel the performance of all duties relating to the imposition or levying and collection of any of such Charges and the payment of the money collected therefrom to the State Water Board. Action taken pursuant hereto shall not deprive the State Water Board of, or limit the application of, any other remedy provided by law or by this Agreement.

Each Installment Payment shall be paid in lawful money of the United States of America by check or other acceptable form of payment set forth at www.waterboards.ca.gov/make_a_payment.

The Recipient shall not be entitled to interest earned on undisbursed funds. Upon execution of this Agreement, the State Water Board shall encumber an amount equal to the Obligation. The Recipient shall pay Installment Payments and Additional Payments from Net Revenues and/or other amounts legally available to the Recipient therefor. Interest on any funds disbursed to the Recipient shall begin to accrue as of the date of each disbursement.

(b) Project Costs. The Recipient shall pay any and all costs connected with the Project including, without limitation, any and all Project Costs. If the Project Funds are not sufficient to pay the Project Costs in full, the Recipient shall nonetheless complete the Project and pay that portion of the Project Costs in excess of available Project Funds, and shall not be entitled to any reimbursement therefor from the State Water Board.

(c) Additional Payments. In addition to the Installment Payments required to be made by the Recipient, the Recipient shall also pay to the State Water Board the reasonable extraordinary fees and expenses of the State Water Board, and of any assignee of the State Water Board's right, title, and interest in and to this Agreement, in connection with this Agreement, including all expenses and fees of accountants, trustees, staff, contractors, consultants, costs, insurance premiums and all other extraordinary costs reasonably incurred by the State Water Board or assignee of the State Water Board.

Additional Payments may be billed to the Recipient by the State Water Board from time to time, together with a statement executed by a duly authorized representative of the State Water Board, stating that the amounts billed pursuant to this section have been incurred by the State Water Board or its assignee for one or more of the above items and a copy of the invoice or statement for the amount so incurred or paid. Amounts so billed shall be paid by the Recipient within thirty (30) days after receipt of the bill by the Recipient.

(d) The Recipient may not prepay any portion of the principal and interest due under this Agreement without the written consent of the Deputy Director of the Division.

3.3 Obligation Absolute.

The obligation of the Recipient to make the Installment Payments and other payments required to be made by it under this Agreement, from Net Revenues and/or other amounts legally available to the Recipient therefor, is absolute and unconditional, and until such time as the Installment Payments and Additional Payments have been paid in full, the Recipient shall not discontinue or suspend any Installment Payments or other payments required to be made by it hereunder when due, whether or not the System or any part thereof is operating or operable or has been completed, or its use is suspended, interfered with, reduced or curtailed or terminated in whole or in part, and such Installment Payments and other payments shall not be subject to reduction whether by offset or otherwise and shall not be conditional upon the performance or nonperformance by any party of any agreement for any cause whatsoever.

3.4 No Obligation of the State.

Any obligation of the State Water Board herein contained shall not be an obligation, debt, or liability of the State and any such obligation shall be payable solely out of the moneys encumbered pursuant to this Agreement. If this Agreement's funding for any fiscal year expires due to reversion or is reduced, substantially delayed, or deleted by the Budget Act, by Executive Order, or by order or action of the Department of Finance, the State shall have the option to either cancel this Agreement with no liability occurring to the State, or offer an amendment to the Recipient to reflect the reduced amount.

3.5 Disbursement of Project Funds; Availability of Funds.

(a) Except as may be otherwise provided in this Agreement, disbursement of Project Funds will be made as follows:

(1) Upon execution and delivery of this Agreement by both parties, the Recipient may request immediate disbursement of any eligible incurred planning and design allowance as specified in Exhibit B from the Project Funds through submission to the State Water Board of the Disbursement Request Form 260 and Form 261, or any amendment thereto, duly completed and executed.
(2) The Recipient may request disbursement of eligible construction and equipment costs consistent with budget amounts referenced in Exhibit B and Exhibit A-FBA. (Note that this Agreement will be amended to incorporate Exhibit A-FBA after final budget approval.)
(3) Additional Project Funds will be promptly disbursed to the Recipient upon receipt of Disbursement Request Form 260 and Form 261, or any amendment thereto, duly completed and executed by the Recipient for incurred costs consistent with this Agreement, along with receipt of status reports due under Section 2.15 above.
(4) The Recipient shall not request disbursement for any Project Cost until such cost has been incurred and is currently due and payable by the Recipient, although the actual payment of such cost by the Recipient is not required as a condition of disbursement request. Supporting documentation (e.g., receipts) must be submitted with each Disbursement Request. The amount requested for administration costs must include a calculation formula (i.e., hours or days worked times the hourly or daily rate = total amount claimed). Disbursement of Project Funds will be made only after receipt of a complete, adequately supported, properly documented, and accurately addressed Disbursement Request.
(5) Recipient shall spend Project Funds within 30 days of receipt. Any interest earned on Project Funds shall be reported to the State Water Board and may be required to be returned to the State Water Board or deducted from future disbursements.
(6) The Recipient shall not be entitled to interest earned on undisbursed funds.
(7) The Recipient shall not request a disbursement unless that Project Cost is allowable, reasonable, and allocable.
(8) Notwithstanding any other provision of this Agreement, no disbursement shall be required at any time or in any manner which is in violation of or in conflict with federal or state laws, policies, or regulations.
(9) Costs incurred for travel outside the State of California are not eligible for reimbursement under this Agreement unless the Division provides prior written authorization. Any reimbursement for necessary travel and per diem shall be at rates not to exceed those set by the California Department of Human Resources. These rates may be found at http://www.calhr.ca.gov/employees/Pages/travel-reimbursements.aspx. Reimbursement will be at the State travel and per diem amounts that are current as of the date costs are incurred by the Recipient.

(b) The State Water Board's obligation to disburse Project Funds is contingent upon the availability of sufficient funds to permit the disbursements provided for herein. If sufficient funds are not available for any reason, including but not limited to failure of the federal or State government to appropriate funds necessary for disbursement of Project Funds, the State Water Board shall not be obligated to make any disbursements to the Recipient under this Agreement. This provision shall be construed as a condition precedent to the obligation of the State Water Board to make any disbursements under this Agreement. Nothing in this Agreement shall be construed to provide the Recipient with a right of priority for disbursement over any other agency. If any disbursements due the Recipient under this Agreement are deferred because sufficient funds are unavailable, it is the intention of the State Water Board that such disbursement will be made to the Recipient when sufficient funds do become available, but this intention is not binding.

(c) Fraud and Misuse of Public Funds. All requests for disbursement submitted shall be accurate and signed by the Recipient's Authorized Representative under penalty of perjury. All costs submitted pursuant to this Agreement shall only be for the tasks set forth herein. The Recipient shall not submit any invoice containing costs that are ineligible or have been reimbursed from other funding sources unless required and specifically noted as such (i.e., match costs). Any eligible costs for which the Recipient is seeking reimbursement shall not be reimbursed from any other source. Double or multiple billing for time, services, or any other eligible cost is improper and will not be compensated. Any suspected occurrences of fraud, forgery, embezzlement, theft, or any other misuse of public funds may result in suspension of disbursements and, notwithstanding any other section in this Agreement, the termination of this Agreement requiring the repayment of all funds disbursed hereunder. Additionally, the Deputy Director of the Division may request an audit and refer the matter to the Attorney General's Office or the appropriate district attorney's office for criminal prosecution or the imposition of civil liability.

3.6 Withholding of Disbursements and Material Violations.

Notwithstanding any other provision of this Agreement, the State Water Board may withhold all or any portion of the Project Funds upon the occurrence of any of the following events:

a. The Recipient's failure to maintain reasonable progress on the Project as determined by the Division;
b. Placement on the ballot or passage of an initiative or referendum to repeal or reduce the Recipient's taxes, assessments, fees, or charges levied for operation of the System or repayment of debt service on System Obligations;
c. Commencement of litigation or a judicial or administrative proceeding related to the System, Project, or Revenues that the State Water Board determines may impair the timely completion of the Project or the repayment of the Obligation;
d. Any investigation by the District Attorney, California State Auditor, Bureau of State Audits, United States Environmental Protection Agency's Office of Inspector General, the Internal Revenue Service, Securities and Exchange Commission, a grand jury, or any other state or federal agency, relating to the Recipient's financial management, accounting procedures, or internal fiscal controls;
e. A material adverse change in the condition of the Recipient, the Revenues, or the System, that the Division reasonably determines would materially impair the Recipient's ability to satisfy its obligations under this Agreement, or any other event that the Division reasonably determines would materially impair the Recipient's ability to satisfy its obligations under this Agreement,
f. The Recipient's material violation of, or threat to materially violate, any term of this Agreement;
g. Evidence of fraud, forgery, embezzlement, theft, or any other misuse of public funds by the Recipient or its employees, or by its contractors or agents regarding the Project or the System;

h. An Event of Default or an event that the Division determines may become an Event of Default;

3.7 Pledge; Rates, Fees and Charges; Additional Debt.

(a) Establishment of Enterprise Fund and Reserve Fund. In order to carry out its System Obligations, the Recipient covenants that it shall establish and maintain or shall have established and maintained the Enterprise Fund. All Revenues received shall be deposited when and as received in trust in the Enterprise Fund. As required in paragraph (f) of this Section, the Recipient shall establish and maintain a Reserve Fund.

(b) Pledge of Net Revenues, Enterprise Fund, and Reserve Fund. The Obligation hereunder shall be secured by a lien on and pledge of the Enterprise Fund, Net Revenues, and any Reserve Fund in priority as specified in Exhibit F (senior, parity, or subordinate). The Recipient hereby pledges and grants such lien on and pledge of the Enterprise Fund, Net Revenues, and any Reserve Fund to secure the Obligation, including payment of Installment Payments and Additional Payments hereunder. The Net Revenues in the Enterprise Fund, shall be subject to the lien of such pledge without any physical delivery thereof or further act, and the lien of such pledge shall be valid and binding as against all parties having claims of any kind in tort, contract, or otherwise against the Recipient.

(c) Application and Purpose of the Enterprise Fund. Subject to the provisions of any outstanding System Obligation, money on deposit in the Enterprise Fund shall be applied and used first, to pay Operations and Maintenance Costs, and thereafter, all amounts due and payable with respect to the System Obligations. After making all payments hereinabove required to be made in each Fiscal Year, the Recipient may expend in such Fiscal Year any remaining money in the Enterprise Fund for any lawful purpose of the Recipient, including payment of subordinate debt.

(d) Rates, Fees and Charges.

The Recipient shall, to the extent permitted by law, fix, prescribe and collect rates, fees and charges for the System during each Fiscal Year which are reasonable, fair, and nondiscriminatory and which will be sufficient to generate Revenues in the amounts necessary to cover Operations and Maintenance Costs, and shall ensure that Net Revenues are equal to at least 120% of the Maximum Annual Debt Service with respect to all outstanding System Obligations.

The Recipient may make adjustments from time to time in such fees and charges and may make such classification thereof as it deems necessary, but shall not reduce the rates, fees and charges then in effect unless the Net Revenues from such reduced rates, fees, and charges will at all times be sufficient to meet the requirements of this section.

(e) Additional Debt Test.

(1) Additional Senior Debt. The Recipient's future debt that is secured by Revenues pledged herein may not be senior to this Obligation, except where the new senior obligation refunds or refinances a senior obligation with the same lien position as the existing senior obligation, the new senior obligation has the same or earlier repayment term as the refunded senior debt, the new senior debt service is the same or lower than the existing debt service, and the new senior debt will not diminish the Recipient's ability to repay its SRF obligations.

(2) Additional Parity or Subordinate Debt. The Recipient may issue additional parity or subordinate debt only if

(A) Net Revenues in the most recent Fiscal Year, excluding transfers from a rate stabilization fund, if any, meet the ratio for rate covenants set forth in paragraph (d) of this Section with respect to all outstanding and proposed additional obligations;

(B) The Recipient is in compliance with any reserve fund requirement of this Obligation.

(f) Reserve Fund.

Prior to Completion of Construction, the Recipient shall establish a restricted Reserve Fund, held in its Enterprise Fund, equal to one year's Debt Service on this Obligation. The Recipient shall maintain the Reserve Fund throughout the term of this Agreement. The Reserve Fund shall be subject to lien and pledged as security for this Obligation, and its use shall be restricted to payment of this Obligation during the term of this Agreement.

(g) The Recipient may issue or incur subordinate obligations or otherwise issue or incur obligations payable from a lien on Net Revenues that is subordinate to the lien of Net Revenues securing the Obligation.

(h) The Recipient shall not make any pledge of or place any lien on Revenues and shall not make any pledge of or place any lien on Net Revenues except as otherwise provided or permitted by this Agreement.

3.8 Financial Management System and Standards.

The Recipient shall comply with federal standards for financial management systems. The Recipient agrees that, at a minimum, its fiscal control and accounting procedures will be sufficient to permit preparation of reports required by the federal government and tracking of Project funds to a level of expenditure adequate to establish that such funds have not been used in violation of federal or state law or the terms of this Agreement. To the extent applicable, the Recipient shall be bound by, and to comply with, the provisions and requirements of the federal Single Audit Act of 1984, Office of Management and Budget (OMB) Circular No. A-133 and 2 CFR Part 200, subpart F, and updates or revisions, thereto.

3.9 Accounting and Auditing Standards.

The Recipient must maintain project accounts according to GAAP as issued by the Governmental Accounting Standards Board (GASB) or its successor. The Recipient shall maintain GAAP-compliant project accounts, including GAAP requirements relating to the reporting of infrastructure assets.

3.10 Other Assistance.

If funding for Project Costs is made available to the Recipient from sources other than this Agreement, the Recipient shall notify the Division. The Recipient may retain such funding up to an amount which equals the Recipient's local share of Project Costs. To the extent allowed by requirements of other funding sources, excess funding shall be remitted to the State Water Board to be applied to Installment Payments due hereunder, if any.

ARTICLE IV MISCELLANEOUS PROVISIONS

4.1 Amendment.

No amendment or variation of the terms of this Agreement shall be valid unless made in writing and signed by both the Recipient and the Deputy Director or designee. Requests for amendments shall be made in writing and directed to the Deputy Director.

4.2 Assignability.

The Recipient consents to any pledge, sale, or assignment to the Bank or a trustee for the benefit of the owners of the Bonds, if any, at any time of any portion of the State Water Board's estate, right, title, and interest and claim in, to and under this Agreement and the right to make all related waivers and agreements in the name and on behalf of the State Water Board, as agent and attorney-in-fact, and to perform all other related acts which are necessary and appropriate under this Agreement, if any, and the State Water Board's estate, right, title, and interest and claim in, to and under this Agreement to Installment Payments (but excluding the State Water Board's rights to Additional Payments and to notices, opinions and indemnification under each Obligation). This Agreement is not assignable by the Recipient, either in whole or in part, without the consent of the State Water Board in the form of a formal written amendment to this Agreement.

4.3 Bonding.

Where contractors are used, the Recipient shall not authorize construction to begin until each contractor has furnished a performance bond in favor of the Recipient in the following amounts: faithful performance (100%) of contract value; labor and materials (100%) of contract value. This requirement shall not apply to any contract for less than $25,000.00.

4.4 Competitive Bidding

Recipient shall adhere to any applicable state law or local ordinance for competitive bidding and applicable labor laws.

4.5 Compliance with Law, Regulations, etc.

The Recipient shall, at all times, comply with and require its contractors and subcontractors to comply with all applicable federal and state laws, rules, guidelines, regulations, and requirements. Without limitation of the foregoing, to the extent applicable, the Recipient shall:

(a) Comply with the provisions of the adopted environmental mitigation plan, if any, for the term of this Agreement;

(b) Comply with the State Water Board's Policy;

(c) Comply with and require compliance with the list of State laws attached as Exhibit H.

(d) Comply with and require its contractors and subcontractors on the Project to comply with federal DBE requirements; and

(e) Comply with and require its contractors and subcontractors to comply with the list of federal laws attached as Exhibit E.

4.6 Conflict of Interest.

The Recipient certifies that its owners, officers, directors, agents, representatives, and employees are in compliance with applicable state and federal conflict of interest laws.

4.7 Damages for Breach Affecting Tax-Exempt Status or Federal Compliance

In the event that any breach of any of the provisions of this Agreement by the Recipient shall result in the loss of tax-exempt status for any bonds of the State or any subdivision or agency thereof, including Bonds issued on behalf of the State Water Board, or if such breach shall result in an obligation on the part of the State or any subdivision or agency thereof to reimburse the federal government by reason of any arbitrage profits, the Recipient shall immediately reimburse the State or any subdivision or agency thereof in an amount equal to any damages paid by or loss incurred by the State or any subdivision or agency thereof due to such breach. In the event that any breach of any of the provisions of this Agreement by the Recipient shall result in the failure of Project Funds to be used pursuant to the provisions of this Agreement, or if such breach shall result in an obligation on the part of the State or any subdivision or agency thereof to reimburse the federal government, the Recipient shall immediately reimburse the State or any subdivision or agency thereof in an amount equal to any damages paid by or loss incurred by the State or any subdivision or agency thereof due to such breach.

4.8 Disputes.

(a) The Recipient may appeal a staff decision within 30 days to the Deputy Director of the Division or designee, for a final Division decision. The Recipient may appeal a final Division decision to the State Water Board within 30 days. The Office of the Chief Counsel of the State Water Board will prepare a summary of the dispute and make recommendations relative to its final resolution, which will be provided to the State Water Board's Executive Director and each State Water Board Member. Upon the motion of any State Water Board Member, the State Water Board will review and resolve the dispute in the manner determined by the State Water Board. Should the State Water Board determine not to review the final Division decision, this decision will represent a final agency action on the dispute.

(b) This clause does not preclude consideration of legal questions, provided that nothing herein shall be construed to make final the decision of the State Water Board, or any official or representative thereof, on any question of law.

(c) Recipient shall continue with the responsibilities under this Agreement during any dispute.

(d) This section 4.8 relating to disputes does not establish an exclusive procedure for resolving claims within the meaning of Government Code sections 930 and 930.4.

4.9 Governing Law.

This Agreement is governed by and shall be interpreted in accordance with the laws of the State of California.

4.10 Income Restrictions.

The Recipient agrees that any refunds, rebates, credits, or other amounts (including any interest thereon) accruing to or received by the Recipient under this Agreement shall be paid by the Recipient to the State Water Board, to the extent that they are properly allocable to costs for which the Recipient has been reimbursed by the State Water Board under this Agreement.

4.11 Indemnification and State Reviews.

The parties agree that review or approval of Project plans and specifications by the State Water Board is for administrative purposes only, including conformity with application and eligibility criteria, and expressly not for the purposes of design defect review or construction feasibility, and does not relieve the Recipient of its responsibility to properly plan, design, construct, operate, and maintain the Project. To the extent permitted by law, the Recipient agrees to indemnify, defend, and hold harmless the State Water Board, the Bank, and any trustee, and their officers, employees, and agents for the Bonds, if any (collectively,

"Indemnified Persons"), against any loss or liability arising out of any claim or action brought against any Indemnified Persons from and against any and all losses, claims, damages, liabilities, or expenses, of every conceivable kind, character, and nature whatsoever arising out of, resulting from, or in any way connected with (1) the System or the Project or the conditions, occupancy, use, possession, conduct, or management of, work done in or about, or the planning, design, acquisition, installation, or construction, of the System or the Project or any part thereof; (2) the carrying out of any of the transactions contemplated by this Agreement or any related document; (3) any violation of any applicable law, rule or regulation, any environmental law (including, without limitation, the Federal Comprehensive Environmental Response, Compensation and Liability Act, the Resource Conservation and Recovery Act, the California Hazardous Substance Account Act, the Federal Water Pollution Control Act, the Clean Air Act, the Toxic Substances Control Act, the Occupational Safety and Health Act, the Safe Drinking Water Act, the California Hazardous Waste Control Law, and California Water Code Section 13304, and any successors to said laws), rule or regulation or the release of any toxic substance on or near the System; or (4) any untrue statement or alleged untrue statement of any material fact or omission or alleged omission to state a material fact necessary to make the statements required to be stated therein, in light of the circumstances under which they were made, not misleading with respect to any information provided by the Recipient for use in any disclosure document utilized in connection with any of the transactions contemplated by this Agreement, except those arising from the gross negligence or willful misconduct of the Indemnified Persons. The Recipient shall also provide for the defense and indemnification of the Indemnified Parties in any contractual provision extending indemnity to the Recipient in any contract let for the performance of any work under this Agreement, and shall cause the Indemnified Parties to be included within the scope of any provision for the indemnification and defense of the Recipient in any contract or subcontract. To the fullest extent permitted by law, the Recipient agrees to pay and discharge any judgment or award entered or made against Indemnified Persons with respect to any such claim or action, and any settlement, compromise or other voluntary resolution. The provisions of this section shall survive the term of this Agreement and the discharge of the Recipient's Obligation hereunder.

4.12 Independent Actor.

The Recipient, and its agents and employees, if any, in the performance of this Agreement, shall act in an independent capacity and not as officers, employees, or agents of the State Water Board.

4.13 Integration.

This Agreement constitutes the complete and final agreement between the parties. No oral or written understanding or agreement not incorporated in this Agreement shall be binding on either party.

4.14 Leveraging Covenants.

(a) Tax Covenant. Notwithstanding any other provision hereof, the Recipient covenants and agrees that it will comply with the Tax Covenants set forth in Article V of this Agreement.

(b) Disclosure of Financial Information, Operating Data, and Other Information. The Recipient covenants to furnish such financial, operating and other data pertaining to the Recipient as may be requested by the State Water Board to: (i) enable the State Water Board to cause the issuance of Bonds and provide for security therefor; or (ii) enable any underwriter of Bonds issued for the benefit of the State Water Board to comply with Rule 15c2-12(b)(5). The Recipient further covenants to provide the State Water Board with copies of all continuing disclosure documents or reports that are disclosed pursuant to (i) the Recipient's continuing disclosure undertaking or undertakings made in connection with any outstanding System Obligation, (ii) the terms of any outstanding System Obligation, or (iii) a voluntary disclosure of information related to an outstanding System Obligation. The Recipient shall disclose such documents or reports to the State Water Board at the same time such documents or reports are submitted to any

dissemination agent, trustee, nationally recognized municipal securities information repository, the Municipal Securities Rulemaking Board's Electronic Municipal Market Access (EMMA) website or other person or entity.

4.15 Non-Discrimination Clause.

(a) The Recipient shall comply with Government Code section 11135 and the implementing regulations (Cal. Code Regs, tit. 2, § 11140 et seq.), including, but not limited to, ensuring that no person is unlawfully denied full and equal access to the benefits of, or unlawfully subjected to discrimination in the operation of, the Project or System on the basis of sex, race, color, religion, ancestry, national origin, ethnic group identification, age, mental disability, physical disability, medical condition, genetic information, marital status, or sexual orientation as such terms are defined under California law, for as long as the Recipient retains ownership or possession of the Project.

(b) If Project Funds are used to acquire or improve real property, the Recipient shall include a covenant of nondiscrimination running with the land in the instrument effecting or recording the transfer of such real property.

(c) The Recipient shall comply with the federal American with Disabilities Act of 1990 and implementing regulations as required by Government Code section 11135(b).

(d) The Recipient's obligations under this section shall survive the term of this Agreement.

(e) During the performance of this Agreement, Recipient and its contractors and subcontractors shall not unlawfully discriminate, harass, or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, sexual orientation, physical disability (including HIV and AIDS), mental disability, medical condition (cancer), age (over 40), marital status, denial of family care leave, or genetic information, gender, gender identity, gender expression, or military and veteran status.

(f) The Recipient, its contractors, and subcontractors shall ensure that the evaluation and treatment of their employees and applicants for employment are free from such discrimination and harassment.

(g) The Recipient, its contractors, and subcontractors shall comply with the provisions of the Fair Employment and Housing Act and the applicable regulations promulgated thereunder. (Gov. Code, §12990, subds. (a)-(f) et seq.;Cal. Code Regs., tit. 2, § 7285 et seq.) Such regulations are incorporated into this Agreement by reference and made a part hereof as if set forth in full.

(h) The Recipient, its contractors, and subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement.

(i) The Recipient shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under this Agreement.

4.16 No Third Party Rights.

The parties to this Agreement do not create rights in, or grant remedies to, any third party as a beneficiary of this Agreement, or of any duty, covenant, obligation, or undertaking established herein.

4.17 Operation and Maintenance; Insurance.

The Recipient agrees to sufficiently and properly staff, operate and maintain all portions of the System during its useful life in accordance with all applicable state and federal laws, rules, and regulations.

The Recipient will procure and maintain or cause to be maintained insurance on the System with responsible insurers, or as part of a reasonable system of self-insurance, in such amounts and against such risks (including damage to or destruction of the System) as are usually covered in connection with systems similar to the System. Such insurance may be maintained by a self-insurance plan so long as such plan provides for (i) the establishment by the Recipient of a separate segregated self-insurance fund in an amount determined (initially and on at least an annual basis) by an independent insurance consultant experienced in the field of risk management employing accepted actuarial techniques and (ii) the establishment and maintenance of a claims processing and risk management program.

In the event of any damage to or destruction of the System caused by the perils covered by such insurance, the net proceeds thereof shall be applied to the reconstruction, repair or replacement of the damaged or destroyed portion of the System. The Recipient shall begin such reconstruction, repair or replacement as expeditiously as possible, and shall pay out of such net proceeds all costs and expenses in connection with such reconstruction, repair or replacement so that the same shall be completed and the System shall be free and clear of all claims and liens. If such net proceeds are insufficient to reconstruct, repair, or restore the System to the extent necessary to enable the Recipient to pay all remaining unpaid principal portions of the Installment Payments, if any, in accordance with the terms of this Agreement, the Recipient shall provide additional funds to restore or replace the damaged portions of the System.

Recipient agrees that for any policy of insurance concerning or covering the construction of the Project, it will cause, and will require its contractors and subcontractors to cause, a certificate of insurance to be issued showing the State Water Board, its officers, agents, employees, and servants as additional insured; and shall provide the Division with a copy of all such certificates prior to the commencement of construction of the Project.

4.18 Permits, Subcontracting, and Remedies.

The Recipient shall comply in all material respects with all applicable federal, state and local laws, rules and regulations. Recipient shall procure all permits, licenses and other authorizations necessary to accomplish the work contemplated in this Agreement, pay all charges and fees, and give all notices necessary and incidental to the due and lawful prosecution of the work. Signed copies of any such permits or licenses shall be submitted to the Division before construction begins.

The Recipient shall not contract or allow subcontracting with excluded parties. The Recipient shall not contract with any party who is debarred or suspended or otherwise excluded from or ineligible for participation in any work overseen, directed, funded, or administered by the State Water Board program for which this funding is authorized. For any work related to this Agreement, the Recipient shall not contract with any individual or organization on the State Water Board's List of Disqualified Businesses and Persons that is identified as debarred or suspended or otherwise excluded from or ineligible for participation in any work overseen, directed, funded, or administered by the State Water Board program for which funding under this Agreement is authorized. The State Water Board's List of Disqualified Businesses and Persons is located at
http://www.waterboards.ca.gov/water_issues/programs/enforcement/fwa/dbp.shtml

4.19 Prevailing Wages.

The Recipient agrees to be bound by all applicable provisions of State Labor Code regarding prevailing wages. The Recipient shall monitor all agreements subject to reimbursement from this Agreement to ensure that the prevailing wage provisions of the State Labor Code are being met. In addition, the Recipient agrees to comply with the provisions of Exhibit G (Davis-Bacon).

4.20 Public Funding.

This Project is publicly funded. Any service provider or contractor with which the Recipient contracts must not have any role or relationship with the Recipient, that, in effect, substantially limits the Recipient's ability to exercise its rights, including cancellation rights, under the contract, based on all the facts and circumstances.

4.21 Recipient's Responsibility for Work.

The Recipient shall be responsible for all work and for persons or entities engaged in work performed pursuant to this Agreement, including, but not limited to, contractors, subcontractors, suppliers, and providers of services. The Recipient shall be responsible for responding to any and all disputes arising out of its contracts for work on the Project. The State Water Board will not mediate disputes between the Recipient and any other entity concerning responsibility for performance of work.

4.22 Related Litigation.

Under no circumstances may the Recipient use funds from any disbursement under this Agreement to pay costs associated with any litigation the Recipient pursues against the State Water Board or any Regional Water Quality Control Board. Regardless of the outcome of any such litigation, and notwithstanding any conflicting language in this Agreement, the Recipient agrees to repay all of the disbursed funds plus interest in the event that Recipient does not complete the project.

4.23 Rights in Data.

The Recipient agrees that all data, plans, drawings, specifications, reports, computer programs, operating manuals, notes, and other written or graphic work produced in the performance of this Agreement are subject to the rights of the State as set forth in this section. The State shall have the right to reproduce, publish, and use all such work, or any part thereof, in any manner and for any purposes whatsoever and to authorize others to do so. If any such work is copyrightable, the Recipient may copyright the same, except that, as to any work which is copyrighted by the Recipient, the State reserves a royalty-free, nonexclusive, and irrevocable license to reproduce, publish, and use such work, or any part thereof, and to authorize others to do so, and to receive electronic copies from the Recipient upon request.

4.24 State Water Board Action; Costs and Attorney Fees.

Any remedy provided in this Agreement is in addition to and not in derogation of any other legal or equitable remedy available to the State Water Board as a result of breach of this Agreement by the Recipient, whether such breach occurs before or after completion of the Project, and exercise of any remedy provided by this Agreement by the State Water Board shall not preclude the State Water Board from pursuing any legal remedy or right which would otherwise be available. In the event of litigation between the parties hereto arising from this Agreement, it is agreed that each party shall bear its own costs and attorney fees.

4.25 Termination and Other Remedies Upon Event of Default.

For purposes of this section, the term "State Water Board" shall mean the State Water Board and its assignees.

(a) Return of Funds; Acceleration; and Additional Payments. Notwithstanding Exhibit B, if the Division determines that an Event of Default has occurred, the Recipient shall, upon demand, immediately do each of the following:

(a) return to the State Water Board the grant or principal forgiveness amounts received pursuant to this Agreement, if any;
(b) accelerate the payment of all principal owed under this Agreement, if any, which shall be immediately due and payable;
(c) pay interest at the highest legal rate on all amounts owed; and
(d) pay any Additional Payments.

(b) Judicial remedies. Whenever the State Water Board determines that an Event of Default shall have occurred, the State Water Board may enforce its rights under this Agreement by any judicial proceeding, whether at law or in equity. Without limiting the generality of the foregoing, the State Water Board may: by suit in equity, require the Recipient to account for amounts relating to this Agreement as if the Recipient were the trustee of an express trust; by mandamus or other proceeding, compel the performance by the Recipient and any of its officers, agents, and employees of any duty under the law or of any obligation or covenant under this Agreement, including but not limited to the imposition and collection of rates for the services of the System sufficient to meet all requirements of this Agreement; and take whatever action at law or in equity as may appear necessary or desirable to the State Water Board to collect the Installment Payments then due or thereafter to become due, or to enforce performance of any obligation or covenant of the Recipient under this Agreement.

(c) Termination. Upon an Event of Default, the State Water Board may terminate this Agreement. Interest shall accrue on all amounts due at the highest legal rate of interest from the date that the State Water Board delivers notice of termination to the Recipient.

(d) Remedies Not Exclusive. None of the remedies available to the State Water Board shall be exclusive of any other remedy, and each such remedy shall be cumulative and in addition to every other remedy given hereunder or now or hereafter existing at law or in equity. The State Water Board may exercise any remedy, now or hereafter existing, without exhausting and without regard to any other remedy.

(e) Non-waiver. Nothing in this section or any other section of this Agreement shall affect or impair the Recipient's obligation to pay Installment Payments as provided herein or shall affect or impair the right of the State Water Board to bring suit to enforce such payment. No delay or omission of the State Water Board in the exercise of any right arising upon an Event of Default shall impair any such right or be construed to be a waiver of any such Event of Default. The State Water Board may exercise from time to time and as often as shall be deemed expedient by the State Water Board, any remedy or right provided by law or pursuant to this Agreement.

(f) Status Quo. If any action to enforce any right or exercise any remedy shall be brought and either discontinued or determined adversely to the State Water Board, then the State Water Board shall be restored to its former position, rights and remedies as if no such action had been brought.

4.26 Timeliness.

Time is of the essence in this Agreement.

4.27 Unenforceable Provision.

In the event that any provision of this Agreement is unenforceable or held to be unenforceable, then the parties agree that all other provisions of this Agreement have force and effect and shall not be affected thereby.

4.28 Useful Life.

The Recipient warrants that the economic useful life of the Project, commencing at Project Completion, is at least equal to the term of this Agreement, as set forth in Exhibit B.

4.29 Venue.

Any action arising out of this Agreement shall be filed and maintained in the Superior Court in and for the County of Sacramento, California.

4.30 Waiver and Rights of the State Water Board.

Any waiver of rights by the State Water Board with respect to a default or other matter arising under this Agreement at any time shall not be considered a waiver of rights with respect to any other default or matter.

Any rights and remedies of the State Water Board provided for in this Agreement are in addition to any other rights and remedies provided by law.

ARTICLE V TAX COVENANTS

5.1 Purpose.

The purpose of this Article V is to establish the reasonable expectations of the Recipient regarding the Project and the Project Funds, and is intended to be and may be relied upon for purposes of Sections 103, 141 and 148 of the Code and as a certification described in Section 1.148-2(b)(2) of the Treasury Regulations. This Article V sets forth certain facts, estimates and circumstances which form the basis for the Recipient's expectation that neither the Project nor the Bond Funded Portion of the Project Funds is to be used in a manner that would cause the Obligation to be classified as "arbitrage bonds" under Section 148 of the Code or "private activity bonds" under Section 141 of the Code.

5.2 Tax Covenant.

The Recipient agrees that it will not take or authorize any action or permit any action within its reasonable control to be taken, or fail to take any action within its reasonable control, with respect to the Project which would result in the loss of the exclusion of interest on the Bonds from gross income for federal income tax purposes under Section 103 of the Code.

5.3 Governmental Unit.

The Recipient is a state or local governmental unit as defined in Section 1.103-1 of the Treasury Regulations or an instrumentality thereof (a "Governmental Unit") and is not the federal government or any agency or instrumentality thereof.

5.4 Financing of a Capital Project.

The Recipient will use the Project Funds to finance costs it has incurred or will incur for the construction, reconstruction, installation or acquisition of the Project. Such costs shall not have previously been financed with the proceeds of any other issue of tax-exempt obligations.

5.5 Ownership and Operation of Project.

The Recipient exclusively owns and, except as provided in Section 5.12 hereof, operates the Project.

5.6 Temporary Period.

The Recipient reasonably expects that at least eighty-five percent (85%) of the Bond Funded Portion of the Project Funds will be allocated to expenditures for the Project within three (3) years of the earlier of the effective date of this Agreement or the date the Bonds are issued ("Applicable Date"). The Recipient has incurred, or reasonably expects that it will incur within six (6) months of the Applicable Date, a substantial binding obligation (i.e., not subject to contingencies within the control of the Recipient or a related party) to a third party to expend at least five percent (5%) of the Bond Funded Portion of the Project Funds on Project Costs. The completion of acquisition, construction, improvement and equipping of the Project and the allocation of the Bond Funded Portion of the Project Funds to Project Costs will proceed with due diligence.

5.7 Working Capital.

No operational expenditures of the Recipient or any related entity are being, have been or will be financed or refinanced with Project Funds.

5.8 Expenditure of Proceeds.

The Bond Funded Portion of the Project Funds shall be used exclusively for the following purposes: (i) Reimbursement Expenditures (as defined in Section 5.20 below), (ii) Preliminary Expenditures (as defined in Section 5.20 below) in an aggregate amount not exceeding twenty percent (20%) of the Bond Funded Portion of the Project Funds, (iii) capital expenditures relating to the Project originally paid by the Recipient on or after the date hereof, (iv) interest on the Obligation through the later of three (3) years after the Applicable Date or one (1) year after the Project is placed in service, and (v) initial operating expenses directly associated with the Project in the aggregate amount not more than five percent (5%) of the Bond Funded Portion of the Project Funds.

5.9 Private Use and Private Payments.

No portion of the Project Funds or the Project is being, has been or will be used in the aggregate for any activities that constitute a Private Use (as defined below). No portion of the principal of or interest with respect to the Installment Payments will be secured by any interest in property (whether or not the Project) used for a Private Use or in payments in respect of property used for a Private Use, or will be derived from payments in respect of property used for a Private Use. "Private Use" means any activity that constitutes a trade or business that is carried on by persons or entities, other than a Governmental Unit. The leasing of the Project or the access by or the use of the Project by a person or entity other than a Governmental Unit on a basis other than as a member of the general public shall constitute a Private Use. Use by or on behalf of the State of California or any of its agencies, instrumentalities or subdivisions or by any local Governmental Unit and use as a member of the general public will be disregarded in determining whether a Private Use exists. Use under an arrangement that conveys priority rights or other preferential benefits is generally not use on the same basis as the general public. Arrangements providing for use that is available to the general public at no charge or on the basis of rates that are generally applicable and uniformly applied do not convey priority rights or other preferential benefits. For this purpose, rates may be treated as generally applicable and uniformly applied even if (i) different rates apply to different classes of users, such as volume purchasers, if the differences in rates are customary and reasonable; or (ii) a specially negotiated rate arrangement is entered into, but only if the user is

prohibited by federal law from paying the generally applicable rates, and the rates established are as comparable as reasonably possible to the generally applicable rates. An arrangement that does not otherwise convey priority rights or other preferential benefits is not treated, nevertheless, as general public use if the term of the use under the arrangement, including all renewal options, is greater than 200 days. For this purpose, a right of first refusal to renew use under the arrangement is not treated as a renewal option if (i) the compensation for the use under the arrangement is redetermined at generally applicable, fair market value rates that are in effect at the time of renewal; and (ii) the use of the financed property under the same or similar arrangements is predominantly by natural persons who are not engaged in a trade or business.

5.10 No Sale, Lease or Private Operation of the Project.

The Project (or any portion thereof) will not be sold or otherwise disposed of, in whole or in part, to any person who is not a Governmental Unit prior to the final maturity date of the Obligation. The Project will not be leased to any person or entity that is not a Governmental Unit prior to the final maturity date of the Obligation. Except as permitted under Section 5.12 hereof, the Recipient will not enter any contract or arrangement or cause or permit any contract or arrangement to be entered with persons or entities that are not Governmental Units if that contract or arrangement would confer on such persons or entities any right to use the Project on a basis different from the right of members of the general public. The contracts or arrangements contemplated by the preceding sentence include but are not limited to management contracts, take or pay contracts or put or pay contracts, and capacity guarantee contracts.

5.11 No Disproportionate or Unrelated Use.

No portion of the Project Funds or the Project is being, has been, or will be used for a Private Use that is unrelated or disproportionate to the governmental use of the Project Funds.

5.12 Management and Service Contracts.

The Recipient represents that, as of the date hereof, it is not a party to any contract, agreement or other arrangement with any persons or entities engaged in a trade or business (other than Governmental Units) that involve the management or operation of property or the provision of services at or with respect to the Project that does not comply with the standards of the Treasury Regulations, Revenue Procedure 97-13, as modified by Revenue Procedure 2001-39 and IRS Notice 2014-67, or Revenue Procedure 2017-13, as applicable. The Recipient represents that it will not be party to any such contract, agreement or arrangement with any person or entity that is not a Governmental Unit for the management of property or the provision of services at or with respect to the Project, while the Obligation (including any obligation or series thereof issued to refund the Obligation, as the case may be) is outstanding, except: (a) with respect to any contract, agreement or arrangement that does not constitute "private business use" of the Project under Code §141(b), or (b) with respect to any contract, agreement or arrangement that complies with (i) Revenue Procedure 97-13, 1997-1 C.B. 632, as amended by Revenue Procedure 2001-39, 2001-2 C.B. 38, and as amplified by Notice 2014-67, with respect to contracts entered into before August 18, 2017 and not materially modified or extended after August 18, 2017, or (ii) Revenue Procedure 2017-13, with respect to contracts entered into or materially modified or extended on or after August 18, 2017, or (c) with respect to any contract, agreement or arrangement that does not give rise to use of the Bond Funded Portion of the Project Funds or the Project by a non-Governmental Unit of more than the amount of such non-qualified use permitted by the Code, or (d) in the event that the Recipient receives an opinion of counsel, satisfactory to the State Water Board and the Bank and expert in the issuance of state and local government bonds the interest on which is excluded from gross income under Section 103 of the Code ("Nationally-Recognized Bond Counsel"), that such contract, agreement or arrangement will not adversely affect the exclusion of the interest on the Obligation from gross income for federal income taxation purposes.

5.13 No Disposition of Financed Property.

As of the date hereof, the Recipient does not expect to sell or otherwise dispose of any portion of the Project, in whole or in part, prior to the final maturity date of the Obligation.

5.14 Useful Life of Project.

As of the date hereof, the Recipient reasonably expects that the economic useful life of the Project, commencing at Project Completion, will be at least equal to the term of this Agreement, as set forth on Exhibit B hereto.

5.15 Installment Payments.

Installment Payments generally are expected to be derived from assessments, taxes, fees, charges or other current Revenues of the Recipient in each year, and such current Revenues are expected to equal or exceed the Installment Payments during each payment period. Any amounts accumulated in a sinking fund or bona fide debt service fund to pay Installment Payments (whether or not deposited to a fund or account established by the Recipient) will be disbursed to pay Installment Payments within thirteen months of the initial date of accumulation or deposit. Any such fund used for the payment of Installment Payments will be depleted once a year except for a reasonable carryover amount not exceeding the greater of earnings on such fund or one-twelfth of the Installment Payments in either case for the immediately preceding year.

5.16 No Other Replacement Proceeds.

The Recipient will not use any of the Bond Funded Portion of the Project Funds to replace or substitute other funds of the Recipient that were otherwise to be used to finance the Project or which are or will be used to acquire securities, obligations or other investment property reasonably expected to produce a yield that is materially higher than the yield on the Bonds.

5.17 No Sinking or Pledged Fund.

Except as set forth in Section 5.18 below, the Recipient will not create or establish any sinking fund or pledged fund which will be used to pay Installment Payments on the Obligation within the meaning of Section 1.148-1(c) of the Treasury Regulations. If any sinking fund or pledged fund comes into being with respect to the Obligation before the Obligation has been fully retired which may be used to pay the Installment Payments, the Recipient will invest such sinking fund and pledged fund moneys at a yield that does not exceed the yield on the Bonds.

5.18 Reserve Amount.

The State Water Board requires that the Recipient maintain and fund a separate account in an amount equal to one (1) year of Debt Service with respect to the Obligation (the “Reserve Amount”) as set forth in Section 3.7. The Recipient represents that the Reserve Amount is and will be available to pay debt service with respect to the Obligation, if and when needed. The Reserve Amount consists solely of revenues of the Recipient and does not include any proceeds of any obligations the interest on which is excluded from gross income for federal income tax purposes or investment earnings thereon. The aggregate of the Reserve Amount, up to an amount not exceeding the lesser of (i) ten percent of the aggregate principal amount of the Obligation, (ii) the maximum annual debt service with respect to the Obligation, or (iii) 125 percent of the average annual debt service with respect to the Obligation, will be treated as a reasonably required reserve fund.

5.19 Reimbursement Resolution.

The "reimbursement resolution" adopted by the Recipient is incorporated herein by reference, pursuant to Exhibit A.

5.20 Reimbursement Expenditures.

Reimbursements are disallowed, except as specifically authorized in Exhibit B or Exhibit D of this Agreement. To the extent so authorized, a portion of the Bond Funded Portion of the Project Funds may be applied to reimburse the Recipient for Project Costs paid before the date hereof, so long as the Project Cost was (i) not paid prior to sixty (60) days before the Recipient's adoption of a declaration of official intent to finance the Project, (ii) not paid more than eighteen (18) months prior to the date hereof or the date the Project was placed-in-service, whichever is later, and (iii) not paid more than three (3) years prior to the date hereof (collectively, "Reimbursement Expenditures"), unless such cost is attributable to a "preliminary expenditure." Preliminary expenditure for this purpose means architectural, engineering, surveying, soil testing and similar costs incurred prior to the commencement of construction or rehabilitation of the Project, but does not include land acquisition, site preparation and similar costs incident to the commencement of acquisition, construction or rehabilitation of the Project. Preliminary expenditures may not exceed 20% of the Bond Funded Portion of the Project Funds.

5.21 Change in Use of the Project.

The Recipient reasonably expects to use all of the Bond Funded Portion of the Project Funds and the Project for the entire stated term to maturity of the Obligation. Absent an opinion of Nationally-Recognized Bond Counsel to the effect that such use of the Bond Funded Portion of the Project Funds will not adversely affect the exclusion from federal gross income of interest on the Bonds pursuant to Section 103 of the Code, the Recipient will use the Bond Funded Portion of the Project Funds and the Project solely as set forth in this Agreement.

5.22 Rebate Obligations.

If the Recipient satisfies the requirements of one of the spending exceptions to rebate specified in Section 1.148-7 of the Treasury Regulations, amounts earned from investments, if any, acquired with the Bond Funded Portion of the Project Funds will not be subject to the rebate requirements imposed under Section 148(f) of the Code. If the Recipient fails to satisfy such requirements for any period, it will notify the State Water Board and the Bank immediately and will comply with the provisions of the Code and the Treasury Regulations at such time, including the payment of any rebate amount calculated by the State Water Board or the Bank.

5.23 No Federal Guarantee.

The Recipient will not directly or indirectly use any of the Bond Funded Portion of the Project Funds in any manner that would cause the Bonds to be "federally guaranteed" within the meaning of Section 149(b) of the Code, taking into account various exceptions including any guarantee related to investments during an initial temporary period until needed for the governmental purpose of the Bonds, investments as part of a bona fide debt service fund, investments of a reasonably required reserve or replacement fund, investments in bonds issued by the United States Treasury, investments in refunding escrow funds or certain other investments permitted under the Treasury Regulations.

5.24 No Notices or Inquiries from IRS.

Within the last 10 years, the Recipient has not received any notice of a final action of the Internal Revenue Service that determines that interest paid or payable on any debt obligation of the Recipient is or was includable in the gross income of an owner or beneficial owner thereof for federal income tax purposes under the Code.

5.25 Amendments.

The provisions in this Article may be amended, modified or supplemented at any time to reflect changes in the Code upon obtaining written approval of the State Water Board and the Bank and an opinion of Nationally-Recognized Bond Counsel to the effect that such amendment, modification or supplement will not adversely affect the exclusion from federal gross income of interest on the Bonds pursuant to Section 103 of the Code.

5.26 Reasonable Expectations.

The Recipient warrants that, to the best of its knowledge, information and belief, and based on the facts and estimates as set forth in the tax covenants in this Article, the expectations of the Recipient as set forth in this Article are reasonable. The Recipient is not aware of any facts or circumstances that would cause it to question the accuracy or reasonableness of any representation made in the provisions in this Article V.

IN WITNESS WHEREOF, this Amendment has been executed by the parties hereto.

CITY OF ROSEVILLE:

By: _____
Name: Dominick Casey
Title: City Manager

Date: _____

STATE WATER RESOURCES CONTROL BOARD:

By: _____
Name: Joe Karkoski
Title: Deputy Director
Division of Financial Assistance

Date: _____

EXHIBIT A – SCOPE OF WORK

1. Eligible Start Date. The Eligible Start Date is May 3, 2019.

2. Start of Construction Date. The Recipient agrees to start construction no later than the estimated date of February 15, 2020.

3. Completion of Construction Date. The Completion of Construction date is hereby established as ~~June 10, 2022~~**July 3, 2023**. The Recipient shall deliver any request for extension of the Completion of Construction date no less than 90 days prior to the Completion of Construction date.

4. Final Disbursement Request Date. The Recipient agrees to ensure that its final Request for Disbursement is received by the Division no later than ~~December 10, 2022~~**January 3, 2024**~~, unless prior approval has been granted by the Division~~. Otherwise, the undisbursed balance of this Agreement will be deobligated.

5. Records Retention Date is ~~June 10, 2058~~ **July 3, 2059**.

6. Incorporated Documents. Incorporated by reference into this Agreement are the following documents:

    a. the Final Plans & Specifications dated October 2018, respectively and Addenda Nos.1, 2, 3, 4 & 5, issued June 17, 2019, June 26, 2019, July 3, 2019, July 12, 2019 and July 22, 2019 respectively, are the basis for the construction contract to be awarded by the Recipient to W.M. Lyes;

    b. the Waste Discharge Requirement Order No. R5-2014-0051 and National Pollutant Discharge Elimination System Permit No. CA0084573;

    c. the Recipient's Reimbursement Resolution No. 17-427 dated August 1, 2018;

    d. the Recipient's Tax Questionnaire dated September 29, 2017.

7. Reporting. Status Reports due at least quarterly.

8. Scope of Work.

The present treatment capacity of the Pleasant Grove Wastewater Treatment Plant (PGWWTP) is not adequate to treat the projected influent loads that the plant is expected to receive in the future. In order to increase the plants treatment capacity, the Expansion Project is intended to achieve the following objectives:

- Increase the biochemical oxygen demand organic treatment capacity from 23,500 lbs/day to 34,500 lbs/day.
- Increase the overall treatment capacity of the existing PGWWTP from 9.5 million gallon per day (MGD) to 12 MGD average daily weather flow.
- Accommodate the anticipated wastewater treatment demands through approximately 2040; and
- Improve overall treatment reliability and operating efficiency at PGWWTP.

The Recipient must complete all planning, design, procurement, and construction of the following facilities within the existing PGWWTP:

- four primary clarifiers with odor control facilities and an electrical building;

- a solid's thickening building;
- sludge pumping systems;
- two anaerobic digesters;
- a digester control building;
- a waste gas burner;
- conversion of an existing waste activated sludge (WAS) holding tank to a concentrate storage tank;
- conversion of an existing WAS holding tank to a digested sludge holding tank/secondary digester; and
- ancillary facilities.

9. Signage.

The Recipient shall place a sign at least four feet tall by eight feet wide made of ¾ inch thick exterior grade plywood or other approved material in a prominent location on the Project site and shall maintain the sign in good condition for the duration of the construction period. The sign must include the following disclosure statement and color logos (available from the Division):



"Funding for this Pleasant Grove Wastewater Treatment Plant Expansion and Energy Recovery Project Phase 1 project has been provided in full or in part by the Clean Water State Revolving Fund through an agreement with the State Water Resources Control Board. California's Clean Water State Revolving Fund is capitalized through a variety of funding sources, including grants from the United States Environmental Protection Agency and state bond proceeds."

The Project sign may include another agency's required promotional information so long as the above logos and disclosure statement are equally prominent on the sign. The sign shall be prepared in a professional manner.

The Recipient shall include the following disclosure statement in any document, written report, or brochure prepared in whole or in part pursuant to this Agreement:

"Funding for this project has been provided in full or in part through an agreement with the State Water Resources Control Board. California's Clean Water State Revolving Fund is capitalized through a variety of funding sources, including grants from the United States Environmental Protection Agency and state bond proceeds. The contents of this document do not necessarily reflect the views and policies of the foregoing, nor does mention of trade names or commercial products constitute endorsement or recommendation for use."

EXHIBIT A-FBA – FINAL BUDGET APPROVAL

Table 1: Approved Construction Bid Amount

CONTRACTOR	AMOUNT BID	APPROVED COSTS
W.M. Lyles	$54,400,000	$54,400,000

1 - BUDGET

Table 2: Approved Final Project Budget

PROJECT COST TABLE	
TYPE OF WORK	APPROVED BUDGET
A. Construction	
W.M. Lyles	$54,400,000
B. Pre-Purchased Material/Equipment	$0
C. Land Purchase	$0
D. Change Order Contingency	$8,200,000
E. Allowances	
Planning	$0
Design	$4,885,000
Construction Management	$10,062,000
Administration	$800,000
Value Engineering	$0
Subtotal - E	$15,747,000
TOTAL (Subtotal A+B+C+D+E)	$78,347,000

Note: Adjustments may be made between line items on the final request for disbursement.

EXHIBIT A-FBA – FINAL BUDGET APPROVAL

2 - PROJECT ELIGIBILITY DETERMINATION

The eligibility determinations and conditions of approval identified below are based on the review of:

- Stamped and Signed Final Plan and Specifications (P&S) for the Project received April 28, 2020, dated October 2018;
- Addenda Nos. 1, 2, 3, 4, and 5, issued June 17, 2019, June 26, 2019, July 3, 2019, July 12, 2019, and July 22, 2019, respectively.

The eligibility determination for the bid items shown in the schedule of values provided by the Recipient are as follows:

Table 3: Eligibility Determination Agreement:

Bid Item	Description	Percent Eligibility
1	General Requirements	100%
2	Site Work	100%
3	Concrete	100%
4	Masonry	100%
5	Metals	100%
6	Wood & Plastics	100%
7	Thermal & Moisture Protection	100%
8	Doors & Windows	100%
9	Finishes	100%
10	Specialties	100%
11	Equipment	100%
12	Furnishings	100%
13	Special Construction	100%
14	Conveying Systems	100%
15	Piping & Mechanical	100%
16	Electrical & Instrumentation	100%
17	Supervision	100%

Bid items as shown in the schedule of values provided by the Recipient

EXHIBIT A-FBA – FINAL BUDGET APPROVAL

Eligibility Determination Conditions of Approval

1. Necessary insurance directly related to the construction contract and extending throughout the period of the construction contract will be eligible for CWSRF financing. This includes builder risk insurance, public liability insurance, fire, and Project specific insurance.
2. Earthquake insurance and “Act of God” insurance are ineligible for funding.
3. The cost of local permits and licenses other than those issued by the Recipient are eligible for CWSRF financing.
4. The approved change order contingency may not be increased above the approved contingency shown in Table 2. Any unclaimed construction or allowance costs may also be used towards construction change orders. The change order approval may not: (1) increase the maximum amount of the financing agreement based on Table 2: Approved Final Project Budget, (2) increase the term of the financing agreement, or (3) result in a substantial change in the Project scope.
5. Review of the P&S by the Division is conducted to determine eligibility and administrative compliance with the Policy. Issuance of the FBA does not relieve the Recipient and the design engineer of their legal liability for the adequacy of the design.

EXHIBIT B – FUNDING AMOUNT

1. Reasonable Cost. The reasonable cost of the total Project, including associated planning and design costs is seventy-eight million three hundred forty-seven thousand dollars and no cents ($78,347,000.00).

2. Project Financing. Subject to the terms of this Agreement, the State Water Board agrees to provide Project Funds in the amount of up to seventy-eight million three hundred forty-seven thousand dollars and no cents ($78,347,000.00).

3. Payment, Interest Rate, and Charges. The Recipient agrees to make all Installment Payments according to the schedule in Exhibit C at an interest rate of one three tenths percent (1.3%) per annum. In lieu of, and not to exceed, interest otherwise due under this Agreement, the Recipient agrees to pay the following charge(s), as further set forth in Exhibit C:

    - an Administrative Service Charge
    - a Small Community Grant Fund Charge

4. Useful Life. The useful life of this Project is at least thirty (30) years.

5. The Final Repayment Date is ~~June 10, 2052~~**July 3, 2053**.

6. Budget costs are contained in the Project Cost Table, which is part of Exhibit A-FBA.

7. Preliminary budget costs are as follows:

Construction costs and disbursements are not available until after this Agreement has been amended to incorporate Exhibit A-FBA. Construction costs incurred prior to the Eligible Start Date are not eligible for reimbursement. Failure to begin construction according to the timelines set forth in Exhibit A may require the Recipient to repay to the State Water Board all disbursed Project Funds, including planning and design allowances.

EXHIBIT C – PAYMENT SCHEDULE

See the attached preliminary Payment Schedule. The final Payment Schedule will be forwarded to the Recipient after all disbursements have been paid and construction of the Project has been completed.

California CWSRF Payment Schedule

Principal is paid over: **30 Years**

Interest rate: **1.30000%**

Project No. 8215-110 - Roseville, City of
Agreement: D1901013 - based on Projected Disbursements

Pleasant Grove Wastewater Treatment Plant Expansion and Energy Recovery Project phase 1

Ref Num	Due Date	Date Received	Principal Payment	Interest Rate%	Interest Payment	Total P and I Payment	Total Payment	Ending Balance	CPI Interest
1	7/3/2024		2,161,274.42	1.300	1,009,144.09	3,170,418.51	3,170,418.51	76,191,373.25	155.78
2	7/3/2025		2,179,930.66	1.300	990,487.85	3,170,418.51	3,170,418.51	74,011,442.59	157.13
3	7/3/2026		2,208,269.76	1.300	962,148.75	3,170,418.51	3,170,418.51	71,803,172.83	159.17
4	7/3/2027		2,236,977.26	1.300	933,441.25	3,170,418.51	3,170,418.51	69,566,195.57	161.24
5	7/3/2028		2,266,057.97	1.300	904,360.54	3,170,418.51	3,170,418.51	67,300,137.60	163.34
6	7/3/2029		2,295,516.72	1.300	874,901.79	3,170,418.51	3,170,418.51	65,004,620.88	165.46
7	7/3/2030		2,325,358.44	1.300	845,060.07	3,170,418.51	3,170,418.51	62,679,262.44	167.61
8	7/3/2031		2,355,588.10	1.300	814,830.41	3,170,418.51	3,170,418.51	60,323,674.34	169.79
9	7/3/2032		2,386,210.74	1.300	784,207.77	3,170,418.51	3,170,418.51	57,937,463.60	172.00
10	7/3/2033		2,417,231.48	1.300	753,187.03	3,170,418.51	3,170,418.51	55,520,232.12	174.23
11	7/3/2034		2,448,655.49	1.300	721,763.02	3,170,418.51	3,170,418.51	53,071,576.63	176.50
12	7/3/2035		2,480,488.01	1.300	689,930.50	3,170,418.51	3,170,418.51	50,591,088.62	178.79
13	7/3/2036		2,512,734.36	1.300	657,684.15	3,170,418.51	3,170,418.51	48,078,354.26	181.12
14	7/3/2037		2,545,399.90	1.300	625,018.61	3,170,418.51	3,170,418.51	45,532,954.36	183.47
15	7/3/2038		2,578,490.10	1.300	591,928.41	3,170,418.51	3,170,418.51	42,954,464.26	185.86
16	7/3/2039		2,612,010.47	1.300	558,408.04	3,170,418.51	3,170,418.51	40,342,453.79	188.28
17	7/3/2040		2,645,966.61	1.300	524,451.90	3,170,418.51	3,170,418.51	37,696,487.18	190.72
18	7/3/2041		2,680,364.18	1.300	490,054.33	3,170,418.51	3,170,418.51	35,016,123.00	193.20
19	7/3/2042		2,715,208.91	1.300	455,209.60	3,170,418.51	3,170,418.51	32,300,914.09	195.71
20	7/3/2043		2,750,506.63	1.300	419,911.88	3,170,418.51	3,170,418.51	29,550,407.46	198.26
21	7/3/2044		2,786,263.21	1.300	384,155.30	3,170,418.51	3,170,418.51	26,764,144.25	200.84
22	7/3/2045		2,822,484.63	1.300	347,933.88	3,170,418.51	3,170,418.51	23,941,659.62	203.45
23	7/3/2046		2,859,176.93	1.300	311,241.58	3,170,418.51	3,170,418.51	21,082,482.69	206.09
24	7/3/2047		2,896,346.24	1.300	274,072.27	3,170,418.51	3,170,418.51	18,186,136.45	208.77
25	7/3/2048		2,933,998.74	1.300	236,419.77	3,170,418.51	3,170,418.51	15,252,137.71	211.48
26	7/3/2049		2,972,140.72	1.300	198,277.79	3,170,418.51	3,170,418.51	12,279,996.99	214.23
27	7/3/2050		3,010,778.55	1.300	159,639.96	3,170,418.51	3,170,418.51	9,269,218.44	217.02
28	7/3/2051		3,049,918.67	1.300	120,499.84	3,170,418.51	3,170,418.51	6,219,299.77	219.84
29	7/3/2052		3,089,567.61	1.300	80,850.90	3,170,418.51	3,170,418.51	3,129,732.16	222.70
30	7/3/2053		3,129,732.16	1.300	40,686.52	3,170,418.68	3,170,418.68	0.00	225.59
			78,352,647.67		**16,759,907.80**	**95,112,555.47**	**95,112,555.47**		**5,647.67**

EXHIBIT D – SPECIAL CONDITIONS

Recipient acknowledges and agrees to the following special conditions:

Environmental:

The documents identified below are incorporated by reference and the Recipient shall comply with the conditions and recommendations therein:

1. The adopted November 7, 2018 Mitigation Monitoring and Reporting Program, including, but not limited to, the following mitigation measures:

    - 3.4-1 for biological resources, and
    - 3.5-1 and 3.5-2 for cultural resources.

The Recipient shall make no changes in the Project, construction area, or Special Conditions, without obtaining the appropriate and necessary prior approval(s) from the State Water Board.

REPORTING TO THE STATE WATER BOARD

1. In its status reports submitted pursuant to this Agreement, the Recipient shall include a discussion of the status of its compliance with environmental measures identified in this Exhibit D.

2. In its Project Completion Report submitted pursuant to this Agreement, the Recipient shall include a discussion of compliance with environmental measures identified in this Exhibit D.

Legal

1. As a condition precedent to this Agreement, the Recipient must deliver an opinion of bond counsel and general counsel satisfactory to the State Water Board's counsel.

2. As a condition precedent to this Agreement, the Recipient must deliver to the Division a resolution authorizing this Agreement.

3. **Russian Sanctions.**

    The Recipient represents that the Recipient is not a target of economic sanctions imposed in response to Russia's actions in Ukraine imposed by the United States government or the State of California. The Recipient is required to comply with the economic sanctions imposed in response to Russia's actions in Ukraine, including with respect to, but not limited to, the federal executive orders identified in California Executive Order N-6-22, located at https://www.gov.ca.gov/wp-content/uploads/2022/03/3.4.22-Russia-Ukraine-Executive-Order.pdf and the sanctions identified on the United States Department of the Treasury website (https://home.treasury.gov/policy-issues/financial-sanctions/sanctions-programs-and-country-information/ukraine-russia-related-sanctions). The Recipient is required to comply with all applicable reporting requirements regarding compliance with the economic sanctions, including, but not limited to, those reporting requirements set forth in California Executive Order N-6-22 for all Recipients with one or more agreements with the State of California with an aggregated value of Five Million Dollars ($5,000,000) or more. Notwithstanding any other provision in this Agreement, failure to comply with the economic sanctions and all applicable reporting requirements may result in termination of this Agreement.

EXHIBIT D – SPECIAL CONDITIONS

For Recipients with an aggregated agreement value of Five Million Dollars ($5,000,000) or more with the State of California, reporting requirements include, but are not limited to, information related to steps taken in response to Russia's actions in Ukraine, including but not limited to:

1. **Desisting from making any new investments or engaging in financial transactions with Russian institutions or companies that are headquartered or have their principal place of business in Russia;**

2. **Not transferring technology to Russia or companies that are headquartered or have their principal place of business in Russia; and**

3. **Direct support to the government and people of Ukraine.**

EXHIBIT E – PROGRAMMATIC CONDITIONS & CROSS-CUTTERS

The Recipient agrees to comply with the following federal conditions:

(A) Federal Award Conditions

(1) American Iron and Steel. Unless the Recipient has obtained a waiver from USEPA on file with the State Water Board or unless this Project is not a project for the construction, alteration, maintenance or repair of a public water system or treatment work, the Recipient shall not purchase “iron and steel products” produced outside of the United States on this Project. Unless the Recipient has obtained a waiver from USEPA on file with the State Water Board or unless this Project is not a project for the construction, alteration, maintenance or repair of a public water system or treatment work, the Recipient hereby certifies that all “iron and steel products” used in the Project were or will be produced in the United States. For purposes of this section, the term "iron and steel products" means the following products made primarily of iron or steel: lined or unlined pipes and fittings, manhole covers and other municipal castings, hydrants, tanks, flanges, pipe clamps and restraints, valves, structural steel, reinforced precast concrete, and construction materials. “Steel” means an alloy that includes at least 50 percent iron, between .02 and 2 percent carbon, and may include other elements.

(2) Wage Rate Requirements (Davis-Bacon). The Recipient shall include in full the language provided in Exhibit G of this Agreement in all contracts and subcontracts.

(3) Signage Requirements. The Recipient shall comply with the USEPA’s Guidelines for Enhancing Public Awareness of SRF Assistance Agreements, dated June 3, 2015, as otherwise specified in this Agreement.

(4) Public or Media Events. The Recipient shall notify the State Water Board and the EPA contact as provided in the notice provisions of this Agreement of public or media events publicizing the accomplishment of significant events related to this Project and provide the opportunity for attendance and participation by federal representatives with at least ten (10) working days’ notice.

(5) EPA General Terms and Conditions (USEPA GTCs). The Recipient shall comply with applicable EPA general terms and conditions found at http://www.epa.gov/ogd, including but not limited to the following:

(a) DUNS. No Recipient may receive funding under this Agreement unless it has provided its DUNS number to the State Water Board.

(b) Executive Compensation. The Recipient shall report the names and total compensation of each of its five most highly compensated executives for the preceding completed fiscal year, as set forth in the USEPA GTCs.

(b) Federal Exclusion or Disqualification. The Recipient represents and warrants that it and its principals are not excluded or disqualified from participating in this transaction as such terms are defined in Parts 180 and 1532 of Title 2 of the Code of Federal Regulations (2 CFR). If the Recipient is excluded after execution of this Agreement, the Recipient shall notify the Division within ten (10) days and shall inform the Division of the Recipient’s exclusion in any request for amendment of this Agreement. The Recipient shall comply with Subpart C of Part 180 of 2 CFR, as supplemented by Subpart C of Part 1532 of 2 CFR. Such

compliance is a condition precedent to the State Water Board's performance of its obligations under this Agreement. When entering into a covered transaction as defined in Parts 180 and 1532 of 2 CFR, the Recipient shall require the other party to the covered transaction to comply with Subpart C of Part 180 of 2 CFR, as supplemented by Subpart C of Part 1532 of 2 CFR.

(d) Conflict of Interest. To the extent applicable, the Recipient shall disclose to the State Water Board any potential conflict of interest consistent with USEPA's Final Financial Assistance Conflict of Interest Policy at https://www.epa.gov/grants/epas-final-financial-assistance-conflict-interest-policy. A conflict of interest may result in disallowance of costs.

(e) Copyright and Patent.

i. USEPA and the State Water Board have the right to reproduce, publish, use and authorize others to reproduce, publish and use copyrighted works or other data developed under this assistance agreement.
ii. Where an invention is made with Project Funds, USEPA and the State Water Board retain the right to a worldwide, nonexclusive, nontransferable, irrevocable, paid-up license to practice the invention owned by the Recipient. The Recipient must utilize the Interagency Edison extramural invention reporting system at http://iEdison.gov and shall notify the Division when an invention report, patent report, or utilization report is filed.

(f) Credit. The Recipient agrees that any reports, documents, publications or other materials developed for public distribution supported by this Agreement shall contain the following statement:

"This project has been funded wholly or in part by the United States Environmental Protection Agency and the State Water Resources Control Board. The contents of this document do not necessarily reflect the views and policies of the Environmental Protection Agency or the State Water Resources Control Board, nor does the EPA or the Board endorse trade names or recommend the use of commercial products mentioned in this document."

(g) Electronic and Information Technology Accessibility. The Recipient is encouraged to follow guidelines established under Section 508 of the Rehabilitation Act, codified at 36 CFR Part 1194, with respect to enabling individuals with disabilities to participate in its programs supported by this Project.

(g) Trafficking in Persons. The Recipient, its employees, contractors and subcontractors and their employees may not engage in severe forms of trafficking in persons, procure a commercial sex act during the term of this Agreement, or use forced labor in the performance of this Agreement. The Recipient must include this provision in its contracts and subcontracts under this Agreement. The Recipient must inform the State Water Board immediately of any information regarding a violation of the foregoing. The Recipient understands that failure to comply with this provision may subject the State Water Board to loss of federal funds. The Recipient agrees to compensate the State Water Board for any such funds lost due to its failure to comply with this condition, or the failure of its contractors or subcontractors to comply with this condition. The State Water Board may unilaterally terminate this Agreement if the Recipient that is a private entity is determined to have violated the foregoing. Trafficking Victims Protection Act of 2000.

EXHIBIT E – PROGRAMMATIC CONDITIONS & CROSS-CUTTERS

(B) Super Cross-Cutters - Civil Rights Obligations. The Recipient must comply with the following federal non-discrimination requirements:

(1) Title VI of the Civil Rights Act of 1964, which prohibits discrimination based on race, color, and national origin, including limited English proficiency (LEP).

(2) Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination against persons with disabilities.

(3) The Age Discrimination Act of 1975, which prohibits age discrimination.

(4) Section 13 of the Federal Water Pollution Control Act Amendments of 1972, which prohibits discrimination on the basis of sex.

(5) 40 CFR Part 7, as it relates to the foregoing.

(C) WRRDA Conditions

(1) Architectural and engineering contracts. Where the Recipient contracts for program management, construction management, feasibility studies, preliminary engineering, design, engineering, surveying, mapping, or architectural related services, the Recipient shall ensure that any such contract is negotiated in the same manner as a contract for architectural and engineering services is negotiated under chapter 11 of title 40, United States Code, or an equivalent State qualifications-based requirement as determined by the State Water Board.

(2) Fiscal sustainability. The Recipient certifies that it has developed and is implementing a fiscal sustainability plan for the Project that includes an inventory of critical assets that are a part of the Project, an evaluation of the condition and performance of inventoried assets or asset groupings, a certification that the recipient has evaluated and will be implementing water and energy conservation efforts as part of the plan, and a plan for maintaining, repairing, and, as necessary, replacing the Project and a plan for funding such activities.

(D) Cross-Cutters

1) Executive Order No. 11246. The Recipient shall include in its contracts and subcontracts related to the Project the following provisions:

"During the performance of this contract, the contractor agrees as follows:"(a) The contractor will not discriminate against any employee or applicant for employment because of race, creed, color, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, creed, color, or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.

"(b) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, color, or national origin.

"(c) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under Section 202 of Executive Order No. 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

"(d) The contractor will comply with all provisions of Executive Order No. 11246 of Sept. 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

"(e) The contractor will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

"(f) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be cancelled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order No. 11246 of Sept 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order No. 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

"(g) The contractor will include the provisions of Paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order No. 11246 of Sept. 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the contracting agency may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, That in the event the contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States."

(2) Disadvantaged Business Enterprises (40 CFR Part 33). The Recipient agrees to comply with the requirements of USEPA's Program for Utilization of Small, Minority and Women's Business Enterprises. The DBE rule can be accessed at www.epa.gov/osbp . The Recipient shall comply with, and agrees to require its prime contractors to comply with 40 CFR Section 33.301, and retain all records documenting compliance with the six good faith efforts. (IUP)

(3) Procurement Prohibitions under Section 306 of the Clean Air Act and Section 508 of the Clean Water Act, including Executive Order 11738, Administration of the Clean Air Act and the Federal Water Pollution Control Act with Respect to Federal Contracts, Grants, or Loans; 42 USC § 7606; 33 USC § 1368. Except where the purpose of this Agreement is to remedy the cause of the violation, the Recipient may not procure goods, services, or materials from suppliers excluded under the federal System for Award Management: http://www.sam.gov/ .

(4) Uniform Relocation and Real Property Acquisition Policies Act, Pub. L. 91-646, as amended; 42 USC §§4601-4655. The Recipient must comply with the Act's implementing regulations at 49 CFR 24.101 through 24.105.

(5) The Recipient agrees that if its network or information system is connected to USEPA networks to transfer data using systems other than the Environmental Information Exchange Network or USEPA's Central Data Exchange, it will ensure that any connections are secure.

(E) Geospatial Data Standards

All geospatial data created pursuant to this Agreement that is submitted to the State Water Board for use by USEPA or that is submitted directly to USEPA must be consistent with Federal Geographic Data Committee endorsed standards. Information on these standards may be found at www.fgdc.gov.

EXHIBIT F – SCHEDULE OF SYSTEM OBLIGATIONS

Except for the following and the Obligation evidenced by this Agreement, the Recipient certifies that it has no outstanding System Obligations or Other Material Obligations, and that it is in compliance with all applicable additional debt provisions of the following:

The following outstanding debt is senior to the Obligation:

Title
None

The following outstanding debt is on parity with the Obligation:

Title
Amended and Restated Funding Agreement Relating to the South Placer Regional Wastewater Facilities, dated as of October 1, 2012, by and between the City of Roseville and the South Placer Wastewater Authority for the purposes of securing the Recipient's portion of the following debts of the South Placer Wastewater Authority: SWAP – Morgan Stanley, 2011C – BNY, 2013 – US Bank, and 2017 – US Bank.

The following outstanding debt is subordinate to the Obligation:

Title
None

EXHIBIT G – DAVIS-BACON REQUIREMENTS

For purposes of this Exhibit only, "subrecipient" or "sub recipient" means the Recipient as defined in this Agreement.

For purposes of this Exhibit only, "recipient" or "State recipient" means the State Water Board.

I. Requirements Under The Water Resources Reform and Development Act of 2014 (WRRDA) For Sub recipients That Are Governmental Entities:

If a sub recipient has questions regarding when DB applies, obtaining the correct DB wage determinations, DB provisions, or compliance monitoring, it may contact the State Water Board at DavisBacon@waterboards.ca.gov or phone (916) 327-7323. The recipient or sub recipient may also obtain additional guidance from DOL's website at http://www.dol.gov/whd/.

1. Applicability of the Davis- Bacon (DB) prevailing wage requirements.
Under the Water Resources Reform and Development Act of 2014 (WRRDA), DB prevailing wage requirements apply to the construction, alteration, and repair of treatment works carried out in whole or in part with assistance made available by a State water pollution control revolving fund. If a sub recipient encounters a unique situation at a site that presents uncertainties regarding DB applicability, the sub recipient must discuss the situation with the recipient State before authorizing work on that site.

2. Obtaining Wage Determinations.
(a) Sub recipients shall obtain the wage determination for the locality in which a covered activity subject to DB will take place prior to issuing requests for bids, proposals, quotes or other methods for soliciting contracts (solicitation) for activities subject to DB. These wage determinations shall be incorporated into solicitations and any subsequent contracts. Prime contracts must contain a provision requiring that subcontractors follow the wage determination incorporated into the prime contract.

(i) While the solicitation remains open, the sub recipient shall monitor www.wdol.gov weekly to ensure that the wage determination contained in the solicitation remains current. The sub recipients shall amend the solicitation if DOL issues a modification more than 10 days prior to the closing date (i.e. bid opening) for the solicitation. If DOL modifies or supersedes the applicable wage determination less than 10 days prior to the closing date, the sub recipients may request a finding from the State recipient that there is not a reasonable time to notify interested contractors of the modification of the wage determination. The State recipient will provide a report of its findings to the sub recipient.

(ii) If the sub recipient does not award the contract within 90 days of the closure of the solicitation, any modifications or supersedes DOL makes to the wage determination contained in the solicitation shall be effective unless the State recipient, at the request of the sub recipient, obtains an extension of the 90 day period from DOL pursuant to 29 CFR 1.6(c)(3)(iv). The sub recipient shall monitor www.wdol.gov on a weekly basis if it does not award the contract within 90 days of closure of the solicitation to ensure that wage determinations contained in the solicitation remain current.

(b) If the sub recipient carries out activity subject to DB by issuing a task order, work assignment or similar instrument to an existing contractor (ordering instrument) rather than by publishing a solicitation, the sub recipient shall insert the appropriate DOL wage determination from www.wdol.gov into the ordering instrument.

(c) Sub recipients shall review all subcontracts subject to DB entered into by prime contractors to verify that the prime contractor has required its subcontractors to include the applicable wage determinations.

(d) As provided in 29 CFR 1.6(f), DOL may issue a revised wage determination applicable to a sub recipient's contract after the award of a contract or the issuance of an ordering instrument if DOL determines that the sub recipient has failed to incorporate a wage

determination or has used a wage determination that clearly does not apply to the contract or ordering instrument. If this occurs, the sub recipient shall either terminate the contract or ordering instrument and issue a revised solicitation or ordering instrument or incorporate DOL's wage determination retroactive to the beginning of the contract or ordering instrument by change order. The sub recipient's contractor must be compensated for any increases in wages resulting from the use of DOL's revised wage determination.

3. Contract and Subcontract provisions.

(a) The Recipient shall insure that the sub recipient(s) shall insert in full in any contract in excess of $2,000 which is entered into for the actual construction, alteration and/or repair, including painting and decorating, of a treatment work under the CWSRF - financed in whole or in part from Federal funds or in accordance with guarantees of a Federal agency or financed from funds obtained by pledge of any contract of a Federal agency to make a loan, grant or annual contribution (except where a different meaning is expressly indicated), and which is subject to the labor standards provisions of any of the acts listed in § 5.1 or FY 2014 Water Resource Reform and Development Act, the following clauses:

(1) Minimum wages.

(i) All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (a)(1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in § 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph (a)(1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

Sub recipients may obtain wage determinations from the U.S. Department of Labor's web site, www.dol.gov.

(ii) (A) The sub recipient(s), on behalf of EPA, shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The State award official shall approve

a request for an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

1 The work to be performed by the classification requested is not performed by a classification in the wage determination; and

2 The classification is utilized in the area by the construction industry; and

3 The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the sub recipient(s) agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), documentation of the action taken and the request, including the local wage determination shall be sent by the sub recipient (s) to the State award official. The State award official will transmit the request, to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210 and to the EPA DB Regional Coordinator concurrently. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification request within 30 days of receipt and so advise the State award official or will notify the State award official within the 30-day period that additional time is necessary.

(C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the sub recipient(s) do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the award official shall refer the request and the local wage determination, including the views of all interested parties and the recommendation of the State award official, to the Administrator for determination. The request shall be sent to the EPA DB Regional Coordinator concurrently. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt of the request and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(ii)(B) or (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

(2) Withholding. The sub recipient(s), shall upon written request of the EPA Award Official or an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the

same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the (Agency) may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

(3) Payrolls and basic records.

(i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(ii) (A) The contractor shall submit weekly, for each week in which any contract work is performed, a copy of all payrolls to the sub recipient, that is, the entity that receives the sub-grant or loan from the State capitalization grant recipient. Such documentation shall be available on request of the State recipient or EPA. As to each payroll copy received, the sub recipient shall provide written confirmation in a form satisfactory to the State indicating whether or not the project is in compliance with the requirements of 29 CFR 5.5(a)(1) based on the most recent payroll copies for the specified week. The payrolls shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on the weekly payrolls. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at https://www.dol.gov/whd/forms/index.htm or its successor site.

The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the sub recipient(s) for transmission to the State or EPA if

requested by EPA, the State, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sub recipient(s).

(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

1 That the payroll for the payroll period contains the information required to be provided under § 5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under § 5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

2 That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

3 That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (a)(3)(ii)(B) of this section.

(D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under paragraph (a)(3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the State, EPA or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency or State may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

(4) Apprentices and trainees

(i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and

Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or sub contractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training

program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended and 29 CFR part 30.

(5) Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

(6) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the EPA determines may by appropriate, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

(7) Contract termination; debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

(8) Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

(9) Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and sub recipient(s), State, EPA, the U.S. Department of Labor, or the employees or their representatives.

(10) Certification of eligibility.

(i) By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

4. Contract Provision for Contracts in Excess of $100,000.

(a) Contract Work Hours and Safety Standards Act. The sub recipient shall insert the following clauses set forth in paragraphs (a)(1), (2), (3), and (4) of this section in full in any contract in an amount in excess of $100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by Item 3, above or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

(1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

(2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (a)(1) of this section the contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (a)(1) of this section, in the sum of $25 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (a)(1) of this section.

(3) Withholding for unpaid wages and liquidated damages. The sub recipient**,** upon written request of the EPA Award Official or an authorized representative of the Department of Labor, shall withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.

(4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (a)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (a)(1) through (4) of this section.

(b) In addition to the clauses contained in Item 3, above, in any contract subject only to the Contract Work Hours and Safety Standards Act and not to any of the other statutes cited in 29 CFR 5.1, the Sub recipient shall insert a clause requiring that the contractor or subcontractor shall maintain payrolls and basic payroll records during the course of the work and shall preserve them for a period of three years from the completion of the contract for all laborers and mechanics, including guards and watchmen, working on the contract. Such records shall contain the name and address of each such employee, social security number, correct classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. Further, the Sub recipient shall insert in any such contract a clause providing that the records to be maintained under this paragraph shall be made available by the contractor or subcontractor for inspection, copying, or transcription by authorized representatives of the (write the name of agency) and the Department of Labor, and the contractor or subcontractor will permit such representatives to interview employees during working hours on the job.

5. Compliance Verification

(a) The sub recipient shall periodically interview a sufficient number of employees entitled to DB prevailing wages (covered employees) to verify that contractors or subcontractors are paying the appropriate wage rates. As provided in 29 CFR 5.6(a)(3), all interviews must be conducted in confidence. The sub recipient must use Standard Form 1445 (SF 1445) or equivalent documentation to memorialize the interviews. Copies of the SF 1445 are available from EPA on request.

(b) The sub recipient shall establish and follow an interview schedule based on its assessment of the risks of noncompliance with DB posed by contractors or subcontractors and the duration of the contract or subcontract. Sub recipients must conduct more frequent interviews if the initial interviews or other information indicated that there is a risk that the contractor or subcontractor is not complying with DB.

Sub recipients shall immediately conduct interviews in response to an alleged violation of the prevailing wage requirements. All interviews shall be conducted in confidence.

(c) The sub recipient shall periodically conduct spot checks of a representative sample of weekly payroll data to verify that contractors or subcontractors are paying the appropriate wage rates. The sub recipient shall establish and follow a spot check schedule based on its assessment of the risks of noncompliance with DB posed by contractors or subcontractors and the duration of the contract or subcontract. At a minimum, if practicable, the sub recipient should spot check payroll data within two weeks of each contractor or subcontractor's submission of its initial payroll data and two weeks prior to the completion date the contract or subcontract. Sub recipients must conduct more frequent spot checks if the initial spot check or other information indicates that there is a risk that the contractor or subcontractor is not complying with DB. In addition, during the examinations the sub recipient shall verify evidence of fringe benefit plans and payments there under by contractors and subcontractors who claim credit for fringe benefit contributions.

(d) The sub recipient shall periodically review contractors and subcontractor's use of apprentices and trainees to verify registration and certification with respect to apprenticeship and training programs approved by either the U.S Department of Labor or a state, as appropriate, and that contractors and subcontractors are not using disproportionate numbers of, laborers, trainees and apprentices. These reviews shall be conducted in accordance with the schedules for spot checks and interviews described in Item 5(b) and (c) above.

(e) Sub recipients must immediately report potential violations of the DB prevailing wage requirements to the EPA DB contact listed above and to the appropriate DOL Wage and Hour District Office listed at https://www.dol.gov/whd/local/.

EXHIBIT G – DAVIS-BACON REQUIREMENTS

1. CALIFORNIA DEBT INVESTMENT ADVISORY COMMISSION (CDIAC)

Where Recipient is a public entity, Recipient acknowledges its responsibility to file debt obligations with the CDIAC. Recipient understands that CDIAC has waived filing fees for State Water Board SRF debt.

2. COMPLIANCE WITH STATE REQUIREMENTS

Recipient represents that it complies with the following conditions precedent and shall continue to maintain compliance:

(1) Water Conservation

The Recipient certifies that it complies with and shall continue to comply with any applicable water conservation requirements, including regulations in Division 3 of Title 23 of the California Code of Regulations.

(2) Monthly Water Diversion Reporting

If Recipient is a water diverter, Recipient must maintain compliance with Water Code section 5103, subdivision (e)(2)(A) by submitting monthly diversion reports to the Division of Water Rights of the State Water Resources Control Board.

(3) Public Works Contractor Registration with Department Of Industrial Relations

To bid for public works contracts, Recipient and Recipient's subcontractors must register with the Department of Industrial Relations as required by Labor Code sections 1725.5 and 1771.1.

(4) Volumetric Pricing & Water Meters

If Recipient is an "urban water supplier" as defined by Water Code section 10617, Recipient must charge each customer for actual water volume measured by water meter according to the requirements of Water Code sections 526 and 527. Section 527 further requires that such suppliers not subject to section 526 install water meters on all municipal and industrial service connections within their service area by 2025.

(5) Urban Water Management Plan

If Recipient is an "urban water supplier" as defined by Water Code section 10617, the Recipient certifies that this Project complies with the Urban Water Management Planning Act (Water Code, § 10610 et seq.). This shall constitute a condition precedent to this Agreement.

(6) Urban Water Demand Management

If Recipient is an "urban water supplier" as defined by Water Code section 10617, Recipient must comply with water conservation measures established by SBx7-7. (Water Code, Sec. 10608.56.)

(7) Delta Plan Consistency Findings

If Recipient is a state or local public agency and the proposed action is covered by the Delta Plan, Recipient must submit certification of project consistency with the Delta Plan to the Delta

Stewardship Council according to the requirements of Water Code section 85225 and California Code of Regulations, title 23, section 5002.

(8) Agricultural Water Management Plan Consistency

If Recipient is an agricultural water supplier as defined by Water Code section 10608.12, Recipient must comply with Agricultural Water Management Planning requirements as mandated by Water Code section 10852.

(9) Charter City Project Labor Requirements

If Recipient is a charter city as defined in Labor Code section 1782, subdivision (d)(2), Recipient will comply with the requirements of Labor Code section 1782 and Public Contract Code section 2503 as discussed in the following subparts (1) and (2).

(a) Prevailing Wage

Recipient certifies that it is eligible for state funding assistance notwithstanding Labor Code section 1782.

Specifically Recipient certifies that no charter provision nor ordinance authorizes a construction project contractor not to comply with Labor Code's prevailing wage rate requirements, nor, within the prior two years (starting from January 1, 2015 or after) has the city awarded a public works contract without requiring the contractor to comply with such wage rate requirements according to Labor Code section 1782.

(b) Labor Agreements

Recipient certifies that no charter provision, initiative, or ordinance limits or constrains the city's authority or discretion to adopt, require, or utilize project labor agreements that include all the taxpayer protection antidiscrimination provisions of Public Contract Code section 2500 in construction projects, and that Recipient is accordingly eligible for state funding or financial assistance pursuant to Public Contract Code section 2503.

COUNCIL COMMUNICATION

CC #: 2258
File #: 0800-02

Title:	Pleasant Grove Wastewater Treatment Plant Energy Recovery Project - Installment Sale Agreement Amendment
Contact:	Tracie Mueller 916-774-5688 trmueller@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.10.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council adopt a resolution authorizing the City Manager to execute the Clean Water State Revolving Fund (CWSRF) Installment Sale Agreement Amendment 2 for the low interest loan (1.3 percent) of $29,674,755 from the California State Water Resources Control Board (SWRCB) for the Pleasant Grove Wastewater Treatment Plant Energy Recovery Project.

BACKGROUND

The Pleasant Grove Wastewater Treatment Plant (PGWWTP) Energy Recovery Project is adding energy-recovery facilities that will beneficially utilize digester gas (which has a high methane fraction) produced by the new treatment processes constructed as part of the PGWWTP Expansion Project. The Energy Recovery Project includes the following facilities: microturbines which will produce electrical power to offset a portion of PGWWTP's power demand and will provide heat to the Expansion Project, receiving facility for High Strength Waste (such as pre-processed food waste and fats, oils and grease), systems for conditioning and upgrading the digester gas to produce renewable compressed natural gas r(CNG) to be used by the City's solid waste collection vehicles as fuel, a fueling station, and associated parking.

Construction of this project has already begun. The Energy Recovery Project construction is behind the scheduled completion in February 2022; therefore an amendment to the City's CWSRF Installment Sale Agreement for the low interest loan (1.3 percent) of $29,674,755 from the SWRCB is required. The CWSRF Installment Sale Agreement Amendment 2 extends the construction date from February 10, 2022, to January 31, 2023. Based on the current status of the construction projects at the PGWWTP, it is anticipated that the Energy Recovery Project will not be complete until after January 2023; however during a meeting held on June 22, 2022, the SWRCB requested that we approve the amendment with the date of January 31, 2023, and has stated they will process a third amendment to extend the date again at a later date (which will be processed through a separate council communication).

FISCAL IMPACT

The adoption of the CWSRF Installment Sale Agreement Amendment 2 initiates the financial commitments to repay the loans and repayment will be based on the amount of the loan used, which has not been revised in the amendment. 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; therefore resulting in no direct fiscal impact to the City.

The CWSRF interest rate of 1.3 percent is the lowest available financing option evaluated for SPWA to fund these projects.

ENVIRONMENTAL REVIEW

Implementation of the PGWWTP Energy Recovery Project was previously evaluated in the Pleasant Grove Wastewater Treatment Plant Expansion and Energy Recovery Project Final Initial Study/Mitigated Negative Declaration (IS/MND) (SCH# 2016122040) (certified by the City Council on April 6, 2017), and the Addendum to the IS/MND (SCH# 2016122040) (certified by the City Council on November 7, 2018). The improvement plans included in the design-assist and construction agreement are consistent with the project evaluated in the certified Final IS/MND and the Addendum, and consequently no additional CEQA action is required for approval of this amended CWSRF agreement.

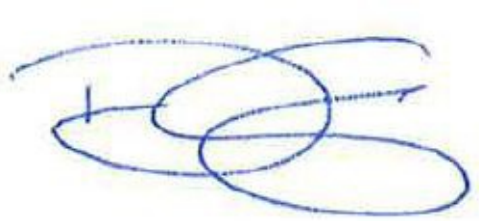
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Tracie Mueller, Senior Engineer

Richard Plecker, Environmental Utilities Director



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 22-321

RESOLUTION NO. 22-321

APPROVING AMENDMENT NO. 2 TO THE INSTALLMENT SALE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND CALIFORNIA STATE WATER RESOURCES CONTROL BOARD, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, Amendment No. 2 to the Installment Sale Agreement for the Pleasant Grove Wastewater Treatment Plant Energy Recovery project, by and between the City of Roseville and California State Water Resources Control Board, has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said Amendment is hereby 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 _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

June 15, 2022

City of Roseville
Attn: Dominick Casey, City Manager
311 Vernon Street
Roseville, CA 95678

Agreement Number: SWRCB0000000000D1901012
Project Number: C-06-8215-210

Enclosed is your amended Funding Agreement for your approval and signature. This Agreement cannot be considered binding by either party until executed by the State Water Resources Control Board ("State Water Board").

If in agreement with all terms and conditions of the Agreement, please have the Authorized Representative, as noted in the executed resolution, sign and return two (2) signature pages no later than thirty (30) calendar days from the date of this letter to:

US Mail

Amor Moskaira
State Water Resources Control Board
Division of Financial Assistance
P.O. Box 944212
Sacramento, CA 94244-2120

Overnight Mail

Amor Moskaira
State Water Resources Control Board
Division of Financial Assistance
1001 I Street, 16th Floor
Sacramento, CA 95814

Ms. Moskaira may be contacted at (916) 449-5627 or Amor.Moskaira@waterboards.ca.gov

Once the Agreement is signed by both parties, we will forward an executed copy to you for your entity's records.

Enclosures

Clean Water
State Revolving Fund

CITY OF ROSEVILLE

AND

CALIFORNIA STATE WATER RESOURCES CONTROL BOARD

CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

INSTALLMENT SALE AGREEMENT

PLEASANT GROVE WASTEWATER TREATMENT EXPANSION AND ENERGY RECOVERY PROJECT

PROJECT NO. C-06-8215-210

AGREEMENT SWRCB0000000000D1901012

AMENDMENT NO. 2

AMOUNT: $29,674,755.00

ELIGIBLE START DATE: MAY 3, 2019
COMPLETION OF CONSTRUCTION DATE: ~~FEBRUARY 10, 2022~~ **JANUARY 31, 2023**
FINAL DISBURSEMENT REQUEST DATE: ~~AUGUST 10, 2022~~**JULY 31, 2023**
FINAL REPAYMENT DATE: ~~FEBRUARY 10, 2052~~**JANUARY 31, 2053**
RECORDS RETENTION END DATE: ~~FEBRUARY 10, 2058~~ **JANUARY 31, 2059**

This Agreement executed by the State Water Board on June 15, 2020, and subsequently amended on August 11, 2021, is hereby amended and restated, to revise the cover page, the Agreement, and construction completion date, Exhibits A, B and C (deletions shown as stricken and revisions bold and underlined). Except as noted herein all other terms and conditions shall remain the same. Please note, that page numbers may have changed.

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WHEREAS,

1. The State Water Board is authorized to provide financial assistance under this Agreement pursuant to the following:

   - Chapter 6.5 of Division 7 of the California Water Code (State Act)

   - Title VI of the federal Water Pollution Control Act (Federal Act)

2. The State Water Board determines eligibility for financial assistance, determines a reasonable schedule for providing financial assistance, establishes compliance with the Federal Act and State Act, and establishes the terms and conditions of a financial assistance agreement.

3. The Recipient has applied to the State Water Board for financial assistance for the Project described in Exhibit A of this Agreement and the State Water Board has selected the application for financial assistance.

4. The State Water Board proposes to assist in providing financial assistance for eligible costs of the Project, and the Recipient desires to participate as a recipient of financial assistance from the State Water Board and evidence its obligation to pay Installment Payments, which obligation will be secured by Net Revenues as defined herein, upon the terms and conditions set forth in this Agreement, all pursuant to the Federal Act and the State Act.

NOW, THEREFORE, in consideration of the mutual representations, covenants and agreements herein set forth, the State Water Board and the Recipient, each binding itself, its successors and assigns, do mutually promise, covenant, and agree as follows:

Subject to the satisfaction of any conditions precedent to this Agreement, this Agreement shall become effective upon the signature of both the Recipient and the State Water Board.

Upon execution, the term of the Agreement shall begin on the Eligible Start Date and extend through the Final Repayment Date.

ARTICLE I DEFINITIONS

1.1 Definitions.

Unless otherwise specified, each capitalized term used in this Agreement has the following meaning:

"Additional Payments" means the Additional Payments described in Section 3.2(c) of this Agreement.

"Agreement" means this Installment Sale Agreement, including all exhibits and attachments.

"Allowance" means an amount based on a percentage of the accepted bid for an eligible project to help defray the planning, design, and construction engineering and administration costs of the Project.

"Authorized Representative" means the duly appointed representative of the Recipient as set forth in the certified original of the Recipient’s authorizing resolution that designates the authorized representative by title.

"Bank" means the California Infrastructure and Economic Development Bank.

“Bond Funded Portion of the Project Funds” means any portion of the Project Funds which was or will be funded with Bond Proceeds.

“Bond Proceeds” means original proceeds, investment proceeds, and replacement proceeds of Bonds.

"Bonds" means any series of bonds issued by the Bank, the interest on which is excluded from gross income for federal tax purposes, all or a portion of the proceeds of which have been, are, or will be applied by the State Water Board to fund all or any portion of the Project Costs or that are secured in whole or in part by Installment Payments paid hereunder.

“Charge In Lieu of Interest” means any fee or charge in lieu of some or all of, but not to exceed, the interest that would otherwise be owed under this Agreement, as set forth in Exhibit C.

"Code" as used in Article V of this Agreement means the Internal Revenue Code of 1986, as amended, and any successor provisions and the regulations of the U.S. Department of the Treasury promulgated thereunder.

"Completion of Construction" means the date, as determined by the Division after consultation with the Recipient, that the work of building and erection of the Project is substantially complete, and is identified in Exhibit A of this Agreement.

“CWSRF” means the Clean Water State Revolving Fund.

“Days” means calendar days unless otherwise expressly indicated.

“Debt Service” means, as of any date, with respect to outstanding System Obligations and, in the case of the additional debt tests in Section 3.7 of this Agreement, any System Obligations that are proposed to be outstanding, the aggregate amount of principal and interest scheduled to become due (either at maturity or by mandatory redemption), together with any Charge In Lieu of Interest on this Obligation or other System Obligations to the State Water Board, calculated with the following assumptions:

a. Principal payments (unless a different subdivision of this definition applies for purposes of determining principal maturities or amortization) are made in accordance with any amortization schedule published for such principal, including any minimum sinking fund payments;

b. Interest on a variable rate System Obligation that is not subject to a swap agreement and that is issued or will be issued as a tax-exempt obligation under federal law, is the average of the SIFMA Municipal Swap Index, or its successor index, during the 24 months preceding the date of such calculation;

c. Interest on a variable rate System Obligation that is not subject to a swap agreement and that is issued or will be issued as a taxable obligation under federal law, is the average of LIBOR, or its successor index, during the 24 months preceding the date of such calculation;

d. Interest on a variable rate System Obligation that is subject to a swap agreement is the fixed swap rate or cap strike rate, as appropriate, if the variable rate has been swapped to a fixed rate or capped pursuant to an interest rate cap agreement or similar agreement;

e. Interest on a fixed rate System Obligation that is subject to a swap agreement such that all or a portion of the interest has been swapped to a variable rate shall be treated as variable rate debt under subdivisions (b) or (c) of this definition of Debt Service;

f. Payments of principal and interest on a System Obligation are excluded from the calculation of Debt Service to the extent such payments are to be paid from amounts then currently on deposit with a trustee or other fiduciary and restricted for the defeasance of such System Obligations;

g. If 25% or more of the principal of a System Obligation is not due until its final stated maturity, then principal and interest on that System Obligation may be projected to amortize over the lesser of 30 years or the useful life of the financed asset, and interest may be calculated according to subdivisions (b)-(e) of this definition of Debt Service, as appropriate.

“Deputy Director” means the Deputy Director of the Division.

"Division" means the Division of Financial Assistance of the State Water Board or any other segment of the State Water Board authorized to administer this Agreement.

“Eligible Start Date” means the date set forth in Exhibit B, establishing the date on or after which construction costs may be incurred and eligible for reimbursement hereunder.

“Enterprise Fund” means the enterprise fund of the Recipient in which Revenues are deposited.

“Event of Default” means the occurrence of any of the following events:

a) Failure by the Recipient to pay Installment Payments when due, or failure to make any other payment required to be paid pursuant to this Agreement;
b) A representation or warranty made by or on behalf of the Recipient in this Agreement or in any document furnished by or on behalf of the Recipient to the State Water Board pursuant to this Agreement shall prove to have been inaccurate, misleading or incomplete in any material respect;
c) A material adverse change in the condition of the Recipient, the Revenues, or the System, which the Division reasonably determines would materially impair the Recipient’s ability to satisfy its obligations under this Agreement.
d) Failure by the Recipient to comply with the additional debt test or reserve fund requirement, if any, in Section 3.7 or Exhibit D of this Agreement;
e) Failure to operate the System or the Project without the Division’s approval;
f) Failure by the Recipient to observe and perform any covenant, condition, or provision in this Agreement, which failure shall continue for a period of time, to be determined by the Division;
g) The occurrence of a material breach or event of default under any System Obligation that results in the acceleration of principal or interest or otherwise requires immediate prepayment, repurchase or redemption;
h) Initiation of proceedings seeking arrangement, reorganization, or any other relief under any applicable bankruptcy, insolvency, or other similar law; the appointment of or taking possession of the Recipient’s property by a receiver, liquidator, assignee, trustee, custodian, conservator, or similar official; the Recipient’s entering into a general assignment for the benefit of creditors; the initiation of resolutions or proceedings to terminate the Recipient’s existence, or any action in furtherance of any of the foregoing;
i) A determination pursuant to Gov. Code section 11137 that the Recipient has violated any provision in Article 9.5 of Chapter 1 of Part 1 of Division 3 of Title 2 of the Government Code;

“Final Disbursement Request Date” means the date established in Exhibit A, after which date, no further Project Funds disbursements may be requested.

“Final Repayment Date” is the date by which all principal and accrued interest due under this Agreement is to be paid in full to the State Water Board and is specified in Exhibit B and Exhibit C.

"Fiscal Year" means the period of twelve (12) months terminating on June 30 of any year, or any other annual period selected and designated by the Recipient as its Fiscal Year in accordance with applicable law.

"Force Account" means the use of the Recipient's own employees or equipment.

“GAAP” means generally accepted accounting principles, the uniform accounting and reporting procedures set forth in publications of the American Institute of Certified Public Accountants or its successor, or by any other generally accepted authority on such procedures, and includes, as applicable, the standards set forth by the Governmental Accounting Standards Board or its successor.

"Initiation of Construction" means the date that notice to proceed with work is issued for the Project, or, if notice to proceed is not required, the date of commencement of building and erection of the Project.

"Installment Payment" means any payment due to the State Water Board from the Recipient pursuant to Section 3.2 of this Agreement, as set forth in Exhibit C.

“Listed Event” means, so long as the Recipient has outstanding any System Obligation subject to Rule 15c2-12, any of the events required to be reported pursuant to Rule 15c2-12(b)(5).

“Maximum Annual Debt Service” means the maximum amount of Debt Service due on System Obligations in any Fiscal Year during the period commencing with the Fiscal Year for which such calculation is made and terminating with the last Fiscal Year in which Debt Service for any System Obligations will become due.

"Net Revenues" means, for any Fiscal Year, all Revenues received by the Recipient less the Operations and Maintenance Costs for such Fiscal Year.

"Obligation" means the obligation of the Recipient to make Installment Payments and Additional Payments as provided herein, as evidenced by the execution of this Agreement, proceeds of such obligations being used to fund the Project as specified in the Project Description in Exhibit A and Exhibit A-FBA and in the documents thereby incorporated by reference.

"Operations and Maintenance Costs" means the reasonable and necessary costs paid or incurred by the Recipient for maintaining and operating the System, determined in accordance with GAAP, including all reasonable expenses of management and repair and all other expenses necessary to maintain and preserve the System in good repair and working order, and including all reasonable and necessary administrative costs of the Recipient that are charged directly or apportioned to the operation of the System, such as salaries and wages of employees, overhead, taxes (if any), the cost of permits, licenses, and charges to operate the System and insurance premiums; but excluding, in all cases depreciation, replacement, and obsolescence charges or reserves therefor and amortization of intangibles.

“Other Material Obligation” means an obligation of the Recipient set forth in Exhibit F that is not payable from Net Revenues, but is otherwise material to this transaction.

"Policy" means the State Water Board's “Policy for Implementing the Clean Water State Revolving Fund,” as amended from time to time, and including the Intended Use Plan in effect as of the Eligible Start Date.

“Project” means the Project financed by this Agreement as described in Exhibit A, Exhibit A-FBA, and in the documents incorporated by reference herein.

"Project Completion" means the date, as determined by the Division after consultation with the Recipient, that operation of the Project is initiated or is capable of being initiated, whichever comes first.

"Project Costs" means the incurred costs of the Recipient which are eligible for financial assistance under this Agreement, which are allowable costs as defined under the Policy, and which are reasonable, necessary and allocable by the Recipient to the Project under GAAP, plus capitalized interest.

“Project Funds” means all moneys disbursed to the Recipient by the State Water Board pursuant to this Agreement.

“Recipient” means the City of Roseville.

“Records Retention End Date” means the last date that the Recipient is obligated to maintain records pursuant to Section 2.17 of this Agreement.

“Regional Water Quality Control Board” or “Regional Water Board” means the appropriate Regional Water Quality Control Board.

“Reimbursement Resolution” means the Recipient’s reimbursement resolution identified in Exhibit A of this Agreement.

“Reserve Fund” means the reserve fund required pursuant to Section 3.7 of this Agreement.

"Revenues" means, for each Fiscal Year, all gross income and revenue received or receivable by the Recipient from the ownership or operation of the System, determined in accordance with GAAP, including all rates, fees, and charges (including connection fees and charges) as received by the Recipient for the services of the System, and all other income and revenue howsoever derived by the Recipient from the ownership or operation of the System or arising from the System, including all income from the deposit or investment of any money in the Enterprise Fund or any rate stabilization fund of the Recipient or held on the Recipient’s behalf, and any refundable deposits made to establish credit, and advances or contributions in aid of construction.

“Rule 15c2-12(b)(5)” means Rule 15c2-12(b)(5) promulgated by the Securities and Exchange Commission pursuant to the Securities Exchange Act of 1934, as amended.

“SRF” means the Clean Water State Revolving Fund.

“State” means State of California.

“State Water Board” means the State Water Resources Control Board.

"System" means all wastewater collection, pumping, transport, treatment, storage, and disposal facilities, including land and easements thereof, owned by the Recipient, including the Project, and all other properties, structures, or works hereafter acquired and constructed by the Recipient and determined to be a part of the System, together with all additions, betterments, extensions, or improvements to such facilities, properties, structures, or works, or any part thereof hereafter acquired and constructed.

“System Obligation” means any obligation of the Recipient payable from the Revenues, including but not limited to this Obligation and obligations reflected in Exhibit F and such additional obligations as may hereafter be issued in accordance with the provisions of such obligations and this Agreement.

"Year" means calendar year unless otherwise expressly indicated.

1.2 Exhibits Incorporated.

All exhibits to this Agreement, including any amendments and supplements hereto, are hereby incorporated herein and made a part of this Agreement.

ARTICLE II REPRESENTATIONS, WARRANTIES, AND COMMITMENTS

The Recipient represents, warrants, and commits to the following as of the Eligible Start Date set forth on the first page hereof and continuing thereafter for the term of this Agreement.

2.1 Application and General Recipient Commitments.

The Recipient has not made any untrue statement of a material fact in its application for this financial assistance, or omitted to state in its application a material fact that makes the statements in its application not misleading.

The Recipient shall comply with all terms, provisions, conditions, and commitments of this Agreement, including all incorporated documents, and shall fulfill all assurances, declarations, representations, and commitments in its application, accompanying documents, and communications filed in support of its request for financial assistance.

2.2 Authorization and Validity.

The execution and delivery of this Agreement, including all incorporated documents, has been duly authorized by the Recipient. Upon execution by both parties, this Agreement constitutes a valid and binding obligation of the Recipient, enforceable in accordance with its terms, except as such enforcement may be limited by law.

This Agreement, and any amendments hereto, may be executed and delivered in any number of counterparts, each of which when delivered shall be deemed to be an original, but such counterparts shall together constitute one document. The parties may sign this Agreement, and any amendments hereto, either by an electronic signature using a method approved by the State Water Board or by a physical, handwritten signature. The parties mutually agree that an electronic signature using a method approved by the State Water Board is the same as a physical, handwritten signature for the purposes of validity, enforceability, and admissibility.

2.3 No Violations.

The execution, delivery, and performance by Recipient of this Agreement, including all incorporated documents, do not violate any provision of any law or regulation in effect as of the date set forth on the first page hereof, or result in any breach or default under any contract, obligation, indenture, or other instrument to which Recipient is a party or by which Recipient is bound as of the date set forth on the first page hereof.

2.4 No Litigation.

There are no pending or, to Recipient's knowledge, threatened actions, claims, investigations, suits, or proceedings before any governmental authority, court, or administrative agency which materially affect the financial condition or operations of the Recipient, the System, the Revenues, and/or the Project.

2.5 Solvency and Insurance.

None of the transactions contemplated by this Agreement will be or have been made with an actual intent to hinder, delay, or defraud any present or future creditors of Recipient. As of the date set forth on the first page hereof, Recipient is solvent and will not be rendered insolvent by the transactions contemplated by this Agreement. Recipient is able to pay its debts as they become due. Recipient maintains sufficient insurance coverage considering the scope of this Agreement, including, for example but not necessarily limited to, general liability, automobile liability, workers compensation and employers liability, professional liability.

2.6 Legal Status and Eligibility.

Recipient is duly organized and existing and in good standing under the laws of the State of California. Recipient shall at all times maintain its current legal existence and preserve and keep in full force and effect its legal rights and authority. Recipient shall maintain its eligibility for funding under this Agreement.

2.7 Financial Statements and Continuing Disclosure.

The financial statements of Recipient previously delivered to the State Water Board as of the date(s) set forth in such financial statements: (a) are materially complete and correct; (b) present fairly the financial condition of the Recipient; and (c) have been prepared in accordance with GAAP. Since the date(s) of such financial statements, there has been no material adverse change in the financial condition of the Recipient, nor have any assets or properties reflected on such financial statements been sold, transferred, assigned, mortgaged, pledged or encumbered, except as previously disclosed in writing by Recipient and approved in writing by the State Water Board.

The Recipient is current in its continuing disclosure obligations associated with its material debt.

2.8 Completion of Project.

The Recipient shall expeditiously proceed with and complete construction of the Project in substantial accordance with Exhibit A and Exhibit A-FBA.

2.9 Award of Construction Contracts.

(a) The Recipient shall award the prime construction contract timely in order to meet the start of construction date specified in Exhibit A.

(b) The Recipient shall promptly notify the Division in writing both of the award of the prime construction contract for the Project and of Initiation of Construction of the Project. The Recipient shall make all reasonable efforts to complete construction in substantial conformance with the terms of the contract by the Completion of Construction date established in Exhibit A.

2.10 Notice.

Upon the occurrence of any of the following events, the Recipient shall notify the Deputy Director and the Division's project manager within the time specified below.

(1) The Recipient shall notify the Division within 24 hours of any discovery of any potential tribal cultural resource and/or archaeological or historical resource. In addition to notifying the Deputy Director and the Division's project manager, notice shall be delivered by phone to (916) 327-9978 and by email to CleanWaterSRF@waterboards.ca.gov. Should a potential tribal cultural resource and/or archaeological or historical resource be discovered during construction, the Recipient shall ensure that all work in the area of the find will cease until a qualified archaeologist has evaluated

the situation and made recommendations regarding preservation of the resource, and the Division has determined what actions should be taken to protect and preserve the resource. The Recipient shall implement appropriate actions as directed by the Division.

(2) The Recipient shall notify the Division within five (5) business days of the occurrence of any of the following events:

(a) Bankruptcy, insolvency, receivership or similar event of the Recipient, or actions taken in anticipation of any of the foregoing;
(b) Change of ownership of the System or change of management or service contracts, if any, for operation of the System;
(c) Loss, theft, damage, or impairment to the Revenues or the System;
(d) Failure to meet any debt service coverage test in section 3.7 of this agreement;
(e) Draws on the Reserve Fund;
(f) Listed Events or Events of Default, except as set forth in subdivisions (b) or (c) of this section;
(g) Failure to observe or perform any covenant in this Agreement.

(3) The Recipient shall notify the Division in writing within ten (10) business days of the following events:

(a) Material defaults on System Obligations, other than this Obligation;
(b) Unscheduled draws on debt service reserves held for System Obligations, other than this Obligation, if any, reflecting financial difficulties;
(c) Unscheduled draws on credit enhancements on System Obligations, if any, reflecting financial difficulties;
(d) Substitution of credit or liquidity providers, if any or their failure to perform;
(e) Any litigation pending or threatened with respect to the Project or the Recipient's technical, managerial or financial capacity to operate the System or the Recipient's continued existence, circulation of a petition to repeal, reduce, or otherwise challenge the Recipient's rates for services of the System, consideration of dissolution, or disincorporation, or any other event that could materially impair the Revenues;
(f) Adverse tax opinions, the issuance by the Internal Revenue Service or proposed or final determinations of taxability, Notices of Proposed Issue (IRS Form 5701-TEB) or other material notices of determinations with respect to the tax status of any tax-exempt bonds;
(g) Rating changes on outstanding System Obligations, if any;
(h) Issuance of additional parity obligations; or
(i) Enforcement actions by the Regional Water Board;

(4) The Recipient shall notify the Division promptly of the following:

(a) The discovery of a false statement of fact or representation made in this Agreement or in the application to the Division for this financial assistance, or in any certification, report, or request for disbursement made pursuant to this Agreement, by the Recipient, its employees, agents, or contractors;
(b) Any substantial change in scope of the Project. The Recipient shall undertake no substantial change in the scope of the Project until prompt written notice of the proposed change has been provided to the Division and the Division has given written approval for the change;
(c) Cessation of all major construction work on the Project where such cessation of work is expected to or does extend for a period of thirty (30) days or more;
(d) Any circumstance, combination of circumstances, or condition, which is expected to or does delay Completion of Construction for a period of ninety (90) days or more beyond the estimated date of Completion of Construction as specified in Exhibit A;

(e) Discovery of any unexpected endangered or threatened species, as defined in the federal Endangered Species Act. Should a federally protected species be unexpectedly encountered during construction of the Project, the Recipient agrees to promptly notify the Division. This notification is in addition to the Recipient's obligations under the federal Endangered Species Act;
(f) Any Project monitoring, demonstration, or other implementation activities required in Exhibit A or Exhibit D of this Agreement, if any;
(g) Any public or media event publicizing the accomplishments and/or results of this Agreement and provide the opportunity for attendance and participation by state representatives with at least ten (10) working days' notice to the Division;
(h) Any events requiring notice to the Division pursuant to the provisions of Exhibit E to this Agreement; or
(i) Completion of Construction of the Project, and actual Project Completion.

2.11 Findings and Challenge

Upon consideration of a voter initiative to reduce Revenues, the Recipient shall make a finding regarding the effect of such a reduction on the Recipient's ability to satisfy the rate covenant set forth in Section 3.7 of this Agreement. The Recipient shall make its findings available to the public and shall request, if necessary, the authorization of the Recipient's decision-maker or decision-making body to file litigation to challenge any such initiative that it finds will render it unable to satisfy the rate covenant set forth in Section 3.7 and its obligation to operate and maintain the Project for its useful life. The Recipient shall diligently pursue and bear any and all costs related to such challenge. The Recipient shall notify and regularly update the State Water Board regarding the status of any such challenge.

2.12 Project Access.

The Recipient shall ensure that the State Water Board, the Governor of the State, the United States Environmental Protection Agency, the Office of Inspector General, any member of Congress, or any authorized representative of the foregoing, will have safe and suitable access to the Project site at all reasonable times during Project construction and thereafter for the term of the Obligation. The Recipient acknowledges that, except for a subset of information regarding archaeological records, the Project records and locations are public records, including but not limited to all of the submissions accompanying the application, all of the documents incorporated by Exhibit A and Exhibit A-FBA, and all reports, disbursement requests, and supporting documentation submitted hereunder.

2.13 Project Completion; Initiation of Operations.

Upon Completion of Construction of the Project, the Recipient shall expeditiously initiate Project operations.

2.14 Continuous Use of Project; Lease, Sale, Transfer of Ownership, or Disposal of Project.

The Recipient agrees that, except as provided in this Agreement, it will not abandon, substantially discontinue use of, lease, sell, transfer ownership of, or dispose of all or a significant part or portion of the Project during the useful life of the Project without prior written approval of the Division. Such approval may be conditioned as determined to be appropriate by the Division, including a condition requiring repayment of all disbursed Project Funds or all or any portion of all remaining funds covered by this Agreement together with accrued interest and any penalty assessments that may be due.

2.15 Project Reports.

(a) Status Reports. The Recipient shall provide expeditiously status reports no less frequently than quarterly, starting with the execution of this Agreement. A status report must accompany any disbursement request and is a condition precedent to any disbursement. At a minimum the reports will contain the following information:

(1) A summary of progress to date including a description of progress since the last report, percent construction complete, percent contractor invoiced, and percent schedule elapsed;

(2) A description of compliance with environmental requirements;

(3) A listing of change orders including amount, description of work, and change in contract amount and schedule; and

(4) Any problems encountered, proposed resolution, schedule for resolution, and status of previous problem resolutions.

(b) Project Completion Report. The Recipient shall submit a Project Completion Report to the Division with a copy to the appropriate Regional Water Board on or before the due date established by the Division and the Recipient at the time of final project inspection. The Project Completion Report must address the following:

(1) Describe the Project,

(2) Describe the water quality problem the Project sought to address,

(3) Discuss the Project's likelihood of successfully addressing that water quality problem in the future, and

(4) Summarize compliance with environmental conditions, if applicable.

If the Recipient fails to submit a timely Project Completion Report, the State Water Board may stop processing pending or future applications for new financial assistance, withhold disbursements under this Agreement or other agreements, and begin administrative proceedings.

(c) As Needed Reports. The Recipient shall provide expeditiously, during the term of this Agreement, any reports, data, and information reasonably required by the Division, including but not limited to material necessary or appropriate for evaluation of the funding program or to fulfill any reporting requirements of the state or federal government.

2.16 Federal Disadvantaged Business Enterprise (DBE) Reporting.

The Recipient shall report DBE utilization to the Division on the DBE Utilization Report, State Water Board Form DBE UR334. The Recipient must submit such reports to the Division annually within ten (10) calendar days following October 1 until such time as the "Notice of Completion" is issued. The Recipient shall comply with 40 CFR § 33.301.

2.17 Records.

(a) Without limitation of the requirement to maintain Project accounts in accordance with GAAP, the Recipient shall:

(1) Establish an official file for the Project which adequately documents all significant actions relative to the Project;

(2) Establish separate accounts which will adequately and accurately depict all amounts received and expended on the Project, including all assistance funds received under this Agreement;

(3) Establish separate accounts which will adequately depict all income received which is attributable to the Project, specifically including any income attributable to assistance funds disbursed under this Agreement;

(4) Establish an accounting system which will accurately depict final total costs of the Project, including both direct and indirect costs;

(5) Establish such accounts and maintain such records as may be necessary for the State to fulfill federal reporting requirements, including any and all reporting requirements under federal tax statutes or regulations; and

(6) If Force Account is used by the Recipient for any phase of the Project, other than for planning, design, and construction engineering and administration provided for by allowance, accounts will be established which reasonably document all employee hours charged to the Project and the associated tasks performed by each employee. Indirect Force Account costs are not eligible for funding.

(b) The Recipient shall maintain separate books, records and other material relative to the Project. The Recipient shall also retain such books, records, and other material for itself and for each contractor or subcontractor who performed or performs work on this project for a minimum of thirty-six (36) years after Completion of Construction. The Recipient shall require that such books, records, and other material are subject at all reasonable times (at a minimum during normal business hours) to inspection, copying, and audit by the State Water Board, the California State Auditor, the Bureau of State Audits, the United States Environmental Protection Agency (USEPA), the Office of Inspector General, the Internal Revenue Service, the Governor, or any authorized representatives of the aforementioned. The Recipient shall allow and shall require its contractors to allow interviews during normal business hours of any employees who might reasonably have information related to such records. The Recipient agrees to include a similar duty regarding audit, interviews, and records retention in any contract or subcontract related to the performance of this Agreement. The provisions of this section shall survive the discharge of the Recipient's Obligation and the term of this Agreement.

2.18 Audit.

(a) The Division may call for an audit of financial information relative to the Project if the Division determines that an audit is desirable to assure program integrity or if an audit becomes necessary because of state or federal requirements. If an audit is called for, the audit shall be performed by a certified public accountant independent of the Recipient and at the cost of the Recipient. The audit shall be in the form required by the Division

(b) Audit disallowances will be returned to the State Water Board.

ARTICLE III FINANCING PROVISIONS

3.1 Purchase and Sale of Project.

The Recipient hereby sells to the State Water Board and the State Water Board hereby purchases from the Recipient the Project. Simultaneously therewith, the Recipient hereby purchases from the State Water Board, and the State Water Board hereby sells to the Recipient, the Project in accordance with the provisions of this Agreement. All right, title, and interest in the Project shall immediately vest in the Recipient on the date of execution and delivery of this Agreement by both parties without further action on the part of the Recipient or the State Water Board. The State Water Board's disbursement of funds hereunder is contingent on the Recipient's compliance with the terms and conditions of this Agreement.

3.2 Amounts Payable by the Recipient.

(a) Installment Payments. Interest will accrue beginning with each disbursement. Beginning one year after Completion of Construction, repayment of the principal of the Project Funds, together with all interest accruing thereon, shall be repaid annually, and shall be fully amortized by the Final Repayment Date.

The Installment Payments are based on a standard fully amortized assistance amount with equal annual payments. The remaining balance is the previous balance, plus the disbursements, plus the accrued interest on both, plus any Charge In Lieu of Interest, less the Installment Payment. Installment Payment calculations will be made beginning one (1) year after Completion of Construction. Exhibit C is a payment schedule based on the provisions of this article and an estimated disbursement schedule. Actual payments will be based on actual disbursements.

Upon Completion of Construction and submission of necessary reports by the Recipient, the Division will prepare an appropriate payment schedule and supply the same to the Recipient. The Division may amend this schedule as necessary to accurately reflect amounts due under this Agreement. The Division will prepare any necessary amendments to the payment schedule and send them to the Recipient.

The Recipient shall make each Installment Payment on or before the due date therefor. A ten (10) day grace period will be allowed, after which time a penalty in the amount of costs incurred by the State Water Board will be assessed for late payment. These costs may include, but are not limited to, lost interest earnings, staff time, bond debt service default penalties, if any, and other related costs. For purposes of penalty assessment, payment will be deemed to have been made if payment is deposited in the U.S. Mail within the grace period with postage prepaid and properly addressed. Any penalties assessed will not be added to the assistance amount balance, but will be treated as a separate account and obligation of the Recipient. The interest penalty will be assessed from the payment due date.

The Recipient is obligated to make all payments required by this Agreement to the State Water Board, notwithstanding any individual default by its constituents or others in the payment to the Recipient of fees, charges, taxes, assessments, tolls or other charges ("Charges") levied or imposed by the Recipient. The Recipient shall provide for the punctual payment to the State Water Board of all amounts which become due under this Agreement and which are received from constituents or others in the payment to the Recipient. In the event of failure, neglect or refusal of any officer of the Recipient to levy or cause to be levied any Charge to provide payment by the Recipient under this Agreement, to enforce or to collect such Charge, or to pay over to the State Water Board any money collected on account of such Charge necessary to satisfy any amount due under this Agreement, the State Water Board may take such action in a court of competent jurisdiction as it deems necessary to compel the performance of all duties relating to

the imposition or levying and collection of any of such Charges and the payment of the money collected therefrom to the State Water Board. Action taken pursuant hereto shall not deprive the State Water Board of, or limit the application of, any other remedy provided by law or by this Agreement.

Each Installment Payment shall be paid in lawful money of the United States of America by check or other acceptable form of payment set forth at www.waterboards.ca.gov/make_a_payment.

The Recipient shall not be entitled to interest earned on undisbursed funds. Upon execution of this Agreement, the State Water Board shall encumber an amount equal to the Obligation. The Recipient shall pay Installment Payments and Additional Payments from Net Revenues and/or other amounts legally available to the Recipient therefor. Interest on any funds disbursed to the Recipient shall begin to accrue as of the date of each disbursement.

(b) Project Costs. The Recipient shall pay any and all costs connected with the Project including, without limitation, any and all Project Costs. If the Project Funds are not sufficient to pay the Project Costs in full, the Recipient shall nonetheless complete the Project and pay that portion of the Project Costs in excess of available Project Funds, and shall not be entitled to any reimbursement therefor from the State Water Board.

(c) Additional Payments. In addition to the Installment Payments required to be made by the Recipient, the Recipient shall also pay to the State Water Board the reasonable extraordinary fees and expenses of the State Water Board, and of any assignee of the State Water Board's right, title, and interest in and to this Agreement, in connection with this Agreement, including all expenses and fees of accountants, trustees, staff, contractors, consultants, costs, insurance premiums and all other extraordinary costs reasonably incurred by the State Water Board or assignee of the State Water Board.

Additional Payments may be billed to the Recipient by the State Water Board from time to time, together with a statement executed by a duly authorized representative of the State Water Board, stating that the amounts billed pursuant to this section have been incurred by the State Water Board or its assignee for one or more of the above items and a copy of the invoice or statement for the amount so incurred or paid. Amounts so billed shall be paid by the Recipient within thirty (30) days after receipt of the bill by the Recipient.

(d) The Recipient may not prepay any portion of the principal and interest due under this Agreement without the written consent of the Deputy Director of the Division.

3.3 Obligation Absolute.

The obligation of the Recipient to make the Installment Payments and other payments required to be made by it under this Agreement, from Net Revenues and/or other amounts legally available to the Recipient therefor, is absolute and unconditional, and until such time as the Installment Payments and Additional Payments have been paid in full, the Recipient shall not discontinue or suspend any Installment Payments or other payments required to be made by it hereunder when due, whether or not the System or any part thereof is operating or operable or has been completed, or its use is suspended, interfered with, reduced or curtailed or terminated in whole or in part, and such Installment Payments and other payments shall not be subject to reduction whether by offset or otherwise and shall not be conditional upon the performance or nonperformance by any party of any agreement for any cause whatsoever.

3.4 No Obligation of the State.

Any obligation of the State Water Board herein contained shall not be an obligation, debt, or liability of the State and any such obligation shall be payable solely out of the moneys encumbered pursuant to this Agreement. If this Agreement's funding for any fiscal year expires due to reversion or is reduced, substantially delayed, or deleted by the Budget Act, by Executive Order, or by order or action of the Department of Finance, the State shall have the option to either cancel this Agreement with no liability occurring to the State, or offer an amendment to the Recipient to reflect the reduced amount.

3.5 Disbursement of Project Funds; Availability of Funds.

(a) Except as may be otherwise provided in this Agreement, disbursement of Project Funds will be made as follows:

(1) Upon execution and delivery of this Agreement by both parties, the Recipient may request immediate disbursement of any eligible incurred planning and design allowance as specified in Exhibit B from the Project Funds through submission to the State Water Board of the Disbursement Request Form 260 and Form 261, or any amendment thereto, duly completed and executed.

(2) The Recipient may request disbursement of eligible construction and equipment costs consistent with budget amounts referenced in Exhibit B and Exhibit A-FBA. (Note that this Agreement will be amended to incorporate Exhibit A-FBA after final budget approval.)

(3) Additional Project Funds will be promptly disbursed to the Recipient upon receipt of Disbursement Request Form 260 and Form 261, or any amendment thereto, duly completed and executed by the Recipient for incurred costs consistent with this Agreement, along with receipt of status reports due under Section 2.15 above.

(4) The Recipient shall not request disbursement for any Project Cost until such cost has been incurred and is currently due and payable by the Recipient, although the actual payment of such cost by the Recipient is not required as a condition of disbursement request. Supporting documentation (e.g., receipts) must be submitted with each Disbursement Request. The amount requested for administration costs must include a calculation formula (i.e., hours or days worked times the hourly or daily rate = total amount claimed). Disbursement of Project Funds will be made only after receipt of a complete, adequately supported, properly documented, and accurately addressed Disbursement Request.

(5) Recipient shall spend Project Funds within 30 days of receipt. Any interest earned on Project Funds shall be reported to the State Water Board and may be required to be returned to the State Water Board or deducted from future disbursements.

(6) The Recipient shall not be entitled to interest earned on undisbursed funds.

(7) The Recipient shall not request a disbursement unless that Project Cost is allowable, reasonable, and allocable.

(8) Notwithstanding any other provision of this Agreement, no disbursement shall be required at any time or in any manner which is in violation of or in conflict with federal or state laws, policies, or regulations.

(9) Costs incurred for travel outside the State of California are not eligible for reimbursement under this Agreement unless the Division provides prior written authorization. Any reimbursement for necessary travel and per diem shall be at rates not to exceed those set by the California Department of Human Resources. These rates may be found at http://www.calhr.ca.gov/employees/Pages/travel-reimbursements.aspx. Reimbursement will be at the State travel and per diem amounts that are current as of the date costs are incurred by the Recipient.

(b) The State Water Board's obligation to disburse Project Funds is contingent upon the availability of sufficient funds to permit the disbursements provided for herein. If sufficient funds are not available for any reason, including but not limited to failure of the federal or State government to appropriate funds necessary for disbursement of Project Funds, the State Water Board shall not

be obligated to make any disbursements to the Recipient under this Agreement. This provision shall be construed as a condition precedent to the obligation of the State Water Board to make any disbursements under this Agreement. Nothing in this Agreement shall be construed to provide the Recipient with a right of priority for disbursement over any other agency. If any disbursements due the Recipient under this Agreement are deferred because sufficient funds are unavailable, it is the intention of the State Water Board that such disbursement will be made to the Recipient when sufficient funds do become available, but this intention is not binding.

(c) Fraud and Misuse of Public Funds. All requests for disbursement submitted shall be accurate and signed by the Recipient's Authorized Representative under penalty of perjury. All costs submitted pursuant to this Agreement shall only be for the tasks set forth herein. The Recipient shall not submit any invoice containing costs that are ineligible or have been reimbursed from other funding sources unless required and specifically noted as such (i.e., match costs). Any eligible costs for which the Recipient is seeking reimbursement shall not be reimbursed from any other source. Double or multiple billing for time, services, or any other eligible cost is improper and will not be compensated. Any suspected occurrences of fraud, forgery, embezzlement, theft, or any other misuse of public funds may result in suspension of disbursements and, notwithstanding any other section in this Agreement, the termination of this Agreement requiring the repayment of all funds disbursed hereunder. Additionally, the Deputy Director of the Division may request an audit and refer the matter to the Attorney General's Office or the appropriate district attorney's office for criminal prosecution or the imposition of civil liability.

3.6 Withholding of Disbursements and Material Violations.

Notwithstanding any other provision of this Agreement, the State Water Board may withhold all or any portion of the Project Funds upon the occurrence of any of the following events:

a. The Recipient's failure to maintain reasonable progress on the Project as determined by the Division;
b. Placement on the ballot or passage of an initiative or referendum to repeal or reduce the Recipient's taxes, assessments, fees, or charges levied for operation of the System or repayment of debt service on System Obligations;
c. Commencement of litigation or a judicial or administrative proceeding related to the System, Project, or Revenues that the State Water Board determines may impair the timely completion of the Project or the repayment of the Obligation;
d. Any investigation by the District Attorney, California State Auditor, Bureau of State Audits, United States Environmental Protection Agency's Office of Inspector General, the Internal Revenue Service, Securities and Exchange Commission, a grand jury, or any other state or federal agency, relating to the Recipient's financial management, accounting procedures, or internal fiscal controls;
e. A material adverse change in the condition of the Recipient, the Revenues, or the System, that the Division reasonably determines would materially impair the Recipient's ability to satisfy its obligations under this Agreement, or any other event that the Division reasonably determines would materially impair the Recipient's ability to satisfy its obligations under this Agreement,
f. The Recipient's material violation of, or threat to materially violate, any term of this Agreement;
g. Evidence of fraud, forgery, embezzlement, theft, or any other misuse of public funds by the Recipient or its employees, or by its contractors or agents regarding the Project or the System;
h. An Event of Default or an event that the Division determines may become an Event of Default;

3.7 Pledge; Rates, Fees and Charges; Additional Debt.

(a) Establishment of Enterprise Fund and Reserve Fund. In order to carry out its System Obligations, the Recipient covenants that it shall establish and maintain or shall have established and maintained the Enterprise Fund. All Revenues received shall be deposited when and as received in trust in the Enterprise Fund. As required in paragraph (f) of this Section, the Recipient shall establish and maintain a Reserve Fund.

(b) Pledge of Net Revenues, Enterprise Fund, and Reserve Fund. The Obligation hereunder shall be secured by a lien on and pledge of the Enterprise Fund, Net Revenues, and any Reserve Fund in priority as specified in Exhibit F (senior, parity, or subordinate). The Recipient hereby pledges and grants such lien on and pledge of the Enterprise Fund, Net Revenues, and any Reserve Fund to secure the Obligation, including payment of Installment Payments and Additional Payments hereunder. The Net Revenues in the Enterprise Fund, shall be subject to the lien of such pledge without any physical delivery thereof or further act, and the lien of such pledge shall be valid and binding as against all parties having claims of any kind in tort, contract, or otherwise against the Recipient.

(c) Application and Purpose of the Enterprise Fund. Subject to the provisions of any outstanding System Obligation, money on deposit in the Enterprise Fund shall be applied and used first, to pay Operations and Maintenance Costs, and thereafter, all amounts due and payable with respect to the System Obligations. After making all payments hereinabove required to be made in each Fiscal Year, the Recipient may expend in such Fiscal Year any remaining money in the Enterprise Fund for any lawful purpose of the Recipient, including payment of subordinate debt.

(d) Rates, Fees and Charges.

The Recipient shall, to the extent permitted by law, fix, prescribe and collect rates, fees and charges for the System during each Fiscal Year which are reasonable, fair, and nondiscriminatory and which will be sufficient to generate Revenues in the amounts necessary to cover Operations and Maintenance Costs, and shall ensure that Net Revenues are equal to at least 120% of the Maximum Annual Debt Service with respect to all outstanding System Obligations.

The Recipient may make adjustments from time to time in such fees and charges and may make such classification thereof as it deems necessary, but shall not reduce the rates, fees and charges then in effect unless the Net Revenues from such reduced rates, fees, and charges will at all times be sufficient to meet the requirements of this section.

(e) Additional Debt Test.

(1) Additional Senior Debt. The Recipient's future debt that is secured by Revenues pledged herein may not be senior to this Obligation, except where the new senior obligation refunds or refinances a senior obligation with the same lien position as the existing senior obligation, the new senior obligation has the same or earlier repayment term as the refunded senior debt, the new senior debt service is the same or lower than the existing debt service, and the new senior debt will not diminish the Recipient's ability to repay its SRF obligations.

(2) Additional Parity or Subordinate Debt. The Recipient may issue additional parity or subordinate debt only if

(A) Net Revenues in the most recent Fiscal Year, excluding transfers from a rate stabilization fund, if any, meet the ratio for rate covenants set forth in paragraph (d) of this Section with respect to all outstanding and proposed additional obligations;

(B) The Recipient is in compliance with any reserve fund requirement of this Obligation.

(f) Reserve Fund.

Prior to Completion of Construction, the Recipient shall establish a restricted Reserve Fund, held in its Enterprise Fund, equal to one year's Debt Service on this Obligation. The Recipient shall maintain the Reserve Fund throughout the term of this Agreement. The Reserve Fund shall be subject to lien and pledged as security for this Obligation, and its use shall be restricted to payment of this Obligation during the term of this Agreement.

(g) The Recipient may issue or incur subordinate obligations or otherwise issue or incur obligations payable from a lien on Net Revenues that is subordinate to the lien of Net Revenues securing the Obligation.

(h) The Recipient shall not make any pledge of or place any lien on Revenues and shall not make any pledge of or place any lien on Net Revenues except as otherwise provided or permitted by this Agreement.

3.8 Financial Management System and Standards.

The Recipient shall comply with federal standards for financial management systems. The Recipient agrees that, at a minimum, its fiscal control and accounting procedures will be sufficient to permit preparation of reports required by the federal government and tracking of Project funds to a level of expenditure adequate to establish that such funds have not been used in violation of federal or state law or the terms of this Agreement. To the extent applicable, the Recipient shall be bound by, and to comply with, the provisions and requirements of the federal Single Audit Act of 1984, Office of Management and Budget (OMB) Circular No. A-133 and 2 CFR Part 200, subpart F, and updates or revisions, thereto.

3.9 Accounting and Auditing Standards.

The Recipient must maintain project accounts according to GAAP as issued by the Governmental Accounting Standards Board (GASB) or its successor. The Recipient shall maintain GAAP-compliant project accounts, including GAAP requirements relating to the reporting of infrastructure assets.

3.10 Other Assistance.

If funding for Project Costs is made available to the Recipient from sources other than this Agreement, the Recipient shall notify the Division. The Recipient may retain such funding up to an amount which equals the Recipient's local share of Project Costs. To the extent allowed by requirements of other funding sources, excess funding shall be remitted to the State Water Board to be applied to Installment Payments due hereunder, if any.

ARTICLE IV MISCELLANEOUS PROVISIONS

4.1 Amendment.

No amendment or variation of the terms of this Agreement shall be valid unless made in writing and signed by both the Recipient and the Deputy Director or designee. Requests for amendments shall be made in writing and directed to the Deputy Director.

4.2 Assignability.

The Recipient consents to any pledge, sale, or assignment to the Bank or a trustee for the benefit of the owners of the Bonds, if any, at any time of any portion of the State Water Board's estate, right, title, and interest and claim in, to and under this Agreement and the right to make all related waivers and agreements in the name and on behalf of the State Water Board, as agent and attorney-in-fact, and to

perform all other related acts which are necessary and appropriate under this Agreement, if any, and the State Water Board's estate, right, title, and interest and claim in, to and under this Agreement to Installment Payments (but excluding the State Water Board's rights to Additional Payments and to notices, opinions and indemnification under each Obligation). This Agreement is not assignable by the Recipient, either in whole or in part, without the consent of the State Water Board in the form of a formal written amendment to this Agreement.

4.3 Bonding.

Where contractors are used, the Recipient shall not authorize construction to begin until each contractor has furnished a performance bond in favor of the Recipient in the following amounts: faithful performance (100%) of contract value; labor and materials (100%) of contract value. This requirement shall not apply to any contract for less than $25,000.00.

4.4 Competitive Bidding

Recipient shall adhere to any applicable state law or local ordinance for competitive bidding and applicable labor laws.

4.5 Compliance with Law, Regulations, etc.

The Recipient shall, at all times, comply with and require its contractors and subcontractors to comply with all applicable federal and state laws, rules, guidelines, regulations, and requirements. Without limitation of the foregoing, to the extent applicable, the Recipient shall:

(a) Comply with the provisions of the adopted environmental mitigation plan, if any, for the term of this Agreement;

(b) Comply with the State Water Board's Policy;

(c) Comply with and require compliance with the list of State laws attached as Exhibit H.

(d) Comply with and require its contractors and subcontractors on the Project to comply with federal DBE requirements; and

(e) Comply with and require its contractors and subcontractors to comply with the list of federal laws attached as Exhibit E.

4.6 Conflict of Interest.

The Recipient certifies that its owners, officers, directors, agents, representatives, and employees are in compliance with applicable state and federal conflict of interest laws.

4.7 Damages for Breach Affecting Tax-Exempt Status or Federal Compliance

In the event that any breach of any of the provisions of this Agreement by the Recipient shall result in the loss of tax-exempt status for any bonds of the State or any subdivision or agency thereof, including Bonds issued on behalf of the State Water Board, or if such breach shall result in an obligation on the part of the State or any subdivision or agency thereof to reimburse the federal government by reason of any arbitrage profits, the Recipient shall immediately reimburse the State or any subdivision or agency thereof in an amount equal to any damages paid by or loss incurred by the State or any subdivision or agency thereof due to such breach. In the event that any breach of any of the provisions of this Agreement by the Recipient shall result in the failure of Project Funds to be used pursuant to the provisions of this

Agreement, or if such breach shall result in an obligation on the part of the State or any subdivision or agency thereof to reimburse the federal government, the Recipient shall immediately reimburse the State or any subdivision or agency thereof in an amount equal to any damages paid by or loss incurred by the State or any subdivision or agency thereof due to such breach.

4.8 Disputes.

(a) The Recipient may appeal a staff decision within 30 days to the Deputy Director of the Division or designee, for a final Division decision. The Recipient may appeal a final Division decision to the State Water Board within 30 days. The Office of the Chief Counsel of the State Water Board will prepare a summary of the dispute and make recommendations relative to its final resolution, which will be provided to the State Water Board's Executive Director and each State Water Board Member. Upon the motion of any State Water Board Member, the State Water Board will review and resolve the dispute in the manner determined by the State Water Board. Should the State Water Board determine not to review the final Division decision, this decision will represent a final agency action on the dispute.

(b) This clause does not preclude consideration of legal questions, provided that nothing herein shall be construed to make final the decision of the State Water Board, or any official or representative thereof, on any question of law.

(c) Recipient shall continue with the responsibilities under this Agreement during any dispute.

(d) This section 4.8 relating to disputes does not establish an exclusive procedure for resolving claims within the meaning of Government Code sections 930 and 930.4.

4.9 Governing Law.

This Agreement is governed by and shall be interpreted in accordance with the laws of the State of California.

4.10 Income Restrictions.

The Recipient agrees that any refunds, rebates, credits, or other amounts (including any interest thereon) accruing to or received by the Recipient under this Agreement shall be paid by the Recipient to the State Water Board, to the extent that they are properly allocable to costs for which the Recipient has been reimbursed by the State Water Board under this Agreement.

4.11 Indemnification and State Reviews.

The parties agree that review or approval of Project plans and specifications by the State Water Board is for administrative purposes only, including conformity with application and eligibility criteria, and expressly not for the purposes of design defect review or construction feasibility, and does not relieve the Recipient of its responsibility to properly plan, design, construct, operate, and maintain the Project. To the extent permitted by law, the Recipient agrees to indemnify, defend, and hold harmless the State Water Board, the Bank, and any trustee, and their officers, employees, and agents for the Bonds, if any (collectively, "Indemnified Persons"), against any loss or liability arising out of any claim or action brought against any Indemnified Persons from and against any and all losses, claims, damages, liabilities, or expenses, of every conceivable kind, character, and nature whatsoever arising out of, resulting from, or in any way connected with (1) the System or the Project or the conditions, occupancy, use, possession, conduct, or management of, work done in or about, or the planning, design, acquisition, installation, or construction, of the System or the Project or any part thereof; (2) the carrying out of any of the transactions contemplated by this Agreement or any related document; (3) any violation of any applicable law, rule or

regulation, any environmental law (including, without limitation, the Federal Comprehensive Environmental Response, Compensation and Liability Act, the Resource Conservation and Recovery Act, the California Hazardous Substance Account Act, the Federal Water Pollution Control Act, the Clean Air Act, the Toxic Substances Control Act, the Occupational Safety and Health Act, the Safe Drinking Water Act, the California Hazardous Waste Control Law, and California Water Code Section 13304, and any successors to said laws), rule or regulation or the release of any toxic substance on or near the System; or (4) any untrue statement or alleged untrue statement of any material fact or omission or alleged omission to state a material fact necessary to make the statements required to be stated therein, in light of the circumstances under which they were made, not misleading with respect to any information provided by the Recipient for use in any disclosure document utilized in connection with any of the transactions contemplated by this Agreement, except those arising from the gross negligence or willful misconduct of the Indemnified Persons. The Recipient shall also provide for the defense and indemnification of the Indemnified Parties in any contractual provision extending indemnity to the Recipient in any contract let for the performance of any work under this Agreement, and shall cause the Indemnified Parties to be included within the scope of any provision for the indemnification and defense of the Recipient in any contract or subcontract. To the fullest extent permitted by law, the Recipient agrees to pay and discharge any judgment or award entered or made against Indemnified Persons with respect to any such claim or action, and any settlement, compromise or other voluntary resolution. The provisions of this section shall survive the term of this Agreement and the discharge of the Recipient's Obligation hereunder.

4.12 Independent Actor.

The Recipient, and its agents and employees, if any, in the performance of this Agreement, shall act in an independent capacity and not as officers, employees, or agents of the State Water Board.

4.13 Integration.

This Agreement constitutes the complete and final agreement between the parties. No oral or written understanding or agreement not incorporated in this Agreement shall be binding on either party.

4.14 Leveraging Covenants.

(a) Tax Covenant. Notwithstanding any other provision hereof, the Recipient covenants and agrees that it will comply with the Tax Covenants set forth in Article V of this Agreement.

(b) Disclosure of Financial Information, Operating Data, and Other Information. The Recipient covenants to furnish such financial, operating and other data pertaining to the Recipient as may be requested by the State Water Board to: (i) enable the State Water Board to cause the issuance of Bonds and provide for security therefor; or (ii) enable any underwriter of Bonds issued for the benefit of the State Water Board to comply with Rule 15c2-12(b)(5). The Recipient further covenants to provide the State Water Board with copies of all continuing disclosure documents or reports that are disclosed pursuant to (i) the Recipient's continuing disclosure undertaking or undertakings made in connection with any outstanding System Obligation, (ii) the terms of any outstanding System Obligation, or (iii) a voluntary disclosure of information related to an outstanding System Obligation. The Recipient shall disclose such documents or reports to the State Water Board at the same time such documents or reports are submitted to any dissemination agent, trustee, nationally recognized municipal securities information repository, the Municipal Securities Rulemaking Board's Electronic Municipal Market Access (EMMA) website or other person or entity.

4.15 Non-Discrimination Clause.

(a) The Recipient shall comply with Government Code section 11135 and the implementing regulations (Cal. Code Regs, tit. 2, § 11140 et seq.), including, but not limited to, ensuring that no person is unlawfully denied full and equal access to the benefits of, or unlawfully subjected to discrimination in the operation of, the Project or System on the basis of sex, race, color, religion, ancestry, national origin, ethnic group identification, age, mental disability, physical disability, medical condition, genetic information, marital status, or sexual orientation as such terms are defined under California law, for as long as the Recipient retains ownership or possession of the Project.

(b) If Project Funds are used to acquire or improve real property, the Recipient shall include a covenant of nondiscrimination running with the land in the instrument effecting or recording the transfer of such real property.

(c) The Recipient shall comply with the federal American with Disabilities Act of 1990 and implementing regulations as required by Government Code section 11135(b).

(d) The Recipient's obligations under this section shall survive the term of this Agreement.

(e) During the performance of this Agreement, Recipient and its contractors and subcontractors shall not unlawfully discriminate, harass, or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, sexual orientation, physical disability (including HIV and AIDS), mental disability, medical condition (cancer), age (over 40), marital status, denial of family care leave, or genetic information, gender, gender identity, gender expression, or military and veteran status.

(f) The Recipient, its contractors, and subcontractors shall ensure that the evaluation and treatment of their employees and applicants for employment are free from such discrimination and harassment.

(g) The Recipient, its contractors, and subcontractors shall comply with the provisions of the Fair Employment and Housing Act and the applicable regulations promulgated thereunder. (Gov. Code, §12990, subds. (a)-(f) et seq.;Cal. Code Regs., tit. 2, § 7285 et seq.) Such regulations are incorporated into this Agreement by reference and made a part hereof as if set forth in full.

(h) The Recipient, its contractors, and subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement.

(i) The Recipient shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under this Agreement.

4.16 No Third Party Rights.

The parties to this Agreement do not create rights in, or grant remedies to, any third party as a beneficiary of this Agreement, or of any duty, covenant, obligation, or undertaking established herein.

4.17 Operation and Maintenance; Insurance.

The Recipient agrees to sufficiently and properly staff, operate and maintain all portions of the System during its useful life in accordance with all applicable state and federal laws, rules, and regulations.

The Recipient will procure and maintain or cause to be maintained insurance on the System with responsible insurers, or as part of a reasonable system of self-insurance, in such amounts and against such risks (including damage to or destruction of the System) as are usually covered in connection with systems similar to the System. Such insurance may be maintained by a self-insurance plan so long as such plan provides for (i) the establishment by the Recipient of a separate segregated self-insurance fund in an amount determined (initially and on at least an annual basis) by an independent insurance consultant experienced in the field of risk management employing accepted actuarial techniques and (ii) the establishment and maintenance of a claims processing and risk management program.

In the event of any damage to or destruction of the System caused by the perils covered by such insurance, the net proceeds thereof shall be applied to the reconstruction, repair or replacement of the damaged or destroyed portion of the System. The Recipient shall begin such reconstruction, repair or replacement as expeditiously as possible, and shall pay out of such net proceeds all costs and expenses in connection with such reconstruction, repair or replacement so that the same shall be completed and the System shall be free and clear of all claims and liens. If such net proceeds are insufficient to reconstruct, repair, or restore the System to the extent necessary to enable the Recipient to pay all remaining unpaid principal portions of the Installment Payments, if any, in accordance with the terms of this Agreement, the Recipient shall provide additional funds to restore or replace the damaged portions of the System.

Recipient agrees that for any policy of insurance concerning or covering the construction of the Project, it will cause, and will require its contractors and subcontractors to cause, a certificate of insurance to be issued showing the State Water Board, its officers, agents, employees, and servants as additional insured; and shall provide the Division with a copy of all such certificates prior to the commencement of construction of the Project.

4.18 Permits, Subcontracting, and Remedies.

The Recipient shall comply in all material respects with all applicable federal, state and local laws, rules and regulations. Recipient shall procure all permits, licenses and other authorizations necessary to accomplish the work contemplated in this Agreement, pay all charges and fees, and give all notices necessary and incidental to the due and lawful prosecution of the work. Signed copies of any such permits or licenses shall be submitted to the Division before construction begins.

The Recipient shall not contract or allow subcontracting with excluded parties. The Recipient shall not contract with any party who is debarred or suspended or otherwise excluded from or ineligible for participation in any work overseen, directed, funded, or administered by the State Water Board program for which this funding is authorized. For any work related to this Agreement, the Recipient shall not contract with any individual or organization on the State Water Board's List of Disqualified Businesses and Persons that is identified as debarred or suspended or otherwise excluded from or ineligible for participation in any work overseen, directed, funded, or administered by the State Water Board program for which funding under this Agreement is authorized. The State Water Board's List of Disqualified Businesses and Persons is located at
http://www.waterboards.ca.gov/water_issues/programs/enforcement/fwa/dbp.shtml

4.19 Prevailing Wages.

The Recipient agrees to be bound by all applicable provisions of State Labor Code regarding prevailing wages. The Recipient shall monitor all agreements subject to reimbursement from this Agreement to ensure that the prevailing wage provisions of the State Labor Code are being met. In addition, the Recipient agrees to comply with the provisions of Exhibit G (Davis-Bacon).

4.20 Public Funding.

This Project is publicly funded. Any service provider or contractor with which the Recipient contracts must not have any role or relationship with the Recipient, that, in effect, substantially limits the Recipient's ability to exercise its rights, including cancellation rights, under the contract, based on all the facts and circumstances.

4.21 Recipient's Responsibility for Work.

The Recipient shall be responsible for all work and for persons or entities engaged in work performed pursuant to this Agreement, including, but not limited to, contractors, subcontractors, suppliers, and providers of services. The Recipient shall be responsible for responding to any and all disputes arising out of its contracts for work on the Project. The State Water Board will not mediate disputes between the Recipient and any other entity concerning responsibility for performance of work.

4.22 Related Litigation.

Under no circumstances may the Recipient use funds from any disbursement under this Agreement to pay costs associated with any litigation the Recipient pursues against the State Water Board or any Regional Water Quality Control Board. Regardless of the outcome of any such litigation, and notwithstanding any conflicting language in this Agreement, the Recipient agrees to repay all of the disbursed funds plus interest in the event that Recipient does not complete the project.

4.23 Rights in Data.

The Recipient agrees that all data, plans, drawings, specifications, reports, computer programs, operating manuals, notes, and other written or graphic work produced in the performance of this Agreement are subject to the rights of the State as set forth in this section. The State shall have the right to reproduce, publish, and use all such work, or any part thereof, in any manner and for any purposes whatsoever and to authorize others to do so. If any such work is copyrightable, the Recipient may copyright the same, except that, as to any work which is copyrighted by the Recipient, the State reserves a royalty-free, nonexclusive, and irrevocable license to reproduce, publish, and use such work, or any part thereof, and to authorize others to do so, and to receive electronic copies from the Recipient upon request.

4.24 State Water Board Action; Costs and Attorney Fees.

Any remedy provided in this Agreement is in addition to and not in derogation of any other legal or equitable remedy available to the State Water Board as a result of breach of this Agreement by the Recipient, whether such breach occurs before or after completion of the Project, and exercise of any remedy provided by this Agreement by the State Water Board shall not preclude the State Water Board from pursuing any legal remedy or right which would otherwise be available. In the event of litigation between the parties hereto arising from this Agreement, it is agreed that each party shall bear its own costs and attorney fees.

4.25 Termination and Other Remedies Upon Event of Default.

For purposes of this section, the term "State Water Board" shall mean the State Water Board and its assignees.

(a) Return of Funds; Acceleration; and Additional Payments. Notwithstanding Exhibit B, if the Division determines that an Event of Default has occurred, the Recipient shall, upon demand, immediately do each of the following:

(a) accelerate the payment of all principal owed under this Agreement, if any, which shall be immediately due and payable;
(b) pay interest at the highest legal rate on all amounts owed; and
(c) pay any Additional Payments.

(b) Judicial remedies. Whenever the State Water Board determines that an Event of Default shall have occurred, the State Water Board may enforce its rights under this Agreement by any judicial proceeding, whether at law or in equity. Without limiting the generality of the foregoing, the State Water Board may: by suit in equity, require the Recipient to account for amounts relating to this Agreement as if the Recipient were the trustee of an express trust; by mandamus or other proceeding, compel the performance by the Recipient and any of its officers, agents, and employees of any duty under the law or of any obligation or covenant under this Agreement, including but not limited to the imposition and collection of rates for the services of the System sufficient to meet all requirements of this Agreement; and take whatever action at law or in equity as may appear necessary or desirable to the State Water Board to collect the Installment Payments then due or thereafter to become due, or to enforce performance of any obligation or covenant of the Recipient under this Agreement.

(c) Termination. Upon an Event of Default, the State Water Board may terminate this Agreement. Interest shall accrue on all amounts due at the highest legal rate of interest from the date that the State Water Board delivers notice of termination to the Recipient.

(d) Remedies Not Exclusive. None of the remedies available to the State Water Board shall be exclusive of any other remedy, and each such remedy shall be cumulative and in addition to every other remedy given hereunder or now or hereafter existing at law or in equity. The State Water Board may exercise any remedy, now or hereafter existing, without exhausting and without regard to any other remedy.

(e) Non-waiver. Nothing in this section or any other section of this Agreement shall affect or impair the Recipient's obligation to pay Installment Payments as provided herein or shall affect or impair the right of the State Water Board to bring suit to enforce such payment. No delay or omission of the State Water Board in the exercise of any right arising upon an Event of Default shall impair any such right or be construed to be a waiver of any such Event of Default. The State Water Board may exercise from time to time and as often as shall be deemed expedient by the State Water Board, any remedy or right provided by law or pursuant to this Agreement.

(f) Status Quo. If any action to enforce any right or exercise any remedy shall be brought and either discontinued or determined adversely to the State Water Board, then the State Water Board shall be restored to its former position, rights and remedies as if no such action had been brought.

4.26 Timeliness.

Time is of the essence in this Agreement.

4.27 Unenforceable Provision.

In the event that any provision of this Agreement is unenforceable or held to be unenforceable, then the parties agree that all other provisions of this Agreement have force and effect and shall not be affected thereby.

4.28 Useful Life.

The Recipient warrants that the economic useful life of the Project, commencing at Project Completion, is at least equal to the term of this Agreement, as set forth in Exhibit B.

4.29 Venue.

Any action arising out of this Agreement shall be filed and maintained in the Superior Court in and for the County of Sacramento, California.

4.30 Waiver and Rights of the State Water Board.

Any waiver of rights by the State Water Board with respect to a default or other matter arising under this Agreement at any time shall not be considered a waiver of rights with respect to any other default or matter.

Any rights and remedies of the State Water Board provided for in this Agreement are in addition to any other rights and remedies provided by law.

ARTICLE V TAX COVENANTS

5.1 Purpose.

The purpose of this Article V is to establish the reasonable expectations of the Recipient regarding the Project and the Project Funds, and is intended to be and may be relied upon for purposes of Sections 103, 141 and 148 of the Code and as a certification described in Section 1.148-2(b)(2) of the Treasury Regulations. This Article V sets forth certain facts, estimates and circumstances which form the basis for the Recipient's expectation that neither the Project nor the Bond Funded Portion of the Project Funds is to be used in a manner that would cause the Obligation to be classified as "arbitrage bonds" under Section 148 of the Code or "private activity bonds" under Section 141 of the Code.

5.2 Tax Covenant.

The Recipient agrees that it will not take or authorize any action or permit any action within its reasonable control to be taken, or fail to take any action within its reasonable control, with respect to the Project which would result in the loss of the exclusion of interest on the Bonds from gross income for federal income tax purposes under Section 103 of the Code.

5.3 Governmental Unit.

The Recipient is a state or local governmental unit as defined in Section 1.103-1 of the Treasury Regulations or an instrumentality thereof (a "Governmental Unit") and is not the federal government or any agency or instrumentality thereof.

5.4 Financing of a Capital Project.

The Recipient will use the Project Funds to finance costs it has incurred or will incur for the construction, reconstruction, installation or acquisition of the Project. Such costs shall not have previously been financed with the proceeds of any other issue of tax-exempt obligations.

5.5 Ownership and Operation of Project.

The Recipient exclusively owns and, except as provided in Section 5.12 hereof, operates the Project.

5.6 Temporary Period.

The Recipient reasonably expects that at least eighty-five percent (85%) of the Bond Funded Portion of the Project Funds will be allocated to expenditures for the Project within three (3) years of the earlier of the effective date of this Agreement or the date the Bonds are issued ("Applicable Date"). The Recipient has incurred, or reasonably expects that it will incur within six (6) months of the Applicable Date, a substantial binding obligation (i.e., not subject to contingencies within the control of the Recipient or a related party) to a third party to expend at least five percent (5%) of the Bond Funded Portion of the Project Funds on Project Costs. The completion of acquisition, construction, improvement and equipping of the Project and the allocation of the Bond Funded Portion of the Project Funds to Project Costs will proceed with due diligence.

5.7 Working Capital.

No operational expenditures of the Recipient or any related entity are being, have been or will be financed or refinanced with Project Funds.

5.8 Expenditure of Proceeds.

The Bond Funded Portion of the Project Funds shall be used exclusively for the following purposes: (i) Reimbursement Expenditures (as defined in Section 5.20 below), (ii) Preliminary Expenditures (as defined in Section 5.20 below) in an aggregate amount not exceeding twenty percent (20%) of the Bond Funded Portion of the Project Funds, (iii) capital expenditures relating to the Project originally paid by the Recipient on or after the date hereof, (iv) interest on the Obligation through the later of three (3) years after the Applicable Date or one (1) year after the Project is placed in service, and (v) initial operating expenses directly associated with the Project in the aggregate amount not more than five percent (5%) of the Bond Funded Portion of the Project Funds.

5.9 Private Use and Private Payments.

No portion of the Project Funds or the Project is being, has been or will be used in the aggregate for any activities that constitute a Private Use (as defined below). No portion of the principal of or interest with respect to the Installment Payments will be secured by any interest in property (whether or not the Project) used for a Private Use or in payments in respect of property used for a Private Use, or will be derived from payments in respect of property used for a Private Use. "Private Use" means any activity that constitutes a trade or business that is carried on by persons or entities, other than a Governmental Unit. The leasing of the Project or the access by or the use of the Project by a person or entity other than a Governmental Unit on a basis other than as a member of the general public shall constitute a Private Use. Use by or on behalf of the State of California or any of its agencies, instrumentalities or subdivisions or by any local Governmental Unit and use as a member of the general public will be disregarded in determining whether a Private Use exists. Use under an arrangement that conveys priority rights or other preferential benefits is generally not use on the same basis as the general public. Arrangements providing for use that is available to the general public at no charge or on the basis of rates that are generally applicable and uniformly applied do not convey priority rights or other preferential benefits. For this purpose, rates may be treated as generally applicable and uniformly applied even if (i) different rates apply to different classes of users, such as volume purchasers, if the differences in rates are customary

and reasonable; or (ii) a specially negotiated rate arrangement is entered into, but only if the user is prohibited by federal law from paying the generally applicable rates, and the rates established are as comparable as reasonably possible to the generally applicable rates. An arrangement that does not otherwise convey priority rights or other preferential benefits is not treated, nevertheless, as general public use if the term of the use under the arrangement, including all renewal options, is greater than 200 days. For this purpose, a right of first refusal to renew use under the arrangement is not treated as a renewal option if (i) the compensation for the use under the arrangement is redetermined at generally applicable, fair market value rates that are in effect at the time of renewal; and (ii) the use of the financed property under the same or similar arrangements is predominantly by natural persons who are not engaged in a trade or business.

5.10 No Sale, Lease or Private Operation of the Project.

The Project (or any portion thereof) will not be sold or otherwise disposed of, in whole or in part, to any person who is not a Governmental Unit prior to the final maturity date of the Obligation. The Project will not be leased to any person or entity that is not a Governmental Unit prior to the final maturity date of the Obligation. Except as permitted under Section 5.12 hereof, the Recipient will not enter any contract or arrangement or cause or permit any contract or arrangement to be entered with persons or entities that are not Governmental Units if that contract or arrangement would confer on such persons or entities any right to use the Project on a basis different from the right of members of the general public. The contracts or arrangements contemplated by the preceding sentence include but are not limited to management contracts, take or pay contracts or put or pay contracts, and capacity guarantee contracts.

5.11 No Disproportionate or Unrelated Use.

No portion of the Project Funds or the Project is being, has been, or will be used for a Private Use that is unrelated or disproportionate to the governmental use of the Project Funds.

5.12 Management and Service Contracts.

The Recipient represents that, as of the date hereof, it is not a party to any contract, agreement or other arrangement with any persons or entities engaged in a trade or business (other than Governmental Units) that involve the management or operation of property or the provision of services at or with respect to the Project that does not comply with the standards of the Treasury Regulations, Revenue Procedure 97-13, as modified by Revenue Procedure 2001-39 and IRS Notice 2014-67, or Revenue Procedure 2017-13, as applicable. The Recipient represents that it will not be party to any such contract, agreement or arrangement with any person or entity that is not a Governmental Unit for the management of property or the provision of services at or with respect to the Project, while the Obligation (including any obligation or series thereof issued to refund the Obligation, as the case may be) is outstanding, except: (a) with respect to any contract, agreement or arrangement that does not constitute “private business use” of the Project under Code §141(b), or (b) with respect to any contract, agreement or arrangement that complies with (i) Revenue Procedure 97-13, 1997-1 C.B. 632, as amended by Revenue Procedure 2001-39, 2001-2 C.B. 38, and as amplified by Notice 2014-67, with respect to contracts entered into before August 18, 2017 and not materially modified or extended after August 18, 2017, or (ii) Revenue Procedure 2017-13, with respect to contracts entered into or materially modified or extended on or after August 18, 2017, or (c) with respect to any contract, agreement or arrangement that does not give rise to use of the Bond Funded Portion of the Project Funds or the Project by a non-Governmental Unit of more than the amount of such non-qualified use permitted by the Code, or (d) in the event that the Recipient receives an opinion of counsel, satisfactory to the State Water Board and the Bank and expert in the issuance of state and local government bonds the interest on which is excluded from gross income under Section 103 of the Code (“Nationally-Recognized Bond Counsel”), that such contract, agreement or arrangement will not

adversely affect the exclusion of the interest on the Obligation from gross income for federal income taxation purposes.

5.13 No Disposition of Financed Property.

As of the date hereof, the Recipient does not expect to sell or otherwise dispose of any portion of the Project, in whole or in part, prior to the final maturity date of the Obligation.

5.14 Useful Life of Project.

As of the date hereof, the Recipient reasonably expects that the economic useful life of the Project, commencing at Project Completion, will be at least equal to the term of this Agreement, as set forth on Exhibit B hereto.

5.15 Installment Payments.

Installment Payments generally are expected to be derived from assessments, taxes, fees, charges or other current Revenues of the Recipient in each year, and such current Revenues are expected to equal or exceed the Installment Payments during each payment period. Any amounts accumulated in a sinking fund or bona fide debt service fund to pay Installment Payments (whether or not deposited to a fund or account established by the Recipient) will be disbursed to pay Installment Payments within thirteen months of the initial date of accumulation or deposit. Any such fund used for the payment of Installment Payments will be depleted once a year except for a reasonable carryover amount not exceeding the greater of earnings on such fund or one-twelfth of the Installment Payments in either case for the immediately preceding year.

5.16 No Other Replacement Proceeds.

The Recipient will not use any of the Bond Funded Portion of the Project Funds to replace or substitute other funds of the Recipient that were otherwise to be used to finance the Project or which are or will be used to acquire securities, obligations or other investment property reasonably expected to produce a yield that is materially higher than the yield on the Bonds.

5.17 No Sinking or Pledged Fund.

Except as set forth in Section 5.18 below, the Recipient will not create or establish any sinking fund or pledged fund which will be used to pay Installment Payments on the Obligation within the meaning of Section 1.148-1(c) of the Treasury Regulations. If any sinking fund or pledged fund comes into being with respect to the Obligation before the Obligation has been fully retired which may be used to pay the Installment Payments, the Recipient will invest such sinking fund and pledged fund moneys at a yield that does not exceed the yield on the Bonds.

5.18 Reserve Amount.

The State Water Board requires that the Recipient maintain and fund a separate account in an amount equal to one (1) year of Debt Service with respect to the Obligation (the “Reserve Amount”) as set forth in Section 3.7. The Recipient represents that the Reserve Amount is and will be available to pay debt service with respect to the Obligation, if and when needed. The Reserve Amount consists solely of revenues of the Recipient and does not include any proceeds of any obligations the interest on which is excluded from gross income for federal income tax purposes or investment earnings thereon. The aggregate of the Reserve Amount, up to an amount not exceeding the lesser of (i) ten percent of the aggregate principal amount of the Obligation, (ii) the maximum annual debt service with respect to the Obligation, or (iii) 125 percent of the average annual debt service with respect to the Obligation, will be treated as a reasonably required reserve fund.

5.19 Reimbursement Resolution.

The "reimbursement resolution" adopted by the Recipient is incorporated herein by reference, pursuant to Exhibit A.

5.20 Reimbursement Expenditures.

Reimbursements are disallowed, except as specifically authorized in Exhibit B or Exhibit D of this Agreement. To the extent so authorized, a portion of the Bond Funded Portion of the Project Funds may be applied to reimburse the Recipient for Project Costs paid before the date hereof, so long as the Project Cost was (i) not paid prior to sixty (60) days before the Recipient's adoption of a declaration of official intent to finance the Project, (ii) not paid more than eighteen (18) months prior to the date hereof or the date the Project was placed-in-service, whichever is later, and (iii) not paid more than three (3) years prior to the date hereof (collectively, "Reimbursement Expenditures"), unless such cost is attributable to a "preliminary expenditure." Preliminary expenditure for this purpose means architectural, engineering, surveying, soil testing and similar costs incurred prior to the commencement of construction or rehabilitation of the Project, but does not include land acquisition, site preparation and similar costs incident to the commencement of acquisition, construction or rehabilitation of the Project. Preliminary expenditures may not exceed 20% of the Bond Funded Portion of the Project Funds.

5.21 Change in Use of the Project.

The Recipient reasonably expects to use all of the Bond Funded Portion of the Project Funds and the Project for the entire stated term to maturity of the Obligation. Absent an opinion of Nationally-Recognized Bond Counsel to the effect that such use of the Bond Funded Portion of the Project Funds will not adversely affect the exclusion from federal gross income of interest on the Bonds pursuant to Section 103 of the Code, the Recipient will use the Bond Funded Portion of the Project Funds and the Project solely as set forth in this Agreement.

5.22 Rebate Obligations.

If the Recipient satisfies the requirements of one of the spending exceptions to rebate specified in Section 1.148-7 of the Treasury Regulations, amounts earned from investments, if any, acquired with the Bond Funded Portion of the Project Funds will not be subject to the rebate requirements imposed under Section 148(f) of the Code. If the Recipient fails to satisfy such requirements for any period, it will notify the State Water Board and the Bank immediately and will comply with the provisions of the Code and the Treasury Regulations at such time, including the payment of any rebate amount calculated by the State Water Board or the Bank.

5.23 No Federal Guarantee.

The Recipient will not directly or indirectly use any of the Bond Funded Portion of the Project Funds in any manner that would cause the Bonds to be "federally guaranteed" within the meaning of Section 149(b) of the Code, taking into account various exceptions including any guarantee related to investments during an initial temporary period until needed for the governmental purpose of the Bonds, investments as part of a bona fide debt service fund, investments of a reasonably required reserve or replacement fund, investments in bonds issued by the United States Treasury, investments in refunding escrow funds or certain other investments permitted under the Treasury Regulations.

5.24 No Notices or Inquiries from IRS.

Within the last 10 years, the Recipient has not received any notice of a final action of the Internal Revenue Service that determines that interest paid or payable on any debt obligation of the Recipient is

or was includable in the gross income of an owner or beneficial owner thereof for federal income tax purposes under the Code.

5.25 Amendments.

The provisions in this Article may be amended, modified or supplemented at any time to reflect changes in the Code upon obtaining written approval of the State Water Board and the Bank and an opinion of Nationally-Recognized Bond Counsel to the effect that such amendment, modification or supplement will not adversely affect the exclusion from federal gross income of interest on the Bonds pursuant to Section 103 of the Code.

5.26 Reasonable Expectations.

The Recipient warrants that, to the best of its knowledge, information and belief, and based on the facts and estimates as set forth in the tax covenants in this Article, the expectations of the Recipient as set forth in this Article are reasonable. The Recipient is not aware of any facts or circumstances that would cause it to question the accuracy or reasonableness of any representation made in the provisions in this Article V.

IN WITNESS WHEREOF, this Amendment has been executed by the parties hereto.

CITY OF ROSEVILLE:

By: _____
Name: Dominick Casey
Title: City Manager

Date: _____

STATE WATER RESOURCES CONTROL BOARD:

By: _____
Name: Joe Karkoski
Title: Deputy Director
Division of Financial Assistance

Date: _____

EXHIBIT A – SCOPE OF WORK

1. Eligible Start Date. The Eligible Start Date is May 3, 2019.

2. Start of Construction Date. The Recipient agrees to start construction no later than the estimated date of February 15, 2020.

3. Completion of Construction Date. The Completion of Construction date is hereby established as ~~February 10, 2022~~**January 31, 2023**. The Recipient shall deliver any request for extension of the Completion of Construction date no less than 90 days prior to the Completion of Construction date.

4. Final Disbursement Request Date. The Recipient agrees to ensure that its final Request for Disbursement is received by the Division no later than ~~August 10, 2022~~**July 31, 2023** , unless prior approval has been granted by the Division. Otherwise, the undisbursed balance of this Agreement will be deobligated.

5. Records Retention Date is ~~February 10, 2058~~**January 31, 2059**.

6. Incorporated Documents. Incorporated by reference into this Agreement are the following documents:

    a. [Reserved];

    b. the Waste Discharge Requirement Order No. R5-2014-0051 and National Pollutant Discharge Elimination System Permit No. CA0084573;

    c. the Recipient's Reimbursement Resolution No. 17-427 dated October 4, 2017;

    d. the Recipient's Tax Questionnaire dated September 29, 2017.

7. Reporting. Status Reports due at least quarterly.

8. Scope of Work.

PURPOSE

The Project will allow the Recipients Solid Waste Utility Division to comply with Assembly Bill (AB) 1826 that requires source separation of organics, as well as AB 341 that establishes State of California's recycling goals, and AB 1393 that is aimed at reducing greenhouse gas (GHG) emissions. The capturing of GHG emissions from digesters will provide a more sustainable energy source for Pleasant Grove Wastewater Treatment Plant (PGWWTP).

The purpose of the Energy Recovery Project is to utilize digester gas (DG) generated by anaerobic digesters constructed to offset PGWWTP's energy footprint. The selected Energy Recovery Project offers the following financial and environmental benefits:

- Reduced operating costs in comparison to running a boiler off DG
- Revenue from the sale of renewable natural gas (NG) as vehicle fuel
- Revenue from tipping fees charged for acceptance of high-strength waste (HSW)
- Reduction in electricity costs
- Potential revenue from the generation and sale of Low-Carbon Fuel Standard (LCFS) credits (California incentive)

EXHIBIT A – SCOPE OF WORK

- Potential revenue from the generation and sale of Renewable Identification Numbers (RINs) (federal incentive)
- Alignment with California's climate change initiatives related to renewable energy, recycling, short-lived climate pollutants, and low-carbon-intensity fuels
- A closed-loop project with a net reduction in GHG emissions
- A reduction in Roseville's Solid Waste fleet's GHG emissions and criteria pollutant emissions

SCOPE OF WORK

The Energy Recovery Project will be constructed south of the existing PGWWTP. The Recipient must complete the design, construction, and installation of equipment for the following:

- High Strength Waste (HSW)
- DG conditioning system
- DG separation system
- Fueling station
- Fourmicroturbines

9. Signage.

The Recipient shall place a sign at least four feet tall by eight feet wide made of ¾ inch thick exterior grade plywood or other approved material in a prominent location on the Project site and shall maintain the sign in good condition for the duration of the construction period. The sign must include the following disclosure statement and color logos (available from the Division):

Clean Water State Revolving Fund | California Water Boards | EPA United States Environmental Protection Agency

"Funding for this Pleasant Grove Wastewater Treatment Plant Expansion and Energy Recovery Project Phase 2 project has been provided in full or in part by the Clean Water State Revolving Fund through an agreement with the State Water Resources Control Board. California's Clean Water State Revolving Fund is capitalized through a variety of funding sources, including grants from the United States Environmental Protection Agency and state bond proceeds."

The Project sign may include another agency's required promotional information so long as the above logos and disclosure statement are equally prominent on the sign. The sign shall be prepared in a professional manner.

The Recipient shall include the following disclosure statement in any document, written report, or brochure prepared in whole or in part pursuant to this Agreement:

"Funding for this project has been provided in full or in part through an agreement with the State Water Resources Control Board. California's Clean Water State Revolving Fund is capitalized through a variety of funding sources, including grants from the United States Environmental Protection Agency and state bond proceeds. The contents of this document do not necessarily reflect the views and policies of the foregoing, nor does mention of trade names or commercial products constitute endorsement or recommendation for use."

EXHIBIT A-FBA – FINAL BUDGET APPROVAL

~~f~~Table 1: Approved Construction Bid Amount

CONTRACTOR	AMOUNT BID	APPROVED COSTS
W.M. Lyles Co.	$23,394,729	$20,214,729

Note: Difference between the Amount Bid and Approved Costs amount resulted from the reduce funding amount requested. Additional funding sources secured by the City of Roseville to cover additional costs.

1 - BUDGET

Table 2: Approved Final Project Budget

PROJECT COST TABLE	
TYPE OF WORK	APPROVED BUDGET
A. Construction	
W.M. Lyles Co.	$20,214,729
B. Pre-Purchased Material/Equipment	$0
C. Land Purchase	$0
D. Change Order Contingency	$3,600,000
E. Force Account	**$0**
~~E~~**F**. Allowances	**$5,860,026**
~~Planning~~	~~$0~~
~~Design~~	~~$2,079,026~~
~~Construction Management~~	~~$3,381,000~~
~~Administration~~	~~$400,000~~
~~Value Engineering~~	~~$0~~
~~Subtotal - E~~	~~$5,860,026~~
TOTAL (Subtotal A+B+C+D+E**+F**)	$29,674,755

Note: Adjustments may be made between line items on the final request for disbursement.

EXHIBIT A-FBA – FINAL BUDGET APPROVAL

2 - PROJECT ELIGIBILITY DETERMINATION

The eligibility determinations and conditions of approval identified below are based on the review of:

- Stamped and Signed Final Plan and Specifications (P&S) for the Project received July 6, 2020, dated June 3, 2019 and May 2019, respectively;

- Addenda Nos. 1, 2, 3, 4, 5 and 6, issued June 4, 2018, June 18, 2018, June 27, 2018, July 3, 2019, July 10, 2019, and July 12, 2019, respectively.

The eligibility determination for the bid items shown in the schedule of values provided by the Recipient are as follows:

Table 3: Eligibility Determination Agreement:

Bid Item	Description	Percent Eligibility
2	Site Work	100%
3	Concrete	100%
4	Masonry	100%
5	Metals	100%
6	Wood & Plastics	100%
7	Thermal & Moisture Protection	100%
8	Doors & Windows	100%
9	Finishes	100%
10	Specialties	100%
11	Equipment	100%
15	Piping & Mechanical	100%
16	Electrical & Instrumentation	100%
17	Supervision	100%

Bid items as shown in the schedule of values provided by the Recipient

Eligibility Determination Conditions of Approval

1. Necessary insurance directly related to the construction contract and extending throughout the period of the construction contract will be eligible for CWSRF financing. This includes builder risk insurance, public liability insurance, fire, and Project specific insurance.
2. Earthquake insurance and “Act of God” insurance are ineligible for funding.
3. Asphalt pavement, corresponding improvements, and excavation and refill materials due to trenching are limited to replacement of the trench width plus one foot on each side of the trench disturbed due

to the construction work of the subject contract only. Full lane width paving or slurry seal is eligible only if required by ordinance or code.

4. The cost of local permits and licenses other than those issued by the Recipient are eligible for CWSRF financing.
5. The approved change order contingency may not be increased above the approved contingency shown in Table 2. Any unclaimed construction or allowance costs may also be used towards construction change orders. The change order approval may not: (1) increase the total budget amount listed in Table 2: Approved Final Project Budget, (2) increase the term of the financing agreement, or (3) result in a substantial change in the Project scope.
6. Review of the P&S by the Division is conducted to determine eligibility and administrative compliance with the Policy. Issuance of the FBA does not relieve the Recipient and the design engineer of their legal liability for the adequacy of the design.

3 – PROJECT COMPLETION

Project Completion Report:

The Project completion report shall contain the following:

1. A description of the final constructed Project.
2. A description of the water quality problem the Project sought to address.
3. A discussion of the Project's likelihood of successfully addressing that water quality problem in the future, and
4. Summarize compliance with environmental conditions, if applicable.

Project Completion Reporting:

1. The Recipient must notify the appropriate Regional Water Board and the Division that its Project was completed by submitting a Project Completion Report to the Division with a copy to the Regional Water Board. The Project Completion Report must be submitted on or before the due date established per section XII(B)(2) of the CWSRF Policy.
2. The State Water Board expects the Recipient to prepare and send a timely and complete report. The State Water Board may avail itself of any legal means to obtain this report. (See Water Code §13267.)

EXHIBIT B – FUNDING AMOUNT

1. Estimated Reasonable Cost. The estimated reasonable cost of the total Project, including associated planning and design costs is twenty-nine million six hundred seventy four thousand seven hundred fifty five dollars and no cents ($29,674,755.00).

2. Project Financing. Subject to the terms of this Agreement, the State Water Board agrees to provide Project Funds in the amount of up to twenty-nine million six hundred seventy four thousand seven hundred fifty five dollars no cents ($29,674,755.00). A portion of this amount four million dollars and no cents ($4,000,000.00) is anticipated to be a forgiven. The estimated amount of principal that will be due to the State Water Board under this Agreement is twenty-five million six hundred seventy-four thousand seven hundred fifty five dollars and no cents ($25,674,755.00).

3. Payment, Interest Rate, and Charges. The Recipient agrees to make all Installment Payments according to the schedule in Exhibit C at an interest rate of one three tenths percent (1.3%) per annum. In lieu of, and not to exceed, interest otherwise due under this Agreement, the Recipient agrees to pay the following charge(s), as further set forth in Exhibit C:

    - an Administrative Service Charge
    - a Small Community Grant Fund Charge

4. Contingent Principal Forgiveness. Contingent on the Recipient's performance of its obligations under this Agreement, the State Water Board agrees to forgive up to four million dollars and no cents ($4,000,000.00) of the principal under this Agreement.

5. Useful Life. The useful life of this Project is at least thirty (30) years.

6. The Final Repayment Date is ~~February 10, 2052~~**January 31, 2053**.

7. Budget costs are contained in the Project Cost Table, which is part of Exhibit A-FBA. ~~This Agreement will be amended to incorporate Exhibit A-FBA.~~

EXHIBIT C – PAYMENT SCHEDULE

See the attached preliminary Payment Schedule. The final Payment Schedule will be forwarded to the Recipient after all disbursements have been paid and construction of the Project has been completed.

California CWSRF Payment Schedule

Principal is paid over: **30 Years**

Interest rate: **1.30000%**

Project No. 8215-210 - Roseville, City of
Agreement: D1901012 - based on Projected Disbursements

Pleasant Grove Wastewater Treatment Plant Expansion and Energy Recovery Project phase 2

Ref Num	Due Date	Date Received	Principal Payment	Interest Rate%	Interest Payment	Total P and I Payment	Total Payment	Ending Balance	CPI Interest
1	1/31/2024		717,649.41	1.300	320,847.03	1,038,496.44	1,038,496.44	24,957,105.59	0.00
2	1/31/2025		714,054.07	1.300	324,442.37	1,038,496.44	1,038,496.44	24,243,051.52	0.00
3	1/31/2026		723,336.77	1.300	315,159.67	1,038,496.44	1,038,496.44	23,519,714.75	0.00
4	1/31/2027		732,740.15	1.300	305,756.29	1,038,496.44	1,038,496.44	22,786,974.60	0.00
5	1/31/2028		742,265.77	1.300	296,230.67	1,038,496.44	1,038,496.44	22,044,708.83	0.00
6	1/31/2029		751,915.23	1.300	286,581.21	1,038,496.44	1,038,496.44	21,292,793.60	0.00
7	1/31/2030		761,690.12	1.300	276,806.32	1,038,496.44	1,038,496.44	20,531,103.48	0.00
8	1/31/2031		771,592.09	1.300	266,904.35	1,038,496.44	1,038,496.44	19,759,511.39	0.00
9	1/31/2032		781,622.79	1.300	256,873.65	1,038,496.44	1,038,496.44	18,977,888.60	0.00
10	1/31/2033		791,783.89	1.300	246,712.55	1,038,496.44	1,038,496.44	18,186,104.71	0.00
11	1/31/2034		802,077.08	1.300	236,419.36	1,038,496.44	1,038,496.44	17,384,027.63	0.00
12	1/31/2035		812,504.08	1.300	225,992.36	1,038,496.44	1,038,496.44	16,571,523.55	0.00
13	1/31/2036		823,066.63	1.300	215,429.81	1,038,496.44	1,038,496.44	15,748,456.92	0.00
14	1/31/2037		833,766.50	1.300	204,729.94	1,038,496.44	1,038,496.44	14,914,690.42	0.00
15	1/31/2038		844,605.46	1.300	193,890.98	1,038,496.44	1,038,496.44	14,070,084.96	0.00
16	1/31/2039		855,585.34	1.300	182,911.10	1,038,496.44	1,038,496.44	13,214,499.62	0.00
17	1/31/2040		866,707.94	1.300	171,788.50	1,038,496.44	1,038,496.44	12,347,791.68	0.00
18	1/31/2041		877,975.15	1.300	160,521.29	1,038,496.44	1,038,496.44	11,469,816.53	0.00
19	1/31/2042		889,388.83	1.300	149,107.61	1,038,496.44	1,038,496.44	10,580,427.70	0.00
20	1/31/2043		900,950.88	1.300	137,545.56	1,038,496.44	1,038,496.44	9,679,476.82	0.00
21	1/31/2044		912,663.24	1.300	125,833.20	1,038,496.44	1,038,496.44	8,766,813.58	0.00
22	1/31/2045		924,527.86	1.300	113,968.58	1,038,496.44	1,038,496.44	7,842,285.72	0.00
23	1/31/2046		936,546.73	1.300	101,949.71	1,038,496.44	1,038,496.44	6,905,738.99	0.00
24	1/31/2047		948,721.83	1.300	89,774.61	1,038,496.44	1,038,496.44	5,957,017.16	0.00
25	1/31/2048		961,055.22	1.300	77,441.22	1,038,496.44	1,038,496.44	4,995,961.94	0.00
26	1/31/2049		973,548.93	1.300	64,947.51	1,038,496.44	1,038,496.44	4,022,413.01	0.00
27	1/31/2050		986,205.07	1.300	52,291.37	1,038,496.44	1,038,496.44	3,036,207.94	0.00
28	1/31/2051		999,025.74	1.300	39,470.70	1,038,496.44	1,038,496.44	2,037,182.20	0.00
29	1/31/2052		1,012,013.07	1.300	26,483.37	1,038,496.44	1,038,496.44	1,025,169.13	0.00
30	1/31/2053		1,025,169.13	1.300	13,327.20	1,038,496.33	1,038,496.33	0.00	0.00
			25,674,755.00		**5,480,138.09**	**31,154,893.09**	**31,154,893.09**		**0.00**

EXHIBIT D – SPECIAL CONDITIONS

Recipient acknowledges and agrees to the following special conditions:

Environmental:

The documents identified below are incorporated by reference and the Recipient shall comply with the conditions and recommendations therein:

1. The adopted November 7, 2018 Mitigation Monitoring and Reporting Program, including, but not limited to, the following mitigation measures:

- 3.4-1 for biological resources, and
- 3.5-1 and 3.5-2 for cultural resources

The Recipient shall make no changes in the Project, construction area, or Special Conditions, without obtaining the appropriate and necessary prior approval(s) from the State Water Board.

REPORTING TO THE STATE WATER BOARD

1. In its status reports submitted pursuant to this Agreement, the Recipient shall include a discussion of the status of its compliance with environmental measures identified in this Exhibit D.

2. In its Project Completion Report submitted pursuant to this Agreement, the Recipient shall include a discussion of compliance with environmental measures identified in this Exhibit D.

Legal:

1. As a condition precedent to this Agreement, the Recipient must deliver an opinion of bond counsel and general counsel satisfactory to the State Water Board's counsel.

2. As a condition precedent to this Agreement, the Recipient must deliver to the Division a resolution authorizing this Agreement.

3. Russian Sanctions.

The Recipient represents that the Recipient is not a target of economic sanctions imposed in response to Russia's actions in Ukraine imposed by the United States government or the State of California. The Recipient is required to comply with the economic sanctions imposed in response to Russia's actions in Ukraine, including with respect to, but not limited to, the federal executive orders identified in California Executive Order N-6-22, located at https://www.gov.ca.gov/wp-content/uploads/2022/03/3.4.22-Russia-Ukraine-Executive-Order.pdf and the sanctions identified on the United States Department of the Treasury website (https://home.treasury.gov/policy-issues/financial-sanctions/sanctions-programs-and-country-information/ukraine-russia-related-sanctions). The Recipient is required to comply with all applicable reporting requirements regarding compliance with the economic sanctions, including, but not limited to, those reporting requirements set forth in California Executive Order N-6-22 for all Recipients with one or more agreements with the State of California with an aggregated value of Five Million Dollars ($5,000,000) or more. Notwithstanding any other provision in this Agreement, failure to comply with the economic sanctions and all applicable reporting requirements may result in termination of this Agreement.

For Recipients with an aggregated agreement value of Five Million Dollars ($5,000,000) or more with the State of California, reporting requirements include, but are not limited to,

information related to steps taken in response to Russia's actions in Ukraine, including but not limited to:

a. Desisting from making any new investments or engaging in financial transactions with Russian institutions or companies that are headquartered or have their principal place of business in Russia;

b. Not transferring technology to Russia or companies that are headquartered or have their principal place of business in Russia; and

c. Direct support to the government and people of Ukraine.

EXHIBIT E – PROGRAMMATIC CONDITIONS & CROSS-CUTTERS

The Recipient agrees to comply with the following federal conditions:

(A) Federal Award Conditions

(1) American Iron and Steel. Unless the Recipient has obtained a waiver from USEPA on file with the State Water Board or unless this Project is not a project for the construction, alteration, maintenance or repair of a public water system or treatment work, the Recipient shall not purchase “iron and steel products” produced outside of the United States on this Project. Unless the Recipient has obtained a waiver from USEPA on file with the State Water Board or unless this Project is not a project for the construction, alteration, maintenance or repair of a public water system or treatment work, the Recipient hereby certifies that all “iron and steel products” used in the Project were or will be produced in the United States. For purposes of this section, the term "iron and steel products" means the following products made primarily of iron or steel: lined or unlined pipes and fittings, manhole covers and other municipal castings, hydrants, tanks, flanges, pipe clamps and restraints, valves, structural steel, reinforced precast concrete, and construction materials. “Steel” means an alloy that includes at least 50 percent iron, between .02 and 2 percent carbon, and may include other elements.

(2) Wage Rate Requirements (Davis-Bacon). The Recipient shall include in full the language provided in Exhibit G of this Agreement in all contracts and subcontracts.

(3) Signage Requirements. The Recipient shall comply with the USEPA’s Guidelines for Enhancing Public Awareness of SRF Assistance Agreements, dated June 3, 2015, as otherwise specified in this Agreement.

(4) Public or Media Events. The Recipient shall notify the State Water Board and the EPA contact as provided in the notice provisions of this Agreement of public or media events publicizing the accomplishment of significant events related to this Project and provide the opportunity for attendance and participation by federal representatives with at least ten (10) working days’ notice.

(5) EPA General Terms and Conditions (USEPA GTCs). The Recipient shall comply with applicable EPA general terms and conditions found at http://www.epa.gov/ogd, including but not limited to the following:

(a) DUNS. No Recipient may receive funding under this Agreement unless it has provided its DUNS number to the State Water Board.

(b) Executive Compensation. The Recipient shall report the names and total compensation of each of its five most highly compensated executives for the preceding completed fiscal year, as set forth in the USEPA GTCs.

(c) Federal Exclusion or Disqualification. The Recipient represents and warrants that it and its principals are not excluded or disqualified from participating in this transaction as such terms are defined in Parts 180 and 1532 of Title 2 of the Code of Federal Regulations (2 CFR). If the Recipient is excluded after execution of this Agreement, the Recipient shall notify the Division within ten (10) days and shall inform the Division of the Recipient’s exclusion in any request for amendment of this Agreement. The Recipient shall comply with Subpart C of Part 180 of 2 CFR, as supplemented by Subpart C of Part 1532 of 2 CFR. Such compliance is a condition precedent to the State Water Board’s performance of

its obligations under this Agreement. When entering into a covered transaction as defined in Parts 180 and 1532 of 2 CFR, the Recipient shall require the other party to the covered transaction to comply with Subpart C of Part 180 of 2 CFR, as supplemented by Subpart C of Part 1532 of 2 CFR.

(d) Conflict of Interest. To the extent applicable, the Recipient shall disclose to the State Water Board any potential conflict of interest consistent with USEPA's Final Financial Assistance Conflict of Interest Policy at https://www.epa.gov/grants/epas-final-financial-assistance-conflict-interest-policy. A conflict of interest may result in disallowance of costs.

(e) Copyright and Patent.

i. USEPA and the State Water Board have the right to reproduce, publish, use and authorize others to reproduce, publish and use copyrighted works or other data developed under this assistance agreement.
ii. Where an invention is made with Project Funds, USEPA and the State Water Board retain the right to a worldwide, nonexclusive, nontransferable, irrevocable, paid-up license to practice the invention owned by the Recipient. The Recipient must utilize the Interagency Edison extramural invention reporting system at http://iEdison.gov and shall notify the Division when an invention report, patent report, or utilization report is filed.

(f) Credit. The Recipient agrees that any reports, documents, publications or other materials developed for public distribution supported by this Agreement shall contain the following statement:

"This project has been funded wholly or in part by the United States Environmental Protection Agency and the State Water Resources Control Board. The contents of this document do not necessarily reflect the views and policies of the Environmental Protection Agency or the State Water Resources Control Board, nor does the EPA or the Board endorse trade names or recommend the use of commercial products mentioned in this document."

(g) Electronic and Information Technology Accessibility. The Recipient is encouraged to follow guidelines established under Section 508 of the Rehabilitation Act, codified at 36 CFR Part 1194, with respect to enabling individuals with disabilities to participate in its programs supported by this Project.

(h) Trafficking in Persons. The Recipient, its employees, contractors and subcontractors and their employees may not engage in severe forms of trafficking in persons, procure a commercial sex act during the term of this Agreement, or use forced labor in the performance of this Agreement. The Recipient must include this provision in its contracts and subcontracts under this Agreement. The Recipient must inform the State Water Board immediately of any information regarding a violation of the foregoing. The Recipient understands that failure to comply with this provision may subject the State Water Board to loss of federal funds. The Recipient agrees to compensate the State Water Board for any such funds lost due to its failure to comply with this condition, or the failure of its contractors or subcontractors to comply with this condition. The State Water Board may unilaterally terminate this Agreement if the Recipient that is a private entity is

determined to have violated the foregoing. Trafficking Victims Protection Act of 2000.

(B) Super Cross-Cutters - Civil Rights Obligations. The Recipient must comply with the following federal non-discrimination requirements:

(1) Title VI of the Civil Rights Act of 1964, which prohibits discrimination based on race, color, and national origin, including limited English proficiency (LEP).

(2) Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination against persons with disabilities.

(3) The Age Discrimination Act of 1975, which prohibits age discrimination.

(4) Section 13 of the Federal Water Pollution Control Act Amendments of 1972, which prohibits discrimination on the basis of sex.

(5) 40 CFR Part 7, as it relates to the foregoing.

(C) WRRDA Conditions

(1) Architectural and engineering contracts. Where the Recipient contracts for program management, construction management, feasibility studies, preliminary engineering, design, engineering, surveying, mapping, or architectural related services, the Recipient shall ensure that any such contract is negotiated in the same manner as a contract for architectural and engineering services is negotiated under chapter 11 of title 40, United States Code, or an equivalent State qualifications-based requirement as determined by the State Water Board.

(2) Fiscal sustainability. The Recipient certifies that it has developed and is implementing a fiscal sustainability plan for the Project that includes an inventory of critical assets that are a part of the Project, an evaluation of the condition and performance of inventoried assets or asset groupings, a certification that the recipient has evaluated and will be implementing water and energy conservation efforts as part of the plan, and a plan for maintaining, repairing, and, as necessary, replacing the Project and a plan for funding such activities.

(D) Cross-Cutters

1) Executive Order No. 11246. The Recipient shall include in its contracts and subcontracts related to the Project the following provisions:

"During the performance of this contract, the contractor agrees as follows:"(a) The contractor will not discriminate against any employee or applicant for employment because of race, creed, color, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, creed, color, or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.

"(b) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, color, or national origin.

"(c) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under Section 202 of Executive Order No. 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

"(d) The contractor will comply with all provisions of Executive Order No. 11246 of Sept. 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

"(e) The contractor will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

"(f) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be cancelled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order No. 11246 of Sept 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order No. 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

"(g) The contractor will include the provisions of Paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order No. 11246 of Sept. 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the contracting agency may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, That in the event the contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States."

(2) Disadvantaged Business Enterprises (40 CFR Part 33). The Recipient agrees to comply with the requirements of USEPA's Program for Utilization of Small, Minority and Women's Business Enterprises. The DBE rule can be accessed at www.epa.gov/osbp . The Recipient shall comply with, and agrees to require its prime contractors to comply with 40 CFR Section 33.301, and retain all records documenting compliance with the six good faith efforts. (IUP)

(3) Procurement Prohibitions under Section 306 of the Clean Air Act and Section 508 of the Clean Water Act, including Executive Order 11738, Administration of the Clean Air Act and the Federal Water Pollution Control Act with Respect to Federal Contracts, Grants, or Loans; 42 USC § 7606; 33 USC § 1368. Except where the purpose of this Agreement is to remedy the cause of the violation, the Recipient may not procure goods, services, or materials from suppliers excluded under the federal System for Award Management: http://www.sam.gov/ .

(4) Uniform Relocation and Real Property Acquisition Policies Act, Pub. L. 91-646, as amended; 42 USC §§4601-4655. The Recipient must comply with the Act's implementing regulations at 49 CFR 24.101 through 24.105.

(5) The Recipient agrees that if its network or information system is connected to USEPA networks to transfer data using systems other than the Environmental Information Exchange Network or USEPA's Central Data Exchange, it will ensure that any connections are secure.

(E) Geospatial Data Standards

All geospatial data created pursuant to this Agreement that is submitted to the State Water Board for use by USEPA or that is submitted directly to USEPA must be consistent with Federal Geographic Data Committee endorsed standards. Information on these standards may be found at www.fgdc.gov.

EXHIBIT F – SCHEDULE OF SYSTEM OBLIGATIONS

Except for the following and the Obligation evidenced by this Agreement, the Recipient certifies that it has no outstanding System Obligations or Other Material Obligations, and that it is in compliance with all applicable additional debt provisions of the following:

The following outstanding debt is senior to the Obligation:

Title
None

The following outstanding debt is on parity with the Obligation:

Title
Amended and Restated Funding Agreement Relating to the South Placer Regional Wastewater Facilities, dated as of October 1, 2012, by and between the City of Roseville and the South Placer Wastewater Authority for the purposes of securing the Recipient's portion of the following debts of the South Placer Wastewater Authority: SWAP – Morgan Stanley, 2011C – BNY, 2013 – US Bank, and 2017 – US Bank.

The following outstanding debt is subordinate to the Obligation:

Title
None

EXHIBIT G – DAVIS BACON REQUIREMENTS

For purposes of this Exhibit only, "subrecipient" or "sub recipient" means the Recipient as defined in this Agreement.

For purposes of this Exhibit only, "recipient" or "State recipient" means the State Water Board.

I. Requirements Under The Water Resources Reform and Development Act of 2014 (WRRDA) For Sub recipients That Are Governmental Entities:

If a sub recipient has questions regarding when DB applies, obtaining the correct DB wage determinations, DB provisions, or compliance monitoring, it may contact the State Water Board at DavisBacon@waterboards.ca.gov or phone (916) 327-7323. The recipient or sub recipient may also obtain additional guidance from DOL's website at http://www.dol.gov/whd/.

1. Applicability of the Davis- Bacon (DB) prevailing wage requirements.
Under the Water Resources Reform and Development Act of 2014 (WRRDA), DB prevailing wage requirements apply to the construction, alteration, and repair of treatment works carried out in whole or in part with assistance made available by a State water pollution control revolving fund. If a sub recipient encounters a unique situation at a site that presents uncertainties regarding DB applicability, the sub recipient must discuss the situation with the recipient State before authorizing work on that site.

2. Obtaining Wage Determinations.
(a) Sub recipients shall obtain the wage determination for the locality in which a covered activity subject to DB will take place prior to issuing requests for bids, proposals, quotes or other methods for soliciting contracts (solicitation) for activities subject to DB. These wage determinations shall be incorporated into solicitations and any subsequent contracts. Prime contracts must contain a provision requiring that subcontractors follow the wage determination incorporated into the prime contract.

(i) While the solicitation remains open, the sub recipient shall monitor www.wdol.gov weekly to ensure that the wage determination contained in the solicitation remains current. The sub recipients shall amend the solicitation if DOL issues a modification more than 10 days prior to the closing date (i.e. bid opening) for the solicitation. If DOL modifies or supersedes the applicable wage determination less than 10 days prior to the closing date, the sub recipients may request a finding from the State recipient that there is not a reasonable time to notify interested contractors of the modification of the wage determination. The State recipient will provide a report of its findings to the sub recipient.

(ii) If the sub recipient does not award the contract within 90 days of the closure of the solicitation, any modifications or supersedes DOL makes to the wage determination contained in the solicitation shall be effective unless the State recipient, at the request of the sub recipient, obtains an extension of the 90 day period from DOL pursuant to 29 CFR 1.6(c)(3)(iv). The sub recipient shall monitor www.wdol.gov on a weekly basis if it does not award the contract within 90 days of closure of the solicitation to ensure that wage determinations contained in the solicitation remain current.

(b) If the sub recipient carries out activity subject to DB by issuing a task order, work assignment or similar instrument to an existing contractor (ordering instrument) rather than by publishing a solicitation, the sub recipient shall insert the appropriate DOL wage determination from www.wdol.gov into the ordering instrument.

(c) Sub recipients shall review all subcontracts subject to DB entered into by prime contractors to verify that the prime contractor has required its subcontractors to include the applicable wage determinations.

(d) As provided in 29 CFR 1.6(f), DOL may issue a revised wage determination applicable to a sub recipient's contract after the award of a contract or the issuance of an ordering instrument if DOL determines that the sub recipient has failed to incorporate a wage determination or has used a wage determination that clearly does not apply to the contract or

ordering instrument. If this occurs, the sub recipient shall either terminate the contract or ordering instrument and issue a revised solicitation or ordering instrument or incorporate DOL's wage determination retroactive to the beginning of the contract or ordering instrument by change order. The sub recipient's contractor must be compensated for any increases in wages resulting from the use of DOL's revised wage determination.

3. Contract and Subcontract provisions.

(a) The Recipient shall insure that the sub recipient(s) shall insert in full in any contract in excess of $2,000 which is entered into for the actual construction, alteration and/or repair, including painting and decorating, of a treatment work under the CWSRF - financed in whole or in part from Federal funds or in accordance with guarantees of a Federal agency or financed from funds obtained by pledge of any contract of a Federal agency to make a loan, grant or annual contribution (except where a different meaning is expressly indicated), and which is subject to the labor standards provisions of any of the acts listed in § 5.1 or FY 2014 Water Resource Reform and Development Act, the following clauses:

(1) Minimum wages.

(i) All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (a)(1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in § 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph (a)(1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

Sub recipients may obtain wage determinations from the U.S. Department of Labor's web site, www.dol.gov.

(ii) (A) The sub recipient(s), on behalf of EPA, shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The State award official shall approve a request for an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

1 The work to be performed by the classification requested is not performed by a classification in the wage determination; and
2 The classification is utilized in the area by the construction industry; and
3 The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the sub recipient(s) agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), documentation of the action taken and the request, including the local wage determination shall be sent by the sub recipient (s) to the State award official. The State award official will transmit the request, to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210 and to the EPA DB Regional Coordinator concurrently. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification request within 30 days of receipt and so advise the State award official or will notify the State award official within the 30-day period that additional time is necessary.

(C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the sub recipient(s) do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the award official shall refer the request and the local wage determination, including the views of all interested parties and the recommendation of the State award official, to the Administrator for determination. The request shall be sent to the EPA DB Regional Coordinator concurrently. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt of the request and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(ii)(B) or (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

(2) Withholding. The sub recipient(s), shall upon written request of the EPA Award Official or an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and

mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the (Agency) may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

(3) Payrolls and basic records.

(i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(ii) (A) The contractor shall submit weekly, for each week in which any contract work is performed, a copy of all payrolls to the sub recipient, that is, the entity that receives the sub-grant or loan from the State capitalization grant recipient. Such documentation shall be available on request of the State recipient or EPA. As to each payroll copy received, the sub recipient shall provide written confirmation in a form satisfactory to the State indicating whether or not the project is in compliance with the requirements of 29 CFR 5.5(a)(1) based on the most recent payroll copies for the specified week. The payrolls shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on the weekly payrolls. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at https://www.dol.gov/whd/forms/index.htm or its successor site.

The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the sub recipient(s) for transmission to the State or EPA if requested by EPA, the State, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security

numbers to the prime contractor for its own records, without weekly submission to the sub recipient(s).

(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

1 That the payroll for the payroll period contains the information required to be provided under § 5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under § 5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

2 That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

3 That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (a)(3)(ii)(B) of this section.

(D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under paragraph (a)(3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the State, EPA or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency or State may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

(4) Apprentices and trainees

(i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage

rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or sub contractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment

opportunity requirements of Executive Order 11246, as amended and 29 CFR part 30.

(5) Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

(6) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the EPA determines may by appropriate, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

(7) Contract termination; debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

(8) Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

(9) Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and sub recipient(s), State, EPA, the U.S. Department of Labor, or the employees or their representatives.

(10) Certification of eligibility.

(i) By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

4. Contract Provision for Contracts in Excess of $100,000.

(a) Contract Work Hours and Safety Standards Act. The sub recipient shall insert the following clauses set forth in paragraphs (a)(1), (2), (3), and (4) of this section in full in any contract in an amount in excess of $100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by Item 3, above or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

(1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

(2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (a)(1) of this section the contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with

respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (a)(1) of this section, in the sum of $25 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (a)(1) of this section.

(3) Withholding for unpaid wages and liquidated damages. The sub recipient, upon written request of the EPA Award Official or an authorized representative of the Department of Labor, shall withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.

(4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (a)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (a)(1) through (4) of this section.

(b) In addition to the clauses contained in Item 3, above, in any contract subject only to the Contract Work Hours and Safety Standards Act and not to any of the other statutes cited in 29 CFR 5.1, the Sub recipient shall insert a clause requiring that the contractor or subcontractor shall maintain payrolls and basic payroll records during the course of the work and shall preserve them for a period of three years from the completion of the contract for all laborers and mechanics, including guards and watchmen, working on the contract. Such records shall contain the name and address of each such employee, social security number, correct classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. Further, the Sub recipient shall insert in any such contract a clause providing that the records to be maintained under this paragraph shall be made available by the contractor or subcontractor for inspection, copying, or transcription by authorized representatives of the (write the name of agency) and the Department of Labor, and the contractor or subcontractor will permit such representatives to interview employees during working hours on the job.

5. Compliance Verification

(a) The sub recipient shall periodically interview a sufficient number of employees entitled to DB prevailing wages (covered employees) to verify that contractors or subcontractors are paying the appropriate wage rates. As provided in 29 CFR 5.6(a)(3), all interviews must be conducted in confidence. The sub recipient must use Standard Form 1445 (SF 1445) or equivalent documentation to memorialize the interviews. Copies of the SF 1445 are available from EPA on request.

(b) The sub recipient shall establish and follow an interview schedule based on its assessment of the risks of noncompliance with DB posed by contractors or subcontractors and the duration of the contract or subcontract. Sub recipients must conduct more frequent interviews if the initial interviews or other information indicated that there is a risk that the contractor or subcontractor is not complying with DB.
Sub recipients shall immediately conduct interviews in response to an alleged violation of the prevailing wage requirements. All interviews shall be conducted in confidence.

(c) The sub recipient shall periodically conduct spot checks of a representative sample of weekly payroll data to verify that contractors or subcontractors are paying the appropriate wage rates. The sub recipient shall establish and follow a spot check schedule based on its assessment of the risks of noncompliance with DB posed by contractors or subcontractors and the duration of the contract or subcontract. At a minimum, if practicable, the sub recipient should spot check payroll data within two weeks of each contractor or subcontractor's

submission of its initial payroll data and two weeks prior to the completion date the contract or subcontract. Sub recipients must conduct more frequent spot checks if the initial spot check or other information indicates that there is a risk that the contractor or subcontractor is not complying with DB. In addition, during the examinations the sub recipient shall verify evidence of fringe benefit plans and payments there under by contractors and subcontractors who claim credit for fringe benefit contributions.

(d) The sub recipient shall periodically review contractors and subcontractor's use of apprentices and trainees to verify registration and certification with respect to apprenticeship and training programs approved by either the U.S Department of Labor or a state, as appropriate, and that contractors and subcontractors are not using disproportionate numbers of, laborers, trainees and apprentices. These reviews shall be conducted in accordance with the schedules for spot checks and interviews described in Item 5(b) and (c) above.

(e) Sub recipients must immediately report potential violations of the DB prevailing wage requirements to the EPA DB contact listed above and to the appropriate DOL Wage and Hour District Office listed at https://www.dol.gov/whd/local/.

EXHIBIT H – COMPLIANCE WITH CROSS-CUTTING STATE AUTHORITIES

1. CALIFORNIA DEBT INVESTMENT ADVISORY COMMISSION (CDIAC)

Where Recipient is a public entity, Recipient acknowledges its responsibility to file debt obligations with the CDIAC. Recipient understands that CDIAC has waived filing fees for State Water Board SRF debt.

2. COMPLIANCE WITH STATE REQUIREMENTS

Recipient represents that it complies with the following conditions precedent and shall continue to maintain compliance:

(1) Water Conservation

The Recipient certifies that it complies with and shall continue to comply with any applicable water conservation requirements, including regulations in Division 3 of Title 23 of the California Code of Regulations.

(2) Monthly Water Diversion Reporting

If Recipient is a water diverter, Recipient must maintain compliance with Water Code section 5103, subdivision (e)(2)(A) by submitting monthly diversion reports to the Division of Water Rights of the State Water Resources Control Board.

(3) Public Works Contractor Registration with Department Of Industrial Relations

To bid for public works contracts, Recipient and Recipient's subcontractors must register with the Department of Industrial Relations as required by Labor Code sections 1725.5 and 1771.1.

(4) Volumetric Pricing & Water Meters

If Recipient is an "urban water supplier" as defined by Water Code section 10617, Recipient must charge each customer for actual water volume measured by water meter according to the requirements of Water Code sections 526 and 527. Section 527 further requires that such suppliers not subject to section 526 install water meters on all municipal and industrial service connections within their service area by 2025.

(5) Urban Water Management Plan

If Recipient is an "urban water supplier" as defined by Water Code section 10617, the Recipient certifies that this Project complies with the Urban Water Management Planning Act (Water Code, § 10610 et seq.). This shall constitute a condition precedent to this Agreement.

(6) Urban Water Demand Management

If Recipient is an "urban water supplier" as defined by Water Code section 10617, Recipient must comply with water conservation measures established by SBx7-7. (Water Code, Sec. 10608.56.)

(7) Delta Plan Consistency Findings

If Recipient is a state or local public agency and the proposed action is covered by the Delta Plan, Recipient must submit certification of project consistency with the Delta Plan to the Delta

EXHIBIT H – COMPLIANCE WITH CROSS-CUTTING STATE AUTHORITIES

Stewardship Council according to the requirements of Water Code section 85225 and California Code of Regulations, title 23, section 5002.

(8) Agricultural Water Management Plan Consistency

If Recipient is an agricultural water supplier as defined by Water Code section 10608.12, Recipient must comply with Agricultural Water Management Planning requirements as mandated by Water Code section 10852.

(9) Charter City Project Labor Requirements

If Recipient is a charter city as defined in Labor Code section 1782, subdivision (d)(2), Recipient will comply with the requirements of Labor Code section 1782 and Public Contract Code section 2503 as discussed in the following subparts (1) and (2).

(a) Prevailing Wage

Recipient certifies that it is eligible for state funding assistance notwithstanding Labor Code section 1782.

Specifically Recipient certifies that no charter provision nor ordinance authorizes a construction project contractor not to comply with Labor Code's prevailing wage rate requirements, nor, within the prior two years (starting from January 1, 2015 or after) has the city awarded a public works contract without requiring the contractor to comply with such wage rate requirements according to Labor Code section 1782.

(b) Labor Agreements

Recipient certifies that no charter provision, initiative, or ordinance limits or constrains the city's authority or discretion to adopt, require, or utilize project labor agreements that include all the taxpayer protection antidiscrimination provisions of Public Contract Code section 2500 in construction projects, and that Recipient is accordingly eligible for state funding or financial assistance pursuant to Public Contract Code section 2503.

COUNCIL COMMUNICATION

CC #: 2264
File #: 0721

Title:	Sierra Joint Community College District - Fareless Student Transit Pilot Program and Reimbursement Agreement
Contact:	Ed Scofield 916-774-5449 ecscofield@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.11.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council adopt a resolution authorizing the City Manager or his designee to execute a reimbursement agreement with the Sierra Joint Community College District for Roseville Transit to receive partial reimbursement for providing free fares to Sierra College students during a three-year pilot program running through June 30, 2025.

BACKGROUND

Beginning in 2019, Roseville Transit coordinated with the Placer County Transportation Planning Agency (PCTPA), Placer County Transit (PCT), Auburn Transit, and Sierra College to develop a free fare program for Sierra College students. The free fare program consisted of students fees covering the costs for free fares and was to be voted on by the student body in March of 2020. However, because of the COVID-19 pandemic, the vote was cancelled and the plans were put on hold.

In 2021, Roseville Transit staff began discussions again with PCTPA, PCT, Auburn Transit, and Sierra College to establish a revised pilot program with funding participation from Sierra College. A revised Sierra College free fare plan has now been developed in which Sierra College will reimburse Roseville Transit, PCT, and Auburn Transit 50% of the cost of lost fare revenue for providing free boardings to Sierra College students. If approved, the program will begin at the start of the Fall 2022 semester on August 22, 2022 and will end on June 30, 2025. Sierra College is budgeting approximately $200,000 per year to support this program.

In an effort to support this Sierra College free fares program, staff is proposing, under a separate Council Communication, to modify Roseville Transit's Sierra College bus service to provide more direct bus service between the Sierra Gardens Transfer Center, Galleria Mall, and Sierra College's Rocklin campus. This bus service (routes E and G) was suspended in 2020 due to COVID-19, but is scheduled to begin operating again on August 22, 2022. Staff believes that these proposed changes, along with the implementation of the Sierra College pass program, will result in increased ridership over the previous underperforming routes.

The attached Sierra College Fareless Student Transit Pilot Program Reimbursement Agreement has been reviewed by both the City and Sierra College. The content of the agreement has been approved. However, as a public agency, Sierra College is unable to sign the agreement until after approval at the August 9, 2022 Board of Trustees meeting.

FISCAL IMPACT

Under the assumption that ridership returns to pre-pandemic levels, plus additional ridership induced by free fares for students, total average fares per year associated with this program is estimated to be $51,606. The proposed agreement obligates Sierra College to pay Roseville Transit 50% of these costs, which would total $25,803 per year based on current estimates. The remaining $25,803 would be absorbed by Roseville Transit's operations budget. Roseville Transit will use existing Federal Transit Administration funding from different Coronavirus relief packages and, if necessary, Local Transportation Funds, to cover the loss in fare revenue. This proposed action will not impact the FY2022-23 Roseville Transit budget and does not require additional hours of service. There is no impact to the General Fund.

ENVIRONMENTAL REVIEW

The proposed actions are administrative activities for funding and are therefore not projects pursuant to California Environmental Quality Act (CEQA) Guidelines section 15378 and are exempt under section 15061(b)(3). The proposed actions are also statutorily exempt from CEQA pursuant to Public Resources Code section 21080(b)(10).

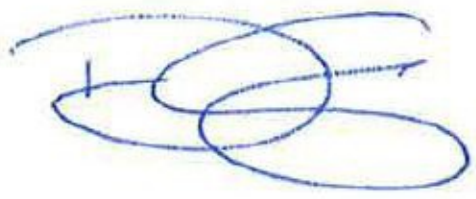
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal C - Maintain a safe and healthy community
Goal E - Deliver exceptional city services

Respectfully Submitted,

Ed Scofield, Alternative Transportation Manager

Jason Shykowski, Public Works Director



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 22-326

Sierra College Reimbursement Agreement

RESOLUTION NO. 22-326

APPROVING A REIMBURSEMENT AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND SIERRA JOINT COMMUNITY COLLEGE DISTRICT, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, beginning in 2019, Roseville Transit coordinated with the Placer County Transportation Planning Agency, Placer County Transit, Auburn Transit, and Sierra College to develop a free fare program for Sierra College students; and

WHEREAS, the free fare program consisted of students fees covering the costs for free fares and was to be voted on by the student body in March of 2020, however, because of the COVID-19 pandemic, the vote was cancelled and the plans were put on hold; and

WHEREAS, if approved, the program will begin at the start of the Fall 2022 semester on August 22, 2022 and will end on June 30, 2025. Sierra College is budgeting approximately $200,000 per year to support this program; and

WHEREAS, a Sierra Community College Fareless Student Transit Pilot Program and Reimbursement Agreement, by and between Sierra Joint Community College and the City of Roseville, has been reviewed by City Council.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said Sierra Community College Fareless Student Transit Pilot Program and Reimbursement Agreement is hereby approved and that the City Manager is authorized to execute it on behalf of the City of Roseville; and

PASSED AND ADOPTED by the Council of the City of Roseville this____day of _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

SIERRA COMMUNITY COLLEGE FARELESS STUDENT TRANSIT PILOT PROGRAM AND REIMBURSEMENT AGREEMENT

This Fareless Student Transit Pass Pilot Program and Reimbursement Agreement (the "**Agreement**") is made as of the _____ day of August, 2022 ("**Effective Date**") by and between City of Roseville, a municipal corporation providing public transit services ("**Agency**") and Sierra Joint Community College District (**"College"** or **"District"**), sometimes referred to individually as "**Party**" and collectively as the "**Parties**".

RECITALS

A. The District and Agency have established a Fareless Student Transit Pass Pilot Program (the "**Program**") to increase student access to available public transit services, increase student transit ridership, and create a new generation of transit riders. The Program allows any eligible College student to board Agency's public transit services without paying a fare, provided that the student displays a valid form of identification to the transit vehicle operator when boarding the transit service.

B. The District has agreed to share in the cost of the Program as defined below in Sections 4 and 5 of this Agreement.

C. Program participation is for a three-year pilot program beginning August 22, 2022, and ending June 30, 2025. ("**Pilot Period**").

   a. Year 1 of the Pilot Period is from August 22, 2022, through June 30, 2023
   b. Year 2 of the Pilot Period is from July 1, 2023, through June 30, 2024
   c. Year 3 of the Pilot Period is from July 1, 2024, through June 30, 2025
   d. The periods will be referred to as **"Pilot Year"**.

D. Under the Program, District shall be authorized to advertise and make available the Fareless Student Transit Pass Pilot Program to its students (**"Participant"** or **"Participants"**) on the terms and conditions provided herein and will receive a quarterly invoice (**"Invoice")** from Agency for the reimbursement of a portion of transit fare revenues lost from Participants accessing Agency's transit services for free during the Pilot Period, based on a mutually agreed upon methodology described herein.

E. District shall make available student data by year, including actively enrolled students, graduation rates and other student academic data to help Agency and other regional transportation planning agencies administer and analyze the performance of the Program.

F. During the Pilot Period, District and Agency mutually agree to administer surveys onboard Agency's transit services to monitor Participant satisfaction and solicit Program feedback, as well as conduct other data collection activities that support general transit service planning efforts and potential funding opportunities to expand the Program.

G. The Parties desire to enter into this Agreement to outline each Party's roles and obligations for the Program.

Now therefore, for valuable consideration, the receipt and sufficiency are hereby acknowledged, the Parties hereby agree as follows:

AGREEMENT

1. Service

1.1. The Recitals are hereby incorporated by reference in this Agreement.

1.2. During the Pilot Period, Agency shall allow each Participant, as defined in Section 3 of this Agreement, unlimited access on all Agency's fixed-route transit and Americans with Disabilities Act (ADA) required complementary paratransit services, ("transit services") in accordance with the terms of this Agreement. Participants must display a valid College Student Identification Card or other student identification through the College's available electronic mobile application platform to the transit operator when boarding Agency's transit services.

1.3. Exhibit A of this Agreement contains an example of District's current College Student Identification Card and electronic mobile application student identification method for reference. The student identification method(s) may be modified by District at any time during the Pilot Program. District must notify Agency immediately about any change to the design and application of the student identification method so that Agency can continue recognizing eligible Participants and effectively administering the Pilot Program on Agency's transit services.

1.4. During the Pilot Program, District and Agency may agree to incorporating alternative student identification methodology and/or Participant verification pass for the Program that may include, but not be limited to, the implementation of a commercial vendor electronic fare payment application pass that would further support the Program's intent and administration.

1.5. Agency will be responsible for the daily collection of ridership data associated with Participant boardings on Agency's transit services. The data collection methodology shall be mutually agreed upon by both Parties; and may include, but not be limited to, hand-counted boarding data, electronic GFI data, and/or any other available mobile fare application data that identifies Participant ridership accessing Agency's transit services. The ridership data shall be provided by Agency to District as part of the quarterly invoice process to reimburse Agency's transit fare revenue loss as described in Sections 4 and 5 of this Agreement.

1.6. Any ridership information that Agency provides to District will be aggregated and anonymized pursuant to California Streets and Highways Code Section 31490.

1.7. District and Agency will coordinate to promote and market the Program to encourage Participants to utilize Agency's transit services. District and Agency will collectively produce and display marketing materials (i.e. flyers, brochures, and posters) regarding

the Program at mutually agreed upon physical locations that may include, but not be limited to, College campus, student newsletters, and flyers or other promotional displays on transit vehicles. Marketing materials may also be digital communications, which District and Agency shall distribute to potential Participants through electronic mail, social media, website, and/or other practical and feasible means. District shall obtain Agency's consent and approval prior to distribution of such materials that reference Agency (where applicable), developed by District.

1.8. District and Agency shall mutually coordinate on surveying Participants during the Pilot Period regarding Program satisfaction and solicit feedback. This must occur at least once during each Pilot Year. Additionally, District and Agency agree to collaboratively administer other data collection activities to assist with overall transit service planning efforts and support potential funding opportunities to expand the Program.

1.9. District shall be responsible for the overall administration of the Program by performing the following functions, all as more particularly described in this Agreement:

a. Determine whether a student is enrolled and eligible to participate in the Program,
b. Administer waiver forms to students who are eligible to participate,
c. Provide the College Student Identification Card and/or other agreed upon method of student identification (excluding any commercial mobile fare application payment that may be directly implemented by Agency),
d. Maintain Participant ridership records provided by Agency,
e. Collect and maintain Participant survey data and/or other data that assists with Program implementation and expansion,
f. Provide data, as requested, to sponsoring regional transportation planning agencies that are financially assisting with funding the Program's implementation, and
g. Administer the reimbursement of lost transit fare revenues for Agency after pursuant to the terms and conditions defined in Sections 4 and 5 of this Agreement.

2. Term and Termination

2.1. The term of this Agreement shall commence on the Effective Date and shall continue through June 30, 2025, subject to either Party's election to terminate this Agreement, with or without cause, by prior written notice to the other Party specifying the date of such termination. Notice of termination either Party shall be given at least sixty (60) days in advance of the termination date set forth in the notice of termination.

2.2. If either party terminates all or any part of this Agreement for its convenience under Section 2.1 hereof, the Program will remain valid until the end of the current Pilot Year.

2.3. If District terminates the Program, District shall be responsible for posting notices at District's site notifying the Participants of the Program's termination at least sixty (60) days in advance of the termination date ("**Termination Posting**"). The Termination

Posting shall include a notice that the Fareless Transit Pass Pilot Program will no longer be accepted by Agency as of the end of the current Pilot Year.

2.4. If either Party fails to comply with the terms and conditions of this Agreement, then the Party shall be in default under this Agreement and in addition to all remedies available at law or equity, the other Party may terminate this Agreement upon at least fourteen (14) days written notice to defaulting Party. The Agency will discontinue accepting College Student Identification Cards and/or other agreed upon identification methodology, as valid fare onboard Agency's transit services.

2.5. If a default can be cured, prior to termination for default, the other Party may issue a cure notice. If the defaulting Party fails to cure the default within fourteen (14) days following the date of the cure notice or commence and complete the cure in accordance with such additional time limits as may be described in the cure notice, the other Party may terminate the Agreement immediately following the defaulting Party's failure to cure such default within the applicable cure period and discontinue participation in the Program.

3. Eligible Participants

3.1. District shall be responsible for determining whether a College student meets the definition of an eligible Participant, as defined below.

3.2. For purposes of this Agreement and Pilot Program, a Participant is defined as an eligible student who is currently enrolled (either in-person at a College campus or online) during a Fall, Spring, and/or Summer semester course, regardless of the number of units enrolled, and has elected to participate in the Program by displaying a valid Student Identification Card or other mutually agreed upon form of electronic student identification when boarding Agency's transit service vehicle.

4. Agency Fare Reimbursement Methodology

4.1. For each year of participation in the Pilot Program, District shall reimburse Agency quarterly for fifty percent (50%) of the estimated average fare revenue per Participant accessing its transit services for free. Reimbursement shall be based on the following formula:

Number of Participant boardings

X (multiplied by)

50% of Agency's estimated average fare revenue per Participant

The number of Participant boardings shall be provided to District per the provisions established in Section 5 of this Agreement. The Agency's estimated average fare revenue per Participant is currently determined as one dollar and forty-six cents ($1.46), which has been mutually agreed upon by Agency and District based on

Agency's calculation of Participants that would qualify for Agency's applicable full- and half-price fare costs to access the transit service.

4.2. Upon mutual agreement, Agency and District may amend Agency's estimated average fare revenue per Participant at any point during the Pilot Period subject to the noticing provisions established in Section 6 of this Agreement.

5. **Payment of Reimbursement Invoice**

5.1. Within fifteen (15) days following the completion of each quarter of the Pilot Program, Agency will submit an invoice to District with supporting documentation for the reimbursement of lost fare revenues attributed to the Participants that accessed Agency's transit services during that given quarter, pursuant to the reimbursement formula identified in Section 4 of this Agreement.

5.2. District shall pay Agency the full amount invoiced within thirty (30) days of receipt of invoice.

5.3. If the District defaults on any payments, in addition to all rights and remedies available to Agency at law or in equity, Agency may terminate the Program subject to Section 2 of this Agreement. Agency's failure to terminate this Agreement immediately after any missed payment shall not be construed as a waiver of Agency's right to terminate this Agreement for any ongoing missed payment(s).

5.4. All outstanding invoice(s) shall be payable within thirty (30) days upon termination of this Agreement.

6. **Noticing**

6.1. All notices required or permitted hereunder shall be delivered in person, by messenger, by overnight courier or by registered or certified mail, postage prepaid, return receipt requested, or by electronic mail (e-mail) to the receiving Party at its address shown below or to any other place designated in writing by such Party. Any such notice shall be deemed received: (i) upon delivery, if delivered personally or by messenger; (ii) the next business day after delivery if delivered by courier; (iii) three (3) days after deposit into the United States Mail in Placer and/or Nevada Counties, California, if delivered by registered or certified mail; or (iv) if it is delivered by e-mail, when the recipient, by an e-mail sent to the email address for the sender or by a notice delivered by another method in accordance with this Section, acknowledges having received the sender's email, provided that an automatic "read receipt" does not constitute acknowledgment of an email for purposes of this Section:

To District: Sierra Joint Community College District
5100 Sierra College Boulevard
Rocklin, CA 95677
Attention: Erik Skinner, VP Administrative Services
E-mail: adminservices@sierracollege.edu

(916) 660-7600

To Agency: City of Roseville
Alternative Transportation Division
316 Vernon Street Suite 150
Roseville, CA 95678
Attention: Ed Scofield, Alternative Transportation Manager
E-mail: ECScofield@roseville.ca.us
(916) 774-5449

7. **General Provisions**

7.1. District shall establish and maintain proper record keeping procedures to properly document its implementation of the Program. District shall retain all original records and documents related to the Program for a period of three (3) years after the date of termination of this Agreement, subject to the requirements of Section 31490 of the Streets and Highways Code.

7.2. No officer, member, or employee of District or Agency and no members of its respective governing body, and no other public official or employee of the governing body of the locality of localities included within District and/or Agency's service boundaries, during his or her tenure or for one year thereafter, shall have any interest, direct or indirect, in this Agreement or the proceeds thereof.

7.3. This Agreement may not be amended or modified except by means of a writing executed by both Parties and expressly stating that it is an amendment or modification to this Agreement. Nothing in this Agreement shall be construed to give third party beneficiary rights to any person not a party to this Agreement.

7.4. Nothing in this Agreement shall be construed to limit Agency's right to establish service routes or perform any functions authorized by Agency's governing body. Nothing herein shall be construed to give District rights to receive any particular transit service routes, levels of service, or Agency participation. No provision of this Agreement shall be construed to require Agency to continue to operate any transit services to or from District or elsewhere during the Term of the Agreement, and it is expressly agreed that Agency shall incur no liability to District by reason of any rerouting, rescheduling, discontinuance or other changes in transit services operated by Agency.

7.5. The Parties shall be responsible for the acts and omissions of their respective officers, employees, and agents; provided, however, that nothing in this provision or otherwise contained in the provisions of this Agreement shall be construed as an express or implied waiver by either party.

7.6. Nothing in this Agreement shall be deemed or construed as creating a partnership, joint venture, or association between the Parties, or cause either Party to be responsible in any way for the debts or obligations of the other Party.

7.7. Neither any officer or employee thereof of Agency shall be responsible for any damage or liability occurring by reason of anything done or omitted to be done by District in connection with any work performed by and/or service provided by District, its officers, agents, employees and subcontractors under this Agreement. District shall fully indemnify, defend, Agency and each of their officers, agents and employees, harmless from and against any liability and expenses, including without limitation, defense costs, any costs or liability on account of bodily injury, death or personal injury of any person or for damage to or loss of risk of property, any legal fees and any claims for damages of any nature whatsoever arising out of District's participation in the Program, including without limitation (i) breach of District's representations, warranties, or obligations under this Agreement; or (ii) any act or omission of the District, or its officers, agents, employees, students, contractors or subcontractors in connection with its participation in the Program; or (iii) theft, forgery or other similar causes.

7.8. Neither District nor any of its officers, employees, agents, volunteers or authorized representatives shall be responsible for any claim, damage, injury or liability to the extent it arises from Agency's administration of the Program or operation of Agency's transportation system and/or services. Agency shall fully indemnify and defend District and each of their officers, employees, agents, volunteers or authorized representatives, harmless from and against any liability and expenses, including without limitation, defense costs, any costs or liability on account of bodily injury, death, or personal injury of any person or for damage to or loss of risk of property, any legal fees and any claims for damages of any nature whatsoever arising out of Agency's participation in the Program, including without limitation (i) breach of Agency's representations, warranties, or obligations under this Agreement; or (ii) any act or omission of the Agency, or its officers, agents, employees, students, contractors, or subcontractors in connection with its participation in the Program; or (iii) theft, forgery or other similar causes.

7.9. This Agreement supersedes all prior agreements between the Parties with respect to its subject matter and constitutes a complete and exclusive statement of the terms of the agreement between the parties with respect to its subject matter. Any oral representations or modifications concerning this Agreement shall be of no force or effect.

7.10. District shall not assign this Agreement, or any part thereof, without prior written approval of Agency, and any assignment without said consent shall be void and unenforceable, unless otherwise approved in writing by Agency.

7.11. This Agreement may be signed in one or more counterparts, each of which shall constitute an original and all of which together shall constitute one and the same agreement. Handwritten signatures to this Agreement transmitted by facsimile or other electronic means (for example, through use of a Portable Document Format or "PDF" file) shall be valid and effective to bind the Party so signing.

7.12. Each person signing this Agreement on behalf of each Party represents and warrants that the Party as named herein is a legal entity authorized to do business in the State of California and that he or she is duly authorized and has legal capacity to execute and deliver this Agreement on behalf of Party. Each Party represents and warrants to the other that the execution and delivery of the Agreement and the performance of such Party's obligation hereunder have been duly authorized, no consent of any other party to do so is required except for consents that have been obtained or made and are in full effect, and that the Agreement is a valid and legal agreement binding on such party and enforceable in accordance of these terms.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their duly authorized representatives as of the Effective Date.

Sierra Joint Community College District:

By: _____
Name/Title

Approved as to form:

By: _____
Authorized Agent

City of Roseville

By: _____
Dominick Casey
City Manager

Approved as to form:

By: _____
Michelle Sheidenberger
City Attorney

COUNCIL COMMUNICATION

CC #: 2248
File #: 0400-04-13-1 & 0400-07

Title:	Creekview Phase 3 - Village 5 - Final Map and Subdivision Agreement
Contact:	Kerry Andrews 916-774-5346 kandrews@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.12.

RECOMMENDATION TO COUNCIL

It is recommended that the City Council take the following actions:

1. Approve the final map on file with the City Clerk and accept on behalf of the public, the public utility easements, and accept, subject to improvement, Lots A, B, C and D and the rights of way offered thereon, and approve the abandonment of the easements listed thereon; and
2. Adopt the attached resolution approving the Subdivision Agreement and authorize the City Manager to execute the agreement on behalf of the City.

BACKGROUND

The Development Services, Engineering section, has reviewed the subject final map and found that it is in compliance with the Subdivision Map Act and the City's Subdivision Ordinance and all conditions of the tentative map have been met. This map will create 74 residential lots and 4 public landscape lots.

FISCAL IMPACT

There is no fiscal impact to the City's General Fund associated with this approval.

ENVIRONMENTAL REVIEW

Approval of the Creekview - Phase 3 Village 5 final map is an action that is subject to California Environmental Quality Act (CEQA). Project level CEQA compliance for the Creekview - Phase 3 Village 5 final map was accomplished with the preparation of the Creekview Specific Plan EIR (Adopted in April 2011) (SCH#2008032017) and the Addendum to the Creekview Specific Plan EIR approved by the City of Roseville on October 23, 2019. Because the Creekview - Phase 3 Village 5 final map is consistent with the project evaluated in the Creekview Specific Plan EIR and the Addendum, no new effects would be expected to occur and all applicable mitigation measures

from the Creekview Specific Plan EIR and the Addendum will be implemented. As such, no additional CEQA action is required at this time.

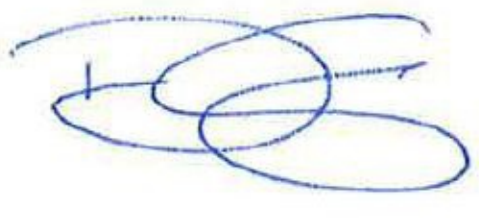
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Kerry Andrews, Assistant Engineer

Mike Isom, Development Services Director



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

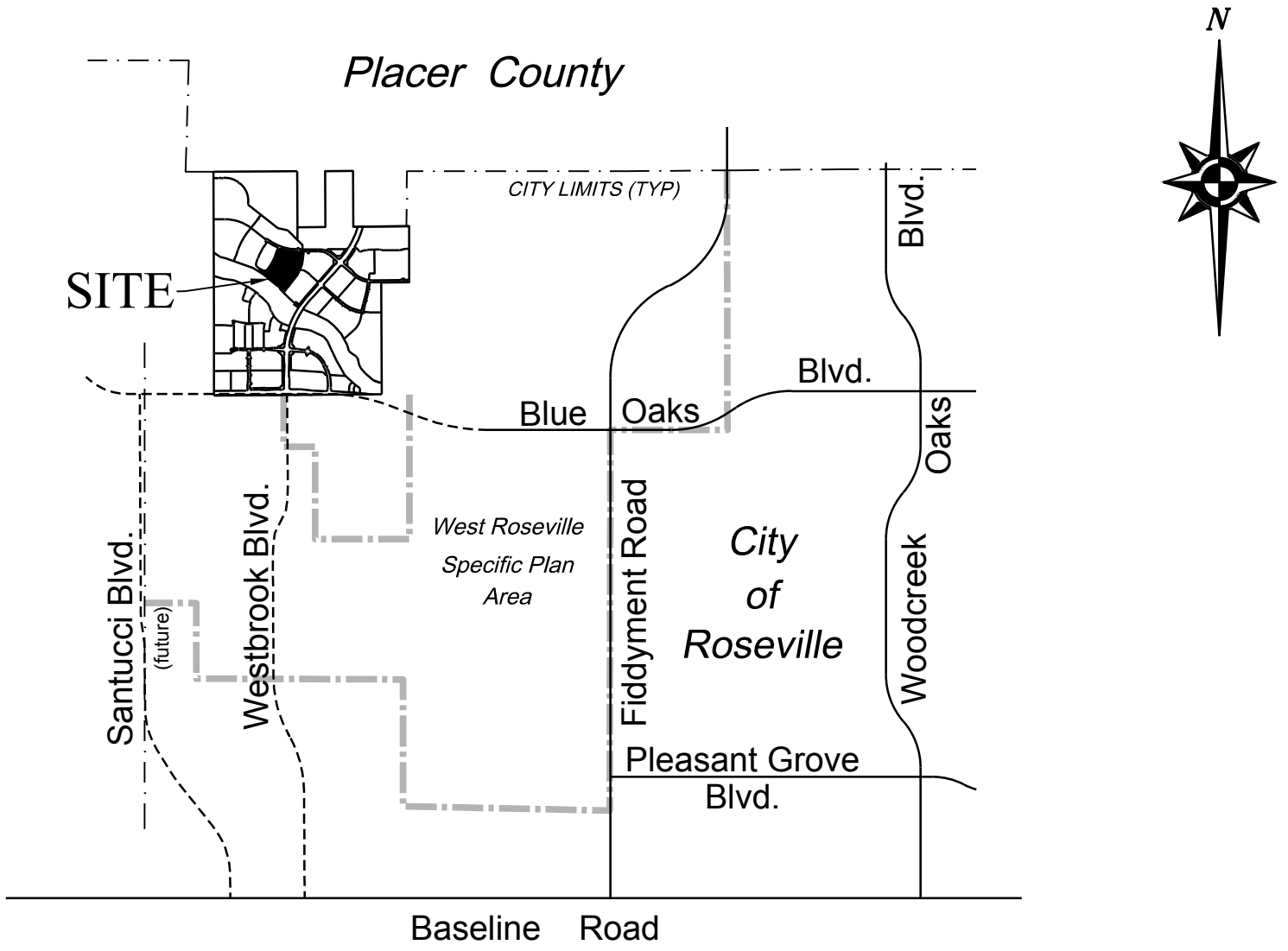
Vicinity Map

Final Map

Resolution 22-316

Subdivision Agreement

CREEKVIEW PHASE 3 VILLAGE 5



VICINITY MAP

BOOK_____ OF MAPS, PAGE_____

OWNER'S STATEMENT

THE UNDERSIGNED HEREBY CERTIFY THAT THEY ARE THE ONLY PERSONS HAVING ANY RECORD TITLE INTEREST IN THE REAL PROPERTY INCLUDED WITHIN THE SUBDIVISION SHOWN UPON THIS FINAL MAP OF "CREEKVIEW PHASE 3 VILLAGE 5" AND THEY HEREBY CONSENT TO THE PREPARATION AND RECORDATION OF THIS FINAL MAP AND HEREBY OFFER FOR DEDICATION AND DO HEREBY DEDICATE FOR SPECIFIC PURPOSES THE FOLLOWING:

THE REAL PROPERTY DESCRIBED BELOW IS DEDICATED AS EASEMENTS FOR PUBLIC PURPOSES:

(A) A PUBLIC EASEMENT FOR THE INSTALLATION AND MAINTENANCE OF, BUT NOT LIMITED TO ELECTROLIERS, WATER AND GAS PIPES, SEWER AND DRAINAGE PIPES, AND FOR UNDERGROUND WIRE AND CONDUITS FOR ELECTRIC, TELEPHONE AND TELEVISION SERVICES AND TRAFFIC CONTROL APPURTENANCES TOGETHER WITH ANY AND ALL APPURTENANCES PERTAINING THERETO ON, OVER, UNDER AND ACROSS LOTS A, B, C AND D, THE STREETS SHOWN HEREON AS MARSHMALLOW DRIVE, VIBRANT DRIVE, ROUNDHOUSE LOOP, AND HAPPY CAMPER WAY AND THOSE STRIPS OF LAND LYING CONTIGUOUS TO THE RIGHTS-OF-WAY AS SHOWN HEREON AND DESIGNATED "PUE" (PUBLIC UTILITY EASEMENT).

THE REAL PROPERTY DESCRIBED BELOW IS DEDICATED IN FEE FOR PUBLIC PURPOSES:

(A) AS PUBLIC RIGHTS-OF-WAY (INCLUDING ALL IMPROVEMENTS THEREON) THE STREETS SHOWN HEREON AS MARSHMALLOW DRIVE, VIBRANT DRIVE, ROUNDHOUSE LOOP, AND HAPPY CAMPER WAY.

(B) LOTS A, B, C AND D AS SHOWN HEREON TO THE CITY OF ROSEVILLE FOR LANDSCAPING AND AS PUBLIC RIGHTS-OF-WAY.

ANTHEM UNITED CREEKVIEW DEVELOPMENTS LIMITED PARTNERSHIP,
A WASHINGTON LIMITED PARTNERSHIP

BY: _____

_____

NOTARY'S ACKNOWLEDGMENT

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 _____

ON_____ BEFORE ME,_____, A NOTARY PUBLIC

PERSONALLY APPEARED _____
WHO PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE TO BE THE PERSON(S) WHOSE NAME(S) IS/ARE SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE/SHE/THEY EXECUTED THE SAME IN HIS/HER/THEIR AUTHORIZED CAPACITY(IES), AND THAT BY HIS/HER/THEIR SIGNATURE(S) ON THE INSTRUMENT THE PERSON(S), OR THE ENTITY UPON BEHALF OF WHICH THE PERSON(S) 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.

_____
SIGNATURE PRINTED NAME

MY PRINCIPAL PLACE OF BUSINESS IS _____COUNTY

MY COMMISSION EXPIRES: _____ MY COMMISSION NUMBER: _____

TRUSTEE'S STATEMENT

FIRST AMERICAN TITLE INSURANCE COMPANY, A NEBRASKA CORPORATION, AS TRUSTEE UNDER THAT CERTAIN CONSTRUCTION DEED OF TRUST AND SECURITY AGREEMENT RECORDED ON MAY 24, 2019, AS INSTRUMENT NO. 2019-0034783, ORPC AND MODIFIED BY INSTRUMENT NO. 2021-0043312 AND INSTRUMENT NO. 2022-0044720, ORPC, HEREBY CONSENTS TO THE RECORDING OF THIS MAP AND THE SUBDIVISION OF THE LANDS SHOWN HEREON.

BY: _____

_____

_____

NOTARY'S ACKNOWLEDGMENT

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 _____

ON_____ BEFORE ME,_____, A NOTARY PUBLIC

PERSONALLY APPEARED _____
WHO PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE TO BE THE PERSON(S) WHOSE NAME(S) IS/ARE SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE/SHE/THEY EXECUTED THE SAME IN HIS/HER/THEIR AUTHORIZED CAPACITY(IES), AND THAT BY HIS/HER/THEIR SIGNATURE(S) ON THE INSTRUMENT THE PERSON(S), OR THE ENTITY UPON BEHALF OF WHICH THE PERSON(S) 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.

_____
SIGNATURE PRINTED NAME

MY PRINCIPAL PLACE OF BUSINESS IS _____COUNTY

MY COMMISSION EXPIRES: _____ MY COMMISSION NUMBER: _____

SURVEYOR'S STATEMENT

THIS MAP OF "CREEKVIEW PHASE 3 VILLAGE 5" WAS PREPARED BY ME OR UNDER MY DIRECTION AND IS BASED UPON A FIELD SURVEY IN CONFORMANCE WITH THE REQUIREMENTS OF THE SUBDIVISION MAP ACT AND LOCAL ORDINANCE AT THE REQUEST OF ANTHEM UNITED CREEKVIEW DEVELOPMENTS LIMITED PARTNERSHIP, IN JANUARY, 2019, I HEREBY STATE THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN, THAT ALL THE MONUMENTS ARE OF THE CHARACTER AND OCCUPY THE POSITIONS INDICATED OR THAT THEY WILL BE SET IN THOSE POSITIONS BEFORE DECEMBER 31, 2024, AND THAT THE MONUMENTS ARE, OR WILL BE, SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, AND THAT THIS FINAL MAP SUBSTANTIALLY CONFORMS TO THE CONDITIONALLY APPROVED TENTATIVE MAP.

MACKAY & SOMPS CIVIL ENGINEERS, INC.

BY: _____
PAUL FERGUSON, JR., PLS 9265
EXPIRATION DATE: MARCH 31, 2024

DATE: _____

LICENSED LAND SURVEYOR
PAUL FERGUSON, JR.
No. 9265
STATE OF CALIFORNIA

CITY ENGINEER'S STATEMENT

I HEREBY STATE THAT I HAVE EXAMINED THIS FINAL MAP OF "CREEKVIEW PHASE 3 VILLAGE 5" AND FIND IT TO BE SUBSTANTIALLY THE SAME AS THE TENTATIVE MAP ON FILE AND ANY APPROVED ALTERATIONS THEREOF; THAT ALL PROVISIONS OF THE SUBDIVISION MAP ACT AND ALL APPLICABLE CITY ORDINANCES HAVE BEEN COMPLIED WITH.

_____ DATE: _____
MARC STOUT, R.C.E. 69879
CITY ENGINEER, CITY OF ROSEVILLE
LICENSE EXPIRES: SEPTEMBER 30, 2022

I HEREBY STATE THAT I AM SATISFIED THIS FINAL MAP OF "CREEKVIEW PHASE 3 VILLAGE 5" IS TECHNICALLY CORRECT.

FOR MARC STOUT, CITY ENGINEER, CITY OF ROSEVILLE

_____ DATE: _____
TIMOTHY G. BLAIR, PLS 8278
EXPIRES DECEMBER 31, 2023

LICENSED LAND SURVEYOR
TIMOTHY G BLAIR
Exp. 12-31-23
No. 8278
STATE OF CALIFORNIA

CITY CLERK'S STATEMENT

I HEREBY CERTIFY THAT THE CITY COUNCIL, CITY OF ROSEVILLE, HAS APPROVED THIS FINAL MAP OF "CREEKVIEW PHASE 3 VILLAGE 5", AND HAS ACCEPTED ON BEHALF OF THE PUBLIC, THE PUBLIC UTILITY EASEMENTS OFFERED HEREON FOR DEDICATION AND HAS ACCEPTED, SUBJECT TO IMPROVEMENT, LOTS A, B, C AND D AND THE RIGHTS-OF-WAY OFFERED HEREON FOR DEDICATION, AND HEREBY APPROVES THE ABANDONMENT OF THE EASEMENTS LISTED WITHIN NOTE 5 ON SHEET 2.

_____
CITY CLERK, CITY OF ROSEVILLE

DATE: _____ BY: _____
ASSISTANT CITY CLERK

RECORDER'S STATEMENT

FILED THIS _____ DAY OF _____, 2022, AT _____ .M. IN BOOK _____ OF MAPS, AT PAGE _____, IN THE OFFICE OF THE PLACER COUNTY RECORDER, AT THE REQUEST OF MACKAY & SOMPS CIVIL ENGINEERS, INC.

_____ DOCUMENT NO.: _____
RECORDER OF PLACER COUNTY
STATE OF CALIFORNIA

BY: _____ FEE: $ _____
DEPUTY

FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 5

SUBDIVISION NO. PL20-0201

ALL OF LOT 5 AS SHOWN ON THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

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MACKAY & SOMPS
ENGINEERS PLANNERS SURVEYORS
1025 Creekside Ridge Drive, Suite 150, Roseville, CA 95678 (916) 773-1189

AUGUST 2022

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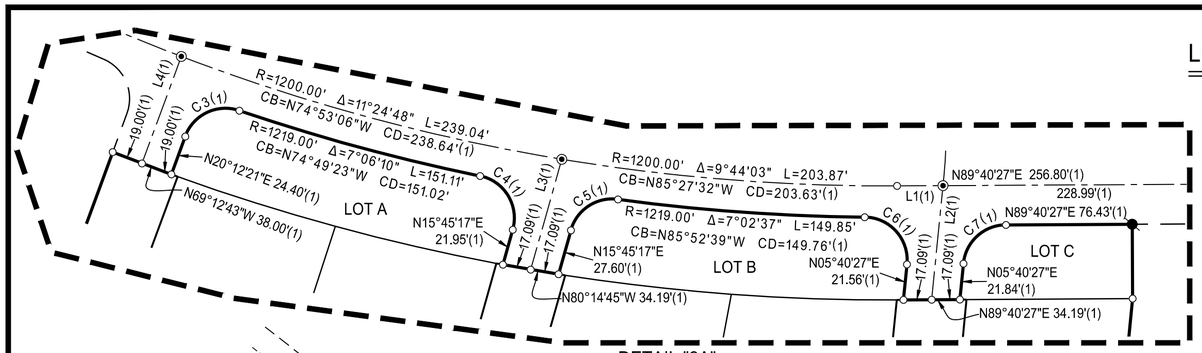
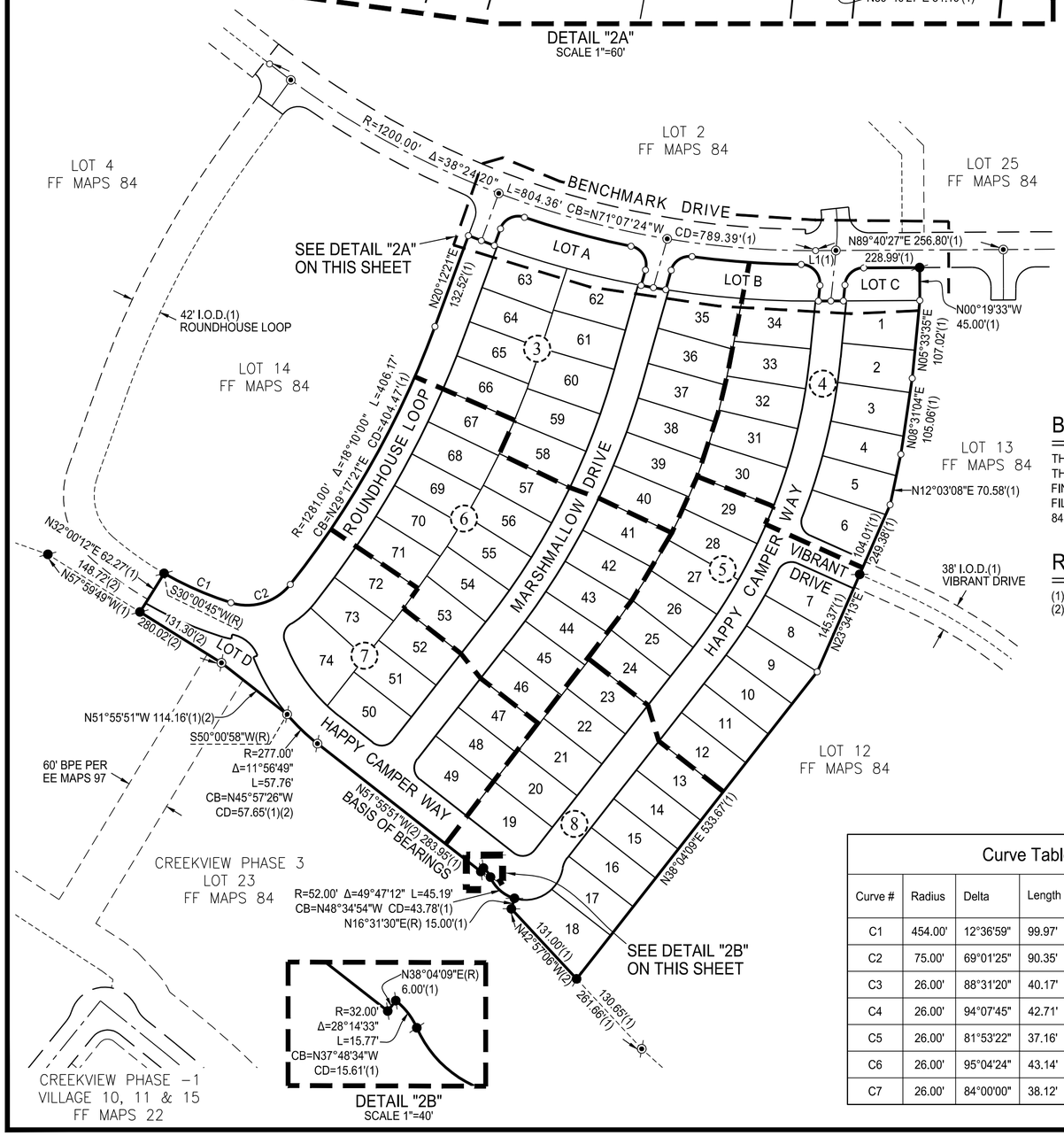
BOOK_____OF MAPS, PAGE_____



DETAIL "2A"
SCALE 1"=60'



DETAIL "2B"
SCALE 1"=40'

LEGEND:

◉	COPPERWELD SURVEY MONUMENT WITH CENTER PUNCH IN MONUMENT WELL STAMPED "LS 9265" TO BE SET PER (1)
⊙	5/8" REBAR WITH PLASTIC CAP STAMPED "LS 9265" TO BE SET PER (2)
●	5/8" REBAR WITH PLASTIC CAP STAMPED "LS 9265" TO BE SET PER (1)
◎	SET COPPERWELD SURVEY MONUMENT WITH CENTER PUNCH IN MONUMENT WELL STAMPED "LS 9265"
⌀	SET 5/8" REBAR WITH PLASTIC CAP STAMPED "LS 9265"
○	DIMENSION POINT
BPE	BIKE PATH EASEMENT
CB	CHORD BEARING
CD	CHORD DISTANCE
IOD	IRREVOCABLE OFFER OF DEDICATION
(OA)	OVERALL
OR	OFFICIAL RECORDS OF PLACER COUNTY
PUE	PUBLIC UTILITY EASEMENT
(R)	RADIAL BEARING
SF	SQUARE FEET
(X)	SHEET INDEX NUMBER
———	BOUNDARY
———	LOT LINE
- - - - -	ADJACENT PROPERTY
———	RIGHT-OF-WAY
– – – –	I.O.D.
– – – –	EASEMENT
——·——	CENTER LINE

BASIS OF BEARINGS:

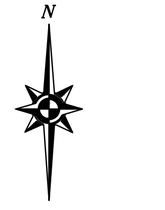
THE BASIS OF BEARINGS FOR THIS MAP IS NORTH 51°55'51" WEST ALONG THE SOUTHERLY BOUNDARY LINE OF LOT 5 AS SHOWN ON THAT CERTAIN FINAL MAP ENTITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION" FILED FOR RECORD ON DECEMBER 2, 2021 IN BOOK FF OF MAPS, AT PAGE 84, PLACER COUNTY RECORDS.

REFERENCES:

(1) FF MAPS 84
(2) EE MAPS 97

NOTES

1. ALL CURVES ARE DIMENSIONED WITH RADIUS, DELTA, ARC LENGTH, CHORD BEARING AND CHORD LENGTH. DISTANCES SHOWN HEREON ARE IN FEET AND DECIMALS THEREOF AND ARE "GROUND" DISTANCES. DUE TO ROUNDING, THE SUM OF INDIVIDUAL DIMENSIONS MAY NOT EQUAL THE OVERALL DIMENSION.
2. TOTAL AREA FOR THIS SUBDIVISION IS 13.376± ACRES, CONSISTING OF 74 RESIDENTIAL LOTS, 4 LANDSCAPE LOTS.
3. ALL FRONT LOT CORNERS WILL BE SET WITH A 1" DIAMETER BRASS DISC STAMPED "LS 9265" IN THE SIDEWALK ON THE EXTENSION OF SIDE LOT LINES 1.00 FOOT FROM THE FRONT PROPERTY LINE UNLESS OTHERWISE NOTED.
4. ALL REAR LOT CORNERS AND ANGLE POINTS WILL BE SET WITH A 5/8" REBAR WITH PLASTIC CAP STAMPED "LS 9265". WHERE MONUMENTS FALL WITHIN A SOUND WALL OR CONCRETE FOOTING A 5/8" REBAR WITH PLASTIC CAP STAMPED "LS 9265" WILL BE SET ON THE SIDE LOT LINE ON A 4.00 FOOT OFFSET TO THE REAR LOT CORNER OR A 3/4" DIAMETER BRASS TAG STAMPED "LS 9265" WILL BE SET WITH EPOXY TO THE FACE OF WALL 2.00 FOOT ABOVE GROUND OR ON TOP OF WALL WHERE AN OFFSET MONUMENT CANNOT BE SET.
5. PURSUANT TO GOVERNMENT CODE SECTION 66434(G), THE FOLLOWING EASEMENTS, NOT SHOWN HEREON, IS HEREBY ABANDONED:
   a. THE PORTION OF THE FORTY TWO (42) FOOT IRREVOCABLE OFFER OF DEDICATION (IOD) ROUNDHOUSE LOOP OVER LOT 5 ON THAT CERTAIN FINAL MAP ENTITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION", FILED FOR RECORD ON DECEMBER 2, 2021 IN BOOK FF OF MAPS , AT PAGE 84, PLACER COUNTY RECORDS.
   b. 50' PUE/PE ALONG THE SOUTHERLY RIGHT-OF-WAY OF BENCHMARK DRIVE, WITHIN LOT 5 AS SHOWN ON THAT CERTAIN FINAL MAP ENTITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION", FILED FOR RECORD ON DECEMBER 2, 2021 IN BOOK FF OF MAPS , AT PAGE 84, PLACER COUNTY RECORDS.
   c. 45' PUE/PE ALONG THE SOUTHERLY RIGHT-OF-WAY OF BENCHMARK DRIVE, WITHIN LOT 5 AS SHOWN ON THAT CERTAIN FINAL MAP ENTITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION", FILED FOR RECORD ON DECEMBER 2, 2021 IN BOOK FF OF MAPS , AT PAGE 84, PLACER COUNTY RECORDS.
5. A PRELIMINARY SOILS REPORT WAS PREPARED BY GEOCON CONSULTANTS, INC. DATED AUGUST, 2014; PROJECT NO. S9578-05-05 AND ON FILE WITH THE CITY OF ROSEVILLE DEVELOPMENT SERVICES - ENGINEERING DEPARTMENT, FILE NO. 308-885.



0 60 120 240
SCALE: 1"=120'

Curve Table

Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	454.00'	12°36'59"	99.97'	N66° 17' 44"W	99.77'
C2	75.00'	69°01'25"	90.35'	N72° 53' 04"E	84.99'
C3	26.00'	88°31'20"	40.17'	N64° 28' 01"E	36.29'
C4	26.00'	94°07'45"	42.71'	N31° 18' 36"W	38.07'
C5	26.00'	81°53'22"	37.16'	N56° 41' 58"E	34.08'
C6	26.00'	95°04'24"	43.14'	N41° 51' 45"W	38.36'
C7	26.00'	84°00'00"	38.12'	N47° 40' 27"E	34.79'

Line Table

Line #	Bearing	Length
L1	N89°40'27"E	27.81'
L2	N05°40'27"E	69.38'
L3	N15°45'17"E	69.29'
L4	N20°12'21"E	68.86'

FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 5

SUBDIVISION NO. PL20-0201

ALL OF LOT 5 AS SHOWN ON THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

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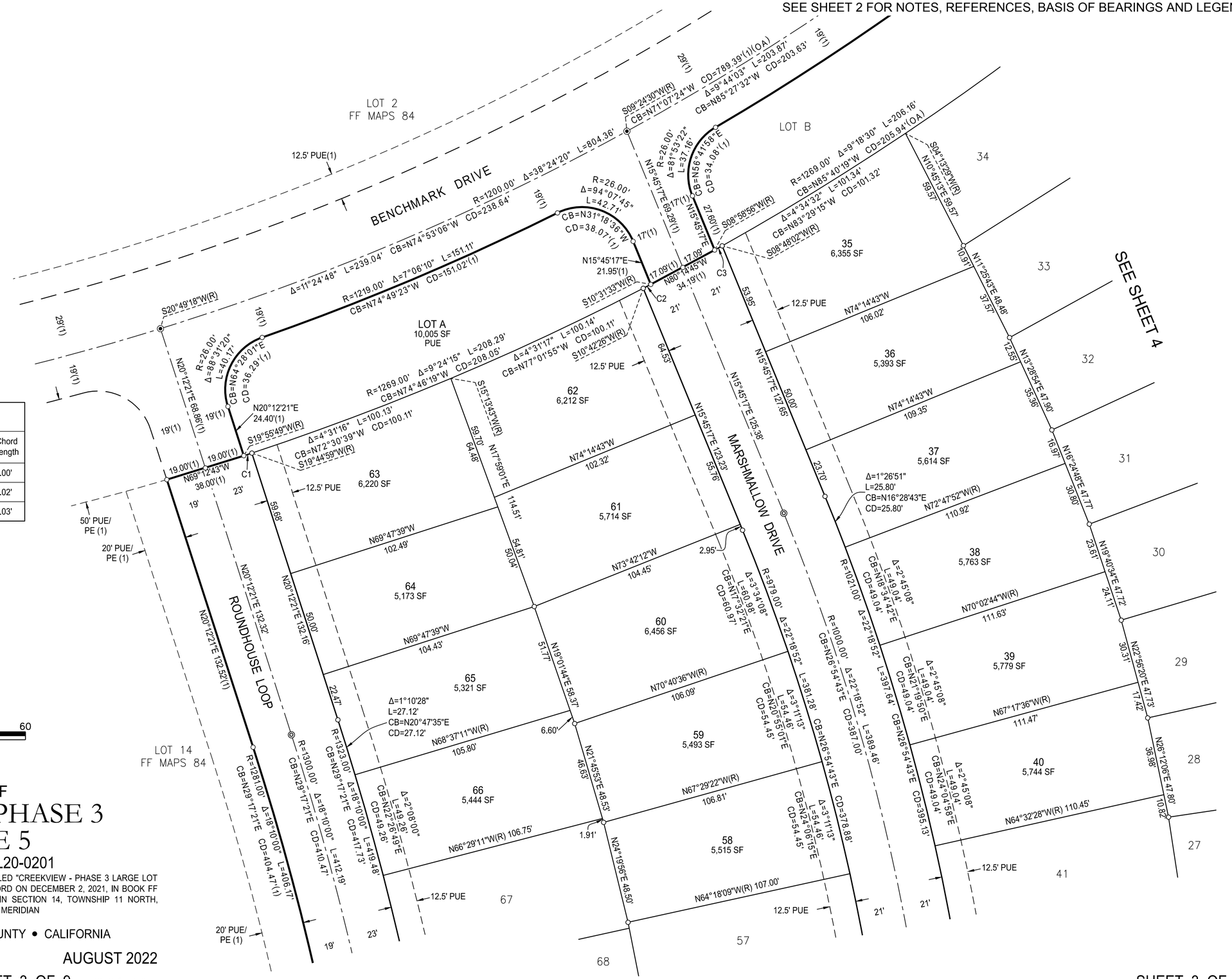
ENGINEERS PLANNERS SURVEYORS
1025 Creekside Ridge Drive, Suite 150, Roseville, CA 95678 (916) 773-1189

AUGUST 2022

18431.CV.PH3.V5

SEE SHEET 2 FOR NOTES, REFERENCES, BASIS OF BEARINGS AND LEGEND

Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	1269.00'	0°10'50"	4.00'	N70° 09' 36"W	4.00'
C2	1269.00'	0°10'53"	4.02'	N79° 23' 00"W	4.02'
C3	1269.00'	0°10'55"	4.03'	N81° 06' 31"W	4.03'



FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 5

SUBDIVISION NO. PL20-0201

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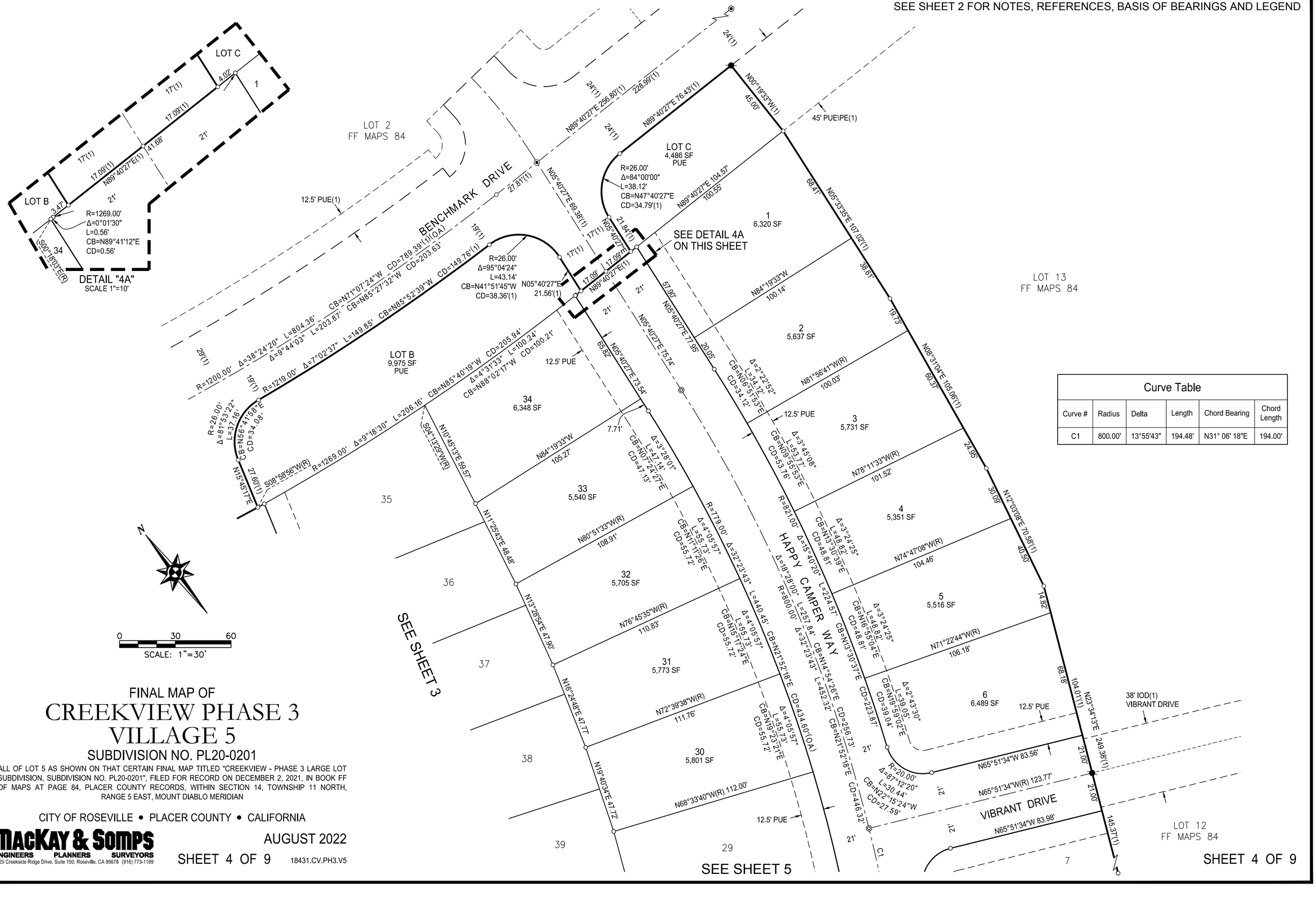
SHEET 3 OF 9

BOOK_____OF MAPS, PAGE_____

SEE SHEET 2 FOR NOTES, REFERENCES, BASIS OF BEARINGS AND LEGEND



Curve Table

Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	800.00'	13°55'43"	194.48'	N31° 06' 18"E	194.00'

FINAL MAP OF

CREEKVIEW PHASE 3
VILLAGE 5

SUBDIVISION NO. PL20-0201

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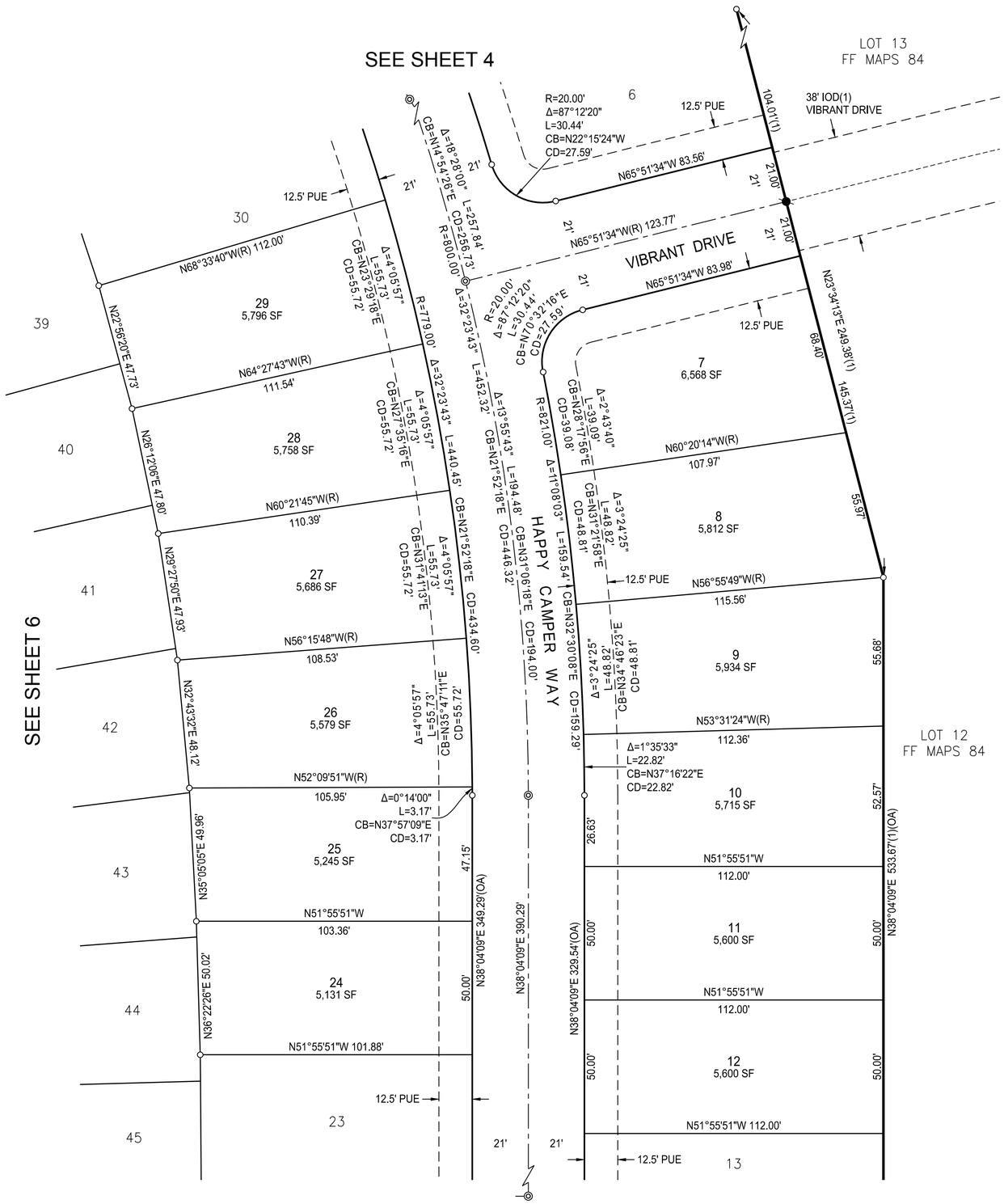
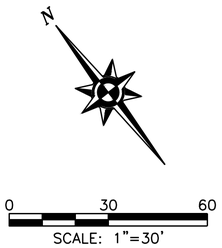


SEE SHEET 8

SEE SHEET 2 FOR NOTES, REFERENCES, BASIS OF BEARINGS AND LEGEND



FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 5

SUBDIVISION NO. PL20-0201

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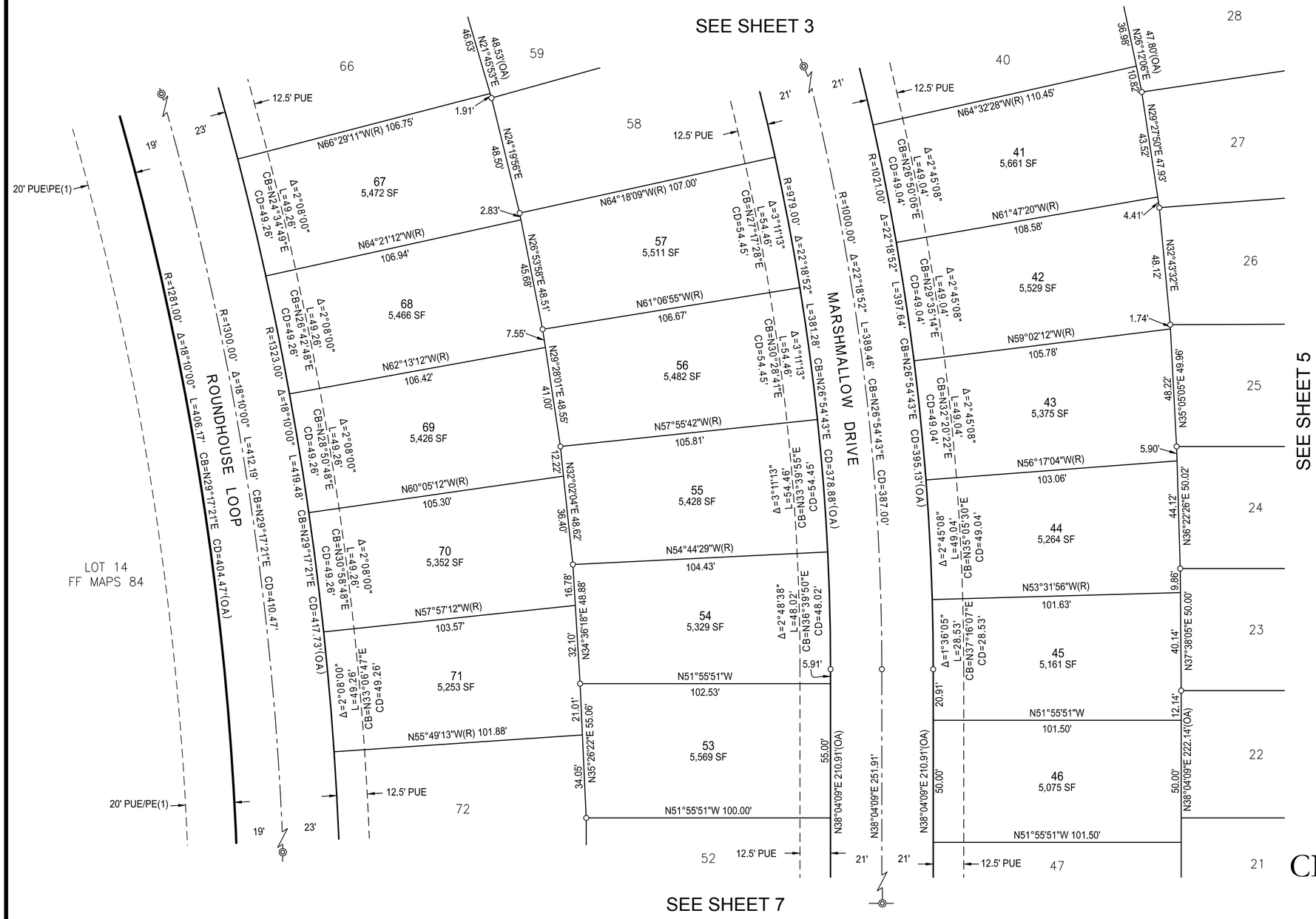

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CREEKVIEW PHASE 3 VILLAGE 5

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AUGUST 2022

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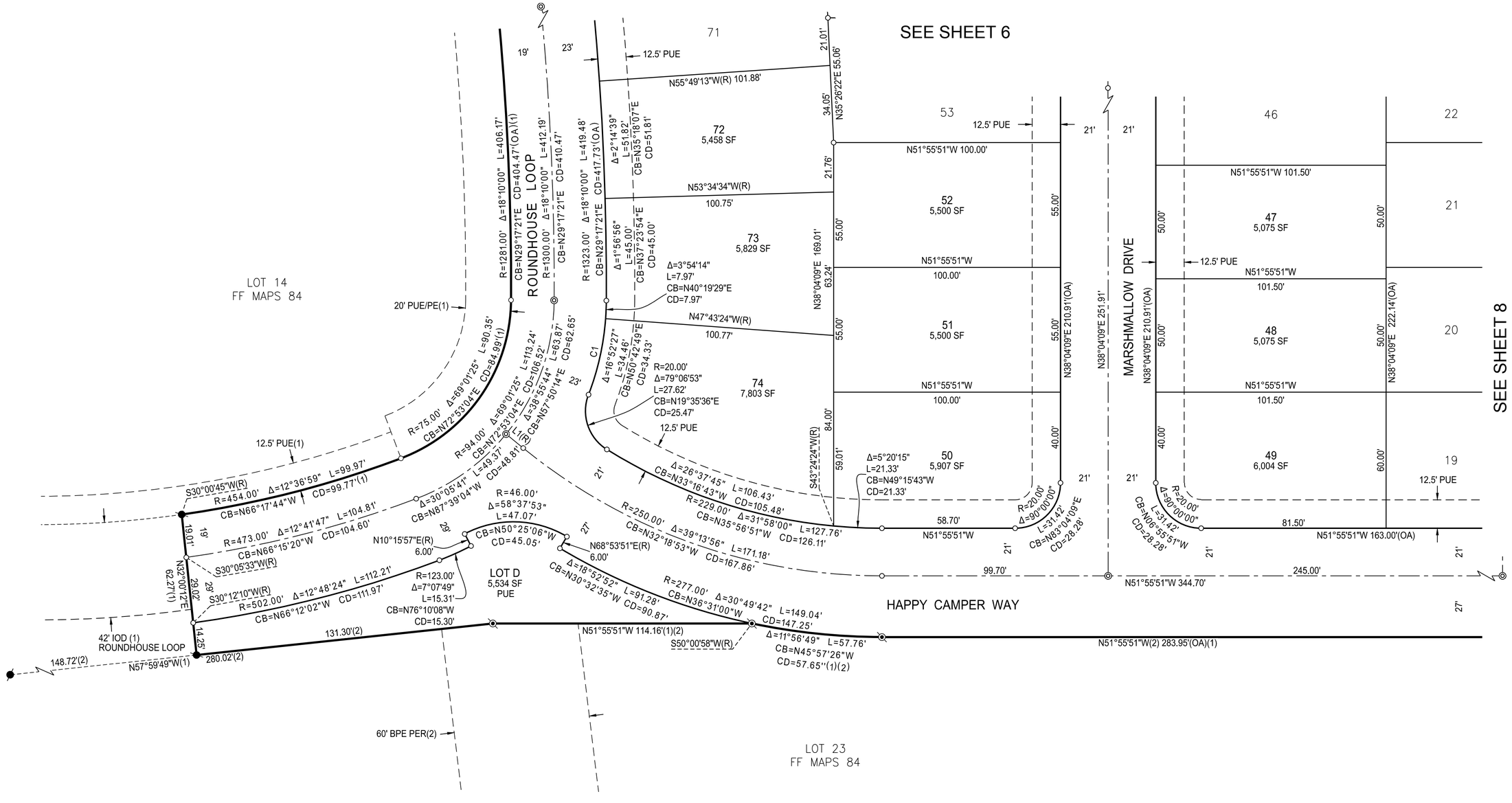
BOOK_____OF MAPS, PAGE_____



Line Table		
Line #	Bearing	Length
L1	N12°41'55"W	9.75'

Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	117.00'	20°46'41"	42.43'	N48° 45' 42"E	42.20'

N

0 30 60

SCALE: 1"=30'

FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 5

SUBDIVISION NO. PL20-0201

ALL OF LOT 5 AS SHOWN ON THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

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AUGUST 2022

SHEET 7 OF 9

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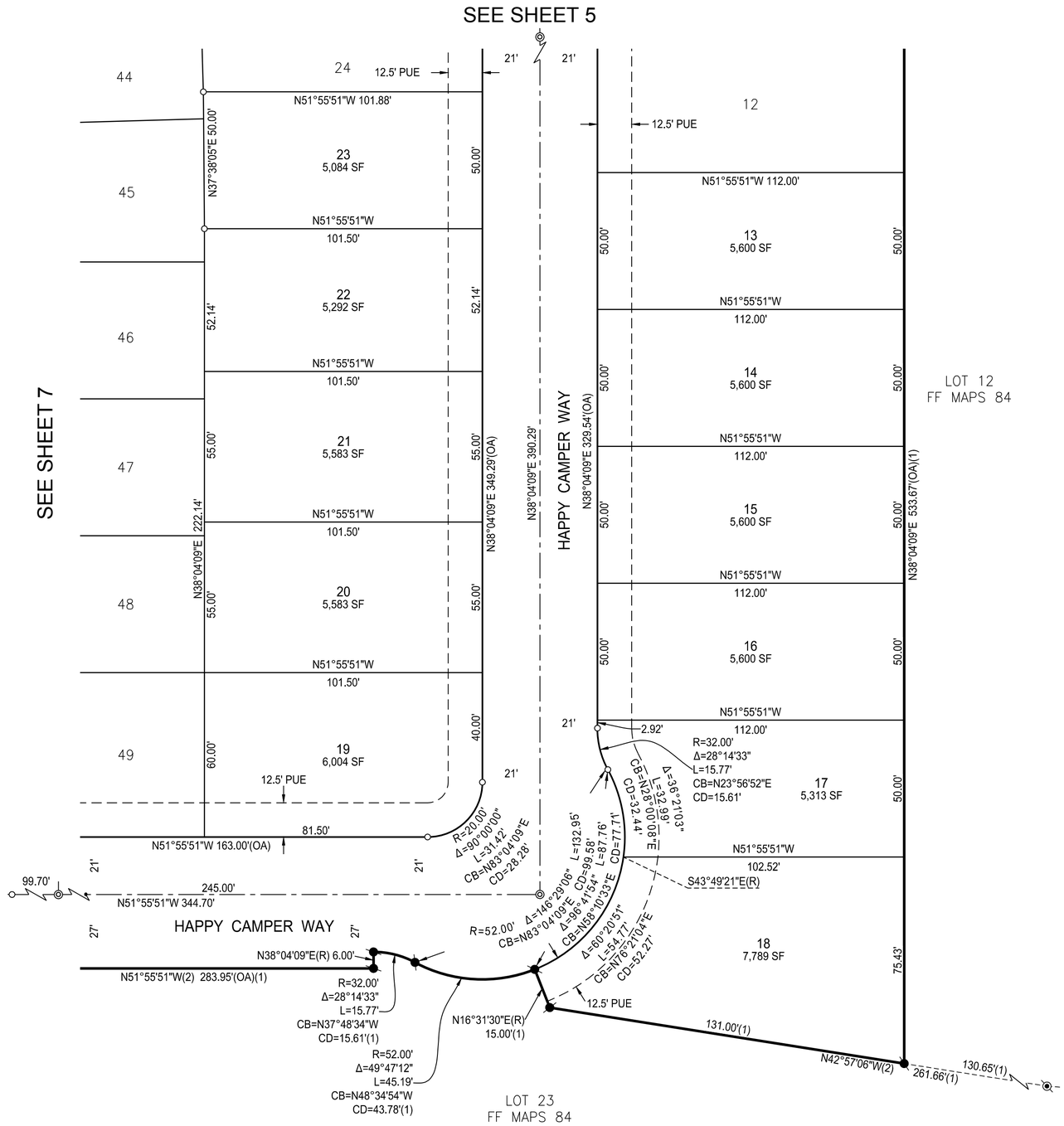
BOOK_____OF MAPS, PAGE_____



FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 5

SUBDIVISION NO. PL20-0201

ALL OF LOT 5 AS SHOWN ON THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

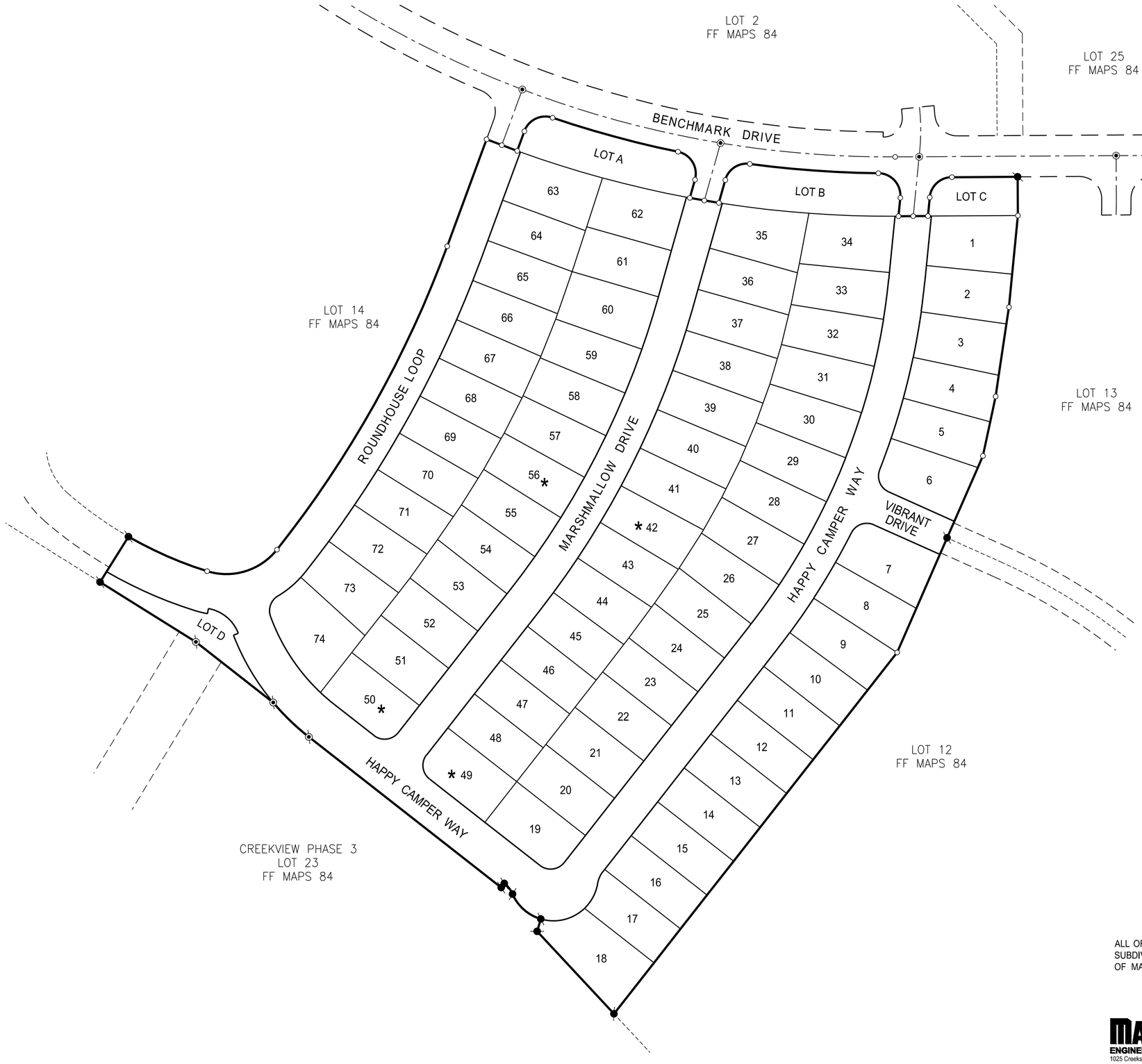
CITY OF ROSEVILLE • PLACER COUNTY • CALIFORNIA

MACKAY & SOMPS
ENGINEERS PLANNERS SURVEYORS
1025 Creekside Ridge Drive, Suite 150, Roseville, CA 95678 (916) 773-1189

AUGUST 2022

SEE SHEET 2 FOR NOTES, REFERENCES, BASIS OF BEARINGS AND LEGEND

18431.CV.PH3.V5



ADDITIONAL INFORMATION FOR INFORMATIONAL PURPOSES ONLY PURSUANT TO SECTION 66434.2 OF THE GOVERNMENT CODE

EACH RESIDENTIAL DWELLING CONSTRUCTED ON ANY OF THE LOTS INDICATED SHALL BE FITTED WITH A SEWER BACKFLOW PREVENTER VALVE AS APPROVED BY THE CITY OF ROSEVILLLE. IT SHALL BE THE RESPONSIBILITY OF THE OWNER OF SAID DWELLING TO MAINTAIN THE VALVE AND PREVENT DAMAGE FROM OCCURRING THERETO. THE CITY OF ROSEVILLE SHALL NOT BE RESPONSIBLE FOR THE MAINTENANCE OR PERFORMANCE OF THE VALVE, AND THE CITY OF ROSEVILLE SHALL NOT BE LIABLE FOR ANY DAMAGE OCCURRING TO ANY SUCH DWELLING OR ITS CONTENTS DUE TO FAILURE OF THE VALVE FOR ANY REASON WHATSOEVER.

LEGEND

* DENOTES SEWER BACKFLOW PREVENTER VALVE REQUIRED ON SANITARY SEWER CONNECTION BY THE CITY OF ROSEVILLE WITH THE BUILDING PERMIT AND MAINTAINED THEREAFTER BY THE OWNER.

N

0 40 80 160
SCALE: 1"=80'

FINAL MAP OF

CREEKVIEW PHASE 3
VILLAGE 5

SUBDIVISION NO. PL20-0201

ALL OF LOT 5 AS SHOWN ON THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

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1025 Creekside Ridge Drive, Suite 150, Roseville, CA 95678 (916) 773-1189

AUGUST 2022

18431.CV.PH3.V5

RESOLUTION NO. 22-316

APPROVING A SUBDIVISION AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND ANTHEM UNITED CREEKVIEW DEVELOPMENTS, LIMITED PARTNERSHIP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a subdivision agreement, by and between the City of Roseville and Anthem United Creekview Developments Limited Partnership, for the Creekview Phase 3 – Village 5 Subdivision, has been reviewed by the City 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.

PASSED AND ADOPTED by the Council of the City of Roseville this____day of _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

RECORDING REQUESTED BY AND WHEN RECORDED, PLEASE RETURN TO:

City Clerk
CITY OF ROSEVILLE
311 Vernon Street
Roseville, CA 95678

Exempt from recording fees
Pursuant to Govt. Code §27383

SUBDIVISION AGREEMENT

Creekview Phase 3 - Village 5 SUBDIVISION

THIS AGREEMENT, made and entered into this ___ day of _____, 20__, by and between the CITY OF ROSEVILLE, a municipal corporation ("CITY"), and Anthem United Creekview Developments Limited Partnership, a Washington Limited Partnership, ("SUBDIVIDER"),

W I T N E S S E T H:

WHEREAS, SUBDIVIDER is possessed of a tract of land lying in the City of Roseville, County of Placer, known as "Creekview Phase 3 Village 5 Subdivision" (Subdivision no. PL20-0201; "the Subdivision"); and

WHEREAS, a tentative map of the Subdivision was approved by the City Planning Commission on the 22nd day of July, 2021, and the final map of the Subdivision has been approved subject to the execution of this Agreement; and

WHEREAS, the final map has been filed on the ____ day of _____, 20__ in Book _____ of Parcel/Subdivision Maps at Page _____ in the Official Records, Placer County Recorder, file no. _____; and

WHEREAS, Section 18.20.110 of the Roseville Municipal Code, regulating the subdivision of land in the City, requires that SUBDIVIDER shall execute and file an agreement between itself and CITY relating to the improvements to be made in a subdivision, prior to the approval by the City Council of the final map.

NOW, THEREFORE, the parties agree as follows:

1. Rights-of-Way. Except as otherwise provided by this Agreement, CITY rejects all lands, right-of-ways, and easements offered for dedication on the final map of the Subdivision. All such offers shall, however, remain open, and shall constitute irrevocable offers of dedication in accordance with Government Code Section 66477.2. All such offers may be accepted by CITY in its sole discretion at any later date without further notice to SUBDIVIDER as provided by law.

By way of explanation only, it is the current intention of CITY to accept all or part of such irrevocable offers to dedicate upon acceptance of the improvements called for in this Agreement.

2. Improvements - Time Limit. SUBDIVIDER agrees to cause all improvements to be made and constructed in the Subdivision to fully comply with the requirements of the Roseville Municipal Code and the Subdivision Map Act of the State of California according to the improvement plans for the Subdivision prepared by Mackay and Somps Civil Engineers Inc., dated March 9, 2020 and approved by the City Engineer and including any changes or

alterations to such improvements required by the City Engineer, and to install, on or before October 31, 2023, such survey monuments as may be required by the City Engineer ("the Work"). SUBDIVIDER agrees to pay for any materials, provisions or other supplies used in, upon, for or about the performance of the Work, or for any work or labor of any kind done in connection with the Work, or for any amounts due under the Unemployment Insurance Act with respect to such work or labor.

SUBDIVIDER agrees to complete all of the Work on or before twenty-four (24) months from the date of this Agreement. If in the opinion of the City Engineer of CITY, an extension of this Agreement is not detrimental to the public welfare, he or she is, in his or her sole discretion, hereby authorized to extend the time within which the Work shall be completed for a period not to exceed twelve (12) months. Upon a written application made by SUBDIVIDER, further extensions, not to exceed an additional six (6) months, shall be reviewed and approved at the discretion of the City Engineer of CITY. Any such application extension request by SUBDIVIDER shall fully state the grounds and facts relied upon for the granting of additional extensions.

In the event that SUBDIVIDER shall fail to complete the Work within the time provided by this Agreement, CITY may, in its sole discretion and in addition to any other remedy provided in this Agreement or by law, enter upon the Subdivision and complete the Work and recover the full cost and expense of such construction from SUBDIVIDER, SUBDIVIDER's successors and assigns, or from the then owner of the Subdivision, and/or place a lien upon the Subdivision for such cost and expense.

If at anytime prior to the expiration of the time provided by this Agreement the City Engineer of CITY determines that a safety hazard exists within an existing public right-of-

way, the City Engineer shall give written notice to SUBDIVIDER to eliminate the safety hazard. If SUBDIVIDER fails to eliminate the safety hazard within five (5) calendar days of the written notice, CITY may, in its sole discretion and in addition to any other remedy provided in this Agreement or by law, eliminate the safety hazard and recover the full cost and expense of such work from SUBDIVIDER, SUBDIVIDER's successors and assigns, or from the then owner of the Subdivision, and/or place a lien upon the Subdivision for such cost and expense.

3. Acquisition and Dedication of Easements or Rights-of-Ways. If any of the Work is to be constructed or installed on land not within the Subdivision or already existing public right-of-way, no construction or installation shall be commenced before:

a. The irrevocable offer of dedication or conveyance to CITY of appropriate right-of-ways, easements or other interest in real property, and appropriate authorization from the property owner to allow construction or installation of the improvements or work; or

b. The issuance of an order of possession by a court of competent jurisdiction pursuant to the State Eminent Domain Law. SUBDIVIDER shall comply in all respects with any such order of possession.

Nothing in this Section 3 shall be construed as authorizing or granting an extension of time to SUBDIVIDER for completion of the Work.

4. Inspection Fees and Costs. The City Engineer shall inspect all of the Work improvements made in the Subdivision to see that they comply with CITY's subdivision regulations and specifications. SUBDIVIDER shall deposit the estimated inspection fee and reimburse CITY for the cost of such inspections in accordance with Roseville Municipal Code section 18.20.070.

5. Securities.

a. SUBDIVIDER shall file with this Agreement two (2) improvement securities as set forth in Roseville Municipal Code Sections 18.20.150 and 18.20.160. Each security shall be in the amount of one hundred percent (100%) of the total estimated cost of the Work as determined by the City Engineer which amount is the sum of $ 2,726,811.00 . One improvement security shall secure faithful performance of this Agreement as required by Section 66499.3(a) of the Government Code of the State of California (the "faithful performance" security). The second improvement security shall, as required by Section 66499.3(b) of the Government Code of the State of California, secure the obligations set forth in Title 15 (commencing with Section 3082) of Part 4 of Division 3 of the Civil Code of the State of California for payment to the contractor, his subcontractors and to persons renting equipment or furnishing labor or materials to them for the Work (the "payment security"). The improvement securities required under this paragraph shall also secure placement of monumentation and guarantee payment therefor as provided by California Government Code section 66496.

b. SUBDIVIDER shall also file with this Agreement a "guarantee and warranty security" in the amount of ten percent (10%) of the City Engineer's estimated cost of the Work as set forth in Section 18.20.170 of the Roseville Municipal Code to guarantee and warrant the Work for a period of one year following its completion and acceptance against any defective work or labor done, or defective materials furnished, as required by Section 66499(a)(5) of the Government Code of the State of California. The guarantee and warranty security shall be released upon SUBDIVIDER's request following expiration of the warranty period and subject to the reasonable determination of the City Engineer that SUBDIVIDER's warranty obligations have been satisfied.

c. Any bonds submitted as security pursuant to this section shall be executed by a surety company authorized to transact a surety business in the State of California. All required securities shall be in a form approved by the City Attorney of CITY.

6. Successors and Assigns – Covenant Running with the Land. This Agreement shall inure to the benefit of, and be binding upon, the successors and assigns of the respective parties. It shall be recorded in the Office of the Recorder of Placer County concurrently with the final map of the Subdivision, and shall constitute a covenant running with the land and an equitable servitude upon the real property within the Subdivision.

7. Acceptance of Improvements Upon Completion. Upon satisfactory completion of the Work, in accordance with this Agreement, CITY agrees to accept the Work and its improvements and the offers of dedication described in paragraph 1, subject to the provisions of paragraphs 1 and 10 of this Agreement.

8. Notice Regarding Construction. SUBDIVIDER shall notify the City Engineer of CITY in writing three (3) days prior to the commencement of construction of the Work.

9. Subdivider's Obligation to Warn Public During Construction. Until final acceptance of the Work, SUBDIVIDER shall give good and adequate warning to the public of each and every dangerous condition which may exist in the Work, and will take all reasonable actions to protect the public from any such dangerous condition.

10. Warranty.

a. SUBDIVIDER guarantees and warrants the public improvements which constitute the Work required by this Agreement, and agrees to remedy any defects in the improvements or the Work arising from faulty or defective materials or construction of said improvements or the Work occurring within twelve (12) months after their acceptance by CITY.

SUBDIVIDER agrees to permit inspection of all improvements in the Subdivision by the City Engineer of CITY for such period, and to reimburse CITY for the cost of such inspections.

b. If, within the warranty period, the Work or improvement or any part of the Work done, furnished, installed, or constructed fails to fulfill any of the requirements of this Agreement or the improvement plans and specifications, SUBDIVIDER shall, without delay or cost to CITY, repair, replace or reconstruct any defective or otherwise unsatisfactory part or parts of the Work. CITY may, at its sole option, perform such repair or replacement itself if SUBDIVIDER has failed to commence such repair within twenty (20) days after CITY has mailed written notice of default to SUBDIVIDER and to SUBDIVIDER'S Surety. In such event, SUBDIVIDER agrees to pay the cost of such repair and replacement by CITY and CITY may, at its option, recover such cost as a lien against the Subdivision should the cost exceed the inspection fee deposited pursuant to paragraph 4 of this Agreement.

Should CITY determine that the public safety requires repairs or replacements to be made before SUBDIVIDER can be notified, CITY may, in its sole discretion, make the necessary repairs or replacement or perform the necessary work. SUBDIVIDER shall pay to CITY the cost of such repairs and CITY may at its option recover such cost as a lien against the Subdivision.

11. Indemnification. To the fullest extent allowed by law, SUBDIVIDER shall defend, indemnify, and save and hold harmless 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 SUBDIVIDER '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.

SUBDIVIDER'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.

12. Insurance. SUBDIVIDER agrees to continuously maintain, in full force and effect, at a minimum the following policies of insurance during the term of this Agreement.

COVERAGE	LIMITS OF LIABILITY
General Liability	$2,000,000 per occurrence $4,000,000 aggregate Personal Injury: $2,000,000 per occurrence $4,000,000 aggregate
Automobile Liability	$1,000,000 combined single limit
Workers' Compensation	Statutory

a. Form. SUBDIVIDER 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.

b. Additional Insureds. SUBDIVIDER shall also provide a separate endorsement form or section of the policy showing CITY, its officers, agents, employees and volunteers as additional insureds for each type of coverage, except for Workers' Compensation, for ongoing and completed operations. Such insurance shall specifically cover the contractual

liability of SUBDIVIDER. The additional insured coverage under the SUBDIVIDER'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.

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

d. 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.

e. 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.

f. Waiver of Subrogation. SUBDIVIDER hereby agrees to waive subrogation which any insurer of SUBDIVIDER may acquire from SUBDIVIDER 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 worked performed by SUBDIVIDER, its employees, agents and subcontractors.

g. Liability/Remedies. Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve SUBDIVIDER 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.

13. Irrevocability of Security. The improvement securities furnished pursuant to paragraph 5 shall be irrevocable, shall not be limited as to time (except as to the one-year guarantee and warranty period specified in paragraph 10) and shall provide that they may be released, in whole or part, only upon the written approval of the City Engineer of CITY.

14. Attorney's Fees; Venue; Governing Law. Any action by any party to this Agreement, or any action concerning a security furnished pursuant to paragraph 5, shall be brought in the appropriate court of competent jurisdiction within the County of Placer, State of California, notwithstanding any other provision of law which may provide that such action may be brought in some other location. In the event it becomes necessary for either party to bring an action with respect to enforcement of the provisions of this Agreement, or the security therefor, the prevailing party in such action shall be awarded a reasonable attorney's fee, as may be

determined by the Court. This Agreement shall be governed by and construed in accordance with the laws of the State of California.

15. Release of Faithful Performance Security. Release of faithful performance security shall be in compliance with and pursuant to the procedures set forth in Government Code Section 66499.7. Upon the completion of all secured Work by SUBDIVIDER and written acceptance of that completed Work by CITY, and the furnishing of the warranty security as required by paragraph 5(b), the City Engineer shall authorize the release of the remaining faithful performance security.

16. Release of Payment Security. Thirty-five (35) days after a notice of completion is recorded with respect to the Work, the City Engineer of CITY may authorize the release of the payment security, in the event that no claims have been filed against said security. In the event that claims or actions are filed against the security, the City Engineer may release so much of such security as is in excess of the total of the claims made against it, plus a reasonable amount of costs and attorney's fees.

17. Automatic Termination Upon Completion and Sale of Residential Unit. This Agreement and any lien pursuant hereto shall automatically be terminated, without any further action by either party or need to record any additional document, with respect to any single-family residential lot within a parcel designated by the Specific Plan for residential use, upon completion of construction and issuance by the City of a final inspection for a dwelling unit upon such residential lot and conveyance of such improved residential lot to a bona-fide good faith purchaser thereof. In connection with its issuance of a final inspection for such improved lot, City shall confirm that: (i) all improvements which are required to serve the lot, as determined by City, have been accepted by City; (ii) the lot is included within the Maintenance CFD required

by Section 3.20 or other financing mechanism acceptable to the City, to the extent required hereby; and (iii) if and to the extent applicable to such lot, an affordable purchase or rental housing agreement has been recorded on the lot. Termination of this Agreement for any such residential lot as provided for in this section shall not in any way be construed to terminate or modify any assessment district or Mello-Roos Community Facilities District lien affecting such lot at the time of termination.

18. Failure of Performance. In addition to any other remedies provided in this Agreement or by law, in the event SUBDIVIDER fails to perform one or more of the covenants or conditions of this Agreement, CITY shall have recourse to the security given to guarantee the performance of such acts. CITY may do, or cause to be done, those acts required of SUBDIVIDER, and shall have recourse against so much of the security as is necessary to discharge the responsibility of SUBDIVIDER. In the event CITY seeks recourse against a security, CITY shall also have recourse against SUBDIVIDER for any and all amounts necessary to complete the obligations of SUBDIVIDER in the event the security is insufficient to pay such amounts. All administrative costs, including reasonable attorney's fees pursuant to Section 66499.4 of the Government Code, incurred by CITY, in addition to the costs of the improvements, shall be a proper charge against the security and SUBDIVIDER.

19. Integration. This Agreement is an integrated agreement. It supersedes all prior negotiations, representations, or agreements, either written or oral.

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

21. Notices. Any notices sent to the parties relating to this Agreement shall be sent by first class mail, postage prepaid or delivered to the following addresses:

Marc Stout, City Engineer
City of Roseville
311 Vernon Street
Roseville, CA 95678

Steve Porter , Director, Development
Anthem United Creekview Developments LP
3001 Douglas Blvd., Suite 200
Roseville, CA 95661

Either party may amend its address by giving written notice to the other.

22. 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.

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 SUBDIVIDER has caused this Agreement to be executed.

CITY OF ROSEVILLE, a municipal corporation,

BY: _____
DOMINICK CASEY
City Manager

ATTEST:

BY: _____
CARMEN AVALOS
City Clerk

Anthem United Creekview Developments Limited Partnership,
a Washington Limited Partnership

BY: _____
Print name: Brian Moore
Title: Vice President

and

BY: _____
Print name: Matt Gustus
Title: Vice President

(NOTARIZATION REQUIRED)

[L:\agreement\form agreements\subdivision agmt.docx; 2/14/2022]

APPROVED AS TO FORM:

BY:_____
MICHELLE SHEIDENBERGER
City Attorney

APPROVED AS TO SUFFICIENCY:

BY: _____
MARC STOUT
City Engineer

CALIFORNIA ACKNOWLEDGMENT **CIVIL CODE § 1189**

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 }

On July 26, 2022 (Date) before me, Bonnie Kwan, Notary Public (Here Insert Name and Title of the Officer)

personally appeared Brian Moore (Name(s) of Signer(s))

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

BONNIE KWAN
Notary Public - California
Placer County
Commission # 2317317
My Comm. Expires Dec 27, 2023

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.

Signature _____ (Signature of Notary Public)

Place Notary Seal and/or Stamp Above

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____	Signer's Name: _____
☐ Corporate Officer – Title(s): _____	☐ Corporate Officer – Title(s): _____
☐ Partner – ☐ Limited ☐ General	☐ Partner – ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other: _____	☐ Other: _____
Signer is Representing: _____	Signer is Representing: _____

©2018 National Notary Association

CALIFORNIA ACKNOWLEDGMENT **CIVIL CODE § 1189**

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 }

On July 26, 2022 before me, Bonnie Kwan, Notary Public
Date *Here Insert Name and Title of the Officer*

personally appeared Matt Gustus
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

BONNIE KWAN
Notary Public - California
Placer County
Commission # 2317317
My Comm. Expires Dec 27, 2023

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.

Signature _____
Signature of Notary Public

Place Notary Seal and/or Stamp Above

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

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Signer's Name: _____	Signer's Name: _____
☐ Corporate Officer – Title(s): _____	☐ Corporate Officer – Title(s): _____
☐ Partner – ☐ Limited ☐ General	☐ Partner – ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other: _____	☐ Other: _____
Signer is Representing: _____	Signer is Representing: _____

©2018 National Notary Association

COUNCIL COMMUNICATION

CC #: 2249
File #: 0400-04-13-1 & 0400-07

Title:	Creekview Phase 3 - Village 9 - Final Map and Subdivision Agreement
Contact:	Kerry Andrews 916-774-5346 kandrews@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.13.

RECOMMENDATION TO COUNCIL

It is recommended that the City Council take the following actions:

1. Approve the final map on file with the City Clerk and accept on behalf of the public, the public utility easements, and accept, subject to improvement, Lots A, B, C, D, E and F and the rights of way offered thereon; and
2. Adopt the attached resolution approving the Subdivision Agreement and authorize the City Manager to execute the agreement on behalf of the City.

BACKGROUND

The Development Services, Engineering section, has reviewed the subject final map and found that it is in compliance with the Subdivision Map Act and the City's Subdivision Ordinance and all conditions of the tentative map have been met. This map will create 97 residential lots, 3 public landscape lots and 3 open space lots.

FISCAL IMPACT

There is no fiscal impact to the City's General Fund associated with this approval.

ENVIRONMENTAL REVIEW

Approval of the Creekview - Phase 3 Village 9 final map is an action that is subject to California Environmental Quality Act (CEQA). Project level CEQA compliance for the Creekview - Phase 3 Village 9 final map was accomplished with the preparation of the Creekview Specific Plan EIR (Adopted in April 2011) (SCH#2008032017) and the Addendum to the Creekview Specific Plan EIR approved by the City of Roseville on October 23, 2019. Because the Creekview - Phase 3 Village 9 final map is consistent with the project evaluated in the Creekview Specific Plan EIR and the Addendum, no new effects would be expected to occur and all applicable mitigation measures from the Creekview Specific Plan EIR and the Addendum will be implemented. As such, no additional CEQA action is required at this time.

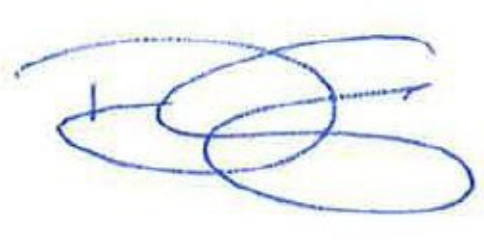
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Kerry Andrews, Assistant Engineer

Mike Isom, Development Services Director



_____

Dominick Casey, City Manager

ATTACHMENTS:

Description

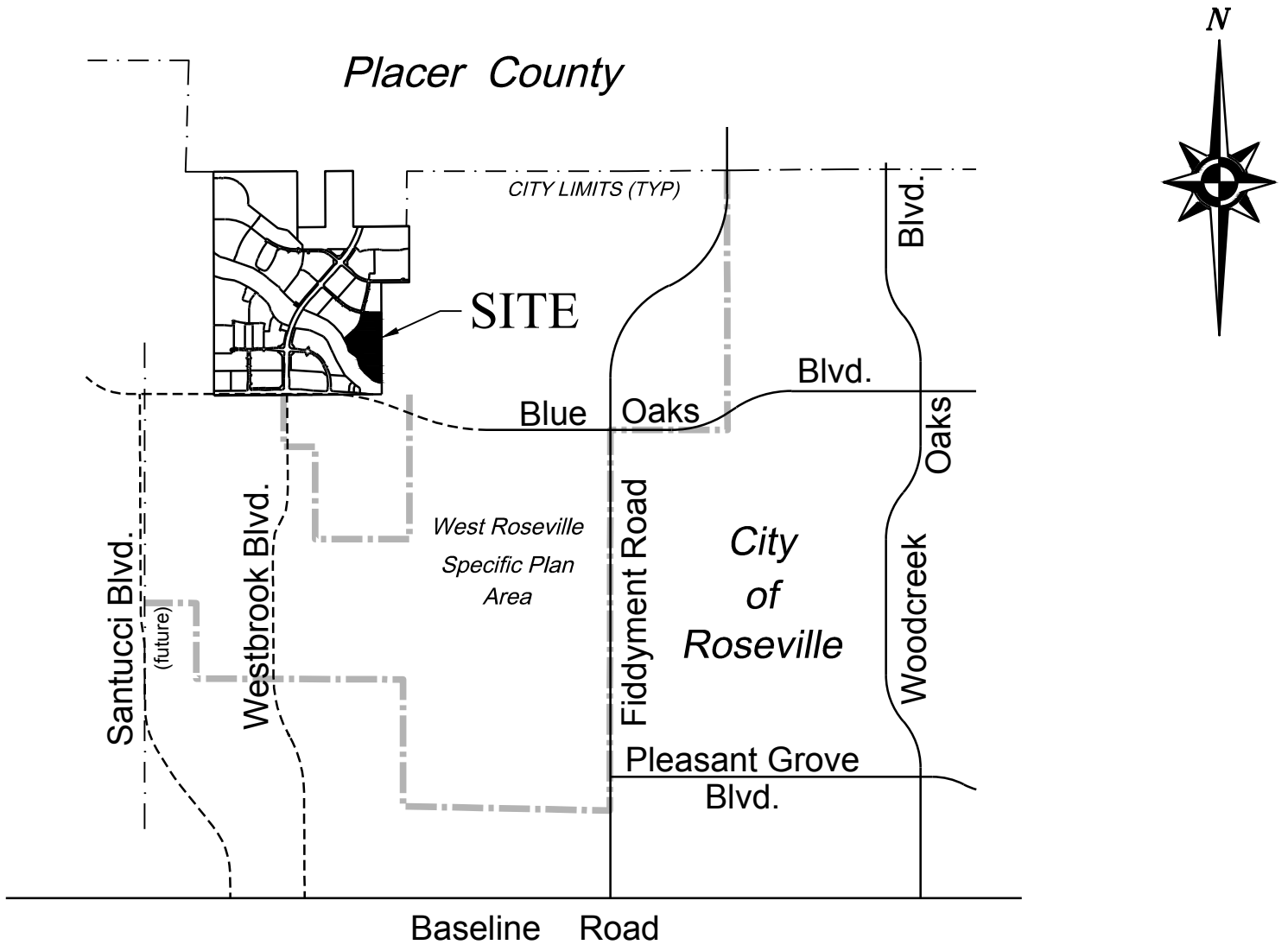
Vicinity Map

Final Map

Resolution 22-317

Subdivision Agreement

CREEKVIEW PHASE 3 VILLAGE 9



VICINITY MAP

BOOK_____OF MAPS, PAGE_____

OWNER'S STATEMENT

THE UNDERSIGNED HEREBY CERTIFY THAT THEY ARE THE ONLY PERSONS HAVING ANY RECORD TITLE INTEREST IN THE REAL PROPERTY INCLUDED WITHIN THE SUBDIVISION SHOWN UPON THIS FINAL MAP OF "CREEKVIEW PHASE 3 VILLAGE 9" AND THEY HEREBY CONSENT TO THE PREPARATION AND RECORDATION OF THIS FINAL MAP AND HEREBY OFFER FOR DEDICATION AND DO HEREBY DEDICATE FOR SPECIFIC PURPOSES THE FOLLOWING:

THE REAL PROPERTY DESCRIBED BELOW IS DEDICATED AS EASEMENTS FOR PUBLIC PURPOSES:

(A) A PUBLIC EASEMENT FOR THE INSTALLATION AND MAINTENANCE OF, BUT NOT LIMITED TO ELECTROLIERS, WATER AND GAS PIPES, SEWER AND DRAINAGE PIPES, AND FOR UNDERGROUND WIRE AND CONDUITS FOR ELECTRIC, TELEPHONE AND TELEVISION SERVICES AND TRAFFIC CONTROL APPURTENANCES TOGETHER WITH ANY AND ALL APPURTENANCES PERTAINING THERETO ON, OVER, UNDER AND ACROSS LOTS A, B, C, D, E AND F, THE STREETS SHOWN HEREON AS CELEBRATE DRIVE, CORDUROY COURT, CREEKVIEW DRIVE, DIVERGE DRIVE, LAZY DAY LANE, FLANNEL COURT, CRESCENT MOON COURT, SNOWMELT COURT AND CREEKVIEW COURT AND THOSE STRIPS OF LAND LYING CONTIGUOUS TO THE RIGHTS-OF-WAY AS SHOWN HEREON AND DESIGNATED "PUE" (PUBLIC UTILITY EASEMENT).

(B) A PUBLIC EASEMENT FOR THE INSTALLATION AND MAINTENANCE OF DRAINAGE PIPES TOGETHER WITH ANY AND ALL APPURTENANCES PERTAINING THERETO ON, OVER, UNDER AND ACROSS THOSE AREAS AS SHOWN HEREON AND DESIGNATED "SDE" (STORM DRAINAGE EASEMENT).

THE REAL PROPERTY DESCRIBED BELOW IS DEDICATED IN FEE FOR PUBLIC PURPOSES:

(A) AS PUBLIC RIGHTS-OF-WAY (INCLUDING ALL IMPROVEMENTS THEREON) THE STREETS SHOWN HEREON AS CELEBRATE DRIVE, CORDUROY COURT, CREEKVIEW DRIVE, DIVERGE DRIVE, LAZY DAY LANE, FLANNEL COURT, CRESCENT MOON COURT, SNOWMELT COURT AND CREEKVIEW COURT.

(B) LOTS A, B AND C AS SHOWN HEREON TO THE CITY OF ROSEVILLE FOR LANDSCAPING AND AS PUBLIC RIGHTS-OF-WAY.

(C) LOTS D, E AND F AS SHOWN HEREON TO THE CITY OF ROSEVILLE FOR OPEN SPACE LOTS.

ANTHEM UNITED CREEKVIEW DEVELOPMENTS LIMITED PARTNERSHIP,
A WASHINGTON LIMITED PARTNERSHIP

BY: _____

_____

NOTARY'S ACKNOWLEDGMENT

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 _____

ON_____ BEFORE ME,_____, A NOTARY PUBLIC

PERSONALLY APPEARED _____
WHO PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE TO BE THE PERSON(S) WHOSE NAME(S) IS/ARE SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE/SHE/THEY EXECUTED THE SAME IN HIS/HER/THEIR AUTHORIZED CAPACITY(IES), AND THAT BY HIS/HER/THEIR SIGNATURE(S) ON THE INSTRUMENT THE PERSON(S), OR THE ENTITY UPON BEHALF OF WHICH THE PERSON(S) 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.

_____
SIGNATURE PRINTED NAME

MY PRINCIPAL PLACE OF BUSINESS IS _____COUNTY

MY COMMISSION EXPIRES: _____ MY COMMISSION NUMBER: _____

TRUSTEE'S STATEMENT

FIRST AMERICAN TITLE INSURANCE COMPANY, A NEBRASKA CORPORATION, AS TRUSTEE UNDER THAT CERTAIN CONSTRUCTION DEED OF TRUST AND SECURITY AGREEMENT RECORDED ON MAY 24, 2019, AS INSTRUMENT NO. 2019-0034783, ORPC AND MODIFIED BY INSTRUMENT NO. 2021-0043312 AND INSTRUMENT NO. 2022-0044720, ORPC, HEREBY CONSENTS TO THE RECORDING OF THIS MAP AND THE SUBDIVISION OF THE LANDS SHOWN HEREON.

BY: _____

_____

_____

NOTARY'S ACKNOWLEDGMENT

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 _____

ON_____ BEFORE ME,_____, A NOTARY PUBLIC

PERSONALLY APPEARED _____
WHO PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE TO BE THE PERSON(S) WHOSE NAME(S) IS/ARE SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE/SHE/THEY EXECUTED THE SAME IN HIS/HER/THEIR AUTHORIZED CAPACITY(IES), AND THAT BY HIS/HER/THEIR SIGNATURE(S) ON THE INSTRUMENT THE PERSON(S), OR THE ENTITY UPON BEHALF OF WHICH THE PERSON(S) 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.

_____
SIGNATURE PRINTED NAME

MY PRINCIPAL PLACE OF BUSINESS IS _____COUNTY

MY COMMISSION EXPIRES: _____ MY COMMISSION NUMBER: _____

SURVEYOR'S STATEMENT

THIS MAP OF "CREEKVIEW PHASE 3 VILLAGE 9" WAS PREPARED BY ME OR UNDER MY DIRECTION AND IS BASED UPON A FIELD SURVEY IN CONFORMANCE WITH THE REQUIREMENTS OF THE SUBDIVISION MAP ACT AND LOCAL ORDINANCE AT THE REQUEST OF ANTHEM UNITED CREEKVIEW DEVELOPMENTS LIMITED PARTNERSHIP, IN JANUARY, 2019, I HEREBY STATE THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN, THAT ALL THE MONUMENTS ARE OF THE CHARACTER AND OCCUPY THE POSITIONS INDICATED OR THAT THEY WILL BE SET IN THOSE POSITIONS BEFORE DECEMBER 31, 2024, AND THAT THE MONUMENTS ARE, OR WILL BE, SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, AND THAT THIS FINAL MAP SUBSTANTIALLY CONFORMS TO THE CONDITIONALLY APPROVED TENTATIVE MAP.

MACKAY & SOMPS CIVIL ENGINEERS, INC.

BY: _____
PAUL FERGUSON, JR., PLS 9265
EXPIRATION DATE: MARCH 31, 2024

DATE: _____

LICENSED LAND SURVEYOR
PAUL FERGUSON, JR.
No. 9265
STATE OF CALIFORNIA

CITY ENGINEER'S STATEMENT

I HEREBY STATE THAT I HAVE EXAMINED THIS FINAL MAP OF "CREEKVIEW PHASE 3 VILLAGE 9" AND FIND IT TO BE SUBSTANTIALLY THE SAME AS THE TENTATIVE MAP ON FILE AND ANY APPROVED ALTERATIONS THEREOF; THAT ALL PROVISIONS OF THE SUBDIVISION MAP ACT AND ALL APPLICABLE CITY ORDINANCES HAVE BEEN COMPLIED WITH.

_____ DATE: _____
MARC STOUT, R.C.E. 69879
CITY ENGINEER, CITY OF ROSEVILLE
LICENSE EXPIRES: SEPTEMBER 30, 2022

I HEREBY STATE THAT I AM SATISFIED THIS FINAL MAP OF "CREEKVIEW PHASE 3 VILLAGE 9" IS TECHNICALLY CORRECT.

FOR MARC STOUT, CITY ENGINEER, CITY OF ROSEVILLE

_____ DATE: _____
TIMOTHY G. BLAIR, PLS 8278
EXPIRES DECEMBER 31, 2023

LICENSED LAND SURVEYOR
TIMOTHY G BLAIR
Exp. 12-31-23
No. 8278
STATE OF CALIFORNIA

CITY CLERK'S STATEMENT

I HEREBY CERTIFY THAT THE CITY COUNCIL, CITY OF ROSEVILLE, HAS APPROVED THIS FINAL MAP OF "CREEKVIEW PHASE 3 VILLAGE 9", AND HAS ACCEPTED ON BEHALF OF THE PUBLIC, THE PUBLIC UTILITY EASEMENTS OFFERED HEREON FOR DEDICATION AND HAS ACCEPTED, SUBJECT TO IMPROVEMENT, LOTS A, B, C, D, E AND F, AND THE RIGHTS-OF-WAY OFFERED HEREON FOR DEDICATION.

_____
CITY CLERK, CITY OF ROSEVILLE

DATE: _____ BY: _____
ASSISTANT CITY CLERK

RECORDER'S STATEMENT

FILED THIS _____ DAY OF _____, 2022, AT _____ .M. IN BOOK _____ OF MAPS, AT PAGE _____, IN THE OFFICE OF THE PLACER COUNTY RECORDER, AT THE REQUEST OF MACKAY & SOMPS CIVIL ENGINEERS, INC.

_____ DOCUMENT NO.: _____
RECORDER OF PLACER COUNTY
STATE OF CALIFORNIA

BY:_____ FEE: $ _____
DEPUTY

FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 9

SUBDIVISION NO. PL18-0026

ALL OF LOT 9 AS SHOWN ON THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

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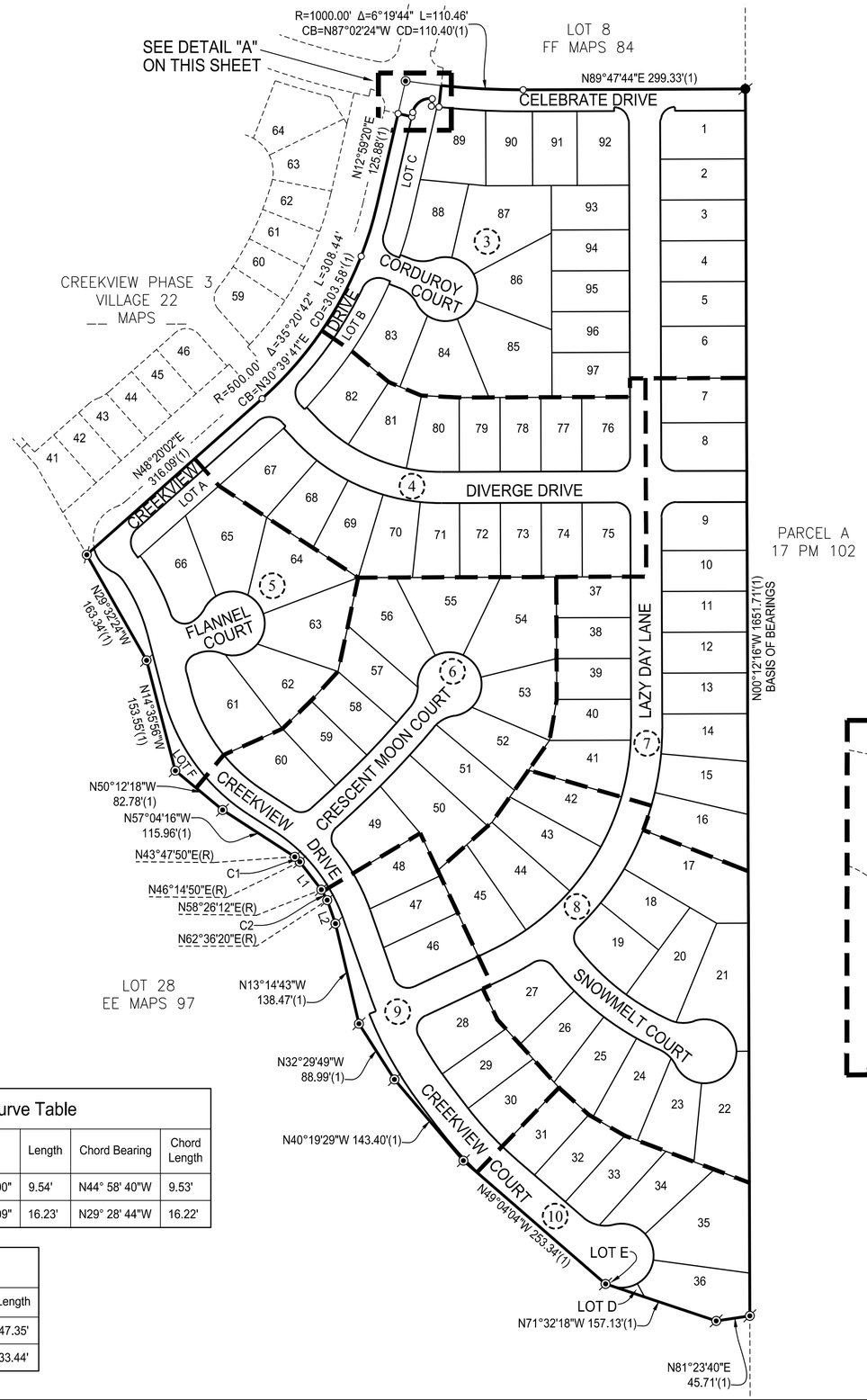
MACKAY & SOMPS
ENGINEERS PLANNERS SURVEYORS
1025 Creekside Ridge Drive, Suite 150, Roseville, CA 95678 (916) 773-1189

AUGUST 2022

SHEET 1 OF 11

18431.PH3.V9

BOOK_____ OF MAPS, PAGE_____



LEGEND:

◉	COPPERWELD SURVEY MONUMENT WITH CENTER PUNCH IN MONUMENT WELL STAMPED "LS 9265" TO BE SET PER (1)
⊙	5/8" REBAR WITH PLASTIC CAP STAMPED "LS 9265" TO BE SET PER (2)
⊘	5/8" REBAR WITH PLASTIC CAP STAMPED "LS 9265" TO BE SET PER (1)
◎	SET COPPERWELD SURVEY MONUMENT WITH CENTER PUNCH IN MONUMENT WELL STAMPED "LS 9265"
⌀	SET 5/8" REBAR WITH PLASTIC CAP STAMPED "LS 9265"
○	DIMENSION POINT
BPE	BIKE PATH EASEMENT
CB	CHORD BEARING
CD	CHORD DISTANCE
IOD	IRREVOCABLE OFFER OF DEDICATION
(OA)	OVERALL
OR	OFFICIAL RECORDS OF PLACER COUNTY
PUE	PUBLIC UTILITY EASEMENT
PM	PARCEL MAP
(R)	RADIAL BEARING
SF	SQUARE FEET
SDE	STORM DRAIN EASEMENT
(X)	SHEET INDEX NUMBER
———	BOUNDARY
———	LOT LINE
- - - - - -	ADJACENT PROPERTY
———	RIGHT-OF-WAY
— — — —	I.O.D.
— — — —	EASEMENT
—— - ——	CENTER LINE

NOTES

1. ALL CURVES ARE DIMENSIONED WITH RADIUS, DELTA, ARC LENGTH, CHORD BEARING AND CHORD LENGTH. DISTANCES SHOWN HEREON ARE IN FEET AND DECIMALS THEREOF AND ARE "GROUND" DISTANCES. DUE TO ROUNDING, THE SUM OF INDIVIDUAL DIMENSIONS MAY NOT EQUAL THE OVERALL DIMENSION.
2. TOTAL AREA FOR THIS SUBDIVISION IS 22.095± ACRES, CONSISTING OF 97 RESIDENTIAL LOTS, 3 LANDSCAPE LOTS AND 3 OPEN SPACE LOTS.
3. ALL RESIDENTIAL FRONT LOT CORNERS WILL BE SET WITH A 1" DIAMETER BRASS DISC STAMPED "LS 9265" IN THE SIDEWALK ON THE EXTENSION OF SIDE LOT LINES 1.00 FOOT FROM THE FRONT PROPERTY LINE UNLESS OTHERWISE NOTED.
4. ALL RESIDENTIAL REAR LOT CORNERS AND ANGLE POINTS WILL BE SET WITH A 5/8" REBAR WITH PLASTIC CAP STAMPED "LS 9265". WHERE MONUMENTS FALL WITHIN A SOUND WALL OR CONCRETE FOOTING A 5/8" REBAR WITH PLASTIC CAP STAMPED "LS 9265" WILL BE SET ON THE SIDE LOT LINE ON A 4.00 FOOT OFFSET TO THE REAR LOT CORNER OR A 3/4" DIAMETER BRASS TAG STAMPED "LS 9265" WILL BE SET WITH EPOXY TO THE FACE OF WALL 2.00 FOOT ABOVE GROUND OR ON TOP OF WALL WHERE AN OFFSET MONUMENT CANNOT BE SET, UNLESS OTHERWISE NOTED.
5. A PRELIMINARY SOILS REPORT WAS PREPARED BY GEOCON CONSULTANTS, INC. DATED AUGUST, 2014; PROJECT NO. S9578-05-05 AND ON FILE WITH THE CITY OF ROSEVILLE DEVELOPMENT SERVICES - ENGINEERING DEPARTMENT, FILE NO. 308-885.

BASIS OF BEARINGS:

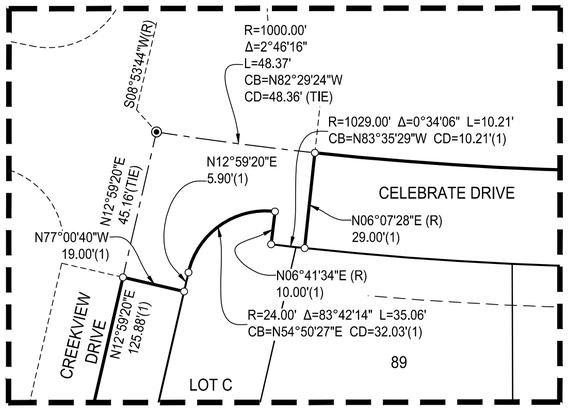
THE BASIS OF BEARINGS FOR THIS MAP IS NORTH 00°12'16" WEST ALONG THE EAST BOUNDARY LINE OF LOT 9 AS SHOWN ON THAT CERTAIN FINAL MAP ENTITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION" FILED FOR RECORD ON DECEMBER 2, 2021 IN BOOK FF OF MAPS, AT PAGE 84, PLACER COUNTY RECORDS.

REFERENCES:

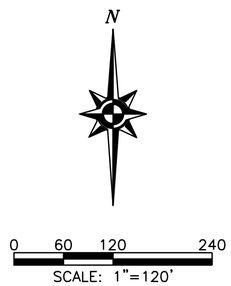
(1) FF MAPS 84
(2) EE MAPS 97

Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	223.00'	2°27'00"	9.54'	N44° 58' 40"W	9.53'
C2	223.00'	4°10'09"	16.23'	N29° 28' 44"W	16.22'

Line Table		
Line #	Bearing	Length
L1	N37° 39' 29"W	47.35'
L2	N19° 14' 14"W	33.44'



DETAIL "A"
1" = 30'



FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 9

SUBDIVISION NO. PL18-0026

ALL OF LOT 9 AS SHOWN ON THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

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AUGUST 2022

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BOOK_____OF MAPS, PAGE_____

FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 9

SUBDIVISION NO. PL18-0026

ALL OF LOT 9 AS SHOWN ON THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

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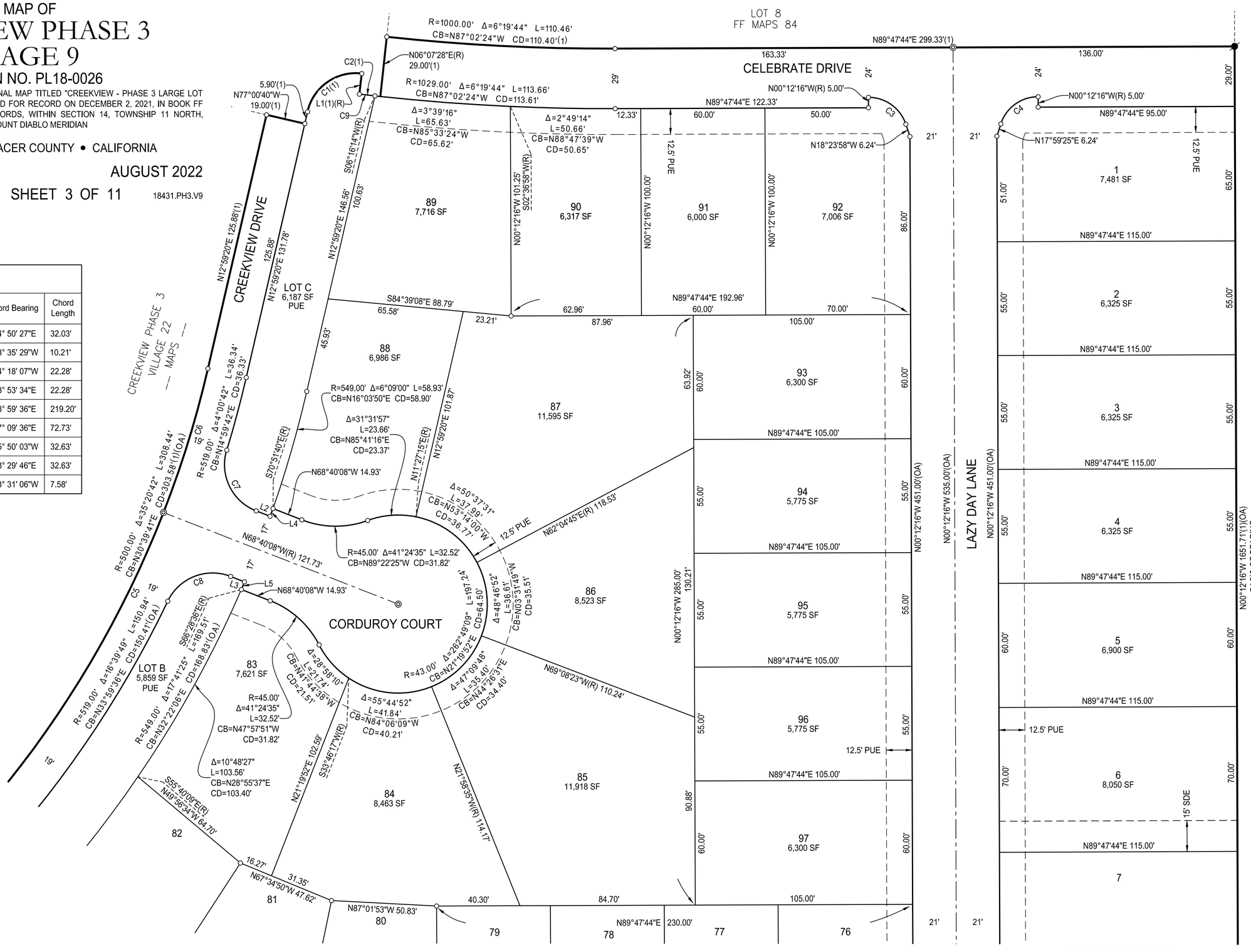
AUGUST 2022

SHEET 3 OF 11

18431.PH3.V9

Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	24.00'	83°42'14"	35.06'	N54° 50' 27"E	32.03'
C2	1029.00'	0°34'06"	10.21'	N83° 35' 29"W	10.21'
C3	19.00'	71°48'19"	23.81'	N54° 18' 07"W	22.28'
C4	19.00'	71°48'19"	23.81'	N53° 53' 34"E	22.28'
C5	500.00'	25°19'27"	221.00'	N33° 59' 36"E	219.20'
C6	500.00'	8°20'31"	72.80'	N17° 09' 36"E	72.73'
C7	24.00'	85°40'11"	35.89'	N25° 50' 03"W	32.63'
C8	24.00'	85°40'11"	35.89'	N68° 29' 46"E	32.63'
C9	1029.00'	0°25'20"	7.58'	N83° 31' 06"W	7.58'

Line Table		
Line #	Bearing	Length
L1	N06° 41' 34"E	10.00'
L2	N68° 40' 08"W	7.15'
L3	N68° 40' 08"W	7.15'
L4	N21° 19' 52"E	4.00'
L5	N21° 19' 52"E	4.00'



SEE SHEET 2 FOR NOTES, BASIS OF BEARINGS, LEGEND AND REFERENCES

SEE SHEET 4

SEE SHEET 7

BOOK_____OF MAPS, PAGE_____

N

0 30 60

SCALE: 1"=30'

CREEKVIEW PHASE 3
VILLAGE 22
-- MAPS --

CREEKVIEW DRIVE

R=500.00' Δ=35°20'42" L=308.44'
CB=N30°39'41"E CD=303.58'(1)(OA)

R=519.00' Δ=16°39'49" L=150.94'
CB=N33°59'36"E CD=150.41'(OA)

19'

C1

C2

C3

C4

N48°20'02"E 316.09'(1)(OA)
279.27'(OA)

N48°20'02"E 217.46'(OA)

N43°20'41"W(R) 70.28'

LOT A
7,719 SF
PUE

LOT B
5,859 SF
PUE

N43°20'41"W
21.66'

L1

L2

L3

L4

N48°20'02"E 258.38'(OA)
116.63'

N41°12'49"E 31.20'

N43°20'41"W 20.80'

Δ=13°36'00"
L=54.36'
CB=N30°08'41"W
CD=54.23'

Δ=8°34'41"
L=40.57'
CB=N47°38'01"W
CD=40.54'

Δ=6°52'58"
L=65.95'
CB=N37°46'20"E
CD=65.91'

R=549.00' Δ=17°41'25" L=169.51'
CB=N32°22'06"E CD=168.83'(OA)

S55°40'09"E(R)

N49°56'34"W 64.70'

N67°34'50"W 47.62'

N87°01'53"W 50.83'

N89°47'44"E 230.00'

SEE SHEET 3

83

82
6,863 SF

81
6,716 SF

80
6,187 SF

79
5,500 SF

78
5,500 SF

77
5,500 SF

76
6,414 SF

84

85

97

N33°03'19"E(R) 100.00'

N11°47'02"E(R) 100.00'

Δ=21°16'17"
L=85.02'
CB=N67°34'50"W
CD=84.53'

Δ=11°59'18"
L=47.92'
CB=N84°12'37"W
CD=47.83'

R=229.00' Δ=46°51'35" L=187.29'
CB=N66°46'29"W CD=182.11'

R=250.00' Δ=46°51'35" L=204.46'
CB=N66°46'29"W CD=198.81'

R=271.00' Δ=46°51'35" L=221.64'
CB=N66°46'29"W CD=215.51'

Δ=10°34'06"
L=49.99'
CB=N57°12'25"W
CD=49.92'

Δ=10°47'49"
L=51.07'
CB=N67°53'23"W
CD=50.99'

Δ=10°47'49"
L=51.07'
CB=N78°41'12"W
CD=50.99'

Δ=6°07'10"
L=28.94'
CB=N87°08'41"W
CD=28.93'

R=20.00'
Δ=90°00'00"
L=31.42'
CB=N44°47'44"E
CD=28.28'

R=20.00'
Δ=90°00'00"
L=31.42'
CB=N45°12'16"W
CD=28.28'

N00°12'16"W 100.00'

12.5' PUE

80.00'

N00°12'16"W 451.00'(OA)

N00°12'16"W 535.00'(OA)

N00°12'16"W 284.36'(OA)

N00°12'16"W 325.36'(OA)

21'

55.00'

65.00'

45.00'

23.95'

N89°47'44"E 233.95'

N89°47'44"E 274.95'

DIVERGE DRIVE

LAZY DAY LANE

7

8

9

10

SEE SHEET 7

67
7,477 SF

68
6,276 SF

69
6,644 SF

70
6,633 SF

71
5,852 SF

72
5,500 SF

73
5,500 SF

74
5,500 SF

75
6,414 SF

77.27'

65

N41°12'49"E 102.33'

S38°04'38"W(R)

N27°30'32"E(R) 102.44'

N56°36'50"W 224.63'
74.34'

64

N16°42'43"E(R) 116.78'

N05°54'53"E(R) 102.13'

73.03'

73.06'

63.73'

N89°47'44"E 366.79'

56

55

54

37

SEE SHEET 5

SEE SHEET 6

Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	500.00'	25°19'27"	221.00'	N33° 59' 36"E	219.20'
C2	500.00'	1°40'43"	14.65'	N47° 29' 41"E	14.65'
C3	24.00'	88°19'17"	37.00'	N87° 30' 19"W	33.44'
C4	24.00'	85°40'11"	35.89'	N00° 30' 35"W	32.63'

Line Table		
Line #	Bearing	Length
L1	N43° 20' 41"W	6.59'
L2	N43° 20' 41"W	8.04'
L3	N46° 39' 19"E	4.00'
L4	N46° 39' 19"E	4.00'

SEE SHEET 2 FOR NOTES, BASIS OF BEARINGS, LEGEND AND REFERENCES

FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 9

SUBDIVISION NO. PL18-0026

ALL OF LOT 9 AS SHOWN ON THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

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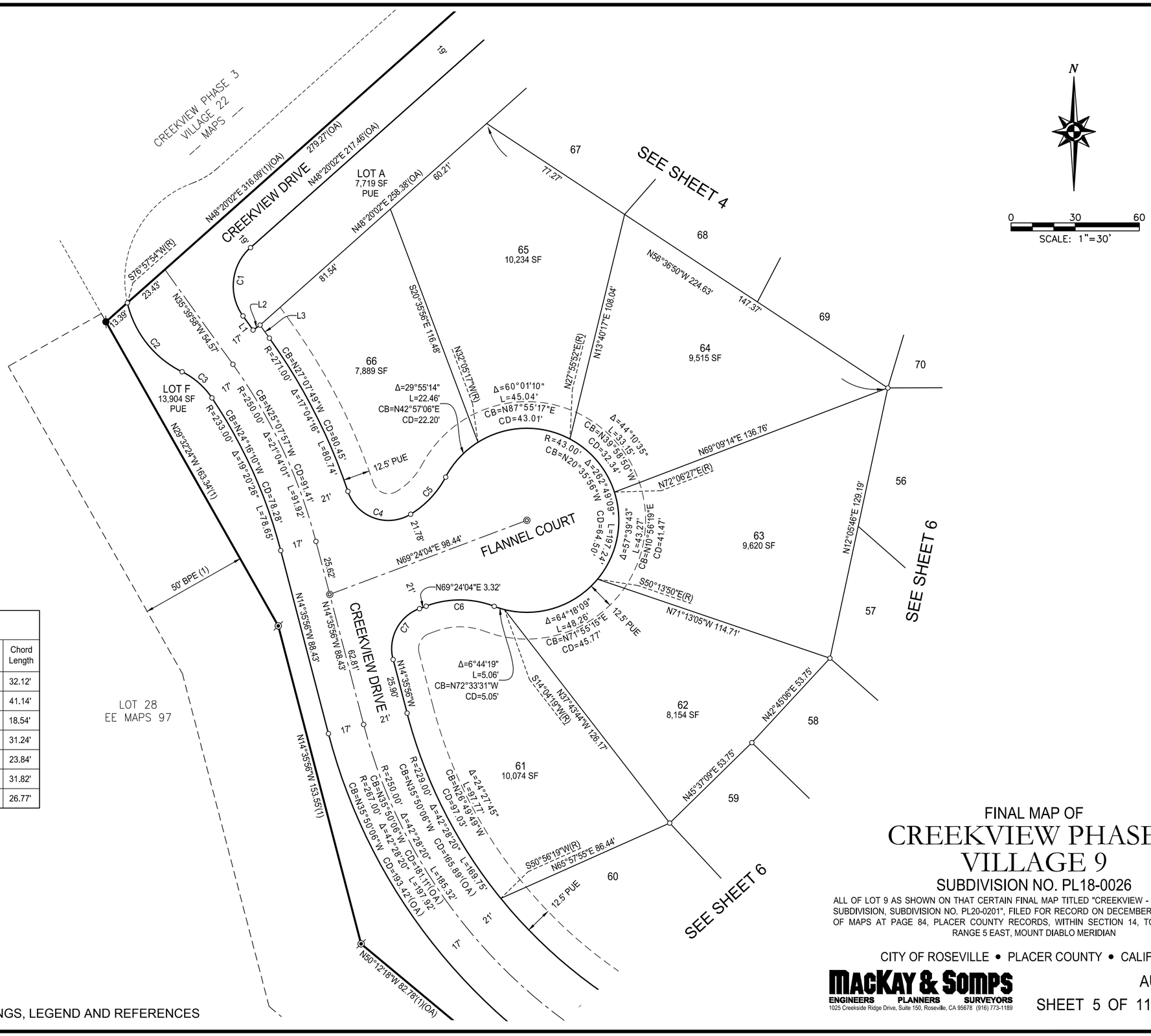
AUGUST 2022

18431.PH3.V9



Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	24.00'	84°00'00"	35.19'	N06° 20' 02"E	32.12'
C2	48.00'	50°44'40"	42.51'	N38° 24' 26"W	41.14'
C3	36.00'	29°50'23"	18.75'	N48° 51' 34"W	18.54'
C4	20.00'	102°41'36"	35.85'	N69° 56' 29"W	31.24'
C5	45.00'	30°43'14"	24.13'	N43° 21' 06"E	23.84'
C6	45.00'	41°24'35"	32.52'	N89° 53' 39"W	31.82'
C7	20.00'	84°00'00"	29.32'	N27° 24' 04"E	26.77'

Line Table		
Line #	Bearing	Length
L1	N35° 39' 58"W	8.14'
L2	N54° 20' 02"E	4.00'
L3	N35° 39' 58"W	7.50'

SEE SHEET 2 FOR NOTES, BASIS OF BEARINGS, LEGEND AND REFERENCES

FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 9

SUBDIVISION NO. PL18-0026

ALL OF LOT 9 AS SHOWN ON THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

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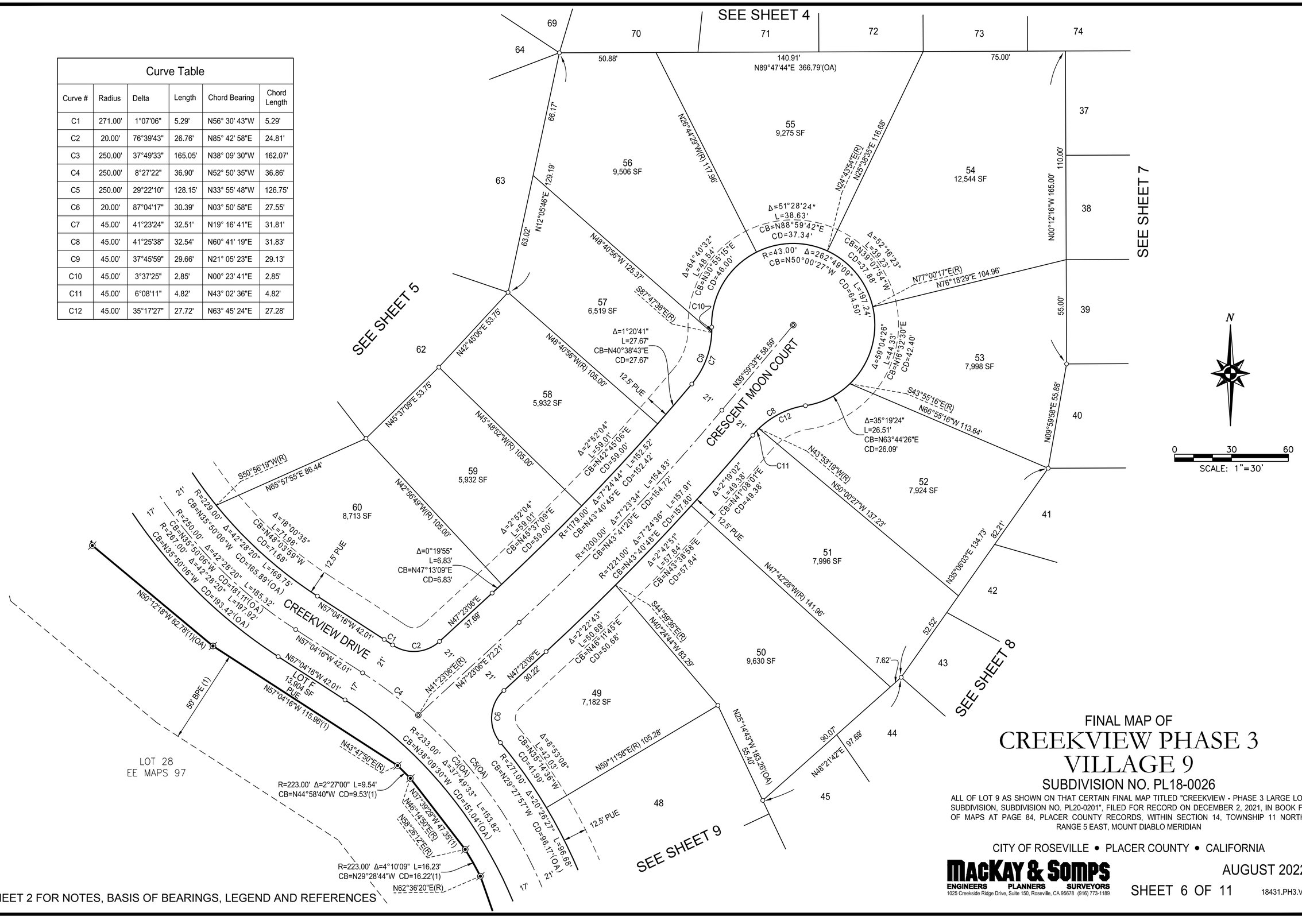
MACKAY & SOMPS
ENGINEERS PLANNERS SURVEYORS
1025 Creekside Ridge Drive, Suite 150, Roseville, CA 95678 (916) 773-1189

AUGUST 2022

18431.PH3.V9

Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	271.00'	1°07'06"	5.29'	N56° 30' 43"W	5.29'
C2	20.00'	76°39'43"	26.76'	N85° 42' 58"E	24.81'
C3	250.00'	37°49'33"	165.05'	N38° 09' 30"W	162.07'
C4	250.00'	8°27'22"	36.90'	N52° 50' 35"W	36.86'
C5	250.00'	29°22'10"	128.15'	N33° 55' 48"W	126.75'
C6	20.00'	87°04'17"	30.39'	N03° 50' 58"E	27.55'
C7	45.00'	41°23'24"	32.51'	N19° 16' 41"E	31.81'
C8	45.00'	41°25'38"	32.54'	N60° 41' 19"E	31.83'
C9	45.00'	37°45'59"	29.66'	N21° 05' 23"E	29.13'
C10	45.00'	3°37'25"	2.85'	N00° 23' 41"E	2.85'
C11	45.00'	6°08'11"	4.82'	N43° 02' 36"E	4.82'
C12	45.00'	35°17'27"	27.72'	N63° 45' 24"E	27.28'



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FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 9

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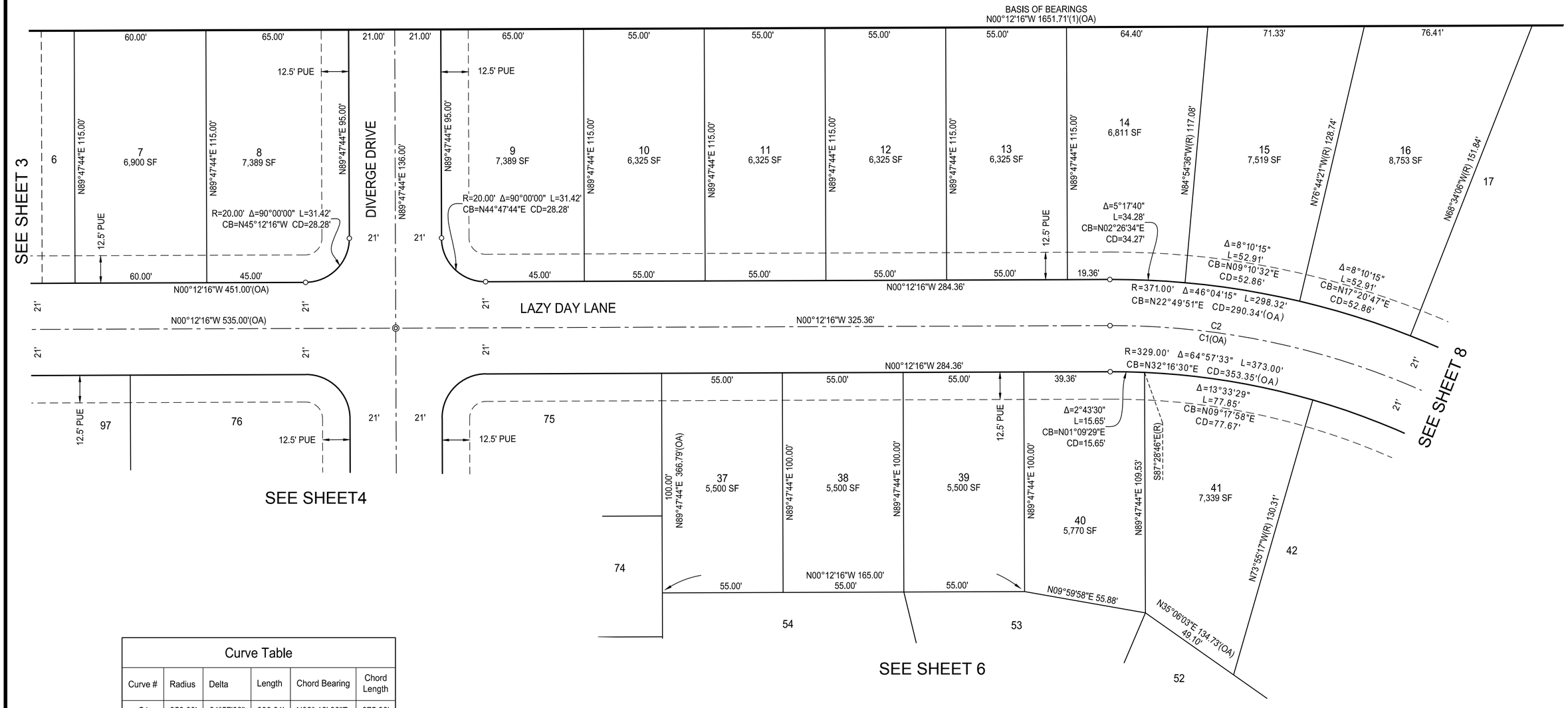
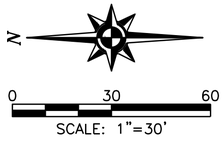
BOOK_____OF MAPS, PAGE_____

PARCEL A
17 PM 102



Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	350.00'	64°57'33"	396.81'	N32° 16' 30"E	375.90'
C2	350.00'	52°05'29"	318.21'	N25° 50' 28"E	307.36'



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CREEKVIEW PHASE 3
VILLAGE 9

SUBDIVISION NO. PL18-0026

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SHEET 7 OF 11

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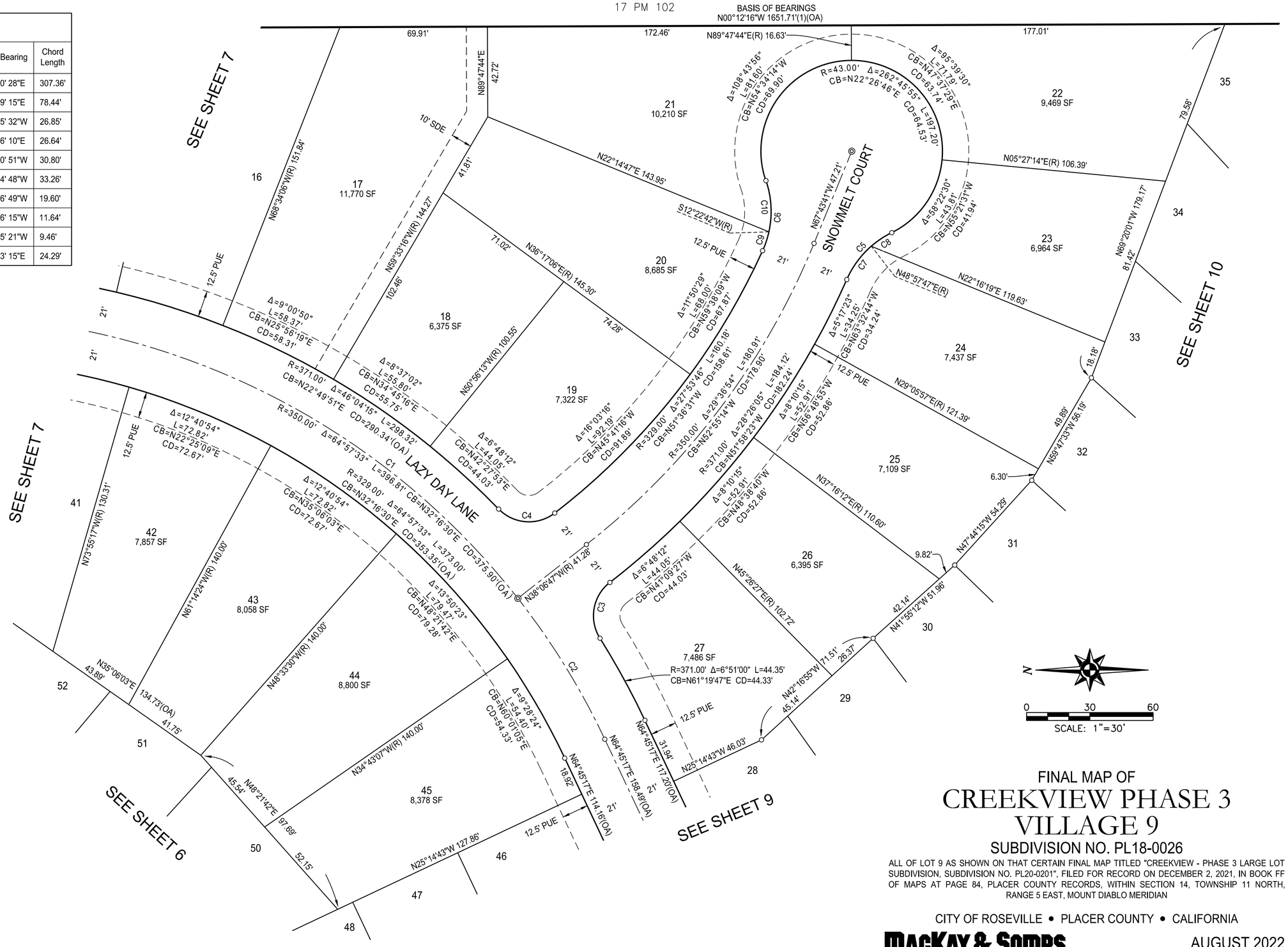
SEE SHEET 2 FOR NOTES, BASIS OF BEARINGS, LEGEND AND REFERENCES

Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	350.00'	52°05'29"	318.21'	N25° 50' 28"E	307.36'
C2	350.00'	12°52'04"	78.60'	N58° 19' 15"E	78.44'
C3	20.00'	84°20'22"	29.44'	N79° 55' 32"W	26.85'
C4	20.00'	83°31'37"	29.16'	N04° 06' 10"E	26.64'
C5	45.00'	40°01'09"	31.43'	N46° 10' 51"W	30.80'
C6	45.00'	43°22'48"	34.07'	N87° 14' 48"W	33.26'
C7	45.00'	25°09'13"	19.76'	N53° 36' 49"W	19.60'
C8	45.00'	14°51'56"	11.68'	N33° 36' 15"W	11.64'
C9	45.00'	12°03'54"	9.48'	N71° 35' 21"W	9.46'
C10	45.00'	31°18'54"	24.59'	N86° 43' 15"E	24.29'



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VILLAGE 9

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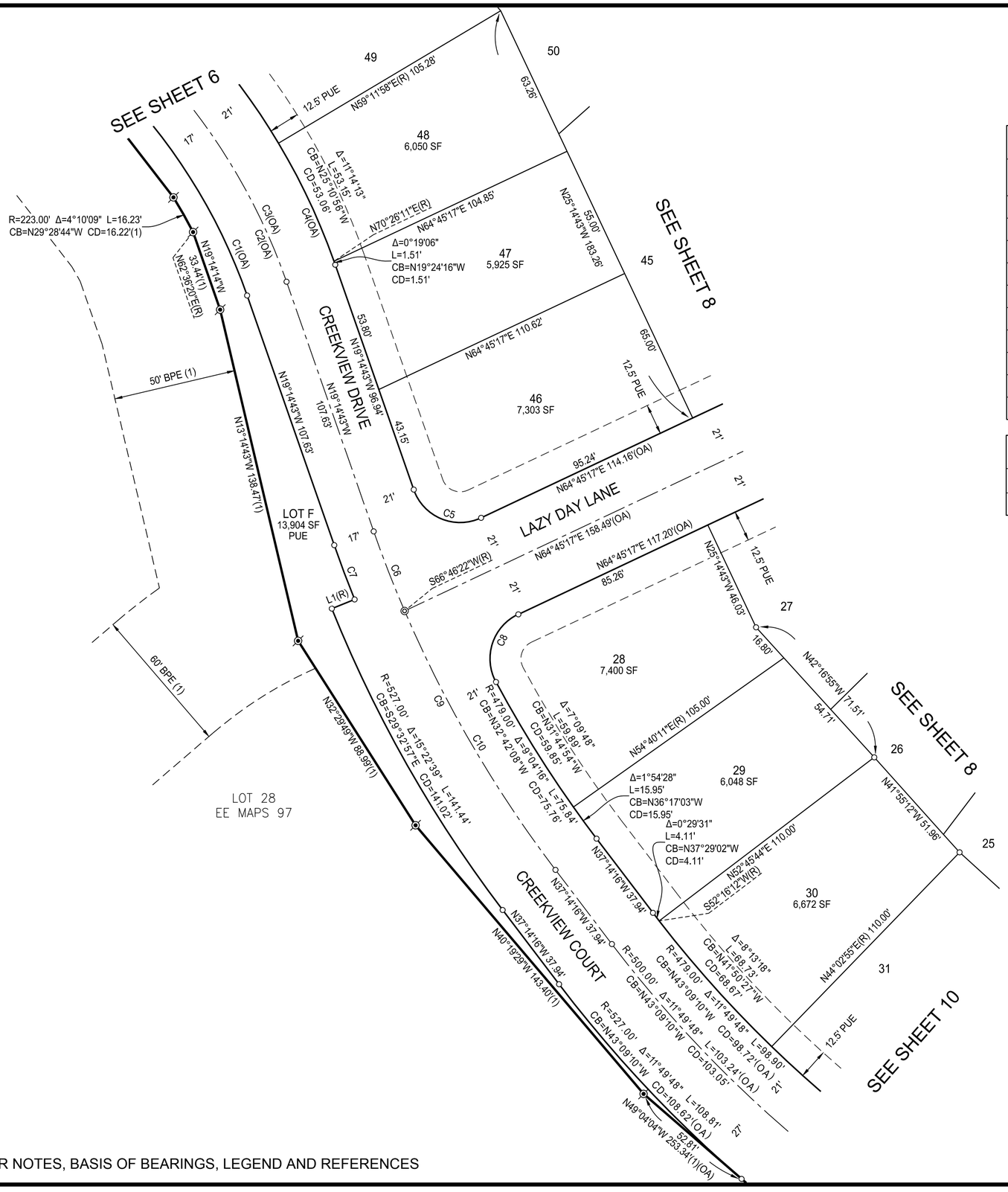

Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	233.00'	37°49'33"	153.82'	N38° 09' 30"W	151.04'
C2	250.00'	37°49'33"	165.05'	N38° 09' 30"W	162.07'
C3	250.00'	29°22'10"	128.15'	N33° 55' 48"W	126.75'
C4	271.00'	20°26'27"	96.68'	N29° 27' 57"W	96.17'
C5	20.00'	96°00'00"	33.51'	N67° 14' 43"W	29.73'
C6	500.00'	3°58'55"	34.75'	N21° 14' 11"W	34.74'
C7	517.00'	2°36'55"	23.60'	N20° 33' 11"W	23.60'
C8	20.00'	92°55'17"	32.44'	N18° 17' 38"E	29.00'
C9	500.00'	17°59'33"	157.01'	N28° 14' 30"W	156.37'
C10	500.00'	14°00'38"	122.27'	N30° 13' 57"W	121.96'

Line Table		
Line #	Bearing	Length
L1	N68° 08' 23"E	10.00'

N

0 30 60

SCALE: 1"=30'

FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 9

SUBDIVISION NO. PL18-0026

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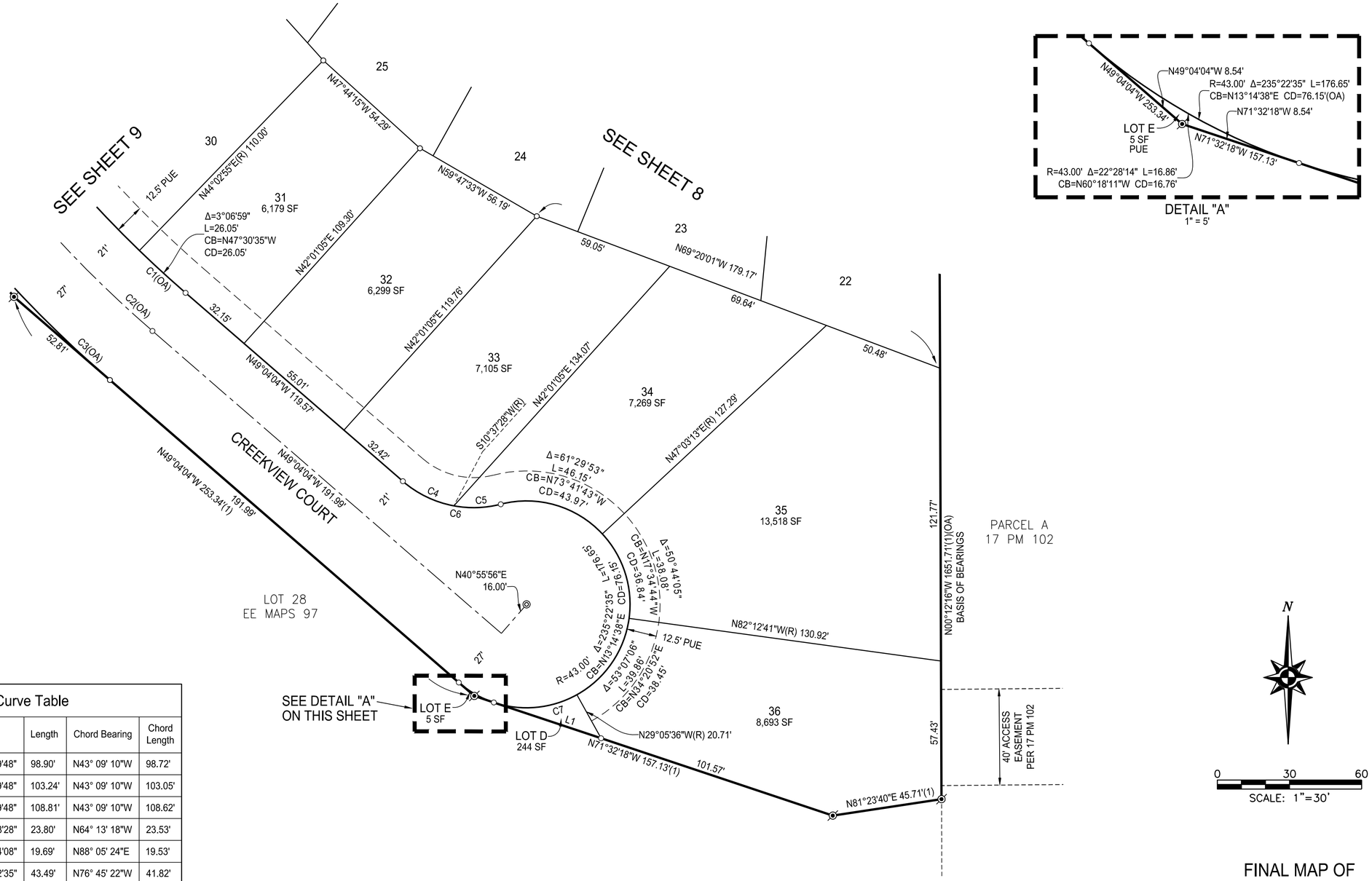

DETAIL "A"
1" = 5'

Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	479.00'	11°49'48"	98.90'	N43° 09' 10"W	98.72'
C2	500.00'	11°49'48"	103.24'	N43° 09' 10"W	103.05'
C3	527.00'	11°49'48"	108.81'	N43° 09' 10"W	108.62'
C4	45.00'	30°18'28"	23.80'	N64° 13' 18"W	23.53'
C5	45.00'	25°04'08"	19.69'	N88° 05' 24"E	19.53'
C6	45.00'	55°22'35"	43.49'	N76° 45' 22"W	41.82'
C7	43.00'	47°33'16"	35.69'	N84° 41' 03"E	34.67'

Line Table		
Line #	Bearing	Length
L1	N71° 32' 18"W	47.02'

FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 9

SUBDIVISION NO. PL18-0026

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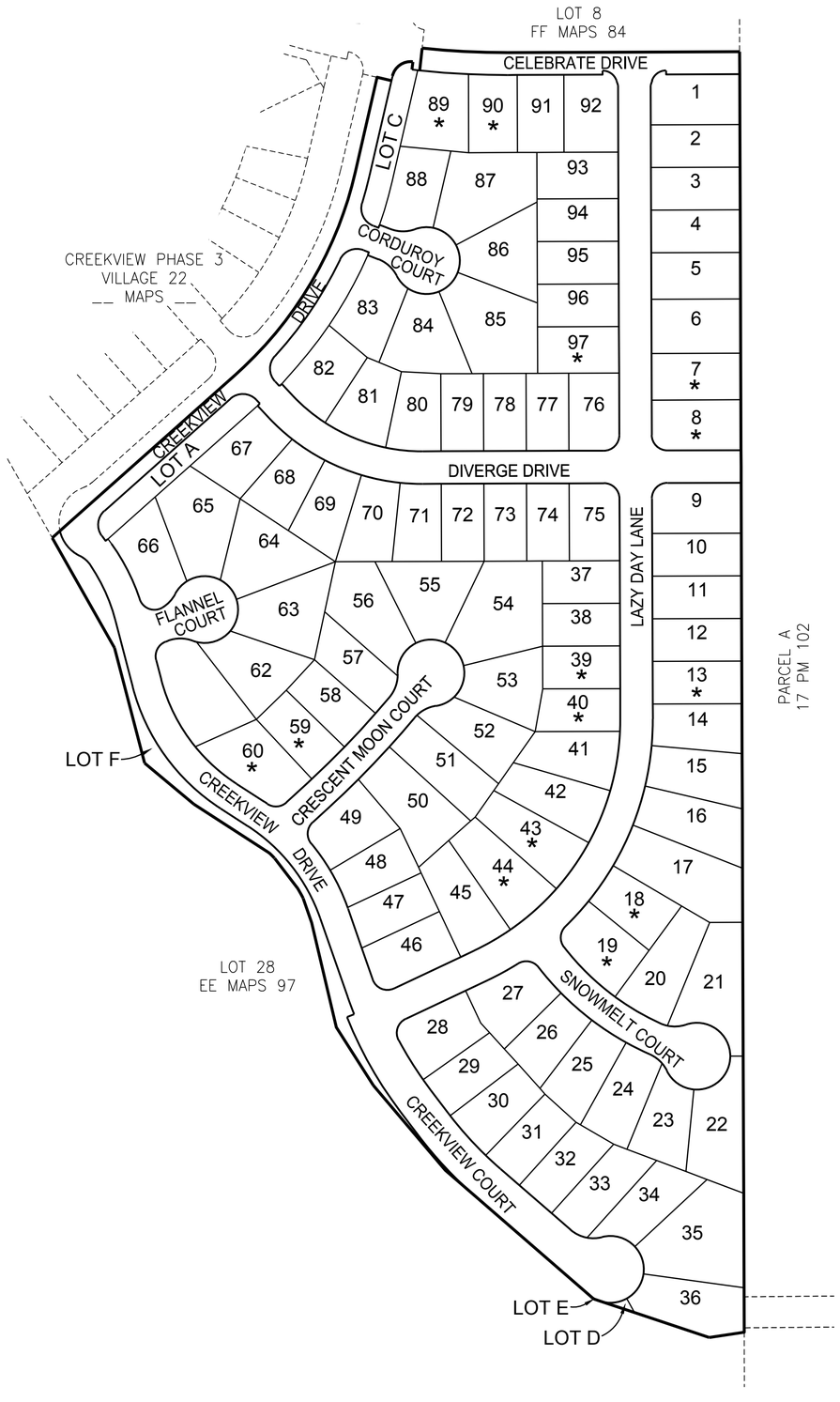

ADDITIONAL INFORMATION FOR INFORMATIONAL PURPOSES ONLY PURSUANT TO SECTION 66434.2 OF THE GOVERNMENT CODE

EACH RESIDENTIAL DWELLING CONSTRUCTED ON ANY OF THE LOTS INDICATED SHALL BE FITTED WITH A SEWER BACKFLOW PREVENTER VALVE AS APPROVED BY THE CITY OF ROSEVILLLE. IT SHALL BE THE RESPONSIBILITY OF THE OWNER OF SAID DWELLING TO MAINTAIN THE VALVE AND PREVENT DAMAGE FROM OCCURRING THERETO. THE CITY OF ROSEVILLE SHALL NOT BE RESPONSIBLE FOR THE MAINTENANCE OR PERFORMANCE OF THE VALVE, AND THE CITY OF ROSEVILLE SHALL NOT BE LIABLE FOR ANY DAMAGE OCCURRING TO ANY SUCH DWELLING OR ITS CONTENTS DUE TO FAILURE OF THE VALVE FOR ANY REASON WHATSOEVER.

LEGEND

* DENOTES SEWER BACKFLOW PREVENTER VALVE REQUIRED ON SANITARY SEWER CONNECTION BY THE CITY OF ROSEVILLE WITH THE BUILDING PERMIT AND MAINTAINED THEREAFTER BY THE OWNER.

N

0 60 120 240

SCALE:1"=120'

FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 9

SUBDIVISION NO. PL18-0026

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AUGUST 2022

18431.PH3.V9

RESOLUTION NO. 22-317

APPROVING A SUBDIVISION AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND ANTHEM UNITED CREEKVIEW DEVELOPMENTS, LIMITED PARTNERSHIP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a subdivision agreement, by and between the City of Roseville and Anthem United Creekview Developments Limited Partnership, for the Creekview Phase 3 – Village 9 Subdivision, has been reviewed by the City 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.

PASSED AND ADOPTED by the Council of the City of Roseville this____day of _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

RECORDING REQUESTED BY AND WHEN RECORDED, PLEASE RETURN TO:

City Clerk
CITY OF ROSEVILLE
311 Vernon Street
Roseville, CA 95678

Exempt from recording fees
Pursuant to Govt. Code §27383

SUBDIVISION AGREEMENT

Creekview Phase 3 - Village 9 SUBDIVISION

THIS AGREEMENT, made and entered into this ___ day of _____, 20__, by and between the CITY OF ROSEVILLE, a municipal corporation ("CITY"), and Anthem United Creekview Developments Limited Partnership, a Washington Limited Partnership, ("SUBDIVIDER"),

W I T N E S S E T H:

WHEREAS, SUBDIVIDER is possessed of a tract of land lying in the City of Roseville, County of Placer, known as " Creekview - Phase 3 Village 9 Subdivision" (Subdivision no. PL18-0026; "the Subdivision"); and

WHEREAS, a tentative map of the Subdivision was approved by the City Planning Commission on the 29th day of January, 2016, and the final map of the Subdivision has been approved subject to the execution of this Agreement; and

WHEREAS, the final map has been filed on the ____ day of _____, 20__ in Book _____ of Parcel/Subdivision Maps at Page _____ in the Official Records, Placer County Recorder, file no. _____; and

WHEREAS, Section 18.20.110 of the Roseville Municipal Code, regulating the subdivision of land in the City, requires that SUBDIVIDER shall execute and file an agreement between itself and CITY relating to the improvements to be made in a subdivision, prior to the approval by the City Council of the final map.

NOW, THEREFORE, the parties agree as follows:

1. Rights-of-Way. Except as otherwise provided by this Agreement, CITY rejects all lands, right-of-ways, and easements offered for dedication on the final map of the Subdivision. All such offers shall, however, remain open, and shall constitute irrevocable offers of dedication in accordance with Government Code Section 66477.2. All such offers may be accepted by CITY in its sole discretion at any later date without further notice to SUBDIVIDER as provided by law.

By way of explanation only, it is the current intention of CITY to accept all or part of such irrevocable offers to dedicate upon acceptance of the improvements called for in this Agreement.

2. Improvements - Time Limit. SUBDIVIDER agrees to cause all improvements to be made and constructed in the Subdivision to fully comply with the requirements of the Roseville Municipal Code and the Subdivision Map Act of the State of California according to the improvement plans for the Subdivision prepared by Mackay and Somps Civil Engineers, Inc., dated May 5, 2022 and approved by the City Engineer and including any changes or

alterations to such improvements required by the City Engineer, and to install, on or before October 31, 2023, such survey monuments as may be required by the City Engineer ("the Work"). SUBDIVIDER agrees to pay for any materials, provisions or other supplies used in, upon, for or about the performance of the Work, or for any work or labor of any kind done in connection with the Work, or for any amounts due under the Unemployment Insurance Act with respect to such work or labor.

SUBDIVIDER agrees to complete all of the Work on or before twenty-four (24) months from the date of this Agreement. If in the opinion of the City Engineer of CITY, an extension of this Agreement is not detrimental to the public welfare, he or she is, in his or her sole discretion, hereby authorized to extend the time within which the Work shall be completed for a period not to exceed twelve (12) months. Upon a written application made by SUBDIVIDER, further extensions, not to exceed an additional six (6) months, shall be reviewed and approved at the discretion of the City Engineer of CITY. Any such application extension request by SUBDIVIDER shall fully state the grounds and facts relied upon for the granting of additional extensions.

In the event that SUBDIVIDER shall fail to complete the Work within the time provided by this Agreement, CITY may, in its sole discretion and in addition to any other remedy provided in this Agreement or by law, enter upon the Subdivision and complete the Work and recover the full cost and expense of such construction from SUBDIVIDER, SUBDIVIDER's successors and assigns, or from the then owner of the Subdivision, and/or place a lien upon the Subdivision for such cost and expense.

If at anytime prior to the expiration of the time provided by this Agreement the City Engineer of CITY determines that a safety hazard exists within an existing public right-of-

way, the City Engineer shall give written notice to SUBDIVIDER to eliminate the safety hazard. If SUBDIVIDER fails to eliminate the safety hazard within five (5) calendar days of the written notice, CITY may, in its sole discretion and in addition to any other remedy provided in this Agreement or by law, eliminate the safety hazard and recover the full cost and expense of such work from SUBDIVIDER, SUBDIVIDER's successors and assigns, or from the then owner of the Subdivision, and/or place a lien upon the Subdivision for such cost and expense.

3. Acquisition and Dedication of Easements or Rights-of-Ways. If any of the Work is to be constructed or installed on land not within the Subdivision or already existing public right-of-way, no construction or installation shall be commenced before:

a. The irrevocable offer of dedication or conveyance to CITY of appropriate right-of-ways, easements or other interest in real property, and appropriate authorization from the property owner to allow construction or installation of the improvements or work; or

b. The issuance of an order of possession by a court of competent jurisdiction pursuant to the State Eminent Domain Law. SUBDIVIDER shall comply in all respects with any such order of possession.

Nothing in this Section 3 shall be construed as authorizing or granting an extension of time to SUBDIVIDER for completion of the Work.

4. Inspection Fees and Costs. The City Engineer shall inspect all of the Work improvements made in the Subdivision to see that they comply with CITY's subdivision regulations and specifications. SUBDIVIDER shall deposit the estimated inspection fee and reimburse CITY for the cost of such inspections in accordance with Roseville Municipal Code section 18.20.070.

5. Securities.

a. SUBDIVIDER shall file with this Agreement two (2) improvement securities as set forth in Roseville Municipal Code Sections 18.20.150 and 18.20.160. Each security shall be in the amount of one hundred percent (100%) of the total estimated cost of the Work as determined by the City Engineer which amount is the sum of $ 2,506,163.00 . One improvement security shall secure faithful performance of this Agreement as required by Section 66499.3(a) of the Government Code of the State of California (the "faithful performance" security). The second improvement security shall, as required by Section 66499.3(b) of the Government Code of the State of California, secure the obligations set forth in Title 15 (commencing with Section 3082) of Part 4 of Division 3 of the Civil Code of the State of California for payment to the contractor, his subcontractors and to persons renting equipment or furnishing labor or materials to them for the Work (the "payment security"). The improvement securities required under this paragraph shall also secure placement of monumentation and guarantee payment therefor as provided by California Government Code section 66496.

b. SUBDIVIDER shall also file with this Agreement a "guarantee and warranty security" in the amount of ten percent (10%) of the City Engineer's estimated cost of the Work as set forth in Section 18.20.170 of the Roseville Municipal Code to guarantee and warrant the Work for a period of one year following its completion and acceptance against any defective work or labor done, or defective materials furnished, as required by Section 66499(a)(5) of the Government Code of the State of California. The guarantee and warranty security shall be released upon SUBDIVIDER's request following expiration of the warranty period and subject to the reasonable determination of the City Engineer that SUBDIVIDER's warranty obligations have been satisfied.

c. Any bonds submitted as security pursuant to this section shall be executed by a surety company authorized to transact a surety business in the State of California. All required securities shall be in a form approved by the City Attorney of CITY.

6. Successors and Assigns – Covenant Running with the Land. This Agreement shall inure to the benefit of, and be binding upon, the successors and assigns of the respective parties. It shall be recorded in the Office of the Recorder of Placer County concurrently with the final map of the Subdivision, and shall constitute a covenant running with the land and an equitable servitude upon the real property within the Subdivision.

7. Acceptance of Improvements Upon Completion. Upon satisfactory completion of the Work, in accordance with this Agreement, CITY agrees to accept the Work and its improvements and the offers of dedication described in paragraph 1, subject to the provisions of paragraphs 1 and 10 of this Agreement.

8. Notice Regarding Construction. SUBDIVIDER shall notify the City Engineer of CITY in writing three (3) days prior to the commencement of construction of the Work.

9. Subdivider's Obligation to Warn Public During Construction. Until final acceptance of the Work, SUBDIVIDER shall give good and adequate warning to the public of each and every dangerous condition which may exist in the Work, and will take all reasonable actions to protect the public from any such dangerous condition.

10. Warranty.

a. SUBDIVIDER guarantees and warrants the public improvements which constitute the Work required by this Agreement, and agrees to remedy any defects in the improvements or the Work arising from faulty or defective materials or construction of said improvements or the Work occurring within twelve (12) months after their acceptance by CITY.

SUBDIVIDER agrees to permit inspection of all improvements in the Subdivision by the City Engineer of CITY for such period, and to reimburse CITY for the cost of such inspections.

b. If, within the warranty period, the Work or improvement or any part of the Work done, furnished, installed, or constructed fails to fulfill any of the requirements of this Agreement or the improvement plans and specifications, SUBDIVIDER shall, without delay or cost to CITY, repair, replace or reconstruct any defective or otherwise unsatisfactory part or parts of the Work. CITY may, at its sole option, perform such repair or replacement itself if SUBDIVIDER has failed to commence such repair within twenty (20) days after CITY has mailed written notice of default to SUBDIVIDER and to SUBDIVIDER'S Surety. In such event, SUBDIVIDER agrees to pay the cost of such repair and replacement by CITY and CITY may, at its option, recover such cost as a lien against the Subdivision should the cost exceed the inspection fee deposited pursuant to paragraph 4 of this Agreement.

Should CITY determine that the public safety requires repairs or replacements to be made before SUBDIVIDER can be notified, CITY may, in its sole discretion, make the necessary repairs or replacement or perform the necessary work. SUBDIVIDER shall pay to CITY the cost of such repairs and CITY may at its option recover such cost as a lien against the Subdivision.

11. Indemnification. To the fullest extent allowed by law, SUBDIVIDER shall defend, indemnify, and save and hold harmless 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 SUBDIVIDER '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.

SUBDIVIDER'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.

12. Insurance. SUBDIVIDER agrees to continuously maintain, in full force and effect, at a minimum the following policies of insurance during the term of this Agreement.

COVERAGE	LIMITS OF LIABILITY
General Liability	$2,000,000 per occurrence $4,000,000 aggregate Personal Injury: $2,000,000 per occurrence $4,000,000 aggregate
Automobile Liability	$1,000,000 combined single limit
Workers' Compensation	Statutory

a. Form. SUBDIVIDER 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.

b. Additional Insureds. SUBDIVIDER shall also provide a separate endorsement form or section of the policy showing CITY, its officers, agents, employees and volunteers as additional insureds for each type of coverage, except for Workers' Compensation, for ongoing and completed operations. Such insurance shall specifically cover the contractual

liability of SUBDIVIDER. The additional insured coverage under the SUBDIVIDER'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.

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

d. 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.

e. 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.

f. Waiver of Subrogation. SUBDIVIDER hereby agrees to waive subrogation which any insurer of SUBDIVIDER may acquire from SUBDIVIDER 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 worked performed by SUBDIVIDER, its employees, agents and subcontractors.

g. Liability/Remedies. Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve SUBDIVIDER 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.

13. Irrevocability of Security. The improvement securities furnished pursuant to paragraph 5 shall be irrevocable, shall not be limited as to time (except as to the one-year guarantee and warranty period specified in paragraph 10) and shall provide that they may be released, in whole or part, only upon the written approval of the City Engineer of CITY.

14. Attorney's Fees; Venue; Governing Law. Any action by any party to this Agreement, or any action concerning a security furnished pursuant to paragraph 5, shall be brought in the appropriate court of competent jurisdiction within the County of Placer, State of California, notwithstanding any other provision of law which may provide that such action may be brought in some other location. In the event it becomes necessary for either party to bring an action with respect to enforcement of the provisions of this Agreement, or the security therefor, the prevailing party in such action shall be awarded a reasonable attorney's fee, as may be

determined by the Court. This Agreement shall be governed by and construed in accordance with the laws of the State of California.

15. Release of Faithful Performance Security. Release of faithful performance security shall be in compliance with and pursuant to the procedures set forth in Government Code Section 66499.7. Upon the completion of all secured Work by SUBDIVIDER and written acceptance of that completed Work by CITY, and the furnishing of the warranty security as required by paragraph 5(b), the City Engineer shall authorize the release of the remaining faithful performance security.

16. Release of Payment Security. Thirty-five (35) days after a notice of completion is recorded with respect to the Work, the City Engineer of CITY may authorize the release of the payment security, in the event that no claims have been filed against said security. In the event that claims or actions are filed against the security, the City Engineer may release so much of such security as is in excess of the total of the claims made against it, plus a reasonable amount of costs and attorney's fees.

17. Automatic Termination Upon Completion and Sale of Residential Unit. This Agreement and any lien pursuant hereto shall automatically be terminated, without any further action by either party or need to record any additional document, with respect to any single-family residential lot within a parcel designated by the Specific Plan for residential use, upon completion of construction and issuance by the City of a final inspection for a dwelling unit upon such residential lot and conveyance of such improved residential lot to a bona-fide good faith purchaser thereof. In connection with its issuance of a final inspection for such improved lot, City shall confirm that: (i) all improvements which are required to serve the lot, as determined by City, have been accepted by City; (ii) the lot is included within the Maintenance CFD required

by Section 3.20 or other financing mechanism acceptable to the City, to the extent required hereby; and (iii) if and to the extent applicable to such lot, an affordable purchase or rental housing agreement has been recorded on the lot. Termination of this Agreement for any such residential lot as provided for in this section shall not in any way be construed to terminate or modify any assessment district or Mello-Roos Community Facilities District lien affecting such lot at the time of termination.

18. Failure of Performance. In addition to any other remedies provided in this Agreement or by law, in the event SUBDIVIDER fails to perform one or more of the covenants or conditions of this Agreement, CITY shall have recourse to the security given to guarantee the performance of such acts. CITY may do, or cause to be done, those acts required of SUBDIVIDER, and shall have recourse against so much of the security as is necessary to discharge the responsibility of SUBDIVIDER. In the event CITY seeks recourse against a security, CITY shall also have recourse against SUBDIVIDER for any and all amounts necessary to complete the obligations of SUBDIVIDER in the event the security is insufficient to pay such amounts. All administrative costs, including reasonable attorney's fees pursuant to Section 66499.4 of the Government Code, incurred by CITY, in addition to the costs of the improvements, shall be a proper charge against the security and SUBDIVIDER.

19. Integration. This Agreement is an integrated agreement. It supersedes all prior negotiations, representations, or agreements, either written or oral.

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

21. Notices. Any notices sent to the parties relating to this Agreement shall be sent by first class mail, postage prepaid or delivered to the following addresses:

Marc Stout, City Engineer
City of Roseville
311 Vernon Street
Roseville, CA 95678

Steve Porter, Director, Development
Anthem United Creekview Developments LP
3001 Douglas Blvd., Suite 200
Roseville, CA 95661

Either party may amend its address by giving written notice to the other.

22. 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.

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 SUBDIVIDER has caused this Agreement to be executed.

CITY OF ROSEVILLE, a
municipal corporation,

BY: _____
DOMINICK CASEY
City Manager

ATTEST:

BY: _____
CARMEN AVALOS
City Clerk

Anthem United Creekside Developments Limited Partnership,
a Washington Limited Partnership

BY: _____
Print name: Brian Moore
Title: Vice President

and

BY: _____
Print name: Matt Gustus
Title: Vice President

(NOTARIZATION REQUIRED)

[L:\agreement\form agreements\subdivision agmt.docx; 2/14/2022]

APPROVED AS TO FORM:

BY: _____
MICHELLE SHEIDENBERGER
City Attorney

APPROVED AS TO SUFFICIENCY:

BY: _____
MARC STOUT
City Engineer

CALIFORNIA ACKNOWLEDGMENT CIVIL CODE § 1189

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

On July 26, 2022 (Date) before me, Bonnie Kwan, Notary Public (Here Insert Name and Title of the Officer)

personally appeared Brian Moore (Name(s) of Signer(s))

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

BONNIE KWAN
Notary Public - California
Placer County
Commission # 2317317
My Comm. Expires Dec 27, 2023

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.

Signature _____ (Signature of Notary Public)

Place Notary Seal and/or Stamp Above

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____	Signer's Name: _____
☐ Corporate Officer – Title(s): _____	☐ Corporate Officer – Title(s): _____
☐ Partner – ☐ Limited ☐ General	☐ Partner – ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other: _____	☐ Other: _____
Signer is Representing: _____	Signer is Representing: _____

©2018 National Notary Association

CALIFORNIA ACKNOWLEDGMENT **CIVIL CODE § 1189**

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

On July 26, 2022 *Date* before me, Bonnie Kwan, Notary Public *Here Insert Name and Title of the Officer*

personally appeared Matt Gustus *Name(s) of Signer(s)*

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

BONNIE KWAN
Notary Public - California
Placer County
Commission # 2317317
My Comm. Expires Dec 27, 2023

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

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Place Notary Seal and/or Stamp Above

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Signer's Name: _____	Signer's Name: _____
☐ Corporate Officer – Title(s): _____	☐ Corporate Officer – Title(s): _____
☐ Partner – ☐ Limited ☐ General	☐ Partner – ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other: _____	☐ Other: _____
Signer is Representing: _____	Signer is Representing: _____

©2018 National Notary Association

COUNCIL COMMUNICATION

CC #: 2246
File #: 0400-04-13-1 & 0400-07

Title:	Creekview Phase 3 - Village 21 - Final Map and Subdivision Agreement
Contact:	Kerry Andrews 916-774-5346 kandrews@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.14.

RECOMMENDATION TO COUNCIL

It is recommended that the City Council take the following actions:

1. Approve the final map on file with the City Clerk and accept on behalf of the public, the public utility easements, and accept, subject to improvement, Lots A, B and C and the rights of way offered thereon, and approve the abandonment of the easements listed thereon; and
2. Adopt the attached resolution approving the Subdivision Agreement and authorize the City Manager to execute the agreement on behalf of the City.

BACKGROUND

The Development Services, Engineering section, has reviewed the subject final map and found that it is in compliance with the Subdivision Map Act and the City's Subdivision Ordinance and all conditions of the tentative map have been met. This map will create 77 residential lots and 3 public landscape lots.

FISCAL IMPACT

There is no fiscal impact to the City's General Fund associated with this approval.

ENVIRONMENTAL REVIEW

Approval of the Creekview - Phase 3 Village 21 final map is an action that is subject to California Environmental Quality Act (CEQA). Project level CEQA compliance for the Creekview - Phase 3 Village 21 final map was accomplished with the preparation of the Creekview Specific Plan EIR (Adopted in April 2011) (SCH#2008032017) and the Addendum to the Creekview Specific Plan EIR approved by the City of Roseville on October 23, 2019. Because the Creekview - Phase 3 Village 21 final map is consistent with the project evaluated in the Creekview Specific Plan EIR and the Addendum, no new effects would be expected to occur and all applicable mitigation measures from the Creekview Specific Plan EIR and the Addendum will be implemented. As

such, no additional CEQA action is required at this time.

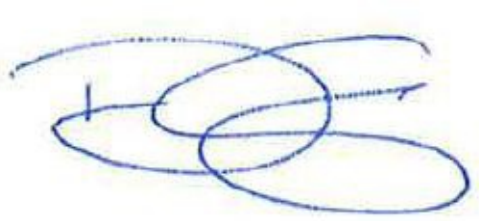
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Kerry Andrews, Assistant Engineer

Mike Isom, Development Services Director



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

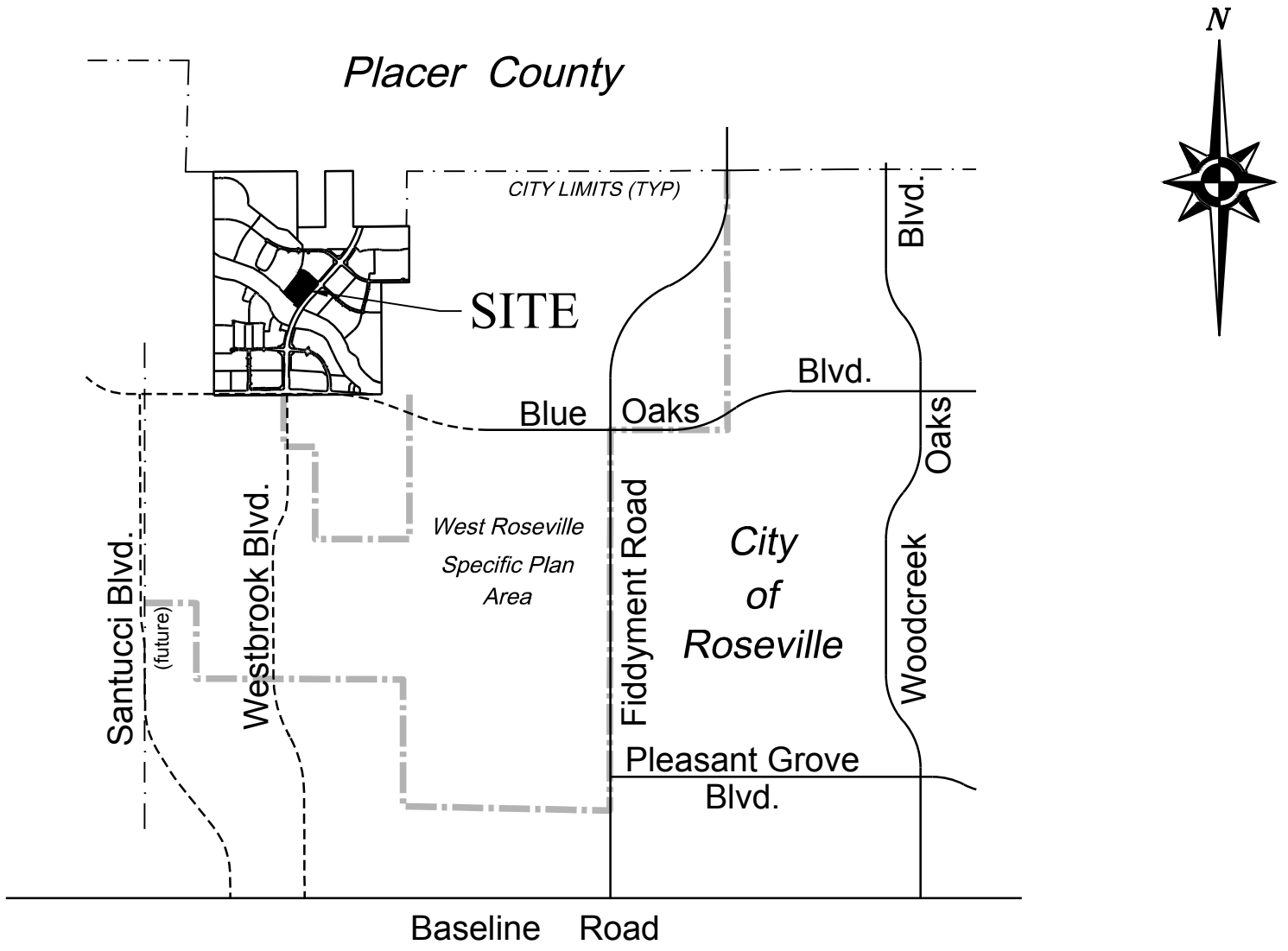
Vicinity Map

Final Map

Resolution 22-314

Subdivision Agreement

CREEKVIEW PHASE 3 VILLAGE 21



VICINITY MAP

BOOK_____ OF MAPS, PAGE_____

OWNER'S STATEMENT

THE UNDERSIGNED HEREBY CERTIFY THAT THEY ARE THE ONLY PERSONS HAVING ANY RECORD TITLE INTEREST IN THE REAL PROPERTY INCLUDED WITHIN THE SUBDIVISION SHOWN UPON THIS FINAL MAP OF "CREEKVIEW PHASE 3 VILLAGE 21" AND THEY HEREBY CONSENT TO THE PREPARATION AND RECORDATION OF THIS FINAL MAP AND HEREBY OFFER FOR DEDICATION AND DO HEREBY DEDICATE FOR SPECIFIC PURPOSES THE FOLLOWING:

THE REAL PROPERTY DESCRIBED BELOW IS DEDICATED AS EASEMENTS FOR PUBLIC PURPOSES:

(A) A PUBLIC EASEMENT FOR THE INSTALLATION AND MAINTENANCE OF, BUT NOT LIMITED TO ELECTROLIERS, WATER AND GAS PIPES, SEWER AND DRAINAGE PIPES, AND FOR UNDERGROUND WIRE AND CONDUITS FOR ELECTRIC, TELEPHONE AND TELEVISION SERVICES AND TRAFFIC CONTROL APPURTENANCES TOGETHER WITH ANY AND ALL APPURTENANCES PERTAINING THERETO ON, OVER, UNDER AND ACROSS LOTS A, B AND C, THE STREETS SHOWN HEREON AS SHADY TREE CIRCLE, VIBRANT DRIVE, HAMMOCK PLACE, LANTERN PLACE AND RUCKSACK PLACE AND THOSE STRIPS OF LAND LYING CONTIGUOUS TO THE RIGHTS-OF-WAY AS SHOWN HEREON AND DESIGNATED "PUE" (PUBLIC UTILITY EASEMENT).

THE REAL PROPERTY DESCRIBED BELOW IS DEDICATED IN FEE FOR PUBLIC PURPOSES:

(A) AS PUBLIC RIGHTS-OF-WAY (INCLUDING ALL IMPROVEMENTS THEREON) THE STREETS SHOWN HEREON AS SHADY TREE CIRCLE, VIBRANT DRIVE, HAMMOCK PLACE, LANTERN PLACE AND RUCKSACK PLACE.

(B) LOTS A, B, AND C AS SHOWN HEREON TO THE CITY OF ROSEVILLE FOR LANDSCAPING AND AS PUBLIC RIGHTS-OF-WAY.

ANTHEM UNITED CREEKVIEW DEVELOPMENTS LIMITED PARTNERSHIP,
A WASHINGTON LIMITED PARTNERSHIP

BY: _____

_____

NOTARY'S ACKNOWLEDGMENT

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 _____

ON_____ BEFORE ME,_____, A NOTARY PUBLIC

PERSONALLY APPEARED _____
WHO PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE TO BE THE PERSON(S) WHOSE NAME(S) IS/ARE SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE/SHE/THEY EXECUTED THE SAME IN HIS/HER/THEIR AUTHORIZED CAPACITY(IES), AND THAT BY HIS/HER/THEIR SIGNATURE(S) ON THE INSTRUMENT THE PERSON(S), OR THE ENTITY UPON BEHALF OF WHICH THE PERSON(S) 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.

_____
SIGNATURE PRINTED NAME

MY PRINCIPAL PLACE OF BUSINESS IS _____COUNTY

MY COMMISSION EXPIRES: _____ MY COMMISSION NUMBER: _____

TRUSTEE'S STATEMENT

FIRST AMERICAN TITLE INSURANCE COMPANY, A NEBRASKA CORPORATION, AS TRUSTEE UNDER THAT CERTAIN CONSTRUCTION DEED OF TRUST AND SECURITY AGREEMENT RECORDED ON MAY 24, 2019, AS INSTRUMENT NO. 2019-0034783, ORPC AND MODIFIED BY INSTRUMENT NO. 2021-0043312 AND INSTRUMENT NO. 2022-0044720, ORPC, HEREBY CONSENTS TO THE RECORDING OF THIS MAP AND THE SUBDIVISION OF THE LANDS SHOWN HEREON.

BY: _____

_____

_____

NOTARY'S ACKNOWLEDGMENT

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 _____

ON_____ BEFORE ME,_____, A NOTARY PUBLIC

PERSONALLY APPEARED _____
WHO PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE TO BE THE PERSON(S) WHOSE NAME(S) IS/ARE SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE/SHE/THEY EXECUTED THE SAME IN HIS/HER/THEIR AUTHORIZED CAPACITY(IES), AND THAT BY HIS/HER/THEIR SIGNATURE(S) ON THE INSTRUMENT THE PERSON(S), OR THE ENTITY UPON BEHALF OF WHICH THE PERSON(S) 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.

_____
SIGNATURE PRINTED NAME

MY PRINCIPAL PLACE OF BUSINESS IS _____COUNTY

MY COMMISSION EXPIRES: _____ MY COMMISSION NUMBER: _____

SURVEYOR'S STATEMENT

THIS MAP OF "CREEKVIEW PHASE 3 VILLAGE 21" WAS PREPARED BY ME OR UNDER MY DIRECTION AND IS BASED UPON A FIELD SURVEY IN CONFORMANCE WITH THE REQUIREMENTS OF THE SUBDIVISION MAP ACT AND LOCAL ORDINANCE AT THE REQUEST OF ANTHEM UNITED CREEKVIEW DEVELOPMENTS LIMITED PARTNERSHIP, IN JANUARY, 2019, I HEREBY STATE THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN, THAT ALL THE MONUMENTS ARE OF THE CHARACTER AND OCCUPY THE POSITIONS INDICATED OR THAT THEY WILL BE SET IN THOSE POSITIONS BEFORE DECEMBER 31, 2024, AND THAT THE MONUMENTS ARE, OR WILL BE, SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, AND THAT THIS FINAL MAP SUBSTANTIALLY CONFORMS TO THE CONDITIONALLY APPROVED TENTATIVE MAP.

MACKAY & SOMPS CIVIL ENGINEERS, INC.

BY: _____
PAUL FERGUSON, JR., PLS 9265
EXPIRATION DATE: MARCH 31, 2024

DATE: _____

LICENSED LAND SURVEYOR
PAUL FERGUSON, JR.
No. 9265
STATE OF CALIFORNIA

CITY ENGINEER'S STATEMENT

I HEREBY STATE THAT I HAVE EXAMINED THIS FINAL MAP OF "CREEKVIEW PHASE 3 VILLAGE 21" AND FIND IT TO BE SUBSTANTIALLY THE SAME AS THE TENTATIVE MAP ON FILE AND ANY APPROVED ALTERATIONS THEREOF; THAT ALL PROVISIONS OF THE SUBDIVISION MAP ACT AND ALL APPLICABLE CITY ORDINANCES HAVE BEEN COMPLIED WITH.

_____ DATE: _____
MARC STOUT, R.C.E. 69879
CITY ENGINEER, CITY OF ROSEVILLE
LICENSE EXPIRES: SEPTEMBER 30, 2022

I HEREBY STATE THAT I AM SATISFIED THIS FINAL MAP OF "CREEKVIEW PHASE 3 VILLAGE 21" IS TECHNICALLY CORRECT.

FOR MARC STOUT, CITY ENGINEER, CITY OF ROSEVILLE

_____ DATE: _____
TIMOTHY G. BLAIR, PLS 8278
EXPIRES DECEMBER 31, 2023

LICENSED LAND SURVEYOR
TIMOTHY G BLAIR
Exp. 12-31-23
No. 8278
STATE OF CALIFORNIA

CITY CLERK'S STATEMENT

I HEREBY CERTIFY THAT THE CITY COUNCIL, CITY OF ROSEVILLE, HAS APPROVED THIS FINAL MAP OF "CREEKVIEW PHASE 3 VILLAGE 21", AND HAS ACCEPTED ON BEHALF OF THE PUBLIC, THE PUBLIC UTILITY EASEMENTS OFFERED HEREON FOR DEDICATION AND HAS ACCEPTED, SUBJECT TO IMPROVEMENT, LOTS A, B AND C AND THE RIGHTS-OF-WAY OFFERED HEREON FOR DEDICATION, AND HEREBY APPROVES THE ABANDONMENT OF THE EASEMENTS LISTED WITHIN NOTE 5 ON SHEET 2.

_____
CITY CLERK, CITY OF ROSEVILLE

DATE: _____ BY: _____
ASSISTANT CITY CLERK

RECORDER'S STATEMENT

FILED THIS _____ DAY OF _____, 2022, AT _____ .M. IN BOOK _____ OF MAPS, AT PAGE _____, IN THE OFFICE OF THE PLACER COUNTY RECORDER, AT THE REQUEST OF MACKAY & SOMPS CIVIL ENGINEERS, INC.

_____ DOCUMENT NO.: _____
RECORDER OF PLACER COUNTY
STATE OF CALIFORNIA

BY:_____ FEE: $ _____
DEPUTY

FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 21

SUBDIVISION NO. PL20-0201

ALL OF LOT 12 AS SHOWN ON THAT CERTAIN FINAL MAP ENTITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

CITY OF ROSEVILLE • PLACER COUNTY • CALIFORNIA

MACKAY & SOMPS
ENGINEERS PLANNERS SURVEYORS
1025 Creekside Ridge Drive, Suite 150, Roseville, CA 95678 (916) 773-1189

AUGUST 2022

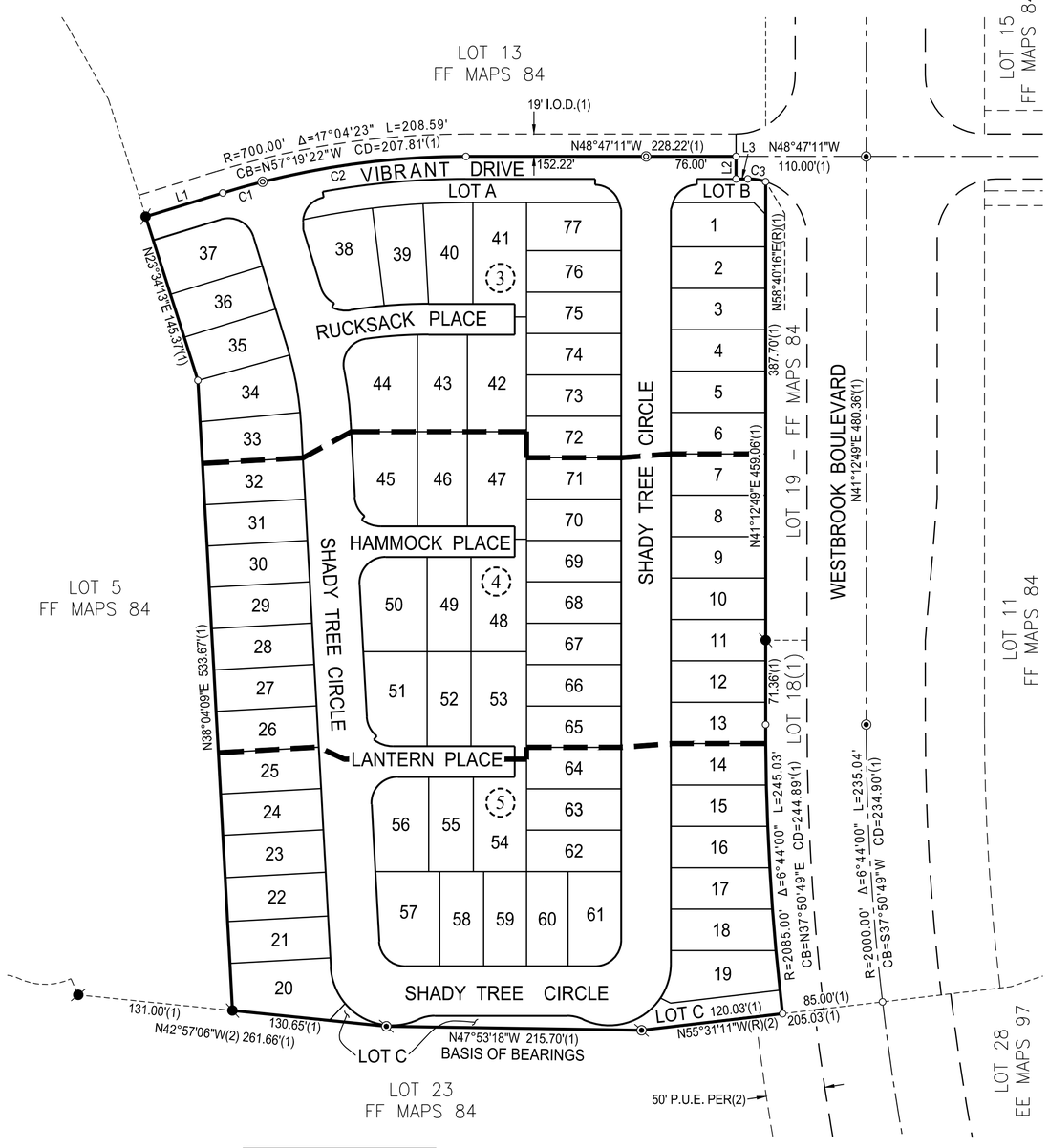
 18431.CV.PH3.V21

REFERENCES:

(1) FF MAPS 84
(2) EE MAPS 97

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS MAP IS NORTH 47°53'18" WEST AS SHOWN ON THE SOUTHWEST LINE OF LOT 12 PER THAT CERTAIN FINAL MAP ENTITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION" FILED FOR RECORD ON DECEMBER 2, 2021 IN BOOK FF OF MAPS, AT PAGE 84, PLACER COUNTY RECORDS.



LEGEND:

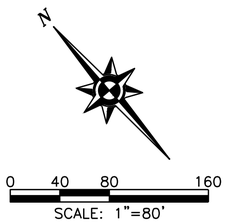
◉	COPPERWELD SURVEY MONUMENT WITH CENTER PUNCH IN MONUMENT WELL STAMPED "LS 9265" TO BE SET PER (1)
⊙	5/8" REBAR WITH PLASTIC CAP STAMPED "LS 9265" TO BE SET PER (2)
⊙	5/8" REBAR WITH PLASTIC CAP STAMPED "LS 9265" TO BE SET PER (1)
◎	SET COPPERWELD SURVEY MONUMENT WITH CENTER PUNCH IN MONUMENT WELL STAMPED "LS 9265"
⌀	SET 5/8" REBAR WITH PLASTIC CAP STAMPED "LS 9265"
⌀	SET 1" DIAMETER DISC STAMPED "LS 9265" ON TOP OF THE 8" BARRIER CURB ON A 0.30-FOOT EXTENSION OF THE SIDE LOT LINE.
○	DIMENSION POINT
CB	CHORD BEARING
CD	CHORD DISTANCE
DN	DOCUMENT NUMBER
ESMT	EASEMENT
IOD	IRREVOCABLE OFFER OF DEDICATION
(OA)	OVERALL
OR	OFFICIAL RECORDS OF PLACER COUNTY
PUE	PUBLIC UTILITY EASEMENT
R/W	RIGHTS-OF-WAY
(R)	RADIAL BEARING
SF	SQUARE FEET
(X)	SHEET INDEX NUMBER
———	BOUNDARY
———	LOT LINE
- - - - -	ADJACENT PROPERTY
———	RIGHT-OF-WAY
– – – –	I.O.D.
– – – –	EASEMENT
—·—	CENTER LINE

NOTES

1. ALL CURVES ARE DIMENSIONED WITH RADIUS, DELTA, ARC LENGTH, CHORD BEARING AND CHORD LENGTH. DISTANCES SHOWN HEREON ARE IN FEET AND DECIMALS THEREOF AND ARE "GROUND" DISTANCES. DUE TO ROUNDING, THE SUM OF INDIVIDUAL DIMENSIONS MAY NOT EQUAL THE OVERALL DIMENSION.
2. TOTAL AREA FOR THIS SUBDIVISION IS 7.923± ACRES, CONSISTING OF 77 RESIDENTIAL LOTS, 3 LANDSCAPE LOTS.
3. ALL FRONT LOT CORNERS WILL BE SET WITH:
   a. A 1" DIAMETER DISC STAMPED "LS 9265" IN THE ATTACHED SIDEWALK ON A 1-FOOT EXTENSION OF THE SIDE LOT LINE, OR
   b. IN THE GUTTER PAN ON A 1-FOOT EXTENSION OF THE SIDE LOT-LINE WHERE ATTACHED SIDEWALK DOES NOT EXIST.
4. ALL REAR LOT CORNERS AND ANGLE POINTS WILL BE SET WITH A 5/8" REBAR AND PLASTIC CAP STAMPED "LS 9265. WHERE MONUMENTS FALL WITHIN A SOUND WALL OR CONCRETE FOOTING A 5/8" REBAR, WITH PLASTIC CAP STAMPED "LS 9265" WILL BE SET ON THE SIDE LOT LINE ON A 4.00 OFFSET TO THE REAR LOT CORNER OR A 3/4" TAG STAMPED "LS 9265" WILL BE SET WITH EPOXY TO THE FACE OF WALL 2.00 FOOT ABOVE GROUND OR ON TOP OF WALL WHERE AN OFFSET MONUMENT CANNOT BE SET.
5. PURSUANT TO GOVERNMENT CODE SECTION 66434(G), THE FOLLOWING IRREVOCABLE OFFER OF DEDICATION, NOT SHOWN HEREON, IS HEREBY ABANDONED:
   a. THE PORTION OF THE THIRTY-EIGHT (38) FOOT IRREVOCABLE OFFER OF DEDICATION (IOD) VIBRANT DRIVE OVER LOT 12 ON THAT CERTAIN FINAL MAP ENTITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION", FILED FOR RECORD ON DECEMBER 2, 2021 IN BOOK FF OF MAPS , AT PAGE 84, PLACER COUNTY RECORDS.
6. A PRELIMINARY SOILS REPORT WAS PREPARED BY GEOCON CONSULTANTS, INC. DATED AUGUST, 2014; PROJECT NO. S9578-05-05 AND ON FILE WITH THE CITY OF ROSEVILLE DEVELOPMENT SERVICES - ENGINEERING DEPARTMENT, FILE NO. 308-885.

Line Table		
Line #	Bearing	Length
L1	N65°51'34"W	68.07'
L2	N41°12'49"E	19.00'
L3	N48°47'11"W	10.00'

Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	700.00'	2°51'28"	34.91'	N64° 25' 50"W	34.91'
C2	700.00'	14°12'55"	173.67'	N55° 53' 39"W	173.23'
C3	50.00'	17°27'27"	15.23'	N40° 03' 28"W	15.18'



FINAL MAP OF

CREEKVIEW PHASE 3
VILLAGE 21

SUBDIVISION NO. PL20-0201

ALL OF LOT 12 AS SHOWN ON THAT CERTAIN FINAL MAP ENTITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

CITY OF ROSEVILLE • PLACER COUNTY • CALIFORNIA

MACKAY & SOMPS
ENGINEERS PLANNERS SURVEYORS
1025 Creekside Ridge Drive, Suite 150, Roseville, CA 95678 (916) 773-1189

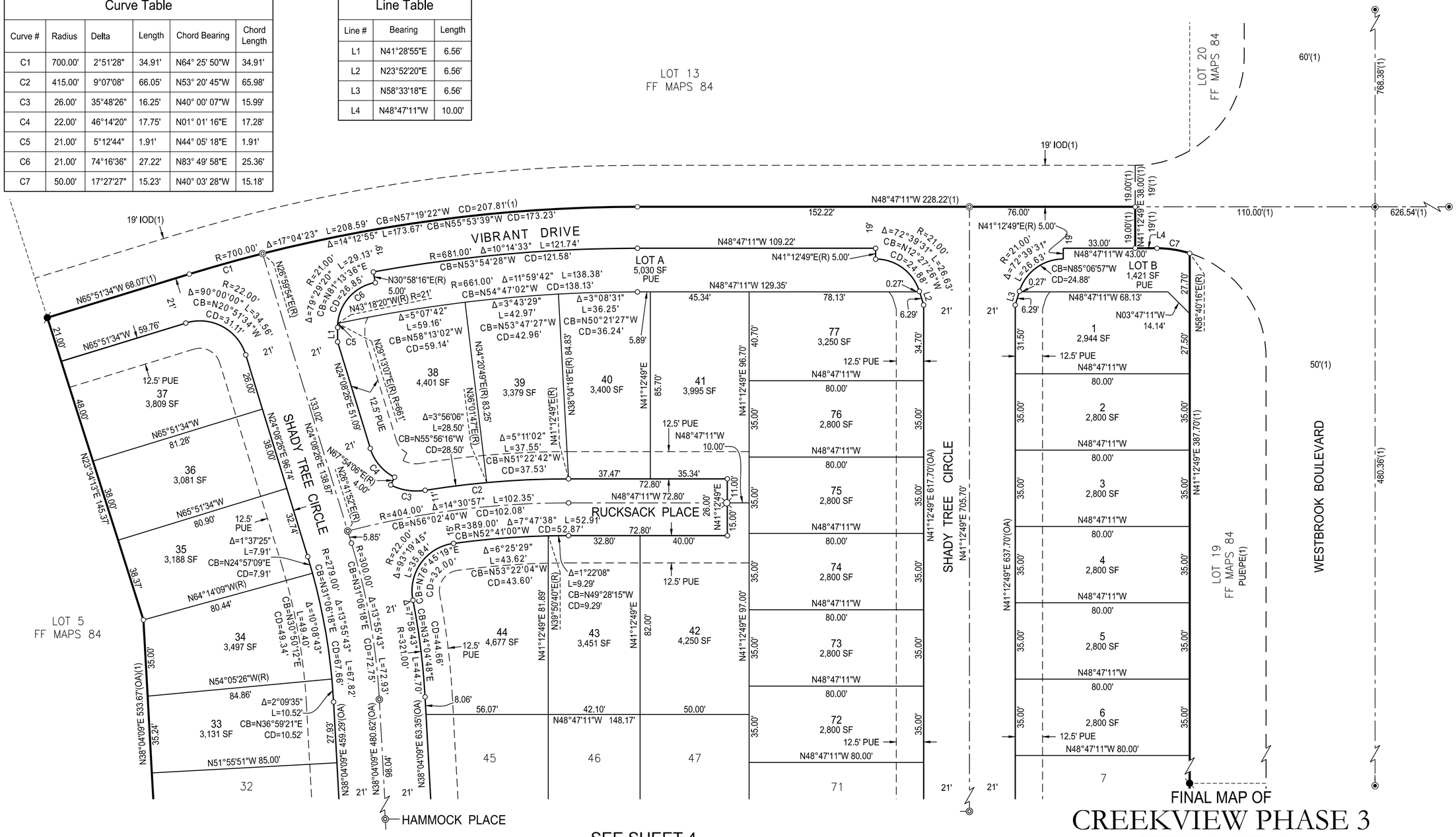
AUGUST 2022

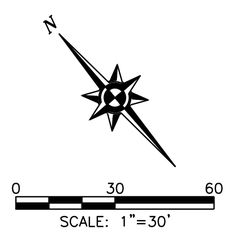
 18431.CV.PH3.V21

BOOK_____OF MAPS, PAGE_____

Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	700.00'	2°51'28"	34.91'	N64° 25' 50"W	34.91'
C2	415.00'	9°07'08"	66.05'	N53° 20' 45"W	65.98'
C3	26.00'	35°48'26"	16.25'	N40° 00' 07"W	15.99'
C4	22.00'	46°14'20"	17.75'	N01° 01' 16"E	17.28'
C5	21.00'	5°12'44"	1.91'	N44° 05' 18"E	1.91'
C6	21.00'	74°16'36"	27.22'	N83° 49' 58"E	25.36'
C7	50.00'	17°27'27"	15.23'	N40° 03' 28"W	15.18'

Line Table		
Line #	Bearing	Length
L1	N41°28'55"E	6.56'
L2	N23°52'20"E	6.56'
L3	N58°33'18"E	6.56'
L4	N48°47'11"W	10.00'





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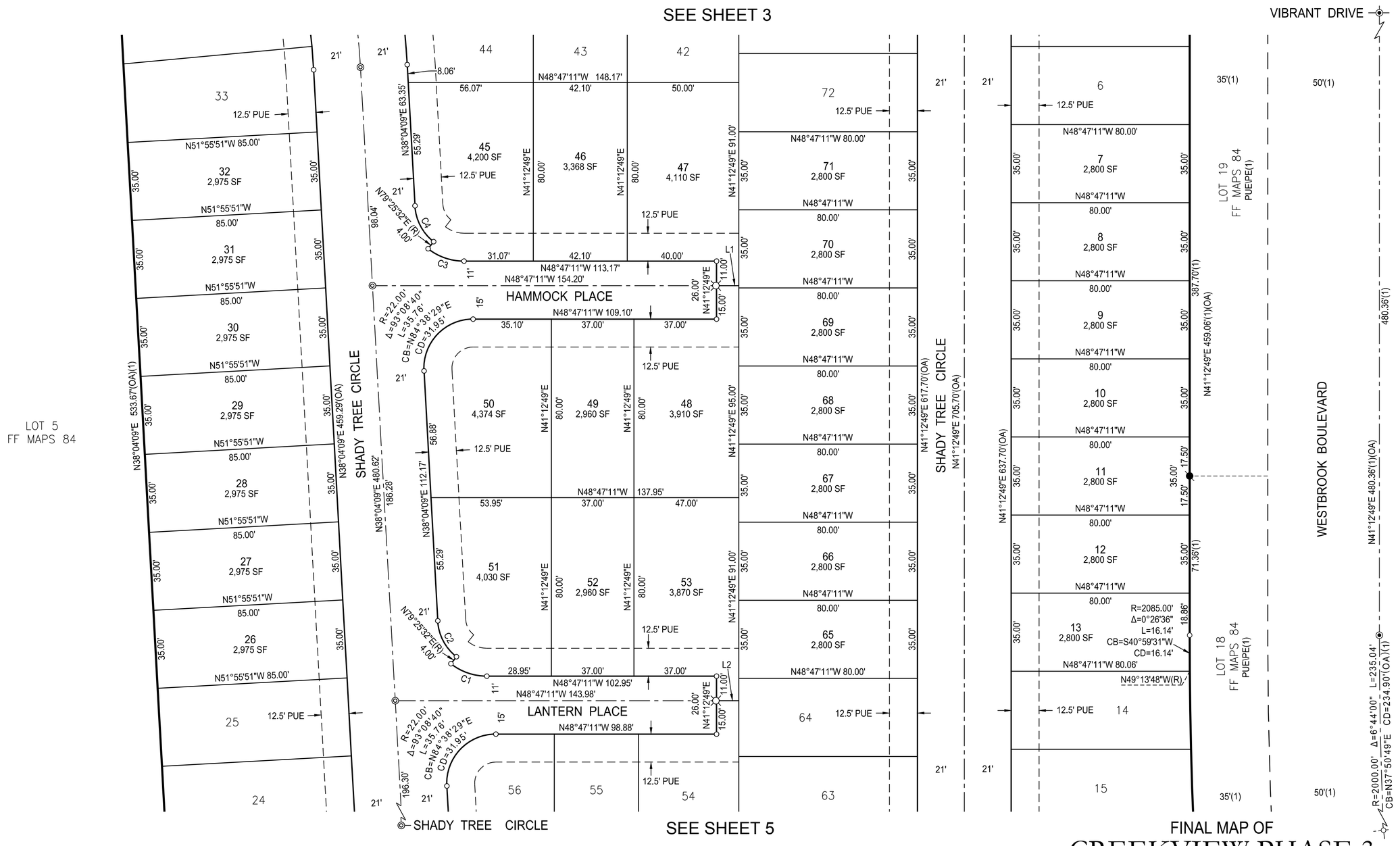
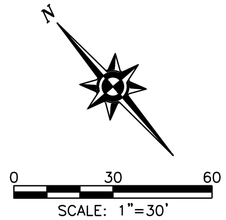
SEE SHEET 2 FOR NOTES, REFERENCES, BASIS OF BEARINGS AND LEGEND



Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	26.00'	38°12'43"	17.34'	N29° 40' 50"W	17.02'
C2	22.00'	48°38'37"	18.68'	N13° 44' 50"E	18.12'
C3	26.00'	38°12'43"	17.34'	N29° 40' 50"W	17.02'
C4	22.00'	48°38'37"	18.68'	N13° 44' 50"E	18.12'

Line Table		
Line #	Bearing	Length
L1	N48°47'11"W	10.00'
L2	N48°47'11"W	10.00'



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CREEKVIEW PHASE 3
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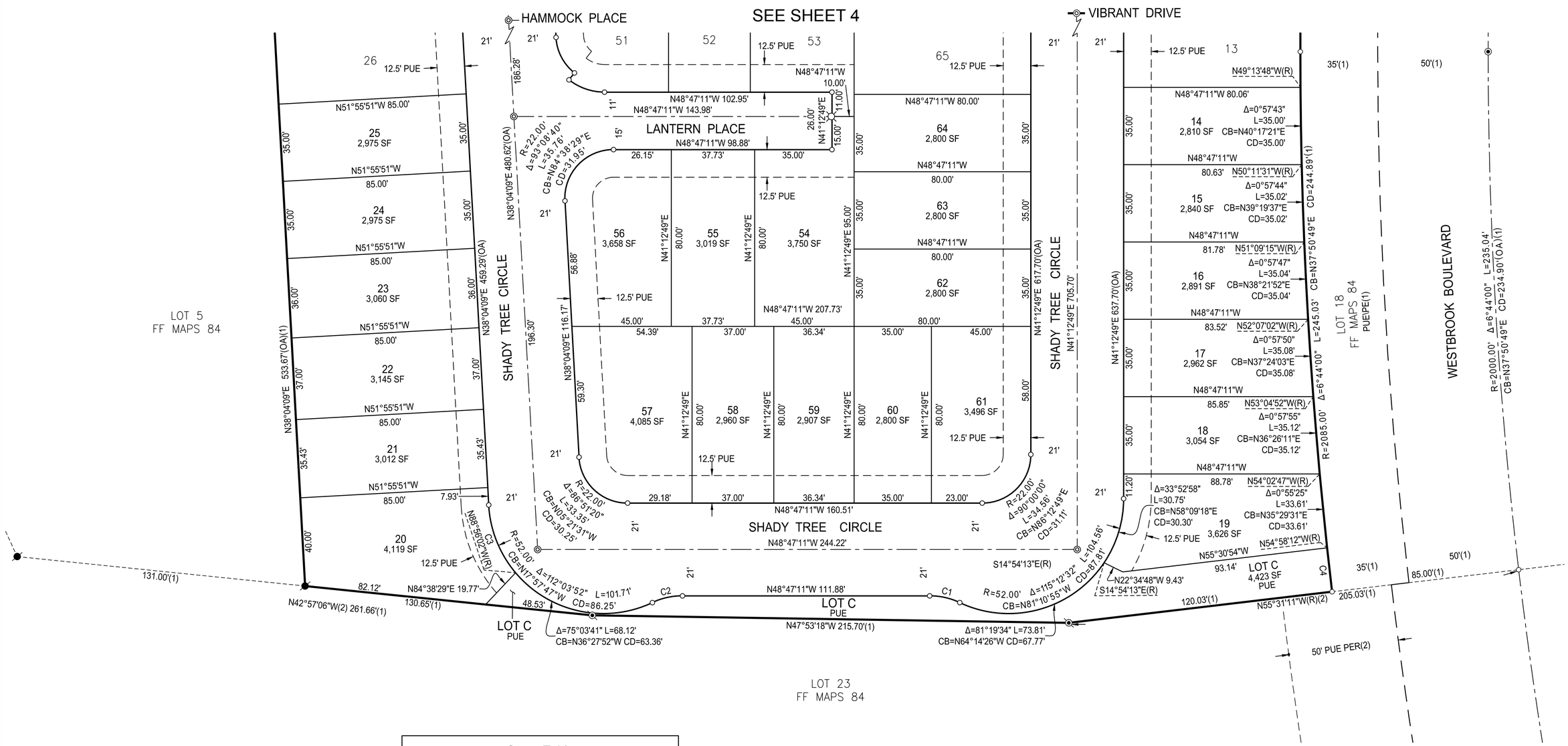

Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	32.00'	25°12'32"	14.08'	N36° 10' 55"W	13.97'
C2	32.00'	25°12'32"	14.08'	N61° 23' 27"W	13.97'
C3	52.00'	37°00'11"	33.58'	N19° 34' 04"E	33.00'
C4	2085.00'	0°33'00"	20.01'	N34° 45' 19"E	20.01'

FINAL MAP OF

CREEKVIEW PHASE 3
VILLAGE 21

SUBDIVISION NO. PL20-0201

ALL OF LOT 12 AS SHOWN ON THAT CERTAIN FINAL MAP ENTITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

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AUGUST 2022

 18431.CV.PH3.V21

SEE SHEET 2 FOR NOTES, REFERENCES, BASIS OF BEARINGS AND LEGEND

RESOLUTION NO. 22-314

APPROVING A SUBDIVISION AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND ANTHEM UNITED CREEKVIEW DEVELOPMENTS LIMITED PARTNERSHIP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a subdivision agreement, by and between the City of Roseville and Anthem United Creekview Developments Limited Partnership, for the Creekview Phase 3 – Village 21 Subdivision, has been reviewed by the City 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.

PASSED AND ADOPTED by the Council of the City of Roseville this____day of _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

RECORDING REQUESTED BY AND WHEN RECORDED, PLEASE RETURN TO:

City Clerk
CITY OF ROSEVILLE
311 Vernon Street
Roseville, CA 95678

Exempt from recording fees
Pursuant to Govt. Code §27383

SUBDIVISION AGREEMENT

Creekview Phase 3 - Village 21 SUBDIVISION

THIS AGREEMENT, made and entered into this ___ day of _____, 20__, by and between the CITY OF ROSEVILLE, a municipal corporation ("CITY"), and Anthem United Creekview Developments Limited Partnership, a Washington Limited Partnership, ("SUBDIVIDER"),

W I T N E S S E T H:

WHEREAS, SUBDIVIDER is possessed of a tract of land lying in the City of Roseville, County of Placer, known as "Creekview Phase 3 Village 21 Subdivision" (Subdivision no. PL20-0201; "the Subdivision"); and

WHEREAS, a tentative map of the Subdivision was approved by the City Planning Commission on the 22nd day of July, 2021, and the final map of the Subdivision has been approved subject to the execution of this Agreement; and

WHEREAS, the final map has been filed on the ____ day of _____, 20__ in Book _____ of Parcel/Subdivision Maps at Page _____ in the Official Records, Placer County Recorder, file no. _____; and

WHEREAS, Section 18.20.110 of the Roseville Municipal Code, regulating the subdivision of land in the City, requires that SUBDIVIDER shall execute and file an agreement between itself and CITY relating to the improvements to be made in a subdivision, prior to the approval by the City Council of the final map.

NOW, THEREFORE, the parties agree as follows:

1. Rights-of-Way. Except as otherwise provided by this Agreement, CITY rejects all lands, right-of-ways, and easements offered for dedication on the final map of the Subdivision. All such offers shall, however, remain open, and shall constitute irrevocable offers of dedication in accordance with Government Code Section 66477.2. All such offers may be accepted by CITY in its sole discretion at any later date without further notice to SUBDIVIDER as provided by law.

By way of explanation only, it is the current intention of CITY to accept all or part of such irrevocable offers to dedicate upon acceptance of the improvements called for in this Agreement.

2. Improvements - Time Limit. SUBDIVIDER agrees to cause all improvements to be made and constructed in the Subdivision to fully comply with the requirements of the Roseville Municipal Code and the Subdivision Map Act of the State of California according to the improvement plans for the Subdivision prepared by MacKay and Somps Civil Engineers, Inc., dated March 23, 2022 and approved by the City Engineer and including any changes or

alterations to such improvements required by the City Engineer, and to install, on or before October 31, 2023, such survey monuments as may be required by the City Engineer ("the Work"). SUBDIVIDER agrees to pay for any materials, provisions or other supplies used in, upon, for or about the performance of the Work, or for any work or labor of any kind done in connection with the Work, or for any amounts due under the Unemployment Insurance Act with respect to such work or labor.

SUBDIVIDER agrees to complete all of the Work on or before twenty-four (24) months from the date of this Agreement. If in the opinion of the City Engineer of CITY, an extension of this Agreement is not detrimental to the public welfare, he or she is, in his or her sole discretion, hereby authorized to extend the time within which the Work shall be completed for a period not to exceed twelve (12) months. Upon a written application made by SUBDIVIDER, further extensions, not to exceed an additional six (6) months, shall be reviewed and approved at the discretion of the City Engineer of CITY. Any such application extension request by SUBDIVIDER shall fully state the grounds and facts relied upon for the granting of additional extensions.

In the event that SUBDIVIDER shall fail to complete the Work within the time provided by this Agreement, CITY may, in its sole discretion and in addition to any other remedy provided in this Agreement or by law, enter upon the Subdivision and complete the Work and recover the full cost and expense of such construction from SUBDIVIDER, SUBDIVIDER's successors and assigns, or from the then owner of the Subdivision, and/or place a lien upon the Subdivision for such cost and expense.

If at anytime prior to the expiration of the time provided by this Agreement the City Engineer of CITY determines that a safety hazard exists within an existing public right-of-

way, the City Engineer shall give written notice to SUBDIVIDER to eliminate the safety hazard. If SUBDIVIDER fails to eliminate the safety hazard within five (5) calendar days of the written notice, CITY may, in its sole discretion and in addition to any other remedy provided in this Agreement or by law, eliminate the safety hazard and recover the full cost and expense of such work from SUBDIVIDER, SUBDIVIDER's successors and assigns, or from the then owner of the Subdivision, and/or place a lien upon the Subdivision for such cost and expense.

3. Acquisition and Dedication of Easements or Rights-of-Ways. If any of the Work is to be constructed or installed on land not within the Subdivision or already existing public right-of-way, no construction or installation shall be commenced before:

a. The irrevocable offer of dedication or conveyance to CITY of appropriate right-of-ways, easements or other interest in real property, and appropriate authorization from the property owner to allow construction or installation of the improvements or work; or

b. The issuance of an order of possession by a court of competent jurisdiction pursuant to the State Eminent Domain Law. SUBDIVIDER shall comply in all respects with any such order of possession.

Nothing in this Section 3 shall be construed as authorizing or granting an extension of time to SUBDIVIDER for completion of the Work.

4. Inspection Fees and Costs. The City Engineer shall inspect all of the Work improvements made in the Subdivision to see that they comply with CITY's subdivision regulations and specifications. SUBDIVIDER shall deposit the estimated inspection fee and reimburse CITY for the cost of such inspections in accordance with Roseville Municipal Code section 18.20.070.

5. Securities.

a. SUBDIVIDER shall file with this Agreement two (2) improvement securities as set forth in Roseville Municipal Code Sections 18.20.150 and 18.20.160. Each security shall be in the amount of one hundred percent (100%) of the total estimated cost of the Work as determined by the City Engineer which amount is the sum of $ 1,496,387.00 . One improvement security shall secure faithful performance of this Agreement as required by Section 66499.3(a) of the Government Code of the State of California (the "faithful performance" security). The second improvement security shall, as required by Section 66499.3(b) of the Government Code of the State of California, secure the obligations set forth in Title 15 (commencing with Section 3082) of Part 4 of Division 3 of the Civil Code of the State of California for payment to the contractor, his subcontractors and to persons renting equipment or furnishing labor or materials to them for the Work (the "payment security"). The improvement securities required under this paragraph shall also secure placement of monumentation and guarantee payment therefor as provided by California Government Code section 66496.

b. SUBDIVIDER shall also file with this Agreement a "guarantee and warranty security" in the amount of ten percent (10%) of the City Engineer's estimated cost of the Work as set forth in Section 18.20.170 of the Roseville Municipal Code to guarantee and warrant the Work for a period of one year following its completion and acceptance against any defective work or labor done, or defective materials furnished, as required by Section 66499(a)(5) of the Government Code of the State of California. The guarantee and warranty security shall be released upon SUBDIVIDER's request following expiration of the warranty period and subject to the reasonable determination of the City Engineer that SUBDIVIDER's warranty obligations have been satisfied.

c. Any bonds submitted as security pursuant to this section shall be executed by a surety company authorized to transact a surety business in the State of California. All required securities shall be in a form approved by the City Attorney of CITY.

6. Successors and Assigns – Covenant Running with the Land. This Agreement shall inure to the benefit of, and be binding upon, the successors and assigns of the respective parties. It shall be recorded in the Office of the Recorder of Placer County concurrently with the final map of the Subdivision, and shall constitute a covenant running with the land and an equitable servitude upon the real property within the Subdivision.

7. Acceptance of Improvements Upon Completion. Upon satisfactory completion of the Work, in accordance with this Agreement, CITY agrees to accept the Work and its improvements and the offers of dedication described in paragraph 1, subject to the provisions of paragraphs 1 and 10 of this Agreement.

8. Notice Regarding Construction. SUBDIVIDER shall notify the City Engineer of CITY in writing three (3) days prior to the commencement of construction of the Work.

9. Subdivider's Obligation to Warn Public During Construction. Until final acceptance of the Work, SUBDIVIDER shall give good and adequate warning to the public of each and every dangerous condition which may exist in the Work, and will take all reasonable actions to protect the public from any such dangerous condition.

10. Warranty.

a. SUBDIVIDER guarantees and warrants the public improvements which constitute the Work required by this Agreement, and agrees to remedy any defects in the improvements or the Work arising from faulty or defective materials or construction of said improvements or the Work occurring within twelve (12) months after their acceptance by CITY.

SUBDIVIDER agrees to permit inspection of all improvements in the Subdivision by the City Engineer of CITY for such period, and to reimburse CITY for the cost of such inspections.

b. If, within the warranty period, the Work or improvement or any part of the Work done, furnished, installed, or constructed fails to fulfill any of the requirements of this Agreement or the improvement plans and specifications, SUBDIVIDER shall, without delay or cost to CITY, repair, replace or reconstruct any defective or otherwise unsatisfactory part or parts of the Work. CITY may, at its sole option, perform such repair or replacement itself if SUBDIVIDER has failed to commence such repair within twenty (20) days after CITY has mailed written notice of default to SUBDIVIDER and to SUBDIVIDER'S Surety. In such event, SUBDIVIDER agrees to pay the cost of such repair and replacement by CITY and CITY may, at its option, recover such cost as a lien against the Subdivision should the cost exceed the inspection fee deposited pursuant to paragraph 4 of this Agreement.

Should CITY determine that the public safety requires repairs or replacements to be made before SUBDIVIDER can be notified, CITY may, in its sole discretion, make the necessary repairs or replacement or perform the necessary work. SUBDIVIDER shall pay to CITY the cost of such repairs and CITY may at its option recover such cost as a lien against the Subdivision.

11. Indemnification. To the fullest extent allowed by law, SUBDIVIDER shall defend, indemnify, and save and hold harmless 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 SUBDIVIDER '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.

SUBDIVIDER'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.

12. Insurance. SUBDIVIDER agrees to continuously maintain, in full force and effect, at a minimum the following policies of insurance during the term of this Agreement.

COVERAGE	LIMITS OF LIABILITY
General Liability	$2,000,000 per occurrence $4,000,000 aggregate Personal Injury: $2,000,000 per occurrence $4,000,000 aggregate
Automobile Liability	$1,000,000 combined single limit
Workers' Compensation	Statutory

a. Form. SUBDIVIDER 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.

b. Additional Insureds. SUBDIVIDER shall also provide a separate endorsement form or section of the policy showing CITY, its officers, agents, employees and volunteers as additional insureds for each type of coverage, except for Workers' Compensation, for ongoing and completed operations. Such insurance shall specifically cover the contractual

liability of SUBDIVIDER. The additional insured coverage under the SUBDIVIDER'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.

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

d. 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.

e. 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.

f. Waiver of Subrogation. SUBDIVIDER hereby agrees to waive subrogation which any insurer of SUBDIVIDER may acquire from SUBDIVIDER 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 worked performed by SUBDIVIDER, its employees, agents and subcontractors.

g. Liability/Remedies. Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve SUBDIVIDER 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.

13. Irrevocability of Security. The improvement securities furnished pursuant to paragraph 5 shall be irrevocable, shall not be limited as to time (except as to the one-year guarantee and warranty period specified in paragraph 10) and shall provide that they may be released, in whole or part, only upon the written approval of the City Engineer of CITY.

14. Attorney's Fees; Venue; Governing Law. Any action by any party to this Agreement, or any action concerning a security furnished pursuant to paragraph 5, shall be brought in the appropriate court of competent jurisdiction within the County of Placer, State of California, notwithstanding any other provision of law which may provide that such action may be brought in some other location. In the event it becomes necessary for either party to bring an action with respect to enforcement of the provisions of this Agreement, or the security therefor, the prevailing party in such action shall be awarded a reasonable attorney's fee, as may be

determined by the Court. This Agreement shall be governed by and construed in accordance with the laws of the State of California.

15. Release of Faithful Performance Security. Release of faithful performance security shall be in compliance with and pursuant to the procedures set forth in Government Code Section 66499.7. Upon the completion of all secured Work by SUBDIVIDER and written acceptance of that completed Work by CITY, and the furnishing of the warranty security as required by paragraph 5(b), the City Engineer shall authorize the release of the remaining faithful performance security.

16. Release of Payment Security. Thirty-five (35) days after a notice of completion is recorded with respect to the Work, the City Engineer of CITY may authorize the release of the payment security, in the event that no claims have been filed against said security. In the event that claims or actions are filed against the security, the City Engineer may release so much of such security as is in excess of the total of the claims made against it, plus a reasonable amount of costs and attorney's fees.

17. Automatic Termination Upon Completion and Sale of Residential Unit. This Agreement and any lien pursuant hereto shall automatically be terminated, without any further action by either party or need to record any additional document, with respect to any single-family residential lot within a parcel designated by the Specific Plan for residential use, upon completion of construction and issuance by the City of a final inspection for a dwelling unit upon such residential lot and conveyance of such improved residential lot to a bona-fide good faith purchaser thereof. In connection with its issuance of a final inspection for such improved lot, City shall confirm that: (i) all improvements which are required to serve the lot, as determined by City, have been accepted by City; (ii) the lot is included within the Maintenance CFD required

by Section 3.20 or other financing mechanism acceptable to the City, to the extent required hereby; and (iii) if and to the extent applicable to such lot, an affordable purchase or rental housing agreement has been recorded on the lot. Termination of this Agreement for any such residential lot as provided for in this section shall not in any way be construed to terminate or modify any assessment district or Mello-Roos Community Facilities District lien affecting such lot at the time of termination.

18. Failure of Performance. In addition to any other remedies provided in this Agreement or by law, in the event SUBDIVIDER fails to perform one or more of the covenants or conditions of this Agreement, CITY shall have recourse to the security given to guarantee the performance of such acts. CITY may do, or cause to be done, those acts required of SUBDIVIDER, and shall have recourse against so much of the security as is necessary to discharge the responsibility of SUBDIVIDER. In the event CITY seeks recourse against a security, CITY shall also have recourse against SUBDIVIDER for any and all amounts necessary to complete the obligations of SUBDIVIDER in the event the security is insufficient to pay such amounts. All administrative costs, including reasonable attorney's fees pursuant to Section 66499.4 of the Government Code, incurred by CITY, in addition to the costs of the improvements, shall be a proper charge against the security and SUBDIVIDER.

19. Integration. This Agreement is an integrated agreement. It supersedes all prior negotiations, representations, or agreements, either written or oral.

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

21. Notices. Any notices sent to the parties relating to this Agreement shall be sent by first class mail, postage prepaid or delivered to the following addresses:

Marc Stout, City Engineer
City of Roseville
311 Vernon Street
Roseville, CA 95678

Steve Porter, Director, Development
Anthem United Creekview Developments LP
3001 Douglas Blvd., Suite 200
Roseville, CA 95661

Either party may amend its address by giving written notice to the other.

22. 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.

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 SUBDIVIDER has caused this Agreement to be executed.

CITY OF ROSEVILLE, a municipal corporation,

BY: _____
DOMINICK CASEY
City Manager

ATTEST:

BY: _____
CARMEN AVALOS
City Clerk

Anthem United Creekview Developments Limited Partnership,
a Washington Limited Partnership

BY: _____
Print name: Brian Moore
Title: Vice President

and

BY: _____
Print name: Matt Gustus
Title: Vice President

(NOTARIZATION REQUIRED)

[L:\agreement\form agreements\subdivision agmt.docx; 2/14/2022]

APPROVED AS TO FORM:

BY:_____
MICHELLE SHEIDENBERGER
City Attorney

APPROVED AS TO SUFFICIENCY:

BY: _____
MARC STOUT
City Engineer

[L:\agreement\form agreements\subdivision agmt.docx; 2/14/2022]

CALIFORNIA ACKNOWLEDGMENT CIVIL CODE § 1189

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 }

On July 26, 2022 before me, Bonnie Kwan, Notary Public
Date *Here Insert Name and Title of the Officer*

personally appeared Brian Moore
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

BONNIE KWAN
Notary Public - California
Placer County
Commission # 2317317
My Comm. Expires Dec 27, 2023

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.

Signature _____
Signature of Notary Public

Place Notary Seal and/or Stamp Above

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____	Signer's Name: _____
☐ Corporate Officer – Title(s): _____	☐ Corporate Officer – Title(s): _____
☐ Partner – ☐ Limited ☐ General	☐ Partner – ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other: _____	☐ Other: _____
Signer is Representing: _____	Signer is Representing: _____

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CALIFORNIA ACKNOWLEDGMENT **CIVIL CODE § 1189**

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 }

On July 26, 2022 before me, Bonnie Kwan, Notary Public,
Date *Here Insert Name and Title of the Officer*

personally appeared Matt Gustus
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

BONNIE KWAN
Notary Public - California
Placer County
Commission # 2317317
My Comm. Expires Dec 27, 2023

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.

Signature _____
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☐ Other: _____	☐ Other: _____
Signer is Representing: _____	Signer is Representing: _____

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COUNCIL COMMUNICATION

CC #: 2247
File #: 0400-04-13-1 & 0400-07

Title:	Creekview Phase 3 - Village 22 - Final Map and Subdivision Agreement
Contact:	Kerry Andrews 916-774-5346 kandrews@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.15.

RECOMMENDATION TO COUNCIL

It is recommended that the City Council take the following actions:

1. Approve the final map on file with the City Clerk and accept on behalf of the public, the public utility easements, and accept, subject to improvement, Lots A, B, C and D and the rights of way offered thereon, and approve the abandonment of the easements listed thereon; and
2. Adopt the attached resolution approving the Subdivision Agreement and authorize the City Manager to execute the agreement on behalf of the City.

BACKGROUND

The Development Services, Engineering section, has reviewed the subject final map and found that it is in compliance with the Subdivision Map Act and the City's Subdivision Ordinance and all conditions of the tentative map have been met. This map will create 74 residential lots, 3 public landscape lots and 1 open space lot.

FISCAL IMPACT

There is no fiscal impact to the City's General Fund associated with this approval.

ENVIRONMENTAL REVIEW

Approval of the Creekview - Phase 3 Village 22 final map is an action that is subject to California Environmental Quality Act (CEQA). Project level CEQA compliance for the Creekview - Phase 3 Village 22 final map was accomplished with the preparation of the Creekview Specific Plan EIR (Adopted in April 2011) (SCH#2008032017) and the Addendum to the Creekview Specific Plan EIR approved by the City of Roseville on October 23, 2019. Because the Creekview - Phase 3 Village 22 final map is consistent with the project evaluated in the Creekview Specific Plan EIR and the Addendum, no new effects would be expected to occur and all applicable mitigation

measures from the Creekview Specific Plan EIR and the Addendum will be implemented. As such, no additional CEQA action is required at this time.

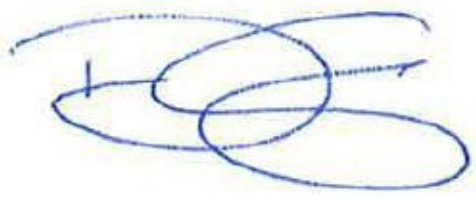
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Kerry Andrews, Assistant Engineer

Mike Isom, Development Services Director



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

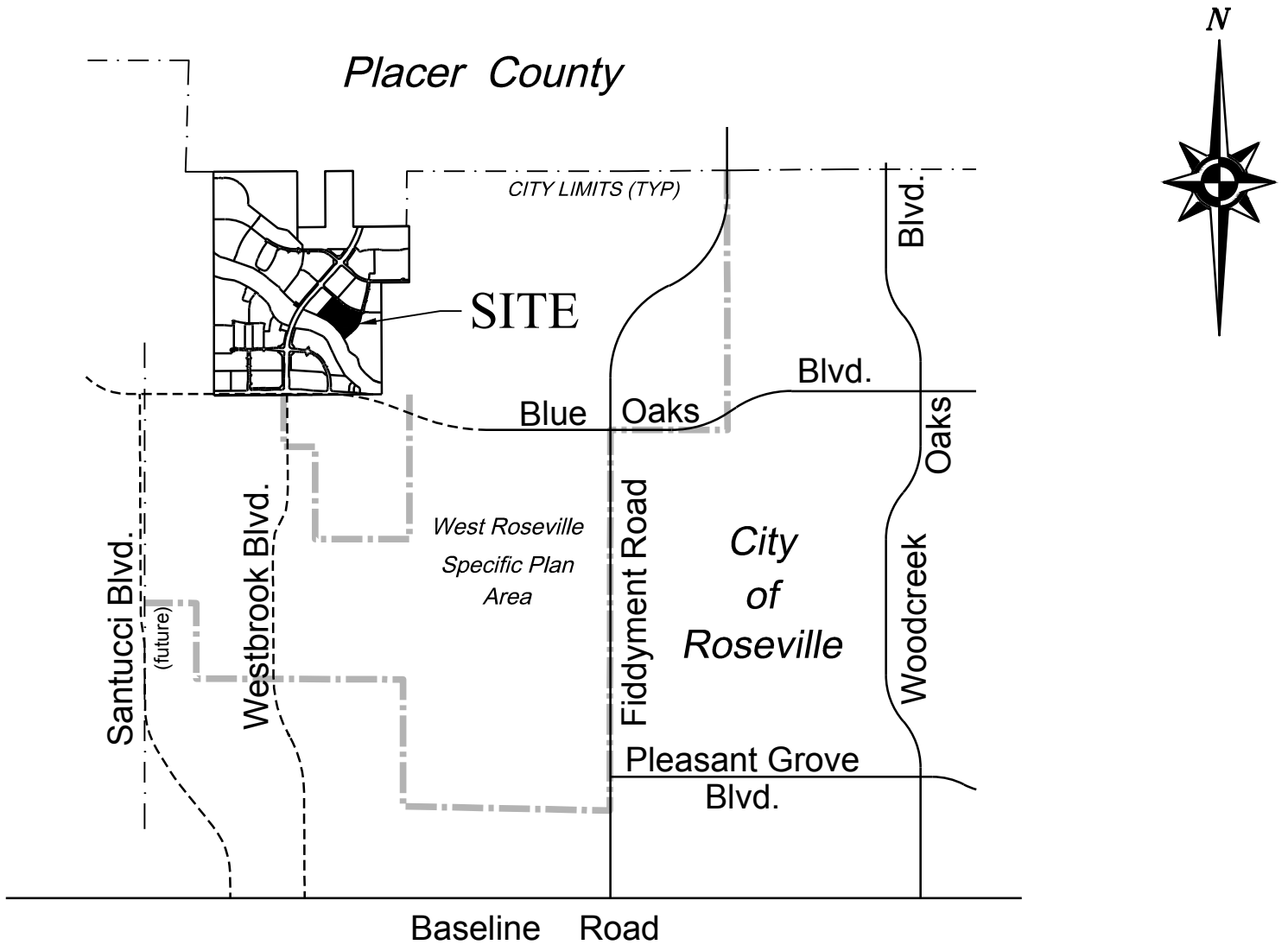
Vicinity Map

Final Map

Resolution 22-315

Subdivision Agreement

CREEKVIEW PHASE 3 VILLAGE 22



VICINITY MAP

BOOK_____ OF MAPS, PAGE_____

OWNER'S STATEMENT

THE UNDERSIGNED HEREBY CERTIFY THAT THEY ARE THE ONLY PERSONS HAVING ANY RECORD TITLE INTEREST IN THE REAL PROPERTY INCLUDED WITHIN THE SUBDIVISION SHOWN UPON THIS FINAL MAP OF "CREEKVIEW PHASE 3 VILLAGE 22" AND THEY HEREBY CONSENT TO THE PREPARATION AND RECORDATION OF THIS FINAL MAP AND HEREBY OFFER FOR DEDICATION AND DO HEREBY DEDICATE FOR SPECIFIC PURPOSES THE FOLLOWING:

THE REAL PROPERTY DESCRIBED BELOW IS DEDICATED AS EASEMENTS FOR PUBLIC PURPOSES:

(A) A PUBLIC EASEMENT FOR THE INSTALLATION AND MAINTENANCE OF, BUT NOT LIMITED TO ELECTROLIERS, WATER AND GAS PIPES, SEWER AND DRAINAGE PIPES, AND FOR UNDERGROUND WIRE AND CONDUITS FOR ELECTRIC, TELEPHONE AND TELEVISION SERVICES AND TRAFFIC CONTROL APPURTENANCES TOGETHER WITH ANY AND ALL APPURTENANCES PERTAINING THERETO ON, OVER, UNDER AND ACROSS LOTS A, B, C AND D, THE STREETS SHOWN HEREON AS CREEKVIEW DRIVE, FRISBEE DRIVE, WOODLANDS LOOP, FRISBEE PLACE, RAVENROCK PLACE, TRAIN WHISTLE PLACE, BLACK WALNUT WAY AND RAVENROCK WAY AND THOSE STRIPS OF LAND LYING CONTIGUOUS TO THE RIGHTS-OF-WAY AS SHOWN HEREON AND DESIGNATED "PUE" (PUBLIC UTILITY EASEMENT).

THE REAL PROPERTY DESCRIBED BELOW IS DEDICATED IN FEE FOR PUBLIC PURPOSES:

(A) AS PUBLIC RIGHTS-OF-WAY (INCLUDING ALL IMPROVEMENTS THEREON) THE STREETS SHOWN HEREON AS CREEKVIEW DRIVE, FRISBEE DRIVE, WOODLANDS LOOP, FRISBEE PLACE, RAVENROCK PLACE, TRAIN WHISTLE PLACE, BLACK WALNUT WAY AND RAVENROCK WAY.

(B) LOTS A, B, AND C AS SHOWN HEREON TO THE CITY OF ROSEVILLE FOR LANDSCAPING AND AS PUBLIC RIGHTS-OF-WAY.

(C) LOT D AS SHOWN HEREON TO THE CITY OF ROSEVILLE FOR PUBLIC OPEN SPACE PURPOSES.

ANTHEM UNITED CREEKVIEW DEVELOPMENTS LIMITED PARTNERSHIP,
A WASHINGTON LIMITED PARTNERSHIP

BY: _____

_____

NOTARY'S ACKNOWLEDGMENT

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 _____

ON_____ BEFORE ME,_____, A NOTARY PUBLIC

PERSONALLY APPEARED _____
WHO PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE TO BE THE PERSON(S) WHOSE NAME(S) IS/ARE SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE/SHE/THEY EXECUTED THE SAME IN HIS/HER/THEIR AUTHORIZED CAPACITY(IES), AND THAT BY HIS/HER/THEIR SIGNATURE(S) ON THE INSTRUMENT THE PERSON(S), OR THE ENTITY UPON BEHALF OF WHICH THE PERSON(S) 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.

_____
SIGNATURE PRINTED NAME

MY PRINCIPAL PLACE OF BUSINESS IS _____COUNTY

MY COMMISSION EXPIRES: _____ MY COMMISSION NUMBER: _____

TRUSTEE'S STATEMENT

FIRST AMERICAN TITLE INSURANCE COMPANY, A NEBRASKA CORPORATION, AS TRUSTEE UNDER THAT CERTAIN CONSTRUCTION DEED OF TRUST AND SECURITY AGREEMENT RECORDED ON MAY 24, 2019, AS INSTRUMENT NO. 2019-0034783, ORPC AND MODIFIED BY INSTRUMENT NO. 2021-0043312 AND INSTRUMENT NO. 2022-0044720, ORPC, HEREBY CONSENTS TO THE RECORDING OF THIS MAP AND THE SUBDIVISION OF THE LANDS SHOWN HEREON.

BY: _____

_____

_____

NOTARY'S ACKNOWLEDGMENT

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 _____

ON_____ BEFORE ME,_____, A NOTARY PUBLIC

PERSONALLY APPEARED _____
WHO PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE TO BE THE PERSON(S) WHOSE NAME(S) IS/ARE SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE/SHE/THEY EXECUTED THE SAME IN HIS/HER/THEIR AUTHORIZED CAPACITY(IES), AND THAT BY HIS/HER/THEIR SIGNATURE(S) ON THE INSTRUMENT THE PERSON(S), OR THE ENTITY UPON BEHALF OF WHICH THE PERSON(S) 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.

_____
SIGNATURE PRINTED NAME

MY PRINCIPAL PLACE OF BUSINESS IS _____COUNTY

MY COMMISSION EXPIRES: _____ MY COMMISSION NUMBER: _____

SURVEYOR'S STATEMENT

THIS MAP OF "CREEKVIEW PHASE 3 VILLAGE 22" WAS PREPARED BY ME OR UNDER MY DIRECTION AND IS BASED UPON A FIELD SURVEY IN CONFORMANCE WITH THE REQUIREMENTS OF THE SUBDIVISION MAP ACT AND LOCAL ORDINANCE AT THE REQUEST OF ANTHEM UNITED CREEKVIEW DEVELOPMENTS LIMITED PARTNERSHIP, IN JANUARY, 2019, I HEREBY STATE THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN, THAT ALL THE MONUMENTS ARE OF THE CHARACTER AND OCCUPY THE POSITIONS INDICATED OR THAT THEY WILL BE SET IN THOSE POSITIONS BEFORE DECEMBER 31, 2024, AND THAT THE MONUMENTS ARE, OR WILL BE, SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, AND THAT THIS FINAL MAP SUBSTANTIALLY CONFORMS TO THE CONDITIONALLY APPROVED TENTATIVE MAP.

MACKAY & SOMPS CIVIL ENGINEERS, INC.

BY: _____
PAUL FERGUSON, JR., PLS 9265
EXPIRATION DATE: MARCH 31, 2024

DATE: _____

LICENSED LAND SURVEYOR
PAUL FERGUSON, JR.
No. 9265
STATE OF CALIFORNIA

CITY ENGINEER'S STATEMENT

I HEREBY STATE THAT I HAVE EXAMINED THIS FINAL MAP OF "CREEKVIEW PHASE 3 VILLAGE 22" AND FIND IT TO BE SUBSTANTIALLY THE SAME AS THE TENTATIVE MAP ON FILE AND ANY APPROVED ALTERATIONS THEREOF; THAT ALL PROVISIONS OF THE SUBDIVISION MAP ACT AND ALL APPLICABLE CITY ORDINANCES HAVE BEEN COMPLIED WITH.

_____ DATE: _____
MARC STOUT, R.C.E. 69879
CITY ENGINEER, CITY OF ROSEVILLE
LICENSE EXPIRES: SEPTEMBER 30, 2022

I HEREBY STATE THAT I AM SATISFIED THIS FINAL MAP OF "CREEKVIEW PHASE 3 VILLAGE 22" IS TECHNICALLY CORRECT.

FOR MARC STOUT, CITY ENGINEER, CITY OF ROSEVILLE

_____ DATE: _____
TIMOTHY G. BLAIR, PLS 8278
EXPIRES DECEMBER 31, 2023

LICENSED LAND SURVEYOR
TIMOTHY G BLAIR
Exp. 12-31-23
No. 8278
STATE OF CALIFORNIA

CITY CLERK'S STATEMENT

I HEREBY CERTIFY THAT THE CITY COUNCIL, CITY OF ROSEVILLE, HAS APPROVED THIS FINAL MAP OF "CREEKVIEW PHASE 3 VILLAGE 22", AND HAS ACCEPTED ON BEHALF OF THE PUBLIC, THE PUBLIC UTILITY EASEMENTS OFFERED HEREON FOR DEDICATION AND HAS ACCEPTED, SUBJECT TO IMPROVEMENT, LOTS A, B, C AND D AND THE RIGHTS-OF-WAY OFFERED HEREON FOR DEDICATION, AND HEREBY APPROVES THE ABANDONMENT OF THE EASEMENTS LISTED WITHIN NOTE 5 ON SHEET 2.

_____
CITY CLERK, CITY OF ROSEVILLE

DATE: _____ BY: _____
ASSISTANT CITY CLERK

RECORDER'S STATEMENT

FILED THIS _____ DAY OF _____, 2022, AT _____.M. IN BOOK _____ OF MAPS, AT PAGE _____, IN THE OFFICE OF THE PLACER COUNTY RECORDER, AT THE REQUEST OF MACKAY & SOMPS CIVIL ENGINEERS, INC.

_____ DOCUMENT NO.: _____
RECORDER OF PLACER COUNTY
STATE OF CALIFORNIA

BY:_____ FEE: $ _____
DEPUTY

FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 22

SUBDIVISION NO. PL20-0201

ALL OF LOT 10 AS SHOWN ON THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

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MACKAY & SOMPS
ENGINEERS PLANNERS SURVEYORS
1025 Creekside Ridge Drive, Suite 150, Roseville, CA 95678 (916) 773-1189

AUGUST 2022

 18431.CV.PH3.V22

NOTES

1. ALL CURVES ARE DIMENSIONED WITH RADIUS, DELTA, ARC LENGTH, CHORD BEARING AND CHORD LENGTH. DISTANCES SHOWN HEREON ARE IN FEET AND DECIMALS THEREOF AND ARE "GROUND" DISTANCES. DUE TO ROUNDING, THE SUM OF INDIVIDUAL DIMENSIONS MAY NOT EQUAL THE OVERALL DIMENSION.

2. TOTAL AREA FOR THIS SUBDIVISION IS 11.290± ACRES, CONSISTING OF 74 RESIDENTIAL LOTS, 3 LANDSCAPE LOTS AND 1 OPEN SPACE LOT.

3. ALL FRONT LOT CORNERS WILL BE SET WITH A 1" DIAMETER DISC STAMPED "LS 9265" IN THE ATTACHED SIDEWALK ON A 1-FOOT EXTENSION OF THE SIDE LOT LINE UNLESS SHOWN OTHERWISE.

4. ALL REAR LOT CORNERS AND ANGLE POINTS WILL BE SET WITH A 5/8" REBAR AND PLASTIC CAP STAMPED "LS 9265. WHERE MONUMENTS FALL WITHIN A SOUND WALL OR CONCRETE FOOTING A 5/8" REBAR, WITH PLASTIC CAP STAMPED "LS 9265" WILL BE SET ON THE SIDE LOT LINE ON A 4.00 OFFSET TO THE REAR LOT CORNER OR A 3/4" TAG STAMPED "LS 9265" WILL BE SET WITH EPOXY TO THE FACE OF WALL 2.00 FOOT ABOVE GROUND OR ON TOP OF WALL WHERE AN OFFSET MONUMENT CANNOT BE SET.

5. PURSUANT TO GOVERNMENT CODE SECTION 66434(G), THE FOLLOWING IRREVOCABLE OFFER OF DEDICATION, NOT SHOWN HEREON, IS HEREBY ABANDONED:

   a. 12.5' P.U.E. ALONG THE SOUTHERLY RIGHT-OF-WAY OF CELEBRATE DRIVE, WITHIN LOT 10 AS SHOWN ON THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION", FILED FOR RECORD ON DECEMBER 2, 2021 IN BOOK FF OF MAPS , AT PAGE 84, PLACER COUNTY RECORDS.

6. A PRELIMINARY SOILS REPORT WAS PREPARED BY GEOCON CONSULTANTS, INC. DATED AUGUST, 2014; PROJECT NO. S9578-05-05 AND ON FILE WITH THE CITY OF ROSEVILLE DEVELOPMENT SERVICES - ENGINEERING DEPARTMENT, FILE NO. 308-885.

LEGEND:

◉	COPPERWELD SURVEY MONUMENT WITH CENTER PUNCH IN MONUMENT WELL STAMPED "LS 9265" TO BE SET PER (1)
⊙	5/8" REBAR WITH PLASTIC CAP STAMPED "LS 9265" TO BE SET PER (2)
●	5/8" REBAR WITH PLASTIC CAP STAMPED "LS 9265" TO BE SET PER (1)
◎	SET COPPERWELD SURVEY MONUMENT WITH CENTER PUNCH IN MONUMENT WELL STAMPED "LS 9265"
○	SET 5/8" REBAR WITH PLASTIC CAP STAMPED "LS 9265"
⌧	SET 1" DIAMETER DISC STAMPED "LS 9265" ON TOP OF THE 8" BARRIER CURB ON A 0.30-FOOT EXTENSION OF THE SIDE LOT LINE.
○	DIMENSION POINT
BPE	BIKE PATH EASEMENT
CB	CHORD BEARING
CD	CHORD DISTANCE
(OA)	OVERALL
PAE	PEDESTRAIN ACCESS EASEMENT
PUE	PUBLIC UTILITY EASEMENT
(R)	RADIAL BEARING
SF	SQUARE FEET
Ⓧ	SHEET INDEX NUMBER
———	BOUNDARY
———	LOT LINE
- - - - - -	ADJACENT PROPERTY
———	RIGHT-OF-WAY
— — — —	EASEMENT
—— - ——	CENTER LINE

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS MAP IS NORTH 48°50'37" WEST AS SHOWN AS THE CENTERLINE, CELEBRATE DRIVE PER THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION" FILED FOR RECORD ON DECEMBER 2, 2021 IN BOOK FF OF MAPS, AT PAGE 84, PLACER COUNTY RECORDS.

REFERENCES:

(1) FF MAPS 84
(2) EE MAPS 97

FINAL MAP OF

CREEKVIEW PHASE 3
VILLAGE 22

SUBDIVISION NO. PL20-0201

ALL OF LOT 10 AS SHOWN ON THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

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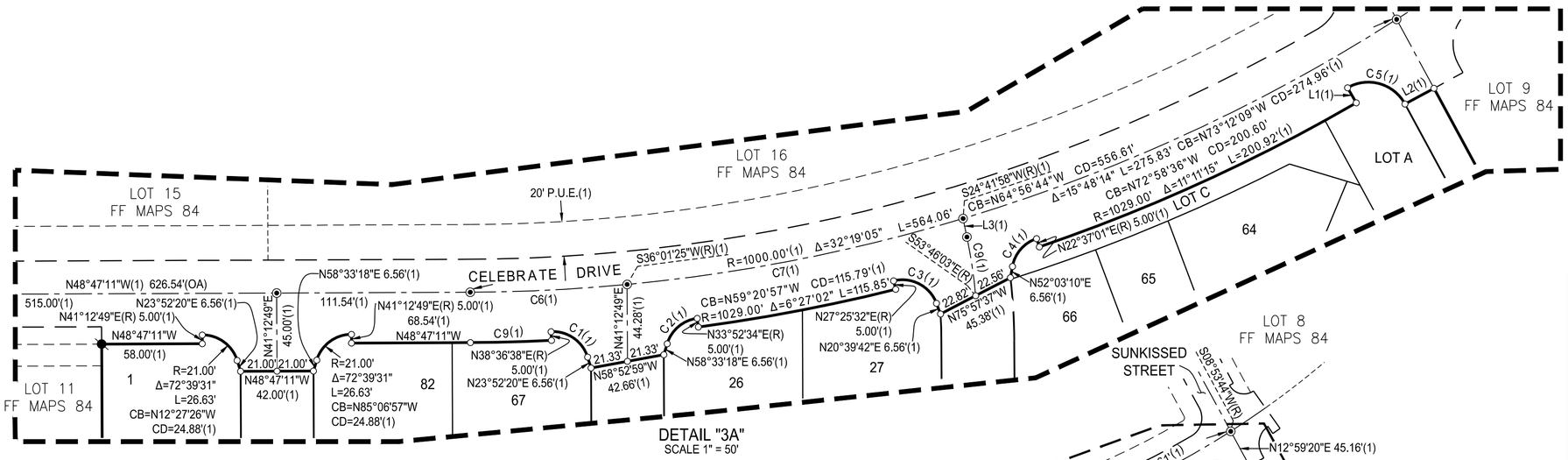
1025 Creekside Ridge Drive, Suite 150, Roseville, CA 95678 (916) 773-1189

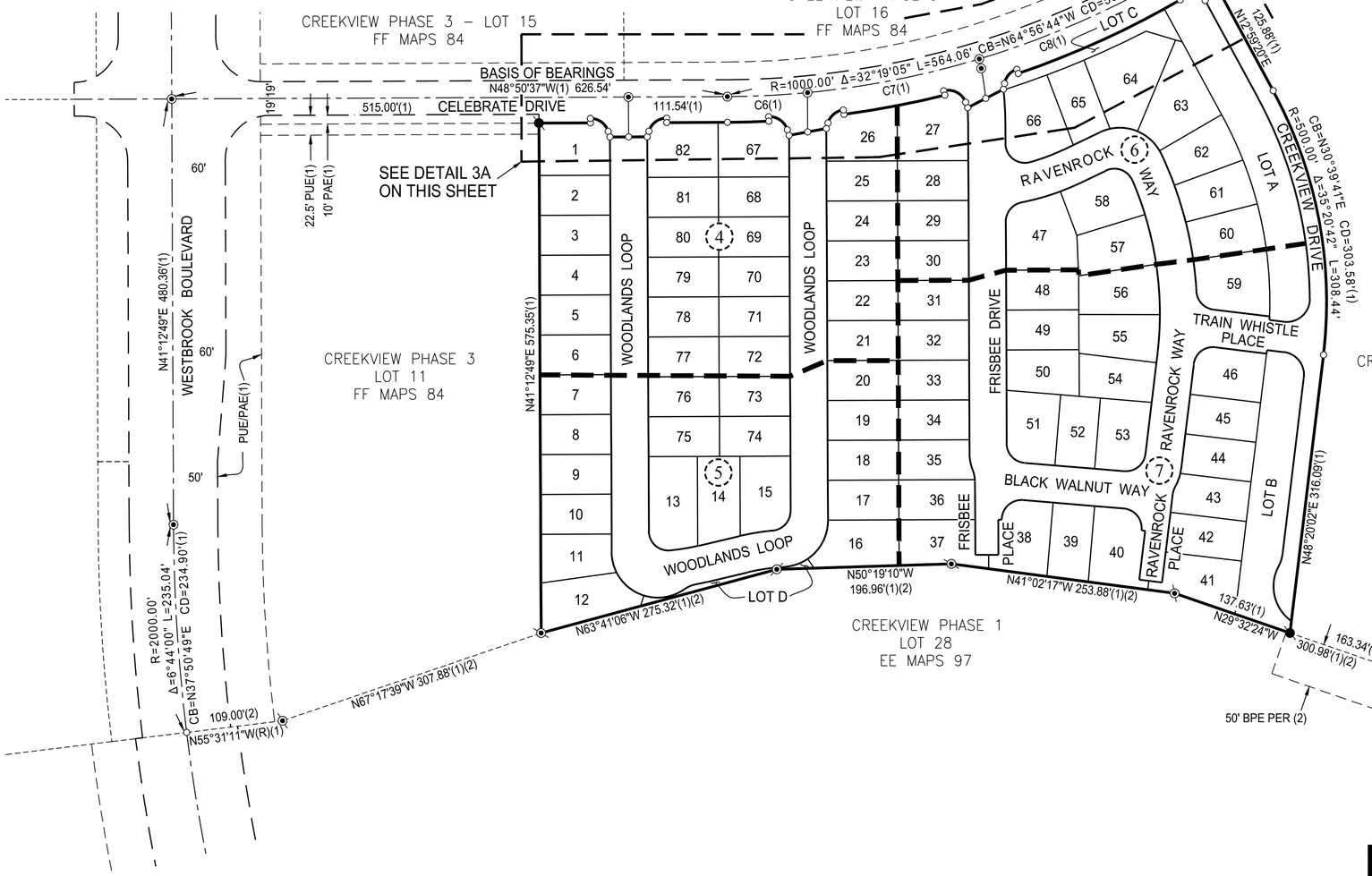
AUGUST 2022

 18431.CV.PH3.V22

Line Table		
Line #	Bearing	Length
L1 (R)	N11°25'47"E	10.00'
L2 (R)	N77°00'40"W	19.00'
L3	N29°41'58"E	10.87'

Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	21.00'	75°15'41"	27.58'	N13° 45' 31"W	25.64'
C2	21.00'	65°19'16"	23.94'	N88° 47' 04"W	22.67'
C3	21.00'	83°14'10"	30.51'	N20° 57' 23"W	27.89'
C4	21.00'	60°33'51"	22.20'	N82° 20' 06"E	21.18'
C5	24.00'	91°33'34"	38.35'	N32° 47' 27"W	34.40'
C6	1000.00'	5°11'24"	90.58'	N51° 22' 53"W	90.55'
C7	1000.00'	11°19'27"	197.64'	N59° 38' 19"W	197.32'
C8	1000.00'	15°48'14"	275.83'	N73° 12' 09"W	274.96'
C9	1029.00'	2°36'11"	46.75'	N50° 05' 16"W	46.74'





FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 22

SUBDIVISION NO. PL20-0201

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AUGUST 2022

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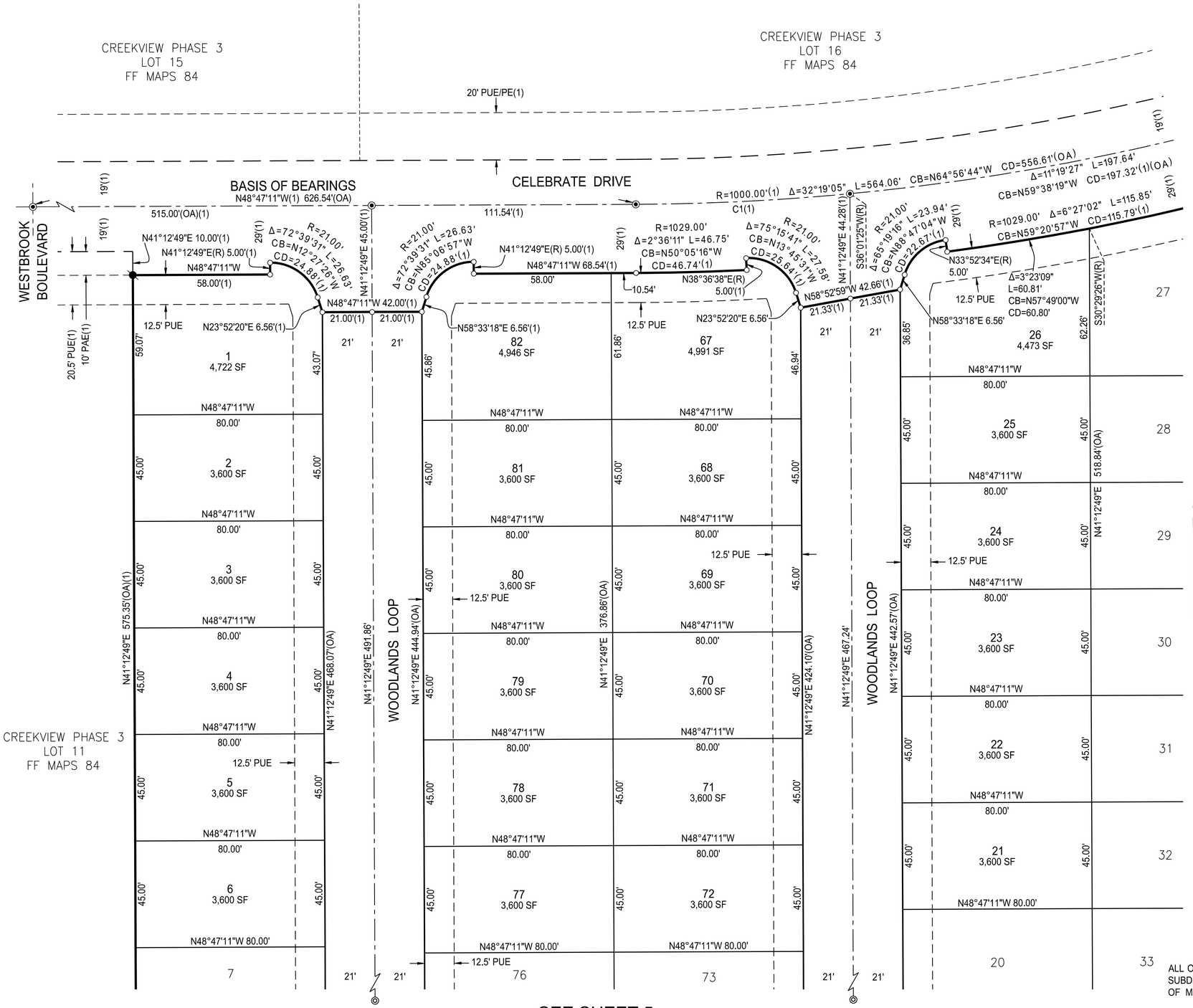
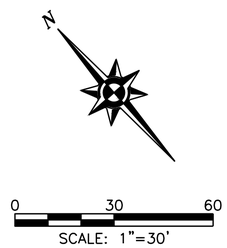
SEE SHEET 2 FOR NOTES, REFERENCES, BASIS OF BEARINGS AND LEGEND



Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	1000.00'	5°11'24"	90.58'	N51° 22' 53"W	90.55'



FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 22

SUBDIVISION NO. PL20-0201

ALL OF LOT 10 AS SHOWN ON THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

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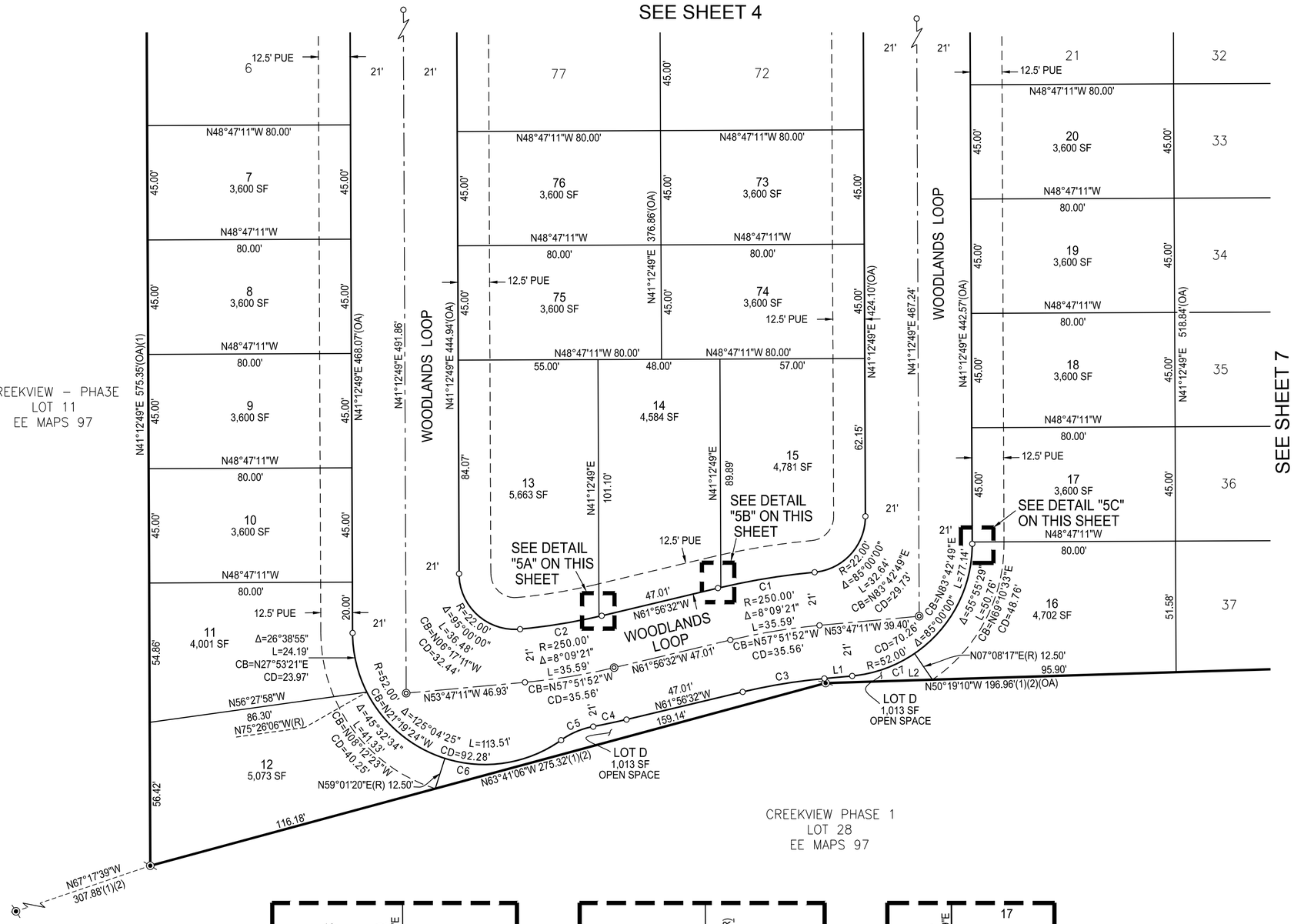
AUGUST 2022

 18431.CV.PH3.V22

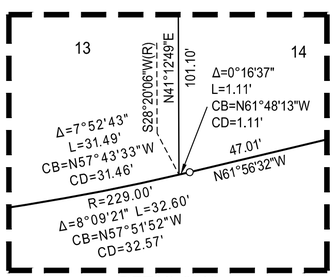
SEE SHEET 2 FOR NOTES, SEE SHEET 3 FOR REFERENCES, BASIS OF BEARINGS AND LEGEND

BOOK_____OF MAPS, PAGE_____

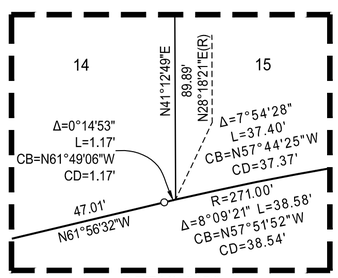


Line Table		
Line #	Bearing	Length
L1	N53°47'11"W	11.00'
L2	N50°19'10"W	42.09'

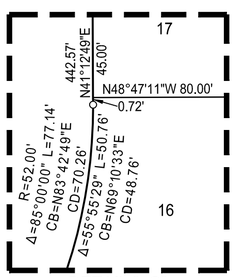
Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	271.00'	8°09'21"	38.58'	N57° 51' 52"W	38.54'
C2	229.00'	8°09'21"	32.60'	N57° 51' 52"W	32.57'
C3	229.00'	8°09'21"	32.60'	N57° 51' 52"W	32.57'
C4	271.00'	2°49'49"	13.39'	N60° 31' 38"W	13.38'
C5	32.00'	24°44'53"	13.82'	N71° 29' 10"W	13.71'
C6	52.00'	52°52'56"	47.99'	N57° 25' 08"W	46.31'
C7	52.00'	29°04'31"	26.39'	N68° 19' 27"W	26.11'



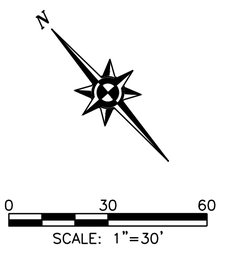
DETAIL "5A"
SCALE 1"=10'



DETAIL "5B"
SCALE 1"=10'



DETAIL "5C"
SCALE 1"=10'



FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 22

SUBDIVISION NO. PL20-0201

ALL OF LOT 10 AS SHOWN ON THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

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MACKAY & SOMPS
ENGINEERS PLANNERS SURVEYORS
1025 Creekside Ridge Drive, Suite 150, Roseville, CA 95678 (916) 773-1189

AUGUST 2022

 18431.CV.PH3.V22

SEE SHEET 2 FOR NOTES, REFERENCES, BASIS OF BEARINGS AND LEGEND

BOOK_____OF MAPS, PAGE_____

FINAL MAP OF

CREEKVIEW PHASE 3
VILLAGE 22

SUBDIVISION NO. PL20-0201

ALL OF LOT 10 AS SHOWN ON THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

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AUGUST 2022

SHEET 6 OF 8 18431.CV.PH3.V22

SCALE: 1"=30'

Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	21.00'	83°14'10"	30.51'	N20° 57' 23"W	27.89'
C2	21.00'	60°33'51"	22.20'	N82° 20' 06"E	21.18'
C3	52.00'	4°58'20"	4.51'	N13° 41' 27"E	4.51'
C4	52.00'	13°20'48"	12.11'	N67° 29' 32"W	12.09'
C5	321.00'	6°30'08"	36.43'	N37° 57' 45"E	36.41'
C6	300.00'	4°58'52"	26.08'	N38° 43' 23"E	26.07'
C7	279.00'	3°12'37"	15.63'	N39° 36' 30"E	15.63'
C8	321.00'	0°09'41"	0.90'	N34° 47' 31"E	0.90'
C9	52.00'	90°20'33"	81.99'	N28° 59' 40"W	73.76'
C10	321.00'	6°20'27"	35.52'	N38° 02' 35"E	35.51'

Line Table		
Line #	Bearing	Length
L1	N52°03'10"E	6.56'

DETAIL "6A"
SCALE 1"=10'

SEE DETAIL "6A" ON THIS SHEET

SEE SHEET 4

SEE SHEET 7

SEE SHEET 2 FOR NOTES, REFERENCES, BASIS OF BEARINGS AND LEGEND

BOOK____ OF MAPS, PAGE____

SEE SHEET 2 FOR NOTES, REFERENCES, BASIS OF BEARINGS AND LEGEND

Curve Table					
Curve #	Radius	Delta	Length	Chord Bearing	Chord Length
C1	32.00'	21°47'12"	12.17'	N30° 19' 13"E	12.09'
C2	32.00'	18°47'16"	10.49'	N28° 49' 15"E	10.45'
C3	52.00'	21°47'12"	19.77'	N59° 13' 39"E	19.65'
C4	400.00'	5°10'52"	36.17'	N45° 44' 37"E	36.16'
C5	500.00'	1°40'43"	14.65'	N47° 29' 41"E	14.65'
C6	436.00'	0°31'38"	4.01'	N43° 53' 40"E	4.01'
C7	421.00'	21°52'35"	160.74'	N27° 06' 54"E	159.77'
C7	52.00'	15°56'22"	14.47'	N62° 09' 04"E	14.42'

FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 22

SUBDIVISION NO. PL20-0201

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AUGUST 2022

SHEET 7 OF 8 18431.CV.PH3.V22

SEE SHEET 4
SEE SHEET 5
SEE SHEET 6

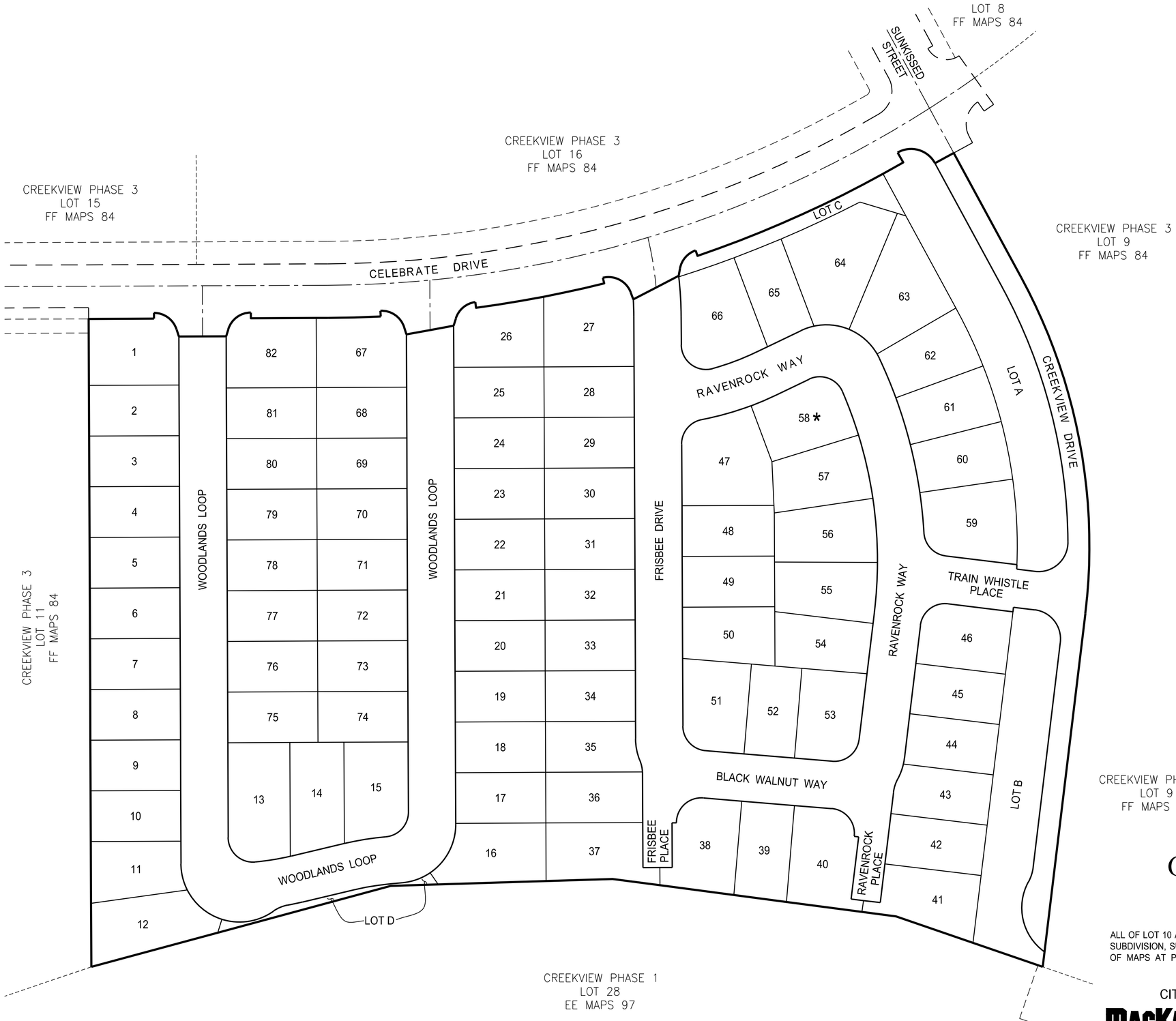
RAVENROCK WAY
FRISBEE DRIVE
BLACK WALNUT WAY
TRAIN WHISTLE PLACE
CREEKVIEW DRIVE
RAVENROCK PLACE

CREEKVIEW PHASE 3
LOT 9
FF MAPS 84

CREEKVIEW PHASE 1
LOT 28
EE MAPS 97

SHEET 7 OF 8

BOOK_____OF MAPS, PAGE_____



ADDITIONAL INFORMATION FOR INFORMATIONAL PURPOSES ONLY PURSUANT TO SECTION 66434.2 OF THE GOVERNMENT CODE

EACH RESIDENTIAL DWELLING CONSTRUCTED ON ANY OF THE LOTS INDICATED SHALL BE FITTED WITH A SEWER BACKFLOW PREVENTER VALVE AS APPROVED BY THE CITY OF ROSEVILLLE. IT SHALL BE THE RESPONSIBILITY OF THE OWNER OF SAID DWELLING TO MAINTAIN THE VALVE AND PREVENT DAMAGE FROM OCCURRING THERETO. THE CITY OF ROSEVILLE SHALL NOT BE RESPONSIBLE FOR THE MAINTENANCE OR PERFORMANCE OF THE VALVE, AND THE CITY OF ROSEVILLE SHALL NOT BE LIABLE FOR ANY DAMAGE OCCURRING TO ANY SUCH DWELLING OR ITS CONTENTS DUE TO FAILURE OF THE VALVE FOR ANY REASON WHATSOEVER.

LEGEND

* DENOTES SEWER BACKFLOW PREVENTER VALVE REQUIRED ON SANITARY SEWER CONNECTION BY THE CITY OF ROSEVILLE WITH THE BUILDING PERMIT AND MAINTAINED THEREAFTER BY THE OWNER.

N

0 30 60 120

SCALE: 1"=60'

CREEKVIEW PHASE 3
LOT 9
FF MAPS 84

FINAL MAP OF

CREEKVIEW PHASE 3 VILLAGE 22

SUBDIVISION NO. PL20-0201

ALL OF LOT 10 AS SHOWN ON THAT CERTAIN FINAL MAP TITLED "CREEKVIEW - PHASE 3 LARGE LOT SUBDIVISION, SUBDIVISION NO. PL20-0201", FILED FOR RECORD ON DECEMBER 2, 2021, IN BOOK FF OF MAPS AT PAGE 84, PLACER COUNTY RECORDS, WITHIN SECTION 14, TOWNSHIP 11 NORTH, RANGE 5 EAST, MOUNT DIABLO MERIDIAN

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AUGUST 2022

SHEET 8 OF 8 18431.CV.PH3.V22

SEE SHEET 2 FOR NOTES, REFERENCES, BASIS OF BEARINGS AND LEGEND

RESOLUTION NO. 22-315

APPROVING A SUBDIVISION AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND ANTHEM UNITED CREEKVIEW DEVELOPMENTS LIMITED PARTNERSHIP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a subdivision agreement, by and between the City of Roseville and Anthem United Creekview Developments Limited Partnership, for the Creekview Phase 3 – Village 22 Subdivision, has been reviewed by the City 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.

PASSED AND ADOPTED by the Council of the City of Roseville this____day of _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

RECORDING REQUESTED BY AND WHEN RECORDED, PLEASE RETURN TO:

City Clerk
CITY OF ROSEVILLE
311 Vernon Street
Roseville, CA 95678

Exempt from recording fees
Pursuant to Govt. Code §27383

SUBDIVISION AGREEMENT

Creekview Phase 3 - Village 22 SUBDIVISION

THIS AGREEMENT, made and entered into this ___ day of _____, 20__, by and between the CITY OF ROSEVILLE, a municipal corporation ("CITY"), and Anthem United Creekview Developments Limited Partnership, a Washington Limited Partnership, ("SUBDIVIDER"),

W I T N E S S E T H:

WHEREAS, SUBDIVIDER is possessed of a tract of land lying in the City of Roseville, County of Placer, known as "Creekview Phase 3 Village 22 Subdivision" (Subdivision no. PL20-0201; "the Subdivision"); and

WHEREAS, a tentative map of the Subdivision was approved by the City Planning Commission on the 22nd day of July, 2021, and the final map of the Subdivision has been approved subject to the execution of this Agreement; and

WHEREAS, the final map has been filed on the ____ day of _____, 20__ in Book _____ of Parcel/Subdivision Maps at Page _____ in the Official Records, Placer County Recorder, file no. _____; and

WHEREAS, Section 18.20.110 of the Roseville Municipal Code, regulating the subdivision of land in the City, requires that SUBDIVIDER shall execute and file an agreement between itself and CITY relating to the improvements to be made in a subdivision, prior to the approval by the City Council of the final map.

NOW, THEREFORE, the parties agree as follows:

1. Rights-of-Way. Except as otherwise provided by this Agreement, CITY rejects all lands, right-of-ways, and easements offered for dedication on the final map of the Subdivision. All such offers shall, however, remain open, and shall constitute irrevocable offers of dedication in accordance with Government Code Section 66477.2. All such offers may be accepted by CITY in its sole discretion at any later date without further notice to SUBDIVIDER as provided by law.

By way of explanation only, it is the current intention of CITY to accept all or part of such irrevocable offers to dedicate upon acceptance of the improvements called for in this Agreement.

2. Improvements - Time Limit. SUBDIVIDER agrees to cause all improvements to be made and constructed in the Subdivision to fully comply with the requirements of the Roseville Municipal Code and the Subdivision Map Act of the State of California according to the improvement plans for the Subdivision prepared by MacKay and Somps Civil Engineers, Inc., dated April, 8, 2022 and approved by the City Engineer and including any changes or

alterations to such improvements required by the City Engineer, and to install, on or before October 31, 2023, such survey monuments as may be required by the City Engineer ("the Work"). SUBDIVIDER agrees to pay for any materials, provisions or other supplies used in, upon, for or about the performance of the Work, or for any work or labor of any kind done in connection with the Work, or for any amounts due under the Unemployment Insurance Act with respect to such work or labor.

SUBDIVIDER agrees to complete all of the Work on or before twenty-four (24) months from the date of this Agreement. If in the opinion of the City Engineer of CITY, an extension of this Agreement is not detrimental to the public welfare, he or she is, in his or her sole discretion, hereby authorized to extend the time within which the Work shall be completed for a period not to exceed twelve (12) months. Upon a written application made by SUBDIVIDER, further extensions, not to exceed an additional six (6) months, shall be reviewed and approved at the discretion of the City Engineer of CITY. Any such application extension request by SUBDIVIDER shall fully state the grounds and facts relied upon for the granting of additional extensions.

In the event that SUBDIVIDER shall fail to complete the Work within the time provided by this Agreement, CITY may, in its sole discretion and in addition to any other remedy provided in this Agreement or by law, enter upon the Subdivision and complete the Work and recover the full cost and expense of such construction from SUBDIVIDER, SUBDIVIDER's successors and assigns, or from the then owner of the Subdivision, and/or place a lien upon the Subdivision for such cost and expense.

If at anytime prior to the expiration of the time provided by this Agreement the City Engineer of CITY determines that a safety hazard exists within an existing public right-of-

way, the City Engineer shall give written notice to SUBDIVIDER to eliminate the safety hazard. If SUBDIVIDER fails to eliminate the safety hazard within five (5) calendar days of the written notice, CITY may, in its sole discretion and in addition to any other remedy provided in this Agreement or by law, eliminate the safety hazard and recover the full cost and expense of such work from SUBDIVIDER, SUBDIVIDER's successors and assigns, or from the then owner of the Subdivision, and/or place a lien upon the Subdivision for such cost and expense.

3. Acquisition and Dedication of Easements or Rights-of-Ways. If any of the Work is to be constructed or installed on land not within the Subdivision or already existing public right-of-way, no construction or installation shall be commenced before:

a. The irrevocable offer of dedication or conveyance to CITY of appropriate right-of-ways, easements or other interest in real property, and appropriate authorization from the property owner to allow construction or installation of the improvements or work; or

b. The issuance of an order of possession by a court of competent jurisdiction pursuant to the State Eminent Domain Law. SUBDIVIDER shall comply in all respects with any such order of possession.

Nothing in this Section 3 shall be construed as authorizing or granting an extension of time to SUBDIVIDER for completion of the Work.

4. Inspection Fees and Costs. The City Engineer shall inspect all of the Work improvements made in the Subdivision to see that they comply with CITY's subdivision regulations and specifications. SUBDIVIDER shall deposit the estimated inspection fee and reimburse CITY for the cost of such inspections in accordance with Roseville Municipal Code section 18.20.070.

5. Securities.

a. SUBDIVIDER shall file with this Agreement two (2) improvement securities as set forth in Roseville Municipal Code Sections 18.20.150 and 18.20.160. Each security shall be in the amount of one hundred percent (100%) of the total estimated cost of the Work as determined by the City Engineer which amount is the sum of $3,098,508.50 One improvement security shall secure faithful performance of this Agreement as required by Section 66499.3(a) of the Government Code of the State of California (the "faithful performance" security). The second improvement security shall, as required by Section 66499.3(b) of the Government Code of the State of California, secure the obligations set forth in Title 15 (commencing with Section 3082) of Part 4 of Division 3 of the Civil Code of the State of California for payment to the contractor, his subcontractors and to persons renting equipment or furnishing labor or materials to them for the Work (the "payment security"). The improvement securities required under this paragraph shall also secure placement of monumentation and guarantee payment therefor as provided by California Government Code section 66496.

b. SUBDIVIDER shall also file with this Agreement a "guarantee and warranty security" in the amount of ten percent (10%) of the City Engineer's estimated cost of the Work as set forth in Section 18.20.170 of the Roseville Municipal Code to guarantee and warrant the Work for a period of one year following its completion and acceptance against any defective work or labor done, or defective materials furnished, as required by Section 66499(a)(5) of the Government Code of the State of California. The guarantee and warranty security shall be released upon SUBDIVIDER's request following expiration of the warranty period and subject to the reasonable determination of the City Engineer that SUBDIVIDER's warranty obligations have been satisfied.

c. Any bonds submitted as security pursuant to this section shall be executed by a surety company authorized to transact a surety business in the State of California. All required securities shall be in a form approved by the City Attorney of CITY.

6. Successors and Assigns – Covenant Running with the Land. This Agreement shall inure to the benefit of, and be binding upon, the successors and assigns of the respective parties. It shall be recorded in the Office of the Recorder of Placer County concurrently with the final map of the Subdivision, and shall constitute a covenant running with the land and an equitable servitude upon the real property within the Subdivision.

7. Acceptance of Improvements Upon Completion. Upon satisfactory completion of the Work, in accordance with this Agreement, CITY agrees to accept the Work and its improvements and the offers of dedication described in paragraph 1, subject to the provisions of paragraphs 1 and 10 of this Agreement.

8. Notice Regarding Construction. SUBDIVIDER shall notify the City Engineer of CITY in writing three (3) days prior to the commencement of construction of the Work.

9. Subdivider's Obligation to Warn Public During Construction. Until final acceptance of the Work, SUBDIVIDER shall give good and adequate warning to the public of each and every dangerous condition which may exist in the Work, and will take all reasonable actions to protect the public from any such dangerous condition.

10. Warranty.

a. SUBDIVIDER guarantees and warrants the public improvements which constitute the Work required by this Agreement, and agrees to remedy any defects in the improvements or the Work arising from faulty or defective materials or construction of said improvements or the Work occurring within twelve (12) months after their acceptance by CITY.

SUBDIVIDER agrees to permit inspection of all improvements in the Subdivision by the City Engineer of CITY for such period, and to reimburse CITY for the cost of such inspections.

b. If, within the warranty period, the Work or improvement or any part of the Work done, furnished, installed, or constructed fails to fulfill any of the requirements of this Agreement or the improvement plans and specifications, SUBDIVIDER shall, without delay or cost to CITY, repair, replace or reconstruct any defective or otherwise unsatisfactory part or parts of the Work. CITY may, at its sole option, perform such repair or replacement itself if SUBDIVIDER has failed to commence such repair within twenty (20) days after CITY has mailed written notice of default to SUBDIVIDER and to SUBDIVIDER'S Surety. In such event, SUBDIVIDER agrees to pay the cost of such repair and replacement by CITY and CITY may, at its option, recover such cost as a lien against the Subdivision should the cost exceed the inspection fee deposited pursuant to paragraph 4 of this Agreement.

Should CITY determine that the public safety requires repairs or replacements to be made before SUBDIVIDER can be notified, CITY may, in its sole discretion, make the necessary repairs or replacement or perform the necessary work. SUBDIVIDER shall pay to CITY the cost of such repairs and CITY may at its option recover such cost as a lien against the Subdivision.

11. Indemnification. To the fullest extent allowed by law, SUBDIVIDER shall defend, indemnify, and save and hold harmless 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 SUBDIVIDER '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.

SUBDIVIDER'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.

12. Insurance. SUBDIVIDER agrees to continuously maintain, in full force and effect, at a minimum the following policies of insurance during the term of this Agreement.

COVERAGE	LIMITS OF LIABILITY
General Liability	$2,000,000 per occurrence $4,000,000 aggregate Personal Injury: $2,000,000 per occurrence $4,000,000 aggregate
Automobile Liability	$1,000,000 combined single limit
Workers' Compensation	Statutory

a. Form. SUBDIVIDER 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.

b. Additional Insureds. SUBDIVIDER shall also provide a separate endorsement form or section of the policy showing CITY, its officers, agents, employees and volunteers as additional insureds for each type of coverage, except for Workers' Compensation, for ongoing and completed operations. Such insurance shall specifically cover the contractual

liability of SUBDIVIDER. The additional insured coverage under the SUBDIVIDER'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.

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

d. 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.

e. 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.

f. Waiver of Subrogation. SUBDIVIDER hereby agrees to waive subrogation which any insurer of SUBDIVIDER may acquire from SUBDIVIDER 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 worked performed by SUBDIVIDER, its employees, agents and subcontractors.

g. Liability/Remedies. Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve SUBDIVIDER 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.

13. Irrevocability of Security. The improvement securities furnished pursuant to paragraph 5 shall be irrevocable, shall not be limited as to time (except as to the one-year guarantee and warranty period specified in paragraph 10) and shall provide that they may be released, in whole or part, only upon the written approval of the City Engineer of CITY.

14. Attorney's Fees; Venue; Governing Law. Any action by any party to this Agreement, or any action concerning a security furnished pursuant to paragraph 5, shall be brought in the appropriate court of competent jurisdiction within the County of Placer, State of California, notwithstanding any other provision of law which may provide that such action may be brought in some other location. In the event it becomes necessary for either party to bring an action with respect to enforcement of the provisions of this Agreement, or the security therefor, the prevailing party in such action shall be awarded a reasonable attorney's fee, as may be

determined by the Court. This Agreement shall be governed by and construed in accordance with the laws of the State of California.

15. Release of Faithful Performance Security. Release of faithful performance security shall be in compliance with and pursuant to the procedures set forth in Government Code Section 66499.7. Upon the completion of all secured Work by SUBDIVIDER and written acceptance of that completed Work by CITY, and the furnishing of the warranty security as required by paragraph 5(b), the City Engineer shall authorize the release of the remaining faithful performance security.

16. Release of Payment Security. Thirty-five (35) days after a notice of completion is recorded with respect to the Work, the City Engineer of CITY may authorize the release of the payment security, in the event that no claims have been filed against said security. In the event that claims or actions are filed against the security, the City Engineer may release so much of such security as is in excess of the total of the claims made against it, plus a reasonable amount of costs and attorney's fees.

17. Automatic Termination Upon Completion and Sale of Residential Unit. This Agreement and any lien pursuant hereto shall automatically be terminated, without any further action by either party or need to record any additional document, with respect to any single-family residential lot within a parcel designated by the Specific Plan for residential use, upon completion of construction and issuance by the City of a final inspection for a dwelling unit upon such residential lot and conveyance of such improved residential lot to a bona-fide good faith purchaser thereof. In connection with its issuance of a final inspection for such improved lot, City shall confirm that: (i) all improvements which are required to serve the lot, as determined by City, have been accepted by City; (ii) the lot is included within the Maintenance CFD required

by Section 3.20 or other financing mechanism acceptable to the City, to the extent required hereby; and (iii) if and to the extent applicable to such lot, an affordable purchase or rental housing agreement has been recorded on the lot. Termination of this Agreement for any such residential lot as provided for in this section shall not in any way be construed to terminate or modify any assessment district or Mello-Roos Community Facilities District lien affecting such lot at the time of termination.

18. Failure of Performance. In addition to any other remedies provided in this Agreement or by law, in the event SUBDIVIDER fails to perform one or more of the covenants or conditions of this Agreement, CITY shall have recourse to the security given to guarantee the performance of such acts. CITY may do, or cause to be done, those acts required of SUBDIVIDER, and shall have recourse against so much of the security as is necessary to discharge the responsibility of SUBDIVIDER. In the event CITY seeks recourse against a security, CITY shall also have recourse against SUBDIVIDER for any and all amounts necessary to complete the obligations of SUBDIVIDER in the event the security is insufficient to pay such amounts. All administrative costs, including reasonable attorney's fees pursuant to Section 66499.4 of the Government Code, incurred by CITY, in addition to the costs of the improvements, shall be a proper charge against the security and SUBDIVIDER.

19. Integration. This Agreement is an integrated agreement. It supersedes all prior negotiations, representations, or agreements, either written or oral.

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

21. Notices. Any notices sent to the parties relating to this Agreement shall be sent by first class mail, postage prepaid or delivered to the following addresses:

Marc Stout, City Engineer
City of Roseville
311 Vernon Street
Roseville, CA 95678

Steve Porter, Director, Development
Anthem United Creekview Developments Limited Partnership
3001 Douglas Boulevard, Suite 200
Roseville, CA 95661

Either party may amend its address by giving written notice to the other.

22. 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.

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 SUBDIVIDER has caused this Agreement to be executed.

CITY OF ROSEVILLE, a municipal corporation,

BY: _____
DOMINICK CASEY
City Manager

ATTEST:

BY: _____
CARMEN AVALOS
City Clerk

Anthem United Creekview Developments Limited Partnership,
a Washington Limited Partnership

BY: _____
Print name: Brian Moore
Title: Vice President

and

BY: _____
Print name: Matt Gustus
Title: Vice President

(NOTARIZATION REQUIRED)

[L:\agreement\form agreements\subdivision agmt.docx; 2/14/2022]

APPROVED AS TO FORM:

BY:_____
MICHELLE SHEIDENBERGER
City Attorney

APPROVED AS TO SUFFICIENCY:

BY: _____
MARC STOUT
City Engineer

CALIFORNIA ACKNOWLEDGMENT CIVIL CODE § 1189

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 }

On July 26, 2022 (Date) before me, Bonnie Kwan, Notary Public (Here Insert Name and Title of the Officer)

personally appeared Brian Moore (Name(s) of Signer(s))

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

BONNIE KWAN
Notary Public - California
Placer County
Commission # 2317317
My Comm. Expires Dec 27, 2023

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.

Signature _____ (Signature of Notary Public)

Place Notary Seal and/or Stamp Above

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

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Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____	Signer's Name: _____
☐ Corporate Officer – Title(s): _____	☐ Corporate Officer – Title(s): _____
☐ Partner – ☐ Limited ☐ General	☐ Partner – ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other: _____	☐ Other: _____
Signer is Representing: _____	Signer is Representing: _____

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CALIFORNIA ACKNOWLEDGMENT **CIVIL CODE § 1189**

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 }

On July 26, 2022 before me, Bonnie Kwan, Notary Public
Date *Here Insert Name and Title of the Officer*

personally appeared Matt Gustus
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

BONNIE KWAN
Notary Public - California
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☐ Other: _____	☐ Other: _____
Signer is Representing: _____	Signer is Representing: _____

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COUNCIL COMMUNICATION

CC #: 2263
File #: 0800-02 & 0201-01

Title:	Recycled Water Systems Evaluation Update - Professional Services Agreement and Budget Adjustment
Contact:	Bryan Buchanan 916-746-1812 bbuchanan@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.16.

RECOMMENDATION TO COUNCIL

Staff recommends that City Council:

1. Adopt a resolution approving the Recycled Water Systems Evaluation Update Professional Services Agreement with Woodard and Curran Inc., and authorizing the City Manager to execute it; and

2. Adopt an ordinance approving a budget adjustment of $330,000 from available resources in the Wastewater Rehabilitation Fund to fully fund the project.

BACKGROUND

The City of Roseville owns and operates a recycled water system supplied with Title 22 disinfected tertiary recycled water from both of the City's Dry Creek and Pleasant Grove Wastewater Treatment Plants. The City supplies nearly 3,800 acre-feet of recycled water for irrigation and industrial cooling purposes to about 200 connections both inside and outside of the City boundary. This includes four golf courses and the Roseville Energy Park.

The engineering consultant, Woodard and Curran (previously RMC Water), created the original Recycled Water Systems Evaluation and updated it in 2016. Quickly-developing areas inside and outside of the City of Roseville, in conjunction with ongoing drought pressure, has created the need to update the Systems Evaluation from 2016. This update will allow for adjustments and updates to planned demands and needed infrastructure necessary to serve them.

Staff recommends to enter into a sole source professional services agreement with Woodard and Curran due to their intimate knowledge of the City's current and planned recycled water system, as well as the value provided in previous iterations of the Recycled Water Systems Evaluation. The proposed scope and fee in the agreement has been reviewed by City staff. City staff feels it is appropriate and reflects an accurate level of effort for this study.

FISCAL IMPACT

The cost of $330,000 for this study will be funded by available resources in the Wastewater Rehabilitation Fund. This amount will fund the agreement with Woodard and Curran ($300,000) and City staff labor expenses ($30,000).

ENVIRONMENTAL REVIEW

The proposed project involves basic data collection, research, experimental management, and resource evaluation activities which do not result in a serious or major disturbance to an environmental resource. This activity is categorically exempt from CEQA as a Class 6 Exemption (State CEQA Guidelines Section 15306). The Exemption has been prepared and no further CEQA action is required.

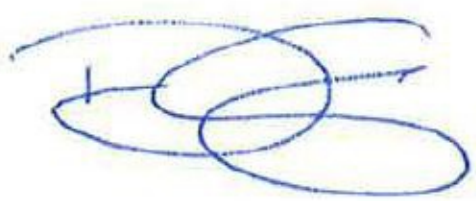
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal F – Invest in well-planned infrastructure and growth.

Respectfully Submitted,

Bryan Buchanan, Principal Engineer

Richard Plecker, Environmental Utilities Director



_____

Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 22-325

PSA Woodard and Curran

Ordinance 6541

Budget Adjustment

RESOLUTION NO. 22-325

APPROVING A PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND WOODARD AND CURRAN INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a professional services agreement for Recycled Water Systems Evaluation Update, by and between the City of Roseville and Woodard and Curran Inc., has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said professional services 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 _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

PROFESSIONAL SERVICES AGREEMENT

Project: Recycled Water Systems Evaluation

THIS AGREEMENT is made and entered into this ___ day of _____, 20__, by and between the City of Roseville, a municipal corporation ("CITY"), and Woodard & Curran Inc., a Maine corporation ("CONSULTANT"); and

W I T N E S S E T H:

WHEREAS, CITY desires professional services to provide a study that will evaluate the City's existing infrastructure and provide recommended alternatives to meet future anticipated future recycled water demands; and

WHEREAS, CONSULTANT has prepared a proposal dated March 3, 2022, which describes the scope of work to be performed by CONSULTANT, the budget for the work, and the schedule for performance of the work; and

WHEREAS, CONSULTANT is qualified and experienced to provide such professional services.

NOW, THEREFORE, the parties agree as follows:

1. Services. CONSULTANT shall perform, at the direction of CITY, the scope of services as described in EXHIBIT "A," attached hereto and incorporated herein by this reference.

2. Compensation. For its services provided hereunder, CONSULTANT shall be compensated on a time and expense basis in accordance with the budget estimate as described in EXHIBIT "B," attached hereto and incorporated herein by this reference. Total compensation shall not exceed two hundred ninety-nine thousand, and ninety dollars ($299,090).

CONSULTANT shall submit one monthly invoice for its services. Such invoices shall be delineated by task, the person performing the services, and the hourly rate, which shall be stated in time increments of not greater than one tenth (1/10) hours. CITY shall pay invoices within thirty (30) days after receipt, if the services specified in the invoice have been satisfactorily completed.

3. Indemnification. To the fullest extent allowed by law, CONSULTANT shall defend, indemnify, and save and hold harmless 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 CONSULTANT'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 negligence or willful misconduct. The parties intend that this provision shall be broadly construed.

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.

CONSULTANT'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. Notwithstanding the foregoing, the provisions of California Civil Code section 2782.8 shall apply to this Agreement.

4. Insurance. CONSULTANT agrees to continuously maintain, in full force and effect, the following minimum policies of insurance during the term of this Agreement.

COVERAGE	LIMITS OF LIABILITY
Workers' Compensation	Statutory
Commercial General Liability	$1,000,000 each occurrence $2,000,000 aggregate Personal Injury: $1,000,000 each occurrence $2,000,000 aggregate
Automobile Liability	$1,000,000 combined single limit
Professional Liability (errors and omissions)	$1,000,000 per claim $2,000,000 aggregate

a. Form. CONSULTANT 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.

b. Additional Insureds. CONSULTANT shall also provide a separate endorsement form or section of the policy showing CITY, its officers, agents, employees and volunteers as additional insureds for each type of coverage, except for Workers' Compensation

and Professional Liability. Such insurance shall specifically cover the contractual liability of CONSULTANT. The additional insured coverage under the CONSULTANT'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. Furthermore, the requirements for coverage and limits shall be the minimum coverage and limits specified in this Agreement.

c. Cancellation/Modification. CONSULTANT shall provide ten (10) days written notice to CITY prior to cancellation or material modification of any insurance required by this Agreement.

d. 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.

e. Subcontractors. CONSULTANT 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, CONSULTANT shall require its subcontractors to agree to be bound to CONSULTANT and CITY in the same manner and to the same extent as CONSULTANT is bound to CITY under this Agreement. Additionally, CONSULTANT 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.

f. 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.

g. Waiver of Subrogation. CONSULTANT hereby agrees to waive subrogation which any insurer of CONSULTANT may acquire from CONSULTANT 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 worked performed by CONSULTANT, its employees, agents and subcontractors.

h. Liability/Remedies. Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve CONSULTANT 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.

5. Records. CONSULTANT and its subcontractors shall maintain all files and records relating to the services performed hereunder during the term of this Agreement and for a period of not less than one (1) year after the date of termination or expiration. Provided, however, that in the event of litigation or settlement of claims arising from the performance of

this Agreement, CONSULTANT and its subcontractors shall maintain all files and records until such litigation, appeals or claims are resolved. Duly authorized representatives of CITY shall have right of access during normal business hours and after reasonable notice to CONSULTANT's and subcontractors' files and records relating to the services performed hereunder, and may review and copy the files and records at appropriate stages during performance of the services and during the one (1) year period following termination or expiration of this Agreement. CONSULTANT shall include this provisions in its contracts with all subcontractors.

6. Time is of the Essence. Time is of the essence of this Agreement.

7. Prevailing Wages. When applicable, for purposes of this Agreement, CONSULTANT and its subcontractors shall comply with all applicable prevailing wage laws, e.g., but not limited to, California Labor Code Sections 1770 et seq. In accordance with said Section 1775, CONSULTANT shall forfeit as a penalty to the City two hundred dollars ($200) for each calendar day or portion thereof for each worker paid less than the prevailing rates for such work or craft in which such worker is employed for any work done on-site under the Agreement by CONSULTANT or by any subcontractor in violation of the provisions of the Labor Code and in particular, Labor Code Sections 1770 to 1780, inclusive. In addition to said penalty and pursuant to said Section 1775, 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 CONSULTANT or the applicable subcontractor.

Pursuant to the provisions of California Labor Code Section 1773, the contracting department has identified the source, stated below, of the general prevailing rate of wages

applicable to the site to be done, for straight time, overtime, 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. 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.

Pursuant to Labor Code Section 1773.2, general prevailing wage rates set forth above, which forms a part of this Agreement, shall be posted by CONSULTANT at a prominent place at the work site. Prevailing wage rates to be posted at the work site will be furnished by the contracting department. The possibility of wage increases is one of the elements to be considered by CONSULTANT in determining its proposal, and will not under any circumstances be considered as the basis of a claim against CITY or the Agreement.

8. Compliance with Laws. CONSULTANT shall comply with all federal, state and local laws, ordinances and policies as may be applicable to the performance of services under this Agreement.

9. Ability to Perform. CONSULTANT agrees and represents that it has the time, ability and professional expertise to perform the services required under this Agreement.

10. Governing Agreement. In the event of any conflict between this Agreement and its EXHIBITS, the provisions of this Agreement shall govern. In the event of any conflict between any of the EXHIBITS, the provisions of the first in order of attachment shall govern.

11. Assignment. CONSULTANT is employed to perform unique personal services. CONSULTANT shall not assign this Agreement without the prior written consent of CITY. CONSULTANT shall not employ or otherwise incur any obligation to pay other specialists or experts for services in connection with this Agreement, without prior written consent of CITY.

12. Independent Contractor. CONSULTANT, inclusive of its agents, officers, employees, volunteers, independent contractors, and subcontractors, 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.

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.

13. Representations and Warranties. CONSULTANT warrants that it has not employed or retained any company or person, other than a bona fide employee working for CONSULTANT, to solicit or secure this Agreement, and that it has not paid or agreed to pay any company or person, other than a bona fide employee, any fee, commission, percentage, brokerage fee, gift or any other consideration, contingent upon or resulting from the award or

making of this Agreement. For breach or violation of this warranty, CITY shall have the right to terminate as void this Agreement, without liability, or, in its discretion, to deduct from the Agreement price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gift or contingent fee.

14. Successors in Interest. This Agreement shall be binding upon the heirs, successors, executors, administrators and assigns of the respective parties hereto.

15. Copyright, Ownership and Use of Materials. All tangible material ("Material") created or delivered pursuant to this Agreement is considered a work made for hire under the Copyright Act. To the extent such Material does not qualify as a work made for hire, CONSULTANT hereby assigns to CITY all right, title, and interest, including but not limited to all copyrights, in all Material created by CONSULTANT in its performance under this Agreement. Material constitutes the scope of work outlined in Exhibit A and attached hereto, and all written and other tangible expressions, including but not limited to, drawings (including computer aided drawings), papers, documents, reports, surveys, renderings, exhibits, sketches, maps, models, prints, paintings or photographs, in any and all media or formats in which such materials have been created or are maintained. All Material furnished by CONSULTANT is, and shall remain, the property of CITY.

CONSULTANT shall execute any documents necessary to effectuate such assignment. In the event that CONSULTANT uses, employs, designates, or retains any person or entity who is not an employee of CONSULTANT, to perform any work required of it pursuant to this Agreement, CONSULTANT shall require said person or entity to execute an agreement containing the preceding paragraph.

16. Termination of Agreement. The City may terminate this Agreement without cause by giving CONSULTANT ten (10) days advance written notice from the City Manager. CONSULTANT may terminate this Agreement without cause by giving CITY thirty (30) days advance written notice. In the event of termination through no fault of CONSULTANT, CITY shall compensate CONSULTANT for services performed as of the date of termination, upon the release to CITY of all Material hereunder, in any and all media or formats in which such materials have been created or are maintained. CITY retains the right to receive and use any Material, notwithstanding any termination or any dispute regarding the amount to be paid.

17. Attorney's Fees; Venue; Governing Law. If either party commences any legal action against the other party arising out of this Agreement or the performance hereof, 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 attorney's 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.

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

19. 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.

20. Notices. Any notices to parties required by this Agreement shall be delivered personally or mailed, U.S. first class postage prepaid, addressed as follows:

CITY OF ROSEVILLE	CONSULTANT
Bryan Buchanan, Principal Engineer 2005 Hilltop Circle Roseville, CA 95747	David L. Richardson, Senior Principal 2175 N. California Blvd., Ste. 315 Walnut Creek, CA 94596

Either party may amend its address for notice by giving notice to the other party in writing.

21. 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.

22. Limit of Liability/Consequential Damages. Neither party shall be responsible or liable to the other for special, indirect, or consequential damages. The total aggregate liability of the Consultant to City for any and all claims whatsoever arising out of this Agreement shall not exceed the total applicable insurance proceeds paid to Consultant by its insurers up to the amount of the minimum specified insurance policy limits set forth in this Agreement.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this 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 Agreement to be executed.

CITY OF ROSEVILLE, a municipal corporation

BY: _____
DOMINICK CASEY
City Manager

WOODARD & CURRAN INC., a Maine corporation

BY: Rebecca Tilbert
its: Corporate Secretary

and

ATTEST:

BY: _____
its: Vice President

BY: _____
CARMEN AVALOS
City Clerk

APPROVED AS TO FORM:

BY: _____
MICHELLE SHEIDENBERGER
City Attorney

APPROVED AS TO SUBSTANCE:

BY: _____ Sean Bigley for Richard D. Plecker
RICHARD D. PLECKER
Environmental Utilities Director

EXHIBIT "A"

2175 N California Blvd
Suite 315
Walnut Creek, CA 94596
www.woodardcurran.com

T 800.426.4262
T 925.627.4100

Via Electronic Mail

March 3, 2022

Woodard & Curran

Bryan Buchanan
City of Roseville
311 Vernon St.
Roseville, California 95678

Re: Proposal to Prepare a Recycled Water Systems Evaluation Update

Dear Mr. Buchanan:

Woodard & Curran, Inc. (Woodard & Curran) appreciates the opportunity to submit a proposal to the City of Roseville (City) for the update of the Recycled Water Systems Evaluation that was previously prepared by RMC Water and Environment (now Woodard & Curran)

The City has been growing rapidly over the past few decades and anticipates continued development over the next several years. This expansion has substantially increased the demand for recycled water in the area, and associated facilities to serve the recycled water customers. As a result of this continued growth and changes in some of the facility plans, the previous planning document, the 2016 Recycled Water Systems Evaluation, is need of an update. As part of the effort to ensure that future recycled water infrastructure will be adequate to meet all demands in its service area, Woodard & Curran has been asked by the City to provide a scope of work for an updated Systems Evaluation.

The study will evaluate the City's existing infrastructure and provide recommended alternatives to meet future anticipated future recycled water demands. Because of our extensive knowledge of your system, and understanding of your recycled water system model, and some of your unique challenges in accommodating new demands on the system and their relationship to the supply of treated recycled wastewater from your two plants, Woodard & Curran is uniquely positioned to efficiently and cost effectively accomplish this assignment. The detailed scope of work is provided in Attachment A. We anticipate that the work will take nine months to complete with a fee of $299,000. A detailed schedule and fee estimate are included in Attachments B and C, respectively, and our rate structure is provided in Attachment D.

We greatly appreciate this opportunity to offer our services. Please feel free to contact me if you have any questions regarding this proposal or require any further information.

Sincerely,

David L. Richardson

David L. Richardson, PE
Senior Principal
Woodard & Curran

Attachment A – Roseville Recycled Water Systems Evaluation Scope of Work

The scope of work includes six tasks as described below. Technical Memorandums produced will be developed to be incorporated as chapters in the Recycled Water Systems Evaluation Report. All deliverables indicated below will be submitted in electronic format to the City.

Task 1. Project Management

Provide monthly progress reports, budget tracking, client meetings and communications, and schedule coordination. For budgetary purposes, it is assumed that monthly meetings with City staff will be held, and all meetings will be virtual. One of these meetings would be the project kickoff meeting that would include review of the goals and objectives, schedule, general project details, and collection of needed data/reports.

Woodard & Curran Deliverables:

- Monthly progress reports, invoicing, and schedule updates
- Attendance at a project kick-off meeting and up to two (2) workshops with City staff, including agenda, meeting materials, and meeting notes
- Participation in progress meetings with City staff
- Budget assumes a 9-month project duration

Task 2. Data Collection

Prepare an initial request list of data and information that may be relevant to the Systems Evaluation. The information may include planning data, facility information, and other required information including but not limited to:

- Developer planning documents, including information on recycled water demands and planned facilities.
- Facility plans in the vicinity of the West Roseville Pump Station and Storage site.
- SCADA data, as needed.

Woodard & Curran will review the data to assess the information available for preparing the Systems Evaluation. For any data that is not available but critical for the Systems Evaluation, Woodard & Curran will recommend an approach for obtaining the information or making use of existing data and will discuss this approach with the City.

Woodard & Curran Deliverables:

- Data request list

Task 3. Recycled Water Demand and Supply Evaluation

3.1. Refine Potential Recycled Water Demand

A list of existing and future recycled water customers was previously developed for the 2016 Recycled Water Systems Evaluation and updated in the 2020 Recycled Water System Model Development Report. Under this task, Woodard & Curran will perform the following additional updates:

- Add any new customers connected since 2020, based on consumption data provided by City of Roseville. Update demands of other existing customers as needed to reflect current water usage including review and refinement of peaking factors.
- Review customer usage data for selected customers (i.e. golf courses), and discuss with the City opportunities to better optimize water usage patterns.
- Update estimated demands of future growth areas, based on the most recent planning information (including connections to Placer County UGAs, such as Placer Ranch and Regional University).
- Add any potential new customers not previously included in the potential customer list, to be identified by the City.

This task includes developing a timeline of potential connection of future growth areas, to facilitate development of a phasing plan for future facilities.

3.2. Refine Supply Availability

Refine availability of recycled water supply based on recent treatment plant flow data and future projections. Compare future recycled water supply availability to potential recycled water demand. Supply availability will consider diurnal variations in WWTP effluent flow to better evaluate existing and future storage requirements. This task may also consider potential changes to discharge requirements at the Dry Creek WWTP (currently 4 MGD, measured as an average daily flow).

Woodard & Curran Deliverables:

- Summary of recycled water demand and supply evaluation to be incorporated in the Alternatives Evaluation TM under Task 4.

Task 4. Alternatives Development and Analysis

Develop and evaluate up to three (3) alternative concepts for expansion of the recycled water distribution system. The three alternatives to be developed will be determined based on the results of Tasks 1-4 and agreed upon with Roseville during Progress Meeting No. 1.

4.1. Update Hydraulic Model

Update the existing distribution system hydraulic model to reflect the results of Task 3 and any newly constructed facilities. This model will be used to evaluate each alternative concept in subtask 4.2. The distribution system model will use the InfoWater modeling

platform. Where appropriate, modeling will be performed in EPS mode to evaluate storage needs.

4.2. Alternative Refinements and Evaluation

Establish planning level design criteria for sizing distribution and storage facilities, including minimum pressure requirements for customer connections. Identify preliminary alignments and sizing for the recycled water distribution systems and pumping/storage facility locations for each alternative concept. A recycled water distribution system model will be developed for each alternative to evaluate and optimize distribution system capacity, required booster pumping, and storage (appropriate volume and potential locations required for operational reliability).

4.3. Develop Cost Estimates for Each Alternative

Develop an order of magnitude capital cost and annual operating costs for the alternatives. Cost estimates will be at a feasibility level and will be developed using cost curves and information from previous projects. Estimates of this type typically have an accuracy range of -30% to +50%.

4.4. Comparison/Ranking of Alternatives

Compare the alternatives on their technical and non-technical merits and discuss with City to identify the recommended recycled water alternative.

Woodard & Curran Deliverables:

- Draft Alternatives Analysis Technical Memorandum (TM). City comments on the Draft TM will be incorporated in the Systems Evaluation Report

Task 5. Recommended Facilities Project Plan

5.1. Describe Recommended Project

Further refine the recommended project including potential customers, facility sizing and alignments for pipelines, pump stations, and storage. Analysis will include a more detailed review of distribution system configuration (including easement, right-of-way, critical crossings, traffic issues, etc.) and storage location (or booster pumping). This facility plan will provide the level of detail necessary to move forward to the next phase, a preliminary design report.

5.2. Implementation Plan for Recommended Project

Identify follow-on tasks required for project implementation including CEQA analysis, permitting requirements, and final design. Phasing of the project in up to three phases (based on location of demands, timing of new demands, etc.) is also to be evaluated, if appropriate. A refined capital cost for each project phase is to be provided. Develop schedule for implementation of recommended project.

Woodard & Curran Deliverables:

- Draft Implementation Plan Technical Memorandum. City comments on the Draft TM will be incorporated in the Systems Evaluation Report

Task 6. Prepare Recycled Water Systems Evaluation Report

Develop Draft and Final Systems Evaluation Report, incorporating results from the previous Tasks.

Woodard & Curran Deliverables:

- Draft and Final Recycled Water Systems Evaluation Report (delivered electronically)

EXHIBIT "B"

Attachment B – Roseville Recycled Water Systems Evaluation Project Schedule

Tasks	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Task 1: Project Management									
Meetings and Communication (2)	X					X			
Project Administration									
Task 2: Data Collection									
Data Collection and Review									
Task 3: Recycled Water Demand and Supply Evaluation									
3.1 Refine Potential Recycled Water Demand									
3.2 Refine Supply Availability									
Task 4: Alternatives Development and Analysis									
4.1 Update Hydraulic Model									
4.2 Alternative Refinements and Evaluation									
4.3 Develop Cost Estimates for Each Alternative									
4.4 Comparison/Ranking of Alternatives						XX			
Task 5: Recommended Facilities Project Plan									
5.1 Describe Recommended Project									
5.2 Implementation Plan for Recommended Project							XX		
Task 6: Description									
Prepare Recycled Water Systems Evaluation Report								XX (Draft)	XX (Final)

Attachment C – Roseville Recycled Water Systems Evaluation Fee Estimate

Tasks	PIC (Dave)	Technical Manager (Chris)	Project Engineer/Modeling	Facility Planning	Graphics / CAD / Admin.	Total Hours	Total Fee
Task 1: Project Management							
Project Management	6	16	24	8	12	66	$16,820
Subtotal Task 1:	6	16	24	8	12	66	$16,820
Task 2: Data Collection							
Data Collection and Review	0	8	24	0	0	32	$8,240
Subtotal Task 2:	0	8	24	0	0	32	$8,240
Task 3: Recycled Water Demand and Supply Evaluation							
3.1 Refine Potential Recycled Water Demand	2	16	96	0	0	114	$28,940
3.2 Refine Supply Availability	2	8	40	0	0	50	$12,860
Subtotal Task 3:	4	24	136	0	0	164	$41,800
Task 4: Alternatives Development and Analysis							
4.1 Update Hydraulic Model	0	4	80	0	0	84	$19,340
4.2 Alternative Refinements and Evaluation	4	32	64	64	0	164	$40,440
4.3 Develop Cost Estimates for Each Alternative	2	8	8	80	0	98	$23,820
4.4 Comparison/Ranking of Alternatives	4	16	32	76	0	128	$31,920
Subtotal Task 4:	10	60	184	220	0	474	$115,520
Task 5: Recommended Facilities Project Plan							
5.1 Describe Recommended Project	2	16	20	92	16	146	$35,960
5.2 Implementation Plan for Recommended Project	2	24	36	112	0	174	$42,900
Subtotal Task 5:	4	40	56	204	16	320	$78,860
Task 6: Description							
6.1 Draft Recycled Water Systems Evaluation Report	6	12	54	32	8	112	$27,620
6.2 Final Recycled Water Systems Evaluation Report	2	6	20	10	4	42	$10,230
Subtotal Task 6:	8	18	74	42	12	154	$37,850
TOTAL	**32**	**166**	**498**	**474**	**40**	**1210**	**$299,090**

1. The individual hourly rates include salary, overhead and profit.
2. Subconsultants will be billed at actual cost plus 10%.
3. Other direct costs (ODCs) such as reproduction, delivery, mileage (rates will be those allowed by current IRS guidelines), and travel expenses, will be billed at actual cost plus 10%.
4. W&C reserves the right to adjust its hourly rate structure and ODC markup at the beginning of the calendar year for all ongoing contracts.
5. Additional Woodard & Curran staff may perform work on the project, based on our standard billing rate schedule currently in effect.

2175 N California Blvd
Suite 315
Walnut Creek, CA 94596
www.woodardcurran.com

T 800.426.4262
T 925.627.4100

Attachment D – Woodard & Curran 2022 Rate Table

2022 Standard Rates	
Labor Category	**2022 Rate**
Engineer 1 (E1) Scientist 1 (S1) Geologist 1 (G1) Planner 1 (P1) Technical Specialist 1 (TS1)	180
Engineer 2 (E2) Scientist 2 (S2) Geologist 2 (G2) Planner 2 (P2) Technical Specialist 2 (TS2)	205
Engineer 3 (E3) Scientist 3 (S3) Geologist 3 (G3) Planner 3 (P3) Technical Specialist 3 (TS3)	235
Project Engineer 1 (PE1) Project Scientist 1 / Project Specialist 1 (PS1) Project Geologist 1 (PG1) Project Planner 1 (PP1) Project Technical Specialist 1 (PTS1)	245
Project Engineer 2 (PE2) Project Scientist 2 / Project Specialist 2 (PS2) Project Geologist 2 (PG2) Project Planner 2 (PP2) Project Technical Specialist 2 (TS2)	260
Project Manager 1 (PM1)	280
Technical Manager 1 (TM1)	
Project Manager 2 (PM2)	295
Technical Manager 2 (TM2)	
Senior Project Manager (SPM)	315
Senior Technical Manager (STM)	
Senior Technical Practice Leader (STPL)	330
National Practice Leader (NPL)	330
Software Engineer 1 (SE1)	165
Software Engineer 2 (SE2)	185
Software Engineer 3 (SE3)	200
Designer 2 (D2)	170
Designer 3 (D3) Senior Software Developer (SSD)	175
Senior Designer (SD)	180
Designer 1 (D1)	140
Graphic Artist / Graphic Manager	
Billing Manager	
Marketing Assistant / Marketing Manager	
Senior Accountant (SA)	
Senior Project Assistant	
Project Assistant (PA)	120

ORDINANCE NO. 6541

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2022-23 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 2022-23, is hereby amended as listed on the attached budget adjustment for the Recycled Water Systems Evaluation Update.

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 _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

REQUEST FOR BUDGET ADJUSTMENT

REQUESTER NAME & TITLE:	Bryan Buchanan, Principal Engineer	FISCAL YEAR:	2022-23
PREPARER NAME & TITLE:	Teri Quinlan, EU Business Analyst	COUNCIL DATE (if applicable):	8/3/2022
DEPARTMENT/DIVISION:	EU/Wastewater	ORDINANCE:	

EXPENDITURES/EXPENSES/TRANSFERS OUT

ACCOUNT STRING				BUDGET ($)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
6230	5301	84001	500310	300,000	Establish professional services budget
6230	5080	84001	500310	30,000	Establish secondary labor budget
			TOTAL	330,000	

REVENUES/TRANSFERS IN

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

	NET ADJUSTMENT	330,000

FUND BALANCE

ACCOUNT STRING				BUDGET ($)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
6230	3601	0		(330,000)	Reduce Wastewater Rehabilitation Fund Balance
			TOTAL	(330,000)	

Justification for Budget Adjustment:

The City of Roseville owns and operates a recycled water system supplied with Title 22 disinfected tertiary recycled water from both of the City's Dry Creek and Pleasant Grove Wastewater Treatment Plants. The City supplies nearly 3,800 acre-feet of recycled water for irrigation and industrial cooling purposes to about 200 connections both inside and outside of the City boundary. This includes four golf courses and the Roseville Energy Park.

The engineering consultant Woodard and Curran (previously RMC Water) created the original Recycled Water Systems Evaluation and updated it in 2016. Quickly developing areas inside and outside the City in conjunction with ongoing drought pressure have created the need to update the Systems Evaluation from 2016.

The Recycled Water Systems Evaluation Update project - # 500310 will allow for adjustments and updates to planned demands and needed infrastructure necessary to serve them. This project's $330,000 budget ($300,000 for professional services and $30,000 for staff secondary labor) will come from 6230 - Wastewater Rehabilitation Fund Balance.

The reimbursement for staff secondary labor is already budgeted in the Wastewater Operations Fund and are programmed in those same budgets for FY2022-23. The project is expected to be completed by June 2024.

REQUIRED APPROVALS:

Richard D. Poulsen	712/22	Paula Sabo Digitally signed by Paula Sabo Date: 2022.07.12 17:33:08 -07'00'	
REQUESTING DEPARTMENT HEAD / DESIGNEE	DATE	BUDGET MANAGER / DESIGNEE	DATE
Dennis Kauffman Digitally signed by Dennis Kauffman Date: 2022.07.12 17:36:37 -07'00'			
CHIEF FINANCIAL OFFICER / DESIGNEE	DATE	CITY MANAGER / DESIGNEE	DATE

BUDGET DEPARTMENT USE ONLY:

POSTED BY	DATE

Revised: June 24, 2019

COUNCIL COMMUNICATION

CC #: 2257
File #: 0102 & 0201-01

Title:	Council Discretionary Funds - Budget Adjustment
Contact:	Cary Camilleri 916-746-1350 cacamiller@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.17.

RECOMMENDATION TO COUNCIL

Recommend Council adopt an ordinance approving a budget adjustment in the amount of $13,509 to carry forward unappropriated FY2021-22 Discretionary Funds for use in FY2022-23.

BACKGROUND

The Citizens' Benefit Fund was established in 1993 with the net proceeds from the sale of the Roseville Hospital. The City Council may, after receiving the recommendation of the Roseville Grants Advisory Commission, annually appropriate up to 90 percent of the annual earnings of the Citizens' Benefit Fund for the purpose of improving the quality of life for the citizens of the City of Roseville. The City Council, without the recommendation of the Roseville Grants Advisory Commission, may annually appropriate a minor amount up to $15,000 of the annual earnings for the purpose of improving the quality of life in Roseville.

FISCAL IMPACT

There is no fiscal impact to the City's General Fund. Annually, the Assistant City Manager/Chief Financial Officer allocates $15,000 of the annual earnings on the Citizens' Benefit Fund per section 4.06.040 in the Municipal Code and includes it in the annual budget along with the Citizens' Benefit Fund resources available for appropriation each year. These earnings are restricted for the purpose of improving the quality of life for Roseville residents and appropriated by the City Council.

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.

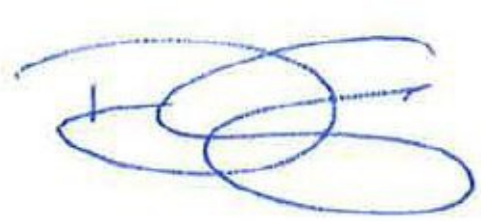
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal B - Support community engagement and advocacy

Respectfully Submitted,

Cary Camilleri, Management Assistant

Carmen Avalos, City Clerk



_____

Dominick Casey, City Manager

ATTACHMENTS:

Description

Ordinance 6540

Budget Adjustment

ORDINANCE NO. 6540

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2022-23 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 2022-23, is hereby amended as listed on the attached budget adjustment for Council Discretionary Funds.

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 _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

REQUEST FOR BUDGET ADJUSTMENT

REQUESTER NAME & TITL: Cary Camilleri, Management Assistant
FISCAL YEAR: FY2022
PREPARER NAME & TITLE: Cary Camilleri, Management Assistant
COUNCIL DATE (if applicable): 08/17/2022
DEPARTMENT/DIVISION: City Manager
ORDINANCE:

EXPENDITURES/EXPENSES/TRANSFERS OUT

ACCOUNT STRING				BUDGET ($)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
3901	5570	54091	000000	13,509	Citizen Benefit Trust- Council Discretionary Funds FY22 to FY23 balance Carry Forward- **FUNCTION-30504**
			TOTAL	13,509	

REVENUES/TRANSFERS IN

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

	NET ADJUSTMENT	13,509

FUND BALANCE

ACCOUNT STRING				BUDGET ($)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
3901				(13,509)	Reduce Citizen's Benefit Trust fund balance
			TOTAL	(13,509)	

Justification for Budget Adjustment:

Per Roseville Municipal Code-Section 4.060.040, City Council has the authority to carry forward any unappropriated Citizen's Benefit Trust (Council Discretionary Funds) from one fiscal year to the next. City Council Action will be taken on 08/17/2022 to request the carry forward of $13,509 from FY2022 to FY2023, which will increase the Council's Discretionary Funds for FY2023 to $28,509 allowing the Council greater flexibility on discretionary requests received in FY2023.

REQUIRED APPROVALS:

REQUESTING DEPARTMENT HEAD/DE — DATE
Dennis Kauffman Digitally signed by Dennis Kauffman Date: 2022.08.01 17:38:37 -07'00'

BUDGET MANAGER / DESIGNEE — DATE
Scott Pettingell Digitally signed by Scott Pettingell Date: 2022.08.01 17:22:19 -07'00'

CHIEF FINANCIAL OFFICER / DESIGNE — DATE

CITY MANAGER / DESIGNEE — DATE

BUDGET DEPARTMENT USE ONLY:

POSTED BY — DATE

Revised: June 24, 2019

COUNCIL COMMUNICATION

CC #: 2268
File #: 0400-02-12-2

Title:	Second Reading - Sierra Vista Specific Plan Parcel JM-41 and JM-30 - Rezone and Development Agreement Amendment
Contact:	Shelby Maples 916-746-1347 smaples@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.18.

RECOMMENDATION TO COUNCIL

ORDINANCE NO. 6542 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. 6543 OF THE COUNCIL OF THE CITY OF ROSEVILLE ADOPTING A THIRD AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND SVC1, LLC 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.

BACKGROUND

Not applicable.

FISCAL IMPACT

Not applicable.

ENVIRONMENTAL REVIEW

Not applicable.

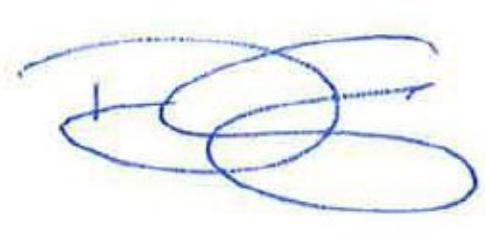
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Not applicable.

Respectfully Submitted,

Shelby Maples, Associate Planner

Mike Isom, Development Services Director



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Dominick Casey, City Manager

ATTACHMENTS:

Description

Ordinance 6542

Ordinance 6543

ORDINANCE NO. 6542

ORDINANCE 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

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. The Council of the City of Roseville has reviewed the findings of the Planning Commission regarding approval of the rezone specified herein, and make the following findings pursuant to Section 19.86.050 of the Zoning Ordinance:

1. The rezone is in conformance with the public interest, health, safety, or welfare of the City; and

2. The rezone is consistent with the objectives, policies, programs, and land use designations of the City of the Roseville General Plan and the Sierra Vista Specific Plan.

SECTION 2. Section 19.06.020 of the Zoning Ordinance of the City of Roseville, Ordinance No. 5428, is amended to change the zoning of that portion of certain real property within the City of Roseville known as the Sierra Vista Specific Plan (SVSP), as shown and so designated in Exhibit "D", which is attached hereto and incorporated herein by reference, to adjust the acreage and configuration of zoning boundaries for Multi-family Housing (R3) Parcel JM-30, and adjust the acreage and configuration of Commercial Mixed Use –Special Area Overlay (CMU/SA) Parcel JM-41.

SECTION 3. This ordinance shall be effective at the expiration of thirty (30) days from the date of adoption.

SECTION 4. 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 _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

City Clerk

ORDINANCE NO. 6543

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE ADOPTING A THIRD AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND SVC1, LLC RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. In accordance with Chapter 19.84 of Title 19 of the Roseville Municipal Code (the Zoning Ordinance) of the City of Roseville, the City Council has received the recommendation of the Planning Commission that the City of Roseville enter into a Third Amendment of the Development Agreement by and between the City of Roseville and SVC1, LLC, a California limited liability company ("SVC1"), pertaining to the property located within the Sierra Vista Specific Plan area.

SECTION 2. Prior to considering the proposed Third Amendment to Development Agreement, the City Council considered the Addendum to the Sierra Vista Specific Plan Environmental Impact Report (EIR) certified on May 5, 2010, pursuant to the California Environmental Quality Act, California Public Resources Code Section 21000 *et seq.*

SECTION 3. The Council of the City of Roseville has reviewed the findings of the Planning Commission recommending approval of the Third Amendment to Development Agreement, and makes the following findings:

1. The Third Amendment to Development Agreement is consistent with the objectives, policies, programs and land use designations of the City of Roseville General Plan andthe Sierra Vista Specific Plan;

2. The Third Amendment to Development Agreement is consistent with the City of Roseville Zoning Ordinance;

3. The Third Amendment to Development Agreement is in conformance with the public health, safety and welfare;

4. The Third Amendment to Development Agreement will not adversely affect the orderly development of the property or the preservation of property values; and

5. The provisions of the Third Amendment to Development Agreement will provide sufficient benefit to the City to justify entering into said Amendment;

SECTION 4. The Third Amendment to Development Agreement, by and between the City of Roseville and SVC1, LLC relative to the Sierra Vista Specific Plan, a copy of which is on file in the City Clerk's Department and incorporated herein by reference, is hereby approved and the City Manager is authorized to execute it on behalf of the City of Roseville.

SECTION 5. The City Clerk is directed to record the executed Development Agreement Amendment within ten (10) days of the execution of the agreement by the City Manager with the County Recorder's Office of the County of Placer.

SECTION 6. This ordinance shall be effective at the expiration of thirty (30) days from the date of its adoption.

SECTION 7. 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 _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

COUNCIL COMMUNICATION

CC #: 2269
File #: 0600-03

Title:	Second Reading - Retiree Medical Insurance Optional Benefit - Roseville Municipal Code Amendment
Contact:	Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.19.

RECOMMENDATION TO COUNCIL

ORDINANCE NO. 6544 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTIONS 3.09.030 AND 3.09.040 OF CHAPTER 3.09 OF TITLE 3 OF THE ROSEVILLE MUNICIPAL CODE REGARDING RETIREE MEDICAL INSURANCE OPTIONAL BENEFIT, for second reading and adoption.

BACKGROUND

Not applicable.

FISCAL IMPACT

Not applicable.

ENVIRONMENTAL REVIEW

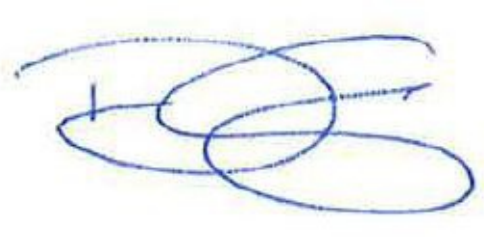
Not applicable.

CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Not applicable.

Respectfully Submitted,

Dennis Kauffman, Assistant City Manager/Chief Financial Officer



Dominick Casey, City Manager

ATTACHMENTS:

Description

Ordinance 6544

ORDINANCE NO. 6544

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTIONS 3.09.030 AND 3.09.040 OF CHAPTER 3.09 OF TITLE 3 OF THE ROSEVILLE MUNICIPAL CODE REGARDING
RETIREE MEDICAL INSURANCE OPTIONAL BENEFIT

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. Section 3.09.010 of Chapter 3.09 of Title 3 of the Roseville Municipal Code currently and will continue to read as follows:

3.09.010 Retiree medical insurance.

The city offers retiree medical insurance to former city employees through its contract with the California Public Employees Retirement System ("CalPERS"). Retiree medical insurance benefits are governed by the Public Employment Medical and Hospital Care Act ("PEMHCA") (California Government Code Section 22750). Under the PEMHCA, the city contributes a set amount towards retiree medical insurance premiums on a monthly basis. The amount of the city's contribution is the statutory minimum as prescribed by PEMHCA (PEMHCA minimum). Pursuant to Memoranda of Understanding ("MOUs") with various bargaining units, including the Management and Confidential Terms, Conditions and Understanding resolution, the city makes additional contributions to some retirees.

SECTION 2. Section 3.09.020 of Chapter 3.09 of Title 3 of the Roseville Municipal Code currently and will continue to read as follows:

3.09.020 Categories of current and former employees (current retirees) who qualify for the optional benefit.

Current and former city employees eligible for Tier 1 or Tier 2 retiree medical contributions (as defined in the applicable MOU under which they retired) will be permitted to waive participation in the retiree medical benefit described in their applicable MOU and opt in to the benefit described in Section 3.09.030 effective the 2017 Plan Year. Current and former city employees who do not exercise this option will remain eligible for and/or continue to receive their Tier 1 or Tier 2 city contribution, as defined by their applicable MOU.

A. Current Retirees. Generally, members who: (1) have retired from the city on or before December 31, 2015; (2) are currently eligible to receive city retiree medical benefits through the PEMHCA; and (3) qualify for either Tier 1 or Tier 2 retiree medical benefits under their applicable MOU, will be permitted to elect the benefit described in Section 3.09.030 instead of their MOU-defined city contribution. This election must occur prior to or during the open enrollment period for the 2017 Plan Year.

B. Current City Employees/Future Retirees. Current city employees who retire from the city after December 31, 2015, who: (1) qualify to receive PEMHCA medical benefits from the city; and (2) qualify as either Tier 1 or Tier 2 retiree medical benefits under their applicable

MOU, will be permitted to elect the benefits described in Section 3.09.030 instead of the applicable MOU-defined city contribution upon retirement. Members must elect to be subject to these benefits prior to the city's first retiree medical payment.

Those opting to receive benefits under Section 3.09.030 will be required to sign an Irrevocable Election Agreement waiving all rights to their former Tier 1 or Tier 2 city contribution and shall no longer be subject to any future changes to their MOU regarding Tier 1 or Tier 2 contributions. Current and former city employees who elect not to receive benefits under Section 3.09.030 will remain eligible for retiree medical benefits pursuant to state law and their applicable MOU. It is not the intent of this chapter to alter any local, state, and federal tax laws and any individual deciding whether to opt to receive benefits under this chapter is encouraged to consult with their tax advisor.

SECTION 3. Section 3.09.030 of Chapter 3.09 of Title 3 of the Roseville Municipal Code is hereby amended to read as follows:

3.09.030 Optional retiree medical benefit.

Effective January 1, 2017, current or former employees described in Section 3.09.020, who sign an Irrevocable Election Agreement electing to receive benefits under this section, will receive a monthly reimbursement by the city for retiree medical insurance premiums.

As described below, the city will reimburse a retiree for health care premiums paid to CalPERS, minus the PEMHCA minimum contribution amount. The PEMHCA minimum contribution is paid by the city directly to CalPERS on the retiree's behalf. The city does not make any payments on behalf of the retirees or reimbursements directly to retirees to cover any premiums or costs associated with Medicare. Retirees are solely responsible for making any and all necessary payments required for and paid directly to Medicare and the Social Security Administration.

A. Tier 1. Effective Plan Year 2017, retirees who qualify as Tier 1 pursuant to the applicable MOU will receive a city reimbursement for an amount up to $1,296.00 per month for retiree medical insurance premiums less the PEMHCA minimum. If the retiree medical insurance premium is less than $1,296.00 per month, the retiree will only be reimbursed the amount of the actual premium less the PEMHCA minimum.

For example, in 2017 the city's reimbursement amount is an amount up to $1,296.00 per month. If the retiree's medical benefit insurance premium is $800.00 per month, the city's reimbursement will be $800.00 per month less the PEMHCA minimum.

B. Tier 2. Effective Plan Year 2017, current or former employees who qualify as Tier 2 pursuant to the applicable MOU will receive a city reimbursement for a proportionate amount up to $1,296.00 per month less the PEMHCA minimum for retiree medical insurance premiums. The proportionate amount of reimbursement is based on total years of credited service as defined in the following chart. If the retiree medical insurance premium is less than the amount the retiree is eligible to receive, the retiree will only be reimbursed the amount of the actual premium less the PEMHCA minimum.

CITY TIER 2 VESTING SCHEDULE

Total Credited Years of Service	% of City Contribution
10	50%
11	55%
12	60%
13	65%
14	70%
15	75%
16	80%
17	85%
18	90%
19	95%
20+	100%

For example, in 2017, the city's maximum reimbursement amount is $1,296.00 per month. A retiree with 10 years of credited service is eligible to receive a reimbursement amount of up to $648.00 per month (50 percent of $1,296.00) less the PEMHCA minimum. A retiree with 15 years of credited service is eligible to receive a reimbursement amount of up to $972.00 per month (75 percent of $1,296.00) less the PEMHCA minimum. If the retiree, with 15 years of credited service, has a medical benefit insurance premium of $800.00 per month, the city's reimbursement will be $800.00 per month less the PEMHCA minimum.

For those opting to receive benefits under this section and effective January 1, 2018 and each subsequent January, the amount of the city's reimbursement will increase by two percent, rounded to the nearest dollar (for example, on January 1, 2018, the Tier 2 retiree with 10 years of service will qualify for a reimbursement of up to $661.00 less the PEMHCA minimum). Retirees are not eligible to receive any amount in excess of the actual retiree medical insurance premium. To receive and remain eligible for the city reimbursement, the retiree must be enrolled in a CalPERS health plan and subject to PEMHCA at all times.

SECTION 4. Section 3.09.040 of Chapter 3.09 of Title 3 of the Roseville Municipal Code is hereby amended to read as follows:

3.09.040 Notice of amendment.

For any individual who has submitted a completed Irrevocable Election Agreement pursuant to Section 3.09.020, the city shall provide such individual with a minimum of 60 calendar days advance written notice of any proposed amendment to this chapter. Such notice shall be sent by U.S. mail to the most recent known address of the individual on file with the city's department of human resources. The notice shall contain a summary of the proposed changes to this chapter. Amendment or repeal of this chapter by the city council shall be exercised by an affirmative vote of at least four-fifths of the membership of the city council.

SECTION 5. This ordinance shall be effective at the expiration of thirty (30) days from the date of adoption.

SECTION 6. 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 _____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

COUNCIL COMMUNICATION

CC #: 2255
File #: 0102-12

Title:	League of California Cities Annual Conference 2022 – Designation of Voting Delegate
Contact:	Mark Wolinski 916-774-5179 mwolinski@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.20.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council appoint by motion, Dennis Kauffman, Assistant City Manager/Chief Financial Officer, as the voting delegate and Mark Wolinski, Government Relations Administrator as the alternate voting delegate to the League of California Cities business meeting of the General Assembly. The annual business meeting will be held at noon on Friday, September 9, 2022.

BACKGROUND

The League of California Cities Annual Conference is being held September 7-9, 2022 in Long Beach, CA. The annual business meeting will be held at noon on Friday, September 9, 2022 when the membership takes action on resolutions that establish League policy.

In order to vote at the Annual Business Meeting, the City Council must designate a voting delegate. The 2022 Annual Conference Voting Delegate Form is then filed with the League confirming the voting delegate. (Attachment A). The League Designated voting delegates registered to attend the Annual Conference constitute the League's General Assembly. Voting during the business meeting is an important aspect of the conference where the membership takes action on conference resolutions. Annual conference resolutions guide cities and the League in efforts to improve the quality, responsiveness and vitality of local government in California.

FISCAL IMPACT

Registration and travel costs total approximately $1,600 per delegate and the funds were approved in the City Council’s and City Manager’s 2022/23 budgets.

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 designation of a voting delegate meets the above criteria and is not subject to CEQA. No additional environmental review is required.

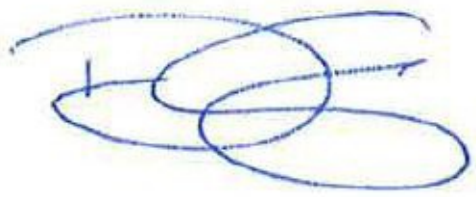
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal B - Support community engagement and advocacy

Respectfully Submitted,

Mark Wolinski, Government Relations Administrator

Megan Scheid, Deputy City Manager



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

League Voting Delegate Form 2022-Attachment A

LEAGUE OF CALIFORNIA CITIES

CITY: _____

2022 ANNUAL CONFERENCE
VOTING DELEGATE/ALTERNATE FORM

Please complete this form and return it to Cal Cities office by Friday, September 2, 2022. Forms not sent by this deadline may be submitted to the Voting Delegate Desk located in the Annual Conference Registration Area. Your city council may designate one voting delegate and up to two alternates.

To vote at the Annual Business Meeting (General Assembly), voting delegates and alternates must be designated by your city council. Please attach the council resolution as proof of designation. As an alternative, the Mayor or City Clerk may sign this form, affirming that the designation reflects the action taken by the council.

Please note: Voting delegates and alternates will be seated in a separate area at the Annual Business Meeting. Admission to this designated area will be limited to individuals (voting delegates and alternates) who are identified with a special sticker on their conference badge. This sticker can be obtained only at the Voting Delegate Desk.

1. VOTING DELEGATE

Name: _____

Title: _____

2. VOTING DELEGATE - ALTERNATE

Name: _____

Title: _____

3. VOTING DELEGATE - ALTERNATE

Name: _____

Title: _____

ATTACH COUNCIL RESOLUTION DESIGNATING VOTING DELEGATE AND ALTERNATES OR

ATTEST: I affirm that the information provided reflects action by the city council to designate the voting delegate and alternate(s).

Name: _____ Email _____

Mayor or City Clerk _____ Date _____ Phone _____
(circle one) (signature)

Please complete and return by Friday, September 2, 2022 to:
Darla Yacub, Assistant to the Administrative Services Director
E-mail: dyacub@calcities.org; Phone: (916) 658-8254

LEAGUE OF CALIFORNIA CITIES

Annual Conference Voting Procedures

1. **One City One Vote.** Each member city has a right to cast one vote on matters pertaining to Cal Cities policy.

2. **Designating a City Voting Representative.** Prior to the Annual Conference, each city council may designate a voting delegate and up to two alternates; these individuals are identified on the Voting Delegate Form provided to the Cal Cities Credentials Committee.

3. **Registering with the Credentials Committee.** The voting delegate, or alternates, may pick up the city's voting card at the Voting Delegate Desk in the conference registration area. Voting delegates and alternates must sign in at the Voting Delegate Desk. Here they will receive a special sticker on their name badge and thus be admitted to the voting area at the Business Meeting.

4. **Signing Initiated Resolution Petitions**. Only those individuals who are voting delegates (or alternates), and who have picked up their city's voting card by providing a signature to the Credentials Committee at the Voting Delegate Desk, may sign petitions to initiate a resolution.

5. **Voting.** To cast the city's vote, a city official must have in their possession the city's voting card and be registered with the Credentials Committee. The voting card may be transferred freely between the voting delegate and alternates, but may not be transferred to another city official who is neither a voting delegate or alternate.

6. **Voting Area at Business Meeting.** At the Business Meeting, individuals with a voting card will sit in a designated area. Admission will be limited to those individuals with a special sticker on their name badge identifying them as a voting delegate or alternate.

7. **Resolving Disputes**. In case of dispute, the Credentials Committee will determine the validity of signatures on petitioned resolutions and the right of a city official to vote at the Business Meeting.

LEAGUE OF CALIFORNIA CITIES

Council Action Advised by August 31, 2022

DATE: June 1, 2022

TO: City Managers and City Clerks

RE: DESIGNATION OF VOTING DELEGATES AND ALTERNATES
League of California Cities Annual Conference & Expo – September 7-9, 2022

Cal Cities 2022 Annual Conference & Expo is scheduled for September 7-9, 2022 in Long Beach. An important part of the Annual Conference is the Annual Business Meeting (during General Assembly) on Friday, September 9. At this meeting, Cal Cities membership considers and acts on resolutions that establish Cal Cities policy.

In order to vote at the Annual Business Meeting, your city council must designate a voting delegate. Your city may also appoint up to two alternate voting delegates, one of whom may vote if the designated voting delegate is unable to serve in that capacity.

Please complete the attached Voting Delegate form and return it to Cal Cities office no later than Friday, September 2. This will allow us time to establish voting delegate/alternate records prior to the conference.

Please view Cal Cities' event and meeting policy in advance of the conference.

- **Action by Council Required.** Consistent with Cal Cities bylaws, a city's voting delegate and up to two alternates must be designated by the city council. When completing the attached Voting Delegate form, please attach either a copy of the council resolution that reflects the council action taken, or have your city clerk or mayor sign the form affirming that the names provided are those selected by the city council. Please note that designating the voting delegate and alternates **must** be done by city council action and cannot be accomplished by individual action of the mayor or city manager alone.

- **Conference Registration Required.** The voting delegate and alternates must be registered to attend the conference. They need not register for the entire conference; they may register for Friday only. Conference registration will open by June 1 on the Cal Cities website. In order to cast a vote, at least one voter must be present at the Business Meeting and in possession of the voting delegate card. Voting delegates and alternates need to pick up their conference badges before signing in and picking up the voting delegate card at the Voting Delegate Desk. This will enable them to receive the special sticker on their name badges that will admit them into the voting area during the Business Meeting.

LEAGUE OF CALIFORNIA CITIES

- **Transferring Voting Card to Non-Designated Individuals Not Allowed.** The voting delegate card may be transferred freely between the voting delegate and alternates, but *only* between the voting delegate and alternates. If the voting delegate and alternates find themselves unable to attend the Business Meeting, they may *not* transfer the voting card to another city official.

- **Seating Protocol during General Assembly.** At the Business Meeting, individuals with the voting card will sit in a separate area. Admission to this area will be limited to those individuals with a special sticker on their name badge identifying them as a voting delegate or alternate. If the voting delegate and alternates wish to sit together, they must sign in at the Voting Delegate Desk and obtain the special sticker on their badges.

The Voting Delegate Desk, located in the conference registration area of the Long Beach Convention Center, will be open at the following times: Wednesday, September 7, 8:00 a.m. – 6:00 p.m.; Thursday, September 8, 7:00 a.m. – 4:00 p.m.; and Friday, September 9, 7:30 a.m.–12:30 p.m. The Voting Delegate Desk will also be open at the Business Meeting on Friday, but will be closed during roll calls and voting.

The voting procedures that will be used at the conference are attached to this memo. Please share these procedures and this memo with your council and especially with the individuals that your council designates as your city's voting delegate and alternates.

Once again, thank you for completing the voting delegate and alternate form and returning it to Cal Cities office by Friday, September 2. If you have questions, please call Darla Yacub at (916) 658-8254.

Attachments:
- Annual Conference Voting Procedures
- Voting Delegate/Alternate Form

COUNCIL COMMUNICATION

CC #: 2270
File #: 0102-12

Title:	League of California Cities Annual Conference 2022 - Resolution Consideration
Contact:	Mark Wolinski 916-774-5179 mwolinski@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.21.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council directs the City's voting delegate to support the League of California Cities resolution at its 2022 Annual Conference Business Meeting in Long Beach (Attachment A) – Resolution (page 5).

The resolution provides amendments to the League of California Cities to ensure the organization can function at the highest level and be responsive to its members in the most effective manner possible. After the League undertook a thorough strategic planning process that resulted in the adoption of the "Powering Up for California Cities Strategic Growth Plan 2018-2021," the League's Board implemented a series of amendments to its bylaws last year. Those changes were approved during the 2021 Annual Conference Business Meeting. The amendments being requested this year are a continuation of updating the bylaws to ensure Cal Cities is enhancing its governance capabilities and meeting the diverse needs of its members.

BACKGROUND

This year, the League of California Cities Annual Conference is being held September 7-9, 2022 in Long Beach, CA. The annual business meeting will be held at noon on Friday, September 9, 2022 when the membership takes action on resolutions that establish League policy. Designated voting delegates or their alternates registered to attend the Annual Conference constitute the League's General Assembly. At the August 17, 2022 City Council meeting, the Council appointed Assistant City Manager/Chief Financial Officer Dennis Kauffman, as the City's voting delegate and Government Relations Administrator, Mark Wolinski, as the alternate voting delegate.

Designated voting delegates registered to attend the Annual Conference constitute the League's General Assembly. Voting during the business meeting is an important aspect of the conference where the membership takes action on conference resolutions. Annual conference resolutions guide cities and the League in efforts to improve the quality, responsiveness and vitality of local government in California.

DISCUSSION

The League of California Cities has identified one resolution to be considered at the upcoming

annual conference. The following is a brief description of the resolutions including staff's recommendations:

Resolution - (Recommended Position: Approve) – On July 15, 2022, the League of California Cities (Cal Cities) Board of Directors (Board) voted to present proposed bylaws amendments to the General Assembly at the 2022 Cal Cities Annual Conference and Expo.

Beginning in 2017, the Board directed Cal Cities to undertake a strategic planning process that resulted in the adoption of the "Powering Up for California Cities Strategic Grown Plan 2018-2021" (Strategic Growth Plan).

The Strategic Growth Plan set forth goals to enhance Cal Cities' governance to:
a) Achieve even higher levels of engagement and effectiveness;
b) Ensure optimal engagement by members and effectiveness in supporting fulfillment of the Cal Cities' mission; and
c) Ensure the pathway to leadership is transparent and inclusive.

In furtherance of its governance goals, the Board engaged an association governance consultant (Consultant) to evaluate the Cal Cities governance system and make recommendations for enhancing Cal Cities' governance. The Consultant gathered and considered input from more than 350 Cal Cities members through advisory groups, roundtable discussions, interviews, and surveys. On July 8, 2021, the Consultant produced a report (Governance Report) detailing 49 recommendations to the Board to deepen the engagement of Cal Cities Member Cities and ensure Cal Cities' governance is operating at peak performance.

The Governance Report included findings indicating that Cal Cities is a strong organization, with a high level of member engagement, but also highlighted opportunities for Cal Cities to enhance its governance. The opportunities for enhancement included:
a) Improving the clarity, ease, and consistency in how the governance system works;
b) Clarifying the guidelines for position qualifications and performance expectations;
c) Identifying ways to deepen member engagement and enhance the quality of the experience of involvement; and
d) Ensuring Cal Cities has an intentional, consistent organizational culture at all levels of the governance system.

The findings and recommendations from the Governance Report were presented to the Board during the July 2021 Board meeting. Following a robust exchange of ideas and input, the Board decided to move forward with many of the recommendations, referred other recommendations to a "to be established" board subcommittee for further study, and deferred consideration of the remaining recommendations.

The Board approved the recommendations and in September 2021, during the Cal Cities Annual Conference and Expo, the General Assembly voted to approve the following bylaws amendments:

1. Adjust the composition of the Board to achieve a higher impact and be more representative by adding Director seats to the Board for each of the five Diversity Caucuses, and transitioning members of the National League of Cities Board from Cal Cities Directors to one non-voting advisor to the Cal Cities Board.

2. Recognize the Cal Cities Diversity Caucuses in the Cal Cities bylaws to reflect the full

contribution the caucuses make to Cal Cities' mission and vision.

Those amendments became effective on Nov. 24, 2021.

The Governance Committee met in April 2022, and following engaging and productive discussions, brought forward to the Board at its May 2022 meeting several recommendations to further enhance Cal Cities' governance. Among the recommendations approved by the Board during that meeting are two that require bylaws amendments:

1. Formalize oversight of the Resolutions Committee by establishing the Second Vice President as the chair of the committee, while retaining the President's authority to appoint the vice chair of the committee.

2. To ensure a more inclusive Nominating Committee, add one committee member appointed from among the Caucus Directors and one additional committee member appointed from among the At-Large Directors for a total of 13 committee members.

In addition to those recommendations identified by the Governance Committee and approved by the Board, Cal Cities staff identified various non-substantive revisions to the Cal Cities bylaws:

1. Clarify that, unless the Board establishes otherwise, the Cal Cities President appoints the chair of Board-established committees.

2. To avoid confusion and clarify organizational responsibilities, remove "Treasurer" from the title of the Second Vice President.

3. To promote consistency, replace the term "Board member(s)" with "Director(s)."

On July 15, 2022, the Board voted to present these proposed bylaws amendments to the General Assembly at the 2022 Cal Cities Annual Conference and Expo.

Procedure for Amending the Cal Cities Bylaws
Amendments to the Cal Cities bylaws may be proposed by the Cal Cities Board and may be adopted: (a) by vote of the Cal Cities General Assembly, or (b) by mail ballot to Member Cities. In this case, the amendments will be considered by the General Assembly. Bylaws amendments need to be approved by 2/3 of those voting, and the number that constitutes 2/3 of those voting (a) cannot be less than a majority of the voting delegates present if there is a quorum at the time the vote is taken; or (b) cannot be less than a majority of a quorum if the meeting started with a quorum but a quorum is not present when the vote is taken.

If approved by the General Assembly, the amendments to the bylaws will go into effect after the expiration of a 60-day protest period. If, within 60 days after the adoption of the amendments, one-third or more of Member Cities submit a written protest against such amendments, the amendments are automatically suspended until the next Annual Conference and Expo, when they may be taken up again for reconsideration and vote. If the amendments are approved by the General Assembly and no protest is lodged, the effective date of the bylaws amendments will be Nov. 9, 2022.

Staff recommendation: The City supports the approval of this resolution as it provides amendments to the League of California Cities Bylaws to ensure the organization can function at the highest level and be responsive to its members in the most effective manner possible. After a

thorough strategic planning process that resulted in the adoption of the “Powering Up for California Cities Strategic Growth Plan 2018-2021” the League’s Board implemented a series of amendments to their bylaws last year. Those changes were approved during the 2021 Annual Conference Business Meeting. The amendments being requested this year are a continuation of updating the bylaws to ensure Cal Cities is enhancing its governance capabilities and meeting the diverse needs of its members.

FISCAL IMPACT

There is no financial impact associated with this action.

ENVIRONMENTAL REVIEW

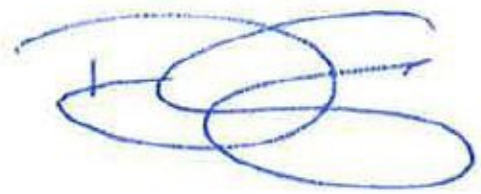
The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment (CEQA Guidelines §I 5061 (b) (3). Stating policy priorities does not include the potential for a significant environmental effect, and therefore is not subject to CEQA.

CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Respectfully Submitted,

Mark Wolinski, Government Relations Administrator

Megan Scheid, Deputy City Manager



_____

Dominick Casey, City Manager

ATTACHMENTS:

Description

Bylaws Packet



2022 Annual Conference and Expo

PROPOSED BYLAWS AMENDMENTS

General Assembly
September 9, 2022

LEAGUE OF CALIFORNIA CITIES

2021-2022 CAL CITIES OFFICERS

President
Cindy Silva
Mayor Pro Tem, Walnut Creek

First Vice President
Ali Taj
Council Member, Artesia

Second Vice President
Daniel Parra
Council Member, Fowler

Immediate Past President
Cheryl Viegas Walker
Council Member, El Centro

Executive Director and CEO
Carolyn M. Coleman

August 2022

To: Cal Cities General Assembly
From: Cindy Silva, President
Carolyn Coleman, Executive Director and CEO
Re: Proposed Cal Cities Bylaws Amendments

On July 15, 2022, the League of California Cities (Cal Cities) Board of Directors (Board) voted to present proposed bylaws amendments to the General Assembly at the 2022 Cal Cities Annual Conference and Expo. This memorandum outlines the history of the proposed amendments, summarizes the amendments, and provides an explanation of the process for adopting amendments to the bylaws.

Background

Beginning in 2017, the Board directed Cal Cities to undertake a strategic planning process that resulted in the adoption of the "Powering Up for California Cities Strategic Grown Plan 2018-2021" (Strategic Growth Plan). The Strategic Growth Plan set forth goals to enhance Cal Cities' governance to: (a) achieve even higher levels of engagement and effectiveness; (b) ensure optimal engagement by members and effectiveness in supporting fulfillment of the Cal Cities' mission; and (c) ensure the pathway to leadership is transparent and inclusive.

In furtherance of its governance goals, the Board engaged an association governance consultant (Consultant) to evaluate the Cal Cities governance system and make recommendations for enhancing Cal Cities' governance. The Consultant gathered and considered input from more than 350 Cal Cities members through advisory groups, roundtable discussions, interviews, and surveys. On July 8, 2021, the Consultant produced a report (Governance Report) detailing 49 recommendations to the Board to deepen the engagement of Cal Cities Member Cities and ensure Cal Cities' governance is operating at peak performance.

The Governance Report included findings indicating that Cal Cities is a strong organization, with a high level of member engagement, but also highlighted opportunities for Cal Cities to enhance its governance. The opportunities for enhancement included: (a) improving the clarity, ease, and consistency in how the governance system works; (b) clarifying the guidelines for position qualifications and performance expectations; (c) identifying ways to deepen member engagement and enhance the quality of the experience of involvement; and (d) ensuring Cal Cities has an intentional, consistent organizational culture at all levels of the governance system.

The findings and recommendations from the Governance Report were presented to the Board during the July 2021 Board meeting. Following a robust exchange of ideas and input, the Board decided to move forward with many of the recommendations, referred other recommendations to a "to be established" board subcommittee for further study, and deferred consideration of the remaining recommendations.

Following Board approval, in September 2021 during the Cal Cities Annual Conference and Expo, the General Assembly voted to approve the following bylaws amendments:

1. Adjust the composition of the Board to achieve a higher impact and be more representative by adding Director seats to the Board for each of the five Diversity Caucuses, and transitioning members of the National League of Cities Board from Cal Cities Directors to one non-voting advisor to the Cal Cities Board.

2. Recognize the Cal Cities Diversity Caucuses in the Cal Cities bylaws to reflect the full contribution the caucuses make to Cal Cities' mission and vision.

Those amendments became effective on Nov. 24, 2021.

Among the recommendations the Board decided was a priority to move forward was the establishment of a standing Governance Committee to assist the Board in fulfilling its governance function.

At its February 2022 meeting, the Board voted to approve Board policy establishing the Governance Committee with the task of regularly reviewing the governance structures, policies, and practices of Cal Cities and reporting its findings and recommendations to the Board. The Board also approved a one-year work plan for the Governance Committee that established priority governance issues to focus on in its first year.

Following the Board meeting, President Cindy Silva appointed the following Board members to serve on the Governance Committee:

- Cheryl Viegas Walker, Immediate Past President and Council Member, El Centro, Chair
- Walt Allen, Council Member, Covina
- Jan Arbuckle, Vice Mayor, Grass Valley
- LaTanya Bellow, Deputy City Manager, Berkeley
- Pippin Dew, Council Member, Vallejo
- Lynne Kennedy, Mayor Pro Tem, Rancho Cucamonga
- Karen Goh, Mayor, Bakersfield
- Jim Lewis, City Manager, Pismo Beach
- Lisa Middleton, Mayor, Palm Springs
- John Minto, Mayor, Santee
- David Pollock, Council Member, Moorpark

The Governance Committee met in April 2022, and following engaging and productive discussions, brought forward to the Board at its May 2022 meeting several recommendations to further enhance Cal Cities' governance. Among the recommendations approved by the Board during that meeting are two that require bylaws amendments:

1. Formalize oversight of the **Resolutions Committee** by establishing the Second Vice President as the chair of the committee, while retaining the President's authority to appoint the vice chair of the committee.

2. To ensure a more inclusive **Nominating Committee**, add one committee member appointed from among the Caucus Directors and one additional committee member appointed from among the At-Large Directors for a total of 13 committee members.[1]

In addition to those recommendations identified by the Governance Committee and approved by the Board, Cal Cities staff identified various non-substantive revisions to the Cal Cities bylaws:

1. Clarify that, unless the Board establishes otherwise, the **Cal Cities President appoints the chair of Board-established committees**.

2. To avoid confusion and clarify organizational responsibilities, remove "Treasurer" from the **title of the Second Vice President**.[2]

3. To promote consistency, replace the term "Board member(s)" with "**Director(s)**."[3]

On July 15, 2022, the Board voted to present these proposed bylaws amendments to the General Assembly at the 2022 Cal Cities Annual Conference and Expo.

While the work to enhance Cal Cities' governance is a process being implemented in phases over several years, the Board believes these proposed amendments constitute important next steps toward ensuring Cal Cities' governance is operating at peak performance.

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[1] Under the current bylaws, the Nominating Committee is comprised of 11 Directors. Two committee members are appointed from among At-Large Directors and one from a Department. Divisions participate on a rotation, with Directors residing within eight of the Divisions appointed in even-numbered years and Directors from the other eight appointed in odd-numbered years.

[2] Under the current bylaws, the Second Vice President is referred to as "Second Vice President/Treasurer." However, in practice the Second Vice President does not serve as treasurer of Cal Cities. Rather, that function is performed by the Chief Financial Officer designated in Article VIII, section 5, subdivision b(2), of the Cal Cities bylaws.

[3] The current bylaws primarily refer to members of the Cal Cities Board of Directors as "Directors." However, there are instances in which they are referred to as "Board members."

Procedure for Amending the Cal Cities Bylaws

Amendments to the Cal Cities bylaws may be proposed by the Cal Cities Board and may be adopted: (a) by vote of the Cal Cities General Assembly, or (b) by mail ballot to Member Cities.[4] In this case, the amendments will be considered by the General Assembly. Bylaws amendments need to be approved by 2/3 of those voting,[5] and the number that constitutes 2/3 of those voting (a) cannot be less than a majority of the voting delegates present if there is a quorum at the time the vote is taken;[6] or (b) cannot be less than a majority of a quorum if the meeting started with a quorum but a quorum is not present when the vote is taken.[7]

If approved by the General Assembly, the amendments to the bylaws will go into effect after the expiration of a 60-day protest period.[8] If, within 60 days after the adoption of the amendments, one-third or more of Member Cities submit a written protest against such amendments, the amendments are automatically suspended until the next Annual Conference and Expo, when they may be taken up again for reconsideration and vote.[9] If the amendments are approved by the General Assembly and no protest is lodged, the effective date of the bylaws amendments will be Nov. 9, 2022.

[4] Article XVII, Section 1.
[5] Article XVII, Section 2.
[6] Cal. Corp. Code 7512, subd. (a).
[7] Cal. Corp. Code 7512, subd. (d).
[8] Article XVII, section 6.
[9] Article XVII, section 7.

RESOLUTION RELATING TO AMENDMENTS TO THE CAL CITIES BYLAWS
(2/3 vote at General Assembly required to approve)

Source: *League of California Cities Board of Directors*

WHEREAS, the League of California Cities (Cal Cities) is a nonprofit mutual benefit corporation under California law and, as such, is governed by corporate bylaws; and

WHEREAS, the Cal Cities Board of Directors (Board) periodically reviews the Cal Cities bylaws for issues of clarity, practicality, compliance with current laws, and responsiveness to membership needs and interests; and

WHEREAS, beginning in 2017, the Board directed Cal Cities to undertake a strategic planning process that resulted in the adoption of the "Powering Up for California Cities Strategic Growth Plan 2018-2021" (Strategic Growth Plan); and

WHEREAS, the Strategic Growth Plan set forth goals to enhance Cal Cities' governance to: (a) achieve even higher levels of engagement and effectiveness; (b) ensure optimal engagement by members and effectiveness in supporting fulfillment of the Cal Cities' mission; and (c) ensure the pathway to leadership is transparent and inclusive; and

WHEREAS, in furtherance of its governance goals, the Board engaged an expert in association governance who gathered and considered input from more than 350 Cal Cities members through advisory groups, roundtable discussions, interviews, and surveys to evaluate the Cal Cities governance system and make recommendations for enhancing Cal Cities' governance; and

WHEREAS, in July 2021 the Board decided to move forward with certain recommendations made as a result of that governance evaluation, including a recommendation to establish a standing Governance Committee of the Board to assist the Board in fulfilling its governance function; and

WHEREAS, in February 2022 the Board approved Board policy establishing the Governance Committee and charging it with regularly reviewing the governance structures, policies, and practices of Cal Cities, and reporting its findings and making recommendations to the Board; and

WHEREAS, in 2022 the Governance Committee recommended, and the Board, approved certain changes to the bylaws that: (1) formalize the oversight of the Resolutions Committee; (2) ensure a more inclusive Nominating Committee by adding one committee member appointed from among Caucus Directors and one additional committee member appointed from among At-Large Directors; (3) clarify that, unless the board establishes otherwise, the Cal Cities President appoints the chair of board-established committees; and (4) make various non-substantive revisions; and

WHEREAS, the Cal Cities Board offers the following proposed amendments and additions to the bylaws, as set forth in the attached redlined version of the bylaws specified below, which is hereby incorporated by reference:

1. Amend Article VI, section 3(c) to designate the Second Vice-President as the Resolutions Committee chair, while retaining the President's authority to appoint the vice chair of the Resolutions Committee;
2. Amend Article VII, section 5(b) to adjust the composition of the Nominating Committee by adding one At-Large Director and one Caucus Director for a total of 13 Nominating Committee members;
3. Amend Article VII, Section 10(d) to provide that, *unless the Board establishes otherwise*, the Cal Cities President appoints the chair of board-established committees;
4. Replace the title "Second Vice-President/Treasurer" with "Second Vice President" in Article VII, sections 2(a), 5(e), and 10(b); and Article VIII, sections 1, 2(c), and 4;
5. Replace the term "board member(s)" with "Director(s)" in Article VII, sections 5(b), 5(e), and 8; Article XII, section 5(c); and Article XV, section 4; and

now therefore, be it

RESOLVED, by the General Assembly of the League of California Cities assembled during the Annual Conference in Long Beach on September 9, 2022, that the proposed bylaws amendments are hereby approved and Cal Cities shall make the specified amendments to the Cal Cities bylaws set forth in the attached redlined version of the bylaws.

See ATTACHMENT 1 for redline of proposed changes to the bylaws.

ATTACHMENT 1
Redline of Proposed Changes to Bylaws

Bylaws for the
League of California Cities

…

Article VI. Resolutions

…

Section 3: Resolutions Committee for Annual Conference Resolutions.

(a) Resolutions Committee Composition. The Cal Cities President establishes a Resolutions Committee sixty days prior to each Annual Conference, which committee shall consist of:

(i) One elected official from each regional division, appointed by the regional division;

(ii) One elected official from each policy committee, appointed by the policy committee;

(iii) One member from each functional department, appointed by the department;

(iv) One elected official from each caucus, appointed by the caucus; and

(v) Up to ten additional members (at least five of whom are elected officials) as the Cal Cities President deems necessary to achieve geographic and population balance, as well as recognize the multiplicity of city functions not represented by the other appointments, including, but not limited to, the perspectives of board and commission members as well as professional staff.

(b) Presidential Appointments. In the event a regional division, policy committee, functional department, or caucus does not make its appointment to the Resolutions Committee, the Cal Cities President may make the appointment on the regional division's, policy committee's, functional department's, or caucus's behalf.

(c) Chair. The Cal Cities ~~President shall also appoint to the Resolutions Committee a committee chair and vice chair~~Second Vice-President shall serve as committee chair. The Cal Cities President shall also appoint to the Resolutions Committee a vice chair.

(d) Minimum Committee Size and Composition. In the event the full committee is not in attendance at the Annual Conference, the Cal Cities President shall appoint a sufficient number of city officials in attendance to achieve a total of thirty. No less than two-thirds of the members of the Resolutions Committee shall be elected officials.

(e) Committee Consideration of Proposed Resolutions. Except for resolutions of courtesy, commendation, appreciation or condolence, no resolution expressing the opinion or policy of Cal Cities on any question may be considered or discussed by Cal Cities' General Assembly, unless it has been first submitted to, and reported on, by the Resolutions Committee.

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Article VII: Board of Directors

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Section 2: Composition.

The Cal Cities Board is composed of the following:

(a) A President, First Vice-President and Second Vice-President~~/Treasurer~~, who each serve a term of one year;

(b) The Immediate Past President who serves for a term of one year, immediately succeeding his or her term as President;

(c) Twelve Directors-at-Large,

(i) Who serve staggered two-year terms, and

(ii) At least one of whom is a representative of a small city with a population of 10,000 or less;

(d) One Director to be elected from each of the regional divisions, functional departments, and caucuses of Cal Cities, each of whom serves for a term of two years; and

(e) Ten Directors that may be designated by the mayors of each of the ten largest cities in California to serve two-year terms.

(f) For purposes of this section, the population of each city is the most current population as determined by the California Department of Finance, Demographic Research Unit, or its successor agency or unit. If no successor agency or unit is named, the most current population used to determine these dues shall be used to determine future dues until such time as these bylaws are amended to designate a new source for determining city population.

(g) Directors hold office until their successors are elected and qualified.

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Section 5: Nomination Process.

(a) Timing. The Cal Cities President, with the concurrence of the Cal Cities Board, shall establish a nominating committee at the first Board meeting of the calendar year in which the election is to occur.

(b) Composition. The nominating committee shall be comprised of ~~eleven~~ thirteen ~~Board members~~Directors. Three~~Two~~ nominating committee members shall be At-Large Directors, ~~and~~ one shall represent a functional department, and one shall represent a caucus. Regional divisions shall be represented on the nominating committee on the following rotating basis:

(i) Even-Numbered Years: In even-numbered years, the Central Valley, Imperial County, Monterey Bay, North Bay, Orange County, Redwood Empire, Sacramento Valley and San Diego County Regional Divisions shall be represented on the nominating committee.

(ii) Odd-Numbered Years: In odd-numbered years, the Channel Counties, Inland Empire, Desert-Mountain, East Bay, Los Angeles County, Peninsula, Riverside County, and South San Joaquin Regional Divisions shall be represented on the nominating committee.

(c) Nominating Committee Chair. The Cal Cities President shall appoint the chair of the nominating committee.

(d) Candidates for Positions Ineligible. Candidates for officer and at-large positions on the Cal Cities Board are not eligible to serve on the nominating committee. In the event a regional division representative on the nominating committee wishes to be a candidate for an officer or at-large position, the Cal Cities President will appoint a substitute nominating committee member from the same regional division, if available. If one is not available, the President shall appoint a substitute from a nearby regional division.

(e) Duties. The duties of the nominating committee are to:

(i) Member Outreach. Publicize the qualifications for the offices of Second ~~Vice~~ Vice-President~~/Treasurer~~ and the at-large members of the Cal Cities Board to Cal Cities' Member Cities;

(ii) At-Large and Second Vice-President Recommendations. Make recommendations to the Cal Cities Board on the following year's Cal Cities officers and at-large ~~board members~~Directors; and

(iii) President and First Vice President Recommendation. Recommend whether the previous year's First Vice President

becomes President and the previous year's Second Vice-President~~/Treasurer~~ becomes First Vice President.

(f) Notice to Members. An explanation of the nomination process and relevant deadlines for submitting nominations to the nominating committee shall be publicized in Cal Cities publications and communications throughout the year, along with the identity of nominating committee members once such members are appointed. In addition, the nominating committee shall inform the membership of the opening of the nominations for the following year when it makes its report to the general membership as provided in Article VI, Section 5(g) below.

(g) Decision and Report. The nominating committee's recommendations shall be communicated to the Cal Cities Board not later than 30 days prior to the date of Cal Cities' Annual Conference and again at the Annual Conference. In addition, the nominating committee shall make its report to the membership at the opening general session of the Annual Conference.

(h) Election. The election of Cal Cities Board officers and Directors-at-Large shall occur at a Cal Cities Board meeting at the Annual Conference as provided in Article VII, Section 4(c) and Article VII, section 3.

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Section 8: Meetings and Meeting Notice.

(a) Regularly Scheduled Board Meetings. The Cal Cities Board shall meet no fewer than four times a year. Notice of regularly scheduled Board meetings shall be mailed to each Director at least 14 days before any such meeting.

(b) Emergency Board Meetings. A good faith effort shall be made to provide notice of any emergency board meetings (for example, by first-class mail, personal or telephone notification, including a voice messaging system or other system or technology designed to record and communicate messages, telegraph, facsimile, electronic mail, or other electronic means).

(c) Telephonic or Electronic Participation. Members of the Cal Cities Board may participate in any meeting through the use of conference telephone or similar communications equipment, so long as all members participating in such meeting can hear one another. Participation in a meeting by this means constitutes presence in person at such meeting.

(d) Notice Content. All meeting notices shall include the meeting date, place, time, and, as applicable, the means by which a Cal Cities ~~Board member~~Director may participate electronically.

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Section 10: Committees.

(a) General. The Cal Cities Board may establish committees to study city problems, advise on Cal Cities educational efforts, make recommendations with respect to Cal Cities advocacy efforts, or to engage in other appropriate Cal Cities service.

(b) Executive Committee.

(i) Composition. The Executive Committee of the Cal Cities Board consists of the following: the Cal Cities President, First Vice-President, Second Vice-President~~/Treasurer~~, Immediate Past President and Executive Director.

(ii) Authority. The Executive Committee has authority to act for the Cal Cities Board between Board meetings, provided that no action of the Executive Committee is binding on the Cal Cities Board unless authorized or approved by the Board.

(c) Standing Policy Committees.

(i) Charge. Cal Cities shall have a series of standing policy committees, whose charge shall be to make recommendations to the Cal Cities Board on matters within the committees' jurisdiction, as well as fulfill other duties specified in these bylaws (see, for example, Article VI, section 4(b)).

(ii) Membership. Each Cal Cities Policy Committee shall be comprised of the following:

- Two members appointed by each regional division president;
- One member appointed by each functional department president;
- One member appointed by each caucus president;
- No more than 16 members appointed by the Cal Cities President, to provide population and geographic balance, as well as expertise; and
- Such representatives of affiliate organizations in the capacity authorized by the Cal Cities Board.

(iii) Feedback. Policy committees shall receive information on actions taken on committee recommendations and the reasons for those actions.

(d) Committee Chairs and Vice Chairs. Unless the Cal Cities Board establishes otherwise, ~~T~~the Cal Cities President appoints the chair of all Cal-Cities-wide committees. The term of such appointments coincides with the Cal Cities President's term. The Cal Cities President may appoint vice chairs for such committees, as the Cal Cities President deems necessary.

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Article VIII: Officers

Section 1: Identity.

The officers of Cal Cities are a President, a First Vice-President, a Second Vice-President~~/Treasurer~~, an Immediate Past President, and an Executive Director.

Section 2: Duties of Cal Cities Officers.

(a) President. The President presides at all Cal Cities Board meetings and all General Assemblies. The President has such other powers and duties as may be prescribed by these bylaws or the Cal Cities Board.

(b) First Vice-President. The First Vice-President carries on the duties of the President in the President's temporary absence or incapacity. The First Vice-President has such other powers and duties as may be prescribed by these bylaws or the Cal Cities Board.

(c) Second Vice-President~~/Treasurer~~. The Second Vice-President~~/Treasurer~~ carries on the duties of the President in the President's and First Vice-President's temporary absence or incapacity. The Second Vice-President~~/Treasurer~~ has such other powers and duties as may be prescribed by these bylaws or the Cal Cities Board.

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Section 4: Vacancies.

A vacancy in the office of President is filled by the Immediate Past President who shall serve for the unexpired term of office and, upon election of a new President at the next Annual Conference, shall subsequently serve a full term as Immediate Past President. In the event the Immediate Past President is not available to fill the vacancy in the office of the President, or declines in writing, it shall be filled by the succession of the First Vice-President to that office. A vacancy in the office of First Vice-President, or Second Vice-President~~/Treasurer~~, is filled for the un-expired term by appointment by the Cal Cities Board of a member of the Cal Cities Board. A vacancy in the office of the Immediate Past President is filled for the un-expired term by the last Past President continuing to hold a city office.

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Article XII: Voting

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Section 5: Mail Balloting.

In addition to voting at Cal Cities meetings, Cal Cities may solicit member input by mail ballot.

(a) Mailing.[10] The question(s) to be voted upon, along with explanatory materials and a ballot, shall be mailed by first class mail to each Member City for consideration and action.

(b) Time Frame for Action. Member Cities shall have at least 45 days to cast their vote. Ballots shall be cast by returning the Member City's ballot to Cal Cities' principal office in Sacramento.

(c) Ballot Tabulation and Results Announcement. The Cal Cities President will appoint a counting committee of three ~~board members~~Directors to count the votes cast by mail ballot. The counting committee will submit its count to the Cal Cities Board, which shall canvass the vote and announce the results.

(d) Functional Departments, Regional Divisions, and Caucuses. Departments, divisions, and caucuses may also use mail balloting under procedures specified in their respective bylaws.

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Article XV: Prohibited Transactions

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Section 4: Ethical Considerations.

These restrictions, of course, represent the floor, not the ceiling, for ethical conduct as a Cal Cities ~~board member~~Director or policy committee member. If a ~~board member~~Director or policy committee member believes that there are circumstances under which Cal Cities' members might reasonably question the ~~board member's~~Director's or policy committee member's ability to act solely in the best interests of Cal Cities and its member cities, the prudent course is to abstain. As an example, typically Cal Cities ~~board members~~Directors have abstained from participating in decisions on legislation that would affect organizations for which they work. Another example is legislation that would uniquely benefit a ~~board member's~~Director's city. Policy committee members should also consider abstaining in similar circumstances.

[10] The Administrative Services Committee recommends Cal Cities also include notice of the upcoming ballot in a variety of Cal Cities communications to alert Member Cities to make inquiry in the event a city's ballot is lost in the mail.

COUNCIL COMMUNICATION

CC #: 2263
File #: 0721

Title: Roseville Transit Service Changes
Contact: Ed Scofield 916-774-5449 ecscofield@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 6.22.

RECOMMENDATION TO COUNCIL

Staff recommends the City Council approve Roseville Transit's proposed service changes for Fixed Route and Commuter Services.

BACKGROUND

In March of 2019 the City Council approved the Roseville Transit Short Range Transit Plan (SRTP). The SRTP identifies a number of options to improve transit services in Roseville. The SRTP recommendations related to the service changes discussed in this report include: 1) streamlining the C, E, F & G routes as shown on SRTP Figure 32 (Attachment 1); and 2) adding commuter bus service due to the high levels of commuter ridership at that time.

With the onset of the COVID-19 pandemic in March of 2020, Roseville Transit, along with transit agencies throughout the nation, experienced significant reductions in transit ridership that ultimately resulted in temporary service reductions. These service reductions were implemented with the hope that the COVID-19 and its ridership impacts would be short-lived and that service would return to pre-COVID conditions soon after implementation. Specifically, the following service changes were implemented:

- Commuter Service: On April 6, 2020, in response to low ridership due to employees working remotely, Roseville Transit temporarily suspended seven Commuter routes. Thirteen remaining Commuter routes did not change.

- Local Service: On May 26, 2020, with Sierra College practicing distance learning, Roseville Transit temporarily suspended the E and G routes and re-allocated those buses to the C and F routes to increase service frequency from every 2 hours to once per hour.

While Roseville Transit ridership continues to slowly increase, ridership remains below pre-COVID-19 levels. Because the service modifications have been in effect for more than a year, Roseville Transit opened up a 30-day public comment period from June 17, 2022 to July 19, 2022 and held a public hearing on July 19, 2022 at the City Transportation Commission meeting to receive comments on continuing some of the previous route changes and returning others to

normal operation in a modified form.

Proposed Changes

Commuter Service

Roseville Transit proposes to maintain the existing level of Commuter service which consists of 13 commuter routes (six AM route and seven PM routes). The Commuter Routes AM 1, 6, 7, 10 and PM 3, 4, 8 will remain suspended until ridership warrants additional service.

Staff believes there is adequate coverage with the existing 13 commuter routes to provide service to those areas impacted by the seven suspended routes. Further, current total commuter ridership for the most recent quarter was 4,819 riders. While this number is the highest commuter quarterly ridership total in two years, it is still significantly lower than the 34,497 commuters that rode the quarter prior to COVID impacting ridership numbers. Commuter ridership remains low due to continued teleworking by most State agencies.

Staff will continue to monitor commuter ridership, and when ridership increases to the point where additional service is warranted, additional commuter routes will be added.

Local Service

Roseville Transit proposes a number of modifications for the local routes that were impacted by the onset of the COVID-19 pandemic. In consideration of the SRTP recommendations and continued COVID-19 impacts, The following local service modifications are being proposed on a pilot basis, with an effective date of August 22, 2022.

- Routes C, E, F and G will be restored to service every two hours.
- No route changes are proposed for routes C and F.
- Routes E and G will be modified to provide more direct service between the Sierra Gardens Transfer Point, Galleria Mall, and Sierra College.
- Route E and G will now become one route and will only be referenced as Route E. Route G will no longer exist once these changes are implemented.

Service for the route E and G will be provided every two hours to maintain the interlining with the routes F and C. The proposed modified route will eliminate bus service on Sierra College Boulevard between Rocklin Road and Douglas Boulevard. Routes E and G also previously provided service between Douglas Boulevard and the Sierra Gardens Transfer Point. This area will now only be served by Route L. The modified routes E and G are proposed to provide an out-and-back route between Sierra College and the Sierra Gardens Transfer Point, with a stop at the Galleria Mall. This route is proposed to be renamed Route E, while the Route G will no longer be listed (Attachment 2).

Related to these changes, staff has been working closely with the Sierra College administration, Placer County Transit, and the Placer County Transportation Planning Agency to implement a Sierra College student pass program. While the details are still being finalized, the goal of the student pass program is to provide free rides for all registered Sierra College students. The program is expected to be implemented for the Fall of 2022 semester, which begins August 22, 2022. The proposed modifications for the routes E and G are expected to not only be more appealing to current and future Roseville Transit riders, but also to Sierra College students due to the direct connection to and from Sierra College and the Galleria Mall.

In addition to Roseville Transit providing weekday service every two hours between these destinations, Placer County Transit will also provide service between these two destinations to provide more options for students.

Staff believes that the proposed changes, along with the implementation of the Sierra College pass program will result in increased ridership over the previous underperforming routes.

Public Engagement & Communication for the Proposed Service Changes
Public engagement and communication have been conducted consistent with the previously approved Title VI Plan for Roseville Transit, Federal Transit Administration (FTA) public notification requirements, and City of Roseville best practices. A Public Input Plan was developed to ensure comprehensive and inclusive outreach. These efforts include, but are not limited to:

- Brochures in Spanish and English indicating the proposed Local and Commuter Service changes, and soliciting public input were available on Roseville Transit buses, transit customer service outlets, and at community facilities;
- The same information was also shared with the community via the City of Roseville's newsletters, website, and social media channels;
- Public hearing notices were published in English and Spanish and displayed on all Roseville Transit buses;

A 30 day public comment period to comment on the proposed changes began June 17, 2022 and ended July 19, 2022. A total of eight comments were received. Comments received during the public comment period are attached (Attachment 3). On July 19, 2022, the City's Transportation Commission held a public hearing in which one individual spoke about the changes. This individual's comments are captured as one of the eight public comments received. Following the public hearing, the Transportation Commission unanimously recommended that the City Council approve the proposed service changes as outlined in this Council Communication.

FISCAL IMPACT

The proposed service changes will not result in an increase in vehicle revenue hours. The local service changes consist of a reallocation of service that reinstates the interlining between the E, G, F & C routes. The proposed commuter service changes result in a reduction in revenue hours, which lowers the costs to run the service. If staff decides in the future to add any or all of the seven suspended commuter routes, the additional service hours are already recognized in MV's existing not-to-exceed contract amount.

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)).

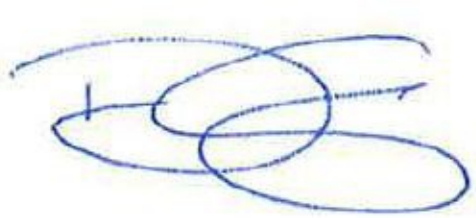
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal A - Remain fiscally responsible in a changing world
Goal E - Deliver exceptional city services

Respectfully Submitted,

Ed Scofield, Alternative Transportation Manager

Jason Shykowski, Public Works Director



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Dominick Casey, City Manager

ATTACHMENTS:

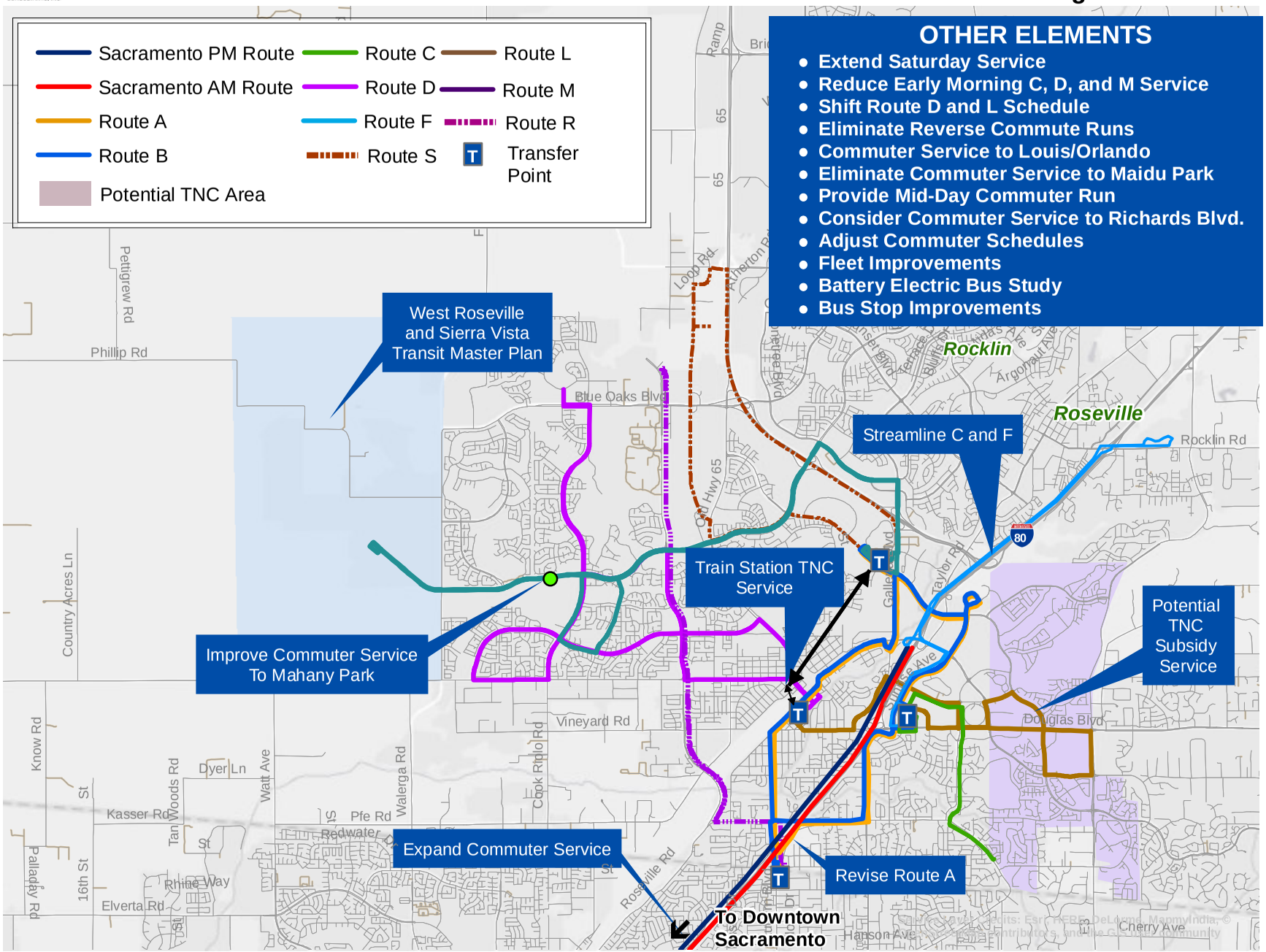
Description

Attachment 1 - SRTP Figure 32

Attachment 2 - Proposed Route E

Attachment 3 - Service Change Comments

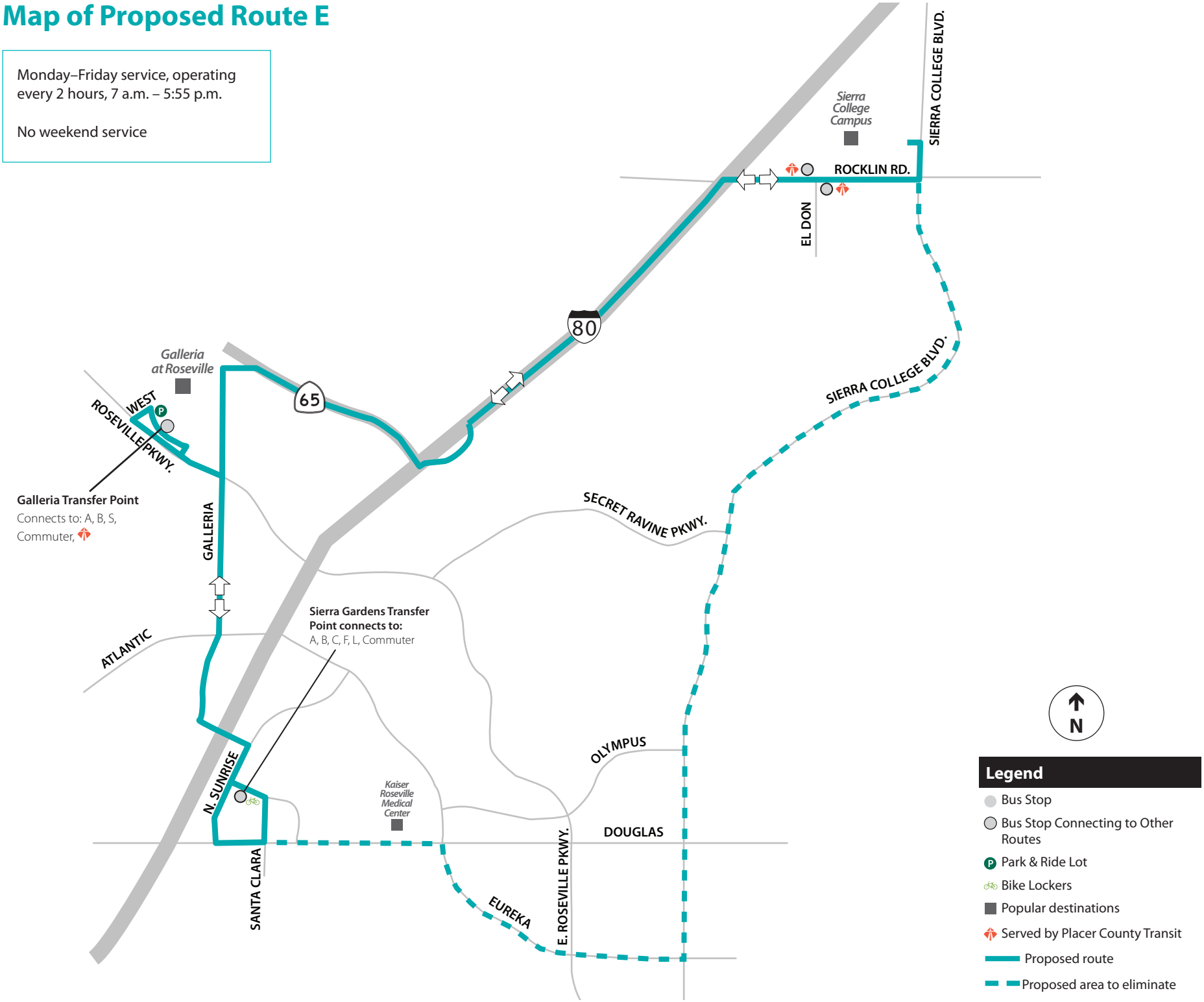
Figure 32
Roseville Transit Short Range Transit Plan



Map of Proposed Route E

Monday–Friday service, operating every 2 hours, 7 a.m. – 5:55 p.m.

No weekend service



Service Change Comments (As of 7/18/22)		
6/20/2022	Ti Nguyen	Regarding the continued suspension of the Roseville Transit commuter routes, I am concerned that not expediently reinstating routes AM 1 and 10, and PM 8, will permanently diminish ridership, such that no "ridership increases enough to warrant additional service" would ever be observed. AM 1 and AM 10 represent the earliest and latest possible morning service to Sacramento, and riders who were previously served at these times ostensibly chiefly value the time flexibility. The result is a Catch-22 where such riders await the return of a service time which won't return until those riders choose less convenient times, which they are wont to do. As for PM 8, riders whose jobs allow them to flexibly leave Sacramento prior to the evening rush hour will not be able to capitalize upon the time advantage, if their choices remain limited to immediately-prior PM 7 and subsequent PM 9 routes. Although offset only by 15 minutes, this is a crucial hour for viable and reliable commute service. I do understand that service expansion without immediate corresponding demand represents a short-term strain on Roseville Transit's resources, but I believe the long-term impact of an indeterminate plan to restore service will ultimately prove counter to the interests of the residents and riders of Roseville. I would request that a revised criteria be considered to indicate the restoration of service.
6/22/2022	Nick Bryant	I would like to see more changes to the routes I am sick and tired of driver shortage enough
6/24/2022	Susan Flores	I have been a commuter of route M bus of Roseville, since 2019. I am having hard time because I leave at 7137 Nobleboro way Roseville CA 95747. The nearest bus stop to me is at CVS Pleasant Grove which is one hour and 10 minutes walk from our place. I would like to proposed an extended route up to fiddyment area. Specifically bus stop near Crawford/Fiddyment area. The dial a ride is not always available also. Thus, it would be a great help for us who leave in the fiddyment farm area to go to work, grocery store, school, church and doctor’s appointment, if there will be a bus service. There are many new houses built already in this area. The population is getting bigger we need a ride please!
7/6/2022	Nichols-Pettit	Eliminating all of East Roseville from bus line will make it extremely difficult for our family to get to Sierra College. We live near Maidu and have a son who attends SC and we are in need of public transportation. The proposed route is very disappointing. East Roseville continues to receive fewer and fewer services from the city. While we understand the growth in West Roseville, it should not come at the expenses of residents all along the East.
7/7/2022	Vanessa Lull	Bring back commuter AM 10 & PM 8!!!!!

7/12/2022	R. Carrillo	As a regular consistent commuter that came from Amtrak (kicking and screaming😁) in February 2021, I would suggest adding one midday route for those that have appointments to make in the morning or afternoon to avoid driving in for an hour appointment This would be a great compromise to not reinstating the dropped routes "pre-Covid". If I have a 7:30 am appt I have to drive in because the latest bus isn't late enough; and the same with a late afternoon appointment: appt at 4 o'clock isn't late enough to take advantage of current commuter routes.
7/12/2022	Will	My only comment is please don't change city route M. It's perfect for hitting the shopping district in Roseville, then taking you back out to the western Roseville neighborhoods. Thank you.
7/18/2022	Peter E.	From a regional perspective, I strongly object to the proposed change to Route E, which would provide service between the Sierra Gardens transfer center and Sierra College with two-hour headways in the same direction. According to transit staff, "The proposed modifications for the routes E and G are expected to not only be more appealing to current and future Roseville Transit riders, but also to Sierra College students due to the collection connection to and from Sierra College and the Galleria Mall. Staff believes that the proposed changes, along with the implementation of the Sierra College pass program will result in increased ridership over the previous underperforming routes.." The staff analysis does not include service provided by Placer County's Route 10. Let's look at the facts. Currently, PCT Route 10 provides 60-minute service between the Galleria and Sierra College on exactly the same route currently operated by Route 10. Using the Galleria for timed transfers for both directions of travel, the Route provides reliable transfers each hour between Routes A and B, M and, on a more limited basis, Route S. The proposed Route E service will not require a transfer but on the other hand is unlikely to offer timed transfers to and from other routes as the Galleria. The new route won't compete well with service from the Galleria or Sierra College as its headway (two-hours) is twice that for Route 10. Timed transfers for Route 10 offset the no-transfer advantage for Route E. And for the same reason, Route E won't compete well with Route A/B, which operates on 30-minute headways and serves both transfer locations. The Route A/B link is somewhat longer than the corresponding Route E link but its headway is one-fourth, the proposed Route E headway. One only has to look at the elasticity factors comparing headway values. Over a two-hour period, the new route adds one bus to two Route 10 buses, for a new total of 2.5 buses per hour, or an average of 5/6 buses per hour. Thus, if all buses had the same headway, the headway would be 50 minutes. With a headway elasticity of -50%, the increase in riders would be approximately 8%, hardly worth the effort.

7/18/2022	Peter E. (Continued)	So why is Roseville Transit putting forward its Route E proposal? It is not because of capacity on Route 10; the route has adequate capacity throughout the dxay on that link. Are any areas in Roseville being offered access to Sierra College that they don't currently have? No. Essentially, Roseville Transit seems to be arguing that its riders somehow will view the PCT service differently from the new service. This can only be because Roseville riders don't know about the PCT service, which doesn't make any sense. Anybody in Roseville wanting to go to Sierra College and using any transit planning app, including Google maps, will readily see that it is the only option at the present time. Even with the proposed service, Google maps in most cases would still favor Route 10 as part of the trip based on travel time. What about the fare structure for a Roseville resident? Assume that the rider has a Roseville Transit day pass, a round-trip assuming a transfer the Galleria would be $5.25, $4.00 for the day pass and $1.25 for the return trip to the Galleria on Route 10. It is not only possible but likely that PCT would agree to honor Roseville Transit passes at Sierra College. Such an approval would eliminate fare an issue in pursuing the route change. If the new route is implemented, it would make sense for both operators to honor passes purchased by riders of the other service. Because Route 10 will have twice the level of service as the new Route E and has timed connections at the Galleria with three Roseville Transit routes, Roseville riders would still strongly favor riding on Route 10. It is worth examining why the pre-pandemic Routes E/G had poor ridership. Certainly, two-hour headways was a major contributor. The PCT Taylor Road Shuttle, also with a two-hour headway, also has poor operating statistics. Second, its service area did not include a significant number of Sierra College students Third, the trip to the college from Sierra Gardens was too long (24 minutes) and did not include any major trip generators in the 4-mile section between Douglas Boulevard and the college. Finally, the route included two miles adjacent to the Rocklin border but did not include any stops in Rocklin except the college. Inexplicably, southbound Route E has four stops north of

7/18/2022	Peter E. (Continued)	Looking to the future, I have prepared a proposal that addresses concerns of the original route and improves upon existing Route and is indicative, I think, of how an integrated approach can improve overall public transit service to both Rocklin and Residents. As a note, Sierra College is only one of five areas where integration is not only desirable but essential for improving mobility for both Roseville and Rocklin residents along its joint southern border. Both routes would terminate at the Galleria. They would have one-hour headways but would be spaced so that one-half hour headways for service to Sierra College would be available, and each bus would have a timed transfer to A/B service, which operates on one-half hour headways, as noted. Route E would have improved ridership because of the shorter headway and would serve the Secret Ravine residential area, which was the subject of an unmet transit request,. Also, service to Rocklin residential area on Sierra College Boulevard would be provided and access to Stanford Crossings/Stanford Commons commercial development would be available for both routes. This proposal definitely requires more detailed operational analysis but does suggest ways in which an integrated approach to transit planning can provide benefits to both Rocklin and Roseville residents. Perhaps, as a Rocklin resident, I am out of my lane in advocating against a Roseville Transit proposal, but as a transit advocate I will continue to discourage any operator from wasting limited resources where an integrated approach can achieve the same goal at lower cost.

COUNCIL COMMUNICATION

CC #: 2267
File #: 0704-01

Title:	Roseville Regional Sports Complex Project - Environmental Clearance and Master Plan Approval
Contact:	Tara Gee 916-774-5253 tgee@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 7.1.

RECOMMENDATION TO COUNCIL

Staff recommends the City Council:

1. Adopt a resolution adopting the Subsequent Initial Study/Mitigated Negative Declaration and the Mitigation Monitoring and approving the Reporting Program for the Roseville Regional Sports Complex Project.
2. Approve the Master Plan for the Roseville Regional Sports Complex Program.

BACKGROUND

Location and Size

The site of the proposed Regional Sports Complex is located at 2600 Westbrook Drive in West Roseville. The 25-acre site, combined with an existing 3-acre park site (W-50E), could potentially have accommodated six soccer fields along with parking and other support features. The City entered into a purchase and sale agreement to add an additional 20 acres immediately to the south of the project site. Once the purchase of the 20 acres is complete, the complex site will total approximately 51 acres supporting ten fields, and serve as a more attractive site for statewide and regional events.

Master Plan Proposal

The final master plan includes a ten-field lighted complex with fencing surrounding the fields, two plazas with restrooms and picnic areas, a north and south parking lot, a universally accessible playground (which is located outside of the fenced fields), a looped walking path, a misting cooling system, a corporation yard, EV charging stations with the potential of expansion and an opportunity for future solar panels. It is anticipated that the Complex will be a regional and statewide draw thus becoming an economic driver for the City.

Public Outreach

A preliminary layout was presented during a virtual public workshop held on February 1, 2022. Special interest groups, the general public and Fiddyment/West Park residents were invited to attend. Over 33 people participated in the workshop. Comments included:

• Type of field surfacing
• Concerns about traffic, noise and lighting
• What other sports can be accommodated? (e.g. Lacrosse)
• Can parking ensure that vehicles don't park in the residential areas?
• Will there be pedestrian connections to the east towards the middle and high schools?
• What are the hours of operations for use of the lights and how will this be controlled?
• When will CEQA and the traffic study be completed?
• Can the perimeter pathway be a track?
• Comments about their excitement for the project.

A recording of the meeting is posted on the City's web page at Parks & Recreation/Parks in the Works.

Additional public workshops were held specific to the universally accessible playground. The first was held virtually on May 24, 2022 and another was in-person on July 7, 2022. In total over a dozen attended including children. As design development plans refine the playground, additional outreach will occur to ensure the playground meets the needs of all abilities.

Schedule
If approved, construction documents will be developed with a target ground breaking in Spring 2023. Construction may span over an 18 month period, pending weather.

Parks & Recreation Commission
The Parks & Recreation Commission reviewed and approved the master plan, pending environmental clearance at the August 1, 2022 meeting.

FISCAL IMPACT

Funding for this project was augmented by $25,050,000 in the FY2022-23 budget, utilizing FY2020-21 General Fund year-end surplus, Strategic Improvement Funds, and Public Facilities Fee Funds. This augmentation brings the total project budget, including the additional 20-acre land purchase, to $35,542,198. Staff anticipates another budget augmentation, using FY2021-22 General Fund year-end surplus, will be necessary in Spring 2023 with the award of the construction contract. Once constructed, there will be a General Fund impact for operations and maintenance with revenue offsets.

ENVIRONMENTAL REVIEW

In April 2020, an Addendum to the 2004 WRSP EIR was prepared to address development of a 6-field sports complex on WRSP Parcel W 60A. The City now proposes to acquire adjacent Parcel W-60B within the WRSP Area and expand the proposed Complex. Although environmental review to comply with the California Environmental Quality Act (CEQA) has been completed for a portion of the Proposed Project (6 of the 10 fields), a Subsequent Initial Study/Mitigated Negative Declaration (IS/MND) was prepared to evaluate the full buildout of 10 fields.

As the CEQA Lead Agency, staff determined that a Subsequent Initial Study/Mitigated Negative Declaration (IS/MND) is the appropriate CEQA document to address potential environmental impacts from the proposed project. A Subsequent IS/MND may be prepared if changes to a

project or its circumstances occur, or new information becomes available. The Subsequent IS/MND has been prepared because the proposed project does not include substantial changes that would require major revisions of the previously certified West Roseville Specific Plan Environmental Impact Report (WRSP EIR) and no significant and unavoidable effects previously examined would be substantially more severe than shown in the previous EIR. CEQA Guidelines § 15162(a), § 15162(b).

Notice of the intent to adopt a Subsequent Initial Study/Mitigated Negative Declaration was published in the Sacramento Bee, and sent to property owners and residents within 300' of the project, and to those who attended the public workshops. The Subsequent IS/MND was made available online and via hard copy for review for 30 days (July 12 through August 10, 2022). As of the date of this Council Communication, no comments have been submitted.

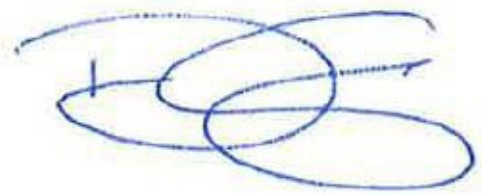
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal C - Maintain a safe and healthy community
Goal D - Enhance economic vitality
Goal E - Deliver exceptional city services
Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Tara Gee, Park Planning & Development Superintendent

Jill Geller, Parks, Recreation & Libraries Director



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 22-329

Vicinity Map

Soccer Complex MMRP

Roseville Sports Complex Master Plan

NOI IS_MND -

Roseville Sports Complex - IS/MND

Attachment A - Concept Plans

Attachment C - Visual Simulation

Attachment E - Air Quality

Attachment F - Biological

Attachment G - Cultural Resources

Attachment H - Traffic Impact Study

Attachment I - Environmental Noise Assessment

Attachment B.1.1 - Design Plans

Attachment B.1.2 - Design Plans

Attachment B.1.3 - Design Plans

Attachment B.2.1 - Design Plans

Attachment B.2.2 - Design Plans

Attachment B.2.3 - Design Plans

Attachment B.2.4 - Design Plans

Attachment D - Light Analysis: Part 1

Attachment D - Light Analysis: Part 2

Attachment D - Light Analysis: Part 3

Attachment D - Light Analysis: Part 3

RESOLUTION NO. 22-329

ADOPTING THE SUBSEQUENT INITIAL STUDY/MITIGATED NEGATIVE DECLARATION AND APPROVING THE MITIGATION MONITORING AND REPORTING PROGRAM FOR THE ROSEVILLE REGIONAL SPORTS COMPLEX PROJECT

WHEREAS, a 25 acre Regional Sports Complex was proposed at 2600 Westbrook Drive in West Roseville; and

WHEREAS, the City entered into a Purchase and Sale Agreement to add an additional 20 acres immediately to the south of the project site; and

WHEREAS, once the purchase of the 20 acres is complete, the complex site will total approximately 51 acres supporting ten fields, and makes the complex a more attractive site for statewide and regional events; and

WHEREAS, in accordance with California Environmental Quality Act (CEQA), a Subsequent Initial Study/Mitigated Negative Declaration (IS/MND) was prepared for the proposed project; and

WHEREAS, the Subsequent Initial Study/Mitigated Negative Declaration (IS/MND) was made available for a 30 day public review and comment period from July 12, 2022 through August 10, 2022; and

WHEREAS, consistent with CEQA Guidelines Section 15097, a Mitigation Monitoring and Reporting Plan (MMRP) has been prepared to assist with the tracking and implementation of required mitigation measures; and

WHEREAS, the Subsequent Initial Study conclusion is that with implementation of all mitigation measures identified in the IS/MND and MMRP, all potential impacts would be reduced to less than significant and an MND is proposed to satisfy CEQA requirements; and

WHEREAS, staff recommends adoption of the IS/MND and approval of the MMRP to satisfy the project's CEQA requirements.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Roseville that it finds on the basis of the Subsequent Initial Study/Mitigated Negative Declaration, and the whole record, including public comments and other documents, that if the Roseville Regional Sports Complex Project is conditioned with mitigation measures as proposed, there is no substantial evidence that the Project will have a significant effect on the environment; the Mitigated Negative Declaration reflects the independent judgment and analysis of the City of Roseville, and the Mitigated Negative Declaration for the Project is hereby adopted.

BE IT FURTHER RESOLVED that the Mitigation Monitoring and Reporting Program for the Roseville Regional Sports Complex Project is hereby approved.

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:

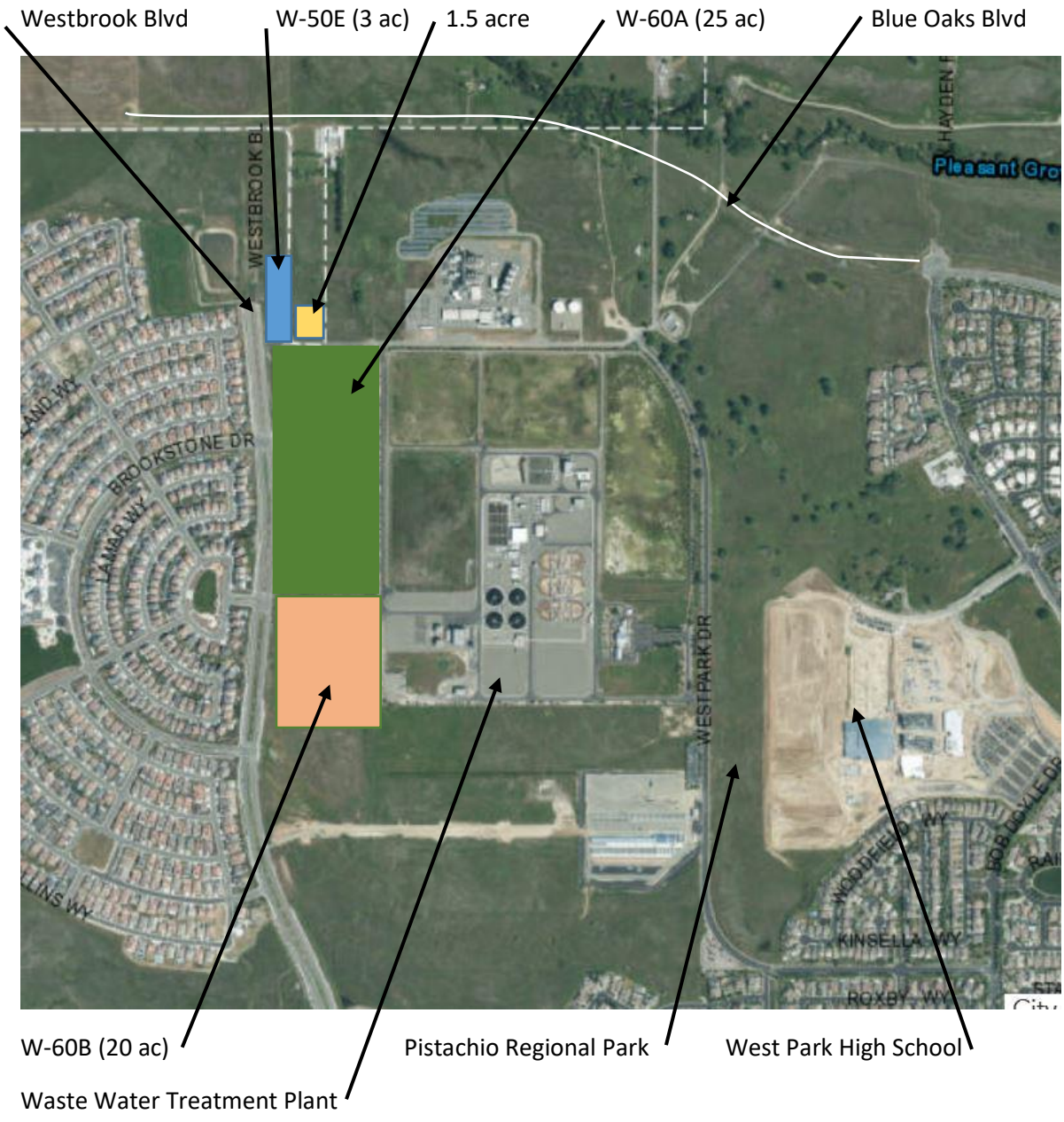
_____
MAYOR

ATTEST:

_____
City Clerk

Regional Soccer Complex

Vicinity Map



CEQA Mitigation Monitoring and Reporting Program for the Roseville Regional Sports Complex Project

August 2022

Roseville Regional Sports Complex Project

MITIGATION MONITORING AND REPORTING PROGRAM

Introduction

Public Resources Code section 21081.6 and section 15097 of the California Environmental Quality Act (CEQA) Guidelines require public agencies to adopt a monitoring or reporting program for projects approved under CEQA that require implementation of mitigation measures as part of project approval.

The following is the Mitigation Monitoring and Reporting Program (MMRP) for the Roseville Regional Sports Complex Project (proposed project). The intent of the MMRP is to aid the City of Roseville with implementation and monitoring of mitigation measures adopted as part of the Roseville Regional Sports Complex Project Final Subsequent Initial Study/Mitigated Negative Declaration (IS/MND).

The following mitigation measures are from the Roseville Regional Sports Complex Project Final Subsequent IS/MND and are the responsibility of the City to implement. As stated in Section 1.3 (Documents Incorporated by Reference) of the Subsequent IS/MND, the WRSP EIR, inclusive of all CEQA analyses and documentation) are incorporated by reference, including the WRSP MMRP. This MMRP describes the *additional* actions that must take place to implement each mitigation measure, the timing of those actions, and the entities responsible for implementing and monitoring the actions.

MMRP Components

The components of the attached table, which contains applicable mitigation measures, are addressed briefly, below.

Impact: This column summarizes the impact identified in the Final Subsequent IS/MND.

Mitigation Measures: All applicable mitigation measures from the WRSP EIR are incorporated by reference, and mitigation measures specifically identified in the Roseville Regional Sports Complex Project Subsequent IS/MND are presented herein.

Action(s): For every mitigation measure, one or more actions are described. The actions delineate the means by which the mitigation measures will be implemented, and, in some instances, the criteria for determining whether a measure has been successfully implemented. Where mitigation measures are particularly detailed, the action may refer back to the measure for specifics.

Implementing Party: This item identifies the entity that will undertake the required action.

Timing: Implementation of the action must occur prior to or during some part of project approval, project design or construction or on an ongoing basis. The timing for each measure is identified.

Monitoring Party: The City of Roseville Development Services Department, in coordination with the Public Works Department, is primarily responsible for ensuring that mitigation measures are successfully implemented. Within the City of Roseville, a number of departments and divisions could have responsibility for monitoring some aspect of the overall project. Other agencies may also be responsible for monitoring the implementation of mitigation measures. As a result, more than one monitoring party may be identified.

Roseville Regional Sports Complex Project, Mitigation Monitoring and Reporting Program					
Impact	**Mitigation Measures**	**Action(s)**	**Implementing Party**	**Timing**	**Monitoring Party**
Air Quality					
Potential for air pollutant emissions due to project construction	**Mitigation Measure AQ-1: Construction Control Measures** The City shall ensure that the following control measures will be implemented during construction: ▪ All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day. ▪ All haul trucks transporting soil, sand, or other loose material off-site shall be covered. ▪ All vehicle speeds on unpaved roads shall be limited to 15 miles per hour (mph). ▪ Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, § 2485 of the CCR).	Implement actions as identified by MM AQ-1	Contractor. City of Roseville Development Services Department	During Construction	Contractor, City of Roseville Development Services Department
Biological Resources					
Potential for impacts to nesting birds	**Mitigation Measure BIO-1: Nesting Birds** If construction activities (e.g., building, grading, ground disturbance, removal of vegetation) are scheduled to occur during the general nesting season (February 15—August 30), a pre-construction nesting bird survey shall be conducted by a qualified biologist throughout areas of suitable habitat on and within 500 feet of proposed construction activity. The survey shall occur no more than 5 days prior to the scheduled onset of construction. If construction is delayed or halted for more than 5 days, another pre-construction survey for nesting bird species shall be conducted. If no nesting birds are detected during the pre-construction survey, no additional surveys or mitigation measures are required. If nesting bird species are observed within 500 feet of construction areas during the survey, appropriate “no construction” buffers shall be established. The size and scale of nesting bird buffers shall be determined by a qualified biologist and shall be dependent upon the species observed and the location of the nest. Buffers shall be established around active nest locations. The nesting bird buffers shall be completely avoided during construction activities. The buffers may be removed when the qualified wildlife biologist confirms that the nest(s) is no longer occupied and all birds have fledged.	Implement actions as required by MM BIO-1.	Contractor. City of Roseville Development Services Department	Prior to construction	Contractor, City of Roseville Development Services Department
Tribal Cultural Resources					
Potential for impacts to tribal cultural resources	**TCR-1 Post-Review Discovery Procedures** If subsurface deposits believed to be cultural or human in origin, or TCRs, are discovered during construction, all work shall halt within a 100-foot radius of the discovery, and the Construction Manager shall immediately notify the City’s Development Services Director by phone. The Construction Manager shall also immediately contact a qualified professional archaeologist, meeting the Secretary of the Interior’s Professional Qualification Standards for archaeology and subject to approval by the City, to evaluate the significance of the find and develop appropriate management recommendations. All management recommendations shall be provided to the City in writing for the City’s review and approval. If recommended by the qualified professional and approved by the City, this may include modification of the no-work radius. The professional archaeologist must make a determination, based on professional judgement and supported by substantial evidence, within one business day of being notified, as to whether or not the find represents a cultural resource or has the potential to be a TCR. The subsequent actions will be determined by the type of discovery, as described below. These include: 1) a work pause that, upon further investigation, is not actually a discovery and the work pause was simply needed in order to allow for closer examination of soil (a “false alarm”); 2) a work pause and subsequent action for discoveries that are clearly not related to TCRs, such as can and bottle dumps, artifacts of European origin, and remnants of built environment features; and 3) a work pause and subsequent action for discoveries that are likely related to TCRs, such as midden soil, bedrock mortars, groundstone, or other similar expressions.	Stop work if potential tribal cultural resources are encountered during ground-disturbing activities and have a qualified archaeologist, in consultation with culturally affiliated tribes, evaluate the find and develop a response plan.	Contractor, Qualified Archaeologist, and City of Roseville Development Services Department	Prior to and during construction	Contractor, City of Roseville Development Services Department

	Whenever there is question as to whether or not the discovery represents a TCR, culturally affiliated tribes shall be consulted in making the determination. Whenever a tribal monitor is present, the monitor shall be consulted. The following processes shall apply, depending on the nature of the find, subject to the review and approval of the City: ▪ **Response to False Alarms:** If the professional archaeologist determines that the find is negative for any cultural indicators, then work may resume immediately upon notice to proceed from the City's representative. No further notifications or tribal consultation is necessary because the discovery is not a TCR of any kind. The professional archaeologist shall provide written documentation of this finding to the City. ▪ **Response to Non-Tribal Discoveries:** If a tribal monitor is not present at the time of discovery and a professional archaeologist determines that the find represents a non-TCR from any time period or cultural affiliation, the City shall be notified immediately, to consult on a finding of eligibility and implementation of appropriate treatment measures, if the find is determined to be a Historical Resource under CEQA, as defined in CEQA *Guidelines* § 15064.5(a). The professional archaeologist shall provide a photograph of the find and a written description to the City. The City will notify the tribe(s) who, in writing, requested notice of unanticipated discovery of non-TCRs. Notice shall include the photograph and description of the find, and a tribal representative shall have the opportunity to determine whether or not the find represents a TCR. If a response is not received within 24 hours of notification (none of which time period may fall on weekends or City holidays), the City will deem this portion of the measure completed in good faith as long as the notification was made and documented. If requested by a tribe(s), the City may extend this timeframe, which shall be documented in writing (electronic communication may be used to satisfy this measure). If a notified tribe responds within 24 hours to indicate that the find represents a TCR, then the Response to Tribal Discoveries portion of this measure applies. If the tribe does not respond or concurs that the discovery is non-tribal, work shall not resume within the no-work radius until the City, through consultation as appropriate, determines that the site either: 1) is not a Historical Resource under CEQA, as defined in CEQA *Guidelines* § 15064.5(a); or 2) that the treatment measures have been completed to its satisfaction. ▪ **Response to Tribal Discoveries:** If the find represents a tribal or potentially TCR that does not include human remains, the tribe(s) and City shall be notified. The City will consult with the tribe(s) on a finding of eligibility and implement appropriate treatment measures, if the find is determined to be either a Historical Resource under CEQA, as defined in CEQA *Guidelines* § 15064.5(a), or a TCR, as defined in PRC § 21074. Preservation in place is the preferred treatment, if feasible. Work shall not resume within the no-work radius until the City, through consultation as appropriate, determines that the site either: 1) is not a Historical Resource under CEQA, as defined in CEQA *Guidelines* § 15064.5(a); or 2) not a TCR, as defined in PRC § 21074; or 3) that the treatment measures have been completed to its satisfaction. ▪ **Response to Human Remains:** If the find includes human remains, or remains that are potentially human, the construction supervisor or on-site archaeologist shall ensure reasonable protection measures are taken to protect the discovery from disturbance (AB 2641) and shall notify the City and Placer County Coroner (per § 7050.5 of the Health and Safety Code). The provisions of § 7050.5 of the California Health and Safety Code, § 5097.98 of the California PRC, and AB 2641 shall be implemented. If the Coroner determines the remains are Native American and not the result of a crime scene, the Coroner will notify the NAHC, which then will designate a Native American Most Likely Descendant (MLD) for the project (PRC § 5097.98). The designated MLD will have 48 hours from the time access to the property is granted to make recommendations concerning treatment of the remains. PRC § 5097.94 provides structure for mediation through the NAHC if necessary. If the landowner does not agree with the recommendations of the MLD, the NAHC can mediate (PRC § 5097.94). ▪ If no agreement is reached, the landowner must rebury the remains in a respectful manner where they will not be further disturbed (PRC § 5097.98). This will also include either recording the site with the NAHC or the appropriate Information Center; using an open space or conservation zoning designation or easement; or recording a reinternment document with the county in which the property is located (AB 2641). Work shall not resume within the no-work radius until the City, through consultation as appropriate, determines that the treatment measures have been completed to its satisfaction.				



LEGEND

1. FIELDS:
   70 YARDS x 120 YARDS (SEE ENLARGEMENT)
   20' SPECTATOR SIDE BUFFER
   22.5' PLAYER SIDE BUFFER
   15' ENDS OF FIELD BUFFER
2. NORTH PARKING LOT 594 PARKING STALLS
3. RESTROOMS AT PLAZA
4. CONCESSIONS BUILDING
5. PICNIC SHADE STRUCTURES (20' X50')
6. TEMPORARY NETTING
7. ALL ACCESSIBLE PLAY AREA (1 ACRE)
8. PARK STORAGE/MAINTENANCE EQUIPMENT
9. EXISTING OVERHEAD POWER LINE TO BE REMOVED AND RELOCATED
10. FUTURE PHASE 1 SOLAR SHADE STRUCTURES - NORTH PARKING LOT (77,760 SQ. FT.)
    135' X 40' = 30 PARKING STALLS (10 TOTAL)
    108' X 40' = 24 PARKING STALLS (3 TOTAL)
    90' X 40' = 20 PARKING STALLS (3 TOTAL)
11. BIOREMEDIATION = 25,926 SQUARE FEET
12. U10 & U12 COMBINED - YOUTH SOCCER STRIPING (45 YDS X 65 YDS)
13. RESTROOM AT PLAYGROUND
14. PLAYGROUND SHADE STRUCTURE (1-21'X' 38')
15. EXISTING PUBLIC BUS STOP
16. PIPE GATE
17. BUS DROP OFF
18. FOOD TRUCK PARKING
19. 16' TALL CHAIN LINK FENCE
20. 6' TALL CHAIN LINK FENCE AROUND MAINTENANCE YARD
21. 42" TALL CHAIN LINK FENCE
22. 8' TALL OMEGA II FENCE WITH 22' NETTING
23. 10'X10' POP-UP TENT WITH SCORER'S TABLE
24. SPORTS LIGHTING
25. SHADE STRUCTURES - PROMENADE
26. SOCCER GOAL
27. PLAYER'S AREA
28. WARM-UP AREA
29. PARK ENTRY SIGN ON FENCE
30. PEDESTRIAN CROSSING
31. SOUTH PARKING LOT 361 PARKING STALLS
32. FUTURE PHASE 2 SOLAR SHADE STRUCTURES - SOUTH PARKING LOT (51,120 SQ. FT.)
    144' X 40' = 32 PARKING STALLS (3 TOTAL)
    135' X 40' = 24 PARKING STALLS (2 TOTAL)
    72' X 40' = 18 PARKING STALLS (8 TOTAL)

ADD ALTERNATE 1:

FIELDS 2 & 9
4 CANTILEVER SHADE STRUCTURES AT FIELDS
SOUTH PLAZA AREA
186 PARKING STALLS- SOUTH

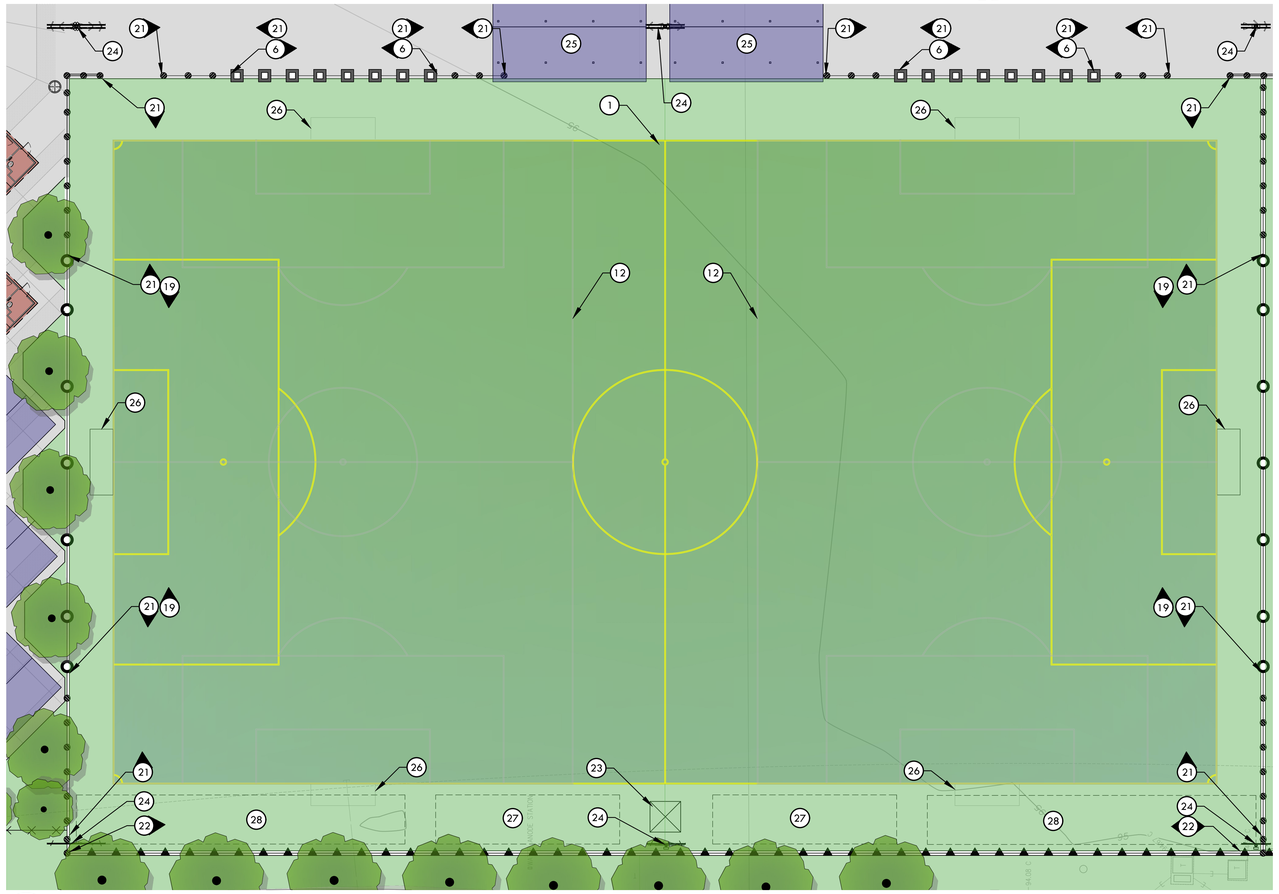
FUTURE PHASE:

FIELDS 1 &10
4 CANTILEVER SHADE STRUCTURES AT FIELDS
MAINTENANCE ROAD/PERIMETER WALKWAY
175 PARKING STALLS - SOUTH

NORTH

0' 50' 100' 200' 300'

JUNE 27, 2022



A FIELD ENLARGEMENT
PLAN VIEW
1"-20'

CITY OF ROSEVILLE CALIFORNIA

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City of Roseville Soccer Complex
MASTER PLAN - CONCEPT
City of Roseville
Westbrook Boulevard

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd, Suite 140
Folsom, CA 95630
tel: 408.985.7200
fax: 408.985.7260
www.verdedesigninc.com

CITY OF ROSEVILLE CALIFORNIA

DEVELOPMENT SERVICES DEPARTMENT
311 Vernon Street, Roseville, CA 95678 (916) 774-5285

NOTICE OF INTENT TO ADOPT A SUBSEQENT MITIGATED NEGATIVE DECLARATION

Public Notice is hereby given that a Subsequent Initial Study/Mitigated Negative Declaration (environmental report) for the Roseville Regional Soccer Complex Project is available for public review.

Project Location and Description: The project site is located on a 55-acre site in northwest Roseville, in western Placer County, California. The project site is located within the West Roseville Specific Plan Area, and consists of portions of four parcels: APN 496-020-034-000, APN 496-020-033-000, APN 496-020-032-000, and APN 017-101-017-000. The site land use and zoning designations are for Parks and Recreation (PR) and Light Industrial/Special Area (M1/SA). The project site is bound by Westbrook Boulevard to the west, Pleasant Grove Wastewater Treatment Plan (WWTP) to the east, and undeveloped commercially zoned parcels to the north and south.

The proposed project consists of the following components: The City of Roseville is proposing to construct a 10-field multi-sport facility layout consisting of the following components: lighted sports fields, onsite surface parking, walking/jogging trails, play areas, picnic areas, plazas and gathering spaces, a maintenance building, restroom building, field house and concessions building with a covered patio area.

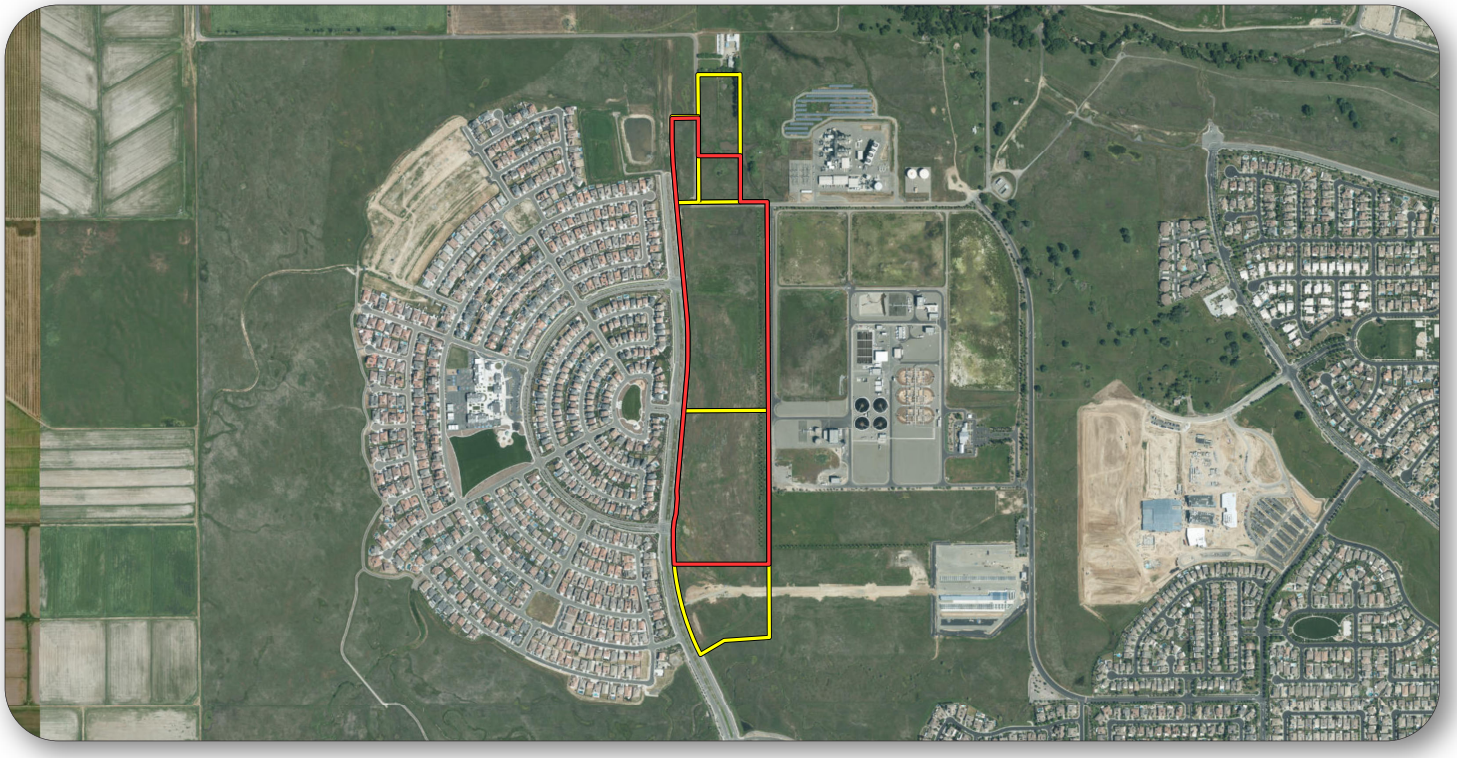
Hazardous Materials and Hazardous Waste Sites: The project site is not identified on any list of hazardous materials sites compiled pursuant to California Government Code Section 65962.5.

Document Review and Availability: The public comment period will extend 30 days **from July 12 to August 10, 2022**. The document can be viewed and/or downloaded from the City of Roseville website at the following link: www.roseville.ca.us/environmentaldocuments

Copies of the Subsequent Initial Study/Mitigated Negative Declaration are also available for review at the City of Roseville Permit Center, 311 Vernon Street, Roseville, CA 95678. Business hours are Monday through Friday, 8:00 am to 4:00 pm (closed between 12:00-1:00 pm).

Public Meeting: The Subsequent Mitigated Negative Declaration is tentatively scheduled for consideration and possible adoption by the City Council on August 17, 2022. City Council meetings start at 6:00 p.m., online and tentatively in the Roseville Council Chambers, 311 Vernon Street. Interested parties should refer to https://www.roseville.ca.us/ and/or call the Roseville City Clerk's Office to confirm meeting locations, agendas, times, and dates (774-5263).

Contact: Written comments on the Initial Study and/or questions may be directed to: Terri Shirhall, Development Services Department, 311 Vernon Street, Roseville, CA 95678 (774-5536), or tshirhall@roseville.ca.us.



SUBSEQUENT INITIAL STUDY/ MITIGATED NEGATIVE DECLARATION

CITY OF ROSEVILLE

ROSEVILLE REGIONAL SPORTS COMPLEX PROJECT

WRSP SCH. NO.2002082057

JULY 2022

PREPARED FOR:
City of Roseville
Parks & Recreation Department
311 Vernon St.
Roseville, CA 95678

PREPARED BY:

Montrose Environmental Solutions
1801 7th Street, Suite 100
Sacramento, CA 95811
(916) 447-3479
www.montrose-env.com

SUBSEQUENT INITIAL STUDY/ MITIGATED NEGATIVE DECLARATION

CITY OF ROSEVILLE

ROSEVILLE REGIONAL SPORTS COMPLEX PROJECT

WRSP SCH. NO.2002082057

JULY 2022

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Saxelby Acoustics – Noise Consultant 4-1
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Attachment B: Design Plans
Attachment C: Visual Simulations and Graphics
Attachment D: Light Analysis
Attachment E: Air Quality and GHG Model Runs
Attachment F: Biological Technical Memorandum
Attachment G: Cultural Resources Letter Report (Confidential)
Attachment H: Transportation Impact Study
Attachment I: Environmental Noise Assessment

1 INTRODUCTION

1.1 PROJECT SUMMARY/ENVIRONMENTAL CHECKLIST FORM

Project Title:	Roseville Regional Sports Complex Project
Lead Agency Name and Address:	City of Roseville (City) – Parks, Recreation & Libraries Department 311 Vernon St. Roseville, CA 95678
Contact Person and Phone Number:	Terri Shirhall, Environmental Coordinator (916) 774-5536, tshirhall@roseville.ca.us
Project Location:	The Project Site is located in the northwestern portion of the City of Roseville in Placer County (County). The Project Site is bound by Westbrook Blvd. to the west, Pleasant Grove Wastewater Treatment Plant (WWTP) to the east, and is surrounded by a mixture of residential, industrial, and open space.
Project Sponsor's Name and Address:	Tara Gee, Park Planning & Development Superintendent City of Roseville, Parks, Recreation & Libraries 316 Vernon St., Suite 400 Roseville, CA 95678
General Plan Designation:	Park and Recreation (P/R) and Light Industrial (LI)
Zoning:	Park and Recreation (PR) and Light Industrial/Special Area (M1/SA)
Description of the Project:	The Proposed Project involves construction of a regional sports complex on an approximately 51-acre Project Site. The Proposed Project would include 10 sports fields, a universally accessible playground, parking lots, restrooms, and picnic areas. A detailed description of the Proposed Project is included in **Section 2.3**.
Existing and Surrounding Land Uses:	The 51-acre Project Site partially spans across four parcels: City Assessor's Parcel Numbers (APN) 496-020-034-000 (WRSP Parcel W-60B), 496-020-033-000 (WRSP Parcel W-60A), 496-020-032-000 (WRSP Parcel W-50E), and 017-101-017-000. All parcels are currently undeveloped and located within City limits. Lands to the north of the Project Site are zoned Community Commercial (CC). Lands to the west of the Project Site are zoned Low and High Density Residential. Lands to the south of the Project Site are zoned Light Industrial (M1). Lands to the east are zoned Public/Quasi-Public (P/QP) and contain the Pleasant Grove WWTP and Roseville Energy Park (REP).

Other Public Agencies Whose Approval may be Required:	Central Valley Regional Water Quality Control Board (CVRWQCB)
Consultation with California Native American Tribes	The City sent Assembly Bill (AB) 52 consultation letters to relevant Tribes. The letter requested that the Tribes notify the City within 30 days if they would like to engage in formal consultation regarding possible significant effects that the Proposed Project may have on tribal cultural resources. The United Auburn Indian Community (UAIC) requested consultation and responded with suggested mitigation measures. Additionally, the Wilton Rancheria requested consultation, but did not reply to subsequent communication. Therefore, the requirements of Public Resources Code (PRC) § 21080.3.1 have been satisfied. Refer to the discussion in **Section 3.19** regarding outreach to Native American Tribes identified by the Native American Heritage Commission (NAHC).

1.2 PURPOSE OF SUBSEQUENT INITIAL STUDY

This Draft Initial Study (IS) was prepared pursuant to California Environmental Quality Act (CEQA) Guidelines § 15162. The purpose of CEQA is to ensure informed governmental decisions by identifying ways to avoid or reduce environmental damage through feasible mitigation or project alternatives and to provide public disclosure (CEQA *Guidelines* § 15002 [a][1]-[4]). The City is the Lead Agency for review of the Proposed Project under CEQA. As the Lead Agency, the City determined that a Subsequent IS is the appropriate CEQA document to address potential environmental impacts from the Proposed Project. Pursuant to CEQA *Guidelines* § 15162(b), the Lead Agency may prepare a Subsequent IS if changes to a project or its circumstances occur or new information becomes available. Pursuant to CEQA Guidelines § 15162(a), a Subsequent IS has been prepared because the Proposed Project does not include substantial changes that would require major revisions of the previous West Roseville Specific Plan Environmental Impact Report (WRSP EIR) and no significant and unavoidable effects previously examined would be substantially more severe than shown in the previous EIR.

1.3 DOCUMENTS INCORPORATED BY REFERENCE

The City's General Plan 2035 (General Plan) was adopted by the City Council on August 5, 2020, along with the certified Final General Plan EIR. The General Plan EIR was prepared in compliance with the CEQA of 1970 (PRC § 21000 et seq.) and the CEQA *Guidelines* (California Code of Regulations [CCR], Title 14, § 15000 et seq.). The General Plan EIR analyzed full implementation of the General Plan and identified measures to mitigate the significant adverse project and cumulative impacts associated with the General Plan. The West Roseville Specific Plan (WRSP) was adopted in February 2004. A Final EIR for the WRSP was published in January 2004. Pursuant to CEQA *Guidelines* § 15150(a), the General Plan, WRSP, and corresponding EIRs, inclusive of all subsequent CEQA analyses and documentation, are incorporated by reference. The impact discussions for each section of this Subsequent IS are in part

based on information in these documents. All documents are online at www.roseville.ca.us/Planning and at the City of Roseville, 311 Vernon Street, Roseville, CA 95678.

1.4 ORGANIZATION OF THE INITIAL STUDY

This document is organized into the following sections:

Section 1.0. Introduction: Describes the purpose, contents, and organization of the document and provides a project summary. Includes the significance determination, which identifies the determination of whether impacts associated with development of the Proposed Project are significant, and what, if any, additional environmental documentation may be required.

Section 2.0. Project Description: Includes a detailed description of the Proposed Project.

Section 3.0. Environmental Impact Analysis: Contains the Environmental Checklist from CEQA *Guidelines* Appendix G with a discussion of potential environmental effects associated with the Proposed Project. Mitigation measures, if necessary, are noted following each impact discussion.

Section 4.0. List of Preparers

Section 5.0. References

Attachments. Contains information to supplement sections within the Subsequent IS.

1.5 ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by the Proposed Project, involving at least one impact requiring mitigation to bring the impact to a less-than-significant level. Impacts to these resources are evaluated using the checklist included in **Section 3.0**. The Proposed Project was determined to have a less-than-significant impact or no impact without mitigation on unchecked resource areas.

☐ Aesthetics	☐ Agriculture and Forest Resources	☑ Air Quality
☑ Biological Resources	☐ Cultural Resources	☐ Energy
☐ Geology and Soils	☐ Greenhouse Gas Emissions	☐ Hazards and Hazardous Materials
☐ Hydrology and Water Quality	☐ Land Use and Planning	☐ Mineral Resources
☐ Noise	☐ Population and Housing	☐ Public Services
☑ Recreation	☐ Transportation	☑ Tribal Cultural Resources
☐ Utilities and Service Systems	☐ Wildfire	☑ Mandatory Findings of Significance

1.6 CEQA ENVIRONMENTAL DETERMINATION (TO BE COMPLETED BY THE LEAD AGENCY)

On the basis of this initial evaluation:

- ☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- ☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- ☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- ☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- ☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Terri Shirhall — Signature

7.1.22 — Date

Terri Shirhall, Environmental Coordinator — Printed Name

City of Roseville — Lead Agency

2 PROJECT DESCRIPTION

2.1 PROJECT HISTORY

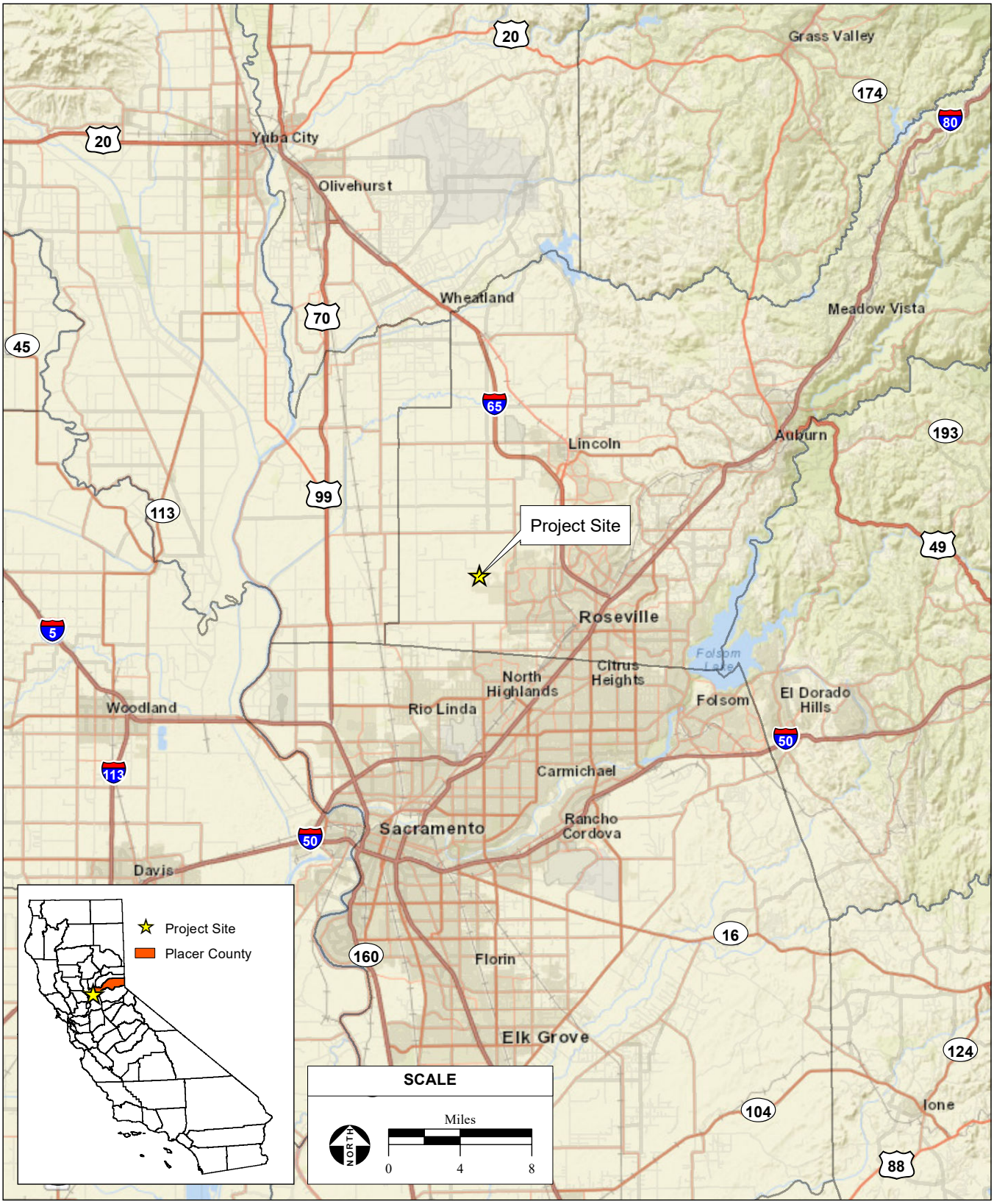
The WRSP includes 3,162 acres west of Fiddyment Road, generally north of Pleasant Grove Blvd. The plan was adopted in February 2004. A Final EIR for the WRSP was certified February 14, 2004 (State Clearinghouse No. 2002082057). Chapter 8 of the WRSP, Public Services Plan, included the planned development of a Regional Sports Park containing 10 soccer fields, baseball fields, a lighted soccer/football stadium, tennis courts, softball fields, concession area with restrooms, outdoor seating, and parking lots (refer to page 8-8 and Figure 8-4 of the WRSP). This Regional Sports Park was proposed to be located on WRSP Parcels F-55 and F-56, on the corner of Blue Oaks Blvd. and Hayden Parkway, adjacent to a high school site. The WRSP EIR analyzed potential impacts of this Regional Sports Park.

Since approval of the WRSP and WRSP EIR, the proposed location of the Regional Sports Park (currently referred to as the Roseville Regional Sports Complex [Complex]) has changed, which this Subsequent IS evaluates (Proposed Project). The location of the Complex has been relocated approximately 0.6 miles southwest of the original proposed location to WRSP Parcels W-60A, W-60B, W-50E, and City parcel 017-101-017-000. APN 017-101-017-000 is not within the WRSP area; therefore, 2.96 acres of the total 51-acre Project Site lies outside of the WRSP boundaries. Additionally, the site plan arrangement has been modified to include 10 sports fields, a universally accessible playground, parking lots, restrooms, and picnic areas. Overall, the Proposed Project is a less intensive use than originally proposed and represents a smaller Project Site (approximately 51 acres rather than 75.15 acres). The revised site plan is depicted on **Figures 2-3** and **2-4** and detailed engineered site and design plans are included in **Attachments A** and **B**.

In April 2020, the City approved an addendum to the 2004 WRSP EIR to develop a 6-field sports complex on WRSP Parcel W-60A. The City now proposes to acquire adjacent Parcel W-60B within the WRSP Area and expand the proposed Complex. Although environmental review has been completed for a portion of the Proposed Project (6 of the 10 fields), this Subsequent IS evaluates the entire project (full buildout of 10 fields and all related accessories) to accurately disclose, assess, and mitigate potential environmental impacts of the Proposed Project.

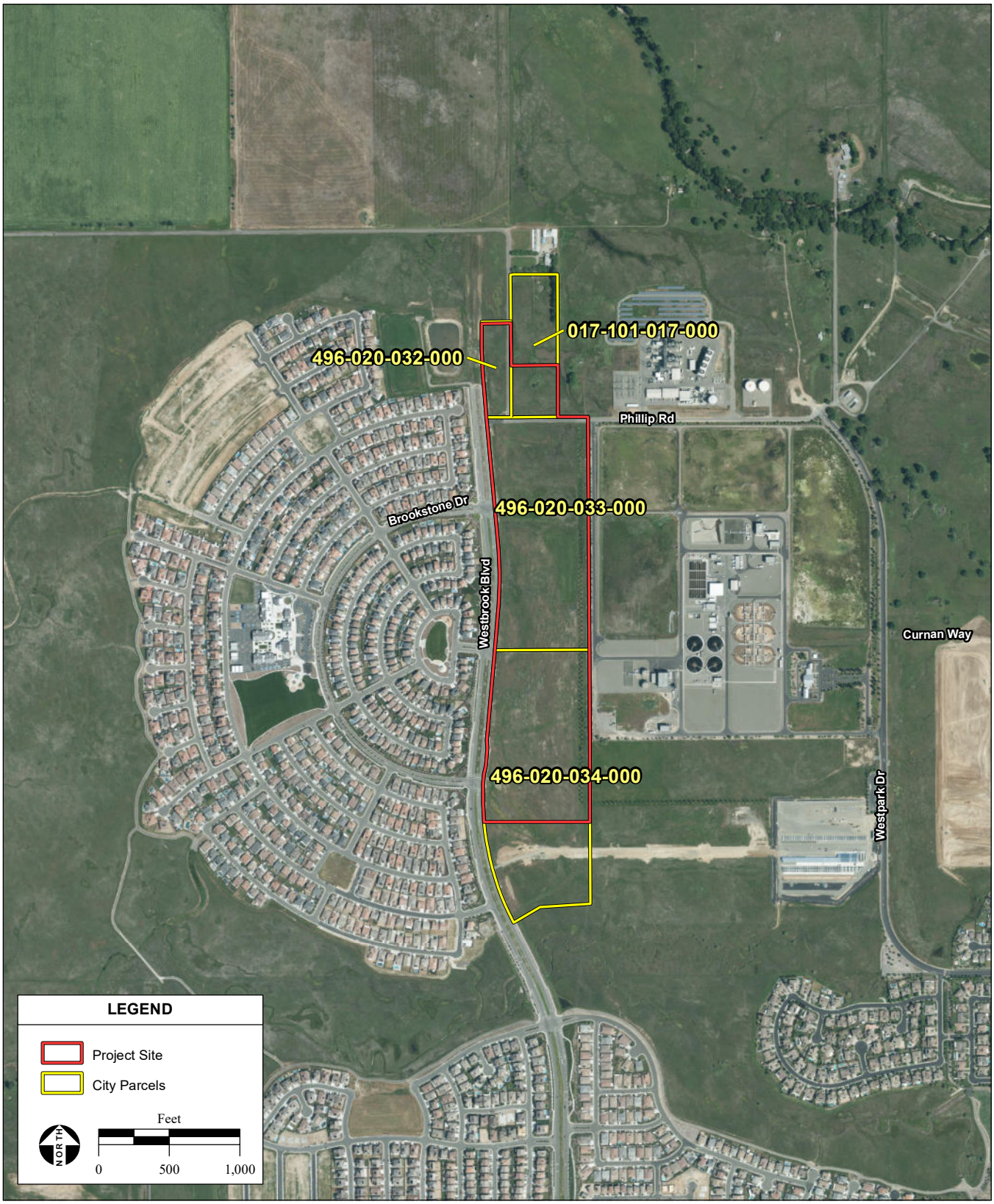
2.2 PROJECT LOCATION AND SETTING

The Project Site is located in the northwestern portion of the City in Placer County, California. The Project Site is bound by Westbrook Blvd. to the west, Pleasant Grove WWTP to the east, and is surrounded by a mixture of residential, industrial, and open space (**Figures 2-1** and **2-2**). The 51-acre Project Site partially spans across four parcels: City APNs 496-020-034-000 (WRSP Parcel W-60B), 496-020-033-000 (WRSP Parcel W-60A), 496-020-032-000 (WRSP Parcel W-50E), 017-101-017-000. Three of the four parcels are located within the WRSP land use plan. The Project Site includes all of APN 496-020-033-000 (25.20 acres—zoned Park and Recreation (PR)), the majority of APN 496-020-032-000 (3.0 acres—zoned PR), the southern portion of APN 017-101-017-000 (2.7 acres—



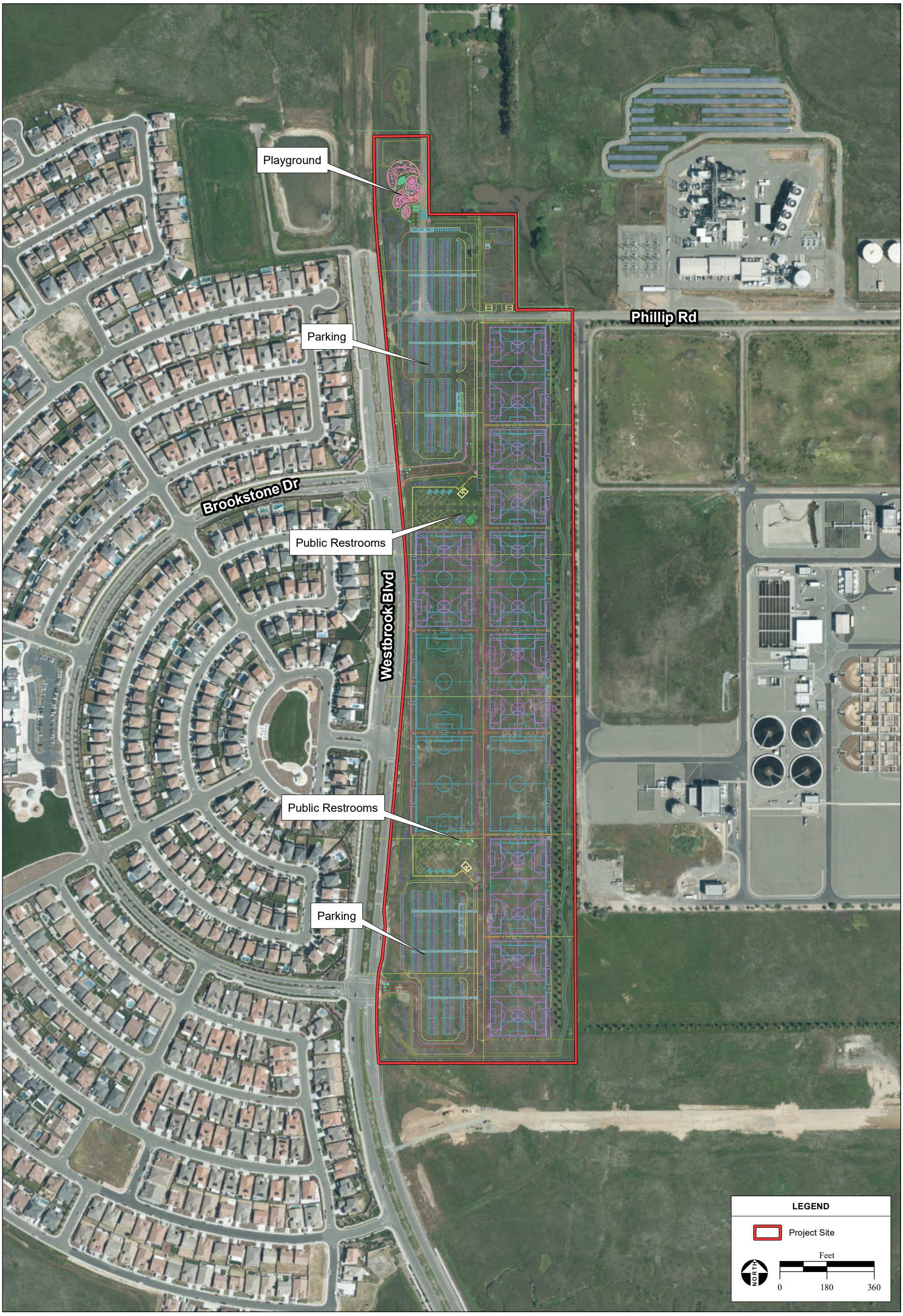
SOURCE: ESRI, 2022; Montrose Environmental, 6/14/2022

Figure 2-1
Regional Location



SOURCE: Placer County parcel data; City of Roseville aerial photograph, 4/22/2019; Montrose Environmental, 6/20/2022

Figure 2-2
Site and Vicinity



SOURCE: Verde Design, 6/6/2022; City of Roseville aerial photograph, 4/22/2019; Montrose Environmental, 6/14/2022

Figure 2-3
Site Plans Over Aerial Image



LEGEND

1. FIELDS:
   70 YARDS x 120 YARDS (SEE ENLARGEMENT)
   20' SPECTATOR SIDE BUFFER
   22.5' PLAYER SIDE BUFFER
   15' ENDS OF FIELD BUFFER
2. NORTH PARKING LOT 594 PARKING STALLS
3. RESTROOMS AT PLAZA
4. CONCESSIONS BUILDING
5. PICNIC SHADE STRUCTURES (20' X50')
6. TEMPORARY NETTING
7. ALL ACCESSIBLE PLAY AREA (1 ACRE)
8. PARK STORAGE/MAINTENANCE EQUIPMENT
9. EXISTING OVERHEAD POWER LINE TO BE REMOVED AND RELOCATED
10. FUTURE PHASE 1 SOLAR SHADE STRUCTURES - NORTH PARKING LOT (77,760 SQ. FT.)
    135' X 40' = 30 PARKING STALLS (10 TOTAL)
    108' X 40' = 24 PARKING STALLS (3 TOTAL)
    90' X 40' = 20 PARKING STALLS (3 TOTAL)
11. BIOREMEDIATION = 25,926 SQUARE FEET
12. U10 & U12 COMBINED - YOUTH SOCCER STRIPING (45 YDS X 65 YDS)
13. RESTROOM AT PLAYGROUND
14. PLAYGROUND SHADE STRUCTURE (1-21'X' 38')
15. EXISTING PUBLIC BUS STOP
16. PIPE GATE
17. BUS DROP OFF
18. FOOD TRUCK PARKING
19. 16' TALL CHAIN LINK FENCE
20. 6' TALL CHAIN LINK FENCE AROUND MAINTENANCE YARD
21. 42" TALL CHAIN LINK FENCE
22. 8' TALL OMEGA II FENCE WITH 22' NETTING
23. 10'X10' POP-UP TENT WITH SCORER'S TABLE
24. SPORTS LIGHTING
25. SHADE STRUCTURES - PROMENADE
26. SOCCER GOAL
27. PLAYER'S AREA
28. WARM-UP AREA
29. PARK ENTRY SIGN ON FENCE
30. PEDESTRIAN CROSSING
31. SOUTH PARKING LOT 361 PARKING STALLS
32. FUTURE PHASE 2 SOLAR SHADE STRUCTURES - SOUTH PARKING LOT (51,120 SQ. FT.)
    144' X 40' = 32 PARKING STALLS (3 TOTAL)
    135' X 40' = 24 PARKING STALLS (2 TOTAL)
    72' X 40' = 18 PARKING STALLS (8 TOTAL)

ADD ALTERNATE 1:

FIELDS 2 & 9
4 CANTILEVER SHADE STRUCTURES AT FIELDS
SOUTH PLAZA AREA
186 PARKING STALLS- SOUTH

FUTURE PHASE:

FIELDS 1 &10
4 CANTILEVER SHADE STRUCTURES AT FIELDS
MAINTENANCE ROAD/PERIMETER WALKWAY
175 PARKING STALLS - SOUTH

NORTH

0' 50' 100' 200' 300'

JUNE 27, 2022



A FIELD ENLARGEMENT
PLAN VIEW
1"-20'

SOURCE: Verde Design 6/27/2022; AES-Montrose, 6/28/2022

Figure 2-4
Site Plan

zoned PR), and the northern portion of APN 496-020-034-000 (20.1 acres—zoned Light Industrial/Special Area).

All parcels are currently undeveloped and located within City limits. An aerial photograph of the Project Site is provided in **Figure 2-3**. Surrounding land uses are comprised of residential, industrial, commercial, and public uses. Lands to the north of the Project Site are zoned Community Commercial (CC). Lands to the west of the Project Site are zoned Low and High Density Residential. Lands to the south of the Project Site are zoned Light Industrial (M1). Lands to the east are zoned Public/Quasi-Public (P/QP) and contain the Pleasant Grove WWTP and REP. Regional access to the Project Site is provided by Interstate 80 (I-80). Vehicular access to the Project Site is provided via Westbrook Blvd. An existing power line easement exists along the eastern border of the Project Site and runs from north to south. The Project Site is vacant and relatively flat, with elevations ranging from approximately 90 feet to 100 feet above mean sea level (amsl).

2.3 PROJECT DESCRIPTION

2.3.1 REGIONAL SPORTS COMPLEX MASTER PLAN

The Proposed Project would include construction of a total of 10 sports fields (artificial turf), a universally accessible playground, parking lots, restrooms, and picnic areas. The proposed site plan is shown in **Figure 2-4**, with detailed engineering and design plans found in **Attachment B**. Renderings of Proposed Project elements, including views of the Project Site, conceptual playground plans, and signage, are included in **Attachment C**. An 8-foot chain link fence would surround each sports field. Fencing along Westbrook Blvd. would be decorative and include a 22-foot high netting above the fence to catch stray soccer balls. Trees would be planted along the northern, western, and southern Project Site boundaries to provide screening and to improve aesthetics of the Project Site. Refer to **Figure 3-1** and **Attachment C** for a rendering of the view of the Proposed Project from Westbrook Blvd., including fencing and landscaping. The Proposed Project would be constructed in two phases, with initial construction of 6 to 8 fields (Phase 1) and the remaining 2 to 4 when funding is available (Phase 2). This Subsequent Initial Study analyzes all potential impacts from full buildout of the Proposed Project.

Parking and Public Transport

The Proposed Project includes two parking lots (North Lot and South Lot) and provides a total of 955 parking stalls, 594 stalls in the North Lot (12 of which are accessible stalls) and 361 stalls in the South Lot (9 of which are accessible stalls). Parking was designed to accommodate a maximum potential of 95 people per field, which is higher than the anticipated maximum potential of 75 people per field. A designated bus drop-off area is proposed on the southern portion of the Project Site at the southern end of the South Lot. Food trucks are expected to be present at tournaments or larger events and would park within the North and South Lots. A public bus stop location is located on the southwest end of the Project Site along Westbrook Blvd. A bus pullout area and bus shelter pad currently exist.

Lighting

The Proposed Project would install 37 poles for stadium lighting along the 10 soccer fields; each pole would be 70 feet tall and designed for downcast lighting. A light analysis is included in **Attachment D**. Additionally, lighting would be installed in the parking lots and on accessory buildings such as restrooms and food stalls.

Landscaping

Landscaping is proposed throughout the Project Site and would be irrigated with recycled water. Trees would be planted along the northern, western, and southern Project Site boundaries (refer to **Figure 3-1** for a rendering of the Project Site as viewed from Westbrook Blvd.). A Planting Plan, which depicts the location and type of landscaping is included on Sheet L9.1 of **Attachment B.** A row of existing redwood and fir trees line the eastern border of the Project Site, partially providing a visual barrier of the Pleasant Grove WWTP. A walking path would be constructed through these trees on the eastern border of the Project Site.

On-Site Operations

The sports fields would serve local sports groups, as well as facilitate regional tournaments. Fields would be rented out individually; some rentals would be recurring reservations, while others would be reserved for tournaments and events. At maximum capacity during general field use, it is anticipated that up to 50 visitors would occur per field, with a maximum visitor potential of 500 people when all 10 fields are in use. For special tournaments, it is anticipated that up to 75 visitors would occur per field, with a maximum visitor potential of 750 people when all 10 fields are in use. Approximately 15 tournaments would occur per year between November through March and holiday weekends (Friday through Sunday only); an additional 5 tournaments would occur for other sports throughout the year. At a maximum, the use of all 10 fields is only anticipated to occur up to 3 nights per week. The majority of use is anticipated to occur Monday through Thursday and Saturdays. Use on Fridays would be minimal (potentially up to 35 visitors).

During weekdays, the Project Site would be used for practices that run from 3:00 p.m. to 10:00 p.m. It is anticipated that the Complex would operate with three, 1.5-hour practice timeslots beginning at 4:30 p.m., 6:00 p.m., and 7:30 p.m. During weekends, games would run from 8:00 a.m. to 10:00 p.m. The Proposed Project would require up to eight employees—one sports supervisor, one recreation leader, two maintenance workers, and four seasonal part-time employees.

2.3.2 TRANSPORTATION AND PEDESTRIAN IMPROVEMENTS

The Proposed Project would include the following modifications to both the northerly and southerly Westbrook Blvd./Brookstone Drive intersections:

- Construction of a new east leg. The westbound approach would include two lanes—a shared through-left lane and a right-turn lane.
- Construction of a northbound right-turn pocket with a storage length of approximately 220 feet.

The Proposed Project does not propose to modify the existing all-way stop sign-control or marked crosswalks at either the northerly or southerly Westbrook Blvd./Brookstone Drive intersection. The Proposed Project would construct new sidewalks along the Westbrook Blvd. Project Site frontage, as well as a new north-south pedestrian path through the center of the Project Site. The Project Site would occupy a portion of the existing Phillip Road alignment. With implementation of the Proposed Project, the east-west segment of Phillip Road would have a new westerly terminus at the Project Site's northerly parking lot (i.e., this segment of Phillip Road would extend between Westpark Drive and the Project Site). The north-south segment of Phillip Road would not provide access to the Project Site.

2.3.3 PHASING AND CONSTRUCTION

The Proposed Project is anticipated to be built in two phases. Phase 1 is anticipated to include the construction of 6 to 8 of the 10 fields, between 594 to 769 parking stalls, approximately 77,760 square feet (sf) of rooftop solar panels within the North Lot, and associated facilities such as restrooms and playground. Construction of Phase 1 of the Proposed Project is anticipated to begin in Spring 2023 and complete in Fall 2024. Phase 2 is anticipated to include the addition of the remaining 2 to 4 fields, remaining parking stalls (approximately 361 to 186 stalls), and approximately 51,120 sf of solar panels within the South Lot. Construction of Phase 2 is dependent on available funding; construction is anticipated to occur within five years of completion of Phase 1.

Construction activities would include site grading, excavation, and trenching for installation of utilities, installation of artificial turf and playground, and construction of structures. Overhead electrical lines currently exist on the Project Site. The East/West trending overhead lines would be relocated underground. The North/South trending overhead lines would remain as is. Grading Plans and an Erosion and Sediment Control Plan were developed for the Proposed Project and are included as Sheet L4.1 and Sheet L2.1 of **Attachment B**, respectively. Grading of Project Site soils is anticipated to include 41,636 cubic yards (cy) of cut material and 41,458 cy of fill material, for a total net cut of 178 cy. Approximately 2,110 cy of asphalt, 2,052 cy of concrete, 5,984 cy of aggregate base, 7,375 cy of turn permeable base, and 34 cy of playground surfacing would be required. Equipment associated with construction activities is anticipated to include dozers, tractors/loaders/backhoes, cranes, forklifts, welders, pavers and paver equipment, rollers, and air compressors. A detailed breakdown of the estimated equipment use type, hours used, horsepower, and load factors are provided in the California Emissions Estimator Model (CalEEMod) report listed in **Attachment E**.

The Proposed Project would require the removal 24 trees. This includes a stand of living interior live oaks composed of 9 small-diameter oaks estimated as not exceeding a 10-inch diameter at breast height (DBH) for an individual stem. These nine trees would be removed to accommodate the North Lot component of the Proposed Project and are located northeast of the intersection of Westbrook Blvd. and Phillip Drive. Additionally, the Proposed Project would remove six redwood and fir trees on the eastern border of the Project Site to accommodate the north-south foot path component of the Proposed Project. These trees were previously installed for landscaping and sightline screen purposes to block views of the WWTP and transmission powerlines located to the east of the Project Site. Lastly, nine cottonwoods located mid-field of the Project Site southeast of the northern terminus of Brookstone Drive would be removed. Removal of trees on the Project Site as part of the Proposed

Project would be mitigated as required by the City of Roseville Tree Preservation Ordinance (Roseville Municipal Code §19.66.030).

Construction entrances would be located on the western edge of the Project Site boundary at Brookstone Drive and Durango Way. Construction is not expected to interfere with traffic along Westbrook Blvd. or result in extended lane closures. Staging of construction materials is expected to be located in the northeast section of the Project Site within the Project Site boundary (refer to Sheet L2.1 of **Attachment B**).

Construction would occur Monday through Friday between the hours of 7:00 a.m. and 3:00 p.m. Up to 12 construction workers are expected to be onsite at a time.

2.3.4 UTILITIES

Water Supply

Water supply services for the Proposed Project would be supplied by the City of Roseville Department of Environmental Utilities and would be necessary for restrooms, water fountains, and misting devices. Recycled water would be utilized for landscaping. Existing municipal water lines exist in the vicinity of the Project Site along Westbrook Blvd. in a north-south direction (24-inch) and along Durango Way (6-inch), and Brookstone Drive at two locations north (6-inch) and south (8-inch) of Durango Way in an east-west direction. Two main points of connection would be utilized, which are able to provide a max flow rate of 27 gallons per minute (GPM) and 90 GPM. The Proposed Project would tie into existing water and recycled water utility lines. The annual water demand for the Proposed Project is anticipated to be approximately 48,360,457 gallons per year. The City's Environmental Utilities Department – Engineering Division has confirmed that adequate water supplies exist to serve the demands of the Proposed Project (Hanson, 2022).

Wastewater Treatment

Wastewater services for the Proposed Project would be provided by the City of Roseville Department of Environmental Utilities and would be required to serve up to four proposed restrooms. An existing 8-inch sewer line is located on the western edge of the Project Site, and a 24-inch sewer line is located on the northern and southern edges of the Project Site. Wastewater would be processed at the Pleasant Grove WWTP, which is located directly to the east of the Project Site. The annual wastewater demand for the Proposed Project is anticipated to be no more than the estimated water demand for the Proposed Project: 48,360,457 gallons per year. The City's Environmental Utilities Department – Engineering Division has confirmed that existing wastewater facilities have sufficient capacity to serve the Proposed Project (Hanson, 2022).

Stormwater

Approximately 25,926 sf of bioremediation (bioswales) planted with filtering vegetation would be implemented throughout the Project Site, as seen on **Figure 2-4**. A Drainage and Utility Plan, which depicts the location of stormwater connections and bioremediation areas is included in Sheet L5.1 of

Attachment B. Stormwater infrastructure currently exists in the vicinity of the Project Site along Westbrook Blvd. with pipe diameters varying between 12 and 36 inches.

Electric and Solar Energy

Energy for the Proposed Project would be provided by Roseville Electric. Energy would be required for powering the stadium lighting, parking lot lighting, accessory structure lighting, security systems, and electrical vehicle (EV) charging stations (approximately 191 EV charging stations). The estimated maximum energy load calculations for the Proposed Project are approximately 2,480 kilowatts (kw) of energy (i.e., utilization of all 10 sports fields and all EV charging stations). Refer to Sheet E0.1 of **Attachment B** for Electrical Plans. The location of proposed solar panels is included within **Attachment A**. Solar panels would be constructed on the roofs of shade structures within the parking lots. During Phase 1, approximately 77,760 sf of solar panels would be installed within the North Lot, with additional solar installed in Phase 2 within the South Lot (approximately 51,120 sf of solar panels). Solar energy would not power the Proposed Project; however, the solar energy would be placed back into the Roseville Electric grid.

2.4 REQUIRED AGENCY APPROVALS

In accordance with CEQA Guidelines §§ 15050 and 15367, the City is the 'Lead Agency' for the Proposed Project, which is defined as the "public agency which has the principal responsibility for carrying out or disapproving a project."

Required permits and approvals are shown in **Table 2-1**. Local approvals required to construct and operate the Proposed Project include adoption of the Mitigated Negative Declaration (MND) and Mitigation Monitoring and Reporting Plan by the City Council and approval of the plans and specifications as well as the construction contract for the Proposed Project. In addition, the proposed construction activities would trigger Section 402 of the Clean Water Act (CWA), which requires coverage under the National Pollutant Discharge Elimination System Permit (NPDES) from the State Water Resources Control Board (SWRCB). This coverage would require development and implementation of a Stormwater Pollution Prevention Plan (SWPPP). No other State or federal approvals are required for the Proposed Project.

TABLE 2-1. PERMITS AND APPROVALS NEEDED FOR THE PROPOSED PROJECT

AGENCY	PERMIT/APPROVAL
City of Roseville	Adoption of the Mitigated Negative Declaration
City of Roseville	Approval of the Mitigation Monitoring and Reporting Plan
City of Roseville	Approval of Plans and Specifications and Construction Contract
City of Roseville	City required permits (such as grading permit).
State Water Resources Control Board/Central Valley Regional Water Quality Control Board	Clean Water Act Section 402 coverage under the National Pollutant Discharge Elimination System permit for Discharges of Stormwater Runoff associated with Construction Activity (Construction General Permit).

2.5 CITY OF ROSEVILLE MITIGATION ORDINANCES, GUIDELINES, AND STANDARDS

CEQA Guidelines allow the use of previously adopted development policies or standards as mitigation for the environmental effects of future projects, when the standards have been adopted by the City with findings, based on substantial evidence, that the policies or standards will substantially mitigate environmental effects, unless substantial new information shows that the policies or standards will not substantially mitigate the effects (§15183[f]). In January 2021 the City of Roseville adopted Findings of Fact under Resolution 21-018, applicable to the following regulations and ordinances, which include standards and policies that are uniformly applied throughout the City and will substantially mitigate specified environmental effects of future projects. These policies and standards apply to approved projects and serve to reduce potential impacts to a less than significant level as discussed in the initial study checklist. As part of the Proposed Project, the City will implement the following regulations and ordinances to reduce potential environmental impacts associated with the Proposed Project.

- Noise Regulation (Roseville Municipal Code Ch.9.24).
- Urban Stormwater Quality Management and Discharge Control Ordinance (Roseville Municipal Code Ch.14.20).
- Stormwater Quality Design Manual (Resolution 07-432).
- City of Roseville Design and Construction Standards (Resolution 07-137).
- Community Design Guidelines (Resolution 95-347).
- Tree Preservation Ordinance (RMC Ch.19.66)
- Internal Guidance for Management of Tribal Cultural Resources and Consultation (Tribal Consultation Policy) (Resolution 20-294)
- West Roseville Specific Plan and Design Guidelines (Resolution 04-40)

3 ENVIRONMENTAL ANALYSIS (CHECKLIST)

3.1 EVALUATION OF ENVIRONMENTAL IMPACTS

Pursuant to CEQA *Guidelines* § 15063, an IS should provide the lead agency with sufficient information to determine whether to prepare an EIR or negative declaration for a proposed project. The CEQA *Guidelines* state that an IS may identify environmental impacts by use of a checklist, matrix, or other method, provided that conclusions are briefly explained and supported by relevant evidence.

If it is determined that a particular physical impact to the environment could occur, then the Subsequent IS checklist must indicate whether the impact is a New Significant Impact, Substantially More Severe Significant Impact, or Less-Than-Significant Impact with Additional Mitigation, compared to the original EIR analysis. Findings of No New Impact for issues that can be demonstrated not to apply to a proposed project do not require further discussion. CEQA *Guidelines* § 15162 provides guidance regarding evaluation of environmental impacts for a Subsequent Negative Declaration.

3.1.1 EVALUATION TERMINOLOGY

The following sections contain the environmental checklist form presented in Appendix G of the CEQA *Guidelines*. The checklist form is used to describe the impacts of a proposed project. For this checklist, the following designations are used:

- **New Significant Impact:** An impact not previously evaluated in the WRSP EIR that could be significant, and for which no mitigation has been identified. If any potentially significant impacts are identified and no mitigation is available to reduce the impact to a less-than-significant level, an EIR must be prepared.
- **Substantially More Severe Significant Impact:** An impact previously evaluated in the WRSP EIR, determined to be substantially more severe than shown in the previous EIR. If no mitigation is available to reduce the impact to a less-than-significant level, an EIR must be prepared.
- **Less-than-Significant Impact with Additional Mitigation:** A new impact associated with the Proposed Project that would be reduced to a less-than-significant level by adding additional mitigation that was not identified in the WRSP EIR.
- **No New Impact:** The Proposed Project would not result in a new potentially significant impact that was not already analyzed in the WRSP EIR.

3.1.2 CUMULATIVE IMPACT ANALYSIS

In addition to growth associated with the build-out projections in the General Plan and WRSP, the projects described below were considered in determining whether the impacts of the Proposed Project would be cumulatively considerable in accordance with CEQA *Guidelines* § 15064(h).

- **Roseville Industrial Park:** The project request, located at 6382 Phillip Road, is for a General Plan Amendment, Rezone, Major Project Permit, Parcel Map, Tree Permit, and Development Agreement to allow the development of an industrial park with a range of industrial uses, including light manufacturing, warehousing, and distribution uses (totaling up to 2,430,000 sf), a potential electrical substation, and associated site improvements. The project would include up to 15 buildings, ranging in size from 80,000 sf to 300,500 sf.
- **West Roseville Marketplace:** The project includes a request for a Design Review Permit, Conditional Use Permit, and a Tentative Parcel Map for an 8.80-acre commercial center located on the northeast corner of Pleasant Grove Blvd. and Fiddyment Road. The project would include a major tenant (i.e., Safeway), several shops, one free-standing building with a gas station, and a free-standing drive-through building. The project includes a major building totaling approximately 55,592 sf, inline shops totaling 13,950 sf, a free-standing drive-through pad totaling 5,500 sf, and a gas station with 8 pumps and an 830 sf free-standing kiosk.
- **Winding Creek Apartments:** The project, located at 3338 Blue Oaks Blvd., is a request for a Design Review Permit to allow the construction of 216 multi-family residential units on an 8.6-acre High Density Residential parcel, with associated parking, lighting, and landscaping. The project consists of 9, 24 plex 3-story garden style walkup buildings with two different building types and an approximate 5,300 sf single story clubhouse building. The clubhouse consists of leasing offices, a game room, and a gathering room as well as a fitness room with outdoor yoga area. Other site amenities include a pool with covered outdoor seating and cabana area with barbecue grills.
- **WRSP PCL W-16 Multifamily Project:** The project, located at 3200 Pleasant Grove Blvd., is a request for a Design Review Permit to allow the construction of 223 multi-family residential units on a 12.16-acre High Density Residential parcel, with associated parking, lighting, and landscaping. The project consists of 4, 12-unit buildings; 12, 10-unit buildings, and 2, 9-unit buildings, as well as a building with a ground-floor community clubhouse and 25 residential units. The clubhouse consists of leasing offices, fitness studios, and a community lounge area as well as other features. Other site amenities include a pool with covered outdoor seating and cabana area with barbecue grills.
- **Infrastructure:** There is a reasonable likelihood that infrastructure expansion and updates may occur within the City. These projects typically include work within previously developed or disturbed habitat, roadways, and utility right of ways.

3.2 AESTHETICS

3.2.1 ENVIRONMENTAL CHECKLIST

AESTHETICS	New Significant Impact	Substantially More Severe Significant Impact	Less-than-Significant Impact with Additional Mitigation	No New Impact
Except as provided in PRC § 21099, would the project:				
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☐	☒
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒
c) In nonurbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☐	☒
d) Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?	☐	☐	☐	☒

3.2.2 SETTING

Regulatory Setting

California Scenic Highway Program

The California Scenic Highway Program, administered by the California Department of Transportation (Caltrans), intends to preserve and protect scenic highway corridors from change that would diminish the aesthetic value of lands adjacent to scenic highways. The State Scenic Highway System includes a list of highways that are either eligible for designation as scenic highways or have been designated. Cities and counties can nominate eligible scenic highways for official designation by identifying and defining the scenic corridor of the highway. The municipality must also adopt ordinances to preserve the scenic quality of the corridor or document such regulations that already exist in various portions of local codes.

City of Roseville General Plan

Land Use Element

Applicable City General Plan goals, policies, and objectives include:

- Policy LU7.9: Control artificial lighting to avoid spill-over lighting onto adjacent properties. Use anti-reflective architectural materials and coatings to prevent glare.

Environmental Setting

As described in **Section 2.0**, the approximately 51-acre Project Site is located in the northwestern portion of the City of Roseville in Placer County, California. The Project Site is bound by Westbrook Blvd. to the west, Pleasant Grove WWTP to the east, the REP to the northeast, and a residential development located approximately 120 feet directly west of the Project Site across Westbrook Blvd. The entire Project Site is undeveloped, with non-native annual grassland habitat dominating the Project Site. The topography of the Project Site is relatively flat, with elevation ranging from 90 to 100 feet amsl. A row of redwood and fire trees line the eastern border of the Project Site, partially providing a visual barrier of the Pleasant Grove WWTP.

The Proposed Project would include stadium lighting (installation of 37 poles) along the 10 sports fields for game play; each pole would be 70 feet in height. A light analysis is included as **Attachment D**. Additionally, security lighting would be installed in the proposed parking lots and on accessory buildings such as restrooms and food stalls. Fencing along Westbrook Blvd. would be decorative and include a 22-foot tall net above the fence to catch stray soccer balls. Landscaping vegetation would be installed throughout the Project Site, with trees planted along the northern, western, and southern borders of the Project Site. The majority of existing trees along the eastern border of the Project Site would be retained. **Figure 3-1** depicts a rendering of the Proposed Project from Westbrook Blvd. Additional details and renderings of the Proposed Project can be viewed in **Attachments A**, **B**, and **C**.

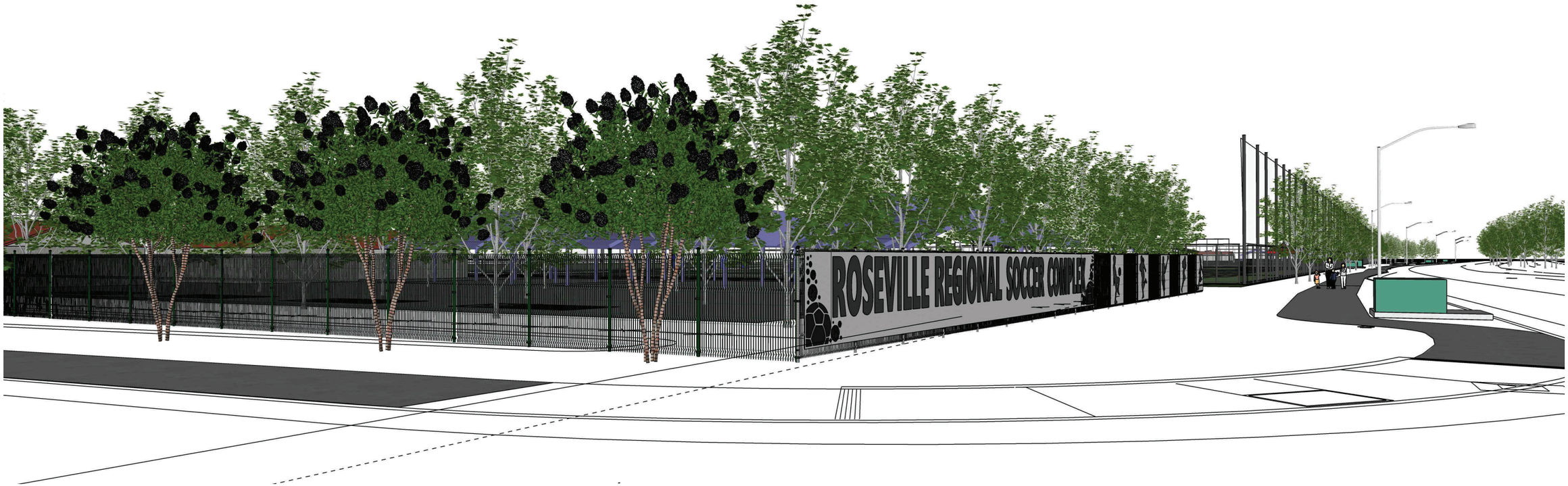
Scenic Resources

There is no comprehensive list of specific features that automatically qualify as scenic resources; however, certain characteristics can be identified which contribute to the determination. The following is a partial list of visual qualities and conditions that if present, may indicate the presence of a scenic resource:

- a tree that displays outstanding features of form or age;
- a landmark tree or a group of distinctive trees accented in a setting as a focus of attention;
- an unusual planting that has historical value;
- a unique, massive rock formation;
- a historic building that is a rare example of its period, style, or design, or which has special architectural features and details of importance;
- a feature specifically identified in applicable planning documents as having a special scenic value;
- a unique focus or a feature integrated with its surroundings or overlapping other scenic elements to form a panorama; and/or,
- a vegetative or structural feature that has local, regional, or statewide importance.



VIEW OF NORTH ENTRY LOOKING SOUTHEAST FROM SOUTHBOUND LANE ON WESTBROOK BLVD.



VIEW LOOKING SOUTH DOWN WESTBROOK BLVD. AT NORTH ENTRY

SOURCE: Verde Design 04/04/2022; AES-Montrose, 6/14/2022

Figure 3-1
Proposed Views of the Project Site

There are no unique scenic resources on or in the vicinity of the Project Site. Furthermore, there are no State Scenic Highways in the vicinity of the Project Site. The nearest State Scenic Highway is U.S. Route 50, located approximately 30 miles east of the Project Site, which does not provide views of the Project Site (Caltrans, 2019b).

Nighttime Lighting Conditions

The Project Site experiences low nighttime ambient light levels, with light primarily sourcing from the residential development directly west of the Project Site and street lights along Westbrook Blvd.

3.2.3 DISCUSSION OF IMPACTS

Question A

Would the project: Have a substantial adverse effect on a scenic vista?

No New Impact. There are no direct views of scenic resources at ground level on the Project Site that would potentially be blocked due to construction of the Proposed Project. Therefore, there would be no impact to scenic vistas and no new impact compared to the WRSP EIR.

Question B

Would the project: Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

No New Impact. As described above, the Project Site is not located near a designated State Scenic Highway or other designated scenic corridor. The Project Site is undeveloped, with non-native annual grassland habitat dominating the Project Site, interspersed with stands of trees. Tree screen habitat occurs along the eastern boundary of the Project Site; these trees were previously planted for landscaping and sightline screen purposes to block views of the Pleasant Grove WWTP and transmission powerlines located to the east of the Project Site.

As shown on the Demolition Plans (Sheet L3.1 of **Attachment B)**, existing trees on the Project Site would be protected to the extent feasible, with 24 trees being removed as part of the Proposed Project. This includes nine small-diameter interior live oaks to accommodate the North Lot component of the Proposed Project, six redwood and fir trees (part of the tree screen) on the eastern border of the Project Site to accommodate the north-south foot path component of the Proposed Project, and nine cottonwoods to accommodate the sports field component of the Proposed Project. Removal of trees on the Project Site as part of the Proposed Project would require the submittal and approval of a Tree Permit pursuant to City Municipal Code § 19.66.030 and any oak trees over 6 inches dbh would be mitigated for in accordance with the City's tree preservation Ordinance (City Municipal Code §19.66).

While six of the trees within the tree screen would be removed as part of the Proposed Project, the majority of these trees would be retained and provide screening from the Project Site of the adjacent Pleasant Grove WWTP to the east. The removal of 24 trees would not substantially damage scenic resources and the development of the Project Site is planned for within the WRSP. Furthermore, a

Landscaping Plan has been developed for the Proposed Project, which would enhance the visual character of the Project Site by adding additional trees and vegetation within and surrounding the Project Site (Sheet L9.1 of **Attachment B**). Therefore, impacts to scenic resources would be less than significant and there would be no new impacts compared to the WRSP EIR.

Question C

Would the project: In nonurbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

No New Impact. The Project Site is undeveloped, with non-native annual grassland habitat dominating the Project Site, interspersed with stands of trees. Development on the Project Site is planned for within the WRSP and the Proposed Project would not substantially degrade the existing visual character or quality of public views. Furthermore, a Landscaping Plan has been developed for the Proposed Project, which would enhance the visual character of the Project Site by adding additional trees and vegetation within and surrounding the Project Site (Sheet L9.1 of **Attachment B**). The Proposed Project would provide a visual barrier between the existing residential development west of the Project Site and the Pleasant Grove WWTP, which would be an aesthetic improvement. Furthermore, the Proposed Project would comply with the City's Design and Construction Standards (City, 2020b). Based on the reasons listed above, impacts to the visual character and quality of the Project Site and vicinity would be considered less than significant and there would be no new impact when compared to the WRSP EIR.

Question D

Would the project: Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?

No New Impact. The WRSP EIR Mitigation Measure (MM) 4.13-1(a) restricts high-watt light usage and hours for park facilities. Consistent with WRSP EIR MM 4.13-1(a), the Proposed Project would not use high-powered floodlights after 11 p.m., as the Proposed Project is located within 300 feet of residences. The WRSP EIR MM 4.13-1(b) requires that sports fields located within 300 feet of residences include shielded lights that are designed to only provide the minimum amount of light necessary for field play. The Proposed Project includes the installation of Musco Stadium lighting (37 poles), which is designed to direct and contain light onto the Project Site; each light fixture is designed to be downcast.

Lighting associated with the Proposed Project would constitute a new source of substantial light. However, according to an analysis of light transmission based on the proposed stadium lighting (**Attachment D**), light related to the Proposed Project would not be detectable at the nearest sensitive receptor, the residential complex directly west of the Proposed Project. According to the light analysis, the average horizontal and vertical footcandles at the boundary of the residential complex (approximately 120 feet west of the Project Site boundary), was calculated to be 0.00 footcandles. This indicates that light would not substantially spill beyond the boundary of the Project Site and would therefore not adversely impact the residences. Additionally, the light analysis reviewed the average

candela (measure of luminous intensity) at the residential boundary. The light analysis concluded that the average candela at the residential boundary is 7.37 candela, with the max candela measurement being 165 candela. The City does not have adopted thresholds for the maximum candela allowed at an adjacent receptor. However, for reference, Fairfax County lighting performance requirements limits off-field lighting to a maximum of 6,000 candela (Fairfax County Park Authority, 2019). Similarly, the British Institute of Lighting Engineers, in its "*Guidance Notes for the Reduction of Light Pollution*," has established a maximum standard of 7,500 candela for rural areas and 10,000 candela for suburban areas (ILP, 2011). As the Proposed Project would have a maximum 165 candela, it is assumed that light perceived at the residential units west of the Prosed Project would not be significant or disruptive.

The light analysis also evaluated the vertical extent of light transmission in order to assess the impact on the night sky. A horizontal blanket grid taken at 5 feet above the height of the 70-foot poles. A measurement of 0.00 footcandles was determined 5 feet above the poles, indicating that light from the poles would not transmit vertically and obscure the night sky (**Attachment D**). Refer to **Attachment D** for an aerial image of Musco stadium lighting used at an example field, with light being contained on site.

Lighting associated with security or accessory buildings would be shielded and cast downwards to reduce glare, and outdoor lighting would primarily be for the purposes of security and safety. None of the materials proposed for use of construction of the Proposed Project are reflective or would produce glare. Potential impacts to day and nighttime views associated with lighting on the Project Site would be considered less than significant and there would be no new impacts compared to the WRSP EIR.

Cumulative Impact

No New Impact. Potential cumulative projects in the vicinity of the Project Site include growth within the City limits according to the build out projections in the City's General and Specific Plans. The Proposed Project is planned for in the WRSP and would not change the general visual character of the Proposed Project area nor would new Proposed Project-related light sources negatively affect the ambient light in the area due to light reduction design strategies. Therefore, the Proposed Project's contribution to aesthetic impacts, including new light sources, would not be cumulatively considerable.

3.2.4 MITIGATION MEASURES

The Proposed Project would not result in any new potentially significant aesthetic impact not already analyzed in the WRSP EIR. Therefore, no new mitigation measures would be necessary.

3.3 AGRICULTURE/FORESTRY RESOURCES

3.3.1 ENVIRONMENTAL CHECKLIST

AGRICULTURE/FORESTRY RESOURCES	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in PRC § 12220(g)), timberland (as defined by PRC § 4526), or timberland zoned Timberland Production (as defined by Government Code § 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

3.3.2 SETTING

Regulatory Setting

Federal

Farmland Protection Policy Act

The Farmland Protection Policy Act is intended to minimize the impact federal programs have on the unnecessary and irreversible conversion of farmland to nonagricultural uses. It assures that federal programs are administered in a matter that is compatible with state and local units of government, and private programs and policies to protect farmland (7 U.S. Code [USC] § 4201).

State

California Farmland Mapping and Monitoring Program

The Farmland Mapping and Monitoring Program (FMMP), which monitors the conversion of the State's farmland to and from agricultural use, was established by the California Department of Conservation (DOC), under the Division of Land Resource Protection. The program maintains an inventory of State agricultural land and updates its "Important Farmland Series Maps" every two years.

Williamson Act

The Williamson Act is a State program that was implemented to preserve agricultural land. Under the provisions of the Williamson Act (California Land Conservation Act 1965, § 51200), landowners contract with the county to maintain agricultural or open space use of their lands in return for reduced property tax assessments (DOC, 2017).

Forestry Resources

Forestry resources are defined in PRC § 12220(g) as “land that can support 10-percent native tree cover of a species, including hardwoods, under natural conditions, and that allows for management of one or more forest resources, including timber, aesthetics, fish and wildlife, biodiversity, water quality, recreation, and other public benefits.” California Government Code § 51104(g) defines “timberland” as “privately owned land, or land acquired for State forest purposes, which is devoted to and used for growing and harvesting timber, or for growing and harvesting timber and compatible uses, and which is capable of growing an average annual volume of wood fiber of at least 15 cubic feet per acre.”

Environmental Setting

According to the DOC FMMP, the entire Project Site and vicinity are classified as: Grazing Land. No Prime Farmland, Unique Farmland, or Farmland of Statewide Importance exists on or in the vicinity of the Project Site (DOC, 2018). Furthermore, the Project Site is not under a Williamson Act contract (DOC, 2017) and is not classified as forest land.

3.3.3 DISCUSSION OF IMPACTS

Question A

Would the project: Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

No New Impact. The Project Site is classified by the DOC FMMP as Grazing Land. The Project Site does not contain Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (DOC, 2018). Therefore, the Proposed Project would not result in the conversion of farmland to a non-agricultural use. The Proposed Project would have no impacts on agricultural resources, and no new impacts compared to the WRSP EIR.

Question B

Would the project: Conflict with existing zoning for agricultural use, or a Williamson Act contract?

No New Impact. The Project Site is not zoned for an agricultural use and is not under a Williamson Act contract (DOC, 2017). Therefore, the Proposed Project would have no impacts on existing zoning for agricultural use, and no new impacts compared to the WRSP EIR.

Question C

Would the project: Conflict with existing zoning for, or cause rezoning of, forest land (as defined in PRC § 12220(g)), timberland (as defined by PRC § 4526), or timberland zoned Timberland Production (as defined by Government Code § 51104(g))?

No New Impact. The Project Site is not zoned Forest Land, Timberland, or Timberland Production. Therefore, the Proposed Project would not cause rezoning of forest land or timberland. The Proposed Project would have no impacts on forest land or timberland, and no new impacts when compared to the WRSP EIR.

Question D

Would the project: Result in the loss of forest land or conversion of forest land to non-forest use?

No New Impact. The Project Site does not contain forest land. Therefore, the Proposed Project would not result in the loss or conversion of forest land to non-forest use. The Proposed Project would have no impacts on forest land, and no new impacts when compared to the WRSP EIR.

Question E

Would the project: Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

No New Impact. The Project Site does not contain land classified as farmland or forest land (DOC, 2018). Therefore, the Proposed Project would not convert farmland to a non-agricultural use or convert forest land to a non-forest use. The Proposed Project would have no impacts on farmland conversion, and no new impacts compared to the WRSP EIR.

Cumulative Impact

No New Impact. The Proposed Project would not result in the conversion of agriculture or forest land; therefore, it would not contribute to cumulative impacts to agricultural resources. The Proposed Project would have no impacts on farmland, and no new impacts compared to the WRSP EIR.

3.3.4 MITIGATION MEASURES

The Proposed Project would not result in any new potentially significant impact on agricultural/forestry resources not already analyzed in the WRSP EIR. Therefore, no new mitigation measures would be necessary.

3.4 AIR QUALITY

3.4.1 ENVIRONMENTAL CHECKLIST

AIR QUALITY	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☐	☒
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard?	☐	☐	☐	☒
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☐	☒

3.4.2 SETTING

Environmental Setting

The City is located in the Sacramento Valley Air Basin (SVAB) and under the jurisdiction of the Placer County Air Pollution Control District (PCAPCD). The SVAB is bounded by the North Coast Ranges on the west and Northern Sierra Nevada Mountains on the east. Hot dry summers and mild rainy winters characterize the Mediterranean climate of the SVAB. During the year, the temperature may range from 20 to 115 degrees Fahrenheit, with summer highs usually in the 90s and winter lows occasionally below freezing. Average annual rainfall is about 20 inches, and the rainy season generally occurs from November through March. The prevailing winds are moderate in strength and vary from moist clean breezes from the south to dry land flows from the north. The mountains surrounding the SVAB create a barrier to airflow, which can trap air pollutants under certain meteorological conditions. The highest frequency of air stagnation occurs in the autumn and early winter when large high-pressure cells cover the Sacramento Valley. The ozone season in the SVAB (May through October) is characterized by

stagnant morning air or light winds with the Delta sea breeze arriving from the southwest in the afternoon. The evening breeze usually transports the airborne pollutants to the north out of the SVAB.

Sensitive Receptors

Schools, hospitals, and convalescent homes are considered to be relatively sensitive to poor air quality because children, elderly people, and the infirm are more susceptible to respiratory distress and other air quality-related health problems. Residential areas are considered sensitive to poor air quality, because people usually stay home for extended periods of time increasing the potential exposure to ambient air quality. Recreational uses are also considered sensitive due to the greater exposure to ambient air quality conditions because vigorous exercise associated with recreation places a high demand on the human respiratory system.

The land surrounding the Project Site is primarily residential to the west, with public uses to the east, including the Pleasant Grove WWTP. The nearest residences are located immediately west of the Project Site. Orchard Ranch Elementary School is located approximately 1,400 feet west of the Project Site. There are no hospitals in the vicinity of the Project Site.

Regulatory Context

Ambient Air Quality Standards

The U.S. Environmental Protection Agency (USEPA), under the Clean Air Act (CAA) establishes maximum ambient concentrations for the six criteria air pollutants (CAP), known as the National Ambient Air Quality Standards (NAAQS). The six CAPs are ozone (O_3), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), carbon monoxide (CO), lead (Pb), and particulate matter 10 and 2.5 microns in size and smaller (PM_{10} and $PM_{2.5}$, respectively).

The California CAA (CCAA) establishes maximum concentrations for the six CAPs, as well as four additional air pollutants in California (visibility reducing particles, sulfates, hydrogen sulfide, and vinyl chloride). These maximum concentrations for the State are known as the California Ambient Air Quality Standards (CAAQS). Concentrations above these time-averaged limits are anticipated to cause adverse health effects to sensitive receptors.

The California Air Resources Board (CARB) is part of the California EPA and has jurisdiction over local air districts. CARB has established their own standards and violation criteria for each CAP under the CAAQS. Refer to **Table 3-1** for the standards and violation criteria for the various averaging times for criteria pollutants of concern in the PCAPCD under the NAAQS and CAAQS.

NAAQS and CAAQS Attainment Designations

As shown in **Table 3-2**, the PCAPCD has been designated nonattainment under the federal and State ozone standards. The PCAPCD has also been designated nonattainment under State PM_{10} and federal $PM_{2.5}$ standards. The PCAPCD either meets the federal and California standards or is unclassifiable for all other CAPs.

TABLE 3-1. NATIONAL AND CALIFORNIA AMBIENT AIR QUALITY STANDARDS AND VIOLATION CRITERIA

POLLUTANT	AVERAGING TIME	STANDARD (PARTS PER MILLION)		STANDARD (MICROGRAM PER CUBIC METER)		VIOLATION CRITERIA	
		CAAQS	NAAQS	CAAQS	NAAQS	CAAQS	NAAQS
Ozone (O_3)	1 hour	0.09	N/A	180	N/A	If exceeded	N/A
Ozone (O_3)	8 hours	0.070	0.070	137	137	N/A	If exceeded on more than 3 days in 3 years
Carbon Monoxide (CO)	8 hours	9	9	10,000	10,000	If exceeded	If exceeded on more than 1 day per year
Carbon Monoxide (CO)	1 hour	20	35	23,000	40,000	If exceeded	If exceeded on more than 1 day per year
Nitrogen Dioxide (NO_2)	Annual arithmetic mean	0.030	0.053	57	100	N/A	If exceeded
Nitrogen Dioxide (NO_2)	1 hour	0.18	0.100	470	188	If exceeded	N/A
Sulfur Dioxide (SO_2)	Annual arithmetic mean	N/A	0.030	N/A	N/A	N/A	If exceeded
Sulfur Dioxide (SO_2)	24 hours	0.04	0.14	105	N/A	If exceeded	If exceeded on more than 1 day per year
Sulfur Dioxide (SO_2)	1 hour (primary)	0.25	0.075	655	196	N/A	N/A
Sulfur Dioxide (SO_2)	3 hours (secondary)	N/A	0.5	N/A	N/A		If exceeded on more than 1 day per year
Respirable Particulate Matter (PM_{10})	Annual arithmetic mean	N/A	N/A	20	N/A	If exceeded	If exceeded

POLLUTANT	AVERAGING TIME	STANDARD (PARTS PER MILLION)		STANDARD (MICROGRAM PER CUBIC METER)		VIOLATION CRITERIA	
		CAAQS	NAAQS	CAAQS	NAAQS	CAAQS	NAAQS
Respirable Particulate Matter (PM_{10})	24 hours	N/A	N/A	50	150	If exceeded	If exceeded on more than 1 day per year
Fine Particulate Matter ($PM_{2.5}$)	Annual arithmetic mean (primary)	N/A	N/A	12	12	If exceeded	If exceeded
Fine Particulate Matter ($PM_{2.5}$)	Annual arithmetic mean (secondary)	N/A	N/A	N/A	15	If exceeded	If exceeded
Fine Particulate Matter ($PM_{2.5}$)	24 hours	N/A	N/A	N/A	35	If exceeded	If exceeded on more than 1 day per year
Lead (Pb)	30 day Average	N/A	N/A	1.5	N/A	If equaled or exceeded	N/A
Lead (Pb)	Rolling 3-month Average	N/A	N/A	N/A	0.15	N/A	If exceeded

Note: N/A = not applicable
Source: CARB, 2016.

TABLE 3-2. PCAPCD ATTAINMENT STATUS

POLLUTANT	AVERAGING TIME	CAAQS	NAAQS
Ozone (O_3)	8 hour	Nonattainment	Nonattainment
Ozone (O_3)	1 hour	Nonattainment	N/A
Carbon Monoxide (CO)	8 hour	Attainment	Attainment
Carbon Monoxide (CO)	1 hour	Attainment	Attainment
Respirable Particulate Matter (PM_{10})	Annual Arithmetic Mean	Nonattainment	N/A
Respirable Particulate Matter (PM_{10})	24 Hour	Nonattainment	Unclassifiable/ Attainment
Fine Particulate Matter ($PM_{2.5}$)	Annual Arithmetic Mean	Attainment	Attainment

Fine Particulate Matter ($PM_{2.5)}$	24 Hour	Attainment	Nonattainment
Nitrogen Dioxide (NO_2)	1 hour	Attainment	Attainment
Nitrogen Dioxide (NO_2)	Annual Arithmetic Mean	Attainment	Attainment
Sulfur Dioxide (SO_2)	24 Hour	Attainment	Attainment
Sulfur Dioxide (SO_2)	1 Hour	Attainment	Attainment
Lead (Pb)	30 Day Average	Attainment	Attainment
Lead (Pb)	Calendar Quarter	N/A	Attainment

Note: CAAQS = California Ambient Air Quality Standards; N/A = not applicable; NAAQS = National Ambient Air Quality Standards; PCAPCD = Placer County Air Pollution Control District

Source: CARB, 2020

California State Implementation Plan

California's State Implementation Plan (SIP) is comprised of the State's overall air quality attainment plans to meet the NAAQS, as well as the individual air quality attainment plans of each air quality management district (AQMD) and air pollution control district (APCD). The items included in the California SIP are listed in 40 Code of Federal Regulations (CFR) Chapter I, Part 52, Subpart F § 52.220. The California SIP is a compilation of new and previously submitted plans, programs (such as monitoring, modeling, permitting, etc.), AQMD and APCD rules, State regulations, and federal controls for each air basin and California's overall air quality.

Due to the nonattainment designations, PCAPCD, along with the other air districts in the SVAB region, periodically prepare and update air quality plans that provide emission reduction strategies to achieve attainment of the NAAQS, including control strategies to reduce air pollutant emissions via regulations, incentive programs, public education, and partnerships with other agencies.

Toxic Air Contaminants

In addition to the above-listed California CAPs, Toxic Air Contaminants (TAC) are another group of pollutants regulated under the CCAA. TACs are less pervasive in the urban atmosphere than the CAPs but are linked to short-term (acute) or long-term (chronic or carcinogenic) adverse human health effects. There are 244 chemicals listed by the State as TACs with varying degrees of toxicity.

Sources of TACs include industrial processes, commercial operations (e.g., gasoline stations and dry cleaners), grading (asbestos), and diesel motor vehicle exhaust. Public exposure to TACs can result from emissions from normal operations, as well as accidental releases. Health effects of TACs include cancer, birth defects, neurological damage, and death.

Ambient air quality standards have not been set for TACs. Instead, these pollutants are typically regulated through a technology-based approach for reducing TACs. This approach requires facilities to install Maximum Achievable Control Technology on emission sources.

Placer County Air Pollution Control District

The PCAPCD attains and maintains air quality conditions in Placer County through a comprehensive program of planning, regulation, enforcement, technical innovation, and promotion of the understanding of air quality issues. The clean air strategy of the PCAPCD includes the preparation of plans for the attainment of ambient air quality standards, adoption, and enforcement of rules and regulations concerning sources of air pollution, and issuance of permits for stationary sources of air pollution.

On August 12, 2021, the PCAPCD Board of Directors updated the *Placer County Air Pollution Control District Policy – Review of Land Use Projects Under CEQA* (PCAPCD, 2021). The policy establishes thresholds of significance for criteria pollutants as well as greenhouse gas (GHG) emissions, and the review principles which serve as guidelines for PCAPCD staff when PCAPCD acts as a commenting agency to review and comment on the environmental documents prepared by CEQA lead agencies.

To evaluate air pollutant emissions from development projects, the PCAPCD has adopted the following significance thresholds for emissions of reactive organic gas (ROG), nitrogen oxides (NOx), and PM_{10}, as shown in **Table 3-3**.

TABLE 3-3. PCAPCD RECOMMENDED THRESHOLDS OF SIGNIFICANCE

POLLUTANT	CONSTRUCTION THRESHOLD (LBS/DAY)	OPERATIONAL THRESHOLD (LBS/DAY)	CUMULATIVE OPERATIONAL THRESHOLD (LBS/DAY)
ROG	82	55	55
NOx	82	55	55
PM_{10}	82	82	82

Note: lbs = pounds; PCAPCD = Placer County Air Pollution Control District; NOx = nitrogen oxide; PM_{10} =- particulate matter 10 microns in size or smaller; ROG = reactive organic gas
Source: PCAPCD, 2021

3.4.3 DISCUSSION OF IMPACTS

Methodology

CalEEMod was used to estimate emissions from all construction and operational-related sources. CalEEMod provides default values when site-specific inputs are not available. The default values are provided in **Attachment E**. The following site-specific inputs and assumptions were used for the purposes of air quality modeling:

- Emissions from construction were calculated based on all construction related activities, including but not limited to grading, use of construction equipment, material hauling, building, and site preparation.

- Construction of Phase 1 would occur over a period of 19 months, starting in March 2023 and ending in October 2024. Construction of Phase 2 would occur over a period of 15 months, starting in March 2025 and ending in June 2026.
- Vehicle trips were based on the trip generation estimates provided in the Traffic Impact Study (**Attachment H**).
- The Proposed Project would comply with PCAPCD rules and regulations (i.e., low volatile organic compound cleaning supplies and paint).

The results of the CalEEMod modeling are discussed below and output files are provided in **Attachment E**. Resulting emission estimates are compared to applicable PCAPCD thresholds to evaluate the effects of construction activities on regional air quality.

Question A

Would the project: Conflict with or obstruct implementation of the applicable air quality plan?

Construction

No New Impact. As stated above, the Project Site is under the jurisdiction of the PCAPCD. Emissions generated from grading and construction activities resulting from the Proposed Project would be short term, intermittent, and temporary in nature. Grading and construction activities associated with the Proposed Project would result in the generation of ROG, NOx, and PM_{10} emissions. PM_{10} is generally the direct result of site grading, excavation, road paving, and exhaust associated with construction equipment. PM_{10} emissions are largely dependent on the amount of ground disturbance associated with site preparation activities. Emissions of NOx and ROG are generally associated with employee vehicle trips, delivery of materials, and construction equipment exhaust. **Table 3-4** shows emissions from construction activities and compares these to PCAPCD thresholds to determine if the construction emissions of the Proposed Project would have a significant impact on regional air quality, thereby conflicting with or obstructing PCAPCD air quality plans.

TABLE 3-4. CONSTRUCTION EMISSIONS

YEAR	POLLUTANTS OF CONCERN		
	ROG (LBS/DAY)	NOX (LBS/DAY)	PM_{10} (LBS/DAY)
2023 – Phase 1	4	40	22
2024 – Phase 1	8	11	0.5
2025 – Phase 2	3	32	21
2026 – Phase 2	5	10	0.5
Highest Emission Year	**8**	**40**	**22**
PCAPCD Thresholds	***82***	***82***	***82***
Exceed PCAPCD Threshold	No	No	No

Note: lbs = pounds; PCAPCD = Placer County Air Pollution Control District; NOx = nitrogen oxide; PM_{10} =- particulate matter 10 microns in size or smaller; ROG = reactive organic gas

Source: Attachment E

As shown in **Table 3-4,** construction emissions of ROG, NOx, and PM_{10} would not exceed the PCAPCD applicable significance thresholds. Therefore, construction of the Proposed Project would not result in a cumulatively considerable net increase of any CAP for which the Proposed Project region is in nonattainment under an applicable federal or State ambient air quality standard and would not conflict with or obstruct implementation of applicable air quality plans. No new impact related to construction emissions would occur compared to the WRSP EIR.

Operation

No New Impact. Operation of the Proposed Project would result in emissions from area, energy, and mobile sources. The primary operational emissions associated with new development projects include PM_{10}, and ozone precursors (ROG and NOx) that are emitted as vehicle exhaust. All operational emissions are summarized in **Table 3-5**.

TABLE 3-5. OPERATIONAL EMISSIONS

SOURCE	POLLUTANTS OF CONCERN		
	ROG (LBS/DAY)	NOX (LBS/DAY)	PM_{10} (LBS/DAY)
Phase 1 Operation	9	7	4
Phase 2 Operation	2	1	1
Total	**11**	**8**	**5**
PCAPCD Thresholds	***55***	***55***	***82***
Exceed PCAPCD Threshold	No	No	No

Note: lbs = pounds; PCAPCD = Placer County Air Pollution Control District; NOx = nitrogen oxide; PM_{10} =- particulate matter 10 microns in size or smaller; ROG = reactive organic gas

Source: Attachment E

Table 3-5 shows that emissions from the Proposed Project would be below PCAPCD thresholds of significance. Therefore, operation of the Proposed Project would have a less-than-significant impact on regional air quality and would not conflict with applicable air quality plans. No new impact related to operational emissions would occur when compared to the WRSP EIR.

Question B

Would the project: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard?

No New Impact. As discussed in **Question A** above, construction and operational emissions from the Proposed Project would be below PCAPCD thresholds of significance. Therefore, the Proposed Project would have a less-than-significant impact on regional air quality and no new impact would occur compared to the WRSP EIR.

Question C

Would the project: Expose sensitive receptors to substantial pollutant concentrations?

Less Than Significant Impact with Additional Mitigation. Sensitive receptors are individuals or groups of people that are more affected by air pollution than others, including young children, the elderly, and individuals weakened by disease or illness. Locations that may contain high concentrations of sensitive receptors include residential areas, schools, playgrounds, childcare centers, hospitals, convalescent homes, and retirement homes. As stated above, the Proposed Project does not contain any components that would result in long-term stationary emissions.

The Proposed Project includes construction activities near existing single-family residences west of the Project Site. As discussed above, the Proposed Project would generate PM_{10} and other pollutants during construction. Although these emissions would cease with completion of construction work, sensitive uses adjacent to the construction area could be exposed to elevated dust levels and other pollutants. This is a potentially significant impact. **Mitigation Measure AQ-1** would reduce emissions from construction activities by controlling fugitive dust and limiting idling times for construction equipment. Further, as discussed above, CAP emissions would be below the applicable PCAPCD thresholds. Therefore, with mitigation, construction and operation of the Proposed Project would not expose sensitive receptors to substantial pollutant concentrations and a less-than-significant impact would occur.

Question D

Would the project: Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

No New Impact. No, the Proposed Project would not result in emissions adversely affecting a substantial number of people because the Proposed Project does not include any components that would result in the generation of long-term odors or similar emissions. Construction activities that have the potential to emit odors and similar emissions include operation of diesel equipment, generation of fugitive dust, and paving (asphalt). Odors and similar emissions from construction are intermittent and temporary, and generally would not extend beyond the construction area. Due to the temporary and intermittent nature of construction odors, impacts during construction would be less than significant and no new impact would occur compared to the WRSP EIR.

Cumulative Impacts

No New Impact*.* Past, present, and future development projects contribute to a region's air quality conditions on a cumulative basis; therefore, by its very nature, air pollution is largely a cumulative impact. If a project's individual emissions contribute toward exceedance of the NAAQS or the CAAQS, then the project's cumulative impact on air quality would be significant. In developing attainment designations for criteria pollutants, the USEPA considers the region's past, present, and future emission levels.

AQMDs determine suitable significance thresholds based on an area's designated nonattainment status. These thresholds provide a tool by which the districts can achieve attainment for a particular criteria pollutant that is designated as nonattainment. Therefore, the PCAPCD's significance thresholds consider the region's past, present, and future emissions levels.

Implementation of the Proposed Project combined with future development within the area of the Proposed Project could lead to cumulative impacts to air quality. Construction of the Proposed Project would result in the generation of CAPs that when combined with future growth within the area of the Proposed Project could lead to cumulative impacts to air quality. As discussed in detail above, emissions resulting from the Proposed Project would not exceed the PCAPCD's thresholds, and construction would be in conformance with the applicable SIP developed to address cumulative emissions of CAPs in the SVAB. Therefore, the Proposed Project would have a less-than-significant cumulative impact on local and regional air quality and no new impact would occur when compared to the WRSP EIR.

3.4.4 MITIGATION MEASURES

AQ-1 Construction Control Measures

The following control measures will be implemented during construction.

a. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.

b. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.

c. All vehicle speeds on unpaved roads shall be limited to 15 miles per hour (mph).

d. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, § 2485 of the CCR).

3.5 BIOLOGICAL RESOURCES

Information in this section is summarized from the Biological Memorandum dated June 2022 (**Attachment F**).

3.5.1 ENVIRONMENTAL CHECKLIST

BIOLOGICAL RESOURCES	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the CDFW or the USFWS?	☐	☐	☒	☐
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the CDFW or the USFWS?	☐	☐	☐	☒
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☐	☒
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☐	☒
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

3.5.2 SETTING

Regulatory Context

Clean Water Act

The U.S. Army Corps of Engineers (USACE) has primary federal responsibility for administering regulations that concern waters of the U.S. (including wetlands), under Section 404 of the CWA. Section 404 regulates the discharge of dredged or fill material into wetlands or waters of the U.S. The USACE requires that a permit be obtained if a project proposes impacts to a surface water resource that qualifies as a wetland or water of the U.S.

Projects impacting waters of the U.S. that require a CWA Section 404 permit additionally require a CWA Section 401 Water Quality Certification Permit. Authority to issue a Section 401 permit has been delegated by the USEPA to the Regional Water Quality Control Board (RWQCB). Under the CWA, beneficial uses lost from impacts due to a project must be replaced by a mitigation project of at least equal function, value, and area. In instances where a surface water resource is not identified as a water of the U.S. but is identified as a water of the State by the RWQCB, jurisdiction falls to the Porter-Cologne Act discussed below.

Federal Endangered Species Act

The U.S. Fish & Wildlife Service (USFWS) and the National Marine Fisheries Service are tasked with implementation of the Federal Endangered Species Act (FESA) of 1973 (16 USC § 1531 et seq.). Threatened and endangered species on the federal list (50 CFR Subsections 17.11, 17.12) are protected from "take" (direct or indirect harm), unless a Section 10 Incidental Take Permit is granted to an individual or a Section 7 Incidental Take Permit is granted to a federal lead agency for potential take occurring during otherwise lawful activities. The USFWS also designates species of concern. While species of concern are not afforded legal protection under the FESA, the USFWS may still recommend specific management actions or publish guiding documents for these species. Project-related impacts to such species, either as individuals or populations, would also be considered significant and require mitigation. Under the FESA, loss of habitat for listed species is considered a significant impact.

Critical Habitat

Critical Habitat is defined under the FESA as specific geographic areas within a listed species range that contain features considered essential for the conservation of the listed species. Designated Critical Habitat for a given species supports habitat determined by the USFWS to be important for the recovery of the species.

Migratory Bird Treaty Act

Migratory birds are protected under the federal Migratory Bird Treaty Act (MBTA) of 1918 (16 USC §§ 703-712). The MBTA makes it unlawful to pursue, hunt, take, capture, kill, attempt to take, capture, or kill, possess, buy, sell, purchase, or barter any migratory bird listed under 50 CFR § 10. This includes feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 CFR § 21).

California Fish and Game Code

California Fish and Game Code (CFGC) §§ 1600-1616 regulate impacts to stream and lake beds, and adjacent riparian habitat. Section 1602 requires California Department of Fish and Wildlife (CDFW) notification before beginning any activity that may obstruct or divert the natural flow of a river, stream, or lake; change or use any material from the bed, channel, or bank of a river, stream, or lake; or deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it can pass into a river, stream, or lake. CFGC § 1602 applies to all perennial, intermittent, and ephemeral rivers, streams, and lakes in the State.

In addition to protections for habitat, CFGC includes provisions that protect individuals of certain species. CFGC §§ 2582, 3511, 4700, 5050, and 5515 include provisions against the take of any CDFW Fully Protected Species without a permit. Prior to implementation of the FESA and California Endangered Species Act (CESA), the California Department of Fish and Game (now CDFW) maintained a list of those species believed to be rare or in peril of extinction, classified as "Fully Protected." While most species currently identified by CDFW as Fully Protected are listed under FESA and/or CESA, those species that are not formally listed, but are designated as Fully Protected, are still considered special-status species. Therefore, take of a Fully Protected Species is prohibited. CDFW additionally maintains a list of "Species of Special Concern," which are similarly afforded protection under the CFGC and are evaluated under CEQA. Under the Code, "take" is defined as attempting to "hunt, pursue, catch, capture, or kill, or attempt" to perform such an action. CFGC § 3503 also includes provisions against the needless destruction of eggs and nests of any bird.

California Endangered Species Act

The CESA of 1984 (CFGC § 2050 et seq., and CCR Title 14, §§ 670.2, 670.51) prohibits the take (interpreted to mean the direct killing of a species) of species listed under CESA (CFGC § 2080; 14 CCR §§ 670.2, 670.5). A CESA permit (Individual Take Permit) must be obtained if a project would result in the "take" of listed species, either during construction or over the life of the project. CFGC § 2081 allows CDFW to authorize take prohibited under Section 2080 provided that: 1) the take is incidental to an otherwise lawful activity; 2) the take will be minimized and fully mitigated; 3) the applicant ensures adequate funding for minimization and mitigation; and 4) authorization will not jeopardize continued existence of listed species (CFGC § 2081).

Under CESA, the CDFW is responsible for maintaining a list of threatened and endangered species designated under State law (CFGC § 2070). In addition to the list of threatened and endangered species, CDFW also maintains lists of species of special concern, which serve as "watch lists." Pursuant to requirements of the CESA, an agency reviewing a project within its jurisdiction must determine whether any State-listed species may be present in the project area and determine whether the project would have a potentially significant impact upon such species.

Porter-Cologne Act

In instances where a surface water resource is not identified as a water of the U.S., the RWQCB may still classify the resource as a water of the State under the Porter-Cologne Act. Projects that impact waters of the State that do not meet the definition of waters of the U.S. general require a Waste Discharge

Requirement (WDR) Permit from the RWQCB, or a waiver from this requirement. WDR Permits are required pursuant to California Water Code § 13260 for any persons discharging or proposing to discharge waste, including dredge or fill, that could affect the quality of the waters of the State. The WDR Permit is obtained through the RWQCB that has jurisdiction over the site on which impacts occur. The Project Site falls within the jurisdiction of the CVRWQCB.

City of Roseville General Plan

The Open Space and Conservation Element of the City's General Plan identifies goals, policies, and actions related to biological resources. The following goals are policies identified in the General Plan related to biological resources and form the foundation for the City's actions related to preservation and management of such resources:

Policy OS1.6 Take into account natural habitat areas when designating access to and preserving open space areas. Identify alternate locations and design for access where sensitive habitat areas have the potential to be adversely impacted.

Policy OS3.3 Ensure a buffer area between waterways and urban development to protect water quality and riparian areas.

Policy OS2.1 Incorporate existing trees into development projects with an emphasis on avoiding the removal of groupings or groves of trees. Where preservation is not feasible, continue to require mitigation for the loss of removed trees.

City of Roseville Open Space Preserve Overarching Management Plan

In 2000, the City entered into a Memorandum of Understanding (MOU) with USFWS regarding the potential for development of the Pleasant Grove WWTP and subsequent development of its service area to impact special-status species. Pursuant to the MOU, and in consultation with USFWS, the City developed a standardized methodology to manage open space areas preserved as a result of development of the WWTP and anticipated development of the service area. The City has adopted the Open Space Preserve Overarching Management Plan as a guiding document for multiple other open space management areas, including the WRSP open space preserve land. According to the City of Roseville Open Space Preserve Overarching Management Plan, the Plan was designed to:

1. Provide a City-wide approach to open space management, maintenance, and monitoring.
2. Provide specific goals for open space management, maintenance, and monitoring.
3. Consolidate existing Open Space Preserve monitoring and reporting requirements to allow for more comprehensive data gathering and preparation of a single annual monitoring report.
4. Consolidate existing Operation and Management Plans and update the approved list of Open Space Preserve area allowed uses.
5. Eliminate the need for additional management plans when new open space is dedicated through the development process or habitat conservation efforts.
6. Gain approval of necessary open space management and maintenance tasks that might adversely affect federally listed species (threatened or endangered) protected by the Endangered Species Act.

7. Reduce Agency and City staff workload by providing an agreed-upon method for corrective actions.
8. Provide a platform for grant funding.

City of Roseville Tree Protection Ordinance

Chapter 19.66 of the City's Municipal Code provides preservation and permitting requirements for the removal of protected trees during land development. Protected trees are defined by the City as any "Native oak tree equal to or greater than 6 inches diameter at breast height (DBH) measured as a total of a single trunk or multiple trunks."

Environmental Setting

Special-Status Species

For the purposes of this assessment, special-status has been defined to include those species that are:

- listed as endangered or threatened under the FESA (or formally proposed for, or candidates for, listing);
- listed as endangered or threatened under the CESA (or proposed for listing);
- designated as endangered or rare, pursuant to CFGC § 1901;
- designated as fully protected, pursuant to CFGC §§ 3511, 4700, or 5050;
- designated as species of concern by the CDFW (CEQA *Guidelines* § 15380); or,
- defined as rare or endangered under CEQA.

Methodology

As discussed in Section 2.0 of **Attachment F**, a biological resources survey was conducted on the Project Site on April 4, 2022. The survey was conducted by walking transects throughout the Project Site. Survey goals consisted of identifying habitat types, sensitive habitats, wetlands and waters of the U.S., and special-status species. Binoculars were used to assist in surveying efforts and in identifying birds. Data was collected via a Trimble® TDC150 global positioning system receiver. In addition to the survey, biological information was obtained from the following sources:

- Aerial photographs of the Project Site and surrounding area;
- USFWS Information for Planning and Conservation list;
- California Natural Diversity Database list;
- California Native Plant Society Inventory of Rare and Endangered Plants list;
- USFWS National Wetlands Inventory map of wetland features; and
- Natural Resources Conservation Service (NRCS) custom soils report.

Copies of database searches are included in Attachment A and B of **Attachment F**.

Habitats

The Project Site consists of non-native annual grassland and a tree screen. These habitat types are summarized below and are explained in greater detail within **Attachment F**. A stockpond, seasonal wetland, and seasonal wetland swale were observed on APN 017-101-017 outside of the Project Site's northern boundary. A portion of the seasonal wetland swale crosses APN 496-020-032, also outside of the Project Site boundary. A habitat map is included as **Figure 3-2**. During creation of the WRSP EIR, it was determined that the Project Site was predominantly grasslands, but that scattered vernal pools were present. These vernal pools were not observed during the current survey.

Non-Native Annual Grasslands

The majority of the Project Site is comprised of non-native annual grasslands. Weedy forbs and non-native grasses are the dominant ground cover of this habitat type. These species include bromes (*Bromus* sp.), filaree (*Erodium* sp.), prickly sowthistle (*Sonchus asper*), and lesser hop trefoil (*Trifolium dubium*). Sparse living and deceased interior live oaks (*Quercus wislizeni*) were observed in this habitat.

Tree Screen

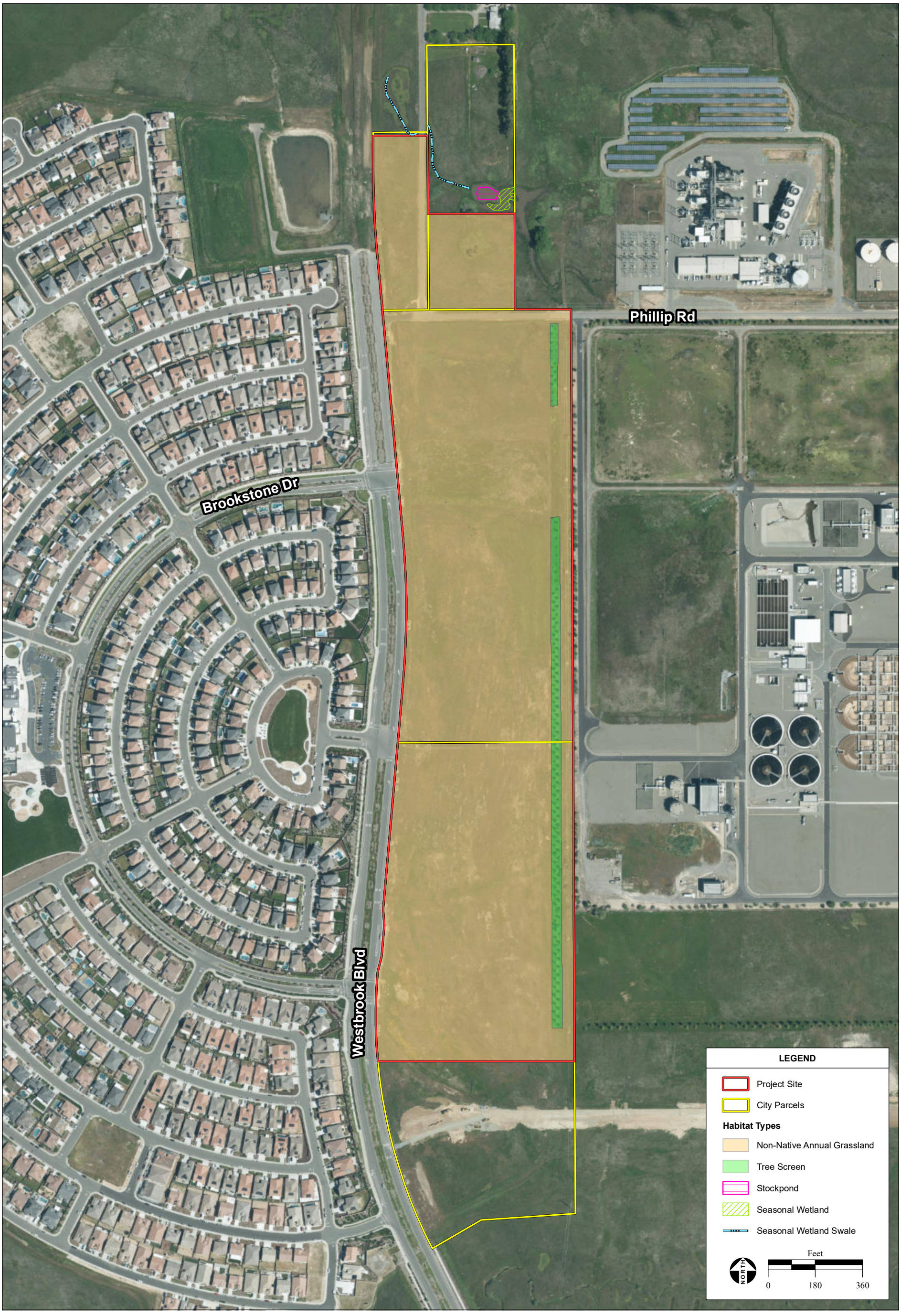
A mixture of Coast redwood (*Sequioa sempirvirens*) and true firs (*Abies* sp.) were planted along the eastern border of the Project Site to act as a tree screen for the adjacent Pleasant Grove WWTP. Fremont cottonwood (*Populus fremontii*) and interior live oak are variably and infrequently present within this habitat type.

Special-Status Species

Regionally occurring special-status species and their potential to occur within the Project Site are identified in Section 3.3 of **Attachment F**. As discussed in **Attachment F**, the Project Site does not contain suitable habitat for special-status plants but does contains limited foraging habitat for white-tailed kite (*Elanus leucurus*) and Swainson's hawk (*Buteo swainsoni*). White tailed kite and Swainson's hawk may forage over the non-native annual grasslands, but suitable nesting habitat is not present within the Project Site.

Critical and Essential Fish Habitat

No USFWS designated or proposed Critical Habitat occurs on the Project Site (refer to Attachment A of **Attachment F**). Additionally, no Essential Fish Habitat occurs on the Project Site.



SOURCE: Placer County Parcels, 2018; City of Roseville aerial photograph, 4/22/2019; Montrose Environmental, 6/20/2022

Figure 3-2
Habitat Types

3.5.3 DISCUSSION OF IMPACTS

Question A

Would the project: Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by CDFW or the USFWS?

Less Than Significant Impact with Additional Mitigation.

Special-Status Species

As described in **Attachment F**, there is limited potential for white-tailed kite and Swainson's hawk to forage over the non-native annual grasslands within the Project Site. However, the Project Site was anticipated to be developed within the WRSP and the WRSP EIR accordingly provides for the preservation of grasslands developed in consultation with CDFW to address impacts due to loss of grassland foraging habitat (refer to WRSP EIR MM 4.7-8). MM 4.7-8 confirms that loss of habitat within a 10-mile radius of a known Swainson's hawk nest would require mitigation. As the entirety of the WRSP area is within 10 miles of a known nest site (WRSP EIR at page 4.7-48), MM 4.7-8 states that mitigation for loss of Swainson's hawk grassland foraging habitat would concurrently mitigate for loss of foraging habitat for other bird species, including white-tailed kite. MM 4.7-8 identified up to 2,204.4 acres of impacts to grassland habitat, including the Project Site, and identified 1,968.7 acres of mitigation acres to be preserved. As potential grassland foraging habitat was already mitigated for in the WRSP EIR, there would be no new impact as it relates to special-status species.

Migratory Birds

Suitable habitat for nesting birds protected under the CFGC, as well as the MBTA occurs on and within 500 feet of the Project Site. Nesting migratory birds and raptors could be affected if vegetation removal or loud noise-producing activities associated with construction commence during the general nesting season (February 15 through September 15). Disturbance of an active nest would constitute a significant impact. The WRSP EIR identified the potential for construction within the WRSP Area to generate a significant impact and included MM 4.7-6 Avoid Nesting Sites and MM 4.7-7 Nest Protection Policies. However, these mitigation measures required a pre-construction nesting bird survey to be completed within 30 days of construction and on and within 350 feet of impact areas. Updated agency guidance on pre-construction nesting bird surveys suggests that a nest could establish within 30 days, and that impacts to nests could occur beyond 350 feet. Therefore, even with mitigation included in the WRSP EIR, there is still the potential for significant impacts to nesting birds. Therefore, **Mitigation Measure BIO-1** requires the pre-construction survey to occur within 5 days of construction and increases the survey area to within 500 feet of the Project Site, as accessible. With implementation of **Mitigation Measure BIO-1**, impacts to nesting birds would be less than significant. Therefore, the Proposed Project would have a less-than-significant impact with additional mitigation.

Question B

Would the project: Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by CDFW and the USFWS?

No New Impact. Sensitive habitat is not present on the Project Site (**Attachment F**). There is, however, a stockpond with associated seasonal wetlands and a seasonal wetland swale located directly north of the Project Site. However, no direct impacts to these habitats would occur, as a SWPPP would be implemented throughout construction to ensure off-site habitats are not significantly impacted (refer to **Section 3.11**). Additionally, the Proposed Project design includes vegetated bioswales to capture and treat runoff during operation**.** As sensitive habitats would not be impacted by the Proposed Project, no new impact would occur.

Question C

Would the project: Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No New Impact. There are no aquatic habitats on the Project Site, and direct impacts to aquatic habitat would not occur. There is a stockpond, seasonal wetland, and seasonal wetland swale located directly north of the Project Site. As discussed in **Section 3.11**, the Proposed Project has been designed to avoid these aquatic features, reduce potential runoff, and include the development of 25,926-sf of bioremediation (bioswales) planted with filtering vegetation throughout the Project Site, as seen on **Figure 2-4**. Construction runoff would be monitored through a SWPPP, as discussed in **Sections 2.4** and **3.11**. There would be no new impact.

Question D

Would the project: Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

No new impact. As discussed in **Attachment F**, the Project Site does not contain wildlife movement corridors and would not impact off-site corridors and undeveloped land. No nursery sites were observed on the Project Site during the survey. No new impact would occur.

Question E

Would the project: Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

No New Impact. The City has a tree protection ordinance. Up to 24 trees would be removed by the Proposed Project, as described in Section 4.1 of **Attachment F**. Of these, nine are interior live oaks. Removal of living native oaks exceeding 6 inches dbh would require a tree removal permit. Oaks proposed to be removed do not exceed 10 inches dbh and are in various stages of health. As required by the City's Municipal Code, a tree inventory report would be prepared and the appropriate tree permits acquired. Impact 4.7-8 of the WRSP EIR evaluated the potential for removal of oaks greater than 6 inches dbh to result in a significant impact. Because precise development plans for the WRSP were not available at the time of the EIR analysis, the WRSP EIR assumed that any oaks outside of the floodplain

may be removed. The WRSP EIR acknowledged that initial impacts from oak tree removal would be significant and unavoidable in the short term, but that adherence to the tree protection ordinance would reduce the long-term potential impacts to a less-than-significant level by requiring replacement of removed trees. Additionally, the WRSP EIR identified 685 acres of open space in the WRSP area to be preserved (WRSP EIR at 4.7-55), which targeted preservation of areas with significant oak woodland, including areas adjacent to Pleasant Grove Creek, Kaseberg Creek, and woodland on Fiddyment Ranch. A total of 45.6 acres of land were identified for oak tree mitigation areas for the necessary replanting of oaks removed pursuant to a tree removal permit (Figure 4.7-7 of the WRSP EIR). It was determined that the mitigation area would be planted with 6,840 oak trees to replace trees removed during development or the WRSP EIR. Because the Proposed Project would adhere to the tree protection ordinance, and because the WRSP EIR identified suitable mitigation options consistent with the tree protection ordinance, no new impact would occur.

The City's Open Space Preserve Overarching Management Plan was prepared in order to standardize the City's management of open space areas. This Plan was prepared following completion of the WRSP EIR and acknowledges the preservation of open space pursuant to the WRSP EIR in addition to other City-managed open space areas. This Plan does not designate new open space areas, rather, it provides guidance on the process of acquiring open space and management of open space to standardize monitoring and maintenance activities throughout the City's open space areas over time. Because proposed development areas and open space areas were already identified in the WRSP EIR prior to creation of the Open Space Preserve Overarching Management Plan, the Project Site is not identified as an open space area. The Proposed Project would not impede open space preserve areas and would not conflict with this plan.

The City's General Plan contains several policies related to biological resources, including avoidance of sensitive habitat impacts, use of a buffer between development and aquatic/riparian habitat, and minimizing tree removal. The Project Site has been defined in the development stage to exclude potentially sensitive habitat by providing a buffer between development and the off-site aquatic habitat. Up to nine protected trees would be removed as part of the Proposed Project. As discussed above, protected trees would be removed pursuant to a tree removal permit, which would require inch for inch replacement of removed trees. The Proposed Project would not conflict with the General Plan. The Proposed Project would not conflict with local policies or ordinances. Therefore, no new impact would occur.

Question F

Would the project: Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

No New Impact. The County has adopted the Placer County Conservation Program, which includes a Habitat Conservation Plan. However, the City is a non-participating city and is not subject to the Placer County Conservation Program. There are no other Habitat Conservation Plans, Natural Community Conservation Plans, or other conservation plans that include the Project Site. As the Proposed Project would not conflict with existing conservation plans, no new impacts would occur.

Cumulative Impacts

No New Impact. As discussed under **Question A**, the Proposed Project would not introduce a new impact compared to the WRSP EIR, however, **Mitigation Measure BIO-1** has been included to address updates to agency guidelines on nesting bird surveys. Impacts would be limited to a small portion of grasslands that may support white-tailed kite and Swainson's hawk foraging, and potential impacts to nesting birds. As discussed above, **Mitigation Measure BIO-1** would avoid impacts to nesting birds and would not contribute to cumulative impacts. Further, although the Proposed Project would impact a relatively insignificant amount of white-tailed kite and Swainson's hawk foraging habitat, mitigation contained within the WRSP EIR already provides for preservation of grasslands developed in consultation with CDFW to address impacts due to loss of grassland foraging habitat to ensure a cumulatively significant loss of grasslands would not occur.

As discussed above in **Questions B** and **C**, there are no sensitive habitats on the Project Site, including wetlands or waters of the U.S. or State. No direct impacts would occur and potential indirect impacts to off-site habitat would be reduced through implementation of a SWPPP during construction and use of vegetated bioswales during operation. Additionally, as discussed in **Questions D** and **F**, there are no wildlife corridors or nursery sites on the Project Site, and no habitat conservation plans that would apply to the Project Site. Therefore, the Proposed Project would not contribute to the cumulative impact environment related to these resources, and no new impact would occur compared to the cumulative impact analysis present in the WRSP EIR.

Finally, as discussed under **Question E**, the Proposed Project would comply with local policies and regulations, both those considered in the WRSP EIR, and those developed or updated since completion of the WRSP EIR. Therefore, there would be no cumulative impacts related to local policies or ordinances.

Based on the above, the cumulative impacts that could be generated by the Proposed Project are within the scope of those addressed in the WRSP EIR. Therefore, no new impact would occur.

3.5.4 MITIGATION MEASURES

BIO-1 Nesting Birds

If construction activities (e.g., building, grading, ground disturbance, removal of vegetation) are scheduled to occur during the general nesting season (February 15—August 30), a pre-construction nesting bird survey shall be conducted by a qualified biologist throughout areas of suitable habitat on and within 500 feet of proposed construction activity. The survey shall occur no more than 5 days prior to the scheduled onset of construction. If construction is delayed or halted for more than 5 days, another pre-construction survey for nesting bird species shall be conducted. If no nesting birds are detected during the pre-construction survey, no additional surveys or mitigation measures are required.

If nesting bird species are observed within 500 feet of construction areas during the survey, appropriate "no construction" buffers shall be established. The size and scale of nesting bird buffers shall be determined by a qualified biologist and shall be dependent upon the species observed and the location of the nest. Buffers shall be established around active nest locations. The nesting bird buffers shall be

completely avoided during construction activities. The buffers may be removed when the qualified wildlife biologist confirms that the nest(s) is no longer occupied and all birds have fledged.

3.6 CULTURAL RESOURCES

Information in this section is summarized from a Cultural Resources Letter Report prepared for the Proposed Project (**Confidential Attachment G**).

3.6.1 ENVIRONMENTAL CHECKLIST

CULTURAL RESOURCES	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?	☐	☐	☐	☒
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?	☐	☐	☐	☒
c) Disturb any human remains, including those interred outside of dedicated cemeteries?	☐	☐	☐	☒

3.6.2 SETTING

Cultural Context

Prehistoric Setting

The region in which the Project Site exists is known to contain numerous traces of past human activity ranging from early Native American sites and artifacts to the remains of historic-era agricultural and mining activities.

Late Pleistocene Period (>10,000 B.P. [Before Present])

Evidence of the earliest human occupation in the foothill and eastern Sacramento Valley is practically nonexistent. Although tools for grinding foodstuffs are occasionally found on sites dating to this period, archaeological evidence indicates that the gathering of plant material may have been only a small part of their subsistence strategy.

Early Holocene Period (ca. 10,000–7000 B.P.)

During this broad time frame, people adapted to lake, marsh, and grassland environments that were prevalent around 11,000 B.P.; however, the tradition slowly disappeared by ca. 7000 B.P.

Archaic Pattern and Period (ca. 7000–3200 B.P.)

As the central California climate became warmer and dryer, milling stones become abundant, suggesting an emphasis on the exploitation of plant resources and a lesser focus on hunting. Flaked stone tools are primarily formed from locally procured materials. Connections between the Great Basin and Central Valley appear to have been established at least by 4000 B.P., and possibly as early as 7000 B.P., as evidenced by the exchange of marine shell beads and other artifacts for obsidian from the east side of the Sierran crest.

Early-Middle Sierran Pattern (ca. 3200–600 B.P.)

This broad time period exhibits an increased use of obsidian, which may indicate an expansion in regional land use, and the regular use of certain locales. This pattern begins with a return to cool/moist climatic conditions, where forays into the Sierra may have been made by groups with resident populations in the western Sierran foothills, Central Valley, and/or Great Basin.

Late Sierran (ca. 600–150 B.P.)

Regionally, this period is characterized by continued intensive use of the western slope of the Sierra, including a significant use of acorns, but with less of a focus on seeds, exploitation of fauna, including deer and rabbits, year-round occupation of sites below 3,000–3,500 feet, and short-term seasonal occupation of mid- to high-elevation Sierran sites.

Ethnographic Setting

Ethnographically, the Project Site is in territory occupied by the Penutian-speaking Nisenan Indians. Their territory included the drainages of the Yuba, Bear, and American rivers, as well as the lower Feather River.

Politically, the Nisenan were divided into tribelets, made up of a primary village and a series of outlying hamlets, presided over by a hereditary chief. Villages typically included family dwellings, acorn granaries, a sweathouse, and a dance house. Subsistence activities centered on the gathering of acorns, seeds, and other plant resources, as well as hunting game and fishing. Large predators, such as mountain lions were hunted for their meat and skins, and bears were hunted ceremonially. Although acorns were a staple of the Nisenan diet, they also harvested roots like wild onion and “Indian potato,” which were eaten raw, steamed, baked, or dried and processed into flour cakes to be stored for winter use. Deer hunting often took the form of communal drives, involving several villages, with killing done by the best marksmen from each village. Snares, deadfalls, and decoys were used as well. Fish were caught by a variety of methods including use of hooks, harpoons, nets, weirs, traps, poisoning, and by hand (Levy, 1978; Wilson and Towne, 1978).

The Spanish arrived on the central California coast in 1769 and by 1808, Gabriel Moraga had crossed Nisenan territory. In 1833, an epidemic—probably malaria—raged through the Sacramento Valley, killing an estimated 75% of the native population. The discovery of gold in 1848 at Sutter’s Mill, near the Nisenan village of Koloma (now Coloma) on the South Fork of the American River, drew thousands of miners into the area, and led to widespread killing and the virtual destruction of traditional Nisenan culture (Wilson and Towne, 1978).

Historic Setting

The 1848 discovery of gold at Coloma in El Dorado County led to a massive influx of would-be miners, swelling California's population from 20,000 non-native people in 1848 to 100,000 in 1849 and over 200,000 by 1852. These new residents flocked first to gateway cities such as Stockton, Sacramento, and Marysville for supplies before pushing east into the gold country, a region along the western slope of the Sierra Nevada Mountains stretching from Plumas, in the north, to Fresno County in the south (Hoover et al., 2002).

Three months after Marshall's gold discovery, Claude Chana discovered gold in Placer County's Auburn Ravine. Word of the rich placer gold deposits soon spread and became the basis for the county name. Mining towns sprang up all across the county, with names like Beale's Bar, Condemned, Rattlesnake Bar, and Ophir. Most of these towns were gone as soon as the easily accessed deposits were exhausted. Others towns like Auburn, Rocklin, Roseville, and Lincoln were able to adapt and grew beyond their gold rush beginnings. By 1864, rail lines linked the towns, industrial and agricultural concerns including granite quarries around Rocklin, Rocklin, Penryn, and Newcastle. As early as 1880, western Placer County was noted for its agricultural productivity. Crops produced in the 1850s through 1870s included wheat, barley, wine grapes, hay, and orchard crops. Ranchers raised poultry, sheep, beef, and dairy cattle (Hoover et al, 2002).

The Fiddyment family has owned and operated a ranch adjacent to the Project Site since the mid-19th century. In 1854, Elizabeth Fiddyment, a widow with a son, settled in the Elk Grove area; Elizabeth met a local farmer, George Hill, and after they married they moved to the Pleasant Grove District in Roseville in 1856 to live and work with her sister's family on their farming operation. Over time, the property grew to over 13,000 acres and was worked by successive generations of the family to the present day (PAR Environmental Services [PAR], 2001).

Record Search

In 2001, PAR Environmental Services completed a survey of the Fiddyment Ranch property and surrounding areas which included the Project Site (PAR, 2001). No cultural resources were identified.

A record search was completed on March 24, 2022 at the North Central Information Center (NCIC) at Sacramento State University (NCIC File No.: PLA-22-30). The NCIC search included the Project Site and a 0.5-mile buffer zone. This record search included, but was not necessarily restricted to, a review of the National Register of Historic Places (NRHP), California Register of Historic Resources (CRHR), historical marker listings, Placer County resource listings, and historic maps.

No resources have been recorded within the Project Site, though nine have been identified within the buffer area: a prehistoric lithic scatter and resources associated with the Fiddyment Ranch. Five surveys have been completed that include areas within the southern portion of the Project Site and another nine within 0.5 miles of the Proposed Project (**Attachment G**).

Field Survey

Montrose Environmental Solutions' Senior Archaeologist, Charlane Gross, RPA, conducted a cultural resources field survey of the Project Site on April 4, 2022 using pedestrian transects spaced approximately 30 meters apart; ground surface visibility varied, but averaged approximately 40% in the majority of the Project Site. The northern portion of the Project Site was more heavily covered with thick seasonal grasses and ground surface visibility averaged less than 2%.

The Project Site was bounded by a roadway to the west, a tree row to the east, and open ground to the north and south, with a small access road near the north; a number of internal fence lines separated individual fields. There was copious evidence of earth moving activities in the form of small and large soil stockpiles, tire ruts, and small excavations, as well as a substantially raised area to the north. No cultural or paleontological resources were identified (**Attachment G**).

Regulatory Context

California Environmental Quality Act

CEQA requires that, for projects financed by or requiring the discretionary approval of public agencies in California, the effects that a project has on historical and unique archaeological resources be considered (PRC § 21083.2). Historical resources are defined as buildings, sites, structures, or objects, each of which may have historical, architectural, archaeological, cultural, or scientific importance (PRC § 50201). The CEQA *Guideline*s (§ 15064.5) define three cases in which a property may qualify as a historical resource for the purpose of CEQA review.

- The resource is listed in or determined eligible for listing in the CRHR.
- The resource is included in a local register of historic resources, as defined in PRC § 5020.1(k), or is identified as significant in a historical resources survey that meets the requirements of PRC § 5024.1(g) (unless the preponderance of evidence demonstrates that the resource is not historically or culturally significant).
- The lead agency determines that the resource may be a historical resource as defined in PRC §§ 5020.1(j), 5024.1, or significant as supported by substantial evidence in light of the whole record. Section 5024.1 defines eligibility requirements and states that a resource may be eligible for inclusion in the CRHR if it:

    1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
    2. Is associated with the lives of persons important in our past;
    3. Embodies the distinctive characteristics of a type, period, region, or method of construction, represents the work of an important creative individual, or possesses high artistic values; or
    4. Has yielded, or may be likely to yield, information important in prehistory or history.

Resources must retain integrity to be eligible for listing on the CRHR. Resources that are listed in or eligible for listing in the NRHP are considered eligible for listing in the CRHR, and thus are significant historical resources for the purposes of CEQA (PRC § 5024.1(d)(1)).

PRC § 21083.2 governs the treatment of a unique archaeological resource, which is defined as "an archaeological artifact, object, or site about which it can be clearly demonstrated" that it meets any of the following criteria:

- It contains information needed to answer important scientific research questions, and there is a demonstrable public interest in that information.
- It has a special and particular quality such as being the oldest of its type or the best example of its type.
- It is directly associated with a scientifically recognized important prehistoric or historic event or person.

3.6.3 DISCUSSION OF IMPACTS

Question A

Would the project: Cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?

No New Impact. As described above, the records search revealed that no historical resources have been recorded within the Project Site and no CRHR-eligible resources were identified during the field survey. No new impact would occur compared to the WRSP EIR.

Question B

Would the project: Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?

No New Impact. Based on the results of the records search, literature review, Native American consultation, and field survey, there are no known cultural resources within the Project Site, and the potential for unknown CRHR-eligible resources within the area of the Proposed Project is considered to be low. There is always the potential, however remote, that previously unknown archaeological resources could be encountered during subsurface construction activities. This is a potentially significant impact. However, MM 4.8-1 of the WRSP EIR includes protocols regarding inadvertent resource discovery, with work halting within 100 feet of any find of bone, shell, artifacts, human remains, or architectural remains during subsurface development activities. Implementation of WRSP MM 4.8-1 would ensure that inadvertently discovered resources that may be eligible for the NHRP or CRHR would be investigated and evaluated for eligibility to the NRHP and CRHR. No new impacts would occur requiring additional mitigation measures.

Question C

Would the project: Disturb any human remains, including those interred outside of dedicated cemeteries?

No New Impact. There is always the potential, however remote, that previously unknown human remains could be encountered during subsurface construction activities. This is a potentially significant impact. However, MM 4.8-2 of the WRSP EIR includes policies and procedures for the proper handling of cultural resources, including human remains. Implementation of WRSP MM 4.8-2 would ensure the proper handling of human remains. No new impacts would occur requiring additional mitigation measures.

Cumulative Impacts

No New Impacts. Potential cumulative projects in the vicinity of the Proposed Project area have the potential to impact cultural resources. Archaeological and historic resources are afforded special legal protections designed to reduce the cumulative effects of development. Potential cumulative projects and the Proposed Project would be subject to the protection of cultural resources afforded by CEQA *Guidelines* § 15064.5 and related provisions of the PRC. Given the non-renewable nature of cultural resources, any impact to protected sites could be considered cumulatively considerable. As discussed above, no known protected archaeological or historic resources were identified within the Proposed Project's development footprint. Mitigation measures within the WRSP EIR provide for the protection of unanticipated finds made during ground disturbing activities. With the implementation of these mitigation measures, there would be no new impact from the Proposed Project's incremental contribution to cumulative impacts to cultural resources.

3.6.4 MITIGATION MEASURES

The Proposed Project would not result in any new potentially significant impact on cultural resources not already analyzed in the WRSP EIR. Therefore, no new mitigation measures would be necessary.

3.7 ENERGY

3.7.1 ENVIRONMENTAL CHECKLIST

ENERGY	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
Would the project:				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☐	☒
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☐	☒

3.7.2 SETTING

Regulatory Context

Warren-Alquist Act

The 1974 Warren-Alquist Act (PRC § 25000 et seq.) established the California Energy Commission (CEC) and created a State policy to reduce wasteful, uneconomical, and unnecessary uses of energy by employing a range of measures. The California Legislature continues to amend the Act to address pressing energy needs and issues, and the CEC publishes an updated version of the Act each year. The 2019 edition of the Warren-Alquist Act was published in February of 2019.

State of California Integrated Energy Policy Report

Senate Bill (SB) 1389 requires the CEC to adopt an Integrated Energy Policy Report (IEPR) every two years. The IEPR contains an assessment of major energy trends and issues facing the electricity, natural gas, and transportation fuel sectors within California. The IEPR provides policy recommendations to conserve resources; protect the environment; ensure reliable, secure, and diverse energy supplies; enhance the economy of California; and protect public health and safety.

The IEPR calls for the State to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the IEPR identifies a number of strategies, including assistance to public agencies and fleet operators in implementing incentive programs for Zero Emission Vehicles and their infrastructure needs, and encouragement of urban designs that reduce vehicle miles traveled (VMT) and accommodate pedestrian and bicycle access.

The Draft 2019 IEPR was submitted for public comment on November 8, 2019 and covers a broad range of topics including decarbonizing buildings, integrating renewables, energy efficiency, energy equity, electricity reliability, climate adaptation activities for the energy sector, a natural gas assessment, a transportation energy demand forecast, and the California Energy Demand Forecast. The 2019 IEPR provides the results of the CEC assessments on a variety of energy issues facing California. Many of these issues will require action if the State is to meet its climate, clean energy, air quality, and other environmental goals while maintaining reliability and controlling costs.

California Energy Efficiency Standards

The Energy Efficiency Standards for Residential and Non-Residential Buildings (California Building Energy Efficiency Standards) specified in Title 24, Part 6 of the CCR were established in 1978 in response to a legislative mandate to reduce energy consumption in California. The standards are updated periodically to allow for consideration and possible incorporation of new energy efficiency technologies and methods. The most recent standards were adopted in 2019 and took effect on January 1, 2020 (for building permit applications submitted on or after that date). These standards are updated every three years. The new standards require better windows, insulation, lighting, ventilation systems, and other features that reduce energy consumption in homes and businesses. Non-Residential buildings are expected to use about 30% less energy compared to the 2016 Energy Efficiency Standards, primarily due to lighting upgrades.

California Green Building Standards Code

The California Green Building Standards Code (CALGreen), specified in CCR, Title 24, Part 11, is a State-wide regulatory code for all buildings, residential and commercial included. The regulations are intended to encourage more sustainable and environmentally friendly building practices, require low-pollution emitting substances that cause less harm to the environment, conserve natural resources, and promote the use of energy-efficient materials and equipment. The standards require that all new residential and non-residential development implement various energy conservation measures, including ceiling, wall, and concrete slab insulation; weather stripping on doors and windows; closeable doors on fireplaces; insulated heating and cooling ducts; water heater insulation blankets; and certified energy efficient appliances. CALGreen is updated periodically and the latest update, CALGreen 2019, became effective on January 1, 2020.

Renewables Portfolio Standard Program

The California Renewables Portfolio Standard (RPS) program was established in 2002 by SB 1078 and requires retail sellers of electricity, including investor-owned utilities and community choice aggregators, to provide a certain percentage of their supply from renewable sources. The initial requirement was that at least 20% of electricity retail sales had to be served by renewable resources by 2017. The RPS program was accelerated in 2015 with SB 350 that mandated a 50% RPS by 2030. In 2018, SB 100 was signed into law, increasing the RPS to 60% by 2030 and requiring all electricity in California to come from carbon-free resources by 2045.

Assembly Bill 1007 (Pavley)-Alternative Fuel Standards

AB 1007, (Pavley, Chapter 371, Statutes of 2005) required the CEC to prepare a State-wide plan to increase the use of alternative fuels in California; therefore, the CEC prepared the State Alternative Fuels Plan in partnership with CARB and in consultation with other local, State, and federal agencies. The final State Alternative Fuels Plan, published in December 2007, attempts to achieve an 80% reduction in GHG emissions associated with personal transportation, even as the population of California increases.

Environmental Setting

Roseville Electric provides electrical power in the City and Pacific Gas and Electric (PG&E) provides natural gas. The City purchases wholesale electrical power from both the Western Area Power Administration, which is generated by the federal government's Central Valley Project and produces 100% hydroelectric energy sources from a system of dams, reservoirs, and power plants within central and northern California. In addition, up to 50% of the City's power is generated at the City-owned REP. The REP is a 160-megawatt natural-gas-fired power plant that uses a combined cycle gas turbine technology. The City also owns the 48-megawatt combustion-turbine Roseville Power Plant 2, which is used for peaking energy. The City's electric power mix varies from year-to-year, but according to the most recent City-wide energy analysis, the mix in 2013/2014 was 25% eligible renewable (geothermal, small hydroelectric, and wind), 14% hydroelectric, 48% natural gas, and 13% from other sources (power purchased by contract) (see City of Roseville General Plan EIR Section 4.15.2).

3.7.3 DISCUSSION OF IMPACTS

Question A

Would the project: Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Construction

No New Impact. Construction of the Proposed Project would consume energy primarily from fuel consumed by construction vehicles and equipment. Fossil fuels used for construction vehicles and other equipment would be used during site clearing, grading, paving, and building. Fuel consumed during construction would be temporary in nature and would not represent a significant demand on available fuel. There are no unusual characteristics that would necessitate the use of construction equipment that would be less energy efficient than at comparable construction sites in the region or State.

Additionally, mitigation measures would provide fuel and energy reduction during construction. Overall fuel and energy reductions are difficult to quantify; however, certain air quality emission reduction measures would also reduce fuel and electricity use during construction of the Proposed Project. **Mitigation Measure AQ-1** would reduce energy consumption by requiring the contractor to minimize equipment idling time. Additionally, all diesel-fueled construction vehicles would be required to meet the latest emissions standards. These measures would further reduce fuel and energy use during all stages of construction and avoid the wasteful, inefficient, or unnecessary consumption of fuel energy. Therefore, construction of the Proposed Project would not result in inefficient, wasteful, or unnecessary

consumption of fuel energy as it would comply with relevant standards and no new impact would occur when compared to the WRSP EIR.

Operation

No New Impact. Energy would be required for powering the stadium lighting, parking lot lighting, accessory structure lighting, security systems, and EV charging stations (approximately 191 EV charging stations). The estimated maximum energy load calculations for the Proposed Project are approximately 2,480 kw of energy (i.e., full use of all 10 sports fields, all power outlets, and all EV charging stations). It should be noted that it is unlikely that the full energy load would be utilized at one given time. Refer to Sheet E0.1 of **Attachment B** for detailed Electrical Plans. As described in **Section 2.3.4,** solar panels would be constructed on the roofs of shade structures within the parking lot. During Phase 1, approximately 77,760 sf of solar panels are expected to be installed, with approximately 51,120 sf of solar panels anticipated in Phase 2. Solar energy would not power the Proposed Project; however, the solar energy would be placed back into the Roseville Electric grid, which would offset some of the energy consumed by the Proposed Project. Additionally, the Proposed Project would be designed and constructed to comply with the applicable requirements of the California Building Code and CALGreen. Accordingly, the Proposed Project would not result in the wasteful, inefficient, or unnecessary consumption of energy resources. Therefore, this impact would be less than significant and no new impact would occur when compared to the WRSP EIR.

Question B

Would the project: Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

No New Impact. As described above, the Proposed Project would comply with applicable State and local energy standards, such as the California Building Code, CALGreen, and the City Community Design Guidelines. Therefore, the Proposed Project would not conflict with a State or local plan for renewable energy or energy efficiency and no new impact would occur when compared to the WRSP EIR.

Cumulative Impacts

No New Impact*.* With regard to energy usage, the California Public Utilities Commissions' Long Term Procurement Plan (LTPP) proceedings were established to ensure a safe, reliable, and cost-effective electricity supply in California. A major component of the LTPP proceeding addresses the overall long-term need for new system reliability resources, including the adoption of system resource plans. These resource plans allow the California Public Utilities Commission to comprehensively assess the impacts of energy policies for the State based on the need for new resources. As discussed above, several aspects of the Proposed Project, such as compliance with CALGreen and the use of solar panels, would help manage the amount and efficiency of energy consumption and would ensure that the related consumption is not inefficient, wasteful, or unnecessary, or place a significant demand on regional energy supplies. Therefore, impacts to energy resources resulting from the Proposed Project, combined with other past, present, or reasonably foreseeable future projects, would not result in a cumulative impact to which the proposed project would have a cumulatively considerable contribution.

3.7.4 MITIGATION MEASURES

The Proposed Project would not result in any new potentially significant impact regarding energy resources not already analyzed in the WRSP EIR. Therefore, no new mitigation measures would be necessary.

3.8 GEOLOGY/SOILS

3.8.1 ENVIRONMENTAL CHECKLIST

GEOLOGY/SOILS	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map, issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. ii) Strong seismic ground shaking? iii) Seismic-related ground failure, including liquefaction? iv) Landslides?	☐	☐	☐	☒
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☐	☒
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☐	☐	☒
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☐	☒
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☐	☐	☒

3.8.2 SETTING

Regulatory Setting

Federal Earthquake Hazards Reduction Act

In October 1997, the U.S. Congress passed the National Earthquake Hazards Reduction (NEHR) Act to "reduce the risks to life and property from future earthquakes in the United States through the establishment and maintenance of an effective earthquake hazards and reduction program." To accomplish this, the act established the National Earthquake Hazards Reduction Program (NEHRP). This program was significantly amended in November 1990 by the NEHR Act, which refined the description of agency responsibilities, program goals, and objectives.

The mission of NEHRP includes improved understanding, characterization, and prediction of hazards and vulnerabilities, improvement of building codes and land use practices, risk reduction through post-earthquake investigations and education, development and improvement of design and construction techniques, improvement of mitigation capacity, and accelerated application of research results. The NEHR Act designates Federal Emergency Management Agency (FEMA) as the lead agency of the program and assigns it several planning, coordinating, and reporting responsibilities. Other NEHR Act agencies include the National Institute of Standards and Technology, National Science Foundation, and the U.S. Geological Survey (USGS).

Alquist-Priolo Earthquake Fault Zoning Act

The Alquist-Priolo Earthquake Fault Zoning Act was passed by the California Legislature to mitigate the hazard of surface faulting to structures. The Act's main purpose is to prevent the construction of buildings used for human occupancy on the surface trace of active faults. The Act addresses only the hazard of surface fault rupture and is not directed toward other earthquake hazards. Local agencies must regulate most development in fault zones established by the State Geologist. Before a project can be permitted in a designated Alquist-Priolo Fault Study Zone, cities and counties must require a geologic investigation to demonstrate that proposed buildings would not be constructed across active faults.

California Seismic Hazards Mapping Act

The California Seismic Hazards Mapping Act of 1990 (PRC §§ 2690–2699.6) addresses seismic hazards other than surface rupture, such as liquefaction and induced landslides. The Seismic Hazards Mapping Act specifies that the lead agency for a project may withhold development permits until geologic or soils investigations are conducted for specific sites and mitigation measures are incorporated into plans to reduce hazards associated with seismicity and unstable soils.

National Pollutant Discharge Elimination System Permit

The SWRCB administers regulations and permitting for the USEPA (55 CFR 47990) for pollution generated from stormwater under the NPDES. There are nine RWQCBs that implement the SWRCB's jurisdiction and require that an operator of any construction activities with ground disturbances of 1.0 acre or more obtain a Construction General Permit through the NPDES Stormwater Program. The Project Site is within the jurisdiction of the CVRWQCB. The Construction General Permit requires that the implementation of best management practices (BMP) be employed to reduce sedimentation into

surface waters and control erosion. The preparation of a SWPPP addresses control of water pollution that includes the effects of sediments in the water during construction activities. These elements are further explained within **Section 3.11**.

California Building Standards Code

The State provides minimum standards for building design through the California Building Standards Code (CBC) (CCR Title 24). Where no other building codes apply, Chapter 29 regulates excavation, foundations, and retaining walls. The CBC also applies to building design and construction in the State and is based on the International Building Code used widely throughout the country (generally adopted on a state-by-state or district-by-district basis). The CBC has been modified for California conditions with numerous more detailed and/or more stringent regulations.

Roseville General Plan

Applicable City General Plan goals, policies, and objectives include:

Safety Element

Goal SAFE 1.1 Minimize injury and property damage due to seismic activity and geologic hazards.

Policy SAFE 1.2 Continue to mitigate the potential impacts of geologic hazards through building plan review.

Policy SAFE 1.3 Minimize soil erosion and sedimentation through suitable building placement, maximum lot coverage standards, context-sensitive designs, and appropriate construction techniques.

Environmental Setting

Regional Setting

The Project Site is located in the Great Valley geomorphic province (Province) of California (DOC, 2002). The Province lies between the Coastal Ranges and Sierra Nevada provinces in California and stretches from Redding to the north and continues south to Bakersfield. The Great Valley is an alluvial plain that is approximately 50 miles wide and 400 miles long where sediment has been deposited almost continually for roughly 160 million years. The major topographic feature in the Sacramento Valley is a volcanic remnant, the Sutter Buttes, rising approximately 1,980 feet above the surrounding valley floor. The Sutter Buttes are located approximately 42 miles north of the City. Other significant features are the Sierra Nevada Mountain Range to the east and the Coast Mountain Range to the west.

Site Topography

The topography of the Project Site is relatively flat, with elevation ranging from approximately 90 feet to 100 feet amsl. According to CGS's Geologic Map of California, the dominant rock type in the vicinity of the Project Site is Type QPc, which is a Pliocene-Pleistocene period type characterized by Pliocene and/or Pleistocene sandstone, shale, and gravel deposits (DOC, 2015a). In addition, there are no mapped landslides or landslide features on the Project Site (DOC, 2015b).

Seismicity and Fault Zones

The Project Site is located in a relatively moderate seismic hazard area (USGS, 2018). The Alquist-Priolo Act defines active faults as those that have shown seismic activity during the Holocene period, approximately the past 11,000 years, while potentially active faults are those that have shown activity within the Quaternary period, or the past 1.8 million years. The closest faults to the Project Site are a complex of faults near Auburn, California approximately 20 miles east of the Project Site, which include the Deadmand Fault, Maidu Fault, and Bearn Mountain Fault Zone (DOC, 2015c).

Soils

Soil types on the Project Site primarily consist of Cometa-Fiddyment complex and Cometa-Ramona sandy loams which are soil types typical of areas with low slopes and are well-drained (**Figure 3-3**; NRCS, 2022). A soil type's potential to induce electrochemical or chemical action that corrodes or weakens concrete is known as "risk of corrosion." The rate of corrosion of concrete is based mainly on the sulfate and sodium content, texture, moisture content, and acidity of the soil. Both soil types on the Project Site have a low corrosion rating.

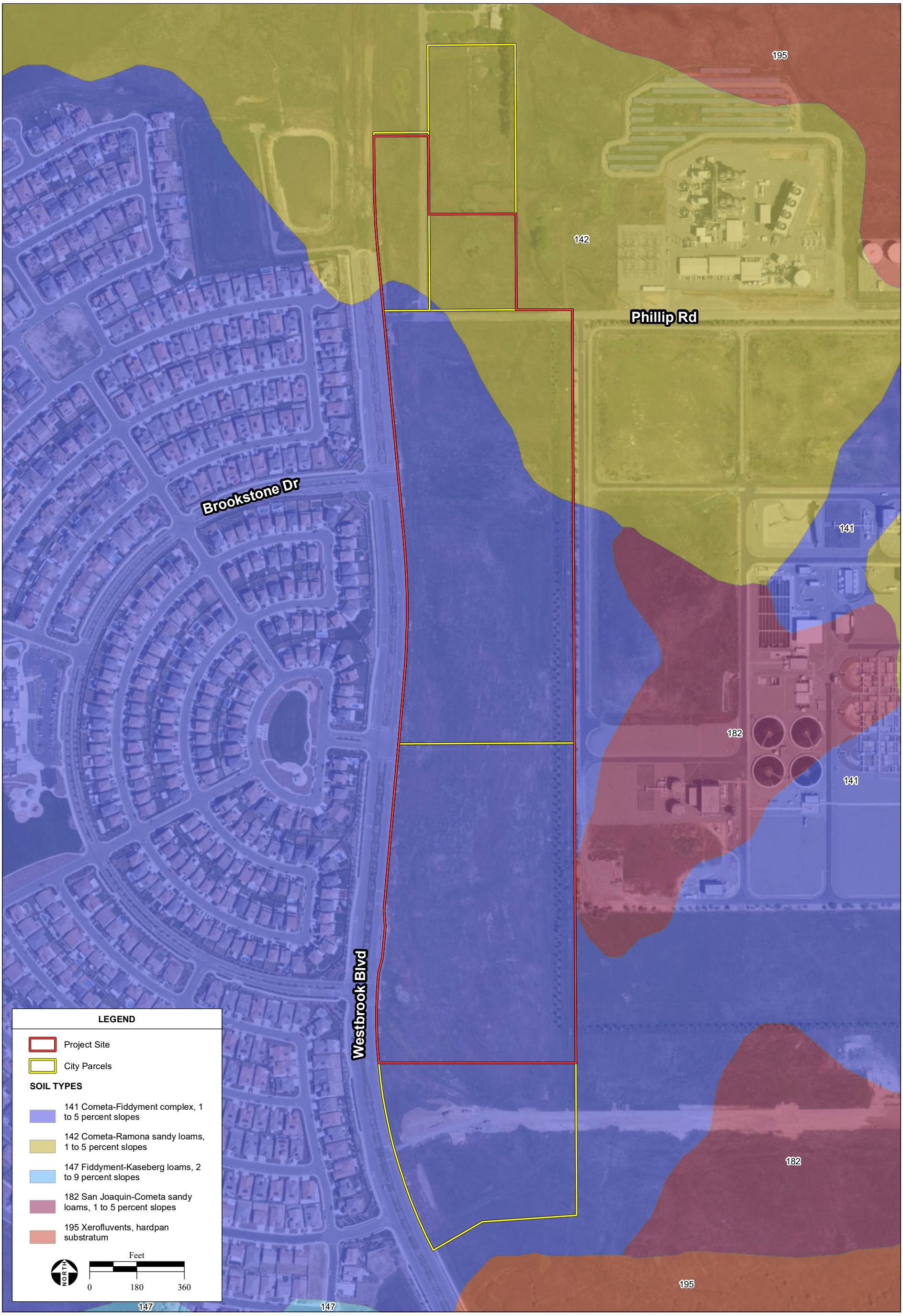
Liquefaction is the sudden loss of soil strength caused by seismic forces acting on water-saturated, granular soil, leading to a "quicksand" condition generating various types of ground failure. Soils comprised of sand and sandy loams that are in areas with high groundwater tables or high rainfall are subject to liquefaction. Soils on the Project Site are well drained and the groundwater table is deep; therefore, there is a low risk of liquefaction at the Project Site (NRCS, 2022). Expansive soils normally have a high clay and water content, and a high shrink-swell potential, with a plasticity index of 15 or greater. The primary soils on the Project Site have a plasticity index of 9.1% or less, which suggests that the soils are not susceptive to expansion (NRCS, 2022).

3.8.3 DISCUSSION OF IMPACTS

Question A

Would the project: Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving ((i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map, issued by the State Geologist for the area or based on other substantial evidence of a known fault. Refer to Division of Mines and Geology Special Publication 42; ii) Strong seismic ground shaking; iii) Seismic-related ground failure, including liquefaction; iv) Landslides?

No New Impact. Although the Project Site is located in an area that may be subject to seismic ground shaking in the future, there are no mapped surface faults on the Project Site that would have the potential to rupture (DOC, 2021a). The closest faults to the Project Site are a complex of faults near Auburn, California approximately 20 miles east of the Project Site, which include the Deadmand Fault, Maidu Fault, and Bearn Mountain Fault Zone (DOC, 2015c). Although seismic ground shaking could occur, as noted in the WRSP EIR (refer to Section 4.6 of the WRSP EIR), compliance with the CBC would require seismic design response spectrum to be established and incorporated into the design of all new structures. Any new structures and utilities would be designed to withstand seismic forces per CBC



SOURCE: USDA NRCS Soil Survey of Placer County, updated 9/3/2021; Placer County Parcels, 2018; City of Roseville aerial photograph, 4/22/2019; Montrose Environmental, 6/20/2022

Figure 3-3
Soil Types

requirements. Therefore, these construction standards would minimize the seismic ground shaking effects on developed structures to a less-than-significant level. The WRSP EIR discussed the potential for impacts to geology and soils and concluded that the WRSP would not result in any significant impacts to geology and soils, and therefore no mitigation was required. The WRSP EIR indicated that compliance with existing regulations and permit requirements would be sufficient to avoid impacts related to these issues. This conclusion remains appropriate for the Proposed Project because there is no new information indicating that geologic conditions are different than previously understood. No new impact would occur when compared to the WRSP EIR.

Question B

Would the project: Result in substantial soil erosion or the loss of topsoil?

No New Impact. Construction of the Proposed Project would involve grading and earth moving activities, as well as construction of various components. Construction would result in the temporary disturbance of soil and would expose disturbed areas to potential storm events, which could generate accelerated runoff, localized erosion, and sedimentation. Construction activities could exacerbate soil erosion and result in the loss of topsoil; this is a potentially significant impact. However, the Proposed Project would be required to comply with the NPDES Construction General Permit and prepare a SWPPP, as discussed in **Section 3.11**. This includes limiting ground disturbance areas, restoring disturbed areas to pre-construction contours, installing erosion control measures, and revegetating. Coverage under the NPDES Construction General Permit and adherence to a SWPPP would ensure that potential impacts resulting from soil erosion or the loss of topsoil would be reduced to a less-than-significant level. Additionally, the Proposed Project includes an Erosion and Sediment Control Plan, which ensures that the Proposed Project would implement and incorporate City's BMPs related to erosion (refer to Sheet L2.1 of **Attachment B**). Additionally, the Proposed Project is a less intensive footprint and use than originally proposed under the WRSP EIR and represents a smaller project site area (approximately 51 acres as opposed to 75.15 acres). No new impact would occur when compared to the WRSP EIR.

Question C

Would the project: Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

No New Impact. As described above, soils on the Project Site are well-drained and the groundwater table is deep; therefore, there is a low risk of liquefaction at the Project Site. Furthermore, the Project Site is not located on an unstable geologic unit or soil (NRCS, 2022). Therefore, the Proposed Project would not expose people or structures to substantial adverse effects from liquefaction, landslides, or unstable geologic units or soils; no new impact would occur when compared to the WRSP EIR.

Question D

Would the project: Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

No New Impact. Expansive soils normally have a plasticity index of 15 or greater. The primary soils on the Project Site have a plasticity index of 9.1% or less, which suggests that the soils are not susceptive to expansion (NRCS, 2022). Additionally, development of any structures on the Project Site would be required to comply with the CBC, which would ensure risks related to potentially expansive soils are reduced. Therefore, the Proposed Project would not create a substantial direct or indirect risk to life or property due to expansive soils; no new impact would occur when compared to the WRSP EIR.

Question E

Would the project: Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

No New Impact. The Proposed Project does not include the installation of septic tanks but would rather connect to the City sewer system. No new impacts would occur when compared to the WRSP EIR.

Question F

Would the project: Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

No New Impact. As described in **Section 3.6**, no paleontological resources were observed within the Project Site. However, there is always the potential, however remote, that previously unknown unique paleontological resources or sites could be encountered during subsurface construction activities. This is a potentially significant impact. In the event that paleontological resources or sites are found, MM 4.8-1, MM 4.8-2, MM 4.8-10, and MM 4.8-11 of the WRSP EIR would ensure that the Proposed Project would not directly or indirectly destroy a unique paleontological resource, site, or human remains. Furthermore, no unique geological features are present on the Project Site. After implementation of mitigation measures, impacts to paleontological resources would be less than significant. No new impacts would occur that would require additional mitigation.

Cumulative Impacts

Less than Significant impact with Additional Mitigation*.* Implementation of the Proposed Project and other potential cumulative projects in the region could result in increased erosion and soil hazards, expose additional structures and people to seismic hazards, and potentially damage unique paleontological resources or sites. These impacts are mitigatable with implementation of construction-period erosion control programs, standard seismic safety measures incorporated in building design, and procedures for inadvertent paleontological discoveries. The Proposed Project would incorporate WRSP EIR MM 4.8-1, MM 4.8-2, MM 4.8-10, and MM 4.8-11 to ensure a less than significant effect; therefore, the Proposed Project's contribution to potential cumulative impacts would be less than significant.

3.8.4 MITIGATION MEASURES

The Proposed Project would not result in any new potentially significant impact to geological resources not already analyzed in the WRSP EIR. Therefore, no new mitigation measures would be necessary.

3.9 GREENHOUSE GAS EMISSIONS

3.9.1 ENVIRONMENTAL CHECKLIST

Greenhouse Gas Emissions	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
Would the project:				
a) Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☐	☒
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?	☐	☐	☐	☒

3.9.2 SETTING

Regulatory Setting

The following regulatory background gives context to the issues of climate change and importance to reducing GHGs in California.

State and Local

Assembly Bill 1493

Signed by the California Governor in 2002, AB 1493 requires that CARB adopt regulations requiring a reduction in GHG emissions emitted by cars in the State. AB 1493 is intended to apply to 2009 and newer vehicles. On June 30, 2009, the USEPA granted a necessary CAA waiver for California to implement AB 1493.

Executive Order S-3-05

Executive Order (EO) S-3-05 was signed by the California Governor on June 1, 2005 and established the following State-wide emission reduction targets:

- Reduce GHG emissions to 2000 levels by 2010.
- Reduce GHG emissions to 1990 levels by 2020.
- Reduce GHG emissions to 80% below 1990 levels by 2050.

EO S-3-05 created a Climate Action Team (CAT) headed by the California Environmental Protection Agency that included several other State agencies. The CAT is tasked by EO S-3-05 with outlining the effects of climate change on California and recommending an adaptation plan, as well as creating a strategy to meet the emission reduction targets.

California Global Warming Solutions Act of 2006 (AB-32)

Signed by the California Governor on September 27, 2006, AB 32 codifies a key requirement of EO S-3-05, specifically the requirement to reduce GHG emissions in California to 1990 levels by 2020. AB 32 tasks CARB with monitoring State sources of GHGs and designing emission reduction measures to comply with emission reduction requirements. However, AB 32 also continues the efforts of the CAT to meet the requirements of EO S-3-05 and states that the CAT should coordinate overall State climate policy.

To accelerate the implementation of emission reduction strategies, AB 32 requires that CARB identify a list of discrete early action measures that can be implemented relatively quickly. In October 2007, CARB published a list of early action measures that it estimated could be implemented and would serve to meet about 25% of the required 2020 emissions reductions (CARB, 2007). To assist CARB in identifying early action measures, the CAT published a report in April 2007 that updated their 2006 report and identified strategies for reducing GHG emissions (USEPA, 2007). In its October 2007 report, CARB cited the CAT strategies and other existing strategies that can be utilized to achieve the remainder of the emissions reductions (CARB, 2007). AB 32 requires that CARB prepare a comprehensive "scoping plan" that identifies all strategies necessary to fully achieve the required 2020 emissions reductions. Consequently, in December 2008, CARB released its scoping plan to the public; the plan was approved by CARB on December 12, 2008. An update to the Climate Change Scoping Plan occurred on May 22, 2014 and included new strategies and recommendations to ensure reduction goals of near-term 2020 are met with consideration of current climate science.

A second update to the Climate Change Scoping Plan was adopted on December 14, 2017. The 2017 Scoping Plan Update addresses the 2030 target established by SB 32, as discussed below, and establishes a proposed framework of action for California to meet a 40% reduction in GHG by 2030 compared to 1990 levels. The key programs that the 2017 Scoping Plan Update builds on include the Cap-and-Trade Regulation, the Low Carbon Fuel Standard, an increase in the use of renewable energy in the State, and a reduction of methane emissions from agricultural and other wastes (CARB, 2017).

Executive Order S-01-07

EO S-01-07 was signed by the California Governor on January 18, 2007. It mandates a State-wide goal to reduce the carbon intensity of transportation fuels by at least 10% by 2020. This target reduction was identified by CARB as one of the AB 32 early action measures in the October 2007 report (CARB, 2007).

Senate Bill 375

SB 375 was approved by the California Governor on September 30, 2008. SB 375 provides for the creation of a new regional planning document called a "Sustainable Communities Strategy" (SCS). An SCS is a blueprint for regional transportation infrastructure and development that is designed to reduce GHG emissions from cars and light trucks to target levels set by CARB for 18 regions throughout California. Each of the various metropolitan planning organizations must prepare an SCS that is included in their respective regional transportation plan. An SCS influences transportation, housing, and land use planning. CARB then determines whether the SCS will achieve regional GHG emissions reduction goals.

Senate Bill 605

On September 21, 2014, the California Governor signed SB 605 that requires CARB to complete a comprehensive strategy to reduce emissions of short-lived climate pollutants in the State no later than January 1, 2016. As defined in the statute, short-lived climate pollutant means "an agent that has a relatively short lifetime in the atmosphere, from a few days to a few decades, and a warming influence on the climate that is more potent than that of carbon dioxide." SB 605, however, does not prescribe specific compounds as short-lived climate pollutants or add to the list of GHGs regulated under AB 32. In developing the strategy, CARB completed an inventory of sources and emissions of short-lived climate pollutants in the State based on available data, identified research needs to address any data gaps, identified existing and potential new control measures to reduce emissions, and prioritized the development of new measures for short-lived climate pollutants that offer co-benefits by improving water quality or reducing other air pollutants that impact community health and benefit disadvantaged communities.

The final strategy released by CARB in March 2017 focuses on methane (CH_4), black carbon, and fluorinated gases, particularly hydrofluorocarbons (HFC), as important short-lived climate pollutants. The final strategy recognizes emission reduction efforts implemented under AB 32 (e.g., refrigerant management programs) and other regulatory programs (e.g., in-use diesel engines and solid waste diversion). The measures identified in the final strategy and their expected emission reductions will feed into the update to the CARB Scoping Plan.

Executive Order B-30-15

EO B-30-15 was signed by the California Governor on April 29, 2015. It sets interim GHG targets of 40% below 1990 by 2030, to ensure California will meet its 2050 targets set by EO S-3-05. It also directs CARB to update the Climate Change Scoping Plan. The 2030 Target Scoping Plan Concept Paper was released on June 17, 2016.

Senate Bill 350

SB 350 codifies the GHG targets for 2030 set by EO B-30-15. To meet these goals, SB 350 also raises the California RPS from 33% renewable generation by 2020 to 50% renewable generation by December 31, 2030.

Senate Bill 32

Additionally, SB 32, signed in 2016, further strengthens AB 32 with goals of reducing GHG emissions to 40% below 1990 levels by 2030. Based on GHG emissions inventory data compiled by CARB through 2017 and the emission limit of 431 million metric tons (MT) of carbon dioxide equivalents (CO_2e) established in the Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report, California emission reduction goals for near-term 2020 will be met.

California Renewable Portfolio Standards - SB 1078, SB 350, and SB 100

The California RPS Program was established in 2002 by SB 1078 and requires retail sellers of electricity, including investor-owned utilities and community choice aggregators, to provide a certain percentage of their supply from renewable sources. The initial requirement was for at least 20% of electricity retail sales to be served by renewable resources by 2017. The RPS program was accelerated in 2015 with

SB 350 which mandated a 50% RPS by 2030. In 2018, SB 100 was signed into law, which again increased the RPS to 60% by 2030 and requires all electricity in the State to come from carbon-free resources by 2045.

Title 20 Appliance Efficiency Regulations

California's Appliance Efficiency Regulations, CCR Title 20, contain standards for both federally regulated appliances and non-federally regulated appliances. The regulations are updated regularly to allow consideration of new energy efficiency technologies and methods. The current standards were adopted by the CEC in 2018. The standards outlined in the regulations apply to appliances that are sold or offered for sale in California. More than 23 different categories of appliances are regulated, including refrigerators, freezers, water heaters, washing machines, dryers, air conditioners, pool equipment, and plumbing fittings.

California Energy Efficiency Standards (Title 24)

The State regulates energy consumption under Title 24 Building Standards Code, Part 6 of the CCR (also known as the CEC). The Title 24 Building Energy Efficiency Standards were developed by the CEC and apply to energy consumed for heating, cooling, ventilation, water heating, and lighting in new residential and non-residential buildings. The CEC is updated every three years, with the most recent iteration (2016) effective as of January 1, 2017, and the next version (2019) planned to go into effect on January 1, 2020. The CEC's long-term vision is that future updates to the CEC will support zero-net energy for all new single-family and low-rise residential buildings by 2020 and new high-rise residential and non-residential buildings by 2030.

California Green Building Standards Code

Title 24 Building Standards Code, Part 11 of the CCR is referred to as the CALGreen Code. The purpose of the CALGreen Code is to improve public health, safety, and general welfare by enhancing the design and construction of buildings through the use of building concepts having a positive environmental impact and encouraging sustainable construction practices in the following categories: 1) planning and design; 2) energy efficiency; 3) water efficiency and conservation; 4) material conservation and resource efficiency; and 5) environmental air quality. Refer to **Section 3.7** for additional information on Title 24 requirements.

CEQA Guidelines

To evaluate the impacts of projects on global climate change, the PCAPCD has established significance thresholds for GHG emissions. Significance thresholds used in this analysis are from the PCAPCD document *Placer County Air Pollution Control District Policy – Review of Land Use Projects Under CEQA* (PCAPCD, 2021). The PCAPCD GHG emissions thresholds are shown in **Table 3-6**.

TABLE 3-6. PCAPCD CEQA GHG THRESHOLDS OF SIGNIFICANCE

BRIGHT-LINE THRESHOLD			
10,000 MT CO_2e/yr			
EFFICIENCY MATRIX			
Residential		**Non-Residential**	
Urban	**Rural**	**Urban**	**Rural**
MT CO_2e/capita		MT CO_2e/1,000 sf	
4.5	5.5	26.5	27.3
DE MINIMIS LEVEL			
1,100 MT CO_2e/yr			

Note: CO_2e = carbon dioxide equivalent; MT = metric ton; sf = square foot

Source: PCAPCD, 2021

The PCAPCD Policy notes the following in describing how each of the thresholds should be applied:

1. Bright-line threshold of 10,000 MT of CO_2e per year for the construction and operational phases of land use projects as well as the stationary source projects,
2. *De minimis* level for the operational phases of 1,100 metric tons of CO_2e per year, and
3. Efficiency matrix for the operational phase of land use development projects when emissions exceed the *de minimis* level.

Environmental Setting

"Global warming" and "climate change" are common terms used to describe the increase in the average temperature of the earth's near-surface air and oceans since the mid-20th century. Natural processes and human actions have been identified as impacting climate. The IPCC has concluded that variations in natural phenomena such as solar radiation and volcanoes produced most of the warming from pre-industrial times to 1950 and had a small cooling effect afterward. Since the 19th century however, increasing GHG concentrations resulting from human activity such as fossil fuel combustion, deforestation, and other activities are believed to be a major factor in climate change. GHGs in the atmosphere naturally trap heat by impeding the exit of solar radiation that has hit the earth and is reflected back into space—a phenomenon sometimes referred to as the "greenhouse effect." Some GHGs occur naturally and are necessary to keep the earth's surface inhabitable. However, increases in the concentrations of these gases in the atmosphere during the last 100 years have trapped solar radiation and decreased the amount that is reflected back into space, intensifying the natural greenhouse effect and resulting in the increase of global average temperature.

CO_2, CH_4, nitrous oxide (N_2O), HFC, perfluorocarbons (PFC), and sulfur hexafluoride (SF_6) are the principal GHGs. When concentrations of these gases exceed historical concentrations in the atmosphere, the greenhouse effect is intensified. CO_2, CH_4, and N_2O occur naturally and are also generated through human activity. Emissions of CO_2 are largely by-products of fossil fuel combustion, whereas CH_4 results from off-gassing, natural gas leaks from pipelines and industrial processes, and

incomplete combustion associated with agricultural practices, landfills, energy providers, and other industrial facilities. Other human-generated GHGs include fluorinated gases such as HFCs, PFCs, and SF_6, which have much higher heat-absorption potential than CO_2 and are byproducts of certain industrial processes.

CO_2 is the reference gas for climate change and is the GHG emitted in the highest volume. The effect that each GHG has on global warming is the product of the mass of their emissions and their global warming potential (GWP). GWP indicates how much a gas is predicted to contribute to global warming relative to how much warming would be predicted to be caused by the same mass of CO_2. For example, CH_4 and N_2O are substantially more potent GHGs than CO_2, with GWPs of approximately 30 and approximately 275 times that of CO_2, which has a GWP of 1.

In emissions inventories, GHG emissions are typically reported as MT of CO_2e. CO_2e is calculated as the product of the mass emitted by a given GHG and its specific GWP. While CH_4 and N_2O have much higher GWPs than CO_2, CO_2 is emitted in higher quantities and accounts for the majority of GHG emissions in CO_2e, both from commercial developments and human activity.

3.9.3 DISCUSSION OF IMPACTS

Given the global nature of climate change impacts, individual project impacts are most appropriately addressed in terms of the incremental contribution to global cumulative impacts. This approach is consistent with the view articulated by the IPCC *Change Fifth Assessment Report* (IPCC, 2014). Therefore, this analysis is of the cumulative impacts related to climate change.

The 2004 WRSP EIR did not address climate change or GHG emissions because CEQA did not require such analysis at the time the WRSP EIR was certified and the WRSP was approved. However, potential impacts to GHG emissions do not constitute "new information of substantial importance" as defined by CEQA *Guidelines* § 15162, as GHG emissions were known as potential environmental issues before 2004, when the original WRSP EIR was certified. Nonetheless, a Proposed Project-specific analysis using CalEEMod was performed, with results informing the CEQA analysis below.

Methodology

The Proposed Project's construction-related and operational GHG emissions were estimated using CalEEMod. CalEEMod is a State-wide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify GHG emissions from land use projects. The model quantifies direct GHG emissions from construction and operation (including vehicle use), as well as indirect GHG emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. The site-specific inputs and assumptions used for the purposes of GHG emissions modeling are listed in **Section 3.4.3**.

If Proposed Project-related GHG emissions exceed the thresholds listed in **Table 3-6** above, the Proposed Project is considered to have a significant impact on GHG emissions, and measures to reduce or offset the GHG emissions should be considered. Measures that reduce the amount of GHG emissions to less than the thresholds are considered to reduce the impact to less-than-significant levels.

Questions A and B

Would the project: Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment; or Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?

Construction

No New Impact. Construction of the Proposed Project would emit GHG emissions primarily from the combustion of diesel fuel in heavy equipment. As shown in **Table 3-7** below, GHG emissions associated with construction of the Proposed Project are estimated to be a maximum of 307 MT CO_2e/year. GHG emissions generated by construction of the Proposed Project would be less than the Bright-line Threshold of 10,000 MT CO_2e per year adopted by the PCAPCD (refer to **Table 3-6**). Therefore, this impact is considered less than significant, and no mitigation measures would be required. No new impact related to construction GHG emissions would occur when compared to the WRSP EIR.

TABLE 3-7. CONSTRUCTION GHG EMISSIONS

SOURCE	GHG
	MT OF CO_2E
2023 – Phase 1 Construction	307
2024 – Phase 1 Construction	187
2025 – Phase 2 Construction	284
2026 – Phase 2 Construction	100
Highest GHG Emission Year	**307**
PCAPCD Thresholds	*10,000*
Exceeds PCAPCD Threshold?	No

Note: CO_2e = carbon dioxide equivalent; GHG = greenhouse gas; MT = metric ton; PCAPCD = Placer County Air Pollution Control District

Source: Attachment E

Operation

No New Impact. Operation of the Proposed Project would result in GHG emissions from area, energy, and mobile sources. As shown in **Table 3-8**, the Proposed Project would result in approximately 2,221 MT of CO_2e per year.

TABLE 3-8. OPERATIONAL GHG EMISSIONS

SOURCE	GHG
Phase 1 Operation	1,792 MT CO_2e/year
Phase 2 Operation	429 MT CO_2e/year
Total Project-Related GHG Emissions	**2,221 MT CO_2e/year**

PCAPCD de minimis Threshold	*1,100 MT CO_2e/year*
Exceed PCAPCD De Minimis Threshold?	Yes
Total Project Area[1]	**800 ksf**
Total Project GHG Efficiency	**2.8 (MT CO_2e/ksf)**
PCAPCD GHG Efficiency Threshold	*26.5 (MT CO_2e/ksf)*
Exceed PCAPCD GHG Efficiency Threshold	No
Notes: [1]Estimated square footage of soccer fields in thousand square feet (ksf). CO_2e = carbon dioxide equivalent; GHG = greenhouse gas; MT = metric ton; PCAPCD = Placer County Air Pollution Control District Source: **Attachment E**	

GHG emissions generated by operation of the Proposed Project would be greater than the 1,100 MT CO_2e per year *de minimis* level significance threshold adopted by PCACPD. However, as described in the PCAPCD CEQA Handbook, a land use project with GHG operational emissions between 1,100 MT and 10,000 MT of CO_2e per year can still be found less than cumulatively considerable when the results of the project's related efficiency analysis meet one of conditions in the efficiency matrix for that applicable land use setting and land use type. As described above, the PCAPCD efficiency threshold for non-residential urban projects is 26.5 MT of CO_2e per 1,000 sf. As shown in **Table 3-8**, using the estimated square footage of the soccer fields, which represents a conservative analysis of the total GHG efficiency compared to the larger Project Site, the Proposed Project has a GHG efficiency of 2.8 MT of CO_2e per 1,000 sf. Therefore, the Proposed Project would not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment or conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. The Proposed Project's contribution to cumulative effects associated with climate change is considered less than significant, and no new impact would occur when compared to the WRSP EIR.

Cumulative Impacts

No New Impact. Under CEQA, GHG impacts are exclusively cumulative impacts because no single project could, by itself, result in a substantial change in climate (CEQA *Guidelines* § 15064.4(b). Therefore, the evaluation of GHG impacts presented above evaluates whether the Proposed Project would make a considerable contribution to cumulative climate change effects. No new impact would occur when compared to the WRSP EIR.

3.9.4 MITIGATION MEASURES

The Proposed Project would not result in any new potentially significant impact regarding GHG emissions not already analyzed in the WRSP EIR. Therefore, no new mitigation measures would be necessary.

3.10 HAZARDS AND HAZARDOUS MATERIALS

3.10.1 ENVIRONMENTAL CHECKLIST

HAZARDS AND HAZARDOUS MATERIALS	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☐	☒
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☐	☒
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☐	☒
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code § 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☐	☒
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	☐	☐	☐	☒

3.10.2 SETTING

Regulatory Setting

Definition of Hazardous Material

A material is considered hazardous if it appears on a list of hazardous materials prepared by a federal, State, or local agency, or if it has characteristics defined as hazardous by such an agency. A hazardous material is defined in Title 22 of the CCR as:

> *A substance or combination of substances which, because of its quantity, concentration, or physical, chemical or infectious characteristics, may either (1) cause, or significantly contribute to, an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or (2) pose a substantial present or potential hazard to human health or environment when improperly treated, stored, transported or disposed of or otherwise managed (CCR, Title 22, Section 66260.10).*

Department of Toxic Substances Control

The California Department of Toxic Substances Control (DTSC) regulates the generation, transportation, treatment, storage, and disposal of hazardous waste under the Resource Conservation and Recovery Act and the State Hazardous Waste Control Law. Both laws impose "cradle-to-grave" regulatory systems for handling hazardous waste in a manner that protects human health and the environment.

California Occupational Safety and Health Administration

California Occupational Safety and Health Administration (Cal/OSHA) assumes primary responsibility for developing and enforcing workplace safety regulations in the State. Cal/OSHA regulations concerning the use of hazardous materials in the workplace, as detailed in Title 8 of the CCR, include requirements for safety training, availability of safety equipment, accident and illness prevention programs, hazardous substance exposure warnings, and emergency action and fire prevention plan preparation.

Cal/OSHA enforces hazard communication program regulations that contain training and information requirements, including procedures for identifying and labeling hazardous substances, communicating hazard information related to hazardous substances and their handling, and preparation of health and safety plans to protect workers and employees at hazardous waste sites. The hazard communication program requires that Safety Data Sheets be available to employees and that employee information and training programs be documented.

Regional Water Quality Control Board

The SWRCB and RWQCBs also regulate hazardous substances, materials, and wastes through a variety of State statutes including, for example, the Porter Cologne Water Quality Control Act, CA Water Code § 13000 et seq., and the underground storage tank cleanup laws (CA Health and Safety Code §§ 25280-25299.8). RWQCBs regulate all pollutant or nuisance discharges that may affect either surface water or groundwater. Any person proposing to discharge waste within any region must file a report of

waste discharge with the appropriate regional board. The Proposed Project is located within the jurisdiction of the CVRWQCB.

City of Roseville General Plan

Applicable City General Plan goals, policies, and objectives include:

Safety Element

Policy SAFE5.1 Require the disclosure, use, storage, and disposal of hazardous materials to comply with local, state, and federal safety standards.

3.10.3 DISCUSSION OF IMPACTS

Question A

Would the project: Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

No New Impact. Construction of the Proposed Project would require site preparation activities, such as excavation and grading at the Project Site. During construction, oil, diesel fuel, gasoline, hydraulic fluid, and other liquid hazardous materials could be used. If spilled, these substances could pose a risk to the environment or human health. This is a potentially significant impact. However, the City would be required to obtain coverage under the current NPDES Construction General Permit for construction activities and implement the listed BMPs in a SWPPP during construction, which addresses potential leaks and spills from vehicles and construction equipment. With coverage under the NPDES Construction General Permit and adherence to a SWPPP, potential impacts associated with hazardous materials during construction activities would be less than significant.

Once operational, the Proposed Project would not utilize or store large qualities of hazardous materials. Small amounts of pesticides related to landscaping or diesel fuel to power maintenance equipment may be stored onsite. All operation activities would be required to adhere to local standards set forth by the City, as well as State and federal health and safety requirements that are intended to minimize risk to the public from hazardous materials, such as Cal/OSHA requirements and the California Health and Safety Code. Compliance with these regulations in conjunction with implementation of a SWPPP, would reduce potential exposure of people or the environment to hazardous materials associated with the Proposed Project to a less-than-significant level. No new impacts would occur when compared to the WRSP EIR.

Question B

Would the project: Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

No New Impact. As discussed above, construction of the Proposed Project could potentially create a hazard to the public or the environment in the event of an accidental release of hazardous materials into the environment. This is a potentially significant impact. However, the City would be required to obtain coverage under the current NPDES Construction General Permit for construction activities and implement the listed BMPs in a SWPPP during construction, which would mitigate potential impacts from accidental release of hazardous materials. Operation of the Proposed Project would not create a significant hazard to the public. With coverage under the NPDES Construction General Permit and adherence to a SWPPP, potential impacts associated with hazardous materials during construction activities would be less than significant. No new impacts would occur compared to the WRSP EIR.

Question C

Would the project: Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

No New Impact. Orchard Ranch Elementary School is located approximately one-quarter mile west of the Project Site. As discussed above, construction of the Proposed Project could potentially create a hazard to the public or the environment in the event of an accidental release of hazardous materials into the environment. This is a potentially significant impact. However, coverage under the NPDES Construction General Permit and adherence to a SWPPP would mitigate potential impacts from accidental release of hazardous materials. Operation of the Proposed Project would not require the use of a substantial amount of hazardous materials. No new impacts would occur when compared to the WRSP EIR.

Question D

Would the project: Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code § 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

No New Impact. The Proposed Project is not located on a site which is included on a list of hazardous materials sites (DTSC, 2022). The Hazardous Waste and Substances Sites (Cortese) List is a planning tool used by the State, local agencies, and developers to comply with CEQA requirements in providing information about the location of hazardous materials release sites. The Cortese List is prepared in accordance with California Government Code § 65962.5. The List of Hazardous Waste and Substances sites from DTSC EnviroStor and the SWRCB GeoTracker databases were reviewed to locate "Cortese List" sites (GeoTracker, 2022). These databases did not indicate any sites located on or in the vicinity of the Project Site. The Proposed Project is not located on a site included on a hazardous materials list and therefore, would not create a significant hazard to the public or the environment. No new impact would occur when compared to the WRSP EIR.

Question E

For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

No New Impact. The Project Site is not located within an airport land use compatibility zone. No public airports are located within 2 miles of the Project Site. The nearest airports are approximately 8 miles away: McClellan Airport located south of the Project Site and Lincoln Regional Airport is located to the northeast. No new impact would occur when compared to the WRSP EIR.

Question F

Would the project: Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

No New Impact. As described in **Section 3.18.3**, operation of the Proposed Project would not result in inadequate emergency access. The Project Site has been proposed for development since 2004 and has been considered in the City's emergency preparedness planning since that time. Furthermore, the City received confirmation from Mr. Robert Baquera of Roseville Police Department, confirming that the Proposed Project would not interfere with an adopted emergency response or evacuation plan (Baquera, 2022).

Construction of the Proposed Project could result in temporary lane closures. Lane closures, if not properly regulated, could potentially interfere with an adopted emergency response or evacuation plan. This would be a potentially significant impact. However, in accordance with the City's *Construction and Design Standards*, the City would require the construction contractor to implement a Traffic Management Plan prior to initiation of construction activities. The Traffic Management Plan would identify general methods by which construction activities would be managed to minimize traffic delay or impact emergency response routes. Therefore, with implementation of the City's required Traffic Management Plan, the Proposed Project would not interfere with an adopted emergency response plan or emergency evacuation plan in place through the State, County, or City. No new impact would occur when compared to the WRSP EIR.

Question G

Would the project: Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

No New Impact. The Project Site is not located within a designated fire hazard severity zone. The closest land designated as a moderate/high fire hazard severity zone is in the rural area east of Rocklin approximately 10 miles east of the Project Site (Calfire, 2022). Furthermore, the Project Site does not involve unique slopes or other factors that would exacerbate wildfire risks. The Proposed Project would not expose people or structures to a significant risk of loss, injury, or death involving wildland fires. No new impact would occur when compared to the WRSP EIR.

Cumulative Impacts

No New Impact. Hazard-related impacts are site specific (i.e., have the potential to affect only a limited area). Various existing and proposed development infrastructure, including residential, industrial, and public facilities in the vicinity of the Project Site would all involve the storage, use, disposal, and transport of hazardous materials to varying degrees during construction and operations; hazardous materials utilized during construction and operation of the Proposed Project would be minimal and limited to the existing Project Site.

Construction of the Proposed Project could potentially have adverse impacts associated with hazards and hazardous materials. However, coverage under the NPDES Construction General Permit and adherence to a SWPPP would mitigate potential impacts from accidental release of hazardous materials to a less-than-significant level. Reduction of on-site hazardous related impacts, as discussed above, would ensure that construction activities would not result in impacts that would be cumulatively considerable. Additionally, implementation of a Traffic Management Plan through the City's *Construction and Design Standards* would ensure that the Proposed Project would not interfere with an adopted emergency response plan or emergency evacuation plan. Therefore, the Proposed Project would not cumulatively contribute to the interference of such plans.

Operation of the Proposed Project and cumulative projects could result in a cumulative impact if these projects were to result in potential exposure of hazardous materials to sensitive individuals or the general public-at-large, or if additional projects in the vicinity were to include the use or storage of hazardous materials. Because substantial amounts of hazardous materials are not anticipated to be utilized or stored on the Project Site, operation of the Proposed Project would not contribute to cumulatively considerable hazardous impacts.

3.10.4 MITIGATION MEASURES

The Proposed Project would not result in any new potentially significant impact involving hazards or hazardous materials not already analyzed in the WRSP EIR. Therefore, no new mitigation measures would be necessary.

3.11 HYDROLOGY/WATER QUALITY

3.11.1 ENVIRONMENTAL CHECKLIST

HYDROLOGY/WATER QUALITY	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	☐	☐	☐	☒
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☐	☒
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: i) result in a substantial erosion or siltation on- or off-site; ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or iv) impede or redirect flood flows?	☐	☐	☐	☒
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	☒

HYDROLOGY/WATER QUALITY	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☐	☒

3.11.2 SETTING

Regulatory Context

Clean Water Act

The CWA (33 USC §§ 1251-1376), as amended by the Water Quality Act of 1987, is the major federal legislation governing water quality. The objective of the CWA is "to restore and maintain the chemical, physical, and biological integrity of the Nation's waters." Important sections of the Act are as follows:

- Sections 303 and 304 provide for water quality standards, criteria, and guidelines. Under Section 303(d) of the CWA, the USEPA publishes a list every two years of impaired bodies of water for which water quality objectives are not attained. Total Maximum Daily Loads are established for contaminants of concern in order to ensure contamination levels decrease over time.
- Section 401 (Water Quality Certification) requires an applicant for any federal permit that proposes an activity, which may result in a discharge to waters of the U.S. to obtain certification from the state that the discharge will comply with other provisions of the Act.
- Section 402 establishes the NPDES, a permitting system for the discharge of any pollutant (except for dredged or fill material) into waters of the U.S. This permit program is administered by the SWRCB and is discussed in detail below.
- Section 404 establishes a permit program for the discharge of dredged or fill material into waters of the U.S. This permit program is jointly administered by USACE and the USEPA.

Federal Anti-Degradation Policy

The federal Anti-Degradation Policy is part of the CWA (Section 303(d)) and is designed to protect water quality and water resources. The policy directs states to adopt a state-wide policy that includes the following primary provisions: 1) existing instream uses and the water quality necessary to protect those uses shall be maintained and protected; 2) where existing water quality is better than necessary to support fishing and swimming conditions, that quality shall be maintained and protected unless the state finds that allowing lower water quality is necessary for important local economic or social development; and 3) where high-quality waters constitute an outstanding national resource, such as waters of national and state parks, wildlife refuges, and waters of exceptional recreational or ecological significance, that water quality shall be maintained and protected.

Safe Drinking Water Act

Under the Safe Drinking Water Act (SDWA) (Public Law 93-523), passed in 1974, the USEPA has responsibility of monitoring contaminants of concern in domestic water supplies. Contaminants of concern relevant to domestic water supply are defined as those that pose a public health threat or that alter the aesthetic acceptability of the water. These types of contaminants are regulated by USEPA primary and secondary Maximum Contaminant Levels (MCL). MCLs and the process for setting these standards are reviewed triennially. Amendments to the SDWA enacted in 1986 established an accelerated schedule for setting drinking water MCLs.

National Pollution Discharge Elimination System

Under Section 402(p) of the CWA, the USEPA established the NPDES to enforce discharge standards from a variety of sources. Both point source and non-point-source pollution is covered under the NPDES. Dischargers in both categories can apply for individual discharge permits or apply for coverage under the General Permits that cover certain qualified dischargers. Point source discharges come from "any discernible, confined, and discrete conveyance," including municipal and industrial wastewater, stormwater runoff, combined sewer overflows, sanitary sewer overflows, and municipal separated storm sewer systems. NPDES permits impose limits on the pollutants discharged based on minimum performance standards or the quality of the receiving water, whichever type is more stringent in a given situation.

Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act (California Water Code § 13000 et seq.) provides the basis for water quality regulation within California. The Act requires a "Report of Waste Discharge" for any discharge of waste (liquid, solid, or otherwise) to land or surface waters that may impair a beneficial use of surface or groundwater of the State. The RWQCB implements WDRs identified in the Report.

State Non-Degradation Policy

In 1968, as required under the federal Anti-Degradation Policy described previously, the SWRCB adopted a Non-Degradation Policy aimed at maintaining high quality for waters in California. The Non-Degradation Policy states that the disposal of wastes into state waters shall be regulated to achieve the highest water quality consistent with maximum benefit to the people of the State and to promote the peace, health, safety, and welfare of the people of the State. The policy provides as follows:

1. Where the existing quality of water is better than required under existing water quality control plans, such quality would be maintained until it has been demonstrated that any change would be consistent with maximum benefit to the people of the State and would not unreasonably affect present and anticipated beneficial uses of such water.
2. Any activity which produces waste or increases the volume or concentration of waste and which discharges to existing high-quality waters would be required to meet WDRs that would ensure 1) pollution or nuisance would not occur and 2) the highest water quality consistent with the maximum benefit to the people of the State would be maintained.

City of Roseville General Plan

Applicable City General Plan goals, policies, and objectives include:

Open Space and Conservation Element

Policy OS3.1 Utilize cost-effective urban run-off controls, including Best Management Practices, such as low impact development and naturalized stormwater management features, to reduce the rate of stormwater runoff and limit urban pollutants from entering the watercourses.

Policy OS3.6 Where feasible, locate stormwater retention ponds in areas where subsoil is suitable for groundwater recharge.

West Roseville Specific Plan

The Resource Management section of the WRSP states that the overall goal of the WRSP mitigation program is no net loss of wetland functions, habitat, and values. To achieve this goal, the WRSP EIR implemented a no net loss mitigation program that would require projects to fully mitigate for impacts to wetlands, and to acquire the appropriate permitting prior to impacting any water of the U.S. or State.

Regional Hydrology

Watershed

The Project Site is partially within the Pleasant Grove Creek watershed and partially within the Curry Creek watershed (City, 2018). There are no surface waterbodies on the Project Site. A freshwater pond and its associated seasonal wetland and seasonal wetland swale occur north of the northern boundary of the Project Site and flow to the north when drained. These aquatic resources are intended to be avoided as part of project design. Runoff from the Project Site is collected into the City's storm drain system.

Floodplain

FEMA oversees the delineation of flood zones and the provision of federal disaster assistance. FEMA manages the National Flood Insurance Program and publishes the Flood Insurance Rate Maps, that show the expected frequency and severity of flooding by area, typically for the existing land use and type of drainage/flood control facilities present. The Project Site is not located in a FEMA designated Flood Hazard Zone (FEMA, 2021).

Groundwater

The Project Site is located in the Sacramento Valley Basin within the Sacramento Valley – North American Sub-basin (CDWR, 2019). This sub-basin drains an area of 548 square miles. A Groundwater Impact Report was drafted to support the WRSP EIR analysis (Appendix M of the WRSP EIR). As stated in Chapter 4 of the WRSP, groundwater is part of the City's water supply planning, but is only used as short-term emergency supply during dry years.

3.11.3 DISCUSSION OF IMPACTS

Question A

Would the project: Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?

No New Impact. Construction of the Proposed Project could potentially violate water quality standards or waste discharge requirements, as construction equipment and materials have the potential to result in accidental discharge of pollutants into water resources. This would be a potentially significant impact. Potential pollutants include particulate matter, sediment, oils and greases, concrete, and adhesives. However, the City would be required to obtain coverage under the NPDES Construction General Permit prior to initiation of construction activities. The SWRCB requires that construction sites have adequate control measures to reduce the discharge of sediment and other pollutants to streams to ensure compliance with Section 303 of the CWA. Furthermore, a SWPPP would be developed and approved prior to construction. The SWPPP would include a detailed, site-specific listing of the potential sources of stormwater pollution; pollution prevention measures (erosion and sediment control measures and measures to control non-stormwater discharges and hazardous spills) including a description of the type and location of erosion and sediment control BMPs to be implemented at the Project Site; and a BMP monitoring and maintenance schedule to determine the amount of pollutants leaving the Project Site. The requirement for planned development within the WRSP to obtain coverage under the NPDES Construction General Permit is detailed in Section 4.12.3 of the WRSP EIR. With coverage under the Construction General Permit and adherence to a SWPPP, no new impacts would occur.

Operation of the Proposed Project could potentially introduce contaminants into water resources from stormwater runoff, as parking lots often contain contaminants such as vehicle oil and gasoline. As identified in **Attachment F**, a seasonal wetland and wetland swale are located directly north of the northern Project Site boundary. However, the Proposed Project has been designed to avoid these aquatic features, reduce potential runoff, and includes the development of 25,926 sf of bioremediation (bioswales) planted with filtering vegetation throughout the Project Site, as seen on **Figure 2-4**. The bioremediation areas would provide preliminary filtration of contaminated stormwater runoff before stormwater reaches the water table. Additionally, the Proposed Project includes an Erosion and Sediment Control Plan, which ensures that the Proposed Project would implement and incorporate City BMPs related to erosion, particularly in the vicinity of the nearby wetland area (refer to Sheet L2.1 of **Attachment B**). With coverage under the NPDES Construction General Permit, adherence to a SWPPP, and the Proposed Project's design elements, impacts related to water quality standards would be less than significant.

Question B

Would the project: Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

No New Impact. Water supply for the Proposed Project would be supplied by the City's municipal services and required for general landscaping, restrooms, water fountains, and misting devices. Artificial

turf would be installed; therefore, watering of grass would not be required. Groundwater wells would not be utilized. The Proposed Project is expected to consume approximately 48,360,457 gallons of water per year. Water use for the Proposed Project, including potential groundwater use within the WRSP area, was planned for within the WRSP. Therefore, the Project Site is accounted for in City water planning projections and is not expected to substantially decrease groundwater supplies or use an excessive amount of groundwater over current projections in the WRSP. The City's Environmental Utilities – Engineering Department has confirmed that adequate water supplies exist to serve the demands of the Proposed Project (Hanson, 2022). Furthermore, the Proposed Project includes the development of 25,926 sf of bioremediation areas planted with filtering vegetation, as well as landscaping within the parking lots and throughout the Project Site, which would allow the recharge of groundwater supplies. Refer to Sheet L9.1 of **Attachment B** for a Planting Plan. No new impacts would occur to the groundwater supply or recharge.

Question C

Would the project: Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: i) result in a substantial erosion or siltation on- or off-site; ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or iv) impede or redirect flood flows?

No New Impact. No surface water resources occur on the Project Site; a seasonal wetland and wetland swale are located directly north of the northern Project Site boundary. Grading, cut and fill activities, impervious surfaces, and earth-moving activities associated with construction of the Proposed Project have the potential to result in erosion, siltation, temporary changes to drainage patterns, and contamination of stormwater. This would be a potentially significant impact. However, the City would be required to obtain coverage under the NPDES Construction General Permit prior to initiation of construction activities. Furthermore, a SWPPP would be developed and approved prior to construction. Coverage under the NPDES Construction General Permit and adherence to a SWPPP would include implementation of BMPs during construction to reduce the potential for impacts associated with erosion and exceeding water quality thresholds. Implementation of BMPs such as fiber rolls, hay bales, and silt fencing, would reduce the potential for sediment and stormwater runoff containing pollutants from entering receiving waters. The Construction General Permit also includes post-construction performance standards to protect the physical and biological integrity of aquatic ecosystems. With coverage under the Construction General Permit and adherence to a SWPPP, no new impacts would occur.

Additionally, a Drainage Plan has been prepared for the Proposed Project and includes stormwater retention bioremediation areas and connections to the City's storm drain system, which would filter potentially polluted runoff and control stormwater so as to not result in flooding on- or offsite (refer to Sheet L5.1 of **Attachment B**). The Proposed Project also includes an Erosion and Sediment Control Plan,

which ensures that the Proposed Project would implement and incorporate the City's BMPs related to erosion (refer to Sheet L2.1 of **Attachment B**).

Question D

Would the project: In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

No New Impact. As described above, the Project Site is not located in a FEMA designated Flood Hazard Zone (FEMA, 2021). The Project Site is relatively flat and is not within a tsunami or seiche zone (DOC, 2021b). No new impact would occur.

Question E

Would the project: Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

No New Impact. Section 4.12 of the WRSP EIR details relevant water quality and groundwater policies and regulations, such as the City of Roseville Stormwater Management Program (2004). The Proposed Project, as part of the WRSP, was designed to adhere to relevant policies and plans. The Placer County Water Agency is the lead agency for the West Placer Groundwater Sustainability Plan (GSP), which includes the City of Roseville. The Placer County Board of Supervisors approved the GSP in January 2022. The Proposed Project was included in City's groundwater use projections within the WRSP and would not conflict with the GSP. No new impacts would occur.

Cumulative Impacts

No New Impact. The Proposed Project and potential cumulative projects in the vicinity of the Project Site would be required to comply with the NPDES Construction General Permit and prepare SWPPPs, which are intended to reduce the potential for cumulative impacts to water quality during construction. Therefore, impacts on cumulative construction-related water quality effects would be less than significant after compliance with the NPDES Construction General Permit.

Additionally, the Proposed Project would result in minimal new hardscape that would not be cumulatively considerable. The Proposed Project has been designed to control stormwater through stormwater detention and connection to the City's stormwater infrastructure. Because the Proposed Project would not increase flood risks, would not deplete a groundwater basin, and would not place people or structures within an area prone to tsunami or seiche, the Proposed Project would not contribute to these cumulatively considered impacts.

3.11.4 MITIGATION MEASURES

The Proposed Project would not result in any new potentially significant impact to hydrology or water resources not already analyzed in the WRSP EIR. Therefore, no new mitigation measures would be necessary.

3.12 LAND USE/PLANNING

3.12.1 ENVIRONMENTAL CHECKLIST

LAND USE/PLANNING	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
Would the project:				
a) Physically divide an established community?	☐	☐	☐	☒
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☐	☒

3.12.2 SETTING

Regulatory Context

City of Roseville General Plan

Applicable City General Plan goals, policies, and objectives include:

Parks and Recreation Element

Goal PR1.1 Provide adequate parkland, recreational facilities, and a wide variety of programs, activities, and educational opportunities using public and private resources.

Goal PR1.2 Maximize the use of dedicated parklands and open space areas to provide residents with both active/formal/programmable and passive/informal/nonprogrammed recreation opportunities.

Land Use Element

Policy LU1.3 Continue to provide a full range of public services and maintain high levels of service for public facilities, services, transportation, open space, and parks and recreation.

Environmental Setting

Project Site Land Uses

The 51-acre Project Site partially spans across four parcels: City APNs 496-020-034-000 (WRSP Parcel W-60B), 496-020-033-000 (WRSP Parcel W-60A), 496-020-032-000 (WRSP Parcel W-50E), 017-101-017-000. Three of the four parcels are located within the WRSP land use plan. The Project Site includes all of APN 496-020-033-000 (25.20 acres – zoned Park and Recreation), all of APN 496-020-032-000 (3.10 acres – zoned Park and Recreation), the southern portion of APN 017-101-017-000 (3.0 acres – zoned Park and Recreation), and the northern portion of

APN 496-020-034-000 (20.2 acres – zoned Light Industrial/Special Area) (**Figure 2-2**). All parcels are currently undeveloped and located within City limits.

Surrounding Land Uses

Surrounding land uses are comprised of residential, industrial, commercial, and public uses. Lands to the north of the Project Site are zoned Community Commercial (CC). Lands to the west of the Project Site are zoned Low and High Density Residential. Lands to the south of the Project Site are zoned Light Industrial (M1). Lands to the east are zoned Public/Quasi-Public (P/QP) and contain the Pleasant Grove WWTP and REP.

3.12.3 DISCUSSION OF IMPACTS

Question A

Would the project: Physically divide an established community?

No New Impact. Projects that have the potential to physically divide an established community typically include new freeways and highways, major arterials streets, and railroad lines. The Proposed Project would not physically divide an established community. No impact would occur, and no new impact would occur compared to the WRSP EIR.

Question B

Would the project: Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

No New Impact. As described above, the Project Site is currently zoned Park and Recreation and Light Industrial/Special Area. The City Zoning Code permits the development of a sports complex within this zoning designation. The Proposed Project would not require a Zoning or General Plan amendment. The Proposed Project was planned and anticipated for within the WRSP. The Proposed Project would not conflict with any land use plan, policy, or regulation. The Proposed Project is consistent with applicable goals and policies in the City's General Plan; specifically, Goals PR1.1 and PR1.2 listed earlier in this IS, to provide adequate parkland and recreational facilities, and to provide the public with recreation opportunities. The Proposed Project would be consistent with all applicable land use plans, policies, and regulations, as discussed in each individual environmental impact area analyzed within this Subsequent IS. Therefore, implementation of the Proposed Project would not conflict with any plans, policies, or regulations adopted for the purpose of avoiding or mitigating an environmental effect. No impact would occur, and no new impact would occur when compared to the WRSP EIR.

Cumulative Impacts

No New Impact*.* Potential cumulative projects in the vicinity of the Project Site would be developed in accordance with local and regional planning documents. As described above, the Proposed Project would comply with all zoning requirements and would reflect current land uses in the vicinity of the Project Site. Thus, cumulative impacts associated with land use compatibility are expected to be less

than significant. Additionally, as discussed above, the Proposed Project is consistent with the General Plan land use designations, goals, and policies, and thus would not contribute to the potential for adverse cumulative land use effects.

3.12.4 MITIGATION MEASURES

The Proposed Project would not result in any new potentially significant impact to land use/planning issues not already analyzed in the WRSP EIR. Therefore, no new mitigation measures would be necessary.

3.13 MINERAL RESOURCES

3.13.1 ENVIRONMENTAL CHECKLIST

Mineral Resources	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
Would the project:				
a) Result in the loss of availability of a known mineral resource that would be a value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	☐	☐	☐	☒

3.13.2 SETTING

Regulatory Setting

Pursuant to the mandate of the Surface Mining and Reclamation Act of 1975 (SMARA), the State Mining and Geology Board designates mineral deposits that have regional, multi-community, or State-wide economic significance. SMARA allows the State Mining and Geology Board (SMGB) to designate and classify lands containing mineral deposits of regional or State-wide significance. Classification of minerals is completed by the State Geologist in accordance with the SMGB's priority list, into four Mineral Resource Zones (MRZ). Lands classified as MRZ-1 are areas where geologic information indicates no signification mineral deposits are present; MRZ-2 indicates areas that contain identified mineral resources; MRZ-3 indicates areas of undetermined mineral resources significance; MRZ-4 indicates areas of unknown mineral resource potential (DOC, 2019).

Environmental Setting

As described in the County's General Plan, Open Space and Conservation element, mineral resources, consisting of sand and gravel, are limited and no mineral extraction operations exist or are anticipated in the future. The WRSP EIR states that there are no known mineral resources within the WRSP area (refer to Section 4.7 of the WRSP EIR).

3.13.3 DISCUSSION OF IMPACTS

Question A

Would the project: Result in the loss of availability of a known mineral resource that would be a value to the region and the residents of the state?

No New Impact. According to the USGS Mineral Resources Data System, there are no known mineral resources located on the Project Site (USGS, 2020). Additionally, the WRSP EIR states that there are no known mineral resources within the WRSP area. Therefore, the Proposed Project would not result in the loss of availability of any mineral resources that could be of value to the region. No new impact would occur compared to the WRSP EIR.

Question B

Would the project: Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?

No New Impact. There are no locally important mineral resource recovery sites in the area (USGS, 2020). No new impact would occur when compared to the WRSP EIR.

3.13.4 MITIGATION MEASURES

The Proposed Project would not result in any new potentially significant impact to mineral resources not already analyzed in the WRSP EIR. Therefore, no new mitigation measures would be necessary.

3.14 NOISE

Information in this section is summarized from an Environmental Noise Assessment prepared by Saxelby Acoustics for the Proposed Project (**Attachment I**).

3.14.1 ENVIRONMENTAL CHECKLIST

NOISE	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☐	☐	☒
b) Generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☐	☒
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

3.14.2 SETTING

Background Information on Noise

Fundamentals of Acoustics

Acoustics is the science of sound. Sound may be thought of as mechanical energy of a vibrating object transmitted by pressure waves through a medium to human (or animal) ears. If the pressure variations occur frequently enough (at least 20 times per second), then they can be heard and are called sound. The number of pressure variations per second is called the frequency of sound and is expressed as cycles per second or Hertz.

Noise is a subjective reaction to different types of sounds. Noise is typically defined as (airborne) sound that is loud, unpleasant, unexpected, or undesired, and may therefore be classified as a more specific group of sounds. Perceptions of sound and noise are highly subjective from person to person.

Measuring sound directly in terms of pressure would require a very large and awkward range of numbers. To avoid this, the decibel (dB) scale was devised. The decibel scale uses the hearing threshold (20 micropascals), as a point of reference, defined as 0 dB. Other sound pressures are then compared to this reference pressure, and the logarithm is taken to keep the numbers in a practical range. The decibel scale allows a million-fold increase in pressure to be expressed as 120 dB, and changes in levels (dB) correspond closely to human perception of relative loudness.

The perceived loudness of sounds is dependent upon many factors, including sound pressure level and frequency content. However, within the usual range of environmental noise levels, perception of loudness is relatively predictable, and can be approximated by A-weighted sound levels. There is a strong correlation between A-weighted sound levels (expressed as dBA) and the way the human ear perceives sound. For this reason, the A-weighted sound level has become the standard tool of environmental noise assessment.

The decibel scale is logarithmic, not linear. In other words, two sound levels 10-dB apart differ in acoustic energy by a factor of 10. When the standard logarithmic decibel is A-weighted, an increase of 10-dBA is generally perceived as a doubling in loudness. For example, a 70-dBA sound is half as loud as an 80-dBA sound, and twice as loud as a 60 dBA sound.

Community noise is commonly described in terms of the ambient noise level, which is defined as the all-encompassing noise level associated with a given environment. A common statistical tool is the average, or equivalent, sound level (L_{eq}), which corresponds to a steady-state A-weighted sound level containing the same total energy as a time varying signal over a given time period (usually one hour). The L_{eq} is the foundation of the composite noise descriptor, L_{dn}, and shows very good correlation with community response to noise.

The day/night average level (also referred to as L_{dn}) is based upon the average noise level over a 24-hour day, with a +10-dB weighing applied to noise occurring during nighttime (10:00 p.m. to 7:00 a.m.) hours. The nighttime penalty is based upon the assumption that people react to nighttime noise exposures as though they were twice as loud as daytime exposures. Because L_{dn} represents a 24-hour average, it tends to disguise short-term variations in the noise environment.

Table 3-9 lists several examples of the noise levels associated with common situations.

TABLE 3-9. TYPICAL NOISE LEVELS

COMMON OUTDOOR ACTIVITIES	NOISE LEVEL (DBA)	COMMON INDOOR ACTIVITIES
	110	Rock Band
Jet Fly-Over at 300 meters (1,000 ft.)	100	
Gas Lawn Mower at 1 meter (3 ft.)	90	
Diesel Truck at 15 meters (50 ft.), at 80 km/hour (50 mph)	80	Food Blender at 1 meter (3 ft.) Garbage Disposal at 1 meter (3 ft.)
Noisy Urban Area, Daytime Gas Lawn Mower, 30 m (100 ft.)	70	Vacuum Cleaner at 3 meters (10 ft.)
Commercial Area Heavy Traffic at 90 meters (300 ft.)	60	Normal Speech at 1 meter (3 ft.)
Quiet Urban Daytime	50	Large Business Office Dishwasher in Next Room
Quiet Urban Nighttime	40	Theater, Large Conference Room (Background)
Quiet Suburban Nighttime	30	Library
Quiet Rural Nighttime	20	Bedroom at Night, Concert Hall (Background)
	10	Broadcast/Recording Studio
Lowest Threshold of Human Hearing	0	Lowest Threshold of Human Hearing
Source: **Attachment I**; (Caltrans, 2013a)		

Effects of Noise on People

The effects of noise on people can be placed in three categories:

- subjective effects of annoyance, nuisance, and dissatisfaction,
- interference with activities such as speech, sleep, and learning, and
- physiological effects such as hearing loss or sudden startling.

Environmental noise typically produces effects in the first two categories. Workers in industrial plants can experience noise in the last category. There is no completely satisfactory way to measure the subjective effects of noise or the corresponding reactions of annoyance and dissatisfaction. A wide variation in individual thresholds of annoyance exists and different tolerances to noise tend to develop based on an individual's past experiences with noise.

Thus, an important way of predicting a human reaction to a new noise environment is the way it compares to the existing environment to which one has adapted: the so-called ambient noise level. In general, the more a new noise exceeds the previously existing ambient noise level, the less acceptable the new noise will be judged by those hearing it.

With regard to increases in A-weighted noise level, the following relationships occur:

- Except in carefully controlled laboratory experiments, a change of 1 dBA cannot be perceived.
- Outside of the laboratory, a 3-dBA change is considered a just-perceivable difference.
- A change in level of at least 5 dBA is required before any noticeable change in human response would be expected.
- A 10-dBA change is subjectively heard as approximately a doubling in loudness, and can cause an adverse response.

Stationary point sources of noise—including stationary mobile sources such as idling vehicles—attenuate (lessen) at a rate of approximately 6 dB per doubling of distance from the source, depending on environmental conditions (e.g., atmospheric conditions and either vegetative or manufactured noise barriers, etc.). Widely distributed noises, such as a large industrial facility spread over many acres, or a street with moving vehicles, would typically attenuate at a lower rate.

Existing Noise and Vibration Environments – Analysis Methods

Existing Ambient Noise Levels

To quantify the existing ambient noise environment in the vicinity of the Project Site, Saxelby Acoustics conducted a continuous (24-hr.) noise level measurement at two locations near sensitive receptors adjacent to the Project Site over four days. Noise measurement locations are shown on Figure 2 of **Attachment I**. A summary of the noise level measurement survey results is provided in **Table 3-10** below. Appendix B of **Attachment I** contains the complete results of the noise monitoring.

TABLE 3-10. SUMMARY OF EXISTING BACKGROUND NOISE MEASUREMENT DATA

LOCATION	DATE	L_{DN}	DAYTIME L_{EQ}	DAYTIME L_{50}	DAYTIME L_{MAX}	NIGHTTIME L_{EQ}	NIGHTTIME L_{50}	NIGHTTIME L_{MAX}
LT-1: 75 ft. to CL of Westbrook Blvd.	04/23/2022	62	62	53	83	52	46	68
LT-1: 75 ft. to CL of Westbrook Blvd.	04/24/2022	61	62	51	84	51	43	69
LT-1: 75 ft. to CL of	04/25/2022	62	61	53	83	53	46	72

Westbrook Blvd.								
LT-1: 75 ft. to CL of Westbrook Blvd.	04/26/2022	62	62	53	85	53	45	72
LT-2: 115 ft. to CL of Westbrook Blvd.	04/23/2022	57	57	50	80	48	44	69
LT-2: 115 ft. to CL of Westbrook Blvd.	04/24/2022	60	61	50	82	48	44	65
LT-2: 115 ft. to CL of Westbrook Blvd.	04/25/2022	60	58	53	78	52	44	71
LT-2: 115 ft. to CL of Westbrook Blvd.	04/26/2022	60	58	53	78	52	44	71

The sound level meters were programmed to record the maximum, median, and average noise levels at each site during the survey. The maximum value, denoted Lmax, represents the highest noise level measured. The average value, denoted Leq, represents the energy average of all of the noise received by the sound level meter microphone during the monitoring period. The median value, denoted L50, represents the sound level exceeded 50% of the time during the monitoring period.

Larson Davis Laboratories model 820 precision integrating sound level meters were used for the ambient noise level measurement survey. The meters were calibrated before and after use with a CAL 200 acoustical calibrator to ensure the accuracy of the measurements. The equipment used meets all pertinent specifications of the American National Standards Institute for Type 1 sound level meters (ANSI S1.4).

Ambient Noise Levels at Sensitive Receptors

To accurately assess the effect of the Proposed Project on surrounding sensitive uses, Saxelby Acoustics determined the existing ambient noise levels in the backyard areas of the nearby residences directly west of the Project Site which are shielded by existing concrete masonry sound walls located along Westbrook Blvd. Using the data collected during the long-term noise level survey, Saxelby Acoustics modeled noise levels emanating from Westbrook Blvd. at the existing noise-sensitive receptor backyards. Westbrook Blvd. was noted as the primary daytime noise source. However, contributions to

ambient noise from the REP or the Pleasant Grove WWTP are also included in the collected ambient noise readings.

Inputs to the model included sound power levels for Westbrook Blvd., existing sound walls, buildings, terrain type, and locations of sensitive receptors. These predictions are made in accordance with International Organization for Standardization (ISO) standard 9613-2:1996 (Acoustics – Attenuation of sound during propagation outdoors). ISO 9613 is the most commonly used method for calculating exterior noise propagation. The results of this analysis are shown graphically on Figure 3 of **Attachment I**, in terms of the average (Leq) daytime (7:00 a.m. to 10:00 p.m.) noise levels.

Evaluation of Operational Noise at Residential Receptors

The primary noise sources associated with a sports field are loud conversation amongst players and coaches on the field, referee whistles, and crowd noise. Secondary noise sources associated with the Proposed Project include a playground on the northern portion of the Project Site. This Noise Assessment considered each of these noise sources along with vehicle circulation on the Project Site. The following is a list of assumptions used for the noise modeling. The data used is based upon Saxelby Acoustics data from similar facilities and predicted project trip generation volumes from the Transportation Impact Study (**Attachment H**).

- **On-Site Circulation**: The proposed soccer complex is predicted to generate up to 480 peak hour trips during a typical weekday and up to 1,074 peak hour trips during tournaments (**Attachment H**). Parking lot movements are predicted to generate a sound exposure level (SEL) of 71 dBA SEL at 50 feet for cars. Nighttime traffic outside of the AM or PM peak hour is not expected to occur.
- **Soccer Field**: Based upon measurements taken at various facilities, soccer games varied in noise level from 52 to 55 dBA Leq at 200 feet as measured from the center of the field to sidelines opposite of spectators. It was assumed that half of the fields would operate at 52 dBA Leq at 200 feet and half would operate at 55 dBA Leq at 200 feet. Maximum (Lmax) noise levels for a typical soccer game were found to be 73 dBA at 200 feet.
- **Playground Area**: Recreational activity in center of playground area at 55 dBA Leq and 75 dBA Lmax at 100 feet. Daytime use only.

Saxelby Acoustics used the SoundPLAN noise prediction model. Inputs to the model included sound power levels for the proposed soccer fields, parking lots, and playground, existing and proposed buildings, existing sound walls, terrain type, and locations of sensitive receptors. These predictions are made in accordance with the ISO 9613 method. The results of this analysis are shown graphically on Figure 4 of **Attachment I**.

Regulatory Setting

City of Roseville General Plan

The City's General Plan Noise Element (Table 1X-3) establishes an acceptable exterior noise level of 50 dBA Leq for daytime (7:00 a.m. to 10:00 p.m.) for stationary noise sources.

City of Roseville Municipal Code

Per the City's Municipal Code, construction activities are exempt assuming that they occur between the hours of 7:00 a.m. and 7:00 p.m. Monday through Friday, and between the hours of 8:00 a.m. and 8:00 p.m. Saturday and Sunday; provided, however, that all construction equipment shall be fitted with factory installed muffling devices and that all construction equipment shall be maintained in good working order.

Per the City's Municipal Code noise ordinance, an increase in ambient noise levels exceeding 3 dBA would be considered significant.

City of Roseville Noise Ordinance

The City's Municipal Code outlines the following sound limits for sensitive receptors:

1. 9.24.100 SOUND LIMITS FOR SENSITIVE RECEPTORS: It is unlawful for any person at any location to create any sound, or to allow the creation of any sound, on property owned, leased, occupied or otherwise controlled by such person, which causes the exterior sound level when measured at the property line of any affected sensitive receptor to exceed the ambient sound level by three dBA or exceed the sound level standards as set forth in **Table 3-11**, by three dBA, whichever is greater.

TABLE 3-11. SOUND LEVEL STANDARDS (FOR NON-TRANPSORTATION OR FIXED SOUND SOURCES)

SOUND LEVEL DESCRIPTOR	DAYTIME (7:00 A.M. TO 10:00 P.M.)	NIGHTTIME (10:00 P.M. TO 7:00 A.M.)
Hourly leq, dB	50	45
Maximum level, dB	70	65
Note: dB = decibel; leq = average or equivalent sound level		

a. Each of the sound level standards specified in **Table 3-11** shall be reduced by 5 dB for simple tone noises, consisting of speech and music. However, in no case shall the sound level standard be lower than the ambient sound level plus 3 dB.

b. If the intruding sound source is continuous and cannot reasonably be discontinued or stopped for a time period whereby the ambient sound level can be measured, the sound level measured while the source is in operation shall be compared directly to the sound level standards of **Table 3-11**. (Ord. 3638 § 1, 2001.)

2. 9.24.130 SOUND LIMITS FOR EVENTS ON PUBLIC PROPERTY: Notwithstanding the provisions of Section 9.24.100, sound sources associated with outside activities on public property (e.g., athletic events, sporting events, fairs, and entertainment events) between the hours of 8:00 a.m. and 10:30 p.m., Sunday through Thursday, and between the hours of 8:00 a.m. and

11:00 p.m. on Fridays, Saturdays, and city-recognized holidays, shall not exceed 80 dBA, Lmax at the property line of the property on which the event is being held. (Ord. 3638 § 1, 2001.)

3. 9.24.030 EXEMPTIONS: Sound or noise emanating from the following sources and activities are exempt from the provisions of this title:
4. Sound sources typically associated with residential uses (e.g., children at play, air conditioning and similar equipment, but not including barking dogs);
5. Sound sources associated with property maintenance (e.g., lawn mowers, edgers, blowers, pool pumps, power tools, etc.) provided such activities take place between the hours of 8:00 a.m. and 9:00 p.m.;
6. Safety, warning and alarm devices, including house and car alarms, and other warning devices that are designed to protect the health, safety and welfare, provided such devices are not negligently maintained or operated;
7. The normal operation of public and private schools typically consisting of classes and other school-sponsored activities;
8. Maintenance (e.g., lawn mowers, edgers, aerators, blowers, etc.) of golf courses, provided such activities take place between the hours of 5:00 a.m. and 9:00 p.m. May through September, and 6:00 a.m. and 9:00 p.m. October through April;
9. Emergencies involving the execution of the duties of duly authorized governmental personnel and others providing emergency response to the general public, including, but not limited to, sworn peace officers, emergency personnel, utility personnel, and the operation of emergency response vehicles and equipment;
10. Private construction (e.g., construction, alteration, or repair activities) between the hours of 7:00 a.m. and 7:00 p.m. Monday through Friday, and between the hours of 8:00 a.m. and 8:00 p.m. Saturday and Sunday; provided, however, that all construction equipment shall be fitted with factory installed muffling devices and that all construction equipment shall be maintained in good working order. (Ord. 3638 § 1, 2001.)

Criteria for Acceptable Vibration

Vibration is like noise in that it involves a source, a transmission path, and a receiver. While vibration is related to noise, it differs in that in that noise is generally considered to be pressure waves transmitted through air, whereas vibration usually consists of the excitation of a structure or surface. As with noise, vibration consists of an amplitude and frequency. A person's perception to the vibration will depend on their individual sensitivity to vibration, as well as the amplitude and frequency of the source and the response of the system which is vibrating.

Vibration can be measured in terms of acceleration, velocity, or displacement. A common practice is to monitor vibration measures in terms of peak particle velocities in inches per second. Standards pertaining to perception as well as damage to structures have been developed for vibration levels defined in terms of peak particle velocities.

Human and structural response to different vibration levels is influenced by a number of factors, including ground type, distance between source and receptor, duration, and the number of perceived vibration events. **Table 3-12**, which was developed by Caltrans, shows the vibration levels which would normally

be required to result in damage to structures. The vibration levels are presented in terms of peak particle velocity in inches per second.

Table 3-12 indicates that the threshold for architectural damage to structures is 0.20 in/sec peak particle velocity (ppv). A threshold of 0.2 in/sec ppv is considered to be a reasonable threshold for short-term construction projects.

TABLE 3-12. EFFECTS OF VIBRATION ON PEOPLE AND BUILDINGS

PEAK PARTICLE VELOCITY		HUMAN REACTION	EFFECT ON BUILDINGS
MM/SECOND	IN/SECOND		
0.15-0.30	0.006-0.019	Threshold of perception; possibility of intrusion	Vibrations unlikely to cause damage of any type
2.0	0.08	Vibrations readily perceptible	Recommended upper level of the vibration to which ruins and ancient monuments should be subjected
2.5	0.10	Level at which continuous vibrations begin to annoy people	Virtually no risk of "architectural" damage to normal buildings
5.0	0.20	Vibrations annoying to people in buildings (this agrees with the levels established for people standing on bridges and subjected to relative short periods of vibrations)	Threshold at which there is a risk of "architectural" damage to normal dwelling - houses with plastered walls and ceilings. Special types of finish such as lining of walls, flexible ceiling treatment, etc., would minimize "architectural" damage
10-15	0.4-0.6	Vibrations considered unpleasant by people subjected to continuous vibrations and unacceptable to some people walking on bridges	Vibrations at a greater level than normally expected from traffic, but would cause "architectural" dam age and possibly minor structural damage

Source: Attachment I: (Caltrans, 2013b)

3.14.3 DISCUSSION OF IMPACTS

Question A

Would the project result in: Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Traffic Noise Increases at Off-Site Receptors

No New Impact. Based upon the Transportation Impact Study prepared for the Proposed Project (**Attachment H**), the Proposed Project is predicted to result in a reduction of 382 daily vehicle trips as

compared to the planned vehicle trips assumed for the underlying land use assumed in the WRSP. Therefore, there would be no new impacts when compared to the WRSP EIR.

Operational Noise at Sensitive Receptors

Project Noise Exposure

No New Impact. As shown in Figure 3 of the Environmental Noise Assessment (**Attachment I**), the ambient noise levels at sensitive receptors adjacent to the Project Site were found to range from 56 to 58 dBA Leq during daytime hours due primarily to existing traffic noise, the REP, and the Pleasant Grove WWTP. This level of noise already exceeds the City's 50 dBA Leq daytime noise standard, established in Table IX-3 of the City's 2035 General Plan Noise Element. Therefore, the Noise Assessment examined whether the Proposed Project would cause a significant increase in ambient noise levels. Figure 4 of **Attachment I** shows that Project noise levels at the nearest backyards along Westbrook Blvd. range from 47 to 55 dBA Leq, causing ambient noise increases ranging from 0 to 2 dBA Leq. This is less than the 3 dBA standard established in the City Municipal Code Moise Ordinance Section 9.24.100.

It should also be noted that the maximum property line noise level at the Project Site is predicted to be 62 dBA Leq. Maximum (Lmax) noise levels from typical soccer activity was measured to be 18 dBA higher than average (Leq) values. Therefore, the property line maximum noise level is predicted to be 80 dBA Lmax. This complies with the City Municipal Code noise ordinance requirement that sound sources associated with outside activities on public property not exceed 80 dBA Lmax at the property line on which the event is being held. Therefore, operational noise from the Proposed Project would be considered less than significant and no new impact would occur when compared to the WRSP EIR.

Construction Noise

No New Impact. During the construction phases of the Proposed Project, noise from construction activities would add to the noise environment in the immediate vicinity of the Project Site. As indicated in **Table 3-13** below, activities involved in construction would generate maximum noise levels ranging from 76 to 90 dBA Lmax at a distance of 50 feet. Most of the construction would occur at distances of 200 feet or greater from the nearest residences. Additionally, construction noise would be shielded by existing masonry sound walls located along Westbrook Blvd. At 200 feet, maximum noise levels from the loudest pieces of equipment would be approximately 73 dBA Lmax in the nearest residential backyards. Existing maximum noise levels are estimated to be approximately 76 to 78 dBA Lmax in the nearest residential backyards. Therefore, t construction of the Proposed Project is not predicted to increase existing noise levels at the nearest noise sensitive receptors.

TABLE 3-13. CONSTRUCTION EQUIPMENT NOISE

TYPE OF EQUIPMENT	MAXIMUM LEVEL, DBA AT 50 FEET
Auger Drill Rig	84
Backhoe	78
Compactor	83

Compressor (air)	78
Concrete Saw	90
Dozer	82
Dump Truck	76
Excavator	81
Generator	81
Jackhammer	89
Pneumatic Tools	85
Source: **Attachment I**; Roadway Construction Noise Model User's Guide. Federal Highway Administration. FHWA-HEP-05-054. January 2006.	

Construction noise associated with parking lot paving would be similar to noise that would be associated with public works projects, such as a roadway widening or street paving projects. Construction activities would be temporary in nature and occur during normal daytime working hours. Noise would also be generated during the construction phase by increased truck traffic on area roadways. A Proposed Project-generated noise source would be truck traffic associated with transport of heavy materials and equipment to and from the construction site. This noise increase would be of short duration and would occur primarily during daytime hours.

The City exempts construction noise from the Noise Ordinance provisions if construction activity is limited to daytime hours. These exemptions are typical of City and County noise ordinances and reflect the recognition that construction-related noise is temporary in character, is generally acceptable when limited to daylight hours, and is part of what residents of urban areas expect as part of a typical urban noise environment (along with sirens, etc.). Impacts related to construction would be less than significant and no new impact would occur when compared to the WRSP EIR.

Question B

Would the project result in: Generation of excessive groundborne vibration or groundborne noise levels?

No New Impact. Construction vibration impacts include human annoyance and building structural damage. Human annoyance occurs when construction vibration rises significantly above the threshold of perception. Building damage can take the form of cosmetic or structural. Data in **Table 3-14** below indicate that construction vibration levels anticipated for the Proposed Project are less than the 0.2 in/sec threshold at distances of 26 feet. Sensitive receptors which could be impacted by construction related vibrations, especially vibratory compactors/rollers, are located approximately 26 feet, or further, from typical construction activities. At these distances, construction vibrations are not predicted to exceed acceptable levels. Additionally, construction activities would be temporary in nature and would likely occur during normal daytime working hours. No new impact would occur compared to the WRSP EIR.

TABLE 3-14. VIBRATION LEVELS FOR VARIOUS CONSTRUCTION EQUIPMENT

TYPE OF EQUIPMENT	PEAK PARTICLE VELOCITY AT 25 FEET (INCHES/SECOND)	PEAK PARTICLE VELOCITY AT 50 FEET (INCHES/SECOND)	PEAK PARTICLE VELOCITY AT 100 FEET (INCHES/SECOND)
Large Bulldozer	0.089	0.031	0.011
Loaded Trucks	0.076	0.027	0.010
Small Bulldozer	0.003	0.001	0.000
Auger/drill Rigs	0.089	0.031	0.011
Jackhammer	0.035	0.012	0.004
Vibratory Hammer	0.070	0.025	0.009
Vibratory Compactor/roller	0.210 (Less than 0.20 at 26 feet)	0.074	0.026
Source: Attachment I; Transit Noise and Vibration Impact Assessment Guidelines. Federal Transit Administration. May 2006.			

Question C

For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

No New Impact. The Project Site is not located near an existing airport or private airstrip and is not within an area covered by an existing airport land use plan. No new impact would occur.

Cumulative Impacts

No New Impact. As stated above, operation of the Proposed Project would not cause a significant increase in ambient noise levels. Additionally, the exposure of sensitive receptors to excessive noise levels from traffic noise sources associated with buildout of the WRSP was accessed in the WRSP EIR and mitigation was incorporated where necessary. Therefore, the Proposed Project would not result in cumulatively considerable impacts. This impact is considered less than significant.

3.14.4 MITIGATION MEASURES

The Proposed Project would not result in any new potentially significant impact resulting from noise not already analyzed in the WRSP EIR. Therefore, no new mitigation measures would be necessary.

3.15 POPULATION AND HOUSING

3.15.1 ENVIRONMENTAL CHECKLIST

POPULATION AND HOUSING	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
Would the project:				
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☐	☒
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

3.15.2 SETTING

Regulatory Setting

City of Roseville General Plan

The Land Use and Housing Elements of the City's General Plan provides detailed information related to the City's housing needs and standards, as well as population growth management. Applicable goals and policies include, but are not limited to:

Goal LU-8.1 Proactively manage and plan for growth.

Goal LU-8.3 Growth shall mitigate its impacts through consistency with the General Plan goals and policies and shall provide a positive benefit to the community.

Policy LU-8.5 The City shall use the specific plan process to ensure a comprehensive, logical growth process for new development areas (e.g., annexations) or any areas where significant land use changes are considered.

Environmental Setting

Population

As of July 1, 2021, the population of the City was estimated at 151,901 people (US Census, 2021). The Public Services element of the WRSP (2004) estimated that the WRSP would generate an estimated population of 25,964 persons.

3.15.3 DISCUSSION OF IMPACTS

Question A

Would the project: Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

No New Impact. The Proposed Project does not involve the development of any homes or businesses that could lead to population growth. Additionally, the development of the Proposed Project is anticipated and planned for within the WRSP. The Proposed Project would not directly induce population growth and would have a less-than-significant impact on population growth. There would be no new impacts compared to the WRSP EIR.

Question B

Would the Project: Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No New Impact. The Proposed Project would not displace existing housing or people that would necessitate the construction of replacement housing. There would be no new impacts when compared to the WRSP EIR.

Cumulative Impacts

No New Impact. The Proposed Project is planned for within the WRSP and is not expected to significantly increase unplanned growth; therefore, the Proposed Project would not contribute to cumulative impacts associated with growth. No new impact would occur.

3.15.4 MITIGATION MEASURES

The Proposed Project would not result in any new potentially significant impact related to population and housing not already analyzed in the WRSP EIR. Therefore, no new mitigation measures would be necessary.

3.16 PUBLIC SERVICES

3.16.1 ENVIRONMENTAL CHECKLIST

PUBLIC SERVICES	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
Would the project:				
Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:				
a) Fire Protection?	☐	☐	☐	☒
b) Police Protection?	☐	☐	☐	☒
c) Schools?	☐	☐	☐	☒
d) Parks?	☐	☐	☐	☒
e) Other public facilities?	☐	☐	☐	☒

3.16.2 SETTING

Fire Protection/Emergency Medical Service

Fire protection and emergency medical services within the City are provided by the Roseville Fire Department (RFD). The RFD serves the WRSP area. The City operates eight fire stations and one training facility (City, 2022b). The Project Site is located in District 9, with the closest Fire Station being Station 9, located approximately 0.7 miles east of the Project Site at 2451 Hayden Parkway in Roseville. At the time the WRSP EIR was prepared, Station 9 was proposed to accommodate growth associated with the WRSP; Station 9 has since been built and is operational. The WRSP EIR included mitigation measures to maintain the City's response time standard for emergencies (refer to Section 4.10 Public Services of the WRSP EIR, MM 4.10-4 and MM 4.10-5).

Law Enforcement

The Roseville Police Department (RPD) serves the WRSP area. The RPD provides all operations and patrols out of its central station located at 1051 Junction Blvd. in Roseville, located approximately

5 miles southeast of the Project Site. The WRSP EIR included mitigation measures to maintain adequate police staffing in response to buildout of the WRSP (refer to Section 4.10 Public Services of the WRSP EIR, MM 4.10-1 and MM 4.10-2).

Schools

The Project Site is within the boundaries of the Roseville City School District (RCSD) and Roseville Joint Union High School District (RJUHSD). The RCSD services the City's primary schools and includes 16 elementary schools, 4 middle schools, 1 virtual academy, and 1 preschool. The RJUHSD services secondary schools within the City and includes eight high schools and one adult school. The closest school is Orchard Ranch Elementary School located approximately one quarter mile from the Project Site.

Parks

As described in **Section 3.17.2**, the City's park and recreation facilities are operated by the City of Roseville Parks, Recreation & Libraries Department. The Department is responsible for the development and maintenance of the City's various recreational facilities, including community centers/libraries, parks, public golf courses, public swimming pools, and open space areas (City, 2020a). The closest community parks to the Project Site is Astill Family Park, located approximately 350 feet west of the Project Site and Sierra Crossing Park, located approximately 1,260 feet west of the Project Site.

3.16.3 DISCUSSION OF IMPACTS

Question A – Fire Protection

Would the project: Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services: fire protection?

No New Impact. The Project Site is located in the RFD service area; Vacaville Fire Station 9 is located approximately 0.7 miles east of the Project Site. As described in **Section 3.21** below, the Proposed Project is not located in a very high fire hazard severity zone and does not involve unique slopes or other factors that would exacerbate wildfire risks. While the Proposed Project could be expected to marginally increase demand for fire protection and emergency services compared to existing conditions, the Proposed Project would not create the need for new or expanded fire protection facilities because the Proposed Project is anticipated for within the WRSP. The WRSP EIR included mitigation measures to maintain the City's response time standard for fire services with addition of the Proposed Project (refer to Section 4.10 Public Services of the WRSP EIR, MM 4.10-4 and MM 4.10-5).

Additionally, all building design and construction would be required to comply with the California Fire Code, which includes construction techniques that minimize fire risk. The RFD would conduct a plan check prior to approval of the building permit, which would ensure that appropriate steps are taken to

minimize the risk of fire, by requiring that recommendations of the RFD are implemented, reducing the potential for a fire on the Project Site. No new impacts would occur when compared to the WRSP EIR.

Question B – Police Protection

Would the project: Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services: police protection?

No New Impacts. Law enforcement services within the City are provided by the RPD. The Project Site is within the RPD service area. While the Proposed Project could be expected to marginally increase demand for police protection services compared to existing conditions, the Proposed Project would not create the need for new or expanded police protection facilities because the Proposed Project is anticipated for within the WRSP. The WRSP EIR included mitigation measures to maintain adequate police staffing in response to buildout of the WRSP, which includes the Proposed Project (refer to Section 4.10 Public Services of the WRSP EIR, MM 4.10-1 and MM 4.10-2). No new impacts would occur when compared to the WRSP EIR.

Question C – Schools

Would the project: Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services: schools?

No New Impact. The Proposed Project does not include elements, such as the development of housing, that could potentially increase the population size and put a higher demand on school services. The Proposed Project would not result in a substantial adverse impact to schools. No new impact would occur.

Questions D – Parks

Would the project: Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services: parks?

No New Impact. As described in **Section 3.17.3** below, the Proposed Project involves the construction of a regional sports complex, to include 10 sports fields, a universally accessible playground, parking lots, restrooms, and picnic areas. The Proposed Project would not increase the use of existing neighborhood and regional parks or other recreational facilities, as attendees would largely be visiting the Project Site specifically for the purpose of attending a scheduled game. Therefore, the Proposed Project would not adversely affect City parks. No new impact would occur when compared to the WRSP EIR.

Question E – Public Facilities

Would the project: Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services: other public facilities?

No New Impact. As described in **Section 3.17.3**, impacts to existing recreations facilities would be less than significant, with no new impacts occurring compared to the WRSP EIR. The Proposed Project would draw attendees to the Project Site for the main purpose of attending a scheduled game. This use is not anticipated to affect other public facilities. No new impact would occur when compared to the WRSP EIR.

Cumulative Impacts

No New Impact. As described above, the Proposed Project could potentially increase the demand for fire and police services. However, the Proposed Project would create a negligible demand on these services and is expected and planned for in the WRSP. Therefore, cumulative impacts would be less than significant.

3.16.4 MITIGATION MEASURES

The Proposed Project would not result in any new potentially significant impact to public services not already analyzed in the WRSP EIR. Therefore, no new mitigation measures would be necessary.

3.17 RECREATION

3.17.1 ENVIRONMENTAL CHECKLIST

RECREATION	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☐	☒
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☒	☐

3.17.2 SETTING

The City's park and recreation facilities are operated by the City of Roseville Parks, Recreation & Libraries Department. The Department is responsible for the development and maintenance of the City's various recreational facilities, including community centers/libraries, parks, public golf courses, public swimming pools, and open space areas (City, 2020a). The closest community parks to the Project Site is Astill Family Park, located approximately 350 feet west of the Project Site and Sierra Crossing Park, located approximately 1,260 feet west of the Project Site.

3.17.3 DISCUSSION OF IMPACTS

Question A

Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

No New Impact. The Proposed Project involves the construction of a regional sports complex, to include 10 sports fields, a universally accessible playground, parking lots, restrooms, and picnic areas. The Proposed Project would primarily function to serve pre-rented local and regional sports tournaments and would not serve free-play for the general public. The Proposed Project would not increase the use of existing neighborhood and regional parks or other recreational facilities, as attendees would largely be vising the site specifically for the purpose of attending a scheduled game. The Proposed Project would not adversely affect the capacity or physical conditions of local parks and recreation facilities. Impacts to existing neighborhood and regional parks and other recreations facilities would be less than significant. No new impact would occur when compared to the WRSP EIR.

Question B

Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Less-Than-Significant Impact with Additional Mitigation. The Proposed Project would provide a new recreational facility to the public through the creation of a regional sports complex, playground, and picnic facilities. The construction of this facility has been analyzed throughout this Subsequent Initial Study and potential impacts to the environment have been reduced to less-than-significant levels through appropriate mitigation measures detailed throughout this Subsequent IS.

Cumulative Impacts

Less-Than-Significant Impact with Additional Mitigation*.* The Proposed Project includes construction of a recreational facility. Potential environmental impacts related to the Proposed Project have been mitigated to a less-than-significant level through mitigation measures detailed within this Subsequent IS. Cumulative impacts would be less than significant after mitigation.

3.17.4 MITIGATION MEASURES

Implementation of all new mitigation measures listed throughout this Subsequent Initial Study.

3.18 TRANSPORTATION

Information in this section is summarized from a Transportation Impact Study prepared by Fehr & Peers for the Proposed Project (**Attachment H**).

3.18.1 ENVIRONMENTAL CHECKLIST

TRANSPORTATION	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
Would the project:				
a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	☐	☐	☐	☒
b) Conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b)?	☐	☐	☐	☒
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☐	☒
d) Result in inadequate emergency access?	☐	☐	☐	☒

3.18.2 SETTING

Roadway System

The Project Site is located within the WRSP area, which is actively being developed. As a result, the current roadway network is partially built but not fully connected. The following key roadways would serve the Project Site.

- **Westbrook Blvd.** is a north-south arterial that currently begins a short distance north of Blue Oaks Blvd. and extends for a distance of 2.2 miles to its existing southern terminus south of Pleasant Grove Blvd. The constructed portion of the roadway has two lanes in each direction, separated by a landscaped median. The posted speed limit is 40 mph. Westbrook Blvd. is planned for widening to six lanes and will ultimately extend from Baseline Road on the south to Sunset Blvd. West on the north (within unincorporated Placer County).
- **Blue Oaks Blvd.** is an east-west major arterial that connects the cities of Roseville and Rocklin. It begins a short distance west of Westbrook Blvd. in west Roseville and extends 6.5 miles, terminating at Sunset Blvd. in Rocklin. West of Fiddyment Road, it has one lane in each direction

separated by a striped median. Posted speed limits on this segment range from 45 to 50 mph. East of Fiddyment Road, it is a six-lane median-divided arterial with a posted speed limit of 45 mph. The State Route (SR) 65/Blue Oaks Blvd. interchange is situated about 5 miles east of the Project Site. From this interchange, SR-65 extends north towards the City of Lincoln and south towards I-80. Near the Project Site, Blue Oaks Blvd. is planned for widening to six lanes.

- **Pleasant Grove Blvd.** is an east-west minor arterial that connects the cities of Roseville and Rocklin. It begins a short distance west of Westbrook Blvd. in west Roseville and extends east into Rocklin, where it transitions into Park Avenue at the city limits east of Highland Park Drive. Near the Project Site, it is a four-lane median-divided arterial with a posted speed limit of 45 mph.
- **Phillip Road** is a two-lane roadway that begins at Westpark Drive and extends west into unincorporated Placer County. Phillip Road extends east-west between the Project Site and Westpark Drive and north-south between the Project Site and Westbrook Blvd. The north-south segment of Phillip Road parallels Westbrook Blvd. and measures approximately 14 feet wide. The east-west segment of Phillip Road measures approximately 20 feet wide and primarily serves the Pleasant Grove WWTP and the REP. Near the Project Site, Phillip Road has unpaved shoulders and lacks sidewalks. Phillip Road is discontinuous where it approaches the Blue Oaks Blvd./Westbrook Blvd. intersection.

Bikeways, Pedestrian Facilities, Public Transportation System

Bicycle facilities are typically categorized in the following classifications:

- **Class I Multi-Use Off-Street Paths** (also known as shared-use paths) are paved trails that are separated from roadways and allow for shared use by both cyclists and pedestrians.
- **Class II On-Street Bike Lanes** are designated for use by bicycles by striping, pavement legends, and signs.
- **Class III On-Street Bike Routes** are designated by signage for shared bicycle use with vehicles but do not necessarily include any additional pavement width for bicyclists.
- **Class IV Separated Bikeways** (also known as protected bikeways or cycle tracks) are separated bikeways improve upon buffered bike lanes by providing vertical separation between bike lanes and the adjacent travel lanes. Vertical separation can be provided with concrete curb and gutter, bollards, or on-street parking.

Class II bike lanes are present on Westbrook Blvd. (including along the Westbrook Blvd. Project Site frontage), Blue Oaks Blvd., and Pleasant Grove Blvd. A Class I shared-use path connects the Brookstone neighborhood west of the Project Site with neighborhoods to the south, Nichols Park, and Chilton Middle School.

At present, given that the Project Site area is partially built out, the existing pedestrian network is intermittent. Generally, sidewalks are present along roadway frontages on which development has occurred, including the westerly Westbrook Blvd. frontage from Octave Drive north to approximately 1,000 feet south of Blue Oaks Blvd. as well as on internal roadways within the Brookstone neighborhood.

Currently, sidewalks are not present along the Project Site Westbrook Blvd. frontage, with the exception of the easterly side of both the northerly and southerly Westbrook Blvd./Brookstone Drive intersections. Additionally, sidewalks are not present on either side of Phillip Road between Westbrook Blvd. and Westpark Drive or on the southerly side of Blue Oaks Blvd. between Westbrook Blvd. and Hayden Parkway.

Blue Oaks Blvd. between Westbrook Blvd. and Fiddyment Road is a planned six-lane arterial. As of April 2022, the southerly half section has been constructed from Fiddyment Road westerly to beyond Hayden Parkway. From there, only the northerly half section has been constructed. This explains the lack of continuous sidewalks on both sides of the street (i.e., as they would be "throw-away" if built on the south side of the street west of Westpark Drive, for instance). Marked crosswalks are present on the north, south, and west legs of both the northerly and southerly Westbrook Blvd./Brookstone Drive all-way stop-controlled intersections.

Roseville Transit, operated by the City, provides fixed route bus, dial-a-ride, and paratransit services throughout the City. Fixed-route bus service is not currently provided within the vicinity of the Project Site. The nearest bus stop is located on Pleasant Grove Blvd. at Market Street (Route M), which is approximately 1.5 miles southeast of the Project Site. Roadways within the Project Site area have been designed with bus turnouts to accommodate future fixed-route bus service. Farside bus turnouts are currently present on both northbound and southbound Westbrook Blvd. at Brookstone Drive South.

Roseville Transit dial-a-ride service provides point-to-point service to locations within Roseville City limits, including the Project Site. The service is available to the general public. A single-ride fare for the general public is $3.75. Passengers may also purchase 10-ride passes or discount fares for eligible passengers. Rides can be reserved between 1 and 14 days in advance of the ride.

Parking Demand and Supply

The Traffic Impact Analysis (**Attachment H**) indicates that the Proposed Project would have a peak parking demand of about 800 parking spaces. Since over 950 on-site parking spaces would be provided, the supply of parking appears adequate to meet the projected demand during weekend soccer tournaments.

Project Assumptions

Project programming and operations would be as follows:

- During weekdays, the Proposed Project would be used for practices that run from 3:00 p.m. to 10:00 p.m. According to the City, it is anticipated that the complex would operate with up to five 1.5-hour practice timeslots beginning at 3:00 p.m., 4:30 p.m., 6:00 p.m., 7:30 p.m., and 9:00 p.m. Additionally, the City anticipates that each practice timeslot would accommodate up to two teams per field, which would result in up to 20 teams utilizing the Complex during each practice timeslot. A total of 100 teams could practice at the facility in a single weekday.
- During weekends, the Complex would be used for tournaments and league play. The tournaments would include both regional/national draws and local draws. Games would run

from 8:00 a.m. to 8:00 p.m. The City anticipates that parking fees would be collected from teams as part of the tournament registration process and not on-site during tournaments. This is important for two reasons. First, the lack of on-site parking payment would reduce the likelihood that people would park off-site to avoid parking costs. Second, the lack of on-site parking payment transactions would eliminate delays incurred to entering vehicles typically associated with payment transactions via cash, credit card, etc.

Vehicular access to and from the Project Site would be provided via Westbrook Blvd. For the North Lot, the Westbrook Blvd./Brookstone Drive North intersection would provide ingress and egress and Phillip Road would provide egress only. For the South Lot, the Westbrook Blvd./Brookstone Drive South intersection would provide ingress and egress. The North and South Lots would not be connected via an internal roadway or drive aisle.

The Proposed Project would include the following modifications to both the northerly and southerly Westbrook Blvd./Brookstone Drive intersections:

- Construction of a new east leg. The westbound approach would include two lanes – a shared through-left lane and a right-turn lane.
- Construction of a northbound right-turn pocket with a storage length of approximately 220 feet.

The Proposed Project does not propose to modify the existing all-way stop sign-control or marked crosswalks at either the northerly or southerly Westbrook Blvd./Brookstone Drive intersection. The Proposed Project would construct new sidewalks along the Westbrook Blvd. Project Site frontage, as well as a new north-south pedestrian path through the center of the Project Site. The Proposed Project would include bus parking within the on-site parking lots. The Project Site would occupy a portion of the existing Phillip Road alignment. With the implementation of the Proposed Project, the east-west segment of Phillip Road would have a new westerly terminus at the Project's northerly parking lot (i.e., this segment of Phillip Road would extend between Westpark Drive and the Project Site). The north-south segment of Phillip Road would not provide access to the Project Site.

Traffic Impact Study – Methods

Fehr & Peers conducted Saturday traffic counts and field observations at two representative local soccer tournaments. Detailed information on representative tournaments is found in Section 4 of **Attachment H**. The Traffic Impact Study assumed full use of the Complex to avoid underestimating the trip generation potential of the Proposed Project.

Existing weekday PM peak period traffic volume data indicates that the peak hour of adjacent street traffic is 4:30 p.m. to 5:30 p.m. The weekday PM peak hour project trip generation represents departure activity for the first practice timeslot at 3:00 p.m. and arrival activity for the practice timeslot at 4:30 p.m.

Estimated Project Trip Generation and Distribution

Table 3-15 displays the Saturday daily and AM peak hour trip generation of each type of sports tournament, as well as the weekday daily and PM peak hour trip generation during a typical weekday with practices held at the complex.

TABLE 3-15. VEHICLE TRIP GENERATION

ANALYSIS SCENARIO	OCCUPIED FIELDS	DAILY	PEAK HOUR[1]		
			IN	OUT	TOTAL
Weekday[2]	10	4,800	480	480	960
Saturday (Tournament)[3]	10	8,000	537	537	1,074

Note:

[1] Peak hours defined as 4:30 p.m. to 5:30 p.m. for weekdays and 10:15 a.m. to 11:15 a.m. for Saturday tournaments.

[2] Weekday estimates derived based on the following parameters:

Weekday practices would utilize all 10 fields during each of three practice timeslots at 3:00 p.m., 4:30 p.m., 6:00 p.m., 7:30 p.m., and 9:00 p.m.

Each field would accommodate two teams per field during each practice timeslot.

Each team would have an average of 16 players and 2 coaches present at practice, for a total of 18 personnel per team.

Two-thirds of the players would be picked-up/dropped-off and one-third of the players would be drive/park.

Average vehicle occupancy would be 1.2 for players and 1.1 for coaches.

[3] Estimates derived from observations recorded at the Rick Hitch Tournament at Maidu Regional Park on Saturday, August 15, 2015.

Figure 4 of **Attachment H** displays the expected distribution of trips for a local/semi-regional soccer tournament. Figure 5 of **Attachment H** shows the expected distribution of weekday soccer practices. Based on the Project Description, it is anticipated that the majority of attendees would come from local residential areas (i.e., from within the South Placer area or portions of unincorporated Sacramento County).

Vehicle Miles Traveled Analysis

The Project Site would be situated within the WRSP area on parcels WB-50E, WB-60E, and WB-60B, which have Park, Park (Sports Complex), and Light Industrial land use designations, respectively. VMT associated with these planned uses were included in the VMT impact analysis presented in the *Final Transportation Impact Study for the Roseville Housing Element Update*.

Total daily weekday VMT that would be generated by the Project Site was estimated for two scenarios. The first scenario assumes that the Project Site would develop with the planned uses identified in the WRSP. The second scenario assumes that the Project Site would develop as proposed by the Proposed Project. Because this analysis focuses on VMT that would be generated by the Project Site on a typical weekday, this analysis considers vehicle travel activity associated with evening practices that would occur on a typical weekday at the Complex.

Daily vehicle trips were estimated using trip generation rates presented in the *ITE Trip Generation Manual, 11th Edition* (for the planned Light Industrial uses), the City Travel Demand model (for the

planned Park uses), and based on the anticipated users of the Complex (which would be comprised of six fields based on the planned Park Sports Complex uses or 10 fields based on the Proposed Project). Total daily weekday VMT was then estimated by multiplying the total daily vehicle trips by the average trip length for each component.

Average trip lengths for the planned Light Industrial uses were estimated using data presented in the *Roseville Industrial Park Project Administrative Draft EIR.* This document estimated average trip lengths for the planned industrial park uses that would be present at the Roseville Industrial Park project site, which is located approximately 1 mile northwest of the Project Site. Therefore, these average trip lengths are comparable to those that would be expected of vehicle trips generated by the currently planned Light Industrial uses at the Project Site.

Average trip lengths for users of the Complex uses were estimated based on the geographic distribution of residents aged 5 to 17 years old within the Roseville and north Sacramento County areas according to block group-level data presented in the American Community Survey 2020 5-Year Estimates. This method was selected because this demographic would represent the primary users and vehicle trip generators associated with the Complex uses.

Information provided by the City indicates that while the Complex would primarily serve local teams, it would also be utilized by the Placer United Soccer Club, which draws from greater Placer County and northern Sacramento County areas. According to the City, the Placer United Soccer Club would utilize up to three fields for weekday evening practices. Accordingly, for the currently planned six-field sports complex, it is assumed that three fields would be utilized by the Placer United Soccer Club and three fields would be utilized by local teams. Moreover, for the proposed 10-field sports complex, it is assumed that three fields would be utilized by the Placer United Soccer Club and seven fields would be utilized by local teams. Average trip lengths for trips associated with the Placer United Soccer Club practices were derived based on the geographic distribution of residents aged 5 to 17 years old in Roseville, Rocklin, Lincoln, Loomis, Granite Bay, Antelope, Foothill Farms, Citrus Heights, Orangevale, Fair Oaks, Carmichael, North Highlands, Rio Linda, and Elverta and their respective travel distances to/from the Project Site. Average trip lengths for trips associated with local teams were derived based on the geographic distribution of residents aged 5 to 17 years old in Roseville only and their respective travel distances to/from the Project Site.

Significance Criteria

This section describes the significance criteria used to evaluate impacts from the Proposed Project to the roadway system (via its VMT contribution) as well as to the bicycle, pedestrian, and transit systems. These thresholds are based on Appendix G of the CEQA *Guidelines* and various plans published by the City.

Impacts to the transportation system would be significant if the Proposed Project would:

- Roadway System
    - Exceed the applicable VMT threshold.
- Bicycle Facilities

- Conflict with adopted policies, plans, or programs regarding bicycle facilities.

- Pedestrian Facilities
  - Conflict with adopted policies, plans, or programs regarding pedestrian facilities.
- Transit Service and Facilities
  - Conflict with adopted policies, plans, or programs regarding transit facilities or service.
- Hazards
  - Substantially increase hazards due to geometric design features (e.g., sharp curves or dangerous intersections) or incompatible uses, or inadequate emergency access.

Regulatory Setting

State

California Department of Transportation

Caltrans is responsible for planning, designing, constructing, operating, and maintaining the State Highway System (SHS). Federal highway standards are implemented in California by Caltrans. Any improvements or modifications to the SHS would need to be approved by Caltrans. The following Caltrans planning documents emphasize the State's focus on transportation infrastructure that supports mobility choice through multimodal options, smart growth, and efficient development.

- Smart Mobility 2010: A Call to Action for the New Decade (Caltrans, 2010a).
- Complete Streets Implementation Action Plan (Caltrans, 2010b).
- California Transportation Plan 2040 (Caltrans, 2016).
- Strategic Management Plan 2015-2020—2019 Update (Caltrans, 2019a).

Caltrans' Local Development – Intergovernmental Review Program (LD-IGR) provides guidance on the evaluation of traffic impacts to State highway facilities. The *Vehicle Miles Traveled-Focused Transportation Impact Study Guide* (Caltrans, 2020a) provides guidance on the evaluation of traffic impacts to State highway facilities. This study guide provides guidance to Caltrans districts, lead agencies, tribal governments, developers, and consultants based on changes to the agency's review process for transportation analysis of land use projects and plans under the updated CEQA *Guidelines*. The guide outlines how Caltrans reviews land use projects with a focus on supporting State land use goals, State planning priorities, and GHG emission reduction goals. It also identifies the possible transportation impacts on the SHS and potential non-capacity increasing mitigation measures for land use projects. The guide also emphasizes that VMT analysis is the primary review focus of Caltrans and references the Office of Planning and Research's (OPR) Technical Advisory as a basis for its guidance, referencing screening thresholds that would identify projects presumed to have a less-than-significant transportation impact. Notably, it recommends use of the thresholds in the Technical Advisory for land use projects. Caltrans supports streamlining for projects that meet these screening thresholds because they help achieve VMT reduction and mode shift goals.

The *Interim Local Development Intergovernmental Review Safety Review Practitioners Guidance* (Caltrans, 2020b) provides updated guidance to Caltrans districts, lead agencies, developers, and

consultants conducting safety review for proposed land use projects and plans that would affect the SHS. The interim guidance recommends that safety analyses include a review of three primary elements related to transportation safety—design standard compliance, collision history, and collision risk (consistent with the Federal Highway Administration's Systemic Approach to Safety). The interim guidance does not establish specific analysis methods or significance thresholds for determining safety impacts under CEQA. Additionally, Caltrans notes that local agencies may use the interim guidance at their own discretion as a guide for review of local facilities. Finally, the interim guidance states that Caltrans District traffic safety staff will use available data to determine if the proposed project may influence or contribute to significant impacts to the SHS.

Senate Bill 743

SB 743, passed in 2013, required the California Governor's OPR to develop new guidelines that address transportation metrics under CEQA. Enacted as part of SB 743 (2013), PRC § 21099, subdivision (b)(1), directed the OPR to prepare, develop, and transmit to the Secretary of the Natural Resources Agency for certification and adoption proposed CEQA *Guidelines* addressing "criteria for determining the significance of transportation impacts of projects within transit priority areas. Those criteria shall promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses. In developing the criteria, [OPR] shall recommend potential metrics to measure transportation impacts that may include, but are not limited to, vehicle miles traveled, vehicle miles traveled per capita, automobile trip generation rates, or automobile trips generated."

Subdivision (b)(2) of PRC § 21099 further provides that "[u]pon certification of the guidelines by the Secretary of the Natural Resources Agency pursuant to this section, automobile delay, as described solely by level of service or similar measures of vehicular capacity or traffic congestion shall not be considered a significant impact on the environment pursuant to [CEQA], except in locations specifically identified in the guidelines, if any."

OPR published its proposal for the comprehensive updates to the CEQA *Guidelines* in November 2017 which included proposed updates related to analyzing transportation impacts pursuant to SB 743. The updated CEQA *Guidelines* were adopted on December 28, 2018; and according to the new CEQA *Guidelines* § 15064.3, VMT replaced congestion as the metric for determining transportation impacts. The *Guidelines* state that "lead agencies may elect to be governed by these provisions of this section immediately. Beginning July 1, 2020, the provisions of this section shall apply statewide."

To provide guidance to agencies implementing the new CEQA requirements, OPR published the *Technical Advisory on Evaluating Transportation Impacts in CEQA* (Technical Advisory) in December 2018. The Technical Advisory describes considerations agencies may use in selecting VMT metrics, calculation methodologies, and significance thresholds. The Technical Advisory does not mandate the use of specific metrics, methodologies or significance thresholds, because agencies have discretion to select those that are appropriate for the local land use and transportation context.

Local

City of Roseville 2035 General Plan

The following policies from the *City of Roseville 2035 General Plan* (2020) are applicable to the Proposed Project.

- **Policy CIRC1.4:** Maintain a system of truck routes to provide for the safe and efficient movement of goods and to avoid impacting residential neighborhoods.
- **Policy CIRC3.1:** Promote transit service that is convenient, cost-effective, and responsive to the challenges and opportunities of serving Roseville and surrounding communities, and explore opportunities for transit innovation and service improvements.
- **Policy CIRC3.5:** Consider access to health care, community services and employment, and the needs of persons who may be transit-dependent when making decisions regarding transit service.
- **Policy CIRC3.7:** Pursue transit routes that optimize ridership.
- **Policy CIRC4.1:** The City will review and condition projects as appropriate, to reduce travel demand per capita and per employee by promoting increased density near transit, improving the quality of non-vehicular transportation options, providing incentives for non-vehicular travel, encouraging the mixing of complementary land uses in proximity to one another, and using other feasible methods.
- **Policy CIRC4.3:** Specific Plan Amendments and land use development projects not included in a Specific Plan shall be evaluated for consistency with the City's VMT Impact Standards.
- **Policy CIRC4.4:** If the evaluation required by CIRC4.3 finds a Specific Plan Amendment or land use development project not included in an adopted Specific Plan is inconsistent with thresholds established within the City's VMT Impact Standards, on-site land use, transportation, and urban design-related VMT-reducing features should be prioritized to demonstrate consistency. If feasible on-site features cannot achieve the VMT threshold, Specific Plan Amendments and land use development projects outside Specific Plan Areas may demonstrate equivalent consistency through off-site actions or fair-share fee contributions, or if consistency cannot be achieved, shall implement all feasible measures.
- **Policy CIRC5.1:** Develop a comprehensive and safe system of recreational and commuter bicycle routes and trails that provides connections between the City's major destinations (including employment) and housing areas and between its existing and planned bikeways.
- **Policy CIRC6.1:** Establish and maintain a safe and continuous pedestrian network that provides connections between residential areas and commercial retail and services, employment, public services, parks, and public transit.
- **Policy CIRC6.3:** Enhance pedestrian-friendly street environments and design public spaces and destinations in a way that encourages walking.
- **Policy CIRC6.4:** Sidewalks shall be required in all new Specific Plan Areas, with new roadway construction, and with roadway expansion.

- **Policy CIRC6.5:** In reviewing proposed development projects and implementing public projects, the City will incorporate standards designed to protect the security of pedestrians and minimize the potential for collisions involving pedestrians.

It should be noted that **Policy CIRC2.1** of the City's General Plan requires that the City maintain a Level of Service (LOS) C standard at a minimum of 70% of all signalized intersections and roadway segments in the City during the AM and PM peak hours. However, as described in CEQA *Guidelines* § 15064.3, LOS is no longer an impact under CEQA and is not required to be evaluated under the Proposed Project.

West Roseville Specific Plan

Figure 7-1 of the WRSP illustrates the planned roadway system within the WRSP area. At buildout, the WRSP identifies the following major roadway facilities within the vicinity of the Project Site.

- Blue Oaks Blvd. is planned for a six-lane arterial.
- Westbrook Blvd. (previously referred to as West Side Drive) is planned for a six-lane arterial.
- Pleasant Grove Blvd. is planned for a four-lane arterial.
- New traffic signals are planned for the intersections of Blue Oaks Blvd./Westbrook Blvd., Blue Oaks Blvd./Westpark Drive, Westbrook Blvd./Brookstone Drive North, and Westbrook Blvd./Brookstone Drive South.

The WRSP requires the provision of sidewalks on all WRSP area roadways. Planned bikeways include Class II bike lanes on all arterial and collector roadways (including Westbrook Blvd., Pleasant Grove Blvd., and Blue Oaks Blvd.) and a network of off-street Class I shared-use paths.

Traffic Impact Fee Programs

The City currently participates in four traffic mitigation fee programs to fund capital projects in the City and in south Placer County. Within the City, traffic impact fees are used to fund improvements contained in the Capital Improvement Program (CIP). The funding for those improvements is nexus-based and is designed to fund improvements. The fee structure considers both the number and length of trips generated by new land developments. As such, it is considered a type of VMT-based fee program. The traffic mitigation fees are collected by the participating agencies at building permit issuance. The payment of City impact fees in lieu of improvements has typically been determined to be acceptable mitigation for transportation impacts caused by a project.

City of Roseville Bicycle Master Plan

The *City of Roseville Bicycle Master Plan* (2008) includes the following policies that are relevant to the project:

- Support facilities that encourage bicycling should, to the extent feasible, be made a standard component of all new public and private projects.
- Provide short-term bike parking (bike racks) conveniently located at businesses entrances and safe, secure long-term covered bike parking (lockers, cages, rooms) at employment sites.
- Where construction operations occur near Class II or III bikeways, the developer/contractor will be responsible for maintaining clear and clean paths of travel.

- Street maintenance overlay projects and other construction projects within the public right-of-way and along designated bikeways shall be reviewed for conformance with the Bicycle Master Plan. Where existing facilities are not in conformance with the Bicycle Master Plan and current City standards, the facilities may be brought up to standards where determined feasible by the Public Works Director/City Engineer.

Figure 5 of the Bicycle Master Plan illustrates future proposed bicycle facilities throughout the City. Within the Project Site vicinity, the Bicycle Master Plan identifies new Class II bike lanes and a new Class I shared-use path on Westpark Drive. Additionally, the Bicycle Master Plan identifies a new Class I shared-use path along Kaseberg Creek (generally traversing east-west along the northerly side of Blue Oaks Blvd.).

City of Roseville Pedestrian Master Plan

The *City of Roseville Pedestrian Master Plan* (2011) was adopted by the City Council to establish policies, projects, and programs that improve the pedestrian system in the City and increase walking for transportation, recreation, and health. The Pedestrian Master Plan includes goals, policies, and implementation measures for pedestrian improvements and programs; a recommended pedestrian network; and a CIP that establishes a 20-year framework for improvements to the pedestrian environment. The Pedestrian Master Plan includes the following policies that are relevant to the Proposed Project:

- Provide continuous and direct pedestrian connections between residential areas, schools, shopping areas, public services, employment centers, parks, and public transit stops.
- Include sidewalks in the planning and design of all new, reconstructed or widened streets. Sidewalks should be installed on both sides of the street, unless circumstances call for an exception.
- Sidewalks and street crossings should provide access for all people, regardless of physical abilities, consistent with the Americans with Disabilities Act (ADA) and ADA Transition Plan.

Figure 8 of the Pedestrian Master Plan illustrates ranked sidewalk gap closure projects throughout the City. The Pedestrian Master Plan does not identify ranked sidewalk gap closure projects within the vicinity of the Project Site.

City of Roseville Final Short-Range Transit Plan 2018–2025

The *City of Roseville Final Short-Range Transit Plan (SRTP) 2018-2025* (LSC, 2018) provides a detailed business plan to guide transit improvements in the City. The plan reviews demographics and transit needs, evaluates effectiveness and efficiency of existing services, analyzes a wide range of system options, and provides operational, capital and institutional plans, including an implementation plan. The City's plan was prepared jointly with the development of parallel SRTPs for Placer County Transit, Auburn Transit, and the Western Placer Consolidated Transit Service Agency. The plan acknowledges there are many large development projects in West Roseville that could increase transit demand in the area by 2025. To this end, Figure 25 of the SRTP shows three concept bus routes that would operate on Blue Oaks Blvd., Pleasant Grove Blvd., or Vista Grande Blvd. west of Fiddyment Road.

The SRTP recommends a detailed transit master planning process for West Roseville. As noted on page 170 of the SRTP, "While general land uses and policies have been defined for these areas (including the need for transit services and the provision of funding strategies for transit), specific routes, stops and schedules will depend on more detailed planning to be developed over the next several years. Once this detail is available, transit master planning for these areas should be conducted. An additional route into the area along the Blue Oaks Blvd. corridor will ultimately be warranted."

City of Roseville Design and Construction Standards

Section 4 of the *2021 Amendments to City of Roseville Design and Construction Standards* provides guidance for how to analyze VMT impacts of proposed land developments within the City. The following guidance and recommendations are contained in that document (TS16 through TS22):

- A project may be screened from additional VMT analysis if it meets any of nine distinct screening criteria.
- A quantitative study of VMT analysis is generally required if the project does not meet any of the conditions for screening. For non-residential projects, analysis should be based on VMT per service population, where service population consists of the total number of residents and employees. The service population methodology includes home-based production VMT and VMT from all other sources, including trips attracted from homes outside of the area into the area for work, shopping, or other purposes and trips with neither end at the home (such as from work to shopping). VMT is based on the full length of each trip, including distance outside of the City. VMT estimates are to be produced using the City of Roseville travel demand model.
- An alternative metric (e.g., VMT/employee) may be applied if it relies on the data and analysis of the current citywide VMT analysis and is reviewed and approved by the City.
- Factors to convert Roseville travel forecasting model inputs (i.e., square footage) to employment (as used in development of the General Plan) are presented in Table VMT-1 of the General Plan.
- The analysis conducted for VMT studies shall be documented in a report for review by the City, with supporting tables and figures. It shall be the intent of the VMT study to evaluate the reasonable worst-case impacts for the proposed development allowed by zoning unless a specific use/user is identified by the applicant.
- A project would have a significant impact if it exceeded a threshold of which is 15% below existing Citywide development VMT (baseline VMT per service population for non-residential projects).
- If a proposed project can be shown to result in a net overall decrease in total City VMT when compared to baseline VMT, the project would lead to a less-than-significant transportation impact.
- If screening is not used, explanation should be provided on how VMT was calculated. This should include a description of metrics, models and tools, inputs for the analysis, and thresholds used.
- If it is concluded that the project would exceed the significance threshold, a list of feasible mitigation measures which would either reduce impacts to below the threshold, or reduce

impacts to the extent feasible shall be provided, beginning with on-site measures. The VMT-reducing effects of each measure shall be quantified to the extent feasible.

3.18.3 DISCUSSION OF IMPACTS

Question A

Would the project: Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

No New Impact.

Transit Facilities: As described previously, fixed-route bus service is not currently provided within the vicinity of the Project Site. Roseville Transit Dial-a-Ride service provides on-demand transit service to the Project Site. Farside bus turnouts are currently present on both northbound and southbound Westbrook Blvd. at Brookstone Drive South to accommodate future bus service. Moreover, the Proposed Project would include the provision of bus parking within the on-site parking lots to accommodate buses and shuttle associated with tournaments and other events. The Proposed Project would not cause a physical disruption to existing transit service or facilities. The Proposed Project would not interfere with the implementation of planned transit service or facilities identified in the City's General Plan, the WRSP, or the City's SRTP. No new Impacts would occur related to transit.

Roadway Facilities: Impacts to the roadway system would be significant if VMT thresholds were exceeded. As described in Question B below, the Proposed Project would result in a net decrease of 11,275 total daily weekday VMT when compared to the VMT that would be generated by the Project Site if it were developed with its planned land uses. Therefore, impacts to VMT would be less than significant and no new impact would occur compared to the WRSP EIR.

Bicycle Facilities: As shown on Figure 3 of **Attachment H**, a continuous set of on-street and/or off-street bicycle facilities are present to connect the Project Site with surrounding neighborhoods. The Proposed Project would not modify these existing bicycle facilities or implement new bicycle facilities. A bicyclist could ride on Class II bike lanes continuously from the Project Site along Westbrook Blvd. to Blue Oaks Blvd., Pleasant Grove Blvd., and beyond. Similarly, bicyclists could ride on the existing Class I shared-use path along Curry Creek to access the Project Site from various nearby residential communities such as Westpark. While the Project Site does not have continuous access to the City's Class I off-street path system, City policies related to biking do not mandate this be present to achieve consistency with policies because continuous Class II bike lanes are provided to accommodate bicycle travel. The Proposed Project would not cause a physical disruption to existing bicycle facilities. Moreover, the Proposed Project would not interfere with the implementation of planned bicycle facilities identified in the City's General Plan, West Roseville Specific Plan, or Bicycle Master Plan. No new impacts would occur related to bicycle facilities.

Pedestrian Facilities: The Proposed Project would not cause a physical disruption to existing pedestrian facilities. Moreover, the Proposed Project would not interfere with the implementation of planned pedestrian facilities identified in the City's General Plan, WRSP, or Pedestrian Master Plan. As shown on Figure 3 of **Attachment H**, continuous pedestrian facilities are currently lacking on Westbrook Blvd. near

the Project Site. In addition to constructing new pedestrian pathways internal to the Project Site, the Proposed Project would include the construction of new sidewalks on the easterly side of Westbrook Blvd. along the Project Site frontage. The Transportation Impact Study (**Attachment H**) noted that sidewalk gaps would remain that would discourage people from walking to and from the Project Site, which would be inconsistent with City General Plan Policies CIRC 6.1, CIRC 6.3, and CIRC 6.5, which call for establishing and maintaining a safe and continuous pedestrian network that encourages walking. However, sidewalk improvements connecting remaining sidewalk gaps on the easterly side of Westbrook Blvd. between Blue Oaks Blvd. and Payson Avenue would be constructed as a condition of development of the adjacent parcels, as required by City Design and Improvement Standards, and the Roseville Municipal Code Section 13.08.020 (Streets and Sidewalks). No new impacts would occur related to pedestrian facilities.

Construction of the Proposed Project would result in temporary lane closures. Lane closures, if not properly regulated, could potentially conflict with a program, plan, ordinance, or policy addressing the circulation system. This would be a potentially significant impact. However, compliance with City *Construction and Design Standards* would require the preparation and approval of a Traffic Management Plan prior to the start of construction activities. The Traffic Management Plan would describe the locations and duration of anticipated lane closures and would ensure that adequate emergency access is provided to all land uses adjacent to construction activities. Therefore, based on the above, the Proposed Project would not conflict with an applicable plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities, and no new impacts would occur.

Question B

Would the project: Conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b)?

No New Impact. Section 15064.3 was recently added to the CEQA *Guidelines* and describes specific considerations for evaluating a project's transportation impacts. Section 15064.3(b) establishes VMT as the most appropriate measure of transportation impacts, shifting away from the use of LOS analysis that evaluates a project's impacts on traffic conditions at nearby roadways and intersections.

Page 4.3-29 of the *City of Roseville General Plan Update Final EIR* (2020) contains the following statements regarding VMT analysis: "Quantitative analysis would not be required if it can be demonstrated that a project is consistent with the General Plan and would generate VMT which is equivalent to or less than what was assumed in this General Plan EIR."

Following the preparation of the General Plan Update and the accompanying *City of Roseville General Plan Update Final EIR*, the City's travel demand model and VMT metrics were updated as part of the City's Housing Element Update and accompanying *Final Transportation Impact Study for the Roseville Housing Element Update*. This effort was more than just a study of modifications in zoning for the Housing Element Update, which was adopted by the City Council on August 18, 2021. Accordingly, the VMT impact analysis presented in the *Final Transportation Impact Study for the Roseville Housing Element Update* represents the most comprehensive and up-to-date VMT metrics for the City.

Page TI 16-22 of the January 2021 Amendments to the City of Roseville Design and Constructions Standards contains the following statements regarding VMT analysis:

"A project may be screened from additional VMT analysis if it meets one or more of the following criteria. These criteria are based on the Governor's [OPR] Technical Advisory on Evaluating Transportation Impacts in CEQA."

1. **Within Scope of Prior CEQA Analysis**. The VMT generated by the Proposed Project is within the scope of a prior CEQA analysis, and is therefore covered by a prior analysis, Prior analysis includes analysis performed for the General Plan.

VMT for the Proposed Project was calculated and compared to the VMT of the original planned uses of the Project parcels under the WRSP. Refer to **Section 3.18.2** above for the methodology used to calculate VMT. As shown in **Table 3-16**, the Proposed Project, if implemented, would result in a net decrease of 11,275 total daily weekday VMT when compared to the VMT that would be generated by the site if it were developed with its planned land uses under the WRSP EIR. Therefore, the Proposed Project would generate less VMT than what was proposed in the WRSP EIR and would be consistent with CEQA *Guidelines* § 15064.3 (b). No new impact would occur compared to the WRSP EIR.

TABLE 3-16. WEEKDAY VEHICLE MILES TRAVELED COMPARISON

LAND USE	QUANTITY	DAILY VEHICLE TRIPS	DAILY VMT[1]
Planned Land Uses[2]			
Park – Parcel WB-50E	3.1 acres	8	54
Park (Sports Complex) – Parcel WB-60A	6 fields[3]	2,870	22,344[4]
Industrial – Parcel WB-60B	30 acres (561.924 ksf)[5]	2,304[6]	24,192[7]
	Total	**5,182**	**46,590**
Proposed Roseville Sports Complex Project			
Roseville Soccer Complex	10 fields	4,800	35,314[4]
	Total	**4,800**	**35,314**
Difference (Project Minus Planned)			
	Total	**-382**	**-11,275**

Notes:

[1] Refer to technical appendix of **Attachment H** for detailed calculations.

[2] Planned land uses represent those identified in the *West Roseville Specific Plan*.

[3] Planned 25.2-acre sports complex would accommodate an estimated 6 fields.

[4] Average trip lengths for trips derived based on the geographic distribution of residents aged 5 to 17 years old in Roseville, Rocklin, Lincoln, Loomis, Granite Bay, Antelope, Foothill Farms, Citrus Heights, Orangevale, Fair Oaks, Carmichael, North Highlands, Rio Linda, and Elverta based on US Census 2020 ACS data and their respective travel distances to/from the project site. In both scenarios, three fields would be utilized by the Placer United Soccer Club, which would draw from all of these communities. The remaining fields would be utilized by local teams and would draw from Roseville only.

[5] Floor area ratio (FAR) of 0.43 derived from the proposed industrial park project analyzed in the Roseville Industrial Park EIR.

[6] Trip generation based on trip rates from *Trip Generation Manual, 11th Edition* (ITE 2021).

[7] Average trip length of 10.5 miles derived from the proposed industrial park project analyzed in the Roseville Industrial Park EIR.

Source: **Attachment H**

Question C

Would the project: Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

No New Impact. The Proposed Project would modify the Westbrook Blvd./Brookstone Drive North and Westbrook Blvd./Brookstone Drive South intersections. The proposed intersection modifications would adhere to applicable City roadway design standards. The Proposed Project would not include any modifications to the existing circulation system in the vicinity of the Project Site that would result in a traffic safety hazard. Therefore, the Proposed Project would not substantially increase hazards due to a geometric design feature or incompatible uses. No new impact would occur.

Question D

*Would the project: Result in inadequate e*mergency access?

No New Impact. Roseville's existing roadway and transportation network provides accessibility for fire, police, and other emergency service providers. Additionally, traffic signals in the City include emergency vehicle pre-emption equipment that would allow emergency responders to turn the signal green, allowing for efficient access to the scene. The Proposed Project would not create roadway and transportation facilities that impede access for emergency response vehicles.

Construction of the Proposed Project could result in temporary lane closures. Lane closures, if not properly regulated, could potentially result in inadequate emergency access. This would be a potentially significant impact. However, compliance with the City of Roseville *Construction and Design Standards* would require the preparation and approval of a Traffic Management Plan prior to the start of construction activities. The Traffic Management Plan would describe the locations and duration of anticipated lane closures and would ensure that adequate emergency access is provided to all land uses adjacent to construction activities. No new impact would occur.

Cumulative Impacts

No New Impact. As described above, the Proposed Project would not have a significant impact on VMT. The Proposed Project, as well as other potential construction projects in the vicinity, would be required to implement a Traffic Management Plan, which would ensure that no transportation impacts would

occur related to adequate emergency access. Therefore, the Proposed Project would not contribute to cumulative impacts and no new impact would occur.

3.18.4 MITIGATION MEASURES

The Proposed Project would not result in any new potentially significant impact to transportation not already analyzed in the WRSP EIR. Therefore, no new mitigation measures would be necessary.

3.19 Tribal Cultural Resources

3.19.1 ENVIRONMENTAL CHECKLIST

TRIBAL CULTURAL RESOURCES	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
Would the project:				
a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
i. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	☐	☐	☒	☐
ii. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code § 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code § 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☐	☐	☒	☐

3.19.2 SETTING

California Native American prehistoric, historic, archaeological, cultural, and sacred places are essential elements in tribal cultural traditions, heritages, and identities. Because CEQA calls for a sufficient degree of analysis, tribal knowledge about the land and tribal cultural resources at issue are included in environmental assessments for projects that may have a significant impact on tribal cultural resources (TCR). TCRs can only be identified by members of the Native American community, thus requiring consultation under CEQA.

Regulatory Context

AB 52, signed into law in 2014, established a new category of resources in CEQA called "tribal cultural resources" that considers the tribal cultural values in addition to the scientific and archaeological values when determining impacts and mitigation. Pursuant to PRC, Division 13, § 21074, TCRs can be either:

1. Sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either:
    a. Included or determined to be eligible for inclusion in the CRHR; or
    b. Included in a local register of historical resources as defined in subdivision (k) of Section 5020.1.
2. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to the eligibility criteria for the CRHR (PRC § 5024.1(c)). In applying these criteria, the lead agency must consider the significance of the resource to a California Native American Tribe.

Native American tribes traditionally and culturally affiliated with a geographic area may have expertise concerning their TCRs. In light of this, AB 52 requires that, within 14 days of a decision to undertake a project or determination that a project application is complete, a lead agency shall provide written notification to California Native American tribes that have previously requested placement on the agency's notice list. Notice to tribes shall include a brief project description, location, lead agency contact information, and the statement that the tribe has 30 days to request consultation. The lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a tribe.

Consultation

A request was sent to the NAHC on March 22, 2022 asking for a search of the Sacred Lands File and for a list of contacts who might have information regarding cultural resources within the Proposed Project area. The NAHC responded on April 8, 2022. The City completed AB 52 consultation, sending notification letters on February 3, 2022 to the following tribes: UAIC, Ione Band of Miwok Indians, Tsi Akim Maidu, Shingle Springs Band of Miwok Indians, and Wilton Rancheria. Responses were received from UAIC and Wilton Rancheria, initiating consultation. However, Wilton Rancheria did not respond to subsequent communication and a letter was sent on April 19, 2022 closing consultation with the Wilton Rancheria.

UAIC responded on February 18, 2022 stating that they had no knowledge of TCRs near the Project Site and asking that both recommendations and unanticipated discovery mitigation measures be added to the Subsequent IS. UAIC is a federally recognized Tribe comprised of both Miwok and Maidu (Nisenan) Tribal members who are traditionally and culturally affiliated with the area surrounding the Proposed Project. The Tribe has a deep spiritual, cultural, and physical ties to their ancestral land and are contemporary stewards of their culture and landscapes. The Tribal community represents a continuity and endurance of their ancestors by maintaining their connection to their history and culture. It is the Tribe's goal to ensure the preservation and continuance of their cultural heritage for current and future generations. UAIC stated that they conducted a records search for the identification of TCRs for the

Proposed Project which included a review of pertinent literature and historic maps, and a records search using UAIC's Tribal Historic Information System (THRIS). UAIC's THRIS database is composed of UAIC's areas of oral history, ethnographic history, and places of cultural and religious significance, including UAIC Sacred Lands that are submitted to the NAHC. The THRIS resources shown in this region also include previously recorded indigenous resources identified through the California Historic Resources Information System Center as well as historic resources and survey data. UAIC provided recommended mitigation measures regarding post-review discovery procedures, which have been included as **Mitigation Measure TCR-1** below.

3.19.3 DISCUSSION OF IMPACTS

Question A

Would the project: Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in PRC § 5020.1(k)?

Less-Than-Significant Impact with Additional Mitigation. As discussed above in **Section 3.6**, no TCRs were identified during cultural resources investigations or during consultation with Native American tribes. However, there is the possibility that unanticipated discoveries of subsurface archaeological deposits or human remains may occur. This is a potentially significant impact. MM 4.8-1 and MM 4.8-2 of the WRSP EIR, which provide for the protection of unanticipated finds made during ground disturbing activities, would reduce impacts to TCRs to a less-than-significant level. During consultation performed in 2022, UAIC provided new recommended mitigation measures to ensure proper post-review discovery procedures. These measures are included as **Mitigation Measure TCR-1** below. With implementation of new **Mitigation Measure TCR-1**, impacts would be less than significant.

Question B

Would the project: Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code § 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code § 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

Less-Than-Significant Impact with Additional Mitigation. As discussed in **Section 3.6**, no TCRs were identified during cultural resources investigations. However, there is the possibility that unanticipated discoveries of subsurface archaeological deposits or human remains may occur. This is a potentially significant impact. MM 4.8-1 and MM 4.8-2 of the WRSP EIR, which provide for the protection of

unanticipated finds made during ground disturbing activities, would reduce impacts to TCRs to a less-than-significant level. During consultation performed in 2022, UAIC provided a new recommended mitigation measures to ensure proper post-review discovery procedures. These measures are included as **Mitigation Measure TCR-1** below. With implementation of new **Mitigation Measure TCR-1**, impacts would be less than significant.

Cumulative Impacts

Less-Than-Significant Impact with Additional Mitigation*.* Development of the Proposed Project may impact TCRs, adding to cumulative impacts from other projects in the region. TCRs that could be affected by the Proposed Project as well as others in the region are subject to protections under PRC §§ 5024.1, 21083.2, and 21084.1, and CEQA *Guidelines* § 15064.5. Given the non-renewable nature of TCRs, any impact to TCRs is potentially cumulatively considerable. If resources are uncovered during construction, application of the consultation process under WRSP EIR MM 4.8-1 and MM 4.8-2, and new **Mitigation Measure TCR-1** would reduce impacts to TCRs to a less-than-significant level. Application of similar measures to TCRs located within the region would similarly reduce the Proposed Project's incremental contribution to cumulative impacts to TCRs to a less-than-significant level.

3.19.4 MITIGATION MEASURES

TCR-1 Post-Review Discovery Procedures

If subsurface deposits believed to be cultural or human in origin, or TCRs, are discovered during construction, all work shall halt within a 100-foot radius of the discovery, and the Construction Manager shall immediately notify the City's Development Services Director by phone. The Construction Manager shall also immediately contact a qualified professional archaeologist, meeting the Secretary of the Interior's Professional Qualification Standards for archaeology and subject to approval by the City, to evaluate the significance of the find and develop appropriate management recommendations. All management recommendations shall be provided to the City in writing for the City's review and approval. If recommended by the qualified professional and approved by the City, this may include modification of the no-work radius.

The professional archaeologist must make a determination, based on professional judgement and supported by substantial evidence, within one business day of being notified, as to whether or not the find represents a cultural resource or has the potential to be a TCR. The subsequent actions will be determined by the type of discovery, as described below. These include: 1) a work pause that, upon further investigation, is not actually a discovery and the work pause was simply needed in order to allow for closer examination of soil (a "false alarm"); 2) a work pause and subsequent action for discoveries that are clearly not related to TCRs, such as can and bottle dumps, artifacts of European origin, and remnants of built environment features; and 3) a work pause and subsequent action for discoveries that are likely related to TCRs, such as midden soil, bedrock mortars, groundstone, or other similar expressions.

Whenever there is question as to whether or not the discovery represents a TCR, culturally affiliated tribes shall be consulted in making the determination. Whenever a tribal monitor is present, the monitor shall be consulted.

The following processes shall apply, depending on the nature of the find, subject to the review and approval of the City:

- **Response to False Alarms:** If the professional archaeologist determines that the find is negative for any cultural indicators, then work may resume immediately upon notice to proceed from the City's representative. No further notifications or tribal consultation is necessary because the discovery is not a TCR of any kind. The professional archaeologist shall provide written documentation of this finding to the City.
- **Response to Non-Tribal Discoveries:** If a tribal monitor is not present at the time of discovery and a professional archaeologist determines that the find represents a non-TCR from any time period or cultural affiliation, the City shall be notified immediately, to consult on a finding of eligibility and implementation of appropriate treatment measures, if the find is determined to be a Historical Resource under CEQA, as defined in CEQA *Guidelines* § 15064.5(a). The professional archaeologist shall provide a photograph of the find and a written description to the City. The City will notify the tribe(s) who, in writing, requested notice of unanticipated discovery of non-TCRs. Notice shall include the photograph and description of the find, and a tribal representative shall have the opportunity to determine whether or not the find represents a TCR. If a response is not received within 24 hours of notification (none of which time period may fall on weekends or City holidays), the City will deem this portion of the measure completed in good faith as long as the notification was made and documented. If requested by a tribe(s), the City may extend this timeframe, which shall be documented in writing (electronic communication may be used to satisfy this measure). If a notified tribe responds within 24 hours to indicate that the find represents a TCR, then the Response to Tribal Discoveries portion of this measure applies. If the tribe does not respond or concurs that the discovery is non-tribal, work shall not resume within the no-work radius until the City, through consultation as appropriate, determines that the site either: 1) is not a Historical Resource under CEQA, as defined in CEQA *Guidelines* § 15064.5(a); or 2) that the treatment measures have been completed to its satisfaction.
- **Response to Tribal Discoveries:** If the find represents a tribal or potentially TCR that does not include human remains, the tribe(s) and City shall be notified. The City will consult with the tribe(s) on a finding of eligibility and implement appropriate treatment measures, if the find is determined to be either a Historical Resource under CEQA, as defined in CEQA *Guidelines* § 15064.5(a), or a TCR, as defined in PRC § 21074. Preservation in place is the preferred treatment, if feasible. Work shall not resume within the no-work radius until the City, through consultation as appropriate, determines that the site either: 1) is not a Historical Resource under CEQA, as defined in CEQA *Guidelines* § 15064.5(a); or 2) not a TCR, as defined in PRC § 21074; or 3) that the treatment measures have been completed to its satisfaction.
- **Response to Human Remains:** If the find includes human remains, or remains that are potentially human, the construction supervisor or on-site archaeologist shall ensure reasonable protection measures are taken to protect the discovery from disturbance (AB 2641) and shall notify the City and Placer County Coroner (per § 7050.5 of the Health and Safety Code). The

provisions of § 7050.5 of the California Health and Safety Code, § 5097.98 of the California PRC, and AB 2641 shall be implemented. If the Coroner determines the remains are Native American and not the result of a crime scene, the Coroner will notify the NAHC, which then will designate a Native American Most Likely Descendant (MLD) for the project (PRC § 5097.98). The designated MLD will have 48 hours from the time access to the property is granted to make recommendations concerning treatment of the remains. PRC § 5097.94 provides structure for mediation through the NAHC if necessary. If the landowner does not agree with the recommendations of the MLD, the NAHC can mediate (PRC § 5097.94).

- If no agreement is reached, the landowner must rebury the remains in a respectful manner where they will not be further disturbed (PRC § 5097.98). This will also include either recording the site with the NAHC or the appropriate Information Center; using an open space or conservation zoning designation or easement; or recording a reinternment document with the county in which the property is located (AB 2641). Work shall not resume within the no-work radius until the City, through consultation as appropriate, determines that the treatment measures have been completed to its satisfaction.

3.20 UTILITIES/SERVICE SYSTEMS

3.20.1 ENVIRONMENTAL CHECKLIST

UTILITIES/SERVICE SYSTEMS	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
Would the project:				
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☐	☒
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	☐	☐	☐	☒
c) Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☐	☒
d) Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☐	☒
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☐	☒

3.20.2 SETTING

Regulatory Setting

California Integrated Waste Management Act

AB 939, the California Integrated Waste Management Act, mandates management of non-hazardous solid waste throughout California. The purpose of AB 939 is to reduce, recycle, and reuse solid waste generated in the State to the maximum extent feasible; improve regulation of existing solid waste landfills; ensure that new solid waste landfills are environmentally sound; streamline permitting

procedures for solid waste management facilities; and specify the responsibilities of local governments to develop and implement integrated waste management programs.

California Green Building Standards Code

CALGreen requires that at least 50% of the weight of non-hazardous job site debris generated by new construction be recycled, reused, or otherwise diverted from landfill disposal. CALGreen requires submission of plans and verifiable post-project documentation to demonstrate compliance.

City of Roseville Ordinance 4822

This Ordinance is known as the "Urban Stormwater Quality Management and Discharge Control Ordinance" and was designed to reduce pollutants in stormwater discharge and prohibits non-stormwater discharges into the stormwater system.

Environmental Setting

Electric Power, Natural Gas, and Telecommunications Facilities

The Roseville Electric Utility provides electrical services to the City, including the Project Site (Roseville Electric Utility, 2019). Overhead power lines are present on the Project Site. The Roseville Electric Utility produces a portion of the energy needed to meet the electrical demands of the City through the REP. The Roseville Electric Utility also receives power from the federal government, the Northern California Power Agency, and the open electricity market (Roseville Area Chamber of Commerce, n.d.). At the time the WRSP EIR was drafted, it was proposed that the electrical demands of the WRSP area would be met by either the Roseville Electric Utility or PG&E. The REP was proposed at the time and was not considered as an electricity source for the Roseville Electric Utility in the WRSP EIR.

PG&E provides natural gas in the vicinity of the Project Site. Based on mapping of PG&E natural gas lines, there is an existing PG&E natural gas line running along the eastern boundary of the Project Site that connects to the Pleasant Grove WWTP and the REP (PG&E, 2022). A PG&E easement is located along the eastern border of the Project Site. The WRSP EIR identified PG&E as the anticipated natural gas provider for the WRSP area.

Various private telecommunications providers provide telecommunication services to the City and the WRSP area.

Water Supply

According to the City of Roseville's 2021 water quality report, potable water in the City is provided via surface water sources such as Folsom Lake, and via groundwater (City, 2021). A portion of the potable water supply is provided by the Placer County Water Agency. Additionally, the City maintains a recycled water program that provides recycled water to areas like parks and golf courses for water uses such as landscaping irrigation (City, 2022c). As discussed in **Section 2.3.3**, existing municipal water lines exist in the vicinity of the Project Site along Westbrook Blvd. in a north-south direction (24 inch), along Durango Way (6 inch), and Brookstone Drive at two locations north (6 inch) and south (8 inch) of Durango Way in

an east-west direction. The WRSP EIR considered both surface and groundwater supplies to service the WRSP area.

Wastewater Collection and Treatment

Wastewater treatment in the City is largely provided by the Pleasant Grove WWTP and the Dry Creek Wastewater Treatment Plant. According to Table 4.11-12 of the WRSP EIR, the WRSP is expected to produce 2,828,665 gallons per day of wastewater for treatment at the Pleasant Grove WWTP The Pleasant Grove WWTP is located adjacent to the Project Site, west of Phillip Road and south of Blue Oaks Blvd. In 2019, the Pleasant Grove WWTP received approval to expand its capacity, following which it will have a 10.8 million gallon per day capacity (City, 2022d).

Solid Waste Collection and Disposal

Solid waste services to the Project Site would be provided the City. Collected solid waste would be delivered to the Western Placer Waste Management Authority facility located on Fiddyment Road. The Western Placer Waste Management Authority owns a Material Recovery Facility (MRF) which receives, separates, processes, and markets recyclable materials removed from the waste stream. Residual waste is transferred to the Western Placer Waste Management Authority's Western Regional Sanitary Landfill located on the same site.

Drainage

A Drainage and Utility Plan is included as Sheet L5.1 of **Attachment B**. Stormwater runoff volumes were modeled within Section 4.12 of the WRSP EIR. A stormwater drainage system is maintained by the City, and there is a gutter with storm drains present along Westbrook Blvd. adjacent to the Project Site.

3.20.3 DISCUSSION OF IMPACTS

Question A

Would the project: Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

No New Impact.

Water Supply

As discussed above, the Proposed Project would tie into the existing municipal utilities. The Proposed Project is within the scope of the size of the Regional Sports Park originally anticipated by the WRSP EIR and would not require water in addition to what was evaluated in the WRSP EIR. Movement of the Proposed Project from the location identified in the WRSP EIR to the Project Site would not require additional expansion, relocation, or new construction of water supply facilities as municipal connections are already available adjacent to the Project Site. The WRSP EIR evaluated the expansion and new construction of water delivery systems and available water needed to ensure the WRSP area was adequately supplied with water. The WRSP EIR determined that impacts resulting from expansion and

new construction of water delivery systems were less than significant and that no mitigation would be required. No relocation of facilities was anticipated. The Proposed Project would not require the expansion, relocation, or new construction of water supply facilities beyond those already anticipated in the WRSP EIR. Therefore, no new impact would occur.

Wastewater Treatment

The Proposed Project would include public restrooms, which would require wastewater treatment. The size of the Proposed Project is within the scope of the Regional Sports Park originally analyzed in the WRSP; therefore, the number of restrooms necessary to support the Proposed Project would not exceed what would have been necessary for the project anticipated in the WRSP EIR, and sewer connections are available without expanding, constructing, or relocating infrastructure. The Pleasant Grove WWTP, which is adjacent to the Project Site, would service the Proposed Project, consistent with the analysis in the WRSP EIR. As discussed above, a WWTP expansion was approved in 2019 and would further expand the capacity of the Pleasant Grove WWTP. The WRSP EIR determined that impacts resulting from expansion and new construction of wastewater treatment systems could pose a significant environmental impact. No relocation of facilities was anticipated. Mitigation was included in the WRSP EIR (MM 4.11-5) to reduce these impacts to a less-than-significant level. The Proposed Project would not require the expansion, relocation, or new construction of wastewater facilities beyond those already anticipated in the WRSP EIR. Therefore, there would be no new impact.

Stormwater Drainage

A Drainage and Utility Plan is included as Sheet L5.1 of **Attachment B**. The Proposed Project is within the size of the Regional Sports Park originally anticipated in the WRSP EIR and would not result in an increase in stormwater runoff when compared to the Regional Sports Park originally identified in the WRSP. Movement of the Complex to the Project Site would also not impact the analysis presented in the WRSP EIR as the storm drain system is interconnected and drains to the same system. The WRSP EIR determined that impacts resulting from expansion and new construction of storm drainage systems could pose a significant environmental impact. No relocation of facilities was anticipated. Mitigation was included in the WRSP EIR (MM 4.12-2 Pay fair-share of Roseville regional stormwater retention facility improvements) to reduce these impacts to a less-than-significant level. The Proposed Project would not require the expansion, relocation, or new construction of stormwater drainage facilities beyond those already anticipated in the WRSP EIR. Therefore, there would be no new impact.

Electric, Natural Gas, and Telecommunications

As discussed above, the Project Site would be serviced by the Roseville Electric Utility. This is consistent with the anticipated electrical source identified in the WRSP EIR. The WRSP EIR determined that existing electrical facilities were sufficient to support growth identified under the WRSP area and that no mitigation as it relates to electrical facilities was required. The size of the Proposed Project and electrical demand have not significantly changed since the WRSP EIR. Additionally, the Proposed Project would return energy to the grid through the installation of solar panels, which was not specifically considered in the WRSP EIR. Additionally, since the WRSP EIR, the REP has been constructed and is operational. This source of electricity was proposed at the time of the WRSP EIR and was not considered as an energy supply source at the time. Therefore, electrical facilities would not need to be expanded to support the

Proposed Project beyond those identified in the WRSP EIR. Existing overhead electrical lines span the Project Site. The East/West trending overhead lines would be relocated underground. The North/South trending overhead lines would remain as is.

The Proposed Project would not require use of natural gas and would not require relocation of existing facilities. Therefore, the Proposed Project would not result in new, expanded, or relocation of natural gas facilities. Similarly, the Proposed Project does not require installation or relocation of telecommunications facilities. No new impacts would occur compared to the WRSP EIR.

Question B

Would the project: Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

No New Impact. Construction of the Proposed Project would require the use of water supplies for activities such as washing aggregates, dust suppression, and washing surfaces. However, these uses would be limited during the construction phase and quantities and, since the Proposed Project has not increased in size from what was proposed in the WRSP EIR, would not exceed water demands previously considered. Water supply services for operation of the Proposed Project would be required for restrooms, water fountains, and misting devices. Since the WRSP EIR, it has been determined that artificial turf will be used for the fields, further reducing water demand. Recycled water would be utilized for landscaping. The annual water demand for the Proposed Project is anticipated to be approximately 48,360,457 gallons per year.

The WRSP EIR determined that existing water supply would be sufficient in wet years, but that reduced groundwater pumping would be necessary during multiple dry years to avoid a significant impact to groundwater levels. Mitigation was included in the WRSP EIR (MM 4.11-2) to prevent significant impacts related to water supply in multiple dry years. The changes to the Proposed Project since the WRSP EIR would not result in an increased water supply demand compared to the Regional Sports Park originally evaluated in the WRSP EIR. Additionally, since the analysis presented in the WRSP EIR, the City has expanded recycled water infrastructure and delivery to reduce demands on potable water supplies compared to WRSP EIR recycled water amounts (City, 2022d). Correspondence with the City's Environmental Utilities – Engineering department has confirmed that adequate water supplies exist to serve the Proposed Project demands (Hanson, 2022). No new impacts would occur compared to the WRSP EIR.

Question C

Would the project: Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

No New Impact. Wastewater services for the Proposed Project would be provided by the City and would be required to serve the four proposed restrooms. Wastewater would be processed at the Pleasant Grove WWTP, which is located directly to the east of the Project Site. The annual wastewater demand

for the Proposed Project is anticipated to be no more than the estimated water demand for the Proposed Project: 48,360,457 gallons per year. The changes to the Proposed Project since the WRSP EIR would not result in an increased wastewater treatment demand. Additionally, since the analysis presented in the FEIR, the capacity of the Pleasant Grove WWTP has been expanded. Correspondence with the City's Environmental Utilities – Engineering department has confirmed that existing wastewater facilities have capacity to serve the Proposed Project (Hanson, 2022). No new impacts would occur compared to the WRSP EIR.

Question D

Would the project: Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

No New Impact. As discussed within the WRSP EIR, impacts to solid waste services would be significant and unavoidable. Construction demand for solid waste during build out of the WRSP area was determined to require expansion of the MRF and landfill capacity. However, at the time the WRSP EIR was drafted, it was unknown if these expansions would occur, and the impact was deemed significant and unavoidable, even with the inclusion of mitigation (MM 4.11-7, MM 4.11-8, MM 4.11-10, and MM 4.11-11). Currently, the Western Placer Waste Action Plan Draft EIR is under review and would increase capacity and recycling/diversion, amongst other actions (WPWMA, 2021). The Proposed Project is within the size of the Regional Sports Park originally analyzed within the WRSP EIR and would not produce construction or operational waste in excess of levels projected in the WRSP EIR. No new impacts would occur when compared to the WRSP EIR.

Question E

Would the project: Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

No New Impact. The Proposed Project would comply with applicable federal, State, and local solid waste statutes and regulations. Specifically, the Proposed Project would be required to comply with the laws and regulations designed to divert waste from landfills, including, but not limited to, AB 939 and CALGreen. As the Proposed Project would comply with applicable regulations, no new impact would occur when compared to the WRSP EIR.

Cumulative Impacts

No New Impact*.* Utilities would not need to be constructed, expanded, or relocated beyond those impacts already identified in the WRSP EIR. Utilities available to the Project Site are sufficient to serve the Proposed Project and would not exceed the demand previously evaluated in the WRSP EIR. The WRSP EIR provided mitigation for impacts to utilities and the Proposed Project would not increase impacts identified in the WRSP EIR. Therefore, there would be no new cumulative impacts.

3.20.4 MITIGATION MEASURES

The Proposed Project would not result in any new potentially significant impact related to utilities/service systems not already analyzed in the WRSP EIR. Therefore, no new mitigation measures would be necessary.

3.21 Wildfire

3.21.1 ENVIRONMENTAL CHECKLIST

WILDFIRE	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No New Impact
If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☐	☒
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☐	☒
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☐	☒

3.21.2 SETTING

Regulatory Context

State Responsibility Areas

State Responsibility Areas (SRA) are lands in California where the California Department of Forestry and Fire Protection (CAL FIRE) has legal and financial responsibility for wildfire protection and where CAL FIRE administers fire hazard classifications and building standard regulations. Local Responsibility Areas (LRA) include land in cities, cultivated agricultural lands, unincorporated non-flammable areas, and lands that do not meet the criteria for SRA of Federal Responsible Areas (State of California, 2022a). California

PRC§§ 4201 through 4204 and California Government Code 51175-89 direct CAL FIRE to map fire hazard zones within state SRAs and LRAs, respectively, based on relevant factors such as fuels, terrain, and weather. These zones, referred to as fire hazard severity zones (FHSZ), are based on the physical conditions that give a likelihood that an area will burn over a 30 to 50-year period without considering modifications such as fuel reduction efforts. The zones also relate to the requirements for building codes designed to reduce the ignition potential to buildings in the wildland-urban interface zones.

Multi Hazard Mitigation Plan

The Disaster Mitigation Act is federal legislation that encourage proactive pre-disaster planning. Accordingly, the City has developed and maintained a Multi Hazard Mitigation Plan in an effort to reduce future loss of life and property resulting from disasters. Wildfire was one of several potential hazards identified in the Multi Hazard Mitigation Plan. Wildfire risk is assessed in the Plan, as well as fire prevention programs and standards (City, 2016).

Environmental Setting

At the time the WRSP EIR was written, wildfire analysis was not an impact under CEQA; therefore, wildfire impacts related to the WRSP were not analyzed. According to the City's Multi Hazard Mitigation Plan (City, 2016), the City does not include any designated wildland-urban interface areas. A significant portion of the area around the City is developed. State maps show that the City has a moderate fire threat. While the City rarely has critical fire weather conditions, a combination of dry grasslands, the topography in northeast Roseville, and hot temperatures with limited rainfall could result in a risk of wildfire on occasion. The most likely wildfire hazards in the City include grassland fires on undeveloped properties in the WRSP Area or west or north of Roseville, fires in northeast Roseville where significant slopes are adjacent to ravines and residential development, and fires in open space and preserve areas within the developed sections of Roseville. The Project Site is located within a relatively flat and currently undeveloped area within City limits. The Project Site is surrounded by residential development to the immediate west and the Pleasant Grove WWTP to the immediate east.

The Proposed Project is not located in a SRA, but is rather located in a LRA (State of California, 2022b). The Project Site is not located within a designated FHSZ. The closest land designated as a moderate/high FHSZ, is in the rural area east of Rocklin approximately 10 miles east of the Project Site.

3.21.3 DISCUSSION OF IMPACTS

Question A

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project: Substantially impair an adopted emergency response plan or emergency evacuation plan?

No New Impact. The Proposed Project is not located in a SRA or a very high FHSZ. Construction of the Proposed Project would occur within the Project Site boundaries and would not result in lane closures and thus would not affect emergency access or evacuation. Therefore, the Proposed Project would not

interfere with an adopted emergency response plan or emergency evacuation plan in place through the State, County, or City. No new impact would occur.

Question B

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project: Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

No New Impact. As mentioned above, the Proposed Project is not located in an SRA or a very high FHSZ. The Proposed Project does not involve unique slopes or other factors that would exacerbate wildfire risks. Therefore, wildfire risk would not be exacerbated and the potential to expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of wildfire is less than significant. No new impact would occur.

Question C

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project: Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

No New Impact. As mentioned above, the Proposed Project is not located in an SRA or a very high FHSZ. The Proposed Project would be constructed and located within the Project Site boundary. Overhead and underground utility lines exist in the vicinity of the Project Site. It is not anticipated that new electrical distribution lines, whether overhead or underground, would be necessary to serve the Proposed Project. Impacts would be less than significant. No new impact would occur.

Question D

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project: Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

No New Impact. As mentioned above, the Proposed Project is not located in an SRA or a very high FHSZ. As described in **Section 3.8**, the Proposed Project is not located on an unstable geologic unit or soil and does not have a high risk of landslides or liquefaction. The Project Site is relatively flat and grading associated with the Proposed Project would not alter drainage patterns. Therefore, the Proposed Project would not expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes. No new impact would occur.

Cumulative Impacts

No New Impact. Operation of the Proposed Project and cumulative projects could result in a cumulative impact if these projects exacerbated wildfire risk. The Project Site and surrounding area is within City limits and not within a FHSZ. Furthermore, the City does not include any designated wildland-urban interface areas, which reduces the potential for uncontrolled wildfire. Therefore, the Proposed Project would not contribute to cumulative impacts related to wildfire and no new impact would occur compared to the WRSP EIR.

3.21.4 MITIGATION MEASURES

The Proposed Project would not result in any new potentially significant impact regarding wildfire not already analyzed in the WRSP EIR. Therefore, no new mitigation measures would be necessary.

3.22 MANDATORY FINDING OF SIGNIFICANCE

MANDATORY FINDINGS OF SIGNIFICANCE	New Significant Impact	Substantially More Severe Significant Impact	Less-Than-Significant Impact with Additional Mitigation	No Impact
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☐	☒	☐
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)	☐	☐	☒	☐
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☐	☒	☐

Question A

Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

Less than Significant Impact with Additional Mitigation*.* As discussed in the previous sections, the Proposed Project could potentially have new significant environmental effects with respect to Air Quality, Biological Resources, Hazards and Hazardous Materials, Recreation, Transportation, and Tribal Cultural Resources. However, the impacts of the Proposed Project would be reduced to a less-than-significant level with the implementation of the mitigation measures identified in this IS.

Question B

Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)

Less than Significant Impact with Additional Mitigation. Cumulative impacts for each resource area have been considered within the analysis of each resource area. When appropriate, mitigation measures have been provided to reduce all potential impacts to a less-than-significant level.

Question C

Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Less than Significant Impact with Additional Mitigation. The potential direct environmental effects of the Proposed Project have been considered within the discussion of each environmental resource area in the previous sections. When appropriate, mitigation measures have been provided to reduce all potential impacts to a less-than-significant level.

4 LIST OF PREPARERS

CITY OF ROSEVILLE – LEAD AGENCY

Tara Gee, Park Planning & Development Superintendent
Terri Shirhall, Environmental Coordinator

MONTROSE ENVIRONMENTAL SOLUTIONS – CONSULTANT

Project Manager:	Kelly Boyle
Technical Staff:	Kathleen Sholty
	Kelli Raymond
	Jedidiah Dowell
	Jennifer Stucker
	Marcus Barrango
	Charlane Gross, RPA

SAXELBY ACOUSTICS – NOISE CONSULTANT

Luke Saxelby, Principal Consultant

FEHR & PEERS – TRAFFIC ENGINEER

John Gard, P.E., ESP, Principal
Greg Behrens, AICP - Associate, Sierra Region Office Leader

MUSCO SPORTS LIGHTING – LIGHT ENGINEER

Bob Crookham, Sales Representative

5 REFERENCES

Bagera, Robert, 2022. Phone correspondence with the City and Robert Baqera of Roseville Police Department on June 20, 2022.

California Air Resources Board (CARB), 2007. *Expanded List of Early Action Measures to Reduce Greenhouse Gas Emissions in California Recommended for Board Consideration*. Available online at: http://www.arb.ca.gov/cc/ccea/meetings/ea_final_report.pdf. Accessed June 2022.

CARB, 2016. *Ambient Air Quality Standards.* Available online at: https://ww3.arb.ca.gov/research/aaqs/aaqs2.pdf. Accessed June 2021.

CARB, 2017. Climate Change Scoping Plan Update, 2017. Available online at: https://ww3.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf. Accessed June 2022.

California Department of Forestry and Fire Protection (CAL FIRE), 2022. Fire and Resource Assessment Program Viewer. Available online at: https://egis.fire.ca.gov/FHSZ/. Accessed April 13, 2022.

California Department of Transportation (Caltrans), 2010a. Smart Mobility 2010: A Call to Action for the New Decade. Available: https://dot.ca.gov/programs/transportation-planning/office-of-smart-mobility-climate-change/smart-mobility-active-transportation/smart-mobility-framework. Accessed June 2022.

Caltrans, 2010b. Complete Streets Implementation Action Plan. Implementation of Deputy Directive 64-R1: Complete Streets – Integrating the Transportation System. Available: https://www.ca-ilg.org/sites/main/files/file-attachments/completestreets_ip03-10-10.pdf?1443564712. Accessed June 2022.

Caltrans, 2013a. California Department of Transportation, Technical Noise Supplement to the Traffic Noise Analysis Protocol, p. 2-20. Available online at: chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/viewer.html?pdfurl=https%3A%2F%2Fdot.ca.gov%2F-%2Fmedia%2Fdot-media%2Fprograms%2Fenvironmental-analysis%2Fdocuments%2Fenv%2Ftens-sep2013-a11y.pdf&clen=10864324&chunk=true&pdffilename=tens-sep2013-a11y.pdf. Accessed April 14, 2022.

Caltrans, 2013b. California Department of Transportation, Transportation and Construction Vibration Guidance Manual, p.37. Available online at: https://www.cityofdavis.org/home/showdocument?id=4521. Accessed October 2020.

Caltrans, 2016. California's Transportation Plan 2040. Sacramento, CA. Available: https://dot.ca.gov/-/media/dot-media/programs/transportation-planning/documents/f0004899_ctp2040_a11y.pdf. Accessed June 2022.

Caltrans, 2019a. Strategic Management Plan 2015-2020 – 2019 Update. Available: https://dot.ca.gov/-/media/dot-media/programs/risk-strategic-management/documents/2019-csm-plan-update-a11y.pdf.

Caltrans, 2019b. California State Scenic Highway System Map. Available online at: https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aacaa. Accessed May 4, 2022.

Caltrans, 2020a. VMT-Focused Transportation Impact Study Guide. Adopted May 20, 2020.

Caltrans, 2020b. Interim Land Development and Intergovernmental Review Safety Review Practitioners Guidance.

California Department of Water Resources (CDWR), 2019. Groundwater Basin Boundary Assessment Tool. Available online at: https://gis.water.ca.gov/app/bbat/. Accessed May 3, 2022.

City of Roseville (City), 2016. 2016 Multi-Hazard Mitigation Plan. September 2016. Prepared by Tetra Tech. Available online at: https://www.roseville.ca.us/government/departments/fire_department/emergency_preparedness/multi_hazard_mitigation_plan. Accessed June 2022.

City, 2018. City of Roseville GIS Data Portal. Stormwater Watershed. Available online at: https://data-roseville.opendata.arcgis.com/datasets/d5e2bfb91bf942b18f0c041e8239b7d4_29/explore?location=38.781143%2C-121.365143%2C15.25. Accessed May 27, 2022.

City, 2020a. City of Roseville General Plan 2035. August 2020. Chapter 6 – Parks and recreation. Available online at: https://www.roseville.ca.us/government/departments/development_services/planning/general_plan_development_guidelines. Accessed May 2, 2022.

City, 2020b. City of Roseville Design and Construction Standards. Effective January 2020. Available online at: https://www.roseville.ca.us/government/departments/development_services/engineering_land_development/construction_management_inspection/design_construction_standards. Accessed May 4, 2022.

City, 2021. Environmental Utilities 2021 Water Quality Report. Available online at: https://cdn5-hosted.civiclive.com/UserFiles/Servers/Server_7964838/File/Government/Departments/Environmental%20Utilities/At%20your%20service/Water%20supply/Water%20quality%20reports/EU_WaterQualityReport_2022.pdf. Accessed June 2022.

City, 2022b. Fire Station Locations. Available online at: https://www.roseville.ca.us/government/departments/fire_department/fire_station_locations. Accessed May 26, 2022.

City, 2022c. Recycled Water Program Overview. Available online at: https://www.roseville.ca.us/government/departments/environmental_utilities/at_your_service/recycled_water/program_overview. Accessed June 2022.

City, 2022d. Pleasant Grove Wastewater Expansion. Available online at: https://www.roseville.ca.us/government/departments/environmental_utilities/utility_infrastructure_and_projects/capital_improvements___rehabilitation_projects/pleasant_grove_wastewater_expansion. Accessed June 2022.

Department of Conservation (DOC), 2002. Department of Conservation, California Geological Survey, Note 36: California Geomorphic Provinces. Available online at:

https://www.conservation.ca.gov/cgs/Documents/Publications/CGS-Notes/CGS-Note-36.pdf. Accessed April 12, 2022.

DOC, 2015a. Department of Conservation, Geologic Map of California. Available Online at: https://maps.conservation.ca.gov/cgs/gmc/. Accessed April 12, 2022.

DOC, 2015b. Department of Conservation, Landslide Inventory. Available online at: https://maps.conservation.ca.gov/cgs/lsi/. Accessed April 12, 2022.

DOC, 2015c. Department of Conservation, Fault Activity Map of California. Available online at: https://maps.conservation.ca.gov/cgs/fam/. Accessed April 13, 2022.

DOC, 2017. Department of Conservation, State of California Williamson Act Contract Land Map. Available online at: chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/viewer.html?pdfurl=https%3A%2F%2Fplanning.lacity.org%2Feir%2FHollywoodCenter%2FDeir%2FELDP%2F(E)%2520Initial%2520Study%2FInitial%2520Study%2FAttachment%2520B%2520References%2FCalifornia%2520Department%2520of%2520Conservation%2520Williamson%2520Map%25202016.pdf&clen=12747518&chunk=true. Accessed April 13, 2022.

DOC, 2018. Department of Conservation, California Important Farmland Finder. Available online at: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed April 7, 2022.

DOC, 2019. State Mining and Geology Board Guidelines. Guidelines for Classification and Designation of Mineral Lands. Available online at: https://www.conservation.ca.gov/smgb/Guidelines. Accessed May 3, 2022.

DOC, 2021a. Department of Conservation, Alquist Priolo Fault Zones Map. Available online at: https://maps.conservation.ca.gov/cgs/EQZApp/app/. Accessed April 13, 2022.

DOC, 2021b. Solano County Tsunami Inundation. Available online at: https://www.conservation.ca.gov/cgs/tsunami/maps/solano. Accessed May 3, 2022.

Department of Toxic Substances Control (DTSC), 2022. Department of Toxic Substance Control, EnviroStor, Hazardous Site Map. Available online at: https://www.envirostor.dtsc.ca.gov/public/map/?myaddress=2500+Westbrook+Blvd. Accessed April 13, 2022.

Fairfax County Park Authority, 2019. Athletic Field Lighting Systems. Performance Outline Specifications. Available online at: https://www.fairfaxcounty.gov/parks/sites/parks/files/assets/documents/plandev/athletic_field_lighting_pos.pdf. Accessed June 6, 2022.

Federal Emergency Management Agency (FEMA, 2021). FEMA Flood Map Service Center. Available online at: https://msc.fema.gov/portal/search?AddressQuery=vacaville#searchresultsanchor. Accessed May 3, 2022.

GeoTracker, 2022. State Water Resources Control Board GeoTracker. Available online at: https://geotracker.waterboards.ca.gov/. Accessed June 2022.

Hanson, 2022. Email correspondence between Terri Shirhall (City of Roseville Environmental Coordinator) and George Hanson (City of Roseville Principal Engineer). May 17, 2022.

Hoover, Mildred Brooke, Hero Eugene Rensch, Ethel Grace Rensch, and William N. Abeloe, 2002. Historic Spots in California, Fifth Edition. Revised by Douglas E. Kyle. Stanford University Press, Stanford.

Institution of Lighting Professionals (ILP), 2011. Guidance Notes for the Reduction of Obtrusive Light. Available online at: https://www.york.gov.uk/downloads/file/1808/guidance-notes-for-the-reduction-of-obtrusive-light. Accessed June 6, 2022.

Intergovernmental Panel on Climate Change (IPCC), 2014. IPCC Fifth Assessment Report, 2013. Synthesis Report Summary for Policymakers. Available online at: https://www.ipcc.ch/site/assets/uploads/2018/02/AR5_SYR_FINAL_SPM.pdf. Accessed June 2022.

Levy, Richard, 1978. Eastern Miwok. In *Handbook of North American Indians*, Volume 8, pp. 398-413. W.C. Sturtevant, general editor. Smithsonian Institute, Washington, D.C.

Natural Resources Conservation Service (NRCS), 2022. Custom Soil Resource Report. Accessed May 2022.

PAR Environmental Services, 2001. *Cultural Resources investigation of the Westpark/Fiddyment Ranch and Liveoak Enterprises/Signature Property Development Project, Placer County, California*. Report prepared for Signature Properties.

PG&E, 2022. Explore our natural gas transmission pipeline map. Available online at: https://www.pge.com/en_US/safety/how-the-system-works/natural-gas-system-overview/gas-transmission-pipeline/gas-transmission-pipelines.page. Accessed June 2022.

PCAPCD, 2021. Placer County Air Pollution Control District Policy – Review of Land Use Projects Under CEQA. August 2021. Available online at: https://www.placerair.org/DocumentCenter/View/55349/Final-CEQA-Review-Policy-Amendment_8-12-2021?bidId=. Accessed June 2022.

Roseville Area Chamber of Commerce, n.d. Utilities. Available online at: https://rosevillechamber.com/living-here/relocation-info/utilities/. Accessed June 2022.

Roseville Electric Utility, 2019. Generating a Path to the Future 2019 Annual Report. Available online at: https://cdn5-hosted.civiclive.com/UserFiles/Servers/Server_7964838/File/Government/Departments/Roseville%20Electric%20Utility/Annual%20Report/Electric_AnnualReport_2019_WEB.pdf. Accessed June 2022.

State of California, 2022a. Board of Forestry and Fire Protection. Available online at: https://bof.fire.ca.gov/projects-and-programs/state-responsibility-area-viewer/. Accessed March 2, 2022.

State of California, 2022b. Office of the State Fire Marshall. Fire Hazard Severity Zones Maps. Available online at: https://osfm.fire.ca.gov/divisions/community-wildfire-preparedness-and-mitigation/wildland-hazards-building-codes/fire-hazard-severity-zones-maps/. Accessed March 2, 2022.

U.S. Census Bureau (UC Census), 2021. QuickFacts: Roseville, California. Available online at: https://www.census.gov/quickfacts/fact/table/US/PST045221. Accessed May 26, 2022.

U.S. Geological Survey (USGS), 2018. U.S. Geological Survey, Long-Term National Seismic Hazard Map. Available online at: https://www.usgs.gov/media/images/2018-long-term-national-seismic-hazard-map. Accessed October 12, 2020.

USGS, 2020. Mineral Resources Data System. Available online at: https://mrdata.usgs.gov/general/map-us.html. Accessed May 3, 2022.

U.S. Environmental Protection Agency (USEPA), 2007. Proposed Early Actions to Mitigation Climate change in California. April 20, 2007. Produced by the California Environmental Protection Agency and the Air Resources Board.

West Placer Waste Management Authority (WPWMA), 2021. Waste Action Plan Draft Environmental Impact Report. Available online at: https://renewableplacer.com/eir/. Accessed June 2022.

Wilson, Norman L., and Arlean H. Towne, 1978. Nisenan. In *Handbook of North American Indians* Volume 8, pp. 387-397. W.C. Sturtevant, general editor. Smithsonian Institute, Washington, D.C.

ATTACHMENT A

CONCEPT PLANS



LEGEND

1. FIELDS:
   70 YARDS x 120 YARDS (SEE ENLARGEMENT)
   20' SPECTATOR SIDE BUFFER
   22.5' PLAYER SIDE BUFFER
   15' ENDS OF FIELD BUFFER
2. NORTH PARKING LOT 594 PARKING STALLS
3. RESTROOMS AT PLAZA
4. CONCESSIONS BUILDING
5. PICNIC SHADE STRUCTURES (20' X50')
6. TEMPORARY NETTING
7. ALL ACCESSIBLE PLAY AREA (1 ACRE)
8. PARK STORAGE/MAINTENANCE EQUIPMENT
9. EXISTING OVERHEAD POWER LINE TO BE REMOVED AND RELOCATED
10. FUTURE PHASE 1 SOLAR SHADE STRUCTURES - NORTH PARKING LOT (77,760 SQ. FT.)
    135' X 40' = 30 PARKING STALLS (10 TOTAL)
    108' X 40' = 24 PARKING STALLS (3 TOTAL)
    90' X 40' = 20 PARKING STALLS (3 TOTAL)
11. BIOREMEDIATION = 25,926 SQUARE FEET
12. U10 & U12 COMBINED - YOUTH SOCCER STRIPING (45 YDS X 65 YDS)
13. RESTROOM AT PLAYGROUND
14. PLAYGROUND SHADE STRUCTURE (1-21'X' 38')
15. EXISTING PUBLIC BUS STOP
16. PIPE GATE
17. BUS DROP OFF
18. FOOD TRUCK PARKING
19. 16' TALL CHAIN LINK FENCE
20. 6' TALL CHAIN LINK FENCE AROUND MAINTENANCE YARD
21. 42" TALL CHAIN LINK FENCE
22. 8' TALL OMEGA II FENCE WITH 22' NETTING
23. 10'X10' POP-UP TENT WITH SCORER'S TABLE
24. SPORTS LIGHTING
25. SHADE STRUCTURES - PROMENADE
26. SOCCER GOAL
27. PLAYER'S AREA
28. WARM-UP AREA
29. PARK ENTRY SIGN ON FENCE
30. PEDESTRIAN CROSSING
31. SOUTH PARKING LOT 361 PARKING STALLS
32. FUTURE PHASE 2 SOLAR SHADE STRUCTURES - SOUTH PARKING LOT (51,120 SQ. FT.)
    144' X 40' = 32 PARKING STALLS (3 TOTAL)
    135' X 40' = 24 PARKING STALLS (2 TOTAL)
    72' X 40' = 18 PARKING STALLS (8 TOTAL)

ADD ALTERNATE 1:

FIELDS 2 & 9
4 CANTILEVER SHADE STRUCTURES AT FIELDS
SOUTH PLAZA AREA
186 PARKING STALLS- SOUTH

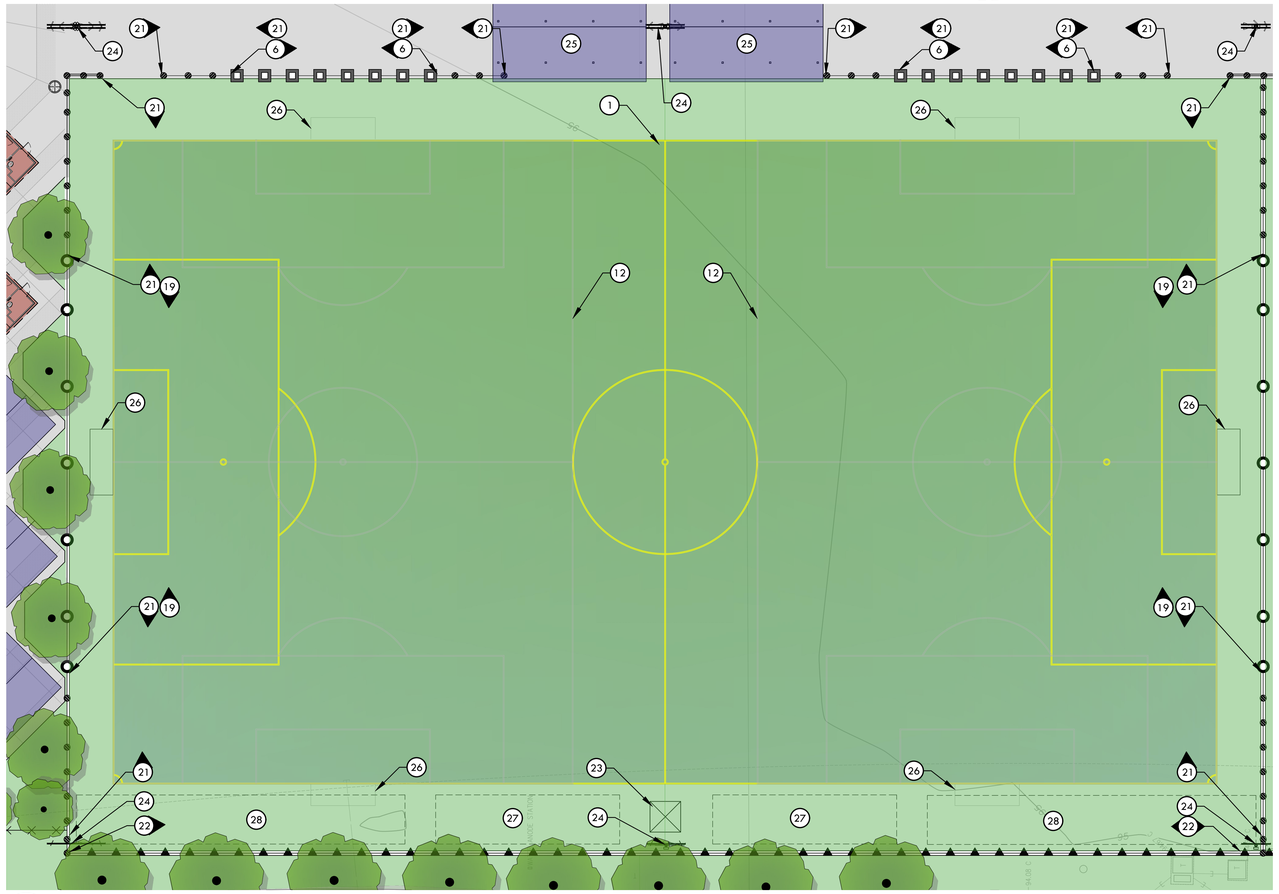
FUTURE PHASE:

FIELDS 1 &10
4 CANTILEVER SHADE STRUCTURES AT FIELDS
MAINTENANCE ROAD/PERIMETER WALKWAY
175 PARKING STALLS - SOUTH

NORTH

0' 50' 100' 200' 300'

JUNE 27, 2022



A FIELD ENLARGEMENT
PLAN VIEW
1"-20'

CITY OF ROSEVILLE CALIFORNIA

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City of Roseville Soccer Complex
MASTER PLAN - CONCEPT
City of Roseville
Westbrook Boulevard

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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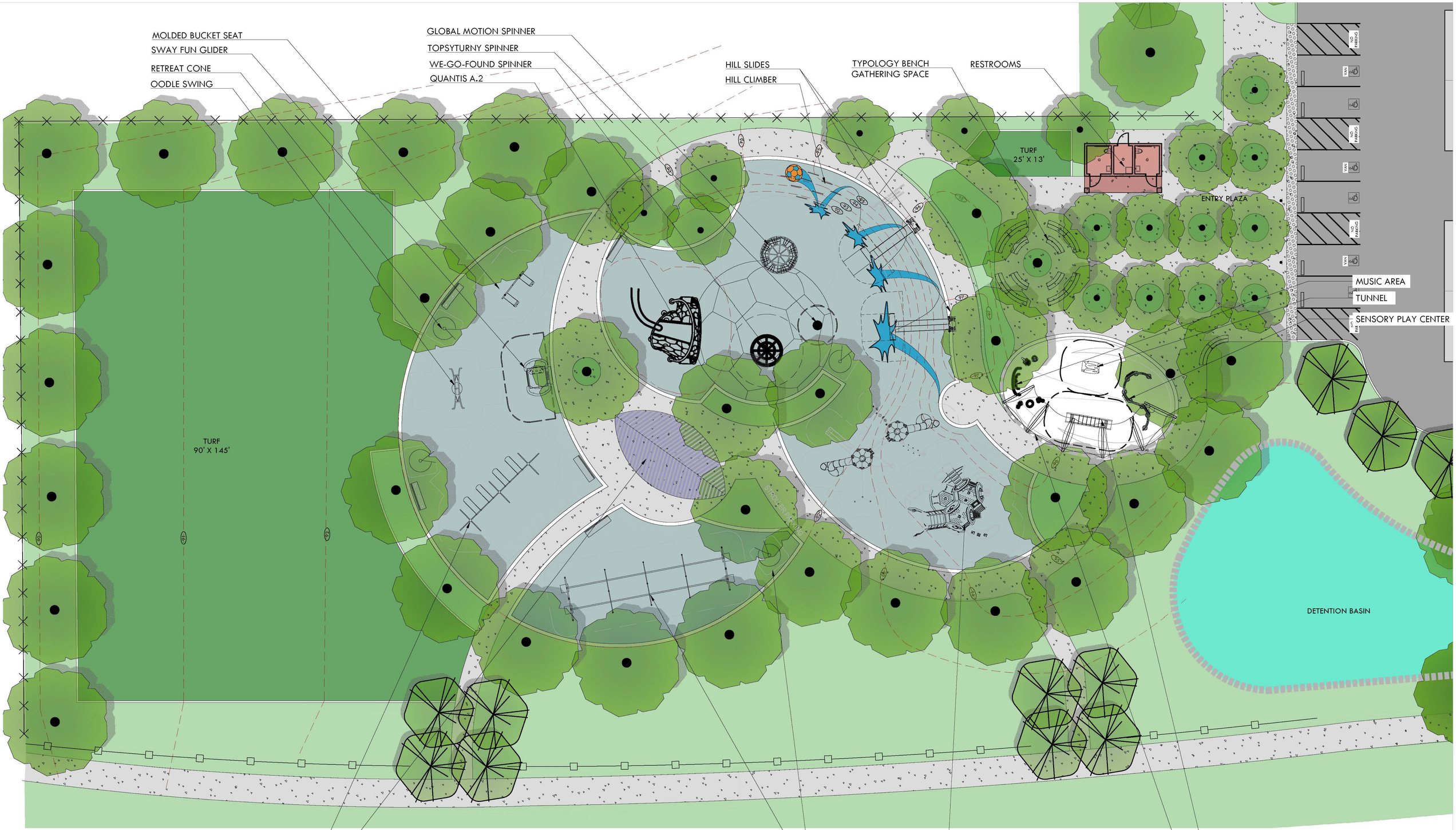
tel: 408.985.7200
fax: 408.985.7260
www.verdedesigninc.com

ATTACHMENT C

VISUAL SIMULATIONS AND GRAPHICS



APRIL 18, 2022

CITY OF ROSEVILLE CALIFORNIA

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City of Roseville Soccer Complex

INCLUSIVE PLAYGROUND CONCEPT 2 RENDERING

City of Roseville

Westbrook Boulevard

VERDE DESIGN

LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN

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RHAPSODY GRANDIOSO CHIMES



RHAPSODY KETTLE DRUM GROUP



RHAPSODY CASCATA BELLS



ROLLER TABLE



SENSORY PLAY CENTER



TODDLER SWINGS (2-5 YEARS)



OODLE SWING (5-12 YERAS)



5000 SERIES SWINGS (5-12 YEARS)



SWAY FUN GLIDER



ZIPKROOZ (5-12)



QUANTIS A.2 (5-12 YERAS)



GLOBAL MOTION (5-12 YERAS)



TOPSYTURNY SPINNER (5-12 YERAS)



WE-GO-ROUND SPINNER (5-12 YERAS)



STRUCTURE ON HILLSIDE (5-12 YEARS)



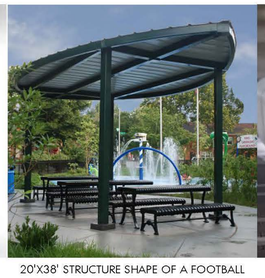
RETREAT CONE



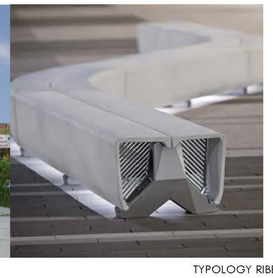
HILL SLIDES



SHADE SAIL STRUCTURE



20'X38' STRUCTURE SHAPE OF A FOOTBALL



TYPOLOGY RIBBON BENCH

APRIL 18, 2022

CITY OF ROSEVILLE CALIFORNIA

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City of Roseville Soccer Complex

INCLUSIVE PLAYGROUND CONCEPT 2 - IMAGERY BOARD

City of Roseville

Westbrook Boulevard

VERDE DESIGN

LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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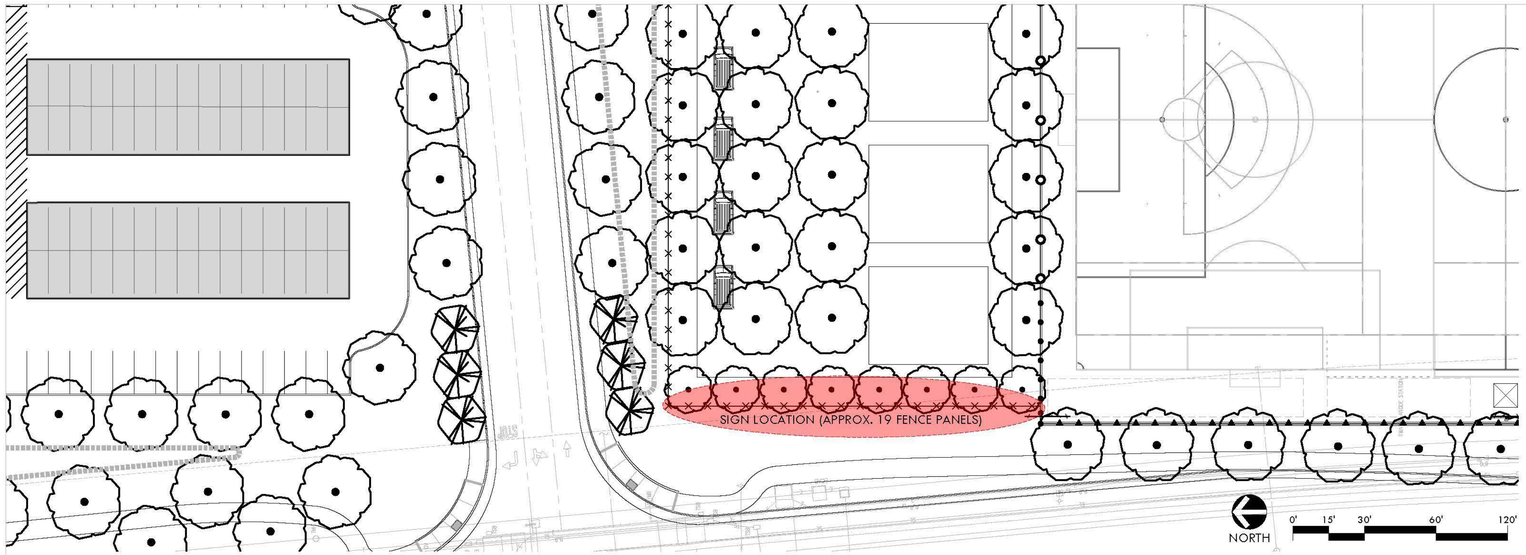
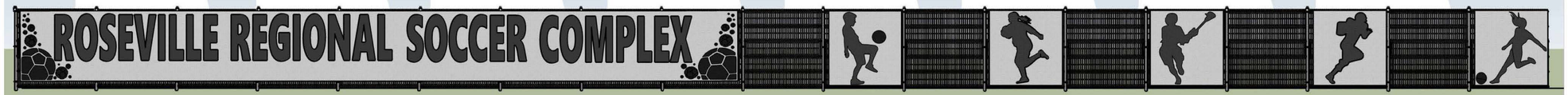


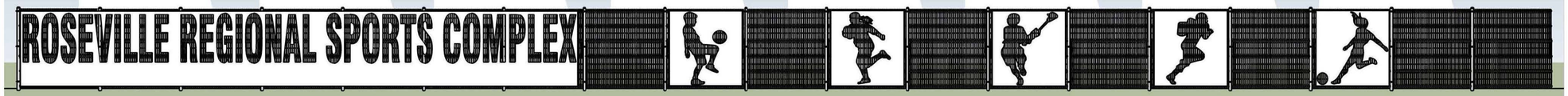


PERFERATED PANEL EXAMPLES FOR OPTION 1

OPTION 1



OPTION 2



OPTION 3



APRIL 04, 2022

CITY OF ROSEVILLE CALIFORNIA

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City of Roseville Soccer Complex
FENCE PANEL ENTRY SIGN DESIGNS
City of Roseville
Westbrook Boulevard

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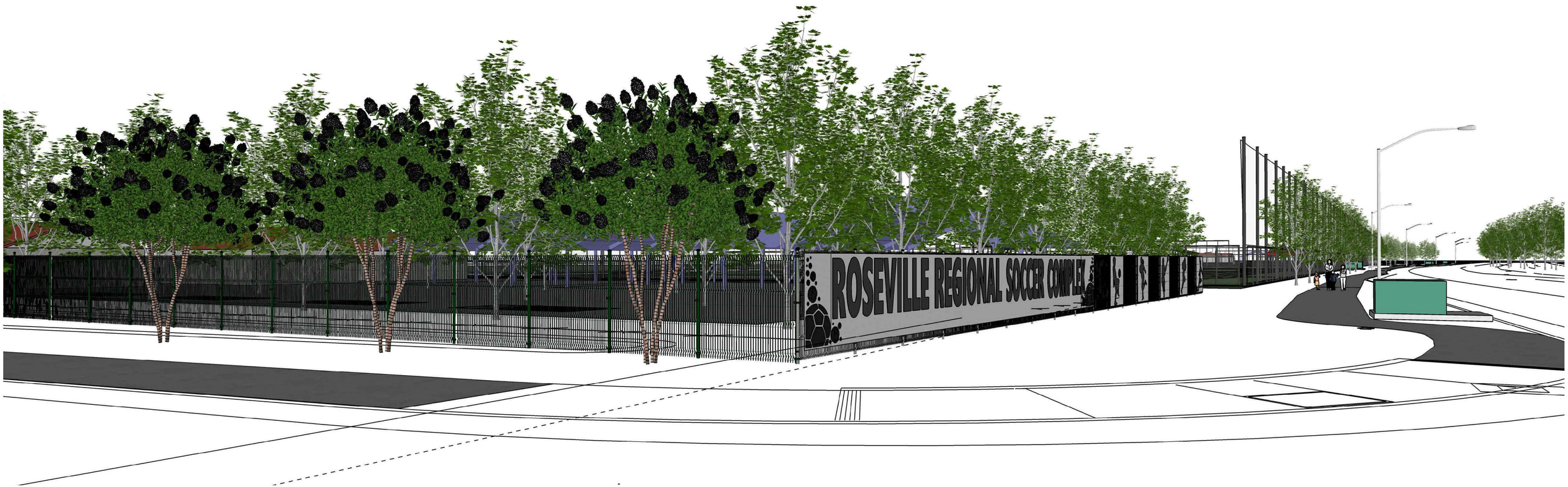
VIEW OF NORTH ENTRY LOOKING SOUTHEAST FROM SOUTHBOUND LANE ON WESTBROOK BLVD.



VIEW LOOKING SOUTH DOWN WESTBROOK BLVD. AT NORTH ENTRY

APRIL 04, 2022

CITY OF ROSEVILLE CALIFORNIA

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City of Roseville Soccer Complex

WESTBROOK BLVD. VISUAL SIMULATIONS

City of Roseville

Westbrook Boulevard

VERDE DESIGN

LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN

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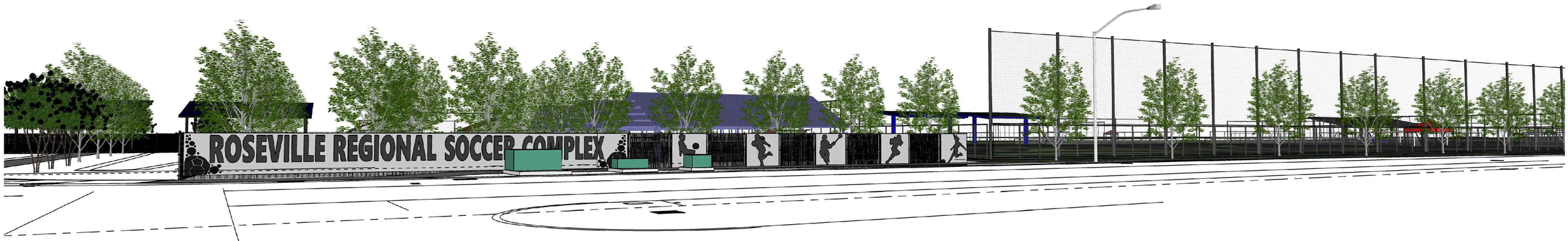
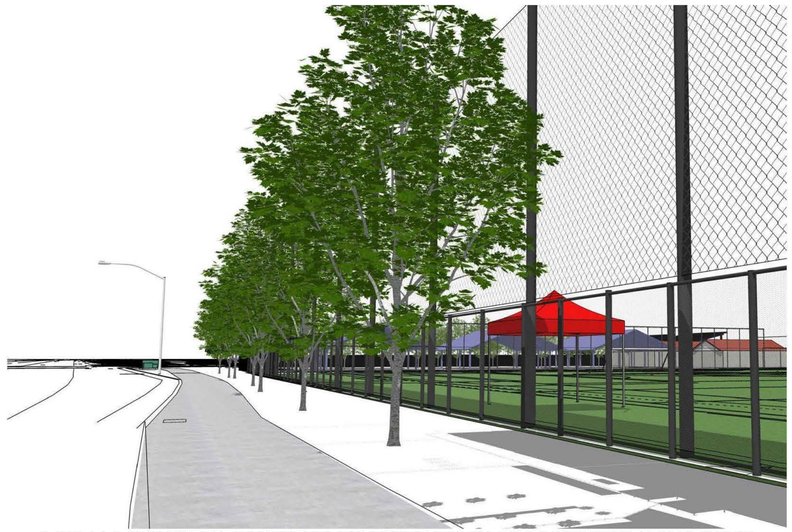


VIEW OF NORTH ENTRY LOOKING EASET FROM OPPOSITE SIDE OF THE STREET STANDING ON SIDEWALK .



VIEW FROM DURANGO WAY INTERSECTION LOOKING ACROSS WESTBROOK BLVD. TOWARD THE NORTH ENTRY



VIEW LOOKING NORTH WALKING DOWN WESTBROOK BLVD.
TOWARD THE NORTH ENTRY

APRIL 04, 2022

CITY OF ROSEVILLE CALIFORNIA

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City of Roseville Soccer Complex
WESTBROOK BLVD. VISUAL SIMULATIONS
City of Roseville
Westbrook Boulevard

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd, Suite 140
Folsom, CA 95630
tel: 408.985.7200
fax: 408.985.7260
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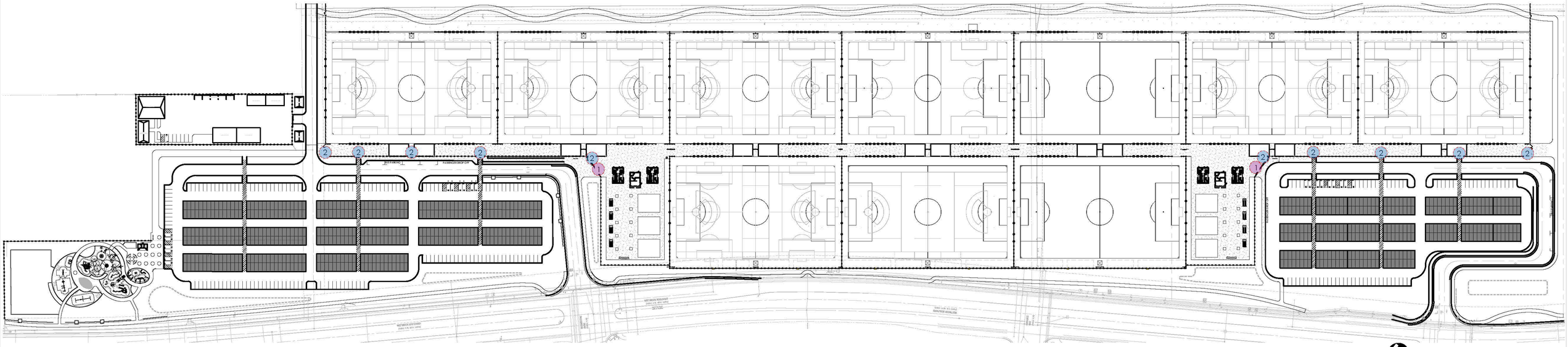
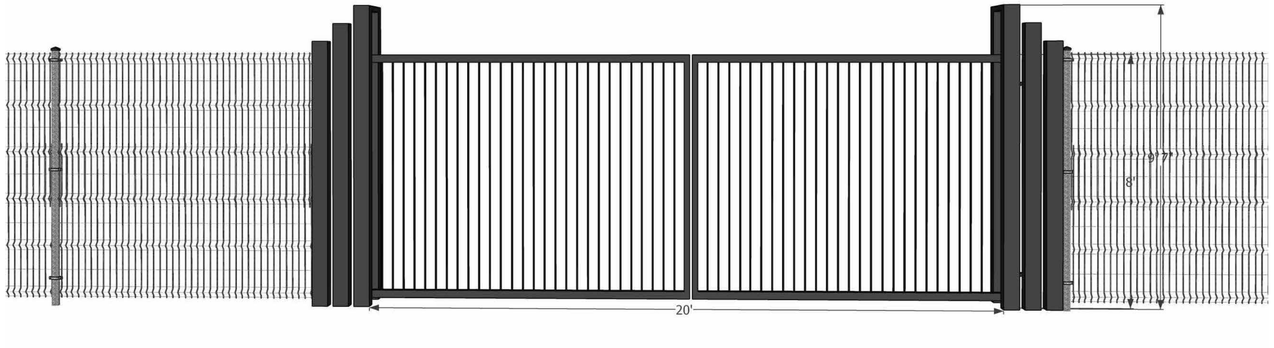


EGRESS GATE REQUIREMENTS

VENUE USE	TOTAL SPECTATORS & TEAM	TEAMS PER FIELD PER DAY	TOTAL FIELDS	TOTAL PEOPLE PER VENUE	0.2" PER PERSON	TOTAL PEDESTRIAN GATES REQIRED	TOTAL PEDESTRIAN GATES PROVIDED
YOUTH TOURNAMENT: 15 PLAYERS, 2 COACHES	24	8	10	1,920	384	4	10
U10 TOURNAMENT: 15 PLAYERS, 2 COACHES	24	8	20	3,840	768	8	10



1. 20' WIDE VEHICULAR GATE



2. 10' WIDE PEDESTRIAN GATE

APRIL 29, 2022

CITY OF ROSEVILLE CALIFORNIA

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City of Roseville Soccer Complex
ENHANCED GATE DESIGNS
City of Roseville
Westbrook Boulevard

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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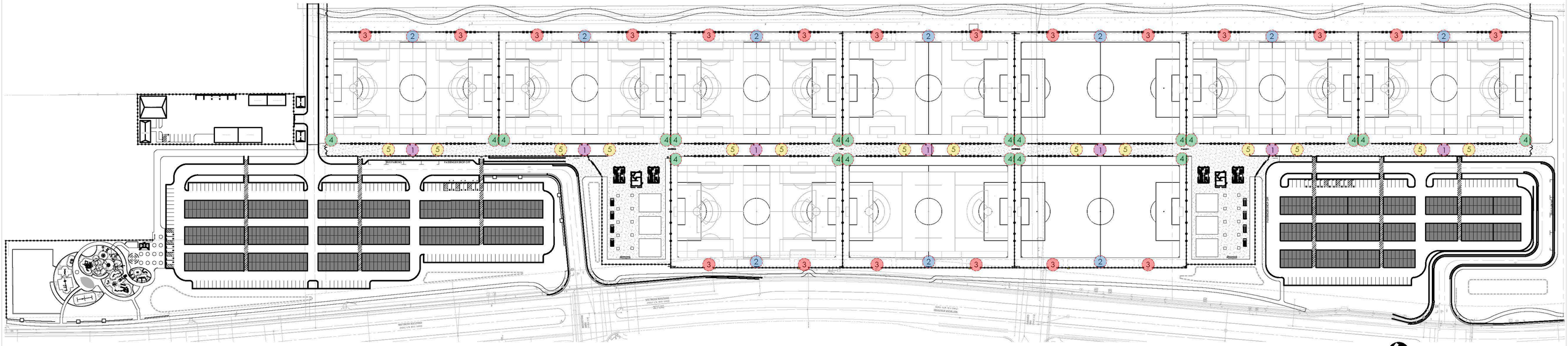
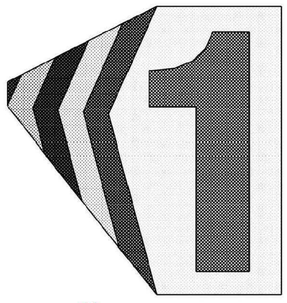


NORTH 0' 50' 100' 200' 400'



1. DISTANCE OVERALL FILED SIGN



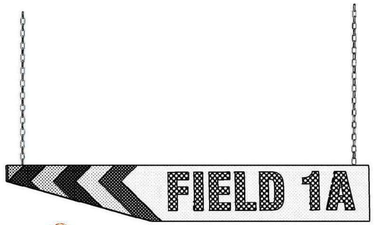
2. MID DISTANCE OVERALL FILED SIGN AND SECONDARY FIELD SIGNS



3. MID DISTANCE SECONDARY FIELD SIGN



4. FENCE PANEL PEDESTRIAN SCALE FILED SIGN AND SECONDARY FIELD SIGNS



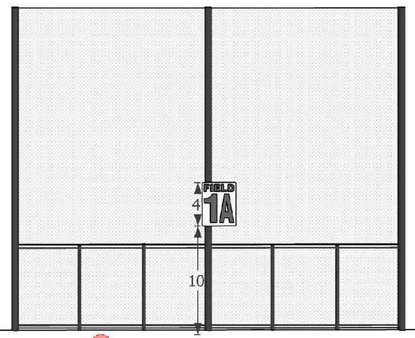
5. SHADE STRUCTURE PEDESTRIAN SCALE FILED SIGN AND SECONDARY FIELD SIGNS



PERFORATED PANEL EXAMPLES FOR ENTRY SIGN

1. DISTANCE OVERALL FILED SIGN

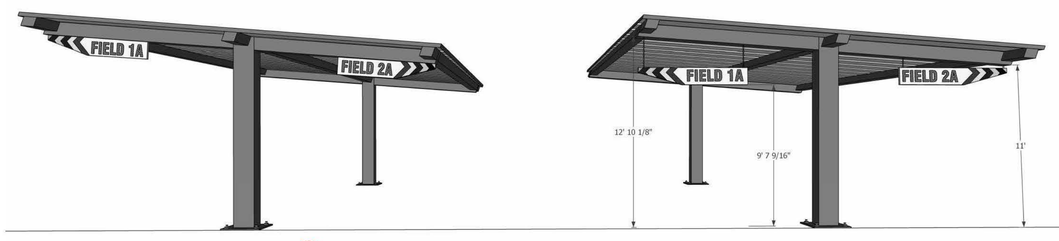
2. MID DISTANCE OVERALL FILED SIGN AND SECONDARY FIELD SIGNS



3. MID DISTANCE SECONDARY FIELD SIGN



4. FENCE PANEL PEDESTRIAN SCALE FILED SIGN AND SECONDARY FIELD SIGNS



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APRIL 29, 2022

CITY OF ROSEVILLE CALIFORNIA

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City of Roseville Soccer Complex

WAYFINDING SIGN PALETTE - OPTION 1

City of Roseville

Westbrook Boulevard

VERDE DESIGN

LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN

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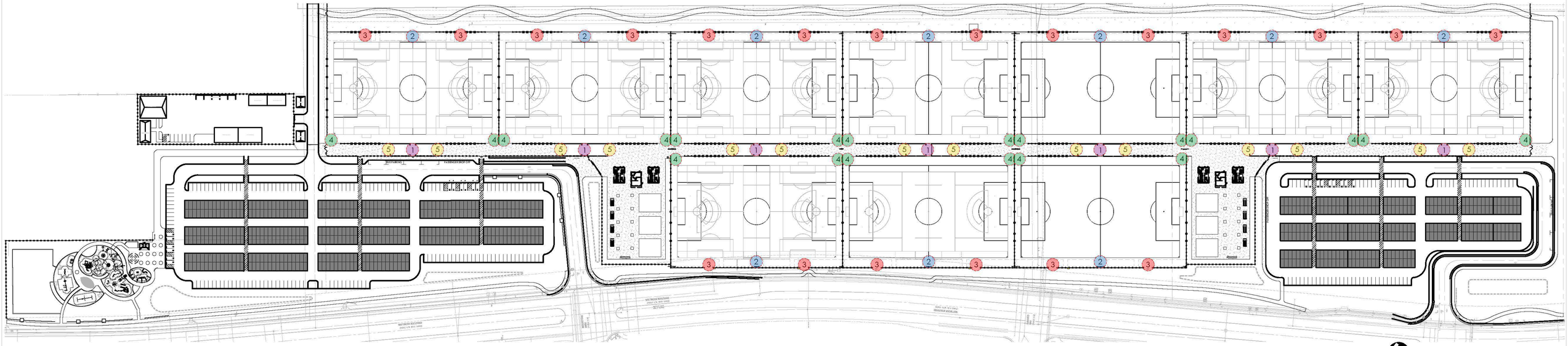
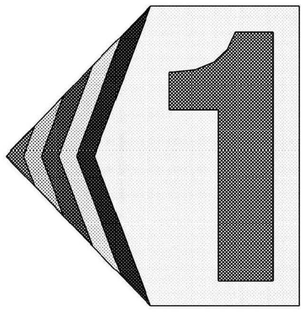
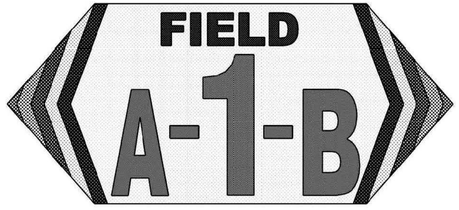
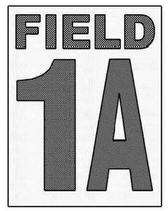




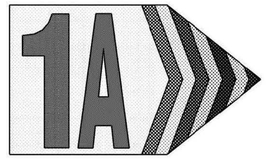
1. DISTANCE OVERALL FILED SIGN



2. MID DISTANCE OVERALL FILED SIGN AND SECONDARY FIELD SIGNS



3. MID DISTANCE SECONDARY FIELD SIGN

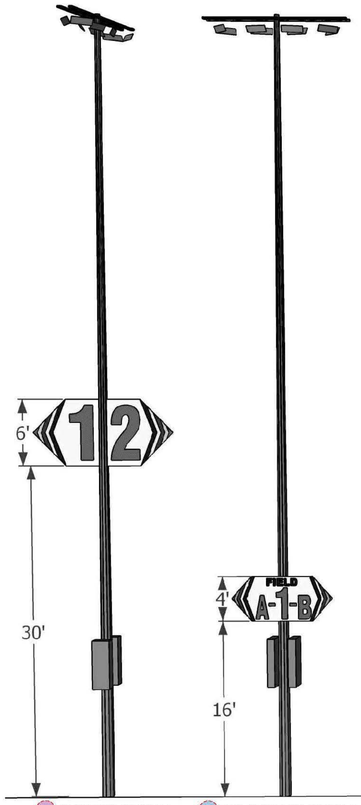


4. FENCE PANEL PEDESTRIAN SCALE FILED SIGN AND SECONDARY FIELD SIGNS



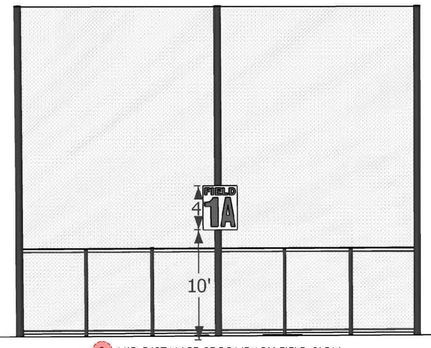
5. SHADE STRUCTURE PEDESTRIAN SCALE FILED SIGN AND SECONDARY FIELD SIGNS





1. DISTANCE OVERALL FILED SIGN

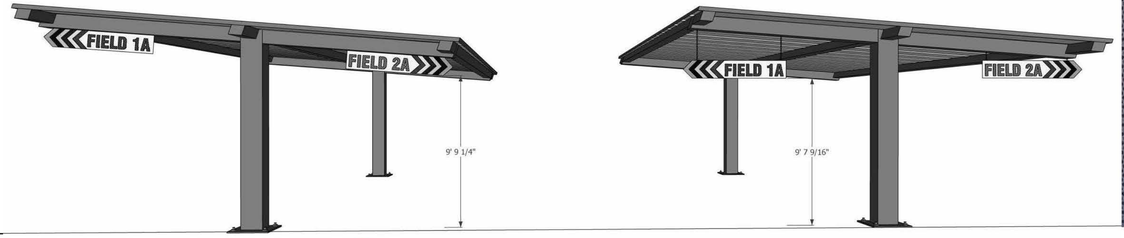
2. MID DISTANCE OVERALL FILED SIGN AND SECONDARY FIELD SIGNS



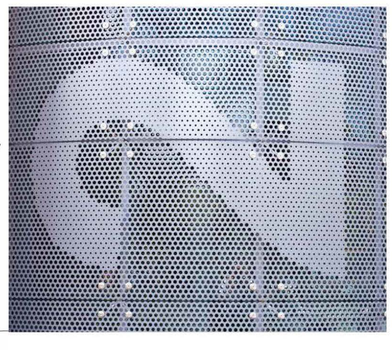
3. MID DISTANCE SECONDARY FIELD SIGN



4. FENCE PANEL PEDESTRIAN SCALE FILED SIGN AND SECONDARY FIELD SIGNS



5. SHADE STRUCTURE PEDESTRIAN SCALE FILED SIGN AND SECONDARY FIELD SIGNS



PERFORATED PANEL EXAMPLES FOR ENTRY SIGN

APRIL 29, 2022

CITY OF ROSEVILLE CALIFORNIA

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City of Roseville Soccer Complex
WAYFINDING SIGN PALETTE - OPTION 2
City of Roseville
Westbrook Boulevard

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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Folsom, CA 95630
tel: 408.985.7200
fax: 408.985.7260
www.verdedesigninc.com

Site Furnishings			
	Mnfc.	Model	Color/Style
Soccer Goal with Skids	Sportsfield Specialties	SG824RS	Color: White Frame, Black Net
Soccer Goal	Sportsfield Specialties	SG824R	Color: White Frame, Black Net
Soccer Wheel Kit	Sportsfield Specialties	SGWKL	n/a
Soccer Corner Flags	Sportsfield Specialties	SG6B1404	Color: Red
Skate Deterrent	Grind To A Halt	Cylinder GrinderMinder	Solid Stainless Steel w/ Brushed Finish
Trash Receptacle	Wabash Valley	TG3D33S	32 Gallon with Liner, Dome Top
Bench	Wabash Valley	SG315P	Color: TBD
Picnic Table	Wabash Valley	SG205P	Color: TBD
Bike Rack	Steelcraft Products	WBR-700	Color: TBD
Restroom & Concession Buildings	Public Restroom		24'x31'4", Internal Layout Varies
Solar Picnic Shade Structure	TBD		
Solar Parking Shade Structure	TBD		
Cantilever Shade Structure	TBD		
Sports Lighting	Musco		
Drinking Fountain	Most Dependable Fountain	10145 SMFA	Color: TBD
Playground Equipment	Landscape Structures		
2" Synthetic Turf	FieldTurf	Vertex Prime with Infill	Green, Striping Varies

Fencing			
30' Tall Protective Netting	Sportsfield Specialties	TNPPUC	
Ornamental Fencing	Omega II	Black, 8'	
Chain Link Fencing	TBD	Black Powder Coated, 42", 8', 12', 16"	

SPORTSFIELD SPECIALTIES
WWW.SPORTSFIELD.COM

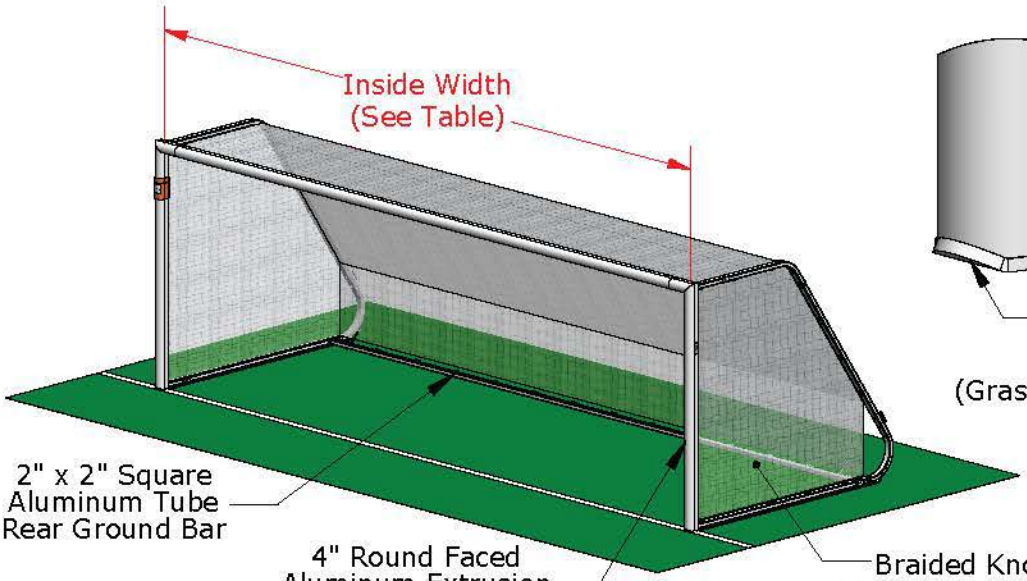
Excellence from Design to Installation
41155 State Highway 10, PO Box 231, Delhi, NY 13753 CALL: 888-975-3343 FAX: 607-746-8481

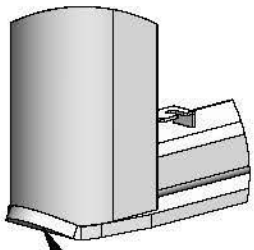
United States Patent #7,331,880, Issued February 19, 2008
United States Patent #7,527,569, Issued May 5, 2009
United States Patent #8,777,784, Issued July 15, 2014

Optional Equipment:
SGWKL5 - Levered Soccer Goal with Skids External Wheel Kit
SG2S® - Soccer Goal Safety System

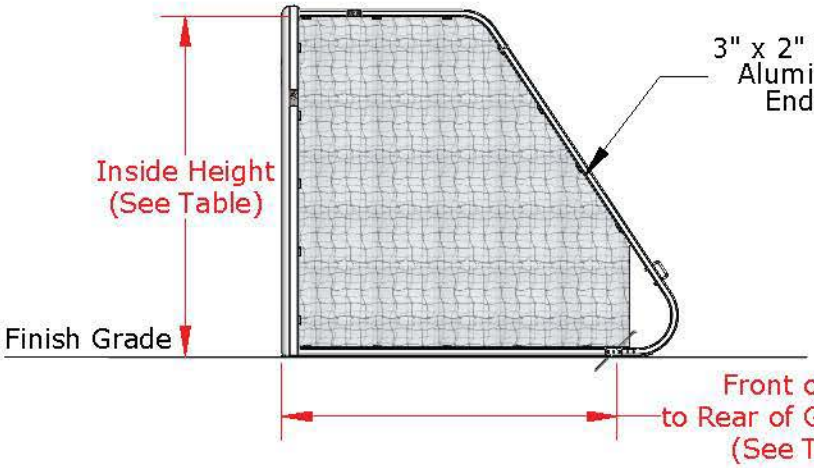
Meets and exceeds ASTM F2950-14 Standard Safety and Performance Specification for Soccer Goals and ASTM F1938-98 Standard Guide for Safer Use of Movable Soccer Goals

Standard White Powder Coated Finish

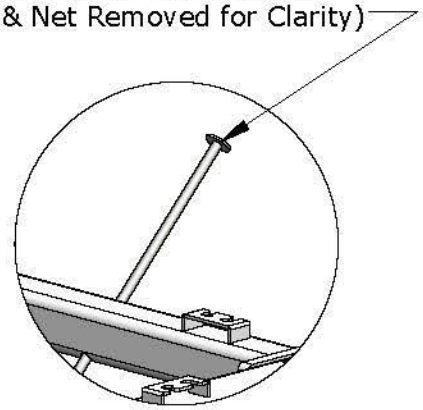




Welded 1/2" x 5"W
Aluminum Skid Plate
(Grass & Net Removed for Clarity)



Anchoring Pin for
Natural Grass Applications
(Grass & Net Removed for Clarity)



Part No.	Size	Inside Height	Inside Width	Front of Post to Rear of Ground Bar	Net Twine Diameter
SG824RS	Regulation	8'-0"	24'-0"	8'-0" or 8'-4"	5 mm
SG721RS	Youth	7'-0"	21'-0"	7'-0"	3 mm
SG618RS	Youth	6'-6"	18'-6"	7'-0"	3 mm

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Round Faced Soccer Goal with Skids

Not To Scale

Sportsfield Specialties Inc 12172020

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WWW.SPORTSFIELD.COM

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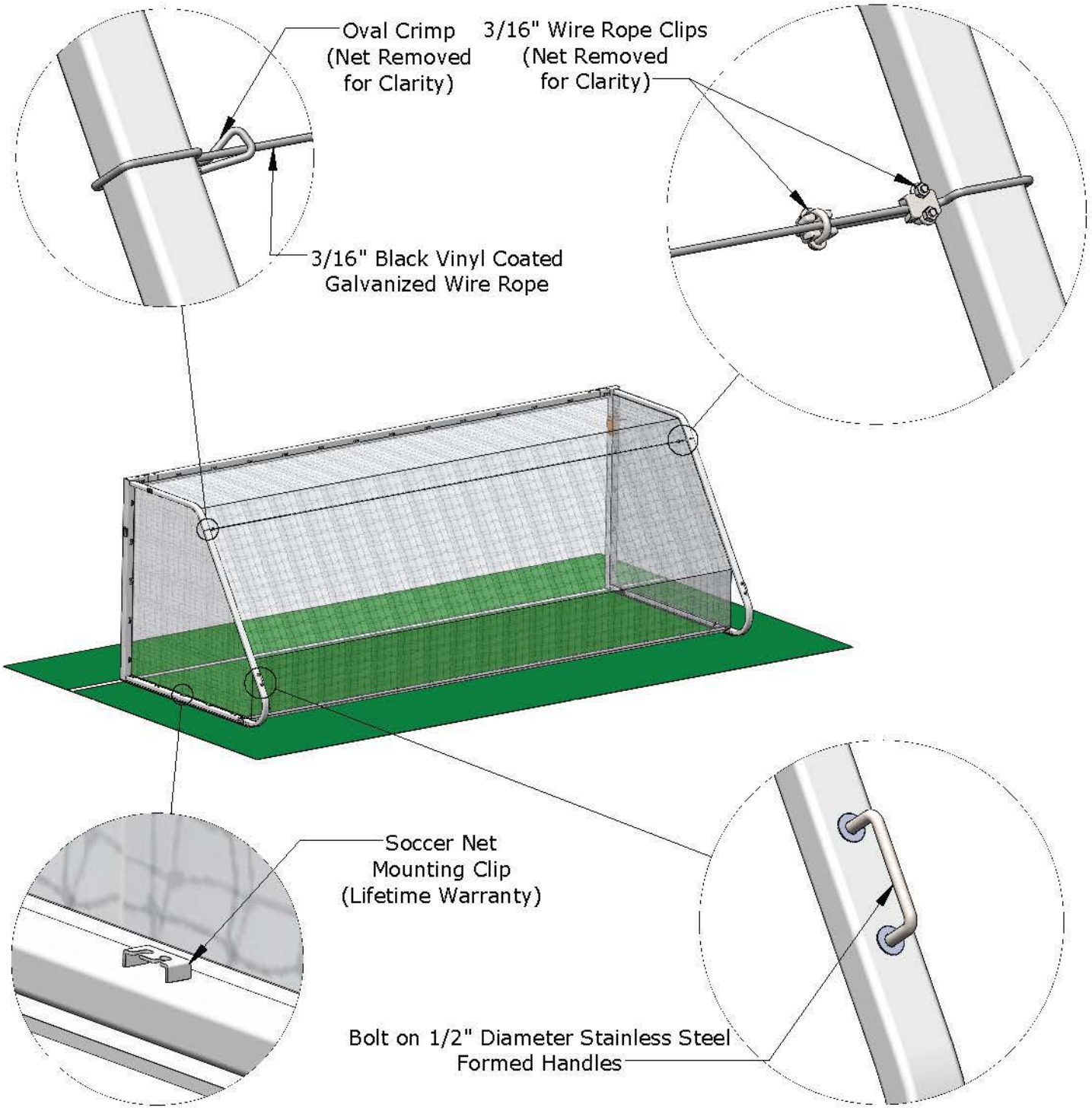

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Optional Equipment:
SGMKR - SGMobile® Integrated Soccer Goal Wheel Kit
SGWKL - Levered Soccer Goal External Wheel Kit
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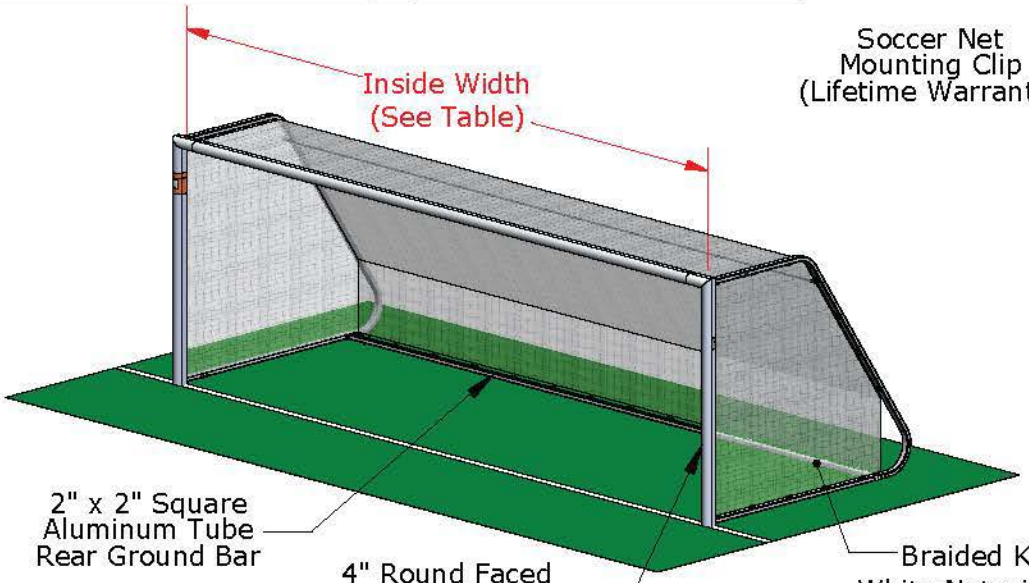
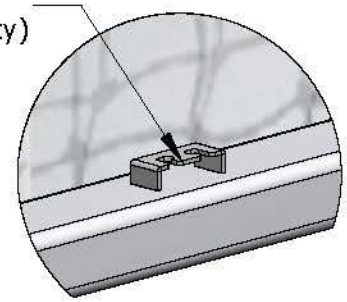
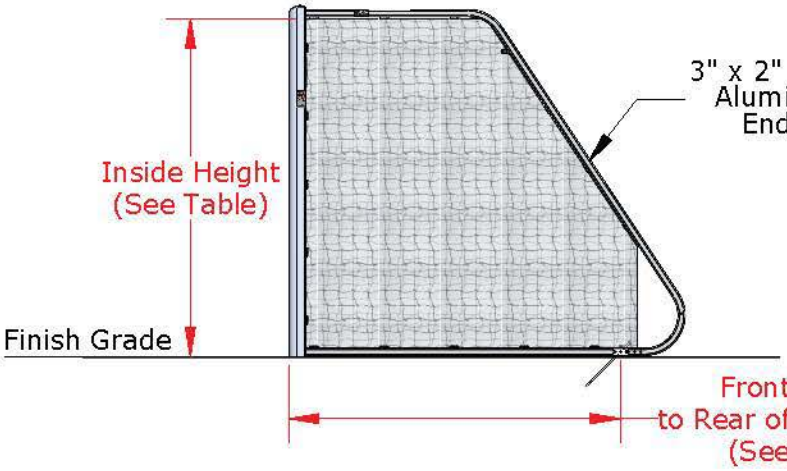
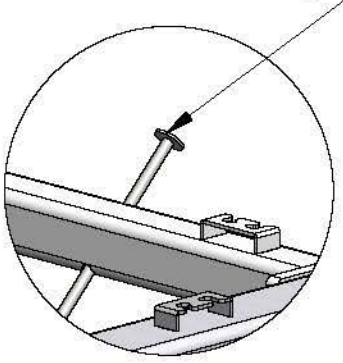


Soccer Net
Mounting Clip
(Lifetime Warranty)





Anchoring Pin for
Natural Grass Applications
(Grass & Net Removed for Clarity)



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Round Faced Soccer Goal

Not To Scale

Sportsfield Specialties Inc 12172020

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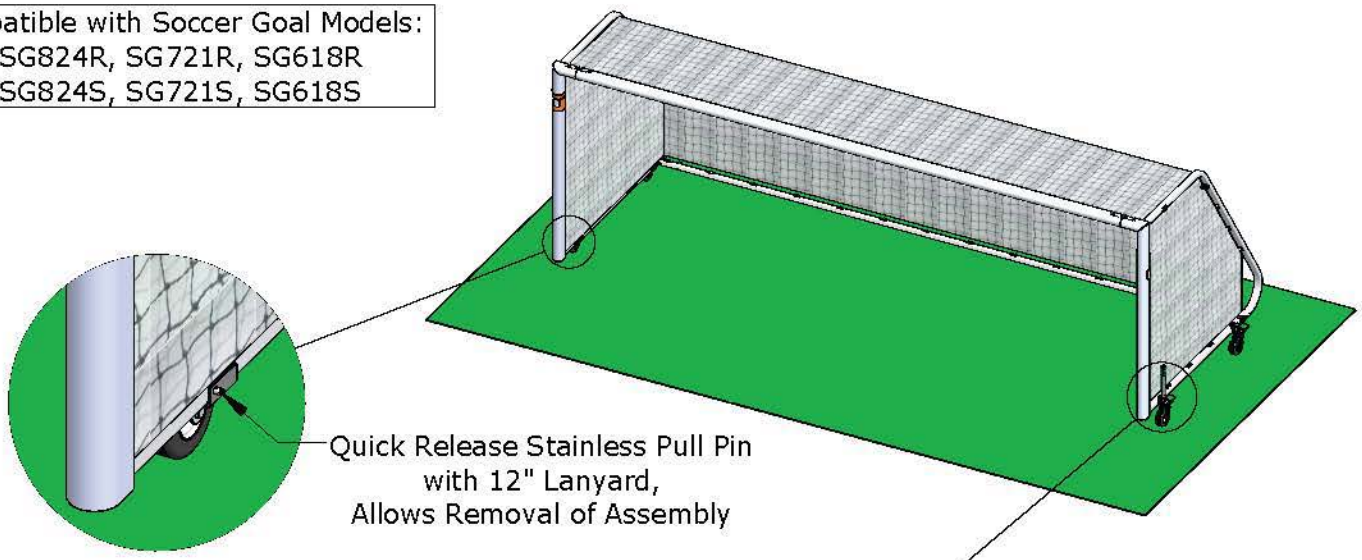
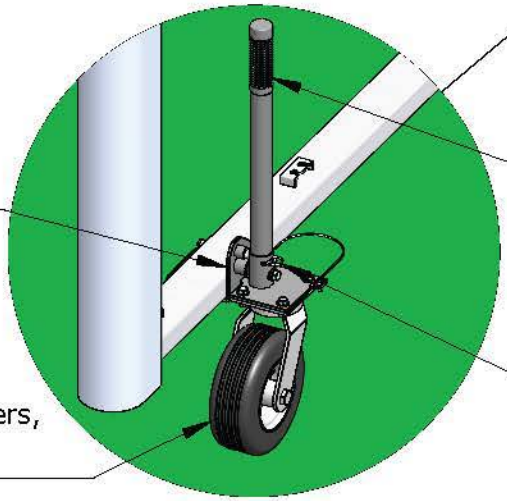
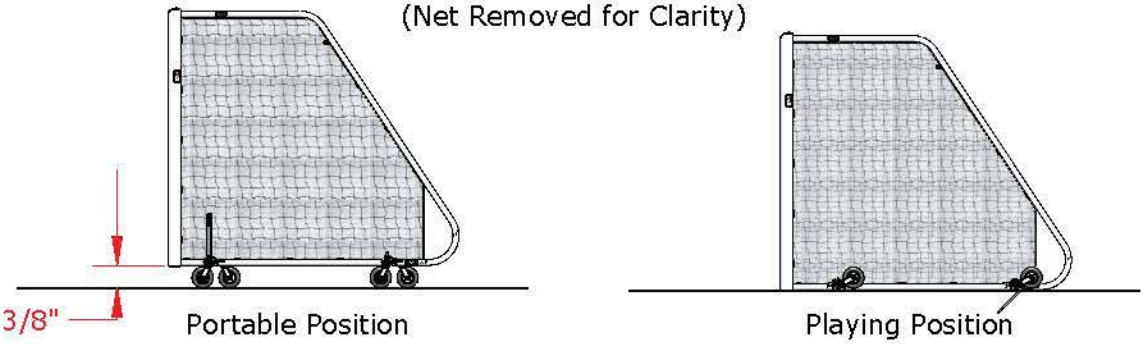
Compatible with Soccer Goal Models:
SG824R, SG721R, SG618R
SG824S, SG721S, SG618S





Wheel Kit can be Installed with
Soccer Net Attached to Goal
(Net Removed for Clarity)



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SGWKL Levered Soccer Goal External Wheel Kit

Not To Scale

Sportsfield Specialties Inc 06182021

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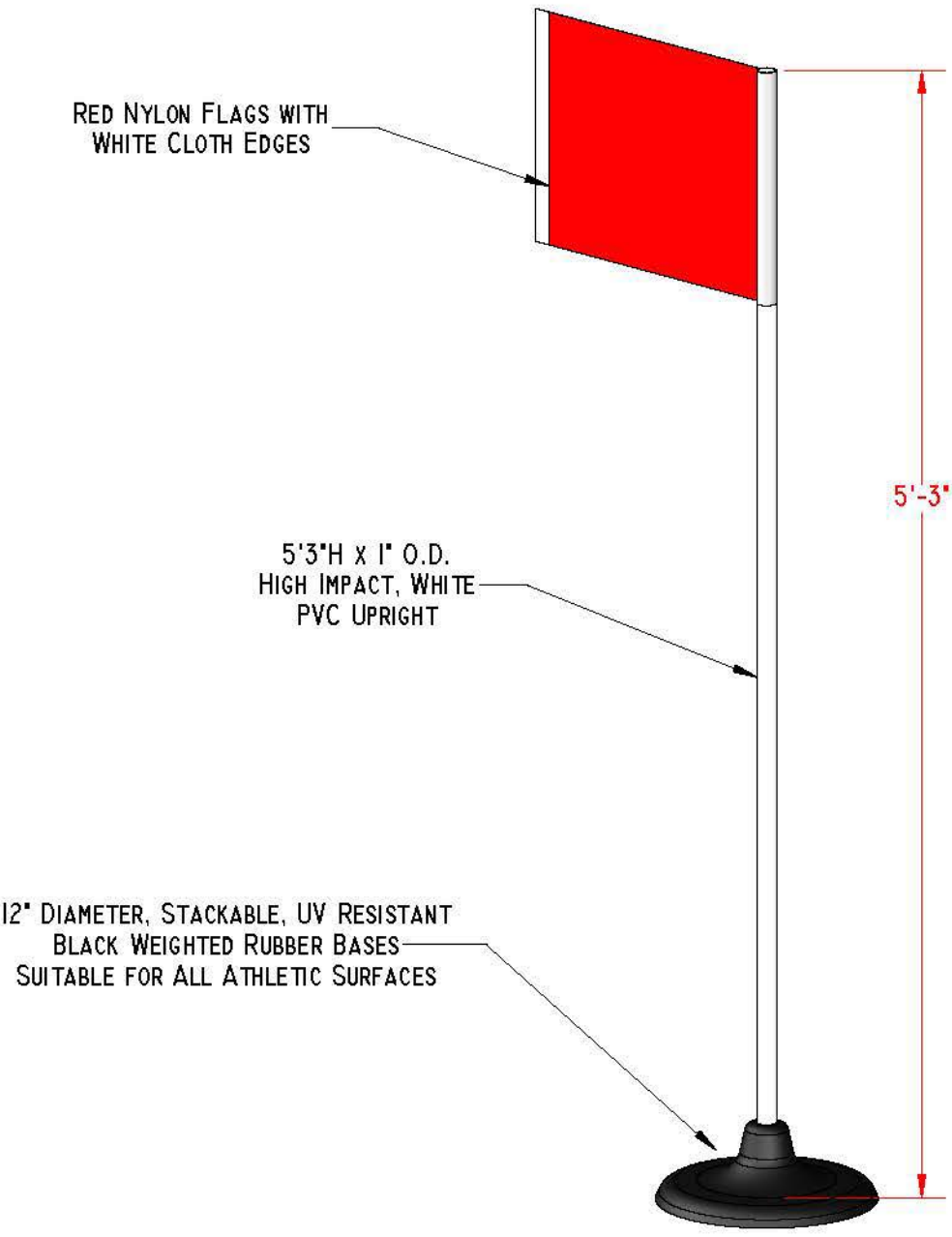

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SG6BI404 - SET OF FOUR (4)
KWIKGOAL® PREMIER SOCCER CORNER FLAGS

NOT TO SCALE

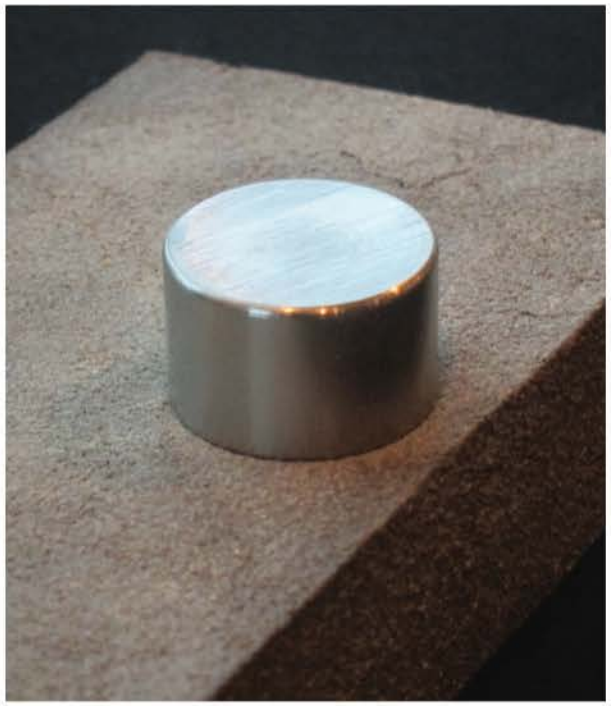
SPORTSFIELD SPECIALTIES INC 02122016

GRIND TO A HALT

CYLINDER
GRINDERMINDER™
SKATEBOARD AND BIKE DETERRANT

PRODUCT DETAIL

The new **Cylinder GrinderMinder** is another version of our original spherical design. The "Cylinder" will give a lower, flat profile and is inserted at a 90 degree angle into the stone or concrete, rather than at an angle. The stem of the "Cylinder" is identical to our original GrinderMinder, so that it will provide the same stability and resistance to vandalism.



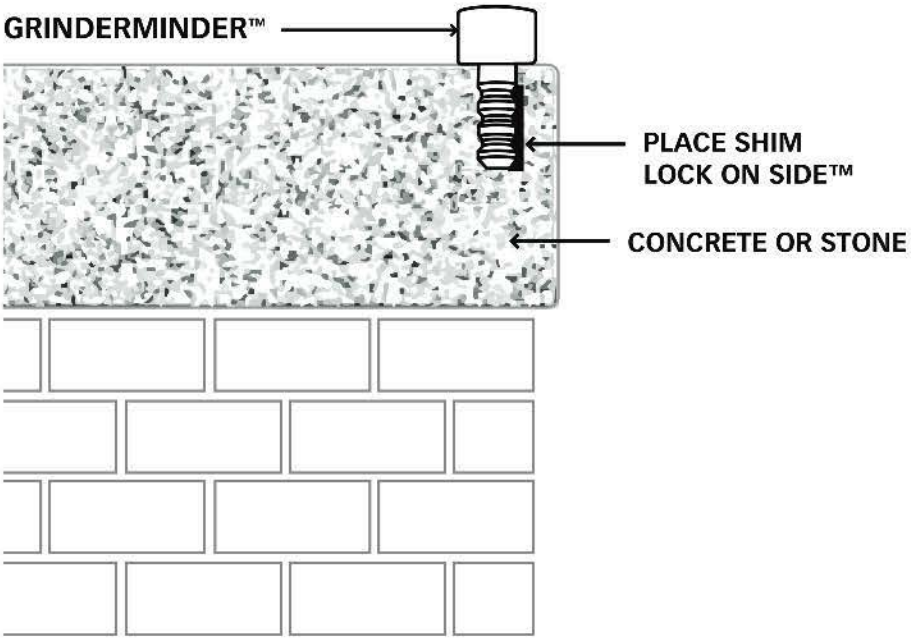
AVAILABLE FINISHES

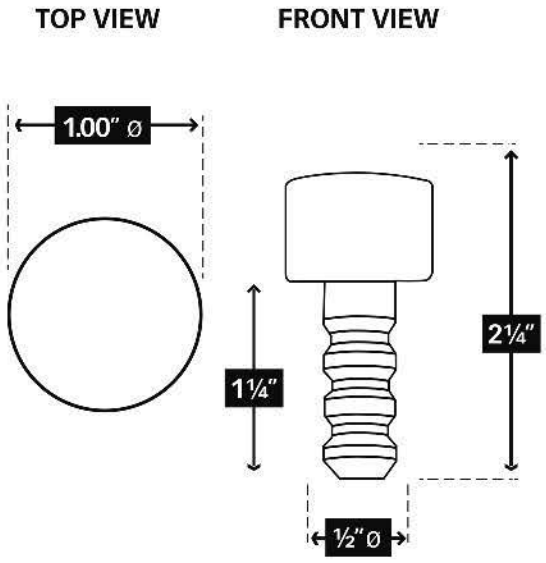
SOLID STAINLESS STEEL WITH A BRUSHED FINISH STANDARD
(our most popular choice)

CAN BE UPGRADED TO: SOLID STAINLESS STEEL WITH A BLACK OXIDE FINISH
(soft, matte black appearance)



INSTALLATION & PRODUCT DETAIL





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TF/PF & TG/PG–Trash/Planter

model no:

PF7532P, PG7533P, TF3C32I, TF3C32P, TF3C32S, TF3D32I, TF3D32P, TF3D32S, TF3F32I, TF3F32P, TF3F32S, TG3C33I, TG3C33P, TG3C33S, TG3D33I, TG3D33P, TG3D33S, TG3F33I, TG3F33P, TG3F33S

INGROUND, PORTABLE & SURFACE RECEPTACLES & PLANTERS – FAUX WOOD & SLAT

customer service:

ASSEMBLERS: If you find any parts missing or damaged, or if you're having difficulty assembling your furniture/equipment, call us at:

• Before calling, have your product model number available.

1–800–253–8619 (Inside U.S.A.)
260–352–2102 (Outside U.S.A.)
Monday thru Friday,
8:00 AM – 4:30 PM Eastern Time
(EXCEPT HOLIDAYS)

maintenance:

Regular inspection and maintenance of all parts, and fasteners is necessary. Tighten all bolts and nuts. Inspect Tops, Seats, Legs, Braces and Fasteners periodically for wear or vandalism. Replace broken or worn parts immediately or take equipment out of service until repairs are made. Use genuine Urbanscape replacement parts.

KEEP THIS ASSEMBLY/SPECIFICATION SHEET FOR FUTURE REFERENCE.

specifications:

NOTE: We reserve the right to change specifications without notice.

Framework assemblies are finished with powder coating; electrostatically applied and oven cured according to powder manufacturer's specifications. Fasteners are stainless steel to resist corrosion.

RECEPTACLE LEGS:
Legs are contructed of 12 gage x 2 3/8" diameter structural steel tubing. Mounting plate consists of 10 gage sheet steel and gusset supports are 14 gage sheet steel. Base plate on surface mount leg is 7 gage plate steel.

RECEPTACLES/PLANTERS:
All tops, bottom, rings and domes are cast aluminum. Sides are aluminum tubing.

GENERAL DIMENSIONS:
Portable ground space requirements for trash receptacles with flat tops are 24 1/2" diameter x 31 3/4" tall. Surface mount and inground ground space requirements for trash receptacles with flat tops are 24 1/2" diameter x 38 1/2" tall. Portable ground space requirements for trash receptacles with domes are 24 1/2" diameter x 39 1/2" tall. Surface mount and inground ground space requirements for trash receptacles with domes are 24 1/2" diameter x 46 1/4" tall. Portable ground space requirements for trash receptacles with domes with ash trays are 24 1/2" diameter x 39" tall. Surface mount and inground ground space requirements for trash receptacles with domes with ash trays are 24 1/2" diameter x 45 3/4" tall. Planters are 24" diameter x 15" tall.

NOTE: Minor scratches to the faux–wood furniture can be touched up using Wood Finish Touch–Up markers or pens. Some recommended touch–up markers are the MINWAX WOOD FINISH STAIN MARKERS. The cherry marker works well with the wheat faux–wood, the Provincial marker closely matches the weathered and italia, and the Dark Walnut marker matches the espresso faux–wood. The touch–up markers can be obtained at a local hardware store or may also be obtained through Urbanscape by contacting customer service.

assembly procedures:

IMPORTANT: Assemblers should be reasonably skilled in the assembly of commercial grade/heavy duty fabricated steel equipment.

To ensure proper assembly, it is suggested that you take adequate time to locate and identify each part. To prevent scratching of the finished pieces, we recommend this unit to be assembled on a clean, flat, solid, surface with a drop cloth, allowing plenty of working room. Also please read the instructions and study the sketches very carefully. A little extra time spent before assembly will be well worth it in performing a complete, proper assembly. Please note that all parts have been precut and pre-drilled.

During the assembly process leave all bolts and nuts "finger tight", until the entire unit is completely assembled. This allows room for movement to level or adjust all seats, tops, benches, framework and braces if necessary. After final adjustment and leveling, permanently tighten all nuts, bolts and fasteners.

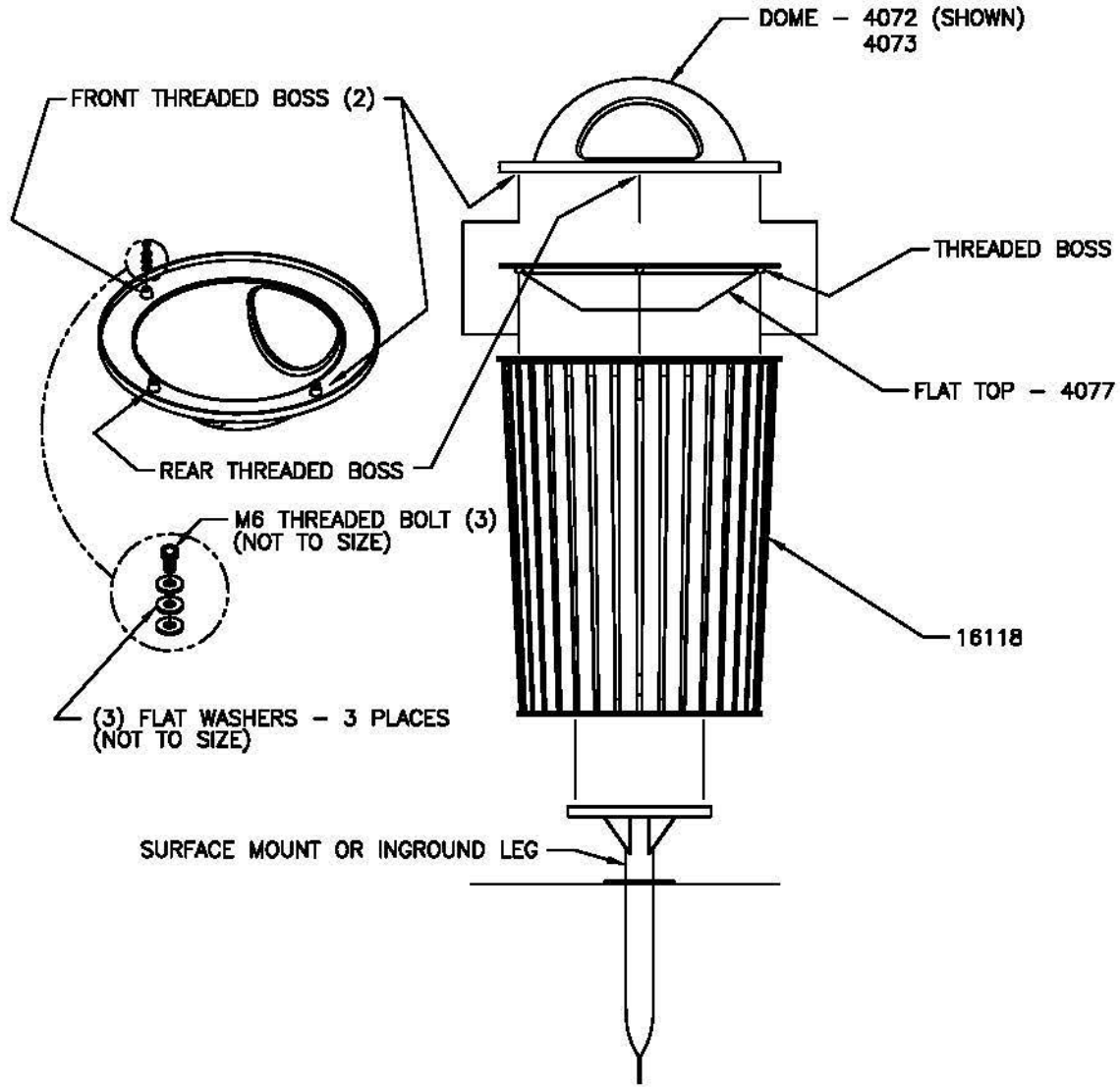
FLAT TOP INSTALLATION:

When installing Flat Top (4077) for proper receptacle door clearance use three flat washers, per M6 threaded Bolt (3). Tighten to a snug fit.

DOME TOP INSTALLATION:

When installing Dome (4072 & 4073) for proper receptacle door clearance use three flat washers, per M6 threaded Bolt (3). Tighten to a snug fit.

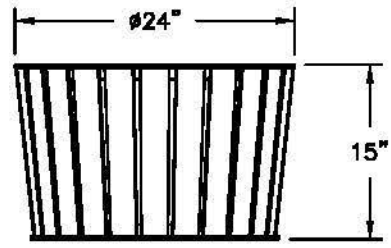
LEG INSTALLATION:
See Leg Hardware Package instructions.



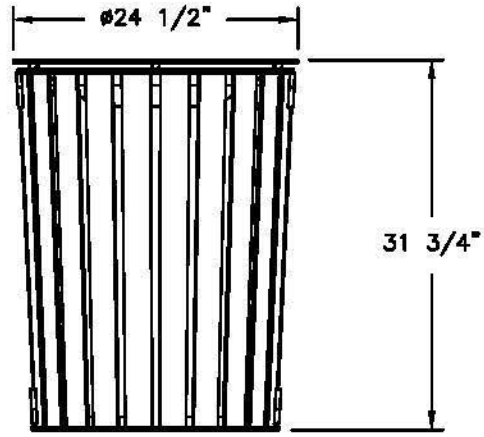
installation:

WARNING: The proper installation for Urbanscape products may depend upon many factors unique to the site, location, or use of a particular product. Consult with your contractor or other professional to determine your specific installation requirements.

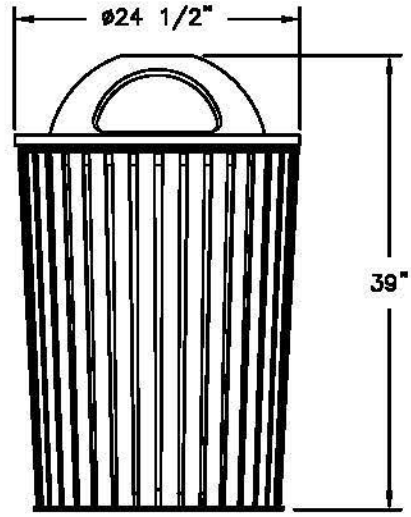
product dimensions:



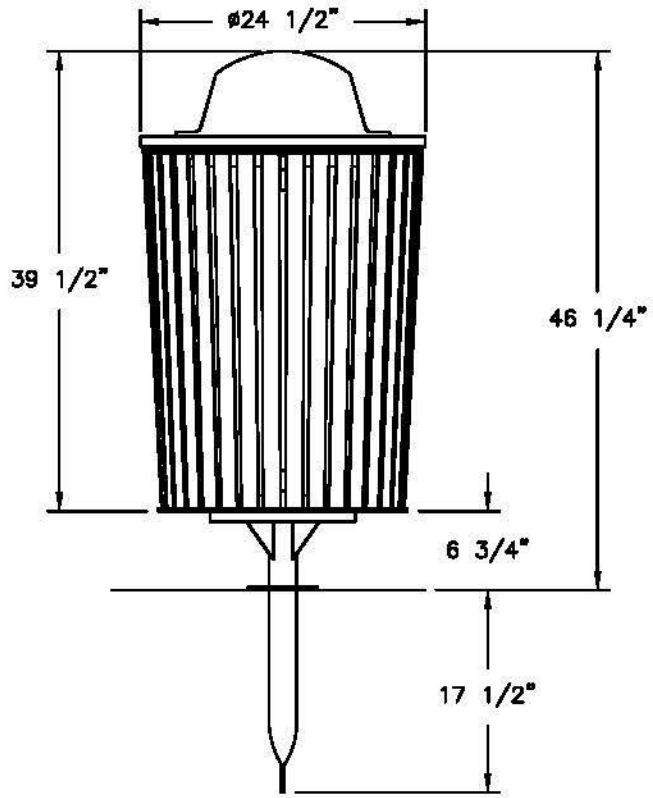
PF7532P/PG7533P



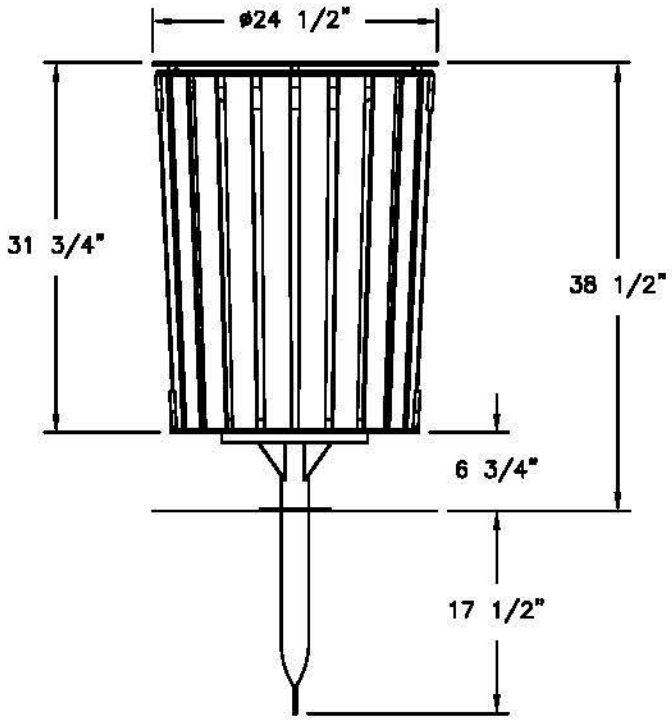
TF3F32P/TG3F33P



TF3C32P/TF3D32P
TG3C33P/TG3D33P



TF3C32I/TF3C32S/TF3D32I/TF3D32S
TG3C33I/TG3C33S/TG3D33I/TG3D33S



TF3F32I/TF3F32S/TG3F33I/TG3F33S



model no:

SG300D, SG300P, SG301D, SG301P, SG303D, SG303P, SG304D, SG304P, SG306D, SG306P, SG307D, SG307P, SG312D, SG312P, SG313D, SG313P, SG315D, SG315P, SG316D, SG316P, SG318D, SG318P, SG319D, SG319P, SIGNATURE SERIES

6' & 8' BENCH WITH & WITH OUT BACK – EXPANDED METAL & PERFORATED – PORTABLE, INGROUND & SURFACE MOUNT

customer service:

ASSEMBLERS: If you find any parts missing or damaged, or if you're having difficulty assembling your furniture/equipment, call us at:

* Before calling, have your product model number available.

1–800–253–8619 (Inside U.S.A.)
260–352–2102 (Outside U.S.A.)
Monday thru Friday,
8:00 AM – 4:30 PM Eastern Time
(EXCEPT HOLIDAYS)

maintenance:

Regular inspection and maintenance of all parts, and fasteners is necessary. Tighten all bolts and nuts. Inspect Tops, Seats, Legs, Braces and Fasteners periodically for wear or vandalism. Replace broken or worn parts immediately or take equipment out of service until repairs are made. Use genuine Wabash Valley replacement parts.

To restore plastisol coating to its luster after prolonged use, wash/rinse/dry and use Armor–All ® or similiar quality vinyl protectant.

KEEP THIS ASSEMBLY/SPECIFICATION SHEET FOR FUTURE REFERENCE.

specifications:

NOTE: We reserve the right to change specifications without notice.

Heat fused poly–vinyl coating, finished on inner–metal structure, to an approximate 3/16" thickness.
Framework assemblies are finished with powder coating; electrostatically applied and oven cured according to powder manufacturer's specifications. Fasteners are stainless steel to resist corrosion.

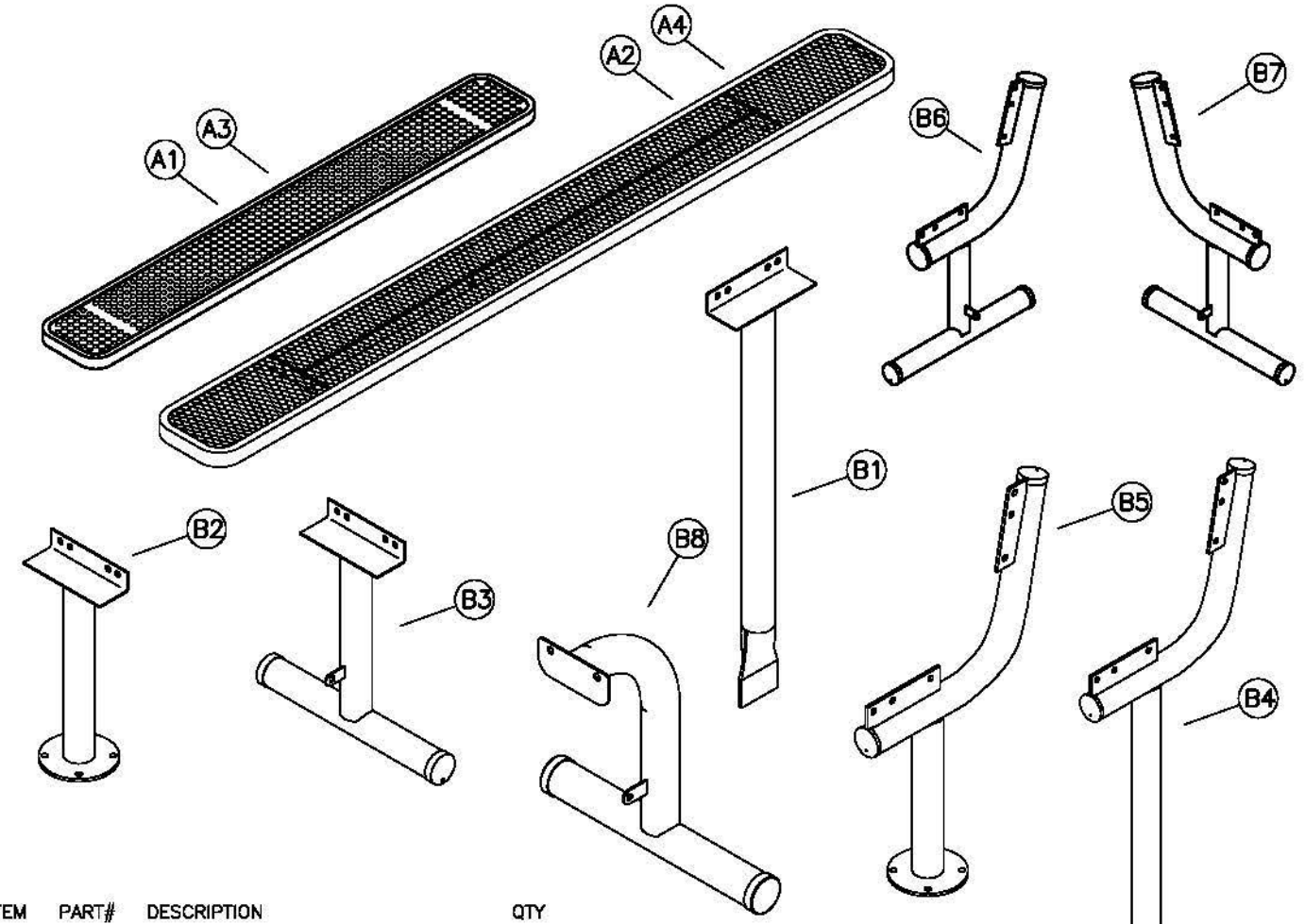
BENCH FRAME:
Main supports are constructed of 2 3/8" od x 12 gage structural steel tubing. Braces are 1" od x 15 gage structural steel tubing. Mounting brackets on legs are 1/4" x 2" steel flat bar or 10 gage sheet steel. Base plates are 1/4" plate steel.

SEATS:
Seat and back uses 3/4" #9 expanded steel mesh and 12 gage sheet steel for the perforated. Framing consists of die formed 10 gage mitered angles 3/4" x 1 3/4". Center brace and mounting brackets are 1/4" x 1 1/2" steel flat bar.

GENERAL:
6' bench ground space requirements are; inground and surface mount with out back is 10 3/8" x 72 3/8", with back is 19 5/8" x 72 3/8", portable with out back is 18 1/8" x 72 3/8", with back is 23 3/16" x 72 3/8". Seats are 10 3/8" wide x 72 3/8" long, 19" to top of seat and 31 3/4" to top of bench. Corner radius is 3" to the outside.

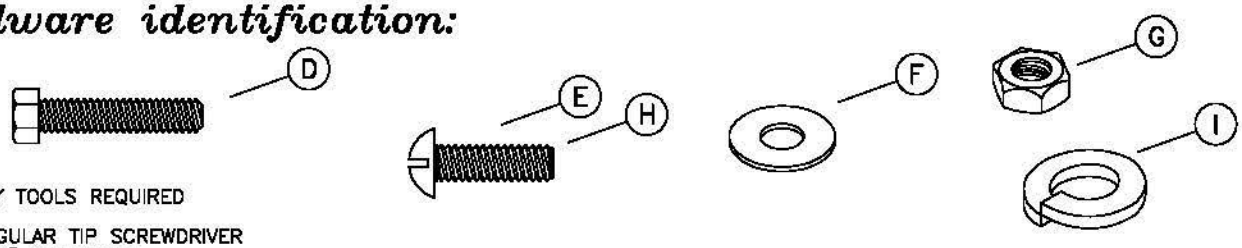
8' Bench ground space requirements are; inground and surface mount with out back is 10 3/8" x 96 3/8", with back is 19 5/8" x 96 3/8", portable with out back is 18 1/8" x 96 3/8", with back is 23 3/16" x 96 3/8". Seats are 10 3/8" wide x 96 3/8" long, 19" to top of seat and 31 3/4" to top of bench. Corner radius is 3" to the outside.

parts identification:



ITEM	PART#	DESCRIPTION	QTY
A1	7529R	6' EXPANDED METAL SEAT	1
A2	7527R	8' EXPANDED METAL SEAT	1
A3	7994	6' PERFORATED SEAT	1
A4	7992	8' PERFORATED SEAT	1
B1	7339	BENCH W/O BACK INGROUND LEG	2
B2	7340	BENCH W/O BACK SURFACE LEG	2
B3	7341	BENCH W/O BACK PORTABLE LEG	2
B4	7345	BENCH W/BACK INGROUND LEG	2
B5	7346	BENCH W/BACK SURFACE LEG	2
B6	7347	BENCH W/BACK PORTABLE RIGHT LEG	1
B7	7348	BENCH W/BACK PORTABLE LEFT LEG	1
B8	7072	8' RE/PLAYER PORTABLE LEG	2
C1	7388	BRACE	2
C2	7120	MOUNTING PLATE COVER (OPTIONAL)	2
C3	7073	8' RE/PLAYER BRACE	2

hardware identification:



ASSEMBLY TOOLS REQUIRED

1 – REGULAR TIP SCREWDRIVER
2 – 1/2" WRENCHES
1 – 3' OR 6' LEVEL

ITEMS INCLUDED IN HARDWARE PACKAGE #:			21011	21012	21013	21014	21069	21076	21101
ITEM	PART#	DESCRIPTION	QTY	QTY	QTY	QTY	QTY	QTY	QTY
D	17011	5/16–18 x 1 1/2" HEX HEAD BOLT – SS	6	8	10	4	4	8	0
E	17088	5/16–18 x 1" TRUSS HEAD MACHINE SCREW – SS	2	0	2	0	0	0	0
F	17028	3/8" FLAT WASHER – SS	16	16	24	8	8	16	0
G	17032	5/16–18 HEX FINISH NUT – SS	8	8	12	4	4	8	0
H	17052	1/4–20 x 1" MACHINE SCREW – SS	0	0	0	0	0	0	2
I	17050	5/16" SPLIT LOCK WASHER – SS	8	8	12	4	4	8	0

assembly procedures:

IMPORTANT: Assemblers should be reasonably skilled in the assembly of commercial grade/heavy duty fabricated steel equipment.

To ensure proper assembly, it is suggested that you take adequate time to locate and identify each part. To prevent scratching of the finished pieces, we recommend this unit to be assembled on a clean, flat, solid, surface with a drop cloth, allowing plenty of working room. **Also please read the instructions and study the sketches very carefully.** A little extra time spent before assembly will be well worth it in performing a complete, proper assembly. Please note that all parts have been precut and pre–drilled.

During the assembly process leave all bolts and nuts "finger tight", until the entire unit is completely assembled. This allows room for movement to level or adjust all seats, tops, benches, framework and braces if necessary. **After final adjustment and leveling, permanently tighten all nuts, bolts and fasteners.**

PORTABLE WITH BACK

STEP 1
Invert the (A–) seat upside down on an elevated surface. Place edge of seat flush with surface. Attach both (B6) and (B7) right and left legs to the outer most part of the seat's mounting brackets, with the tab on each leg facing each other toward the center of the seat, see FIG. 1. Use two, per leg, (D) and (G) using two (F) and one (I) per (D).

STEP 2
Attach one end of the (C1) brace to tab on leg. Use one (E), (G), (I) and two (F) per (E). Attach opposite end of brace to the center brace on the seat. Use one (D), (G), (I) and two (F) per (D). Repeat STEP 2 for other end.

STEP 3
Rotate bench to the upright position. Attach the second seat (A1) or (A2) to the outer most part of the bench's back mounting bracket, see FIG. 2. Use two, per each side, (D) and (G) using two (F) and one (I) per each (D).

FIG. 1

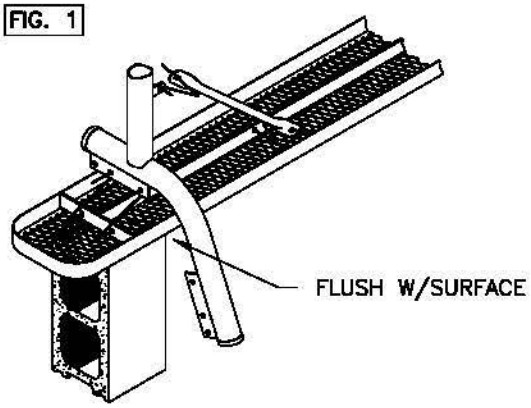
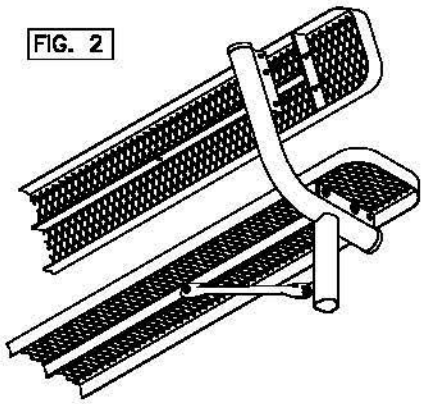


FIG. 2



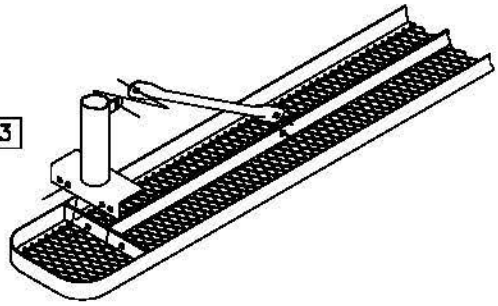
PORTABLE WITH OUT BACK

STEP 1
Invert the (A–) seat upside down on a flat surface. Attach both (B3–6') or (B8–8' not shown) legs to the outer most part or the seat's mounting brackets, with the tab on each leg facing each other toward the center of the seat, see FIG. 3. Use two, per leg, (D) and (G) using two (F) and one (I) per (D).

STEP 2
Attach one end of the (C1–6') or (C3–8') brace to tab on leg. Use one (E), (G), (I) and two (F) per (E). Attach the opposite end of brace to the center brace on the seat. Use one (D), (G), (I) and two (F) per (D). Repeat STEP 2 for the other end.

STEP 3
Rotate bench to the upright position.

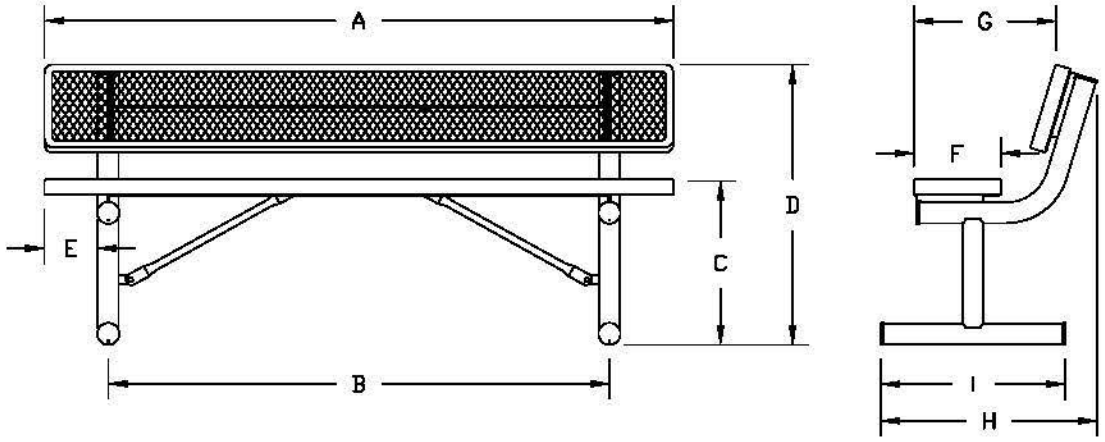
FIG. 3



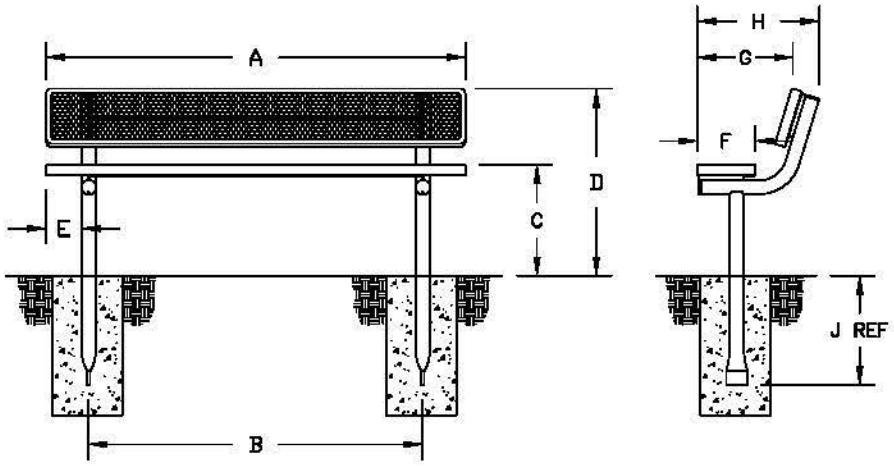
installation:

WARNING: The proper installation for Wabash Valley products may depend upon many factors unique to the site, location, or use of a particular product. Consult with your contractor or other professional to determine your specific installation requirements.

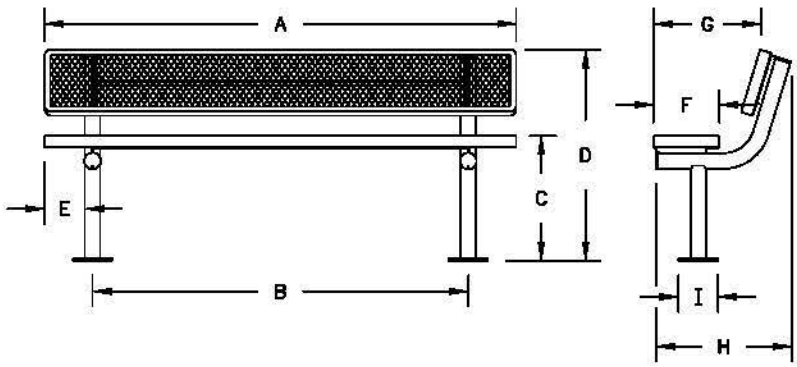
product dimensions:



PORTABLE	A	B	C	D	E	F	G	H	I
6' W/O BACK	72 3/8"	54 1/2"	19"	–	7 3/4"	10 3/8"	–	–	18 1/8"
6' W/ BACK	72 3/8"	57 3/8"	19"	31 3/4"	6 5/16"	10 3/8"	15"	23 3/16"	18 1/8"
8' W/O BACK	96 3/8"	62 1/2"	19"	–	15 3/4"	10 3/8"	–	–	18 1/8"
8' W/ BACK	96 3/8"	65 3/8"	19"	31 3/4"	14 5/16"	10 3/8"	15"	23 3/16"	18 1/8"



INGROUND	A	B	C	D	E	F	G	H	J
6' W/O BACK	72 3/8"	54 1/2"	19"	–	7 3/4"	10 3/8"	–	–	18 1/8"
6' W/ BACK	72 3/8"	57 3/8"	19"	31 3/4"	6 5/16"	10 3/8"	15"	19 5/8"	20 1/8"
8' W/O BACK	96 3/8"	62 1/2"	19"	–	15 3/4"	10 3/8"	–	–	18 1/8"
8' W/ BACK	96 3/8"	65 3/8"	19"	31 3/4"	14 5/16"	10 3/8"	15"	19 5/8"	20 1/8"



SURFACE	A	B	C	D	E	F	G	H	I
6' W/O BACK	72 3/8"	54 1/2"	19"	–	7 3/4"	10 3/8"	–	–	6"
6' W/ BACK	72 3/8"	57 3/8"	19"	31 3/4"	6 5/16"	10 3/8"	15"	19 5/8"	6"
8' W/O BACK	96 3/8"	62 1/2"	19"	–	15 3/4"	10 3/8"	–	–	6"
8' W/ BACK	96 3/8"	65 3/8"	19"	31 3/4"	14 5/16"	10 3/8"	15"	19 5/8"	6"

assembly procedures, cont'd:

SURFACE MOUNT WITH BACK

STEP 1
Invert the (A–) seat upside down on an elevated surface. Place edge of seat flush with surface. Attach both (B5) legs to the outer most part of the seat's mounting brackets, see FIG. 4. Use two, per leg, (D) and (G) using two (F) and one (I) per (D).

STEP 2
Reinvert bench to its top side up position. Attach the second seat (A–) to the outer most part of the bench's back mounting bracket, see FIG. 5. Use two, per each side, (D) and (G) using two (F) and one (I) per each (D).

STEP 3
Prepare and place the foundations securement hardware in its chosen location. A detailed description of where the hole locations should be placed is shown on page 4.

When the foundations securement hardware has been installed, place the unit in its new location and secure to the foundation.

If mounting plate covers (C2) are used place halves around legs and secure with 2 (H) screws, see FIG. 12. Draw to a snug fit being careful not to over tighten.

FIG. 4

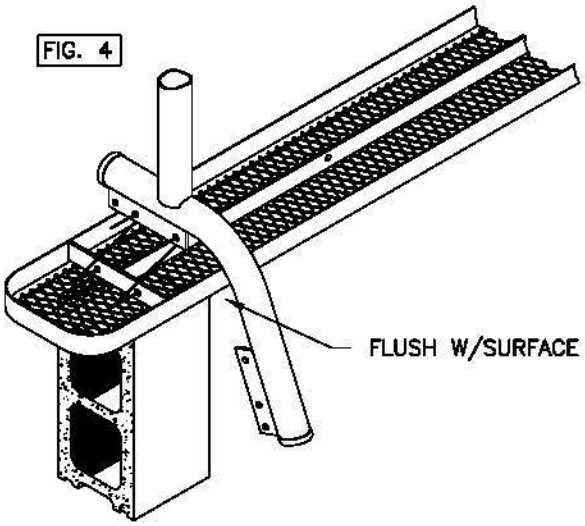
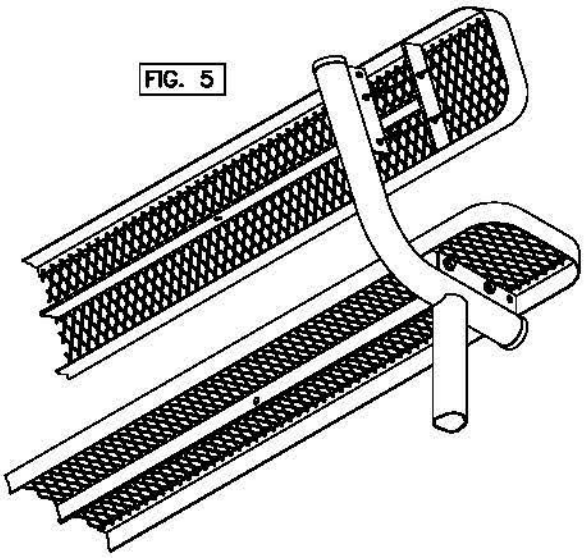


FIG. 5



SURFACE MOUNT WITH OUT BACK

STEP 1
Invert the (A–) seat upside down on a flat surface. Attach both (B2) legs to the outer most part of the seat's brackets, see FIG. 6. Use two, per leg, (D) and (G) using two (F) and one (I) per (D).

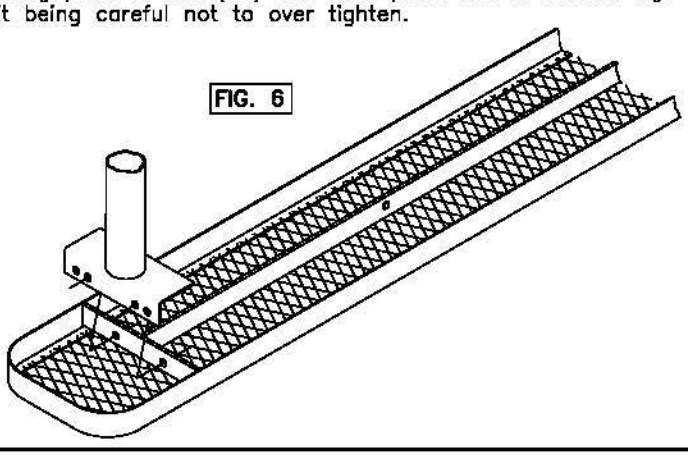
STEP 2
Reinvert bench to its top side up position.

STEP 3
Prepare and place the foundations securement hardware in its chosen location. A detailed description of where the hole locations should be placed is shown on page 4.

When the foundations securement hardware has been installed, place the unit in its new location and secure to the foundation.

If mounting plate covers (C2) are used place halves around legs and secure with 2 (H) screws, see FIG. 12. Draw to a snug fit being careful not to over tighten.

FIG. 6



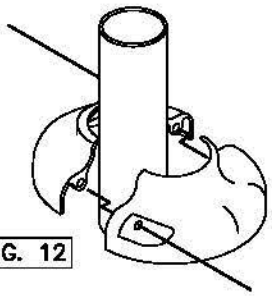


FIG. 12

assembly procedures, cont'd:

INGROUND WITH BACK

STEP 1
Invert the (A–) seatupside down on an elevated surface. Place edge of seat flush with surface. Attach both (B4) legs to the outer–most part of the seat's mounting brackets, see FIG. 7. Use two, per leg, (D) and (G) using two (F) and one (I) per (D).

STEP 2
Prepare two foundation holes as shown in FIG. 8. The distance of holes, center to center, are shown in a diagram on page 4. Reinvert the bench to its' top side up position and place the legs in the footing holes, see FIG. 8.

Before pouring concrete, make sure the bench is level horizontally as well as vertically and holds 19" to the top of the bench. Pour concrete to form the footings and let cure for 48 hours.

STEP 3
Attach the second bench (A1) or (A2) to the outer most part of the bench's back mounting bracket, see FIG. 9. Use two, per each side, (D) and (G) using two (F) and one (I) per each (D).

If mounting plate covers (C2) are used place halfs around legs and secure with 2 (H) screws, see FIG. 12. Draw to a snug fit being careful not to over tighten.

FIG. 7

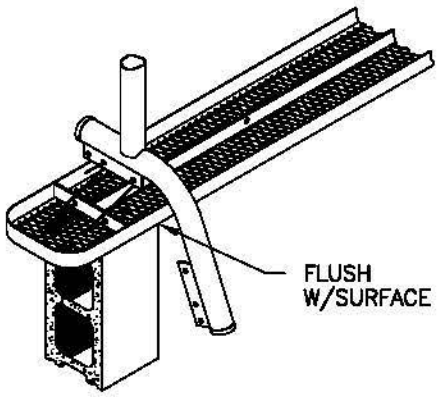


FIG. 8

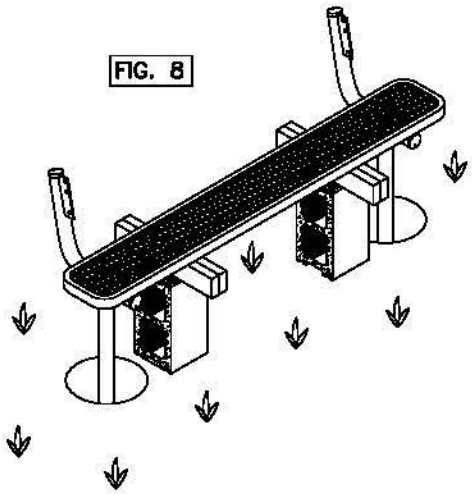
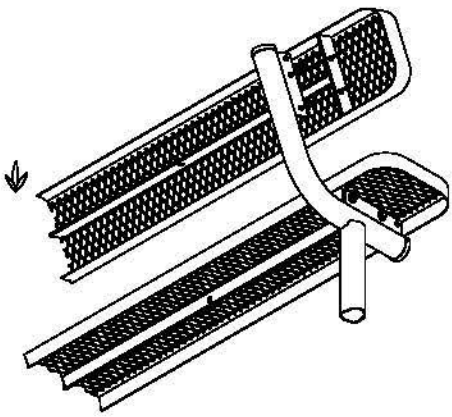


FIG. 9



INGROUND WITH OUT BACK

STEP 1
Invert the (A–) seat upside down on a flat surface. Attach both (B1) legs to the outer most part of the seat's mounting brackets, see FIG. 10. Use two, per leg, (D) and (G) using two (F) and one (I) per (D).

STEP 2
Prepare two foundation holes as shown in FIG. 11. The distance of the holes, center to center, are shown in a diagram on page 4. Reinvert the bench to its' top side up position and place the legs in the footing holes. Block the bench as shown in FIG. 11.

Before pouring concrete, make sure the bench is level horizontally as well as vertically and holds 19" to the top of the bench. Pour concrete to form the footings and let cure for 48 hours.

If mounting plate covers (C2) are used place halfs around legs and secure with 2 (H) screws, see FIG. 12. Draw to a snug fit being careful not to over tighten.

FIG. 10

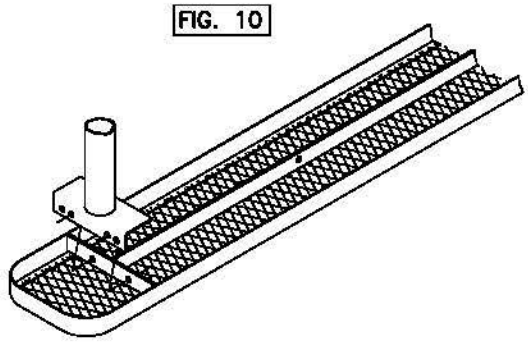
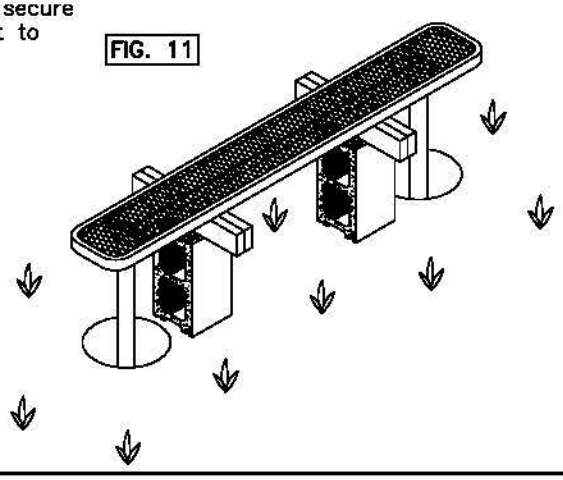
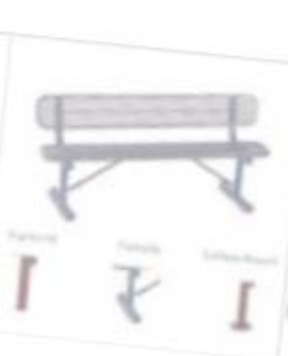


FIG. 11











model no:

SG205D, SG205P, SG206D, SG206P, SG207D, SG207P

SIGNATURE SERIES

6', 8' & 8' HANDICAP PICNIC TABLES – EXPANDED METAL & PERFORATED – MULTI–PEDESTAL INGROUND

customer service:

ASSEMBLERS: If you find any parts missing or damaged, or if you're having difficulty assembling your furniture/equipment, call us at:

* Before calling, have your product model number available.

1–800–253–8619 (Inside U.S.A.)
260–352–2102 (Outside U.S.A.)
Monday thru Friday,
8:00 AM – 4:30 PM Eastern Time
(EXCEPT HOLIDAYS)

maintenance:

Regular inspection and maintenance of all parts, and fasteners is necessary. Tighten all bolts and nuts. Inspect Tops, Seats, Legs, Braces and Fasteners periodically for wear or vandalism. Replace broken or worn parts immediately or take equipment out of service until repairs are made. Use genuine Wabash Valley replacement parts.

To restore plastisol coating to its luster after prolonged use, wash/rinse/dry and use Armor–All ® or similiar quality vinyl protectant.

KEEP THIS ASSEMBLY/SPECIFICATION SHEET FOR FUTURE REFERENCE.

specifications:

NOTE: We reserve the right to change specifications without notice.

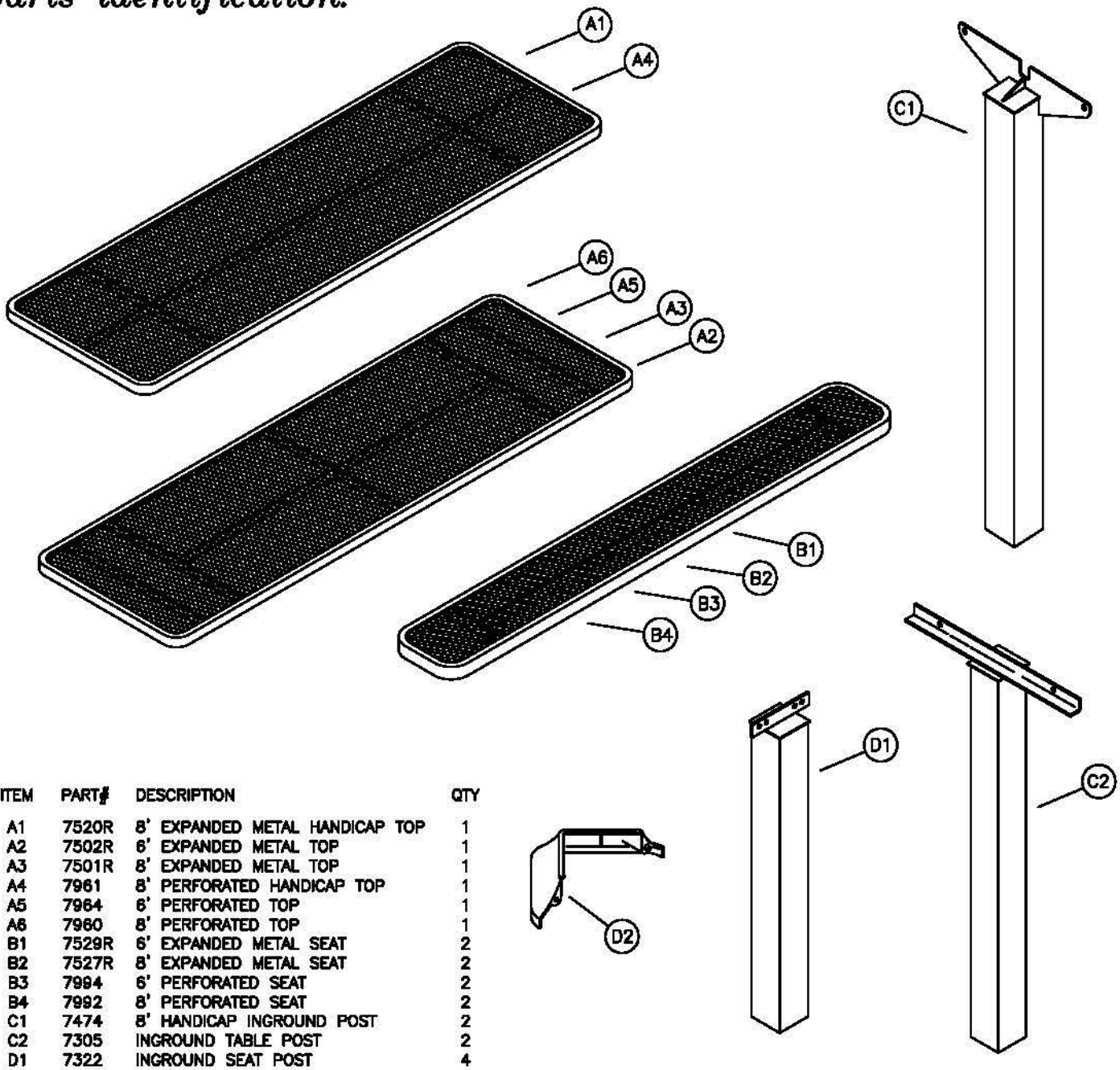
Heat fused poly–vinyl coating, finished on inner–metal structure, to an approximate 3/16" thickness.
Framework assemblies are finished with powder coating; electrostatically applied and oven cured according to powder manufacturer's specifications. Fasteners are stainless steel to resist corrosion.

TABLE FRAME:
Main support is constructed from a 4" x 4" x 11 gage galvanized structural steel square tubing. Seats inground post mounting brackets are 1/4" x 1 1/2" steel flat bar, the top plate is made of 10 gage sheet steel. Top's inground post mounting bracket is 7 gage sheet steel, the top plate is 14 gage sheet steel and the gusset is made of 1/8" x 1" strip steel.

TOP & SEAT:
Top and seat use fabricated 3/4" #9 expanded steel mesh and perforated uses 12 gage sheet metal. Framing consists of 10 gage mitered angles 3/4" x 1 3/4". Top and seat center brace and mounting brackets are 1/4" x 1 1/2" steel flat bar.

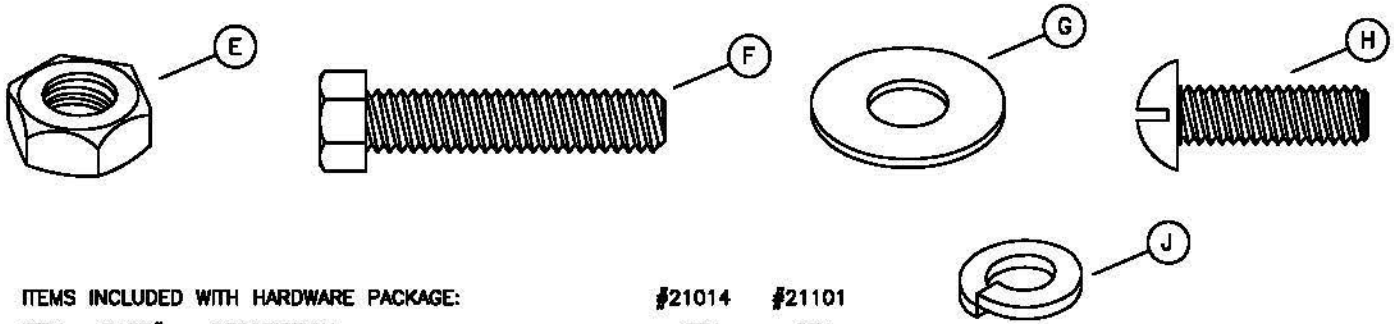
GENERAL:
SG205P and SG205D ground space requirements are 63 3/8" x 72 3/8". Table top is 30 3/8" wide and 30" to the top of the table. Seats are 10 3/8" wide and 19" to the top of seat. Corner radius is 3" to the outside.
SG206P and SG206D ground space requirements are 63 3/8" x 96 3/8". Table top is 30 3/8" wide and 30" to the top of the table. Seats are 10 3/8" wide and 19" to the top of seat. Corner radius is 3" to the outside.
SG207P and SG207D ground space requirements are 63 3/8" x 96 3/8". Table top is 30 3/8" wide and 31 1/2" to the top of the table. Seats are 10 3/8" wide and 19" to the top of seat. Corner radius is 3" to the outside.

parts identification:



ITEM	PART#	DESCRIPTION	QTY
A1	7520R	8' EXPANDED METAL HANDICAP TOP	1
A2	7502R	6' EXPANDED METAL TOP	1
A3	7501R	8' EXPANDED METAL TOP	1
A4	7961	8' PERFORATED HANDICAP TOP	1
A5	7964	6' PERFORATED TOP	1
A6	7960	8' PERFORATED TOP	1
B1	7529R	6' EXPANDED METAL SEAT	2
B2	7527R	8' EXPANDED METAL SEAT	2
B3	7994	6' PERFORATED SEAT	2
B4	7992	8' PERFORATED SEAT	2
C1	7474	8' HANDICAP INGROUND POST	2
C2	7305	INGROUND TABLE POST	2
D1	7322	INGROUND SEAT POST	4
D2	7151	MOUNTING PLATE COVER (OPTIONAL)	6 SETS

hardware identification:



ITEMS INCLUDED WITH HARDWARE PACKAGE:			#21014	#21101
ITEM	PART#	DESCRIPTION	QTY	QTY
E	17032	5/16-18 HEX FINISH NUTS - SS	4	0
F	17011	5/16-18 x 1 1/2" HEX HEAD BOLT - SS	4	0
G	17028	3/8" FLAT WASHER - SS	8	0
H	17052	1/4-20 x 1" MACHINE SCREW - SS	0	2
J	17050	5/16" SPLIT LOCK WASHER - SS	4	0

ASSEMBLY TOOLS REQUIRED

2 - 1/2" WRENCHES
1 - TAPE MEASURE
1 - 3' OR 6' LEVEL
1 - FLAT SCREW DRIVER

assembly procedures:

IMPORTANT: Assemblers should be reasonably skilled in the assembly of commercial grade/heavy duty fabricated steel equipment.

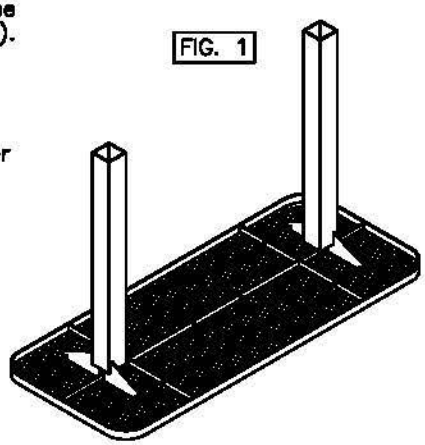
To ensure proper assembly, it is suggested that you take adequate time to locate and identify each part. To prevent scratching of the finished pieces, we recommend this unit to be assembled on a clean, flat, solid, surface with a drop cloth, allowing plenty of working room. Also please read the instructions and study the sketches very carefully. A little extra time spent before assembly will be well worth it in performing a complete, proper assembly. Please note that all parts have been precut and pre-drilled.

During the assembly process leave all bolts and nuts "finger tight", until the entire unit is completely assembled. This allows room for movement to level or adjust all seats, tops, benches, framework and braces if necessary. After final adjustment and leveling, permanently tighten all nuts, bolts and fasteners.

STEP 1
Invert the (A–) top so it's upside down on a flat surface. Attach each (C–) top's inground post to the outside of the top's mounting brackets, see FIG. 1. Use two, per each bracket, (F) and (E) using two (G) and one (J) per (F). Draw the fasteners to a snug fit with wrenches.

STEP 2
Invert both (B–) seats so they're upside down on a flat surface. Attach the four (D) seat's inground post to the outside of each seat's mounting brackets, see FIG. 2. Use two, per each bracket, (F) and (E) using two (G) and one (J) per (F). Draw the fasteners to a snug fit with wrenches.

FIG. 1



STEP 3
Prepare six foundation holes as shown on page four. The distance of holes, center to center, are shown in a diagram on the backside of this assembly instruction sheet.

STEP 4
Re-invert the table and seats to their topside up position and place them in the footing holes. Block the table and seats as shown in FIG. 3.

Before pouring concrete, make sure the table and seats are level horizontally as well as vertically and holds 29", for standard, or 31 1/2", for handicap, to the top of the table, and 19" to the top of the seats.

Pour concrete to form the footings and let cure for 48 hours.

STEP 5
Tighten all fasteners with wrenches.

If mounting plate covers (D2) are used, place halves around legs and secure with 2 (H) screws, see FIG. 4. Draw to a snug fit being careful not to over tighten.

FIG. 2

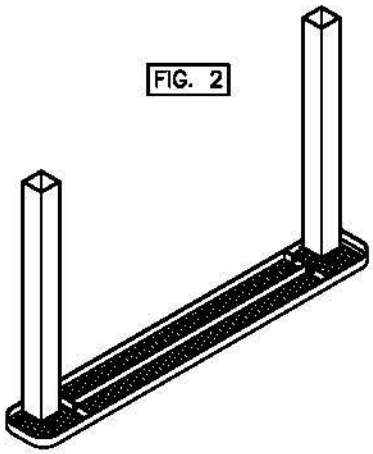


FIG. 3

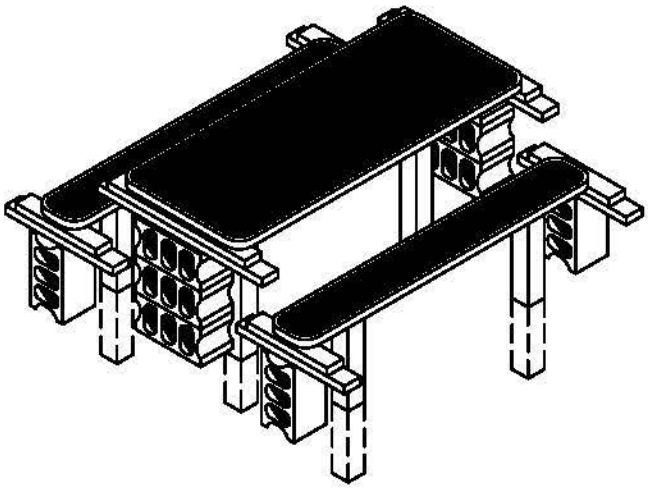
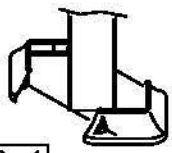


FIG. 4

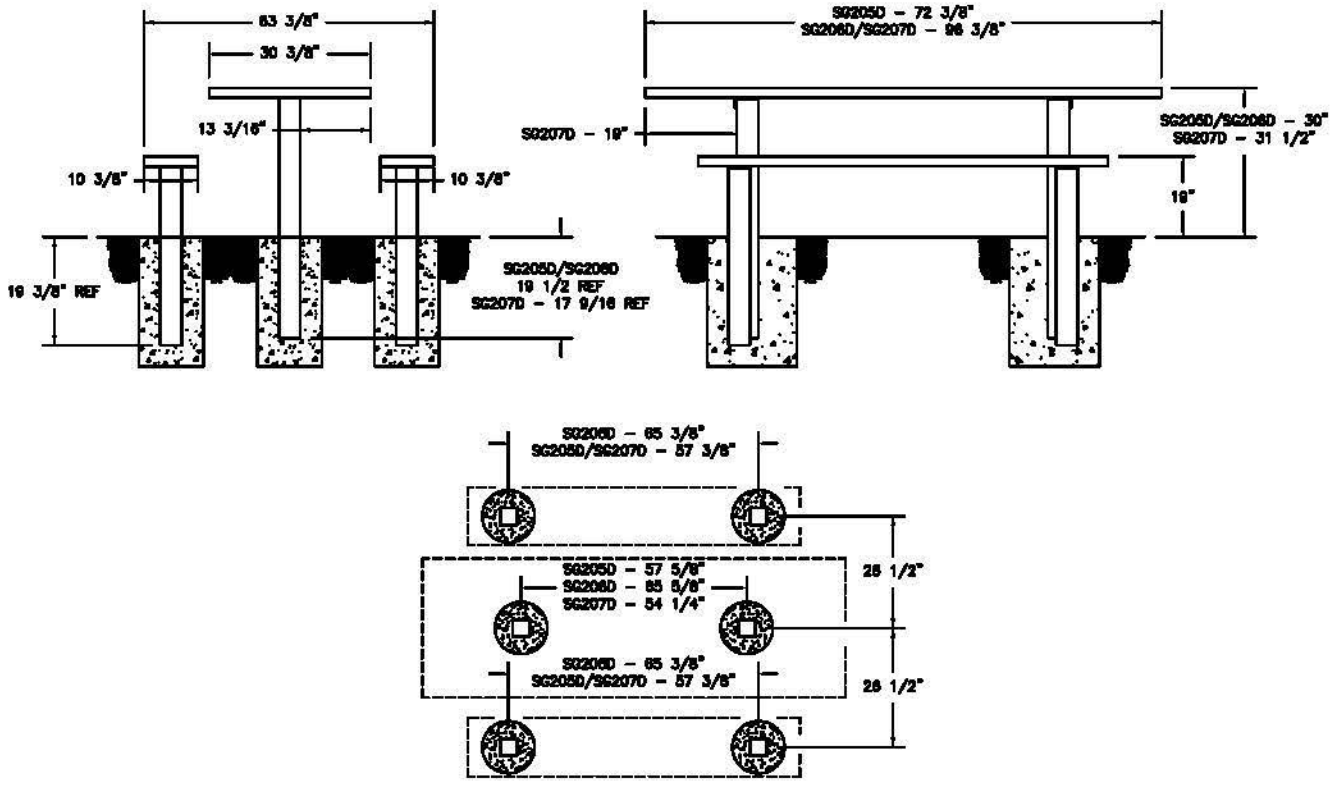


installation:

WARNING: The proper installation for Wabash Valley products may depend upon many factors unique to the site, location, or use of a particular product. Consult with your contractor or other professional to determine your specific installation requirements.

assembly procedures, cont'd:

product dimensions:



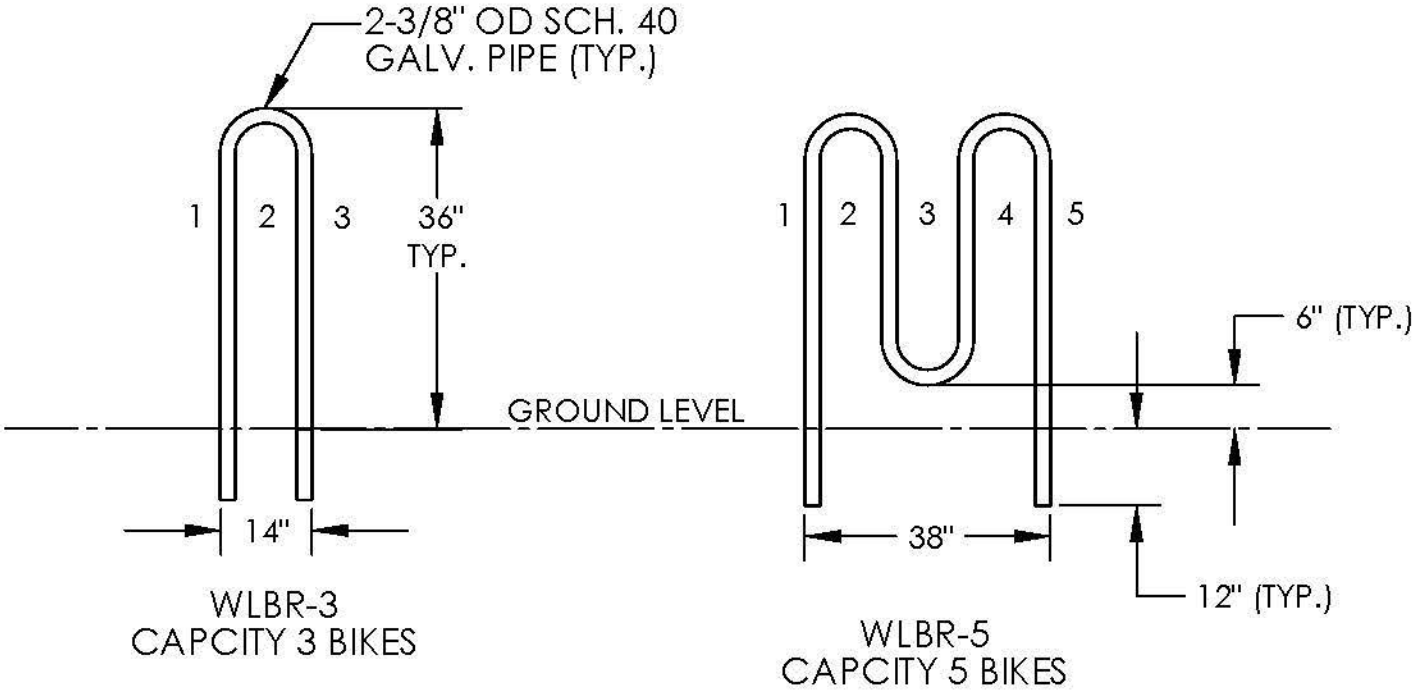


STEELCRAFT PRODUCTS

P.O. Box 90365 - Pasadena, CA 91109
PHN 626-798-7401 FAX 626-798-1482

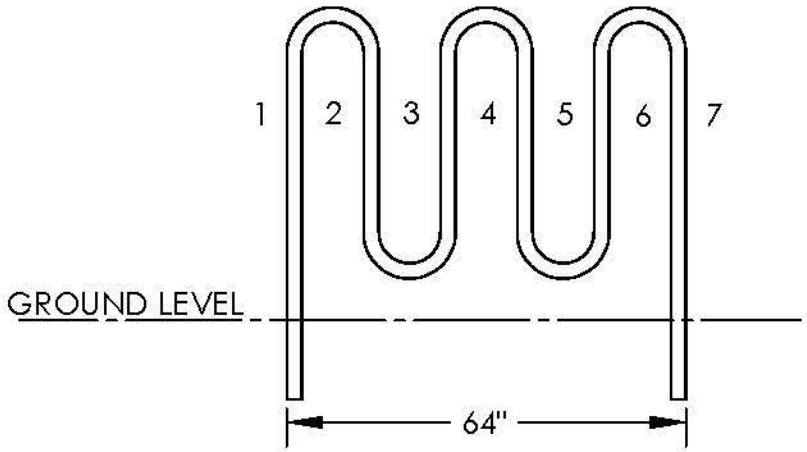
MODEL
WLBR
SERIES BIKE RACK

GALVANIZED OR POWDER COATED FINISH AVAILABLE

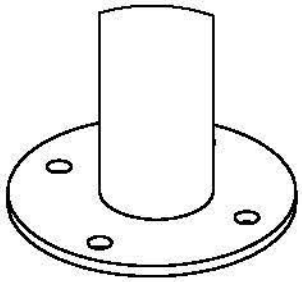


WLBR-3
CAPCITY 3 BIKES

WLBR-5
CAPCITY 5 BIKES



WLBR-7
CAPACITY 7 BIKES



SURFACE MOUNT
OPTION DETAIL
(4" X 1/2" ANCHOR BOLTS
SUPPLIED BY OTHERS)

INSTALLATION INSTRUCTIONS:

1. DIG HOLES IN PROPER LOCATION FOR A 6" DIA. X 12" DEEP CONC. FOOTING.
2. SUPPORT THE BIKE RACK SO IT IS PLUMB AND LEVEL (36" ABOVE GROUND LEVEL).
3. POUR CONCRETE INTO THE FOOTING HOLES AND ALLOW 48 hrs. BEFORE REMOVING THE SUPPORTS.

NOTE: SPECIFICATIONS ARE SUBJECT TO CHANGE

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STEELCRAFT PRODUCTS

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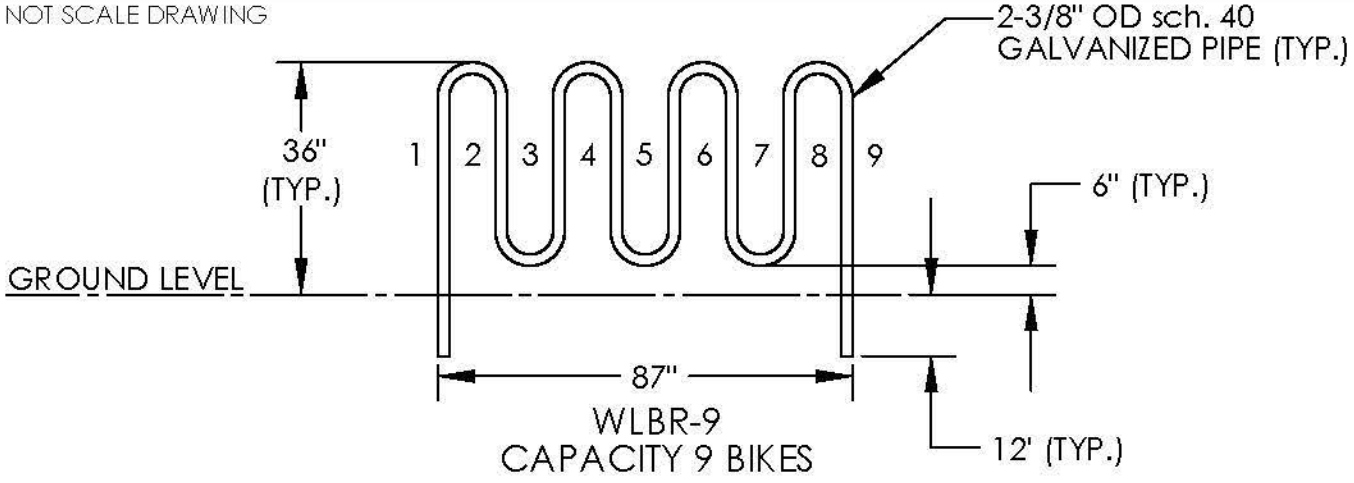
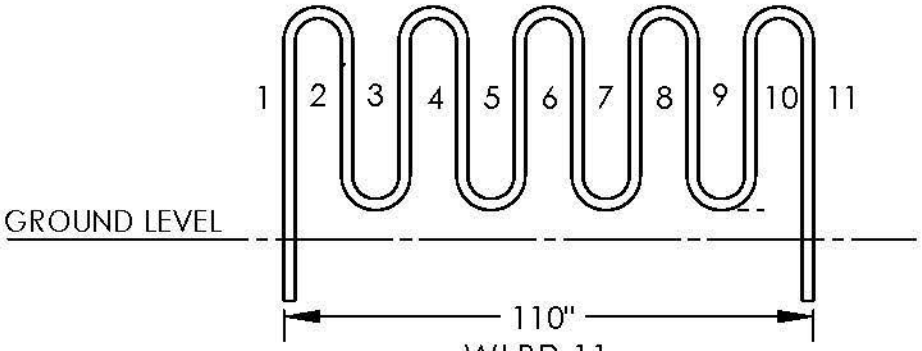
PHN 626-798-7401 FAX 626-798-1482

MODEL
WLBR
SERIES BIKE RACK

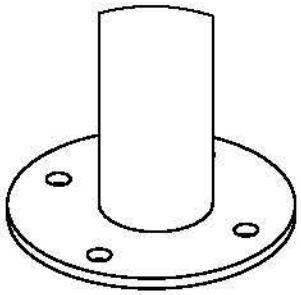
DO NOT SCALE DRAWING



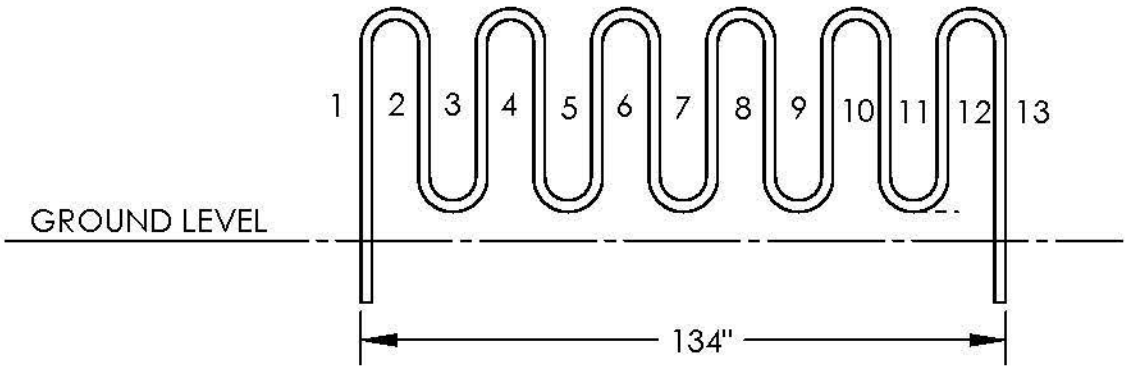
WLBR-9
CAPACITY 9 BIKES



WLBR-11
CAPACITY 11 BIKES



SURFACE MOUNT
OPTION DETAL
(4" X 1/2" ANCHOR BOLTS
SUPPLIED BY OTHERS)



WLBR-13
CAPACITY 13 BIKES

INSTALLATION INSTRUCTIONS:

1. DIG HOLES IN PROPER LOCATION FOR A 6" DIA. X 12" DEEP CONC. FOOTING.
2. SUPPORT THE BIKE RACK SO IT IS PLUMB AND LEVEL (36" ABOVE GROUND LEVEL).
3. POUR CONCRETE INTO THE FOOTING HOLES AND ALLOW 48 hrs. BEFORE REMOVING THE SUPPORTS.

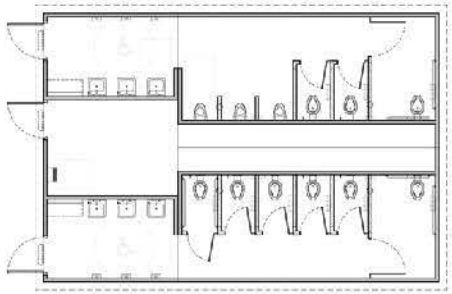
NOTE: SPECIFICATIONS ARE SUBJECT TO CHANGE

DO NOT SCALE DRAWING	DATE: 10/7/09	DRAWN BY: AFS

PROJECT REF#: 11169C-3/3/2022-0







FLOOR PLAN

SCALE: NOT TO SCALE

'RESTROOM – BUILDING 'C'

CONCESSION/
LOCKER BUILDING

ROSEVILLE, CAIFORNIA

ROSEVILLE SOCCER COMPLEX

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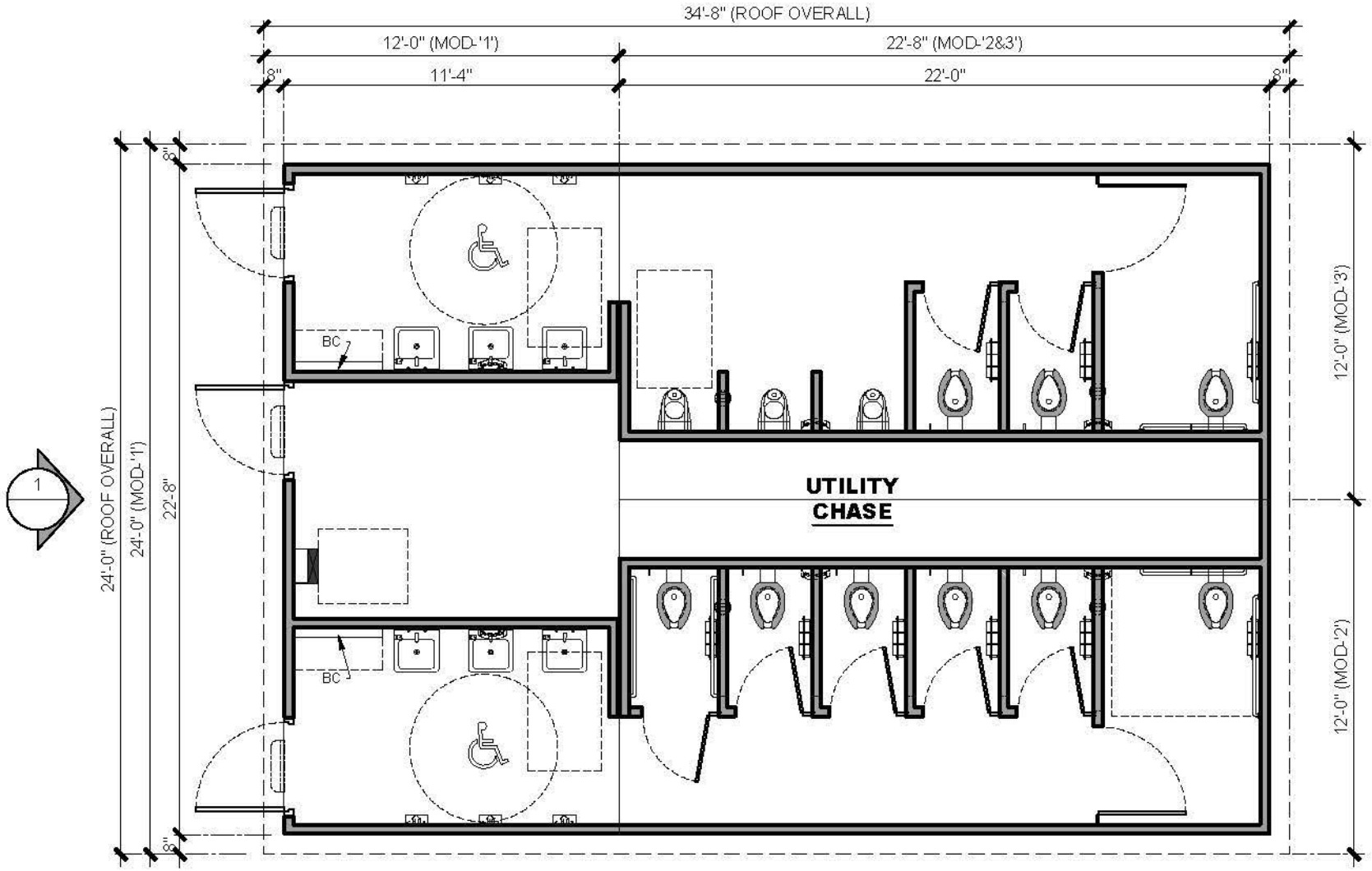
PROJECT REF#: *11169B-3/3/2022-0*



FLOOR PLAN

SCALE:3/16"=1'-0"

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BUILDING TYPE: **RESTROOM BUILDING - 'C'**	REVISION #: -	REVISION DATE:	SHEET#: A-1	
PROJECT: **ROSEVILLE SOCCER COMPLEX ROSEVILLE, CA**	PROJECT #: 11169C	DRAWN BY:	START DATE: 3/3/2022	MAX. PERSON/ HOUR: - -
		DRAWN BY: EOR		

Ph: 888-888-2060 | Fax: 888-888-1448

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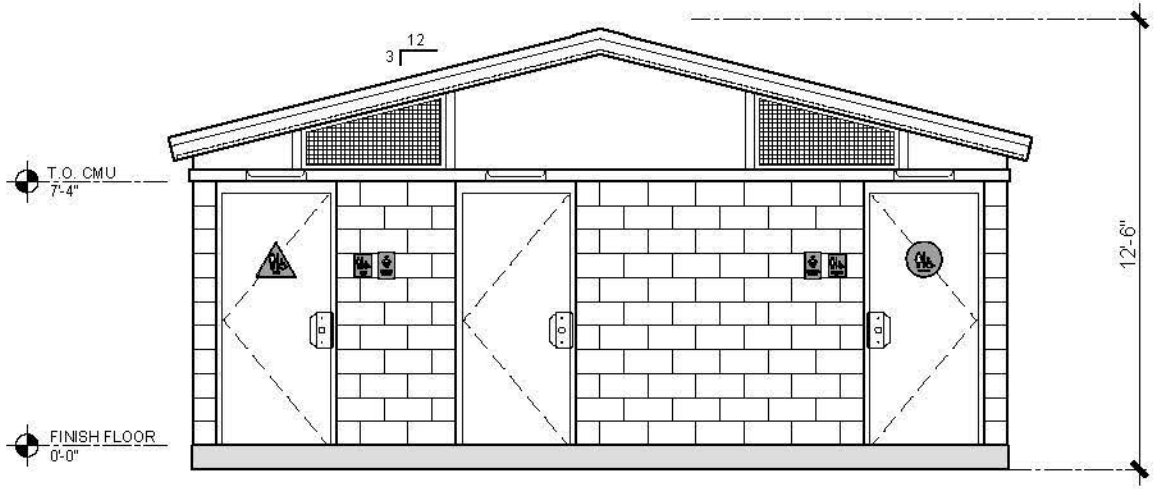
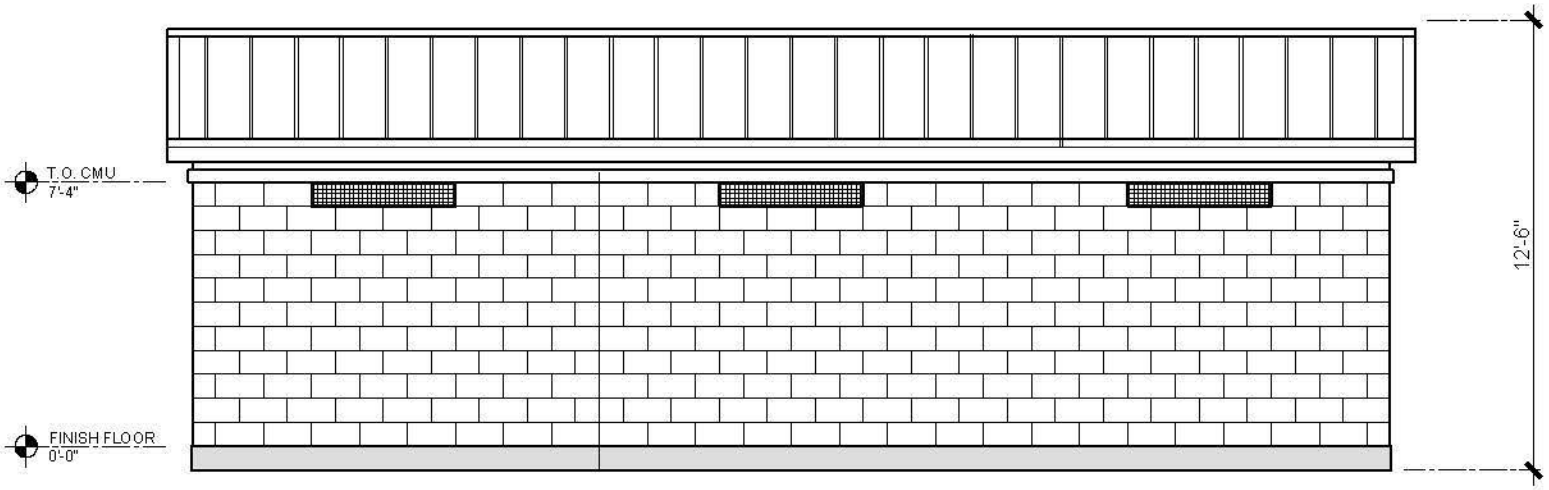


ELEVATION 1
SCALE: 3/16"=1'-0"



ELEVATION 2
SCALE: 3/16"=1'-0"

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BUILDING TYPE: **RESTROOM BUILDING - 'C'**	REVISION #: -	REVISION DATE:	SHEET#: A-2	
PROJECT: **ROSEVILLE SOCCER COMPLEX ROSEVILLE, CA**	PROJECT #: 11169C	DRAWN BY:	START DATE: 3/3/2022	MAX. PERSON / HOUR: - -
		DRAWN BY: EOR		

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FLOOR PLAN

SCALE: NOT TO SCALE

'TOURNAMENT'

CONCESSION/
STORAGE BUILDING

ROSEVILLE, CAIFORNIA

ROSEVILLE SOCCER COMPLEX

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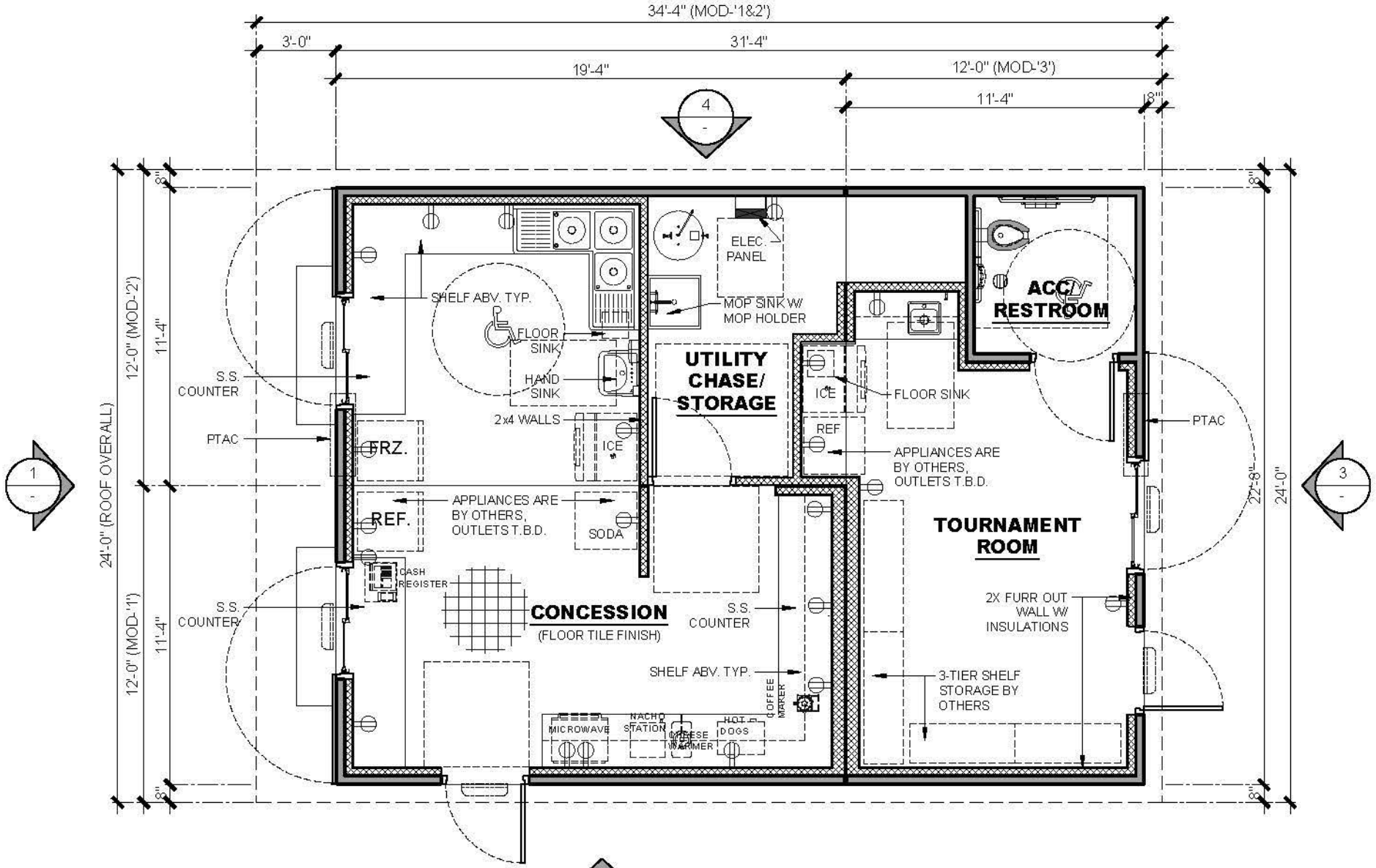
PROJECT REF#: *11169B-2/9/2022-1*



2 - **FLOOR PLAN**

SCALE: 3/16"=1'0"

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BUILDING TYPE: **CONCESSION/ STORAGE BUILDING (TOURNAMENT)**

PROJECT: **ROSEVILLE SOCCER COMPLEX**
ROSEVILLE, CA

REVISION #	REVISION DATE: 2/9/2022	SHEET#
1	DRAWN BY: EOR	A-1
PROJECT #: 11169B	START DATE: 2/8/2022	MAX. PERSON/ HOUR: - -
	DRAWN BY: EOR	

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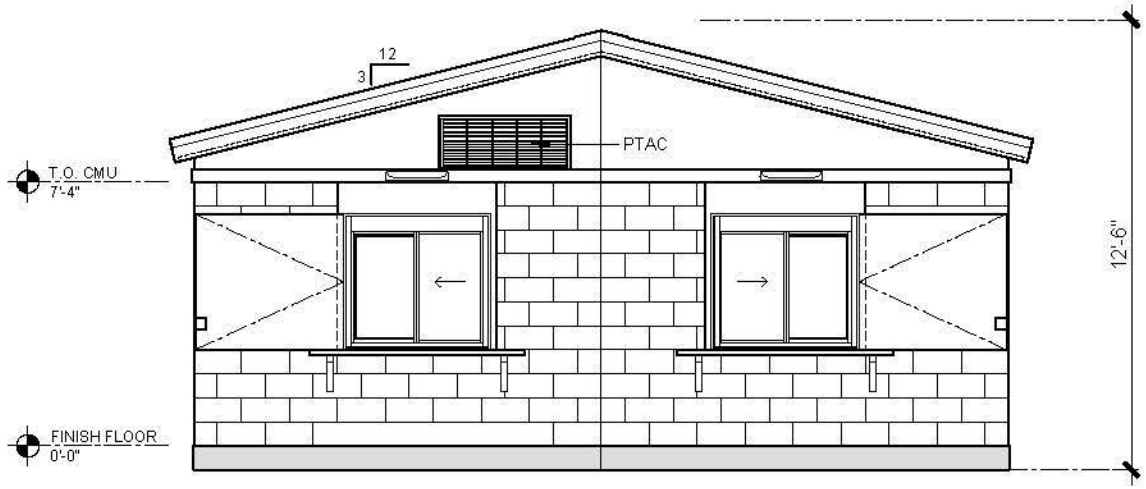
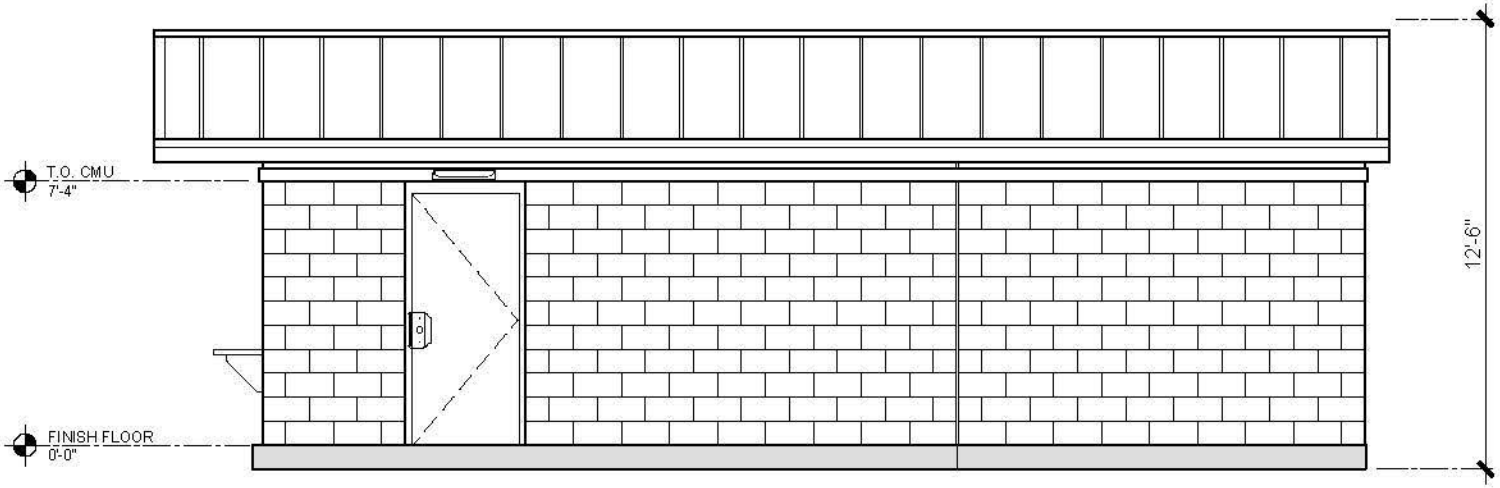


ELEVATION 1

SCALE: 3/16"=1'-0"



ELEVATION 2

SCALE: 3/16"=1'-0"

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BUILDING TYPE: **CONCESSION/ STORAGE BUILDING (TOURNAMENT)**

PROJECT: **ROSEVILLE SOCCER COMPLEX**
ROSEVILLE, CA

REVISION #	REVISION DATE: 2/9/2022	SHEET#
1	DRAWN BY: EOR	A-2
PROJECT #: 11169B	START DATE: 2/8/2022	MAX. PERSON/ HOUR: - -
	DRAWN BY: EOR	

Ph: 888-888-2080 | Fax: 888-888-1448

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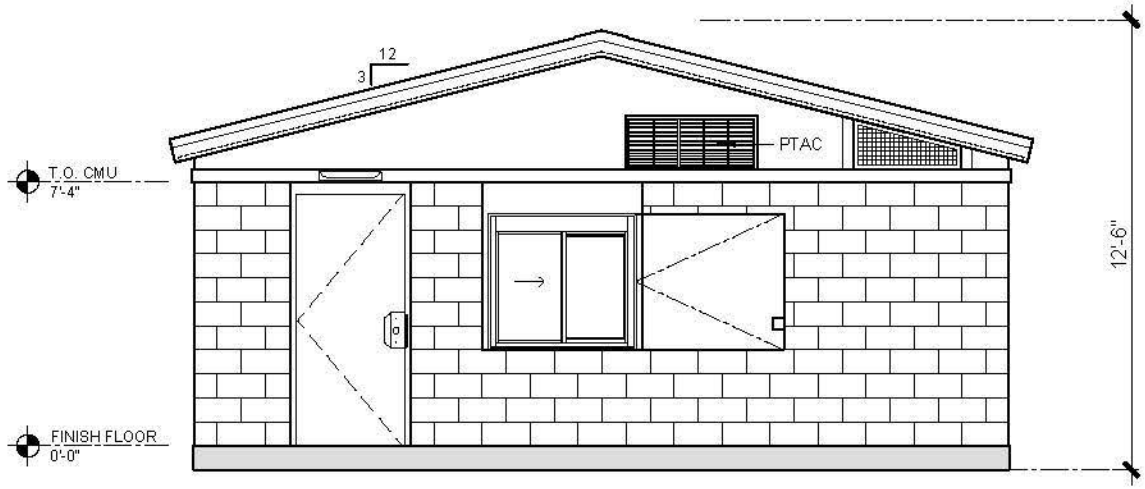
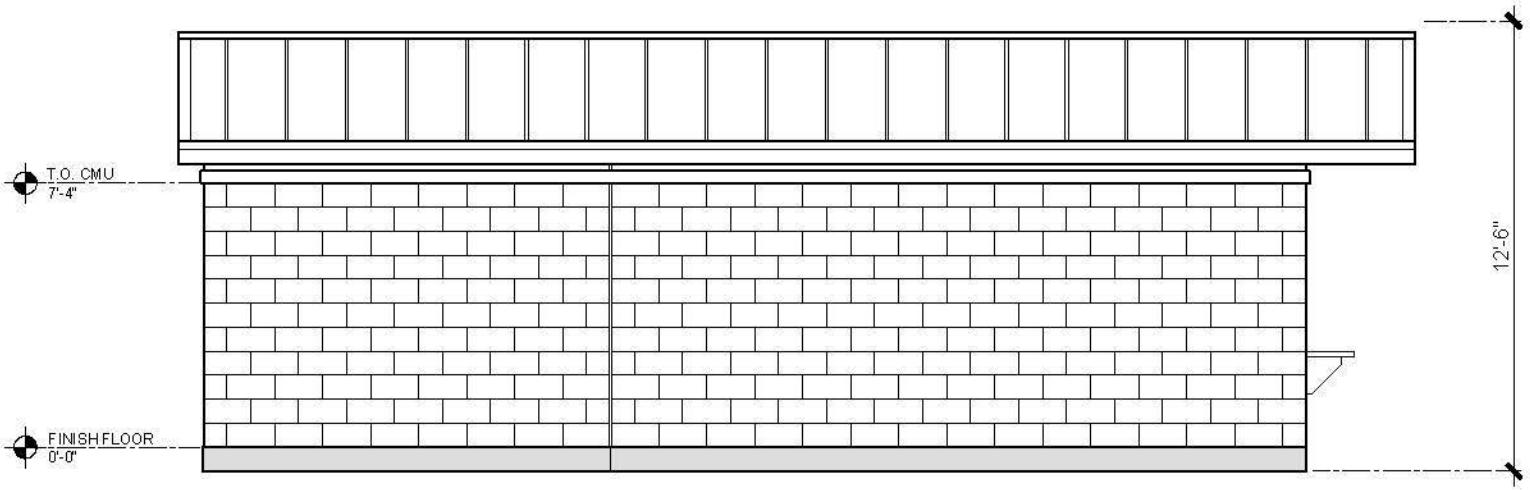


ELEVATION 3

SCALE: 3/16"=1'-0"



ELEVATION 4

SCALE: 3/16"=1'-0"

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BUILDING TYPE: **CONCESSION/ STORAGE BUILDING (TOURNAMENT)**

PROJECT: **ROSEVILLE SOCCER COMPLEX**
ROSEVILLE, CA

REVISION #	REVISION DATE: 2/9/2022	SHEET#
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PROJECT #: 11169B	START DATE: 2/8/2022	MAX. PERSON/ HOUR: - -
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PROJECT REF#: 11169A-2/9/2022-1







FLOOR PLAN

SCALE: NOT TO SCALE

'OFFICIALS LOUNGE'

CONCESSION/
LOCKER BUILDING

ROSEVILLE, CAIFORNIA

ROSEVILLE SOCCER COMPLEX

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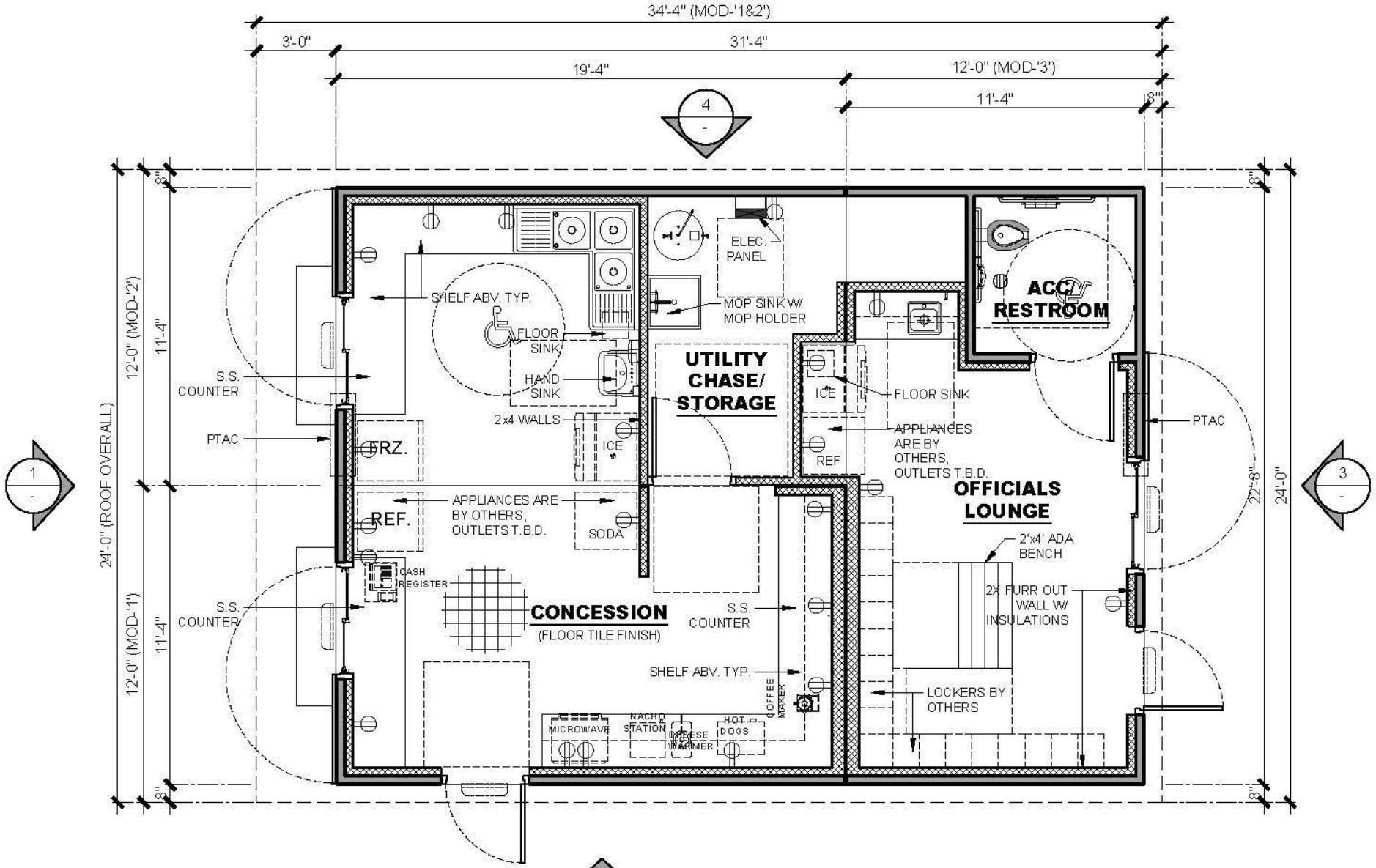

2 - **FLOOR PLAN**

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BUILDING TYPE: **CONCESSION/ LOCKER BUILDING (OFFICIALS LOUNGE)**

PROJECT: **ROSEVILLE SOCCER COMPLEX**
ROSEVILLE, CA

REVISION #	REVISION DATE: 2/9/2022	SHEET#
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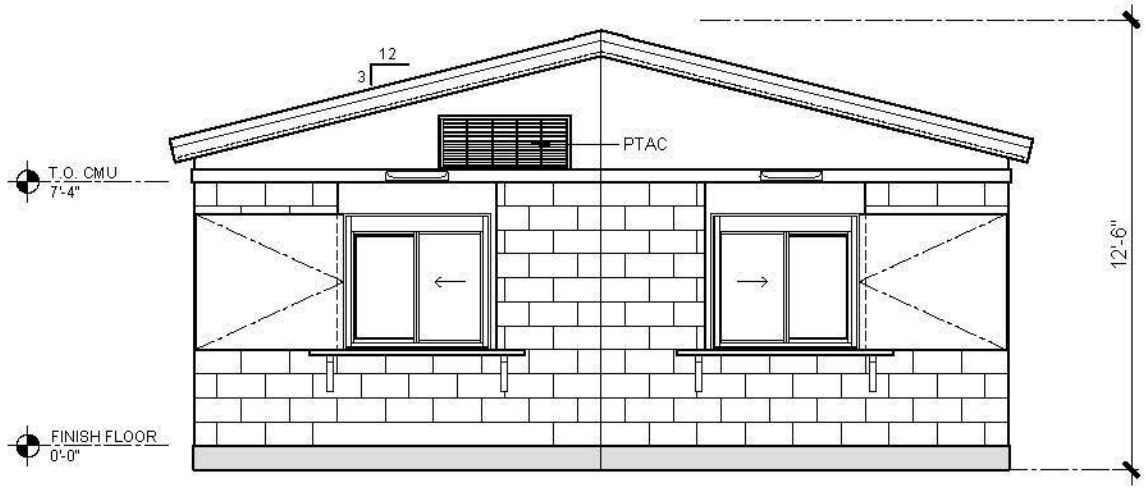
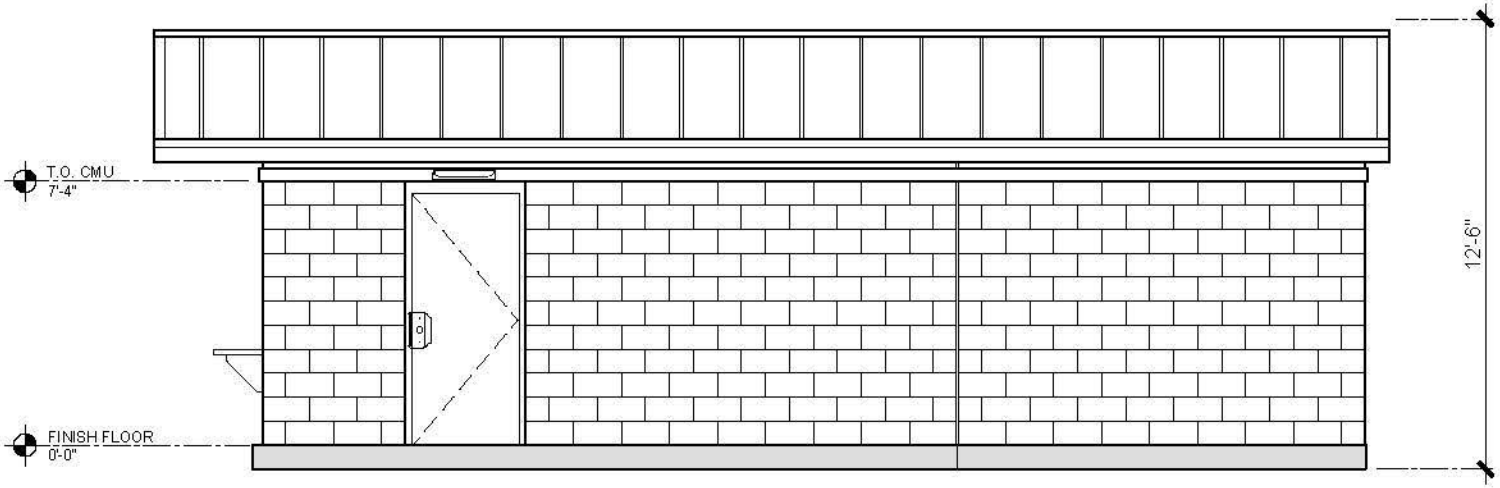


ELEVATION 1

SCALE: 3/16"=1'-0"



ELEVATION 2

SCALE: 3/16"=1'-0"

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BUILDING TYPE: **CONCESSION/ LOCKER BUILDING (OFFICIALS LOUNGE)**

PROJECT: **ROSEVILLE SOCCER COMPLEX**
ROSEVILLE, CA

REVISION #	REVISION DATE: 2/9/2022	SHEET#
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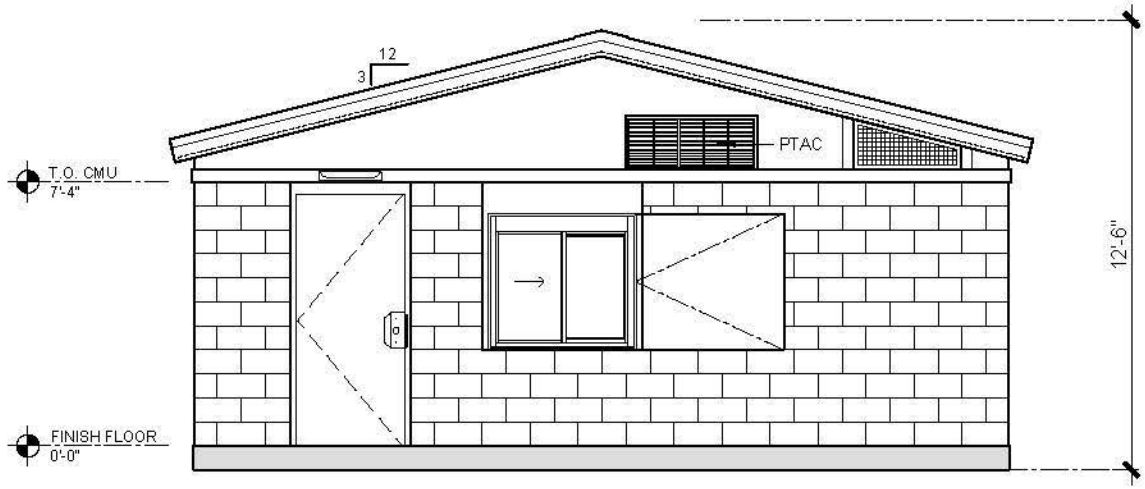
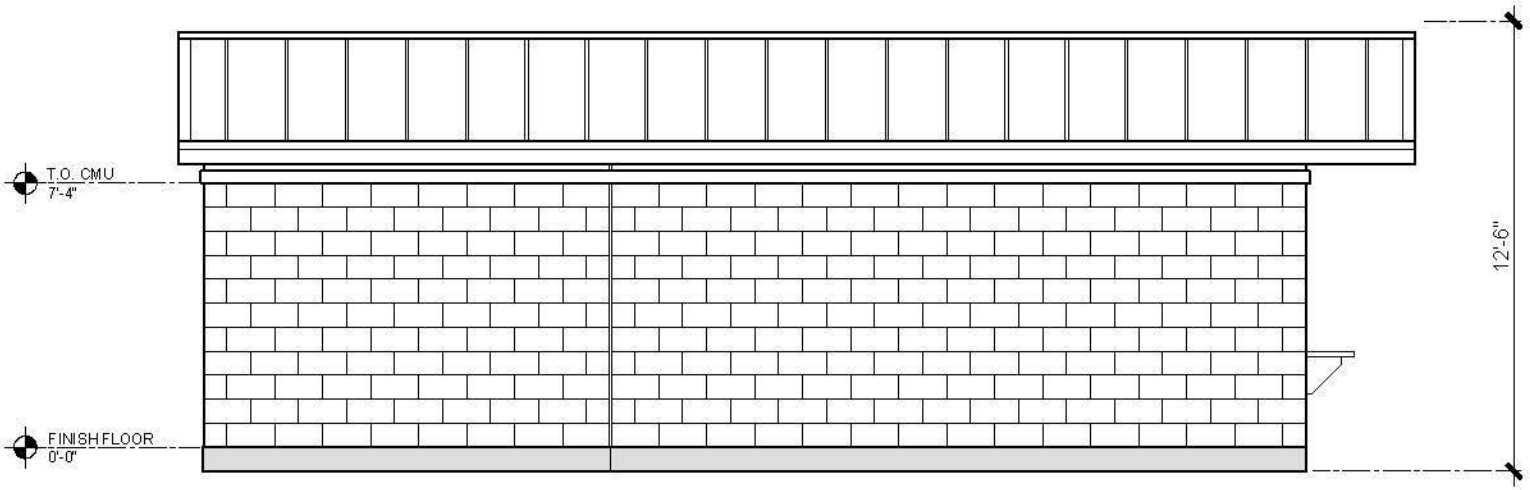


ELEVATION 3

SCALE: 3/16"=1'-0"



ELEVATION 4

SCALE: 3/16"=1'-0"

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BUILDING TYPE: **CONCESSION/ LOCKER BUILDING (OFFICIALS LOUNGE)**

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ROSEVILLE, CA

REVISION #	REVISION DATE: 2/9/2022	SHEET#
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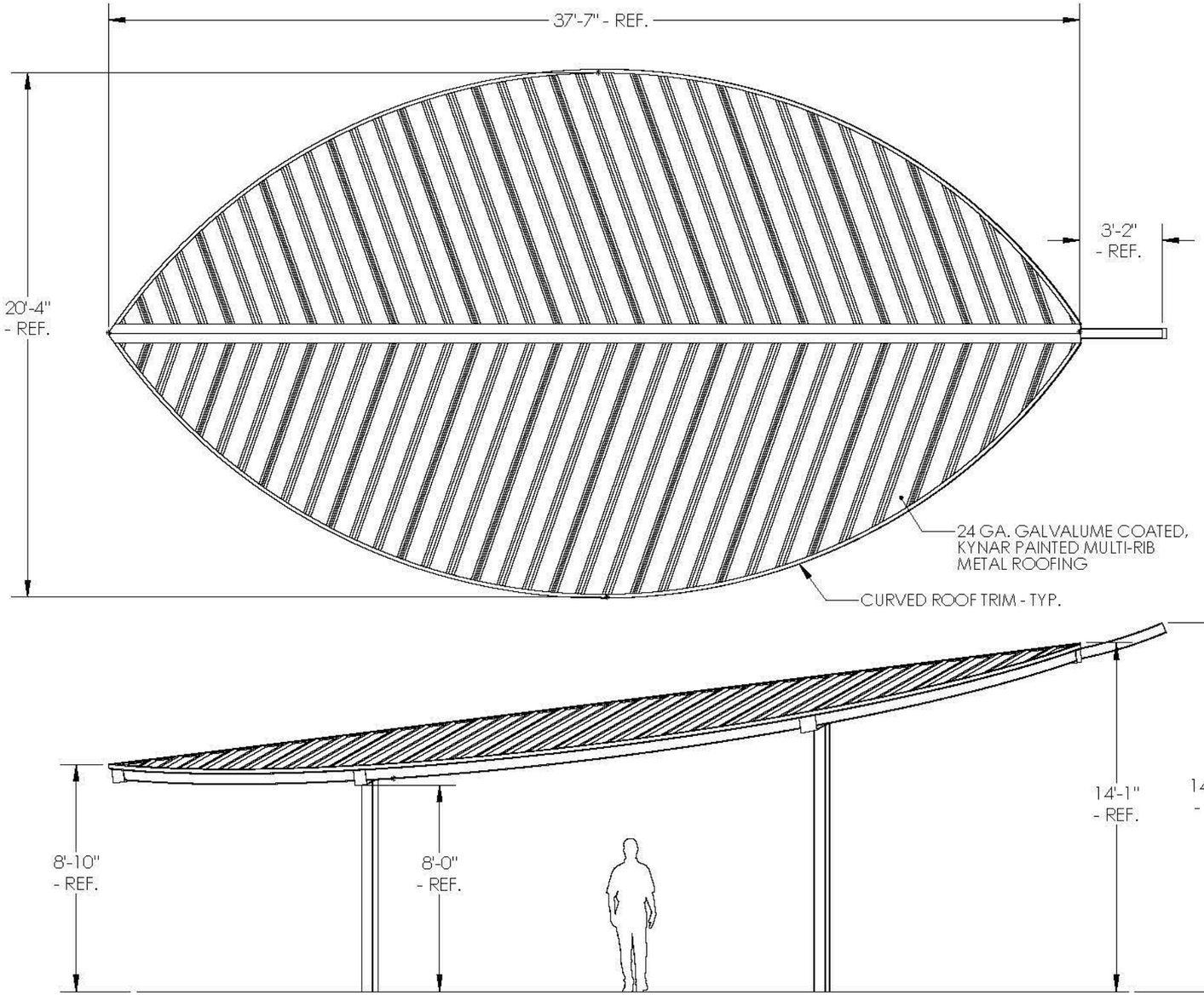





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ATTACHMENT E

AIR QUALITY AND GHG MODEL RUNS

Roseville Soccer Complex - Phase 1 Detailed Report

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1.1. Basic Project Information

Data Field	Value
Project Name	Roseville Soccer Complex - Phase 1
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.50
Precipitation (days)	7.80
Location	38.78909063723171, -121.3860119040587
County	Placer-Sacramento
City	Roseville
Air District	Placer County APCD
Air Basin	Sacramento Valley
TAZ	432
EDFZ	15
Electric Utility	Roseville Electric
Gas Utility	Pacific Gas & Electric

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
City Park	14.0	Acre	14.0	0.00	630,726	630,726	—	—
Parking Lot	574	Space	5.17	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.81	40.0	36.6	0.06	1.81	19.9	21.7	1.66	10.2	11.8	—	6,830	6,830	0.27	0.08	1.21	6,856
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.81	27.4	24.1	0.03	1.20	0.15	1.35	1.10	0.04	1.14	—	3,579	3,579	0.14	0.03	0.02	3,592
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.11	10.3	10.1	0.02	0.46	1.33	1.79	0.43	0.58	1.01	—	1,849	1,849	0.07	0.02	0.07	1,856
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.20	1.88	1.85	< 0.005	0.08	0.24	0.33	0.08	0.11	0.18	—	306	306	0.01	< 0.005	0.01	307
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	82.0	82.0	—	—	—	—	82.0	—	—	—	—	—	—	—	—	—	—
Unmit.	No	No	—	—	—	—	No	—	—	—	—	—	—	—	—	—	—

Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	82.0	82.0	—	—	—	—	82.0	—	—	—	—	—	—	—	—	—	—
Unmit.	No	No	—	—	—	—	No	—	—	—	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10,000
Unmit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	4.02	40.0	36.6	0.06	1.81	19.9	21.7	1.66	10.2	11.8	—	6,830	6,830	0.27	0.08	1.21	6,856
2024	8.81	11.2	13.1	0.02	0.50	0.14	0.53	0.46	0.04	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	2.90	27.4	24.1	0.03	1.20	0.15	1.35	1.10	0.04	1.14	—	3,579	3,579	0.14	0.03	0.02	3,592
2024	8.81	11.2	13.1	0.02	0.50	0.00	0.50	0.46	0.00	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	1.07	10.3	10.1	0.02	0.46	1.33	1.79	0.43	0.58	1.01	—	1,849	1,849	0.07	0.02	0.07	1,856
2024	1.11	5.33	6.28	0.01	0.24	0.01	0.25	0.22	< 0.005	0.22	—	1,127	1,127	0.05	0.01	—	1,131
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.20	1.88	1.85	< 0.005	0.08	0.24	0.33	0.08	0.11	0.18	—	306	306	0.01	< 0.005	0.01	307
2024	0.20	0.97	1.15	< 0.005	0.04	< 0.005	0.04	0.04	< 0.005	0.04	—	187	187	0.01	< 0.005	—	187

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	28.5	15.6	141	0.26	0.24	7.95	8.19	0.23	1.43	1.66	0.65	26,731	26,732	1.56	1.34	101	27,271
Mit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	24.1	18.2	133	0.24	0.24	7.95	8.19	0.23	1.43	1.66	0.65	24,516	24,517	1.91	1.47	2.62	25,005
Mit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.56	6.65	48.3	0.10	0.10	3.41	3.51	0.10	0.61	0.71	0.65	10,624	10,625	0.66	0.55	18.7	10,823
Mit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.56	1.21	8.81	0.02	0.02	0.62	0.64	0.02	0.11	0.13	0.11	1,759	1,759	0.11	0.09	3.09	1,792
Mit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	55.0	55.0	—	—	—	—	82.0	—	—	—	—	—	—	—	—	—	—
Unmit.	No	No	—	—	—	—	No	—	—	—	—	—	—	—	—	—	—
Mit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	55.0	55.0	—	—	—	—	82.0	—	—	—	—	—	—	—	—	—	—
Unmit.	No	No	—	—	—	—	No	—	—	—	—	—	—	—	—	—	—
Mit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,100
Unmit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Yes
Mit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	27.8	15.6	141	0.26	0.24	7.95	8.19	0.23	1.43	1.66	—	26,625	26,625	1.49	1.34	101	27,163
Area	0.69	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	29.1	29.1	< 0.005	< 0.005	—	29.2
Water	—	—	—	—	—	—	—	—	—	—	0.00	76.3	76.3	0.01	< 0.005	—	76.6
Waste	—	—	—	—	—	—	—	—	—	—	0.65	0.00	0.65	0.06	0.00	—	2.27
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	28.5	15.6	141	0.26	0.24	7.95	8.19	0.23	1.43	1.66	0.65	26,731	26,732	1.56	1.34	101	27,271
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	23.4	18.2	133	0.24	0.24	7.95	8.19	0.23	1.43	1.66	—	24,411	24,411	1.84	1.47	2.62	24,897
Area	0.69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	29.1	29.1	< 0.005	< 0.005	—	29.2
Water	—	—	—	—	—	—	—	—	—	—	0.00	76.3	76.3	0.01	< 0.005	—	76.6
Waste	—	—	—	—	—	—	—	—	—	—	0.65	0.00	0.65	0.06	0.00	—	2.27
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	24.1	18.2	133	0.24	0.24	7.95	8.19	0.23	1.43	1.66	0.65	24,516	24,517	1.91	1.47	2.62	25,005
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.87	6.65	48.3	0.10	0.10	3.41	3.51	0.10	0.61	0.71	—	10,519	10,519	0.59	0.55	18.7	10,715
Area	0.69	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	29.1	29.1	< 0.005	< 0.005	—	29.2
Water	—	—	—	—	—	—	—	—	—	—	0.00	76.3	76.3	0.01	< 0.005	—	76.6

Waste	—	—	—	—	—	—	—	—	—	—	0.65	0.00	0.65	0.06	0.00	—	2.27
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	8.56	6.65	48.3	0.10	0.10	3.41	3.51	0.10	0.61	0.71	0.65	10,624	10,625	0.66	0.55	18.7	10,823
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.44	1.21	8.81	0.02	0.02	0.62	0.64	0.02	0.11	0.13	—	1,741	1,741	0.10	0.09	3.09	1,774
Area	0.13	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4.82	4.82	< 0.005	< 0.005	—	4.84
Water	—	—	—	—	—	—	—	—	—	—	0.00	12.6	12.6	< 0.005	< 0.005	—	12.7
Waste	—	—	—	—	—	—	—	—	—	—	0.11	0.00	0.11	0.01	0.00	—	0.38
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	1.56	1.21	8.81	0.02	0.02	0.62	0.64	0.02	0.11	0.13	0.11	1,759	1,759	0.11	0.09	3.09	1,792

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

3. Construction Emissions Details

3.1. Demolition (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.84	27.3	23.5	0.03	1.20	—	1.20	1.10	—	1.10	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.84	27.3	23.5	0.03	1.20	—	1.20	1.10	—	1.10	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	1.50	1.29	< 0.005	0.07	—	0.07	0.06	—	0.06	—	188	188	0.01	< 0.005	—	188
Demolition	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.27	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.1	31.1	< 0.005	< 0.005	—	31.2
Demolition	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.04	0.90	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	174	174	< 0.005	0.01	0.73	177
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.06	0.66	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	154	154	< 0.005	0.01	0.02	155
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	8.64	8.64	< 0.005	< 0.005	0.02	8.76
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	1.43	1.43	< 0.005	< 0.005	< 0.005	1.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Demolition (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

3.3. Site Preparation (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	3.95	39.7	35.5	0.05	1.81	—	1.81	1.66	—	1.66	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.09	0.97	< 0.005	0.05	—	0.05	0.05	—	0.05	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement	—	—	—	—	—	0.54	0.54	—	0.28	0.28	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.20	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	0.10	0.10	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.05	1.05	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	203	203	< 0.005	0.01	0.85	206

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.25	0.04	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	177	177	< 0.005	0.03	0.36	186
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	5.04	5.04	< 0.005	< 0.005	0.01	5.11
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.85	4.85	< 0.005	< 0.005	< 0.005	5.08
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.80	0.80	< 0.005	< 0.005	< 0.005	0.84

3.4. Site Preparation (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

3.5. Grading (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.72	37.3	31.4	0.06	1.59	—	1.59	1.47	—	1.47	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	3.07	2.58	0.01	0.13	—	0.13	0.12	—	0.12	—	542	542	0.02	< 0.005	—	544

Dust From Material Movement	—	—	—	—	—	0.76	0.76	—	0.30	0.30	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.56	0.47	< 0.005	0.02	—	0.02	0.02	—	0.02	—	89.8	89.8	< 0.005	< 0.005	—	90.1
Dust From Material Movement	—	—	—	—	—	0.14	0.14	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	1.20	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	232	232	< 0.005	0.01	0.97	235
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	17.3	17.3	< 0.005	< 0.005	0.03	17.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	2.86	2.86	< 0.005	< 0.005	0.01	2.90
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Grading (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

3.7. Building Construction (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	11.8	13.2	0.02	0.55	—	0.55	0.51	—	0.51	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	11.8	13.2	0.02	0.55	—	0.55	0.51	—	0.51	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49	4.62	5.16	0.01	0.22	—	0.22	0.20	—	0.20	—	938	938	0.04	0.01	—	942
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.84	0.94	< 0.005	0.04	—	0.04	0.04	—	0.04	—	155	155	0.01	< 0.005	—	156
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

3.9. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	4.85	5.67	0.01	0.22	—	0.22	0.20	—	0.20	—	1,037	1,037	0.04	0.01	—	1,040
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.89	1.04	< 0.005	0.04	—	0.04	0.04	—	0.04	—	172	172	0.01	< 0.005	—	172
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

3.10. Building Construction (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

3.11. Paving (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	1.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.43	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

3.12. Paving (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

3.13. Architectural Coating (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	8.67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	8.67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architectural Coatings	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

3.14. Architectural Coating (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	29.1	29.1	< 0.005	< 0.005	—	29.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	29.1	29.1	< 0.005	< 0.005	—	29.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	29.1	29.1	< 0.005	< 0.005	—	29.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	29.1	29.1	< 0.005	< 0.005	—	29.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	4.82	4.82	< 0.005	< 0.005	—	4.84
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	4.82	4.82	< 0.005	< 0.005	—	4.84

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	8.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	0.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	9.36	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	8.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.21	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	0.00	76.3	76.3	0.01	< 0.005	—	76.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	76.3	76.3	0.01	< 0.005	—	76.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	0.00	76.3	76.3	0.01	< 0.005	—	76.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	76.3	76.3	0.01	< 0.005	—	76.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

City Park	—	—	—	—	—	—	—	—	—	—	0.00	12.6	12.6	< 0.005	< 0.005	—	12.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	12.6	12.6	< 0.005	< 0.005	—	12.7

4.4.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	0.65	0.00	0.65	0.06	0.00	—	2.27
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	0.65	0.00	0.65	0.06	0.00	—	2.27
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	0.65	0.00	0.65	0.06	0.00	—	2.27
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.65	0.00	0.65	0.06	0.00	—	2.27
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	0.11	0.00	0.11	0.01	0.00	—	0.38
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.11	0.00	0.11	0.01	0.00	—	0.38

4.5.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	3/20/2023	4/17/2023	5.00	20.0	—
Site Preparation	Site Preparation	4/18/2023	5/2/2023	5.00	10.0	—
Grading	Grading	5/3/2023	6/14/2023	5.00	30.0	—

Building Construction	Building Construction	6/15/2023	8/8/2024	5.00	300	—
Paving	Paving	8/9/2024	9/6/2024	5.00	20.0	—
Architectural Coating	Architectural Coating	9/7/2024	10/5/2024	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36

Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	14.3	LDA,LDT1,LDT2
Demolition	Vendor	—	8.80	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.80	HHDT,MHDT
Site Preparation	Hauling	2.30	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	14.3	LDA,LDT1,LDT2

Building Construction	Vendor	0.00	8.80	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	28,687	9,562	13,502

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	0.00	—
Site Preparation	0.00	178	15.0	0.00	—
Grading	0.00	0.00	90.0	0.00	—
Paving	0.00	0.00	0.00	0.00	8.17

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
City Park	3.00	100%
Parking Lot	5.17	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	471	0.03	< 0.005
2024	0.00	446	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	3,840	6,400	3,840	734,171	28,251	28,251	28,251	4,419,264

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	—	—	—	—	—	—	—	—

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	28,687	9,562	13,502

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
City Park	23,808	446	0.0330	0.0040	0.00
Parking Lot	0.00	446	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
City Park	0.00	38,688,366
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)

City Park	1.20	0.00
Parking Lot	0.00	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	26.6	annual days of extreme heat
Extreme Precipitation	5.85	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A

Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	63.7
AQ-PM	15.1
AQ-DPM	14.1
Drinking Water	39.7
Lead Risk Housing	5.49
Pesticides	84.3
Toxic Releases	16.8
Traffic	5.90
Effect Indicators	—
CleanUp Sites	40.8
Groundwater	76.6
Haz Waste Facilities/Generators	78.8
Impaired Water Bodies	87.0
Solid Waste	97.9

Sensitive Population	—
Asthma	26.1
Cardio-vascular	64.3
Low Birth Weights	9.64
Socioeconomic Factor Indicators	—
Education	26.9
Housing	10.8
Linguistic	27.3
Poverty	30.9
Unemployment	22.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	73.68150905
Employed	52.68831002
Education	—
Bachelor's or higher	68.40754523
High school enrollment	5.671756705
Preschool enrollment	30.89952521
Transportation	—
Auto Access	54.54895419
Active commuting	15.8475555
Social	—
2-parent households	79.26344155
Voting	94.30257924

Neighborhood	—
Alcohol availability	92.66007956
Park access	11.4718337
Retail density	3.06685487
Supermarket access	2.399589375
Tree canopy	10.02181445
Housing	—
Homeownership	81.9196715
Housing habitability	62.8127807
Low-inc homeowner severe housing cost burden	58.02643398
Low-inc renter severe housing cost burden	14.53868857
Uncrowded housing	58.74502759
Health Outcomes	—
Insured adults	93.45566534
Arthritis	71.8
Asthma ER Admissions	71.5
High Blood Pressure	85.1
Cancer (excluding skin)	40.8
Asthma	65.7
Coronary Heart Disease	85.5
Chronic Obstructive Pulmonary Disease	81.8
Diagnosed Diabetes	91.2
Life Expectancy at Birth	75.3
Cognitively Disabled	96.3
Physically Disabled	86.7
Heart Attack ER Admissions	61.3
Mental Health Not Good	73.6

Chronic Kidney Disease	90.3
Obesity	70.2
Pedestrian Injuries	44.4
Physical Health Not Good	87.1
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	11.9
Current Smoker	64.6
No Leisure Time for Physical Activity	81.2
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	0.5
Elderly	55.1
English Speaking	69.8
Foreign-born	37.6
Outdoor Workers	58.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	79.6
Traffic Density	4.8
Traffic Access	23.0
Other Indices	—
Hardship	39.8
Other Decision Support	—
2016 Voting	91.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	63.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health and Equity Evaluation Scorecard not completed.

8. User Changes to Default Data

Screen	Justification
Construction: Paving	Non-parking lot paved areas (internal roads/walkways)
Operations: Energy Use	Based on energy study.
Operations: Water and Waste Water	Based on project description.

Roseville Soccer Complex - Phase 2 Detailed Report

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1.1. Basic Project Information

Data Field	Value
Project Name	Roseville Soccer Complex - Phase 2
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.50
Precipitation (days)	7.80
Location	38.78909063723171, -121.3860119040587
County	Placer-Sacramento
City	Roseville
Air District	Placer County APCD
Air Basin	Sacramento Valley
TAZ	432
EDFZ	15
Electric Utility	Roseville Electric
Gas Utility	Pacific Gas & Electric

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
City Park	4.00	Acre	4.00	0.00	174,240	174,240	—	—
Parking Lot	389	Space	3.50	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.57	31.6	30.2	0.06	1.37	19.8	21.2	1.26	10.1	11.4	—	6,748	6,748	0.27	0.05	—	6,771
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.40	22.2	19.9	0.03	0.92	0.14	1.06	0.84	0.04	0.88	—	3,425	3,425	0.14	0.03	—	3,437
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.87	8.10	8.98	0.02	0.34	1.07	1.40	0.31	0.48	0.79	—	1,707	1,707	0.07	0.01	—	1,712
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.16	1.48	1.64	< 0.005	0.06	0.19	0.26	0.06	0.09	0.14	—	283	283	0.01	< 0.005	—	284
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	82.0	82.0	—	—	—	—	82.0	—	—	—	—	—	—	—	—	—	—
Unmit.	No	No	—	—	—	—	No	—	—	—	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	82.0	82.0	—	—	—	—	82.0	—	—	—	—	—	—	—	—	—	—

Unmit.	No	No	—	—	—	—	No	—	—	—	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10,000
Unmit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.31	31.6	30.2	0.06	1.37	19.8	21.2	1.26	10.1	11.4	—	6,748	6,748	0.27	0.05	—	6,771
2026	3.57	9.85	13.0	0.02	0.38	0.14	0.46	0.35	0.04	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.40	22.2	19.9	0.03	0.92	0.14	1.06	0.84	0.04	0.88	—	3,425	3,425	0.14	0.03	—	3,437
2026	1.07	9.85	13.0	0.02	0.38	0.00	0.38	0.35	0.00	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.87	8.10	8.98	0.02	0.34	1.07	1.40	0.31	0.48	0.79	—	1,707	1,707	0.07	0.01	—	1,712
2026	0.49	2.54	3.37	0.01	0.10	0.01	0.11	0.09	< 0.005	0.09	—	601	601	0.02	< 0.005	—	604
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.16	1.48	1.64	< 0.005	0.06	0.19	0.26	0.06	0.09	0.14	—	283	283	0.01	< 0.005	—	284
2026	0.09	0.46	0.62	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	99.6	99.6	< 0.005	< 0.005	—	99.9

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.48	3.41	31.8	0.06	0.05	1.98	2.04	0.05	0.36	0.41	0.19	6,403	6,403	0.36	0.32	20.7	6,527
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.55	3.97	30.1	0.06	0.05	1.98	2.04	0.05	0.36	0.41	0.19	5,874	5,874	0.43	0.35	0.54	5,988
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.95	1.45	10.9	0.02	0.02	0.85	0.87	0.02	0.15	0.17	0.19	2,543	2,544	0.15	0.13	3.83	2,590
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.36	0.26	2.00	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	0.03	421	421	0.03	0.02	0.63	429
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	55.0	55.0	—	—	—	—	82.0	—	—	—	—	—	—	—	—	—	—
Unmit.	No	No	—	—	—	—	No	—	—	—	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	55.0	55.0	—	—	—	—	82.0	—	—	—	—	—	—	—	—	—	—
Unmit.	No	No	—	—	—	—	No	—	—	—	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,100
Unmit.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.35	3.41	31.8	0.06	0.05	1.98	2.04	0.05	0.36	0.41	—	6,381	6,381	0.34	0.32	20.7	6,504
Area	0.13	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	6.12	6.12	< 0.005	< 0.005	—	6.15
Water	—	—	—	—	—	—	—	—	—	—	0.00	16.0	16.0	< 0.005	< 0.005	—	16.1
Waste	—	—	—	—	—	—	—	—	—	—	0.19	0.00	0.19	0.02	0.00	—	0.65
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	6.48	3.41	31.8	0.06	0.05	1.98	2.04	0.05	0.36	0.41	0.19	6,403	6,403	0.36	0.32	20.7	6,527
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.42	3.97	30.1	0.06	0.05	1.98	2.04	0.05	0.36	0.41	—	5,852	5,852	0.41	0.35	0.54	5,965
Area	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	6.12	6.12	< 0.005	< 0.005	—	6.15
Water	—	—	—	—	—	—	—	—	—	—	0.00	16.0	16.0	< 0.005	< 0.005	—	16.1
Waste	—	—	—	—	—	—	—	—	—	—	0.19	0.00	0.19	0.02	0.00	—	0.65
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	5.55	3.97	30.1	0.06	0.05	1.98	2.04	0.05	0.36	0.41	0.19	5,874	5,874	0.43	0.35	0.54	5,988
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.82	1.45	10.9	0.02	0.02	0.85	0.87	0.02	0.15	0.17	—	2,521	2,521	0.13	0.13	3.83	2,567
Area	0.13	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	6.12	6.12	< 0.005	< 0.005	—	6.15
Water	—	—	—	—	—	—	—	—	—	—	0.00	16.0	16.0	< 0.005	< 0.005	—	16.1

Waste	—	—	—	—	—	—	—	—	—	—	0.19	0.00	0.19	0.02	0.00	—	0.65
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	1.95	1.45	10.9	0.02	0.02	0.85	0.87	0.02	0.15	0.17	0.19	2,543	2,544	0.15	0.13	3.83	2,590
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.33	0.26	2.00	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	—	417	417	0.02	0.02	0.63	425
Area	0.02	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1.01	1.01	< 0.005	< 0.005	—	1.02
Water	—	—	—	—	—	—	—	—	—	—	0.00	2.65	2.65	< 0.005	< 0.005	—	2.67
Waste	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	0.00	—	0.11
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	0.36	0.26	2.00	< 0.005	< 0.005	0.16	0.16	< 0.005	0.03	0.03	0.03	421	421	0.03	0.02	0.63	429

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.40	22.2	19.9	0.03	0.92	—	0.92	0.84	—	0.84	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.40	22.2	19.9	0.03	0.92	—	0.92	0.84	—	0.84	—	3,425	3,425	0.14	0.03	—	3,437

Demolitio	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.22	1.09	< 0.005	0.05	—	0.05	0.05	—	0.05	—	188	188	0.01	< 0.005	—	188
Demolitio n	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.22	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.1	31.1	< 0.005	< 0.005	—	31.2
Demolitio n	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

3.3. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.31	31.6	30.2	0.05	1.37	—	1.37	1.26	—	1.26	—	5,295	5,295	0.21	0.04	—	5,314

Dust From Material Movement	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.87	0.83	< 0.005	0.04	—	0.04	0.03	—	0.03	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement	—	—	—	—	—	0.54	0.54	—	0.28	0.28	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.16	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	0.10	0.10	—	0.05	0.05	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

3.5. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.21	29.9	29.2	0.06	1.25	—	1.25	1.15	—	1.15	—	6,748	6,748	0.27	0.05	—	6,771
Dust From Material Movement	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	1.64	1.60	< 0.005	0.07	—	0.07	0.06	—	0.06	—	370	370	0.01	< 0.005	—	371
Dust From Material Movement	—	—	—	—	—	0.50	0.50	—	0.20	0.20	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.30	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	—	61.2	61.2	< 0.005	< 0.005	—	61.4
Dust From Material Movement	—	—	—	—	—	0.09	0.09	—	0.04	0.04	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

3.7. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	4.37	5.46	0.01	0.18	—	0.18	0.17	—	0.17	—	1,004	1,004	0.04	0.01	—	1,008
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.80	1.00	< 0.005	0.03	—	0.03	0.03	—	0.03	—	166	166	0.01	< 0.005	—	167
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

3.9. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	2.10	2.77	< 0.005	0.08	—	0.08	0.07	—	0.07	—	511	511	0.02	< 0.005	—	513
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.38	0.50	< 0.005	0.01	—	0.01	0.01	—	0.01	—	84.7	84.7	< 0.005	< 0.005	—	85.0
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

3.11. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.76	7.12	9.94	0.01	0.32	—	0.32	0.29	—	0.29	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.46	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.39	0.54	< 0.005	0.02	—	0.02	0.02	—	0.02	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

3.13. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	3.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architectural Coatings	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	6.12	6.12	< 0.005	< 0.005	—	6.15

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	6.12	6.12	< 0.005	< 0.005	—	6.15
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	6.12	6.12	< 0.005	< 0.005	—	6.15
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	6.12	6.12	< 0.005	< 0.005	—	6.15
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	1.01	1.01	< 0.005	< 0.005	—	1.02
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.01	1.01	< 0.005	< 0.005	—	1.02

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	3.58	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.06	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	0.00	16.0	16.0	< 0.005	< 0.005	—	16.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	16.0	16.0	< 0.005	< 0.005	—	16.1

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	0.00	16.0	16.0	< 0.005	< 0.005	—	16.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	16.0	16.0	< 0.005	< 0.005	—	16.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	0.00	2.65	2.65	< 0.005	< 0.005	—	2.67
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.00	2.65	2.65	< 0.005	< 0.005	—	2.67

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	0.19	0.00	0.19	0.02	0.00	—	0.65
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.19	0.00	0.19	0.02	0.00	—	0.65
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	0.19	0.00	0.19	0.02	0.00	—	0.65
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	0.19	0.00	0.19	0.02	0.00	—	0.65
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	0.00	—	0.11
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	0.00	—	0.11

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	3/20/2025	4/17/2025	5.00	20.0	—

Site Preparation	Site Preparation	4/18/2025	5/2/2025	5.00	10.0	—
Grading	Grading	5/3/2025	5/31/2025	5.00	20.0	—
Building Construction	Building Construction	6/1/2025	4/19/2026	5.00	230	—
Paving	Paving	4/20/2026	5/18/2026	5.00	20.0	—
Architectural Coating	Architectural Coating	5/19/2026	6/16/2026	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45

Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	14.3	LDA,LDT1,LDT2
Demolition	Vendor	—	8.80	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.80	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	14.3	LDA,LDT1,LDT2
Grading	Vendor	—	8.80	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	14.3	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	8.80	HHDT,MHDT

Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	14.3	LDA,LDT1,LDT2
Paving	Vendor	—	8.80	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	14.3	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.80	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	6,863	2,288	9,150

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	0.00	—

Site Preparation	0.00	0.00	15.0	0.00	—
Grading	0.00	0.00	90.0	0.00	—
Paving	0.00	0.00	0.00	0.00	3.50

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
City Park	0.00	100%
Parking Lot	3.50	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	391	0.03	< 0.005
2026	0.00	375	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	960	1,600	960	183,543	7,063	7,063	7,063	1,104,855

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	6,863	2,288	9,150

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
City Park	5,952	375	0.0330	0.0040	0.00
Parking Lot	0.00	375	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
City Park	0.00	9,672,091
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
City Park	0.34	0.00
Parking Lot	0.00	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	26.6	annual days of extreme heat
Extreme Precipitation	5.85	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	63.7

AQ-PM	15.1
AQ-DPM	14.1
Drinking Water	39.7
Lead Risk Housing	5.49
Pesticides	84.3
Toxic Releases	16.8
Traffic	5.90
Effect Indicators	—
CleanUp Sites	40.8
Groundwater	76.6
Haz Waste Facilities/Generators	78.8
Impaired Water Bodies	87.0
Solid Waste	97.9
Sensitive Population	—
Asthma	26.1
Cardio-vascular	64.3
Low Birth Weights	9.64
Socioeconomic Factor Indicators	—
Education	26.9
Housing	10.8
Linguistic	27.3
Poverty	30.9
Unemployment	22.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract

Economic	—
Above Poverty	73.68150905
Employed	52.68831002
Education	—
Bachelor's or higher	68.40754523
High school enrollment	5.671756705
Preschool enrollment	30.89952521
Transportation	—
Auto Access	54.54895419
Active commuting	15.8475555
Social	—
2-parent households	79.26344155
Voting	94.30257924
Neighborhood	—
Alcohol availability	92.66007956
Park access	11.4718337
Retail density	3.06685487
Supermarket access	2.399589375
Tree canopy	10.02181445
Housing	—
Homeownership	81.9196715
Housing habitability	62.8127807
Low-inc homeowner severe housing cost burden	58.02643398
Low-inc renter severe housing cost burden	14.53868857
Uncrowded housing	58.74502759
Health Outcomes	—
Insured adults	93.45566534

Arthritis	71.8
Asthma ER Admissions	71.5
High Blood Pressure	85.1
Cancer (excluding skin)	40.8
Asthma	65.7
Coronary Heart Disease	85.5
Chronic Obstructive Pulmonary Disease	81.8
Diagnosed Diabetes	91.2
Life Expectancy at Birth	75.3
Cognitively Disabled	96.3
Physically Disabled	86.7
Heart Attack ER Admissions	61.3
Mental Health Not Good	73.6
Chronic Kidney Disease	90.3
Obesity	70.2
Pedestrian Injuries	44.4
Physical Health Not Good	87.1
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	11.9
Current Smoker	64.6
No Leisure Time for Physical Activity	81.2
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	0.5
Elderly	55.1

English Speaking	69.8
Foreign-born	37.6
Outdoor Workers	58.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	79.6
Traffic Density	4.8
Traffic Access	23.0
Other Indices	—
Hardship	39.8
Other Decision Support	—
2016 Voting	91.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	63.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health and Equity Evaluation Scorecard not completed.

8. User Changes to Default Data

Screen	Justification
Construction: Paving	All non-parking lot paved areas included in Phase 1
Operations: Energy Use	Based on energy study.
Operations: Water and Waste Water	Based on project description.
Construction: Dust From Material Movement	All grading included in Phase 1

ATTACHMENT F

BIOLOGICAL TECHNICAL MEMORANDUM

MONTROSE ENVIRONMENTAL SOLUTIONS
1801 7TH STREET, SUITE 100
SACRAMENTO, CA 95811
(916) 447-3479 | FAX (916) 447-1665

BIOLOGICAL MEMORANDUM

To:	City of Roseville 316 Vernon Street, Suite 400 Roseville, CA 95678
From:	Jedidiah Dowell, Biologist Montrose Environmental Solutions 1801 7th Street, Suite 100 Sacramento, CA 95811
Project:	Roseville Regional Sports Complex Project
Date:	6/23/2022

1.0 INTRODUCTION

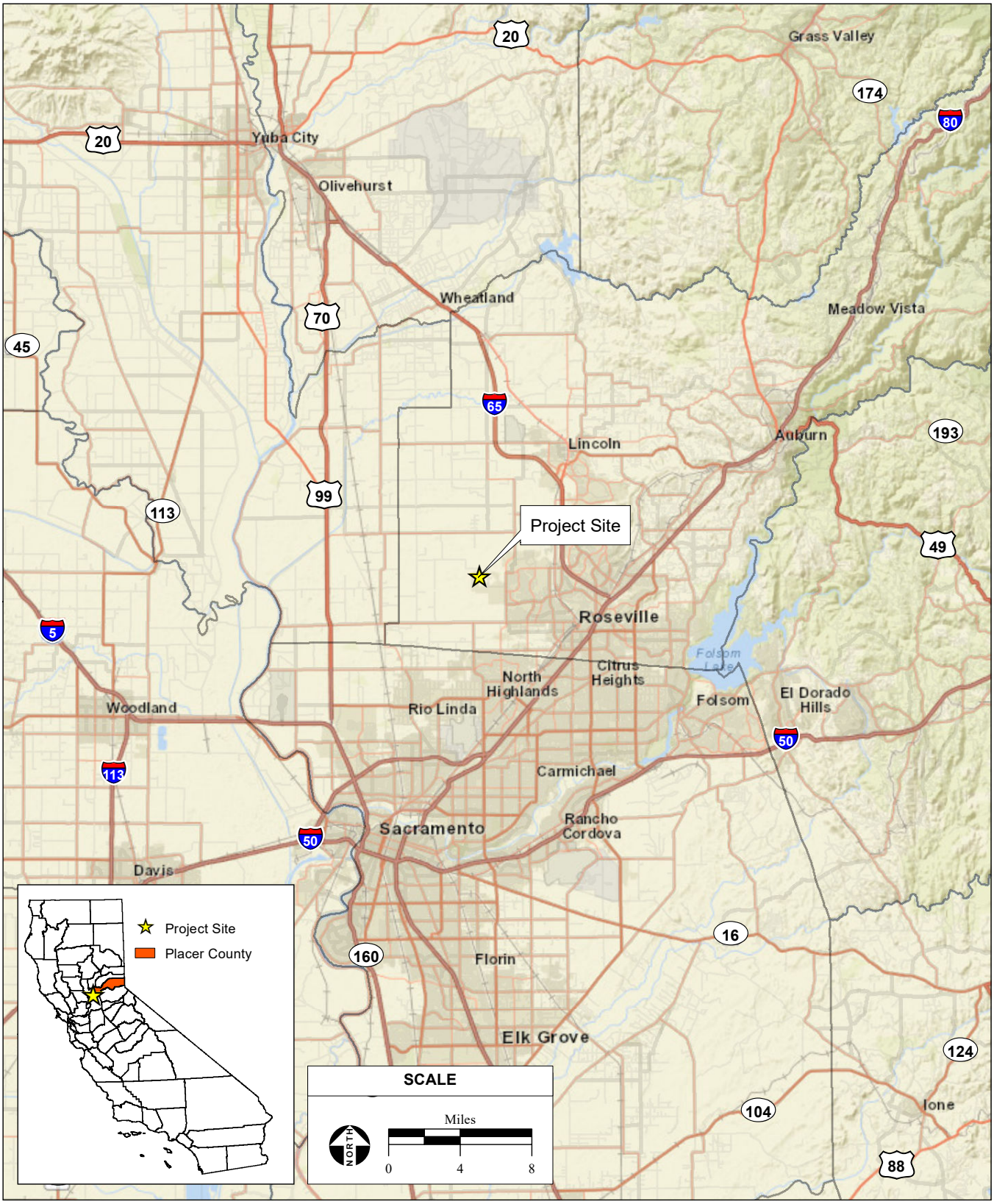
This memorandum has been prepared for the Roseville Regional Sports Complex Project (Proposed Project) located in Roseville, CA on an approximately 51-acre property (Project Site). The Proposed Project consists of the construction of ten soccer fields, a universally accessible playground, parking lots, restrooms, and picnic areas. The Project Site is not located within a regulatory floodway and is found on the USGS 7.5-minute Pleasant Grove quadrangle (**Figures 1, 2,** and **3**). A site plan is shown in **Figure 4**. Project Site elevations range from approximately 90 feet to 100 feet above mean sea level. The purpose of this assessment is to identify sensitive biological resources that could occur within the area of impact and be affected by the Proposed Project.

2.0 METHODOLOGY

The following information was obtained and reviewed:

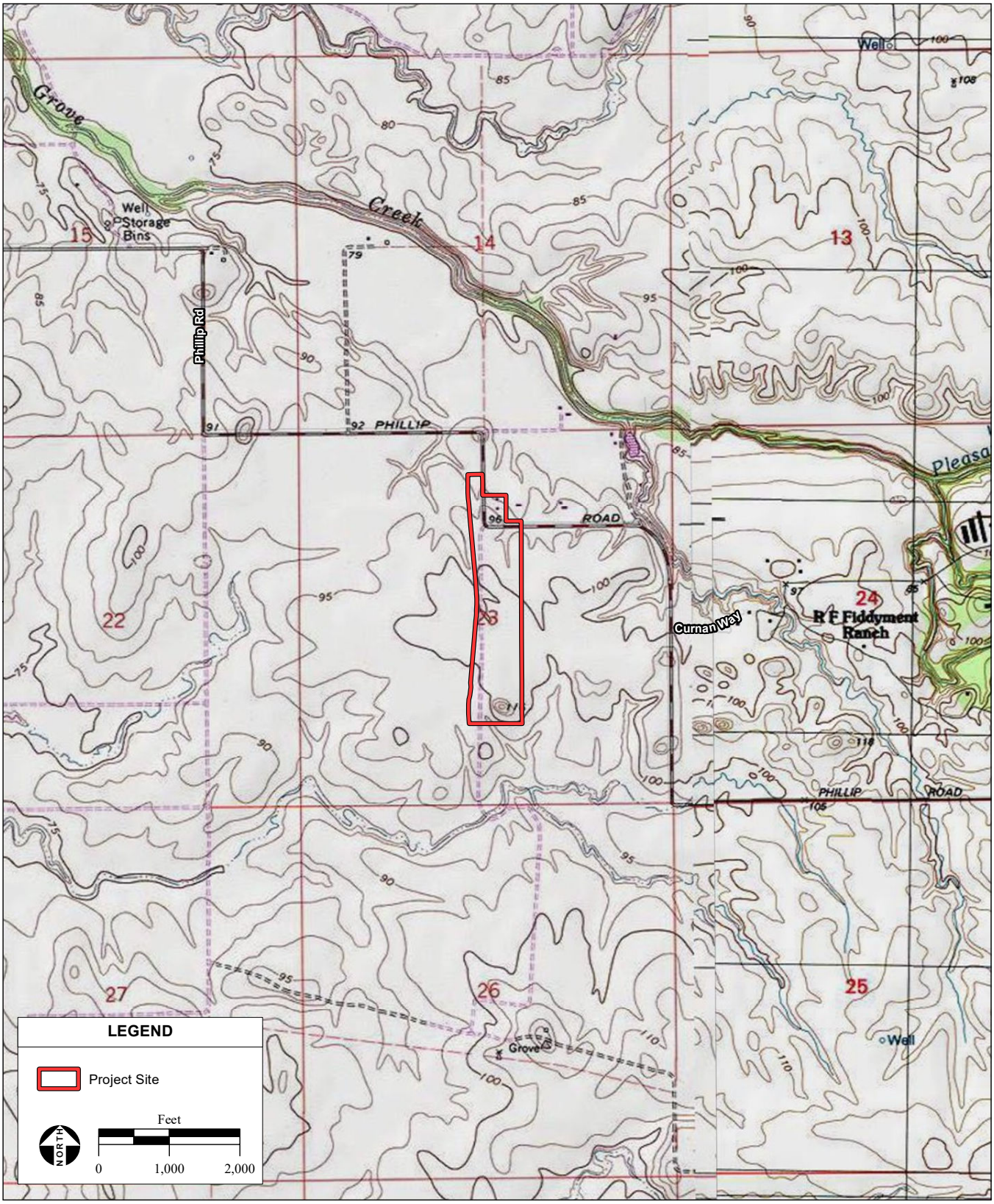
- Aerial photographs of the Project Site and surrounding area;
- U.S. Fish and Wildlife Service (USFWS) Information for Planning and Conservation (IPaC) list, updated April, 2022 (**Attachment A**);
- California Natural Diversity Database (CNDDB) list, updated January, 2022 (**Attachment A**);
- California Native Plant Society (CNPS) list, updated January, 2022 (**Attachment A**);
- USFWS National Wetlands Inventory (NWI) map of wetland features, updated April, 2022 (**Figure 6**); and
- Natural Resources Conservation Service (NRCS) custom soils report, updated April, 2022 (**Attachment B**).

A biological resources survey was conducted on the Project Site on April 4, 2022. The survey was conducted by walking transects throughout the entirety of the Project Site. The majority of time spent conducting the survey was focused on primarily identifying sensitive habitat areas such as any possible riparian areas or wetlands. Binoculars were used to assist in surveying efforts. Data was collected using a Trimble TDC150 GPS receiver. Survey goals consisted of identifying habitat types, sensitive habitats, wetlands and waters of the U.S, and special-status species. Sensitive habitats include those that are



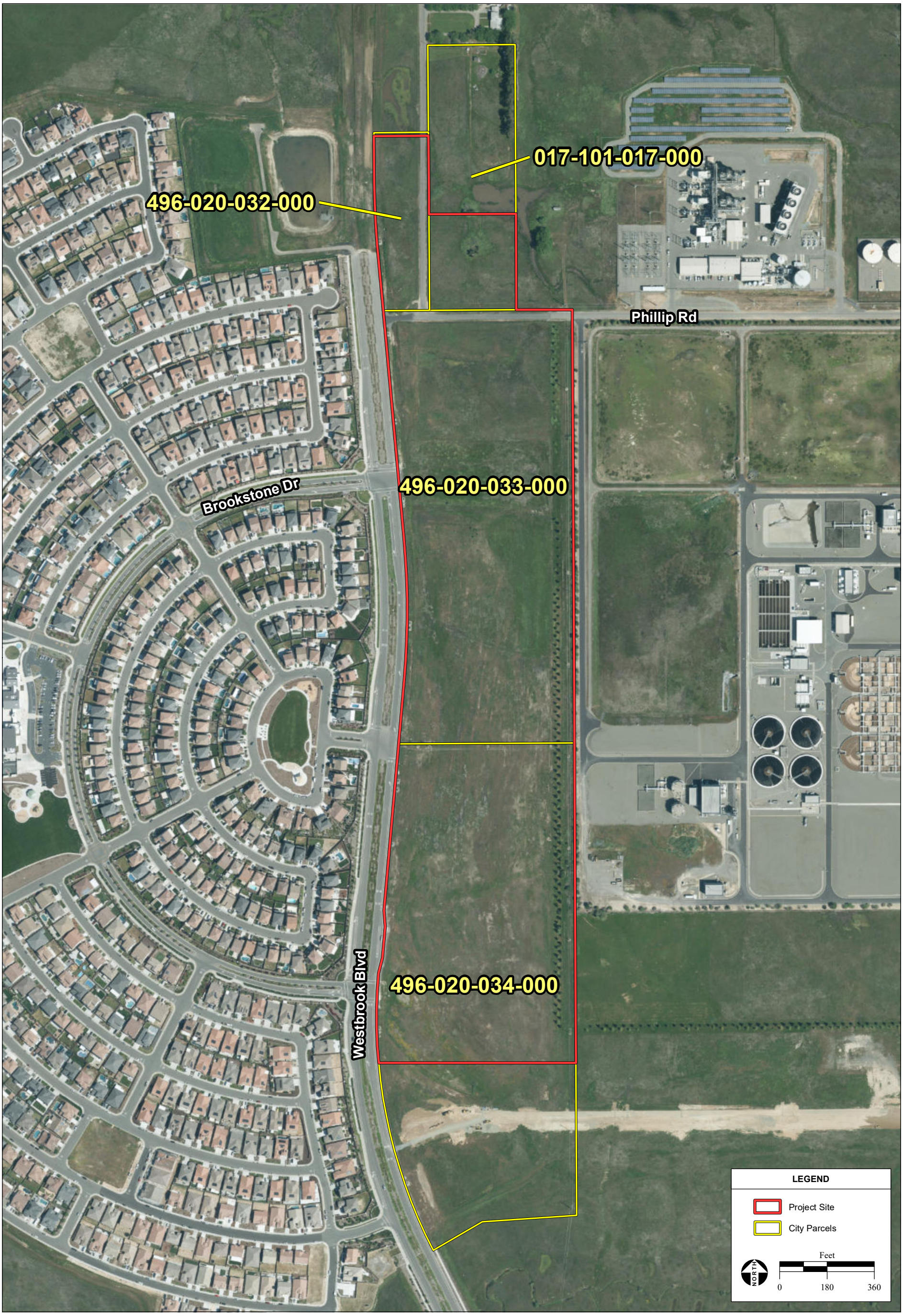
SOURCE: ESRI, 2022; Montrose Environmental, 6/9/2022

Figure 1
Regional Location



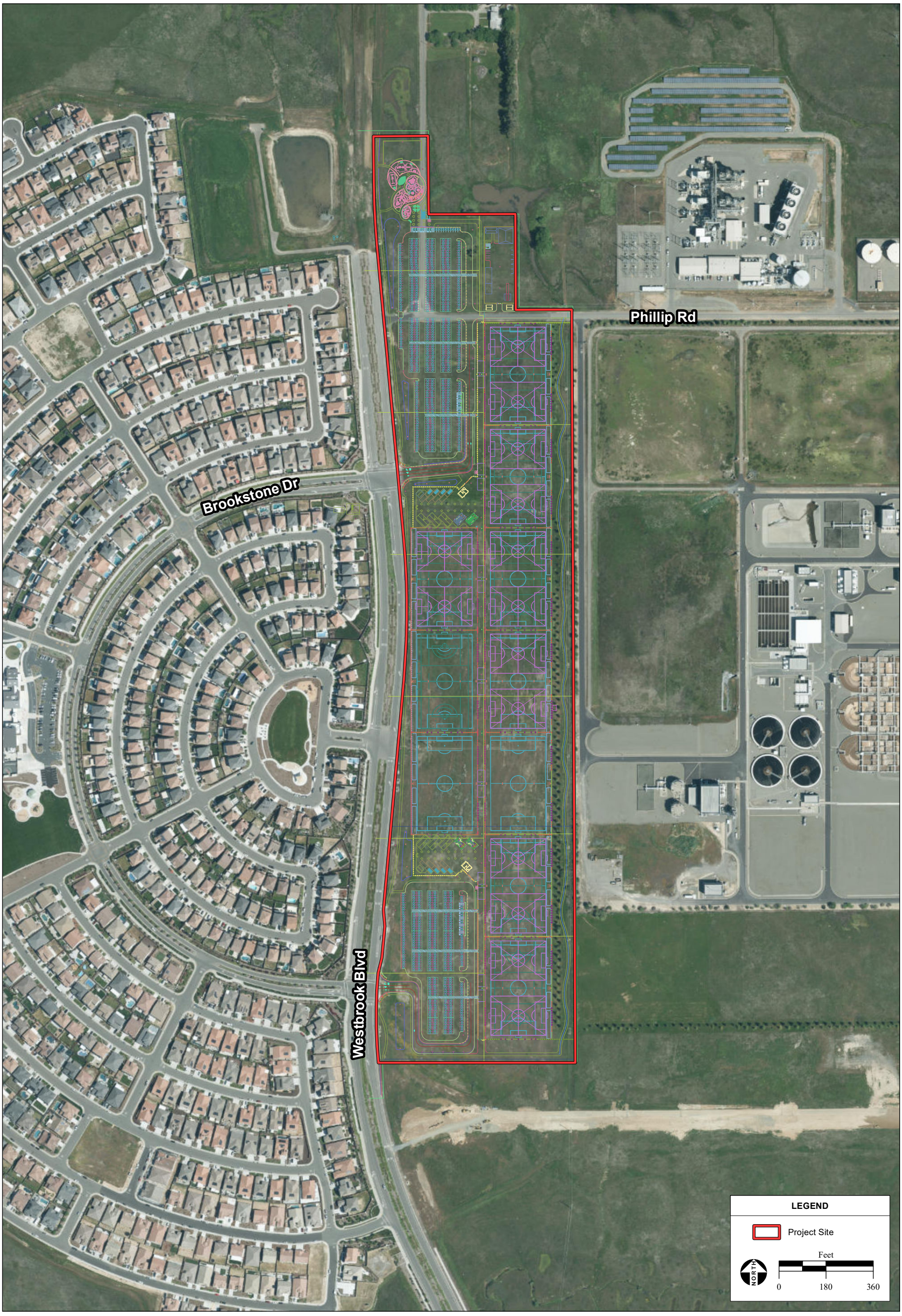
SOURCE: "Pleasant Grove, CA" USGS 7.5 Minute Topographic Quadrangle, T11N R5E, Section 23, Mt Diablo Baseline & Meridian; ESRI, 2022; Montrose Environmental, 6/9/2022

Figure 2
Site & Vicinity



SOURCE: Placer County Parcels, 2018; City of Roseville aerial photograph, 4/22/2019; Montrose Environmental, 6/20/2022

Figure 3
Aerial Photography



SOURCE: Verde Design, 6/6/2022; City of Roseville aerial photograph, 4/22/2019; Montrose Environmental, 6/9/2022

Figure 4
Site Plan

designated by the California Department of Fish and Wildlife (CDFW), considered by local experts to be communities of limited distribution, or likely to be waters of the U.S. or State by the appropriate regulatory agencies. Habitat requirements of special-status species were compared to habitats observed, which were determined based on aerial photographs, ground-truthing, and background data review.

3.0 ENVIRONMENTAL SETTING

3.1 SOIL TYPES

The Project Site is comprised of the Cometa-Fiddyment complex and Cometa-Ramona sandy loams. Cometa-Fiddyment complex is a well-drained soil with a high runoff class and does not flood. Cometa-Ramona sandy loams is a well-drained soil with a very high runoff class and does not flood. An extremely minor soil component of the Project Site consists of San Joaquin-Cometa sandy loams covering less than one percent of the Project Site. A custom soils report for the Project Site can be found in **Attachment B**.

3.2 HABITAT TYPES

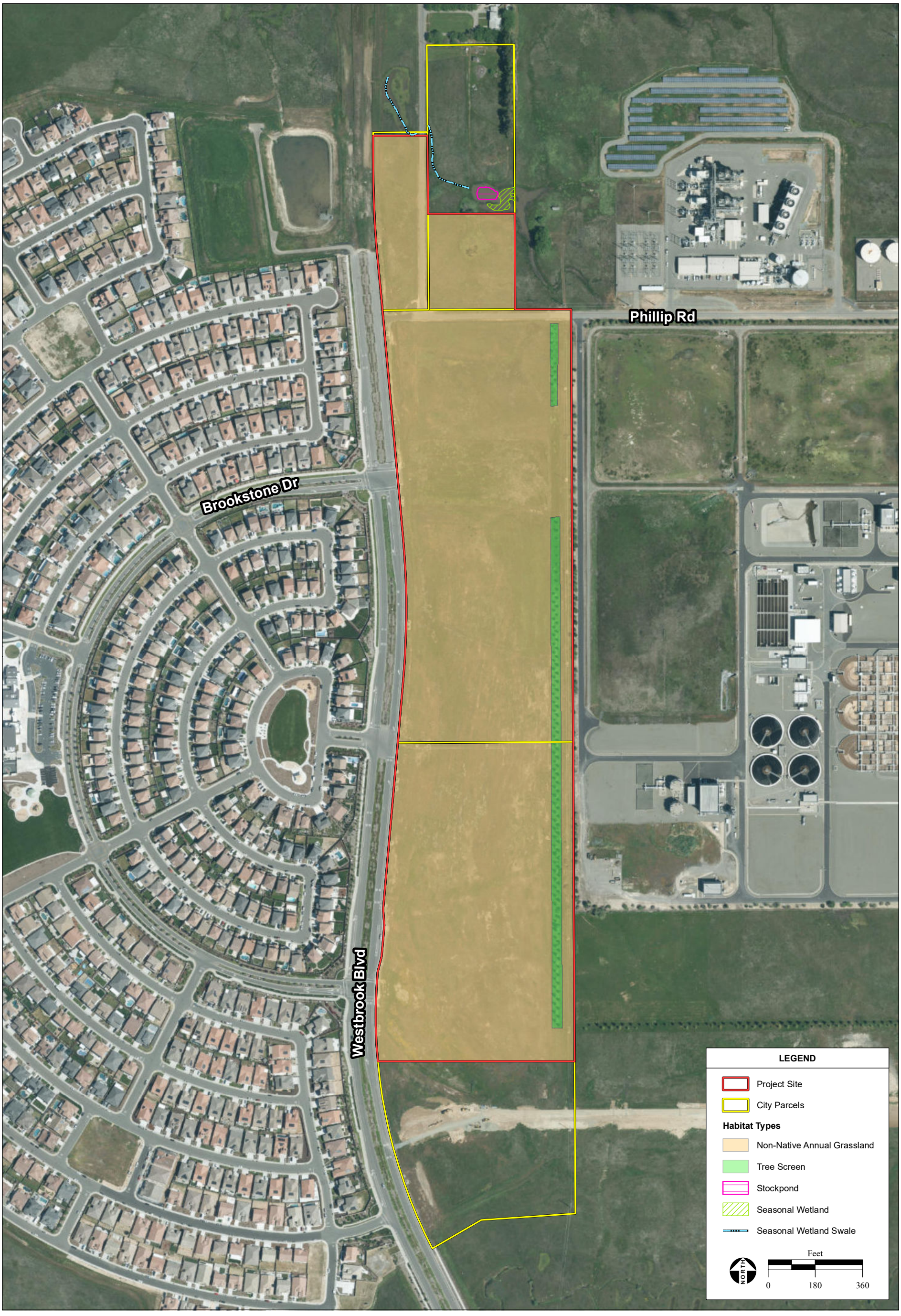
Habitat types identified on the Project Site are shown in **Figure 5**. Tree screen habitat occurs along the eastern boundary of the Project Site. NWI classifies linear areas of the northern, eastern, and southern portion of the Project Site as freshwater emergent wetland and also identifies a freshwater pond outside the northern extent of the Project Site (**Figure 6**). NWI identifies aquatic habitat based on features visible from available aerial photography, and boundaries may not be accurate if older imagery is used, or if the interpretation of aerial imagery is inaccurate. Therefore, the actual boundaries should be ground-truthed to identify the current and accurate location of aquatic features. During the April 4, 2022 biological survey, the emergent wetlands were not observed, but the pond was present, and seasonal wetlands and a seasonal wetland swale were identified in its vicinity. These features are located to the north of the northern Project Site boundary (**Figure 5**). The Project Site is not located in a FEMA-designated flood hazard zone (FEMA, 2022). A "Regulatory Floodway" is defined by FEMA as the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height (FEMA, 2021). Habitat types on the Project Site are further discussed below.

Non-Native Annual Grassland

Non-native annual grassland habitat is the dominant habitat type present throughout the Project Site. Trees are largely absent within this community type and it is generally dominated by non-native annual grasses and forbs. Sparsely distributed clusters of living and dead interior live oaks (*Quercus wislizeni*) are found within this habitat type. Weedy forbs and non-native grasses were the dominant ground cover of this habitat type. These species included bromes (*Bromus* sp.), filaree (*Erodium* sp.), prickly sowthistle (*Sonchus asper*), and lesser hop trefoil (*Trifolium dubium*). Evidence of game trails and small mammal burrows were observed within this habitat type.

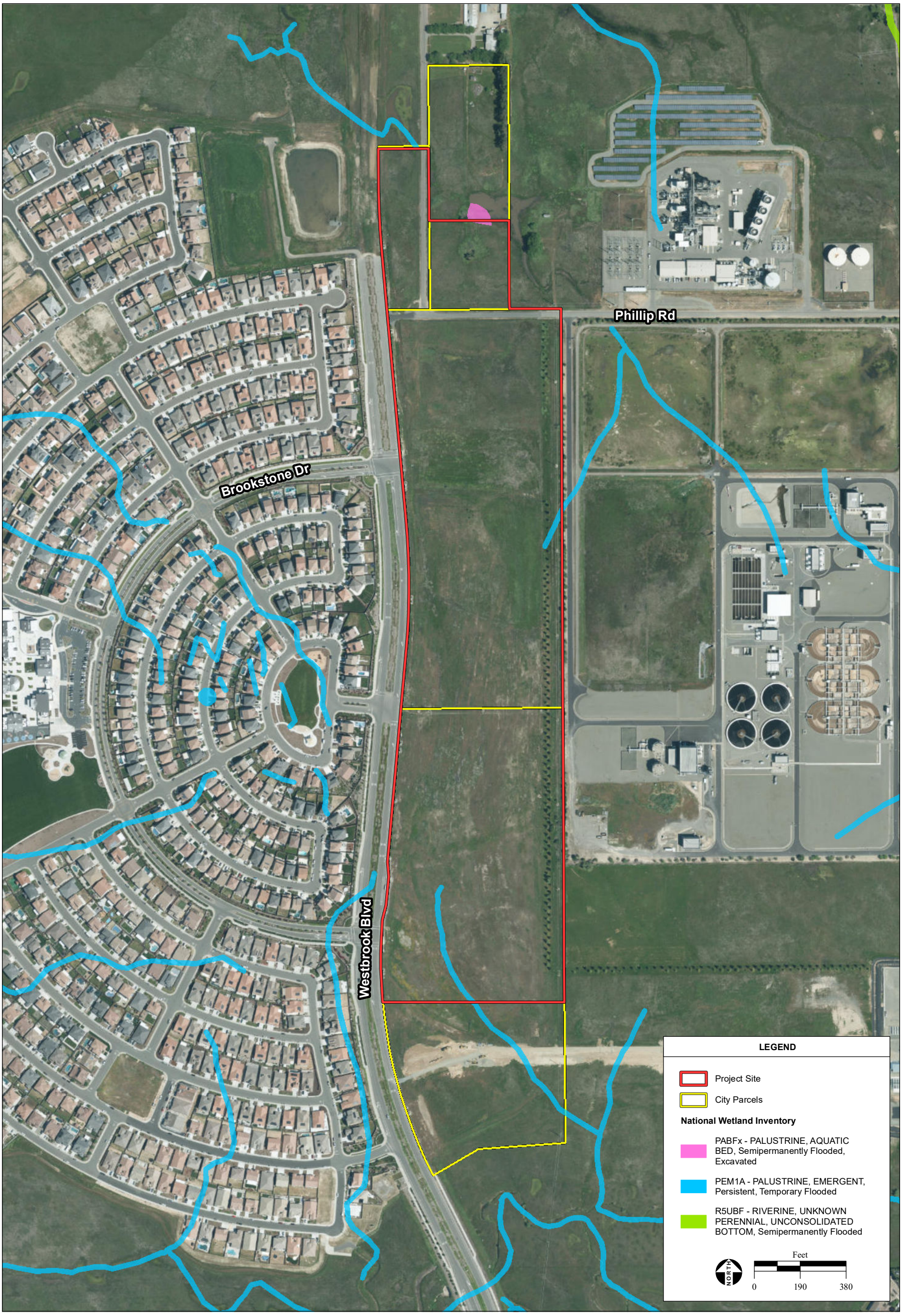
Tree Screen

Tree screen habitat covers almost the entirety of the Project Site's eastern border. Coast redwood (*Sequioa sempirvirens*) and true firs (*Abies* sp.) comprise the majority of the canopy in this habitat type. Fremont cottonwood (*Populus fremontii*) and interior live oak are variably and infrequently present within this habitat type. These trees are even-aged and planted for viewshed screening purposes to block views of the transmission powerlines and the wastewater treatment plant. The herbaceous forbs and grasses described in the annual grassland habitat type are present as ground cover.



SOURCE: Placer County Parcels, 2018; City of Roseville aerial photograph, 4/22/2019; Montrose Environmental, 6/20/2022

Figure 5
Habitat Types



SOURCE: USFWS National Wetland Inventory for "'Sacramento, CA" USGS 100k Topographic Quadrangle, 1975, 1976, 1977; Placer County Parcels, 2018; City of Roseville aerial photograph, 4/22/2019; Montrose Environmental, 6/20/2022

Figure 6
National Wetland Inventory

3.3 SPECIAL-STATUS SPECIES

Data review and special-status species searches list 8 special-status plant species and 15 special-status wildlife species with the potential to occur in the region of the Project Site (**Attachment A**). The name, regulatory status, distribution, habitat requirements, period of identification, and potential to occur for each species are listed in **Table 1**.

Based on the site-specific habitats and special-status species habitat requirements for each species that may occur within the vicinity of the Project Site, as shown in **Table 1**, the Project Site does not contain suitable habitat for special-status plants, but does provide marginal foraging habitat for two special-status animal species, white-tailed kite and Swainson's hawk. Species with no potential to occur on the Project Site were ruled out based on lack of suitable habitat, soils, elevation, necessary substrate, and negative results during the survey if it coincided with the identifiable bloom period for plant species. Special-status species were not observed during the survey.

3.4 WILDLIFE MOVEMENT

Wildlife movement is currently restricted to the west by Westbrook Boulevard and residential developments. Barring roads, areas of non-native annual grassland are contiguous between the riparian corridor within Pleasant Grove Creek to the north and the channelized unnamed tributary of Curry Creek to the south. Pleasant Grove Creek and Curry Creek occur approximately 0.33 miles northeast and 2.1 miles southwest of the Project Site respectively, both of which may foster wildlife movement along their riparian and channel fringes. Both of these off-site watercourse features may facilitate wildlife movement through or around the Project Site via the continuous non-native annual grassland habitat. Tree screen habitat may facilitate arboreal wildlife movement longitudinally within the Project Site.

3.5 CRITICAL HABITAT AND ESSENTIAL FISH HABITAT

No designated critical habitat or essential fish habitat occurs on the Project Site (**Attachment A**).

4.0 RESULTS AND RECOMMENDATIONS

4.1 SENSITIVE HABITAT

Habitat types within the Project Site include non-native annual grassland and tree screen habitats. The area of impact consists of non-native annual grassland and removal of individual trees within the tree screen. A freshwater pond and its associated seasonal wetland and seasonal wetland swale occur north of the northern boundary of the Project Site and flow to the north when drained. These aquatic resources are avoided as part of Project design. A buffer which excludes Project development within the high water mark of the pond and wetland has been incorporated into the design of the Proposed Project. The Proposed Project will not impact any aquatic features nor trigger permitting, as Project component footprints do not extend into the jurisdictional boundaries of these features. Additionally, a Stormwater Pollution Prevention Plan (SWPPP) will be necessary for the construction of the Project and would include Best Management Practices (BMPs) to reduce erosion, sedimentation, and contamination that could indirectly impact the wetland habitats and other aquatic resources during construction. Standard precautions would be employed by the construction contractor to prevent the accidental release of fuel, oil, lubricant, or other hazardous materials associated with construction activities into potentially jurisdictional features.

TABLE 1 - REGIONALLY OCCURRING SPECIAL-STATUS SPECIES

SCIENTIFIC NAME COMMON NAME	FEDERAL/ STATE/CNPS STATUS	DISTRIBUTION	HABITAT REQUIREMENTS	IDENTIFICATION PERIOD	POTENTIAL TO OCCUR ON PROJECT SITE
Plants					
Balsamorhiza macrolepis var macrolepis Big-scale balsamroot	--/--/1B.2	Known to occur in Alameda, Amador, Butte, Colusa, El Dorado, Lake, Mariposa, Napa, Placer, Santa Clara, Shasta, Solano, Sonoma, Tehama, and Tuolumne counties.	Perennial herb that sometimes occurs in serpentine soils found in chaparral, cismontane woodland, and valley and foothill grassland habitats. Elevations range from 145-5100 feet.	March-July	**No.** The Project Site lacks suitable habitat.
Brodiaea rosea (Synonym: *Brodiaea coronaria ssp. rosea*) Indian Valley brodiaea	--/CE/1B.1	Known to occur in Colusa, Glenn, Lake, Shasta, Tehama, and Trinity counties.	A perennial bulbiferous herb that occurs in serpentinite, closed-cone coniferous forest, chaparral, cismontane woodland, valley, and foothill grasslands. Elevation range: 1100-1450 meters.	May-June	**No.** The Project Site lacks suitable habitat.
Chloropyron molle ssp. *hispidus* Hispid bird's-beak	FE/CR/1B.2	Known to occur in Alameda, Fresno, Kern, Merced, Place and Solano counties.	A hemiparasitic annual herb found in alkaline conditions within meadows, seeps, playas, valley and foothill grasslands. Elevations: 1-155 meters.	June-September	**No.** The Project Site lacks suitable habitat.
Downingia pusilla Dwarf downingia	--/--/2B.2	Known to occur in Amador, Fresno, Merced, Napa, Placer, Sacramento, San Joaquin, Solano, Sonoma, Stanislaus, Tehama, and Yuba counties. Also occurs in South America.	Valley and foothill grassland (mesic) and vernal pools and roadside ditches. Elevations: 1-445 meters.	March-May	**No.** Suitable habitat is not present within the Project Site.
Fritillaria agrestis Stinkbells	--/--/4.2	Known range of this species includes Alameda, Contra Costa, Fresno, Kern, Mendocino, Merced, Monterey, Mariposa, Placer, Sacramento, Santa Barbara, San Benito, Santa Clara, Santa Cruz*, San Luis Obispo, San Mateo*, Stanislaus, Tuolumne, Ventura and Yuba Counties (CNPS, 2013).	A bulbiferous herb in the lily family (Liliaceae). It occurs in chaparral, cismontane woodland, pinyon and juniper woodland, and on clay, sometimes serpentine substrates of valley and foothill grassland habitats. Found at elevations from 10 to 1,555 meters above mean sea level.	March -June	**No.** The Project Site lacks suitable habitat.
Gratiola heterosepala Boggs Lake hedge-hyssop	--/CE/1B.2	Known to occur in Fresno, Lake, Lassen, Madera, Merced, Mendocino, Modoc, Placer, Sacramento, Shasta, Siskiyou, San Joaquin, Solano, Sonoma, and Tehama counties in CA and in Oregon.	Annual herb found on clay soils along the lake margins of marshes and swamps, shallow water, and margins of vernal pools. Elevations range from 10 to 2,375 meters.	April-September	**No.** Suitable habitat is not present within the Project Site.
Juncus leiospermus var. leiospermus Red Bluff dwarf rush	--/--/1B.1	Occurs in Butte, Placer, Shasta and Tehama counties, California.	Annual herb found in vernally mesic soils in chaparral, cismontane woodland, meadows and seeps, valley and foothill grassland, and vernal pools. Elevation: 35 – 1250 meters.	March – June	**No.** The Project Site lacks suitable habitat.
Legenere limosa	--/--/1B.1	Known to occur in Alameda, Lake, Monterey,	Annual herb occurs in wet areas, ponds, and	April-June	**No.** The Project Site

SCIENTIFIC NAME COMMON NAME	FEDERAL/ STATE/CNPS STATUS	DISTRIBUTION	HABITAT REQUIREMENTS	IDENTIFICATION PERIOD	POTENTIAL TO OCCUR ON PROJECT SITE
Legenere		Napa, Placer, Sacramento, Santa Clara, Shasta, San Joaquin, San Mateo, Solano, Sonoma, Stanislaus, Tehama, and Yuba counties.	vernal pools. Elevations range from 1-950 meters.		lacks suitable habitat.
Animals					
Fish					
Hypomesus transpacificus Delta smelt	FT/CE/--	Occurs almost exclusively in the Sacramento-San Joaquin estuary, from the Suisun Bay upstream through the Delta in Contra Costa, Sacramento, San Joaquin, Solano, and Yolo counties. May also occur in the San Francisco Bay.	Estuarine waters. Majority of life span is spent within the freshwater outskirts of the mixing zone (saltwater-freshwater interface) within the Delta.	Consult Agency	**No.** The Project Site lacks suitable habitat.
Oncorhynchus mykiss irideus pop. 11 [Steelhead-Central Valley DPS]	FT/--/--	Spawn in the Sacramento and San Joaquin rivers and tributaries before migrating to the Delta and Bay Area.	Found in cool, clear, fast-flowing permanent streams and rivers with riffles and ample cover from riparian vegetation or overhanging banks. Spawning: streams with pool and riffle complexes. For successful breeding, require cold water and gravelly streambed.	Consult Agency	**No.** The Project Site lacks suitable habitat.
Amphibians					
Spea hammondii western spadefoot toad	--/CSC/--	Known to occur from the north end of California's great central valley near Redding, south, east of the Sierras and the deserts, into northwest Baja California.	Mostly below 3,000 feet in elevation. Their aquatic habitat is vernal pools, temporary wetlands, rivers creeks, or temporary rain pools. Their terrestrial habitat is typically lowland habitats such as washes, river floodplains, alluvial fans, playas, alkali flats, foothills, or mountains. They prefer sandy or gravelly soil with open vegetation and short grasses (often in valley and foothill grasslands, open chaparral, and pine-oak woodland).	November-March	**No.** The Project Site lacks suitable habitat. Aquatic habitats are not wetted during the dry season. Vernal pools not present. CNDDB observations are from 2004 or prior.
Reptiles					
Thamnophis gigas giant garter snake	FT/CT/--	Endemic to the San Joaquin and Sacramento Valley floors. Counties include Butte, Colusa, Contra Costa, Fresno, Glenn, Kern, Madera, Merced, Sacramento, San Joaquin, Solano, Sutter, Yolo, and Yuba.	Inhabits agricultural wetlands and other waterways such as irrigation and drainage canals, sloughs, ponds, small lakes, low gradient streams, and adjacent uplands. Requires adequate water during its active season (early spring through mid-fall) to provide food and cover, emergent, herbaceous wetland vegetation for foraging and	March-October	**No.** The Project Site lacks suitable habitat. Aquatic habitats are not wetted during the dry season.

SCIENTIFIC NAME COMMON NAME	FEDERAL/ STATE/CNPS STATUS	DISTRIBUTION	HABITAT REQUIREMENTS	IDENTIFICATION PERIOD	POTENTIAL TO OCCUR ON PROJECT SITE
			cover, grassy banks and openings in waterside vegetation for basking, and higher elevation uplands for cover and refuge from floodwaters during its dormant season (winter). Inhabits small mammal burrows and other soil crevices with sunny exposure along south and west-facing slopes, above prevailing flood elevations when dormant.		
Birds					
Agelaius tricolor Tricolored blackbird	--/CT/--	California and Baja California, Mexico.	Nests in dense thickets of cattails, tules, willow, blackberry, wild rose, and other tall herbs near freshwater.	All Year	**No.** The Project Site lacks suitable habitat.
Athene cunicularia Burrowing owl	--/CSC/--	Formerly common within the described habitats throughout the state except the northwest coastal forests and high mountains.	Yearlong resident of open, dry grassland and desert habitats, as well as in grass, forb and open shrub stages of pinyon-juniper and ponderosa pine habitats.	All Year	**No.** The Project Site lacks suitable habitat. CNDDB notes a 2003 observation within 1 mile.
Ammodramus savannarum Grasshopper sparrow	--/CSC/--	Breeding range occurs in portions of western California, including most coastal counties south to extreme northwest Baja California (where resident). Also, the western Sacramento Valley and along the western edge of the Sierra Nevada. Wintering range is extreme Southern California and Baja.	Consists of moderately open grasslands and prairies with patchy bare ground. Selects different components of vegetation depending on grassland ecosystem. In the southwest and west, occupies more lush areas with shrub cover in arid grasslands.	March-September Year Round	**No.** The Project Site lacks suitable habitat.
Buteo swainsoni Swainson's hawk	--/CT/--	In California, breeds in the Central Valley, Klamath Basin, Northeastern Plateau, Lassen County, and Mojave Desert. Very limited breeding reported from Lanfair Valley, Owens Valley, Fish Lake Valley, Antelope Valley, and in eastern San Luis Obispo County.	Breeds in stands with few trees in juniper-sage flats, riparian areas, and in oak savannah. Requires adjacent suitable foraging areas such as grasslands, alfalfa, or grain fields supporting rodent populations.	March – October	**Yes.** Suitable foraging habitat is present within the Project Site. Nesting habitat is not present on site as trees present are of insufficient size.
Elanus leucurus white-tailed kite	--/FP/--	Permanent resident of coastal and Valley lowlands.	Habitats include savannah, open woodland, marshes and swamps, partially cleared lands and cultivated fields, mostly in lowland habitats. Open groves, river valleys, marshes, grasslands.	All Year	**Yes.** Suitable foraging habitat is present within the Project Site. Suitable nesting

SCIENTIFIC NAME COMMON NAME	FEDERAL/ STATE/CNPS STATUS	DISTRIBUTION	HABITAT REQUIREMENTS	IDENTIFICATION PERIOD	POTENTIAL TO OCCUR ON PROJECT SITE
			Nesting occurs in trees. Found in a wide variety of open habitats in North America, including open oak grassland, desert grassland, farm country, marshes. Main requirements seem to be trees for perching and nesting, and open ground with high populations of rodents.		habitat located north of the Project Site near Pleasant Grove Creek.
Progne subis purple martin	--/CSC/--	Local summer resident in wooded low-elevation habitats throughout California; rare migrant in spring and fall, absent in winter. In the south, now only a rare and local breeder on the coast and in interior mountain ranges.	Inhabits open forests, woodlands, and riparian areas in breeding season. Found in a variety of open habitats during migration, including grassland, wet meadow, and fresh emergent wetland, usually near water. Nests in conifer stands, often in woodpecker holes. Uses valley foothill and montane hardwood and conifer, and riparian habitats.	March-August	**No.** The Project Site lacks suitable habitat. No cavity-bearing trees.
Invertebrates					
Branchinecta lynchi vernal pool fairy shrimp	FT/--/--	Vernal pool fairy shrimp are known from a total of 32 populations located in an area extending from Shasta County through most of the length of the Central Valley to Tulare County, and along the central coast range from northern Solano County to Pinnacles in San Benito County. Five additional, disjunctive populations exist near Soda Lake in San Luis Obispo County, in the mountain grasslands of northern Santa Barbara County, on the Santa Rosa Plateau in Riverside County, near Rancho California in Riverside County.	Vernal pools in the Central Valley, coast ranges, and a limited number of sites in the Transverse Ranges and Riverside County, California.	December-May	**No.** The Project Site lacks suitable habitat. No vernal pools.
Branchinecta conservatio Conservancy fairy shrimp	FE/--/--	The species is currently known from several disjunct populations: the Vina Plains in Tehama County, south of Chico in Butte County, the Jepson Prairie Preserve and surrounding area in Solano County, Sacramento National Wildlife Refuge in Glenn County, Mapes Ranch west of Modesto, San Luis National Wildlife Refuge and the Haystack Mountain/Yosemite Lake area in Merced County, and two locations on the Los	Endemic to the northern two-thirds of the Central Valley. Found in vernal pools, seasonally ponded areas within vernal swales, rock outcrop ephemeral pools, playas, and alkali flats. Require ephemeral habitats that pool in the winter or spring.	December-May	**No.** The Project Site lacks suitable habitat. No vernal pools.

SCIENTIFIC NAME COMMON NAME	FEDERAL/ STATE/CNPS STATUS	DISTRIBUTION	HABITAT REQUIREMENTS	IDENTIFICATION PERIOD	POTENTIAL TO OCCUR ON PROJECT SITE
		Padres National Forest in Ventura County.			
Danus plexippus Monarch butterfly	--/FC/--	Known to occur in Mexico and north America. Populations that occur where winter conditions are not suitable travel along well-established migratory routes to overwintering areas. Overwintering sites are known to occur in Mexico and coastal California.	Migratory populations begin migration in the fall and can be found along established migratory routes where nectar sources are available. During breeding (typically February to March), monarch butterflies require milkweed to lay their eggs on. Overwintering monarchs require sites with sufficient roosts for the population (such as eucalyptus trees) that provide appropriate sunlight and shelter from the wind. Where climate is suitable for year-round habitation, monarchs are found in areas with nectar sources and milkweed as breeding can occur year-round.	Year-round	**No.** The Project Site lacks suitable habitat. Host plant absent during surveys and not within host plant range.
Desmocerus californicus dimorphus valley elderberry longhorn beetle (VELB)	FT/--/--	Restricted to the Central Valley from Redding to Bakersfield. Counties include Amador, Butte, Calaveras, Colusa, El Dorado, Fresno, Glenn, Kern, Madera, Mariposa, Merced, Napa, Placer, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Yolo, and Yuba counties; 0-762 meters elevation.	Riparian forest communities. Exclusive host plant is elderberry (*Sambucus* species), which must have stems ≥ 1-inch diameter for the beetle.	Year-round	**No.** The Project Site lacks suitable habitat. Host plant not observed during surveys.
Lepidurus packardi vernal pool tadpole shrimp	FE/--/--	Known from 18 populations in the Central Valley, ranging from east of Redding in Shasta County south to the San Luis National Wildlife Refuge in Merced County, also from a single vernal pool complex on the San Francisco Bay National Wildlife Refuge in the City of Fremont.	Life cycle within vernal pools and valley foothill grassland swales.	December-May	**No.** The Project Site lacks suitable habitat. No vernal pools.

SOURCE: **Attachment A**

STATUS CODES

Federal: U.S. Fish and Wildlife Service
FE Federally Endangered
FT Federally Threatened
FC Candidate for Federal Listing

State: California Department of Fish and Game
CE California Listed Endangered
CT California Listed Threatened
CSC California Species of Special Concern

CNPS: California Native Plant Society
1A Plants Presumed Extinct in California
1B Plants Rare, Threatened, or Endangered in California and Elsewhere
2B Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere

CNPS Threat Ranks:
0.1 – Seriously Threatened in California
0.2 – Fairly Threatened in California

The Proposed Project would remove 24 trees. This includes a stand of living interior live oaks composed of nine small-diameter oaks estimated as not exceeding a 10-inch diameter at breast height (DBH) for an individual stem. These nine trees would be removed to accommodate the northern parking lot component of the Proposed Project and are located northeast of the intersection of Westbrook Boulevard and Phillip Drive (**Figure 4**). Additionally, the Proposed Project would remove six redwood and fir trees on the eastern border of the Subject Property to accommodate the north-south foot path component of the Proposed Project. These trees were installed in the past for landscaping and sightline screen purposes to block views of the wastewater treatment plant and transmission powerlines located to the east of the Subject Property. Lastly, nine cottonwoods located mid-field of the Project Site southeast of the northern terminus of Brookstone Drive would be removed. Removal of trees on the Subject Property as part of the Proposed Project would require the submittal and approval of a Tree Permit pursuant to City of Roseville Municipal Code Section 19.66.030 and any oak trees over 6-iches diameter at breast height (dbh) would be required to be mitigated for in accordance with the City's tree preservation Ordinance (City of Roseville Municipal Code Section 19.66).

CDFW requires notification prior to commencement of work and acquisition of a Lake or Streambed Alteration Agreement (LSAA) if a project were to result in the alteration or degradation of a stream, river, or lake in California. Sections 401 and 404 of the Clean Water Act (CWA) afford protection to wetlands and waters of the U.S. from direct disturbance and indirect impacts to water quality. The Regional Water Quality Control Board (RWQCB) may require a CWA Section 401 permit. Project design avoids impacts to the stockpond, seasonal wetland, and seasonal wetland swale habitats.

Projects that involve working in wetlands and navigable waters of the U.S., including the discharge of dredged or fill material, must first obtain authorization from the U.S. Army Corps of Engineers (USACE) under Section 404 of the CWA. As discussed above, the Proposed Project has been designed with a buffer between the Project Site and the seasonal wetland, stockpond, and seasonal wetland swale. Indirect impacts would be managed through implementation of a SWPPP and associated BMPs.

4.2 Nesting Migratory Birds

Migratory birds and their nests are protected from "take" by the Migratory Bird Treaty Act (16 U.SC. 703-711), which makes it unlawful to "…pursue, hunt, take, capture, kill, attempt to take, capture or kill, possess or any part, nest, or egg of any such bird…" (50 CFR 10). Potentially occurring nesting migratory birds (including special-status birds included in **Table 1** and **Attachment A**) within 500 feet of the project site could be affected if vegetation removal or loud noise-producing activities associated with construction occur during the general nesting season (February 15 through August 30). **Measure 1** is recommended to reduce potential impacts to nesting migratory birds.

Measure 1

- If construction activities (e.g., building, grading, ground disturbance, removal of vegetation) are scheduled to occur during the general nesting season (February 15 – August 30), a preconstruction nesting bird survey shall be conducted by a qualified biologist throughout areas of suitable habitat within 500 feet of proposed construction activity. The survey shall occur no more than 5 days prior to the scheduled onset of construction. If construction is delayed or halted for more than 5 days, another preconstruction survey for nesting bird species shall be conducted. If no nesting birds are detected during the preconstruction survey, no additional surveys or mitigation measures are required.
- If nesting bird species are observed within 500 feet of construction areas during the survey,

appropriate "no construction" buffers shall be established. The size and scale of nesting bird buffers shall be determined by a qualified biologist and shall be dependent upon the species observed and the location of the nest. Buffers shall be established around active nest locations. The nesting bird buffers shall be completely avoided during construction activities. The buffers may be removed when the qualified wildlife biologist confirms that the nest(s) is no longer occupied and all birds have fledged.

4.3 SPECIAL-STATUS SPECIES

Based on survey observations and site characteristics, the Project Site contains foraging habitat for white-tailed kite and Swainson's hawk (**Table 1** and **Attachment A**). White-tailed kite and Swainson's hawk were not observed during the survey, and although suitable nesting habitat does not occur on the Project Site, these species may nest in the off-site vicinity. However, potential impacts to nesting migratory birds, including white-tailed kite and Swainson's hawk, are discussed in **Section 4.2** and mitigated via implementation of **Measure 1**.

4.4 WILDLIFE MOVEMENT

Open spaces and retention of tree screen habitat are incorporated into Project design, and non-native annual grassland on and off-site are contiguous between named creeks and tributaries which may foster wildlife movement. Thus, the Proposed Project would not significantly impede potential wildlife movement.

5.0 CONCLUSION

There are no sensitive habitats on the Project Site. The Project Site generally does not contain habitat for special-status species with the exception of limited foraging habitat for white-tailed kite. Additionally, birds have the potential to nest on and in the vicinity of the Project Site. Should construction occur during the nesting season (February 15 – August 30), a preconstruction nesting bird survey would be required by CDFW and the USFWS.

6.0 REFERENCES

California Department of Fish and Wildlife (CDFW), 2022. California Natural Diversity Database. Available online at: https://wildlife.ca.gov/Data/CNDDB. Accessed April 2022.

U. S. Fish and Wildlife Service (USFWS), 2022a. Information for Planning and Consultation. Available online at: https://www.fws.gov/ipac/

USFWS, 2022b. National Wetlands Inventory. Available online at: https://ecos.fws.gov/wetlands/

USFWS, 2021c. Critical Habitat Mapper. Available online at: https://fws.maps.arcgis.com/home/webmap/viewer.html?webmap=9d8de5e265ad4fe09893cf75b8dbfb77

Federal Emergency Management Agency (FEMA), 2022. FEMA Flood Map Service Center: Search By Address. Available online at https://msc.fema.gov/portal/search?AddressQuery=Roseville%20ca#searchresultsanchor. Accessed April 2022.

FEMA, 2021. Definition of Floodway. Available online at https://www.fema.gov/floodway. Accessed January 2022.

ATTACHMENTS

ATTACHMENT A

USFW, CNDDB, AND CNPS DATABASE QUERIES

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To:
Project Code: 2022-0034183
Project Name: Roseville Soccer Complex

April 20, 2022

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
(916) 414-6600

Project Summary

Project Code: 2022-0034183
Event Code: None
Project Name: Roseville Soccer Complex
Project Type: Recreation - New Construction
Project Description: Sports field complex development.
Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@38.7895203,-121.38564530660031,14z



Counties: Placer County, California

Endangered Species Act Species

There is a total of 7 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Reptiles

NAME	STATUS
Giant Garter Snake *Thamnophis gigas* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4482	Threatened

Fishes

NAME	STATUS
Delta Smelt *Hypomesus transpacificus* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/321	Threatened

Insects

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate
Valley Elderberry Longhorn Beetle *Desmocerus californicus dimorphus* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/7850	Threatened

Crustaceans

NAME	STATUS
Conservancy Fairy Shrimp *Branchinecta conservatio* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/8246	Endangered
Vernal Pool Fairy Shrimp *Branchinecta lynchi* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened
Vernal Pool Tadpole Shrimp *Lepidurus packardi* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/2246	Endangered

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

IPaC User Contact Information

Agency: Roseville city
Name: Jedidiah Dowell
Address: 1801 7th St
City: Sacramento
State: CA
Zip: 95811
Email jedowell@analyticalcorp.com
Phone: 9164473479

U.S. Fish and Wildlife Service

National Wetlands Inventory

2500 Westbrook



January 25, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

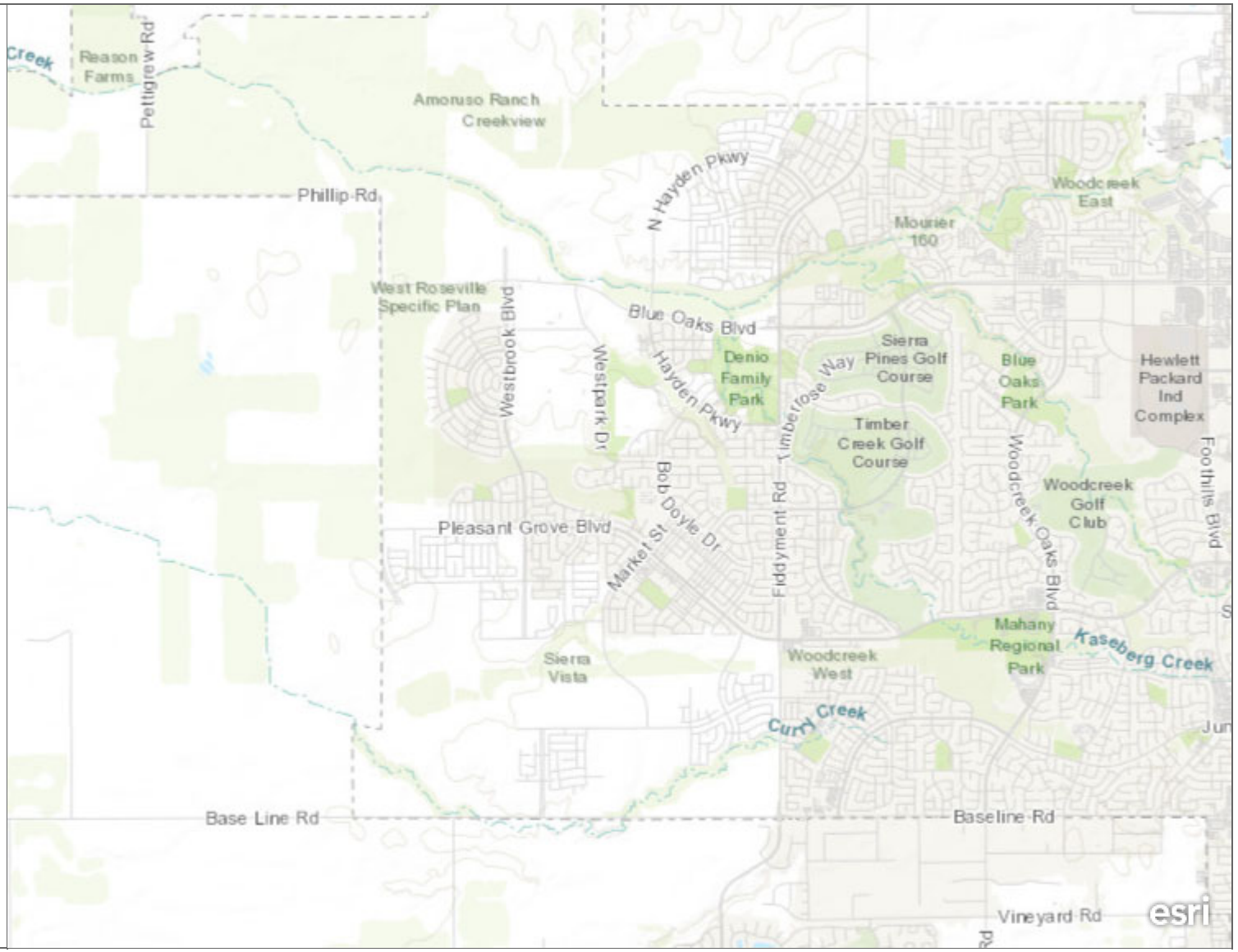
Critical Habitat for Threatened & Endangered Species [USFWS]

Final Linear Features

Final Polygon Features

Proposed Linear Features

Proposed Polygon Features



A specific geographic area(s) that contains features essential for the conservation of a threatened or endangered species and that may require special management and protection.

U.S. Fish and Wildlife Service | City of Roseville, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA

Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (Pleasant Grove (3812174) OR Roseville (3812173))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Agelaius tricolor tricolored blackbird	ABPBXB0020	None	Threatened	G1G2	S1S2	SSC
Alkali Meadow Alkali Meadow	CTT45310CA	None	None	G3	S2.1	
Alkali Seep Alkali Seep	CTT45320CA	None	None	G3	S2.1	
Ammodramus savannarum grasshopper sparrow	ABPBXA0020	None	None	G5	S3	SSC
Andrena subapasta An andrenid bee	IIHYM35210	None	None	G1G2	S1S2	
Athene cunicularia burrowing owl	ABNSB10010	None	None	G4	S3	SSC
Balsamorhiza macrolepis big-scale balsamroot	PDAST11061	None	None	G2	S2	1B.2
Branchinecta lynchi vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S3	
Buteo swainsoni Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
Chloropyron molle ssp. hispidum hispid salty bird's-beak	PDSCR0J0D1	None	None	G2T1	S1	1B.1
Downingia pusilla dwarf downingia	PDCAM060C0	None	None	GU	S2	2B.2
Elanus leucurus white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
Gratiola heterosepala Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	G2	S2	1B.2
Hydrochara rickseckeri Ricksecker's water scavenger beetle	IICOL5V010	None	None	G2?	S2?	
Juncus leiospermus var. leiospermus Red Bluff dwarf rush	PMJUN011L2	None	None	G2T2	S2	1B.1
Legenere limosa legenere	PDCAM0C010	None	None	G2	S2	1B.1
Lepidurus packardi vernal pool tadpole shrimp	ICBRA10010	Endangered	None	G4	S3S4	
Linderiella occidentalis California linderiella	ICBRA06010	None	None	G2G3	S2S3	
Northern Hardpan Vernal Pool Northern Hardpan Vernal Pool	CTT44110CA	None	None	G3	S3.1	
Northern Volcanic Mud Flow Vernal Pool Northern Volcanic Mud Flow Vernal Pool	CTT44132CA	None	None	G1	S1.1	

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Oncorhynchus mykiss irideus pop. 11 steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	G5T2Q	S2	
Progne subis purple martin	ABPAU01010	None	None	G5	S3	SSC
Spea hammondii western spadefoot	AAABF02020	None	None	G2G3	S3	SSC

Record Count: 23

Search Results

8 matches found. Click on scientific name for details

Search Criteria: Quad is one of [**3812174:3812173**]

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	BLOOMING PERIOD	FED LIST	STATE LIST	CA RARE PLANT RANK	GENERAL HABITATS
Balsamorhiza macrolepis	big-scale balsamroot	Asteraceae	Mar-Jun	None	None	1B.2	Chaparral, Cismontane woodland, Valley and foothill grassland
Brodiaea rosea ssp. *vallicola*	valley brodiaea	Themidaceae	Apr-May(Jun)	None	None	4.2	Valley and foothill grassland, Vernal pools
Chloropyron molle ssp. *hispidum*	hispid salty bird's-beak	Orobanchaceae	Jun-Sep	None	None	1B.1	Meadows and seeps, Playas, Valley and foothill grassland
Downingia pusilla	dwarf downingia	Campanulaceae	Mar-May	None	None	2B.2	Valley and foothill grassland, Vernal pools
Fritillaria agrestis	stinkbells	Liliaceae	Mar-Jun	None	None	4.2	Chaparral, Cismontane woodland, Pinyon and juniper woodland, Valley and foothill grassland
Gratiola heterosepala	Boggs Lake hedge-hyssop	Plantaginaceae	Apr-Aug	None	CE	1B.2	Marshes and swamps, Vernal pools
Juncus leiospermus var. *leiospermus*	Red Bluff dwarf rush	Juncaceae	Mar-Jun	None	None	1B.1	Chaparral, Cismontane woodland, Meadows and seeps, Valley and foothill grassland, Vernal pools
Legenere limosa	legenere	Campanulaceae	Apr-Jun	None	None	1B.1	Vernal pools

Showing 1 to 8 of 8 entries

Suggested Citation:

California Native Plant Society, Rare Plant Program. 2022. Inventory of Rare and Endangered Plants of California (online edition, v9-01 1.0). Website https://www.rareplants.cnps.org [accessed 25 January 2022].

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ATTACHMENT B

NRCS SOILS REPORT

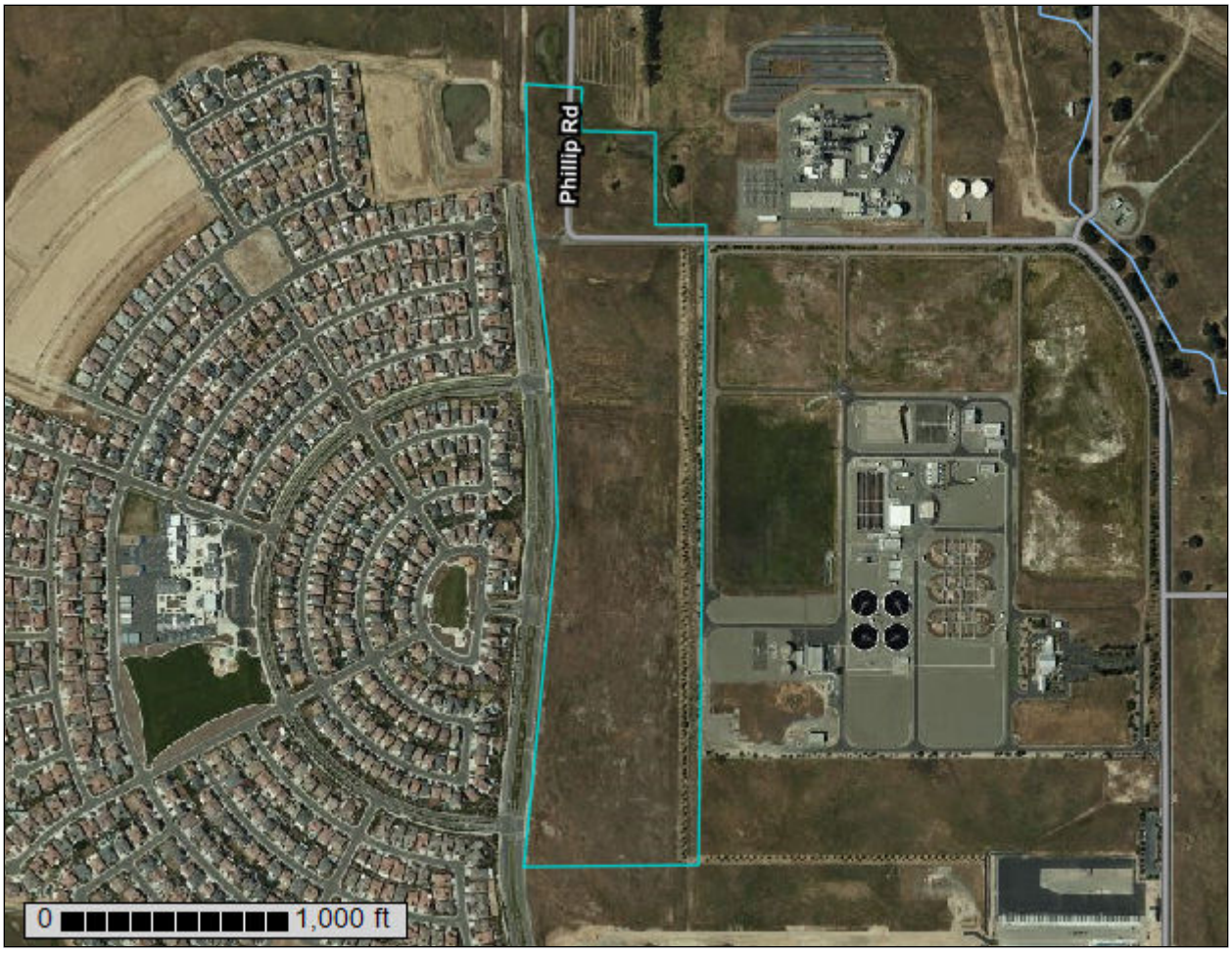
United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Placer County, California, Western Part



April 19, 2022

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

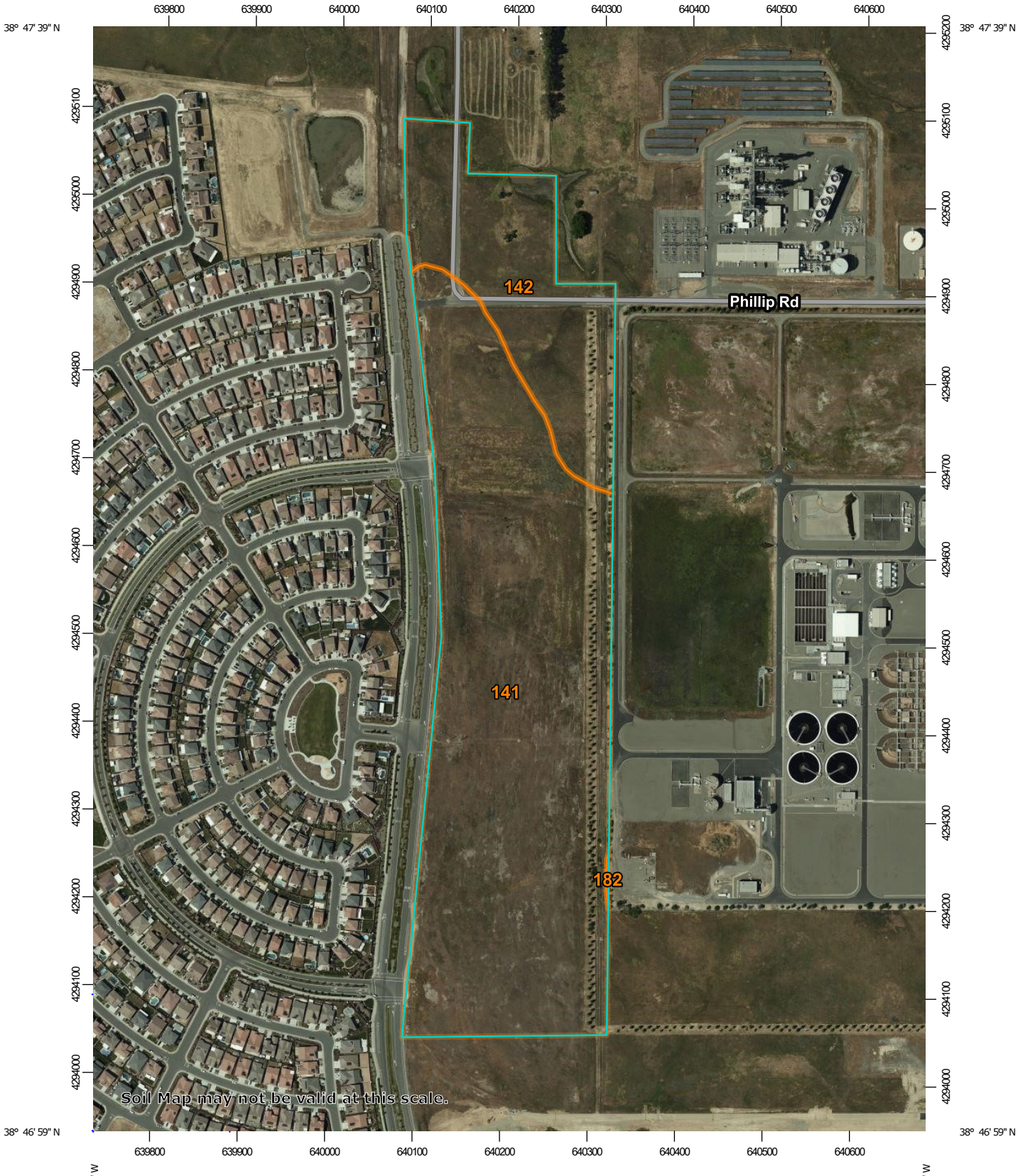
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



Map Scale: 1:6,130 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 50 100 200 300

Feet
0 250 500 1000 1500

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Placer County, California, Western Part
Survey Area Data: Version 13, Sep 3, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 11, 2019—May 12, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
141	Cometa-Fiddyment complex, 1 to 5 percent slopes	39.3	76.5%
142	Cometa-Ramona sandy loams, 1 to 5 percent slopes	12.0	23.4%
182	San Joaquin-Cometa sandy loams, 1 to 5 percent slopes	0.0	0.1%
Totals for Area of Interest		**51.4**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or

landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Placer County, California, Western Part

141—Cometa-Fiddyment complex, 1 to 5 percent slopes

Map Unit Setting

National map unit symbol: hfzk
Elevation: 20 to 400 feet
Mean annual precipitation: 10 to 23 inches
Mean annual air temperature: 61 to 63 degrees F
Frost-free period: 230 to 300 days
Farmland classification: Not prime farmland

Map Unit Composition

Cometa and similar soils: 40 percent
Fiddyment and similar soils: 30 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cometa

Setting

Landform: Terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 18 inches: sandy loam
H2 - 18 to 29 inches: clay
H3 - 29 to 60 inches: sandy loam

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: D
Ecological site: R017XD093CA - CLAYPAN
Hydric soil rating: No

Description of Fiddyment

Setting

Landform: Ridges

Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from siltstone

Typical profile

H1 - 0 to 12 inches: loam
H2 - 12 to 28 inches: clay loam
H3 - 28 to 35 inches: indurated
H4 - 35 to 39 inches: weathered bedrock

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: 20 to 35 inches to duripan; 35 to 39 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: D
Ecological site: R017XD093CA - CLAYPAN
Hydric soil rating: No

Minor Components

Kaseberg, loam

Percent of map unit: 10 percent
Hydric soil rating: No

San joaquin, sandy loam

Percent of map unit: 10 percent
Hydric soil rating: No

Ramona, sandy loam

Percent of map unit: 5 percent
Hydric soil rating: No

Alamo, clay

Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

142—Cometa-Ramona sandy loams, 1 to 5 percent slopes

Map Unit Setting

National map unit symbol: hfzl
Elevation: 20 to 3,500 feet
Mean annual precipitation: 10 to 23 inches
Mean annual air temperature: 63 degrees F
Frost-free period: 230 to 320 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Cometa and similar soils: 50 percent
Ramona and similar soils: 30 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cometa

Setting

Landform: Terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 18 inches: sandy loam
H2 - 18 to 29 inches: clay
H3 - 29 to 60 inches: sandy loam

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.2 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: D
Hydric soil rating: No

Description of Ramona

Setting

Landform: Terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 6 inches: sandy loam
H2 - 6 to 14 inches: loam
H3 - 14 to 55 inches: sandy clay loam
H4 - 55 to 73 inches: gravelly sandy loam

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

San joaquin

Percent of map unit: 5 percent
Hydric soil rating: No

Fiddyment

Percent of map unit: 5 percent
Hydric soil rating: No

Xerofluvent

Percent of map unit: 5 percent
Landform: Drainageways
Hydric soil rating: Yes

Alamo

Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

182—San Joaquin-Cometa sandy loams, 1 to 5 percent slopes

Map Unit Setting

National map unit symbol: hg0w
Elevation: 20 to 500 feet
Mean annual precipitation: 10 to 23 inches
Mean annual air temperature: 61 to 63 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Not prime farmland

Map Unit Composition

San joaquin and similar soils: 40 percent
Cometa and similar soils: 30 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of San Joaquin

Setting

Landform: Terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 15 inches: sandy loam
H2 - 15 to 35 inches: clay loam
H3 - 35 to 50 inches: indurated
H4 - 50 to 60 inches: stratified sandy loam to loam

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: More than 80 inches; 35 to 50 inches to duripan
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 1.8 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: D
Ecological site: R017XD093CA - CLAYPAN

Hydric soil rating: No

Description of Cometa

Setting

Landform: Terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 18 inches: sandy loam
H2 - 18 to 29 inches: clay
H3 - 29 to 60 inches: sandy loam

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: D
Ecological site: R017XD093CA - CLAYPAN
Hydric soil rating: No

Minor Components

Ramona

Percent of map unit: 10 percent
Hydric soil rating: No

Fiddyment

Percent of map unit: 10 percent
Hydric soil rating: No

Kaseberg

Percent of map unit: 5 percent
Hydric soil rating: No

Alamo

Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

ATTACHMENT G

CULTURAL RESOURCES LETTER REPORT

APPENDIX G

Cultural Resources Survey for the
City of Roseville Soccer Complex Project
Placer County, California
Confidential

Sensitive archaeological material may have been removed from this Initial Study. The legal authority to restrict cultural resource information can be found in California Government Code sections 6254.10 and 6254®; California Code of Regulations Section 15120(d); and Section 304 of the National Historic Preservation Act of 1966.

ATTACHMENT H

TRANSPORTATION IMPACT STUDY

City of Roseville Soccer Complex

Transportation Impact Study

Prepared for:
The City of Roseville

June 2022

RS22-4167

FEHR PEERS

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1. Introduction

Purpose

This study describes existing transportation conditions (environmental and regulatory) and analyzes the potential of the proposed City of Roseville Soccer Complex project (the project) to affect the surrounding transportation environment in accordance with current State CEQA Guidelines. The analysis evaluates potential impacts to vehicle miles traveled (VMT) and transit, bicycle, and pedestrian components of the transportation system that may result from the proposed project. Where necessary and feasible, mitigation measures are identified to reduce these impacts.

Additionally, this study presents an evaluation of the project's effects on peak hour traffic operations at nearby study intersections (see Chapter 7). This analysis is presented separately from the transportation impact analysis in accordance with the State CEQA Guidelines, which no longer permit the use of project effects on automobile delay for the purposes of identifying environmental impacts for land use projects. This analysis has been prepared for two primary reasons. First, it directly addresses the proposed project's consistency with City of Roseville General Plan policies related to peak hour traffic operations, including automobile delay and level of service (LOS). Second, it informs an evaluation of project site access and circulation.

Project Description

Figure 1 shows the project location. The project would be located within the West Roseville Specific Plan area along the east side of Westbrook Boulevard, south of Blue Oaks Boulevard and north of Pleasant Grove Boulevard. The Pleasant Grove Wastewater Treatment Plant borders the project site to the east. The project site is currently vacant.

Buildout of the project would consist of ten multi-sport fields, two restroom buildings, one concession building, picnic shelters, a 1-acre accessible playground, and a maintenance yard. A total of 610 off-street parking spaces would be provided on the project site, with 360 parking spaces provided in the north parking lot and 250 parking spaces provided in the south parking lot.

Refer to Chapter 4 for a discussion of the project's expected operations during weekdays and on weekends.

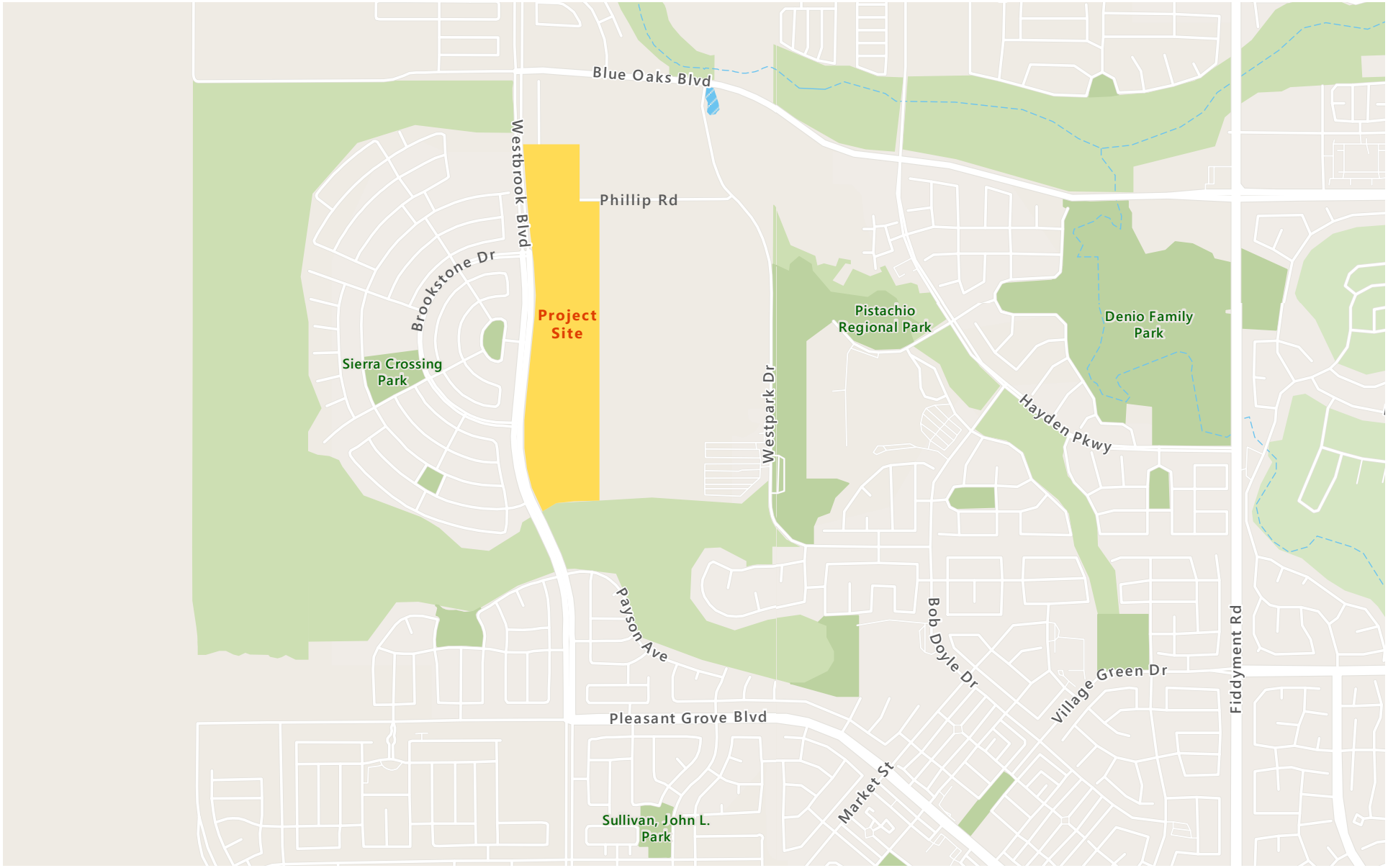


Figure 1

Project Location

2. Environmental Setting

This section describes the existing environmental setting, which is the baseline scenario upon which project-specific impacts are evaluated. The environmental setting for transportation includes baseline descriptions for roadway, bicycle, pedestrian, and transit facilities as of April 2022.

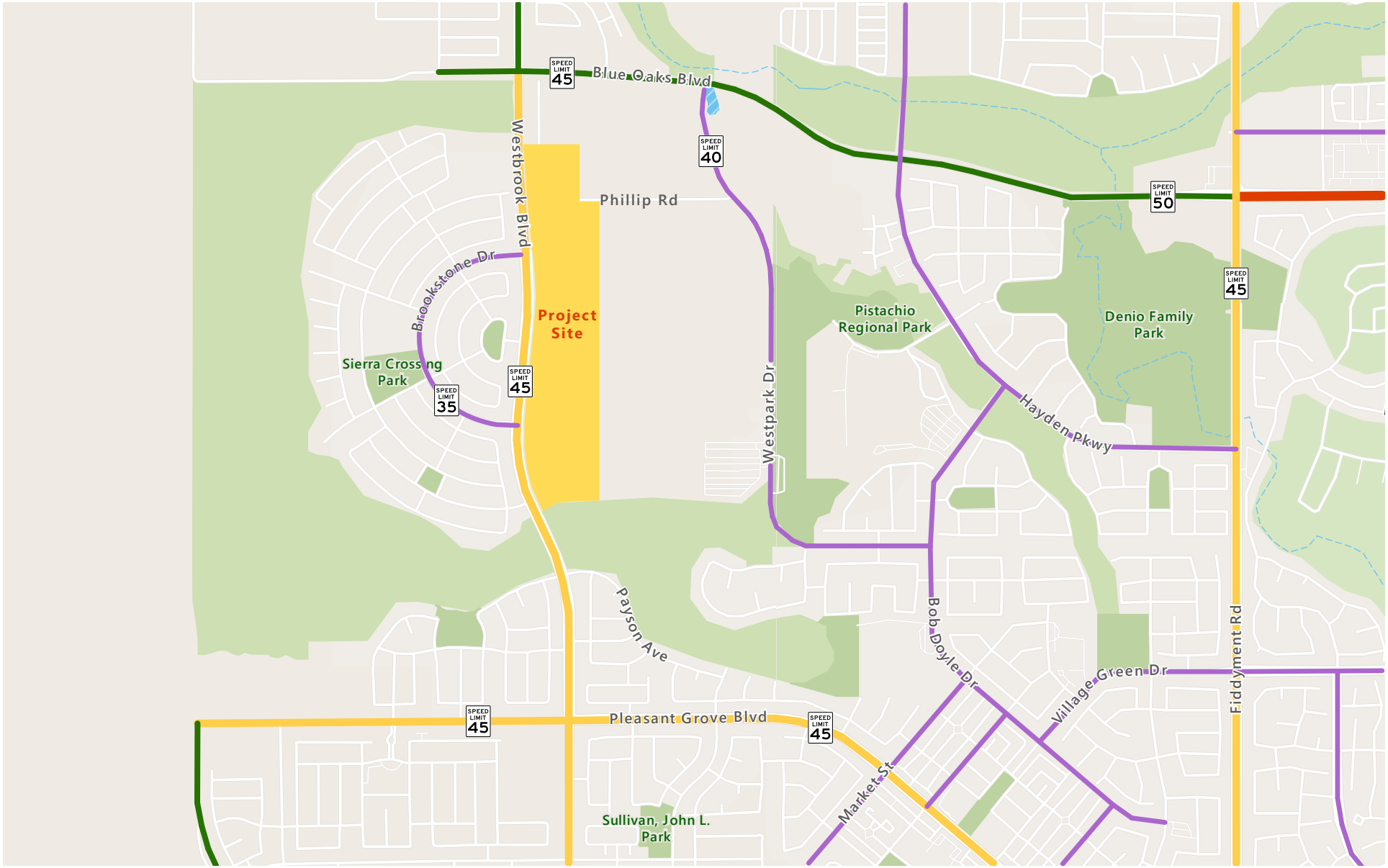
Roadway System

Figure 2 illustrates the existing roadway network in the study area including the roadway classifications, number of travel lanes, and posted speed limits. The project site is located within the West Roseville Specific Plan area, which is actively being developed. As a result, the current roadway network is partially built but not fully connected. The following key roadways would serve the project site:

- **Westbrook Boulevard** is a north-south arterial that currently begins a short distance north of Blue Oaks Boulevard and extends for a distance of 2.2 miles to its existing southern terminus south of Pleasant Grove Boulevard. The constructed portion of the roadway has two lanes in each direction, separated by a landscaped median. The posted speed limit is 40 miles per hour (mph). Westbrook Boulevard is planned for widening to six lanes and will ultimately extend from Baseline Road on the south to Sunset Boulevard West on the north (within unincorporated Placer County).
- **Blue Oaks Boulevard** is an east-west major arterial that connects the Cities of Roseville and Rocklin. It begins a short distance west of Westbrook Boulevard in west Roseville and extends 6.5 miles, terminating at Sunset Boulevard in Rocklin. West of Fiddyment Road, it has one lane in each direction separated by a striped median. Posted speed limits on this segment range from 45 to 50 mph. East of Fiddyment Road, it is a six-lane median-divided arterial with a posted speed limit of 45 mph. The State Route (SR) 65/Blue Oaks Boulevard interchange is situated about five miles east of the project site. From this interchange, SR 65 extends north towards the City of Lincoln and south towards Interstate 80. Near the project site, Blue Oaks Boulevard is planned for widening to six lanes.
- **Pleasant Grove Boulevard** is an east-west minor arterial that connects the Cities of Roseville and Rocklin. It begins a short distance west of Westbrook Boulevard in west Roseville and extends east into Rocklin, where it transitions into Park Avenue at the city limits east of Highland Park Drive. Near the project site, it is a four-lane median-divided arterial with a posted speed limit of 45 mph.
- **Phillip Road** is a two-lane roadway that begins at Westpark Drive and extends west into unincorporated Placer County. Phillip Road extends east-west between the project site and Westpark Drive and north-south between the project site and Westbrook Boulevard. The north-south segment of Phillip Road parallels Westbrook Boulevard and measures approximately 14

feet wide. The east-west segment of Phillip Road measures approximately 20 feet wide and primarily serves the Pleasant Grove Wastewater Treatment Plant and the Roseville Energy Park. Near the project site, Phillip Road has unpaved shoulders and lacks sidewalks. Phillip Road is discontinuous where it approaches the Blue Oaks Boulevard/Westbrook Boulevard intersection.

Refer to Chapter 7 (Traffic Operations Analysis) for an analysis of the existing peak hour operations of these roadway facilities.



Roadway Classification (Number of Lanes)

- Arterial (6 lanes)
- Arterial (4 lanes)
- Arterial (2 lanes)
- Collector (2 lanes)

Figure 2

Existing Roadway System

Bicycle Facilities

Bicycle facilities are typically categorized in the following classifications:

- **Class I Multi-Use Off-Street Paths** (also known as shared-use paths) are paved trails that are separated from roadways and allow for shared use by both cyclists and pedestrians.
- **Class II On-Street Bike Lanes** are designated for use by bicycles by striping, pavement legends, and signs.
- **Class III On-Street Bike Routes** are designated by signage for shared bicycle use with vehicles but do not necessarily include any additional pavement width for bicyclists.
- **Class IV Separated Bikeways** (also known as protected bikeways or cycle tracks) are separated bikeways improve upon buffered bike lanes by providing vertical separation between bike lanes and the adjacent travel lanes. Vertical separation can be provided with concrete curb and gutter, bollards or on-street parking.

Figure 3 displays existing bicycle facilities within the project vicinity. Class II bike lanes are present on Westbrook Boulevard (including along the Westbrook Boulevard project site frontage), Blue Oaks Boulevard, and Pleasant Grove Boulevard. A Class I shared-use path connects the Brookstone neighborhood west of the project site with neighborhoods to the south, Nichols Park, and Chilton Middle School.

Pedestrian Facilities

At present, given that the study area is partially built out, the existing pedestrian network is intermittent. Generally, sidewalks are present along roadway frontages on which development has occurred, including the westerly Westbrook Boulevard frontage from Octave Drive north to approximately 1,000 feet south of Blue Oaks Boulevard as well as on internal roadways within the Brookstone neighborhood.

Currently, sidewalks are not present along the project site Westbrook Boulevard frontage, with the exception of the easterly side of both the northerly and southerly Westbrook Boulevard/Brookstone Drive intersections. Additionally, sidewalks are not present on either side of Phillip Road between Westbrook Boulevard and Westpark Drive or on the southerly side of Blue Oaks Boulevard between Westbrook Boulevard and Hayden Parkway.

Blue Oaks Boulevard between Westbrook Boulevard and Fiddyment Road is a planned six-lane arterial. As of April 2022, the southerly half section has been constructed from Fiddyment Road westerly to beyond Hayden Parkway. From there, only the northerly half section has been constructed. This explains the lack of continuous sidewalks on both sides of the street (i.e., as they would be “throw-away” if built on the south side of the street west of Westpark Drive, for instance).

Marked crosswalks are present on the north, south, and west legs of both the northerly and southerly Westbrook Boulevard/Brookstone Drive all-way stop-controlled intersections.

Transit Service and Facilities

Roseville Transit, operated by the City of Roseville, provides fixed route bus, dial-a-ride, and paratransit services throughout the City. Fixed-route bus service is not currently provided within the project site vicinity. The nearest bus stop is located on Pleasant Grove Boulevard at Market Street (Route M), which is approximately 1.5 miles southeast of the project site. Roadways within the study area have been designed with bus turnouts to accommodate future fixed-route bus service. Farside bus turnouts are currently present on both northbound and southbound Westbrook Boulevard at Brookstone Drive South.

Roseville Transit dial-a-ride service provides point-to-point service to locations within Roseville city limits, including the project site. The service is available to the general public. A single-ride fare for the general public is $3.75. Passengers may also purchase 10-ride passes or discount fares for eligible passengers. Rides can be reserved between one and fourteen days in advance of the ride.

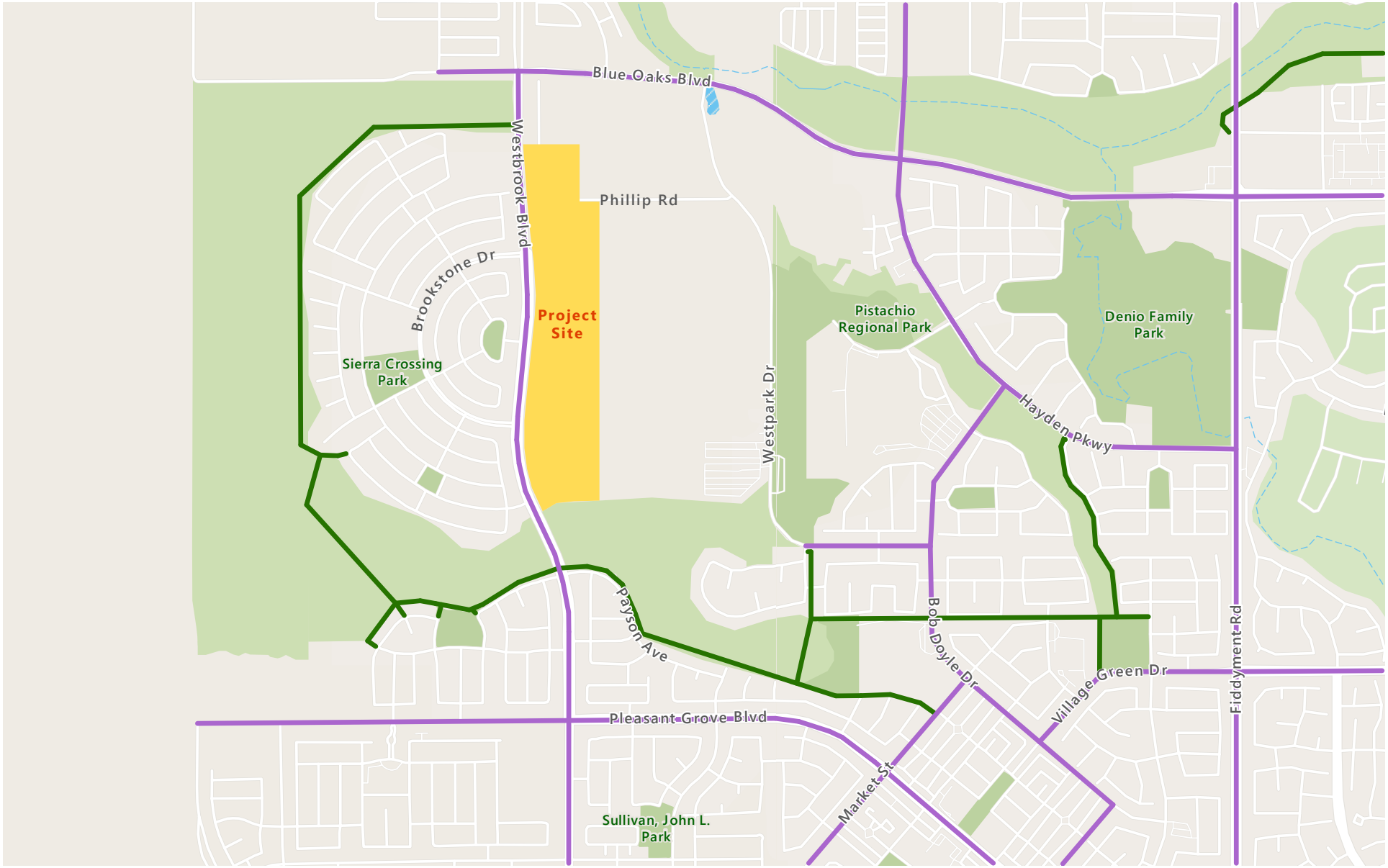


Figure 3

Existing Bicycle Facilities

3. Regulatory Setting

Existing transportation policies, laws, and regulations that would apply to the project are summarized below. This information provides a context for the impact discussion related to the project's consistency with applicable regulatory conditions and development of significance criteria (presented in Chapter 5) for evaluating project impacts.

State

California Department of Transportation

The California Department of Transportation (Caltrans) is responsible for planning, designing, constructing, operating, and maintaining the State Highway System (SHS). Federal highway standards are implemented in California by Caltrans. Any improvements or modifications to the SHS would need to be approved by Caltrans. The following Caltrans planning documents emphasize the State of California's focus on transportation infrastructure that supports mobility choice through multimodal options, smart growth, and efficient development.

- *Smart Mobility 2010: A Call to Action for the New Decade* (Caltrans, 2010a).
- *Complete Streets Implementation Action Plan* (Caltrans, 2010b).
- *California Transportation Plan 2040* (Caltrans, 2016a).
- *Strategic Management Plan 2015-2020—2019 Update* (Caltrans, 2019a).

Caltrans' Local Development – Intergovernmental Review Program (LD-IGR) provides guidance on the evaluation of traffic impacts to State highway facilities. The *Vehicle Miles Traveled-Focused Transportation Impact Study Guide* (Caltrans, May 20, 2020) provides guidance on the evaluation of traffic impacts to State highway facilities. This study guide provides guidance to Caltrans Districts, lead agencies, tribal governments, developers, and consultants based on changes to the agency's review process for transportation analysis of land use projects and plans under the updated State CEQA Guidelines. The guide outlines how Caltrans will review land use projects with a focus on supporting state land use goals, state planning priorities, and GHG emission reduction goals. It also identifies the possible transportation impacts on the SHS and potential non-capacity increasing mitigation measures for land use projects. The guide also emphasizes that VMT analysis is the primary review focus of Caltrans and references OPR's Technical Advisory as a basis for its guidance, referencing screening thresholds that would identify projects presumed to have a less-than-significant transportation impact. Notably, it recommends use of the thresholds in the Technical Advisory for land use projects. Caltrans supports streamlining for projects that meet these screening thresholds because they help achieve VMT reduction and mode shift goals.

The *Interim Local Development Intergovernmental Review Safety Review Practitioners Guidance* (Caltrans, December 18, 2020) provides updated guidance to Caltrans Districts, lead agencies, developers, and consultants conducting safety review for proposed land use projects and plans that would affect the State Highway System. The interim guidance recommends that safety analyses include a review of three primary elements related to transportation safety—design standard compliance, collision history, and collision risk (consistent with the Federal Highway Administration's Systemic Approach to Safety). The interim guidance does not establish specific analysis methods or significance thresholds for determining safety impacts under CEQA. Additionally, Caltrans notes that local agencies may use the interim guidance at their own discretion as a guide for review of local facilities. Finally, the interim guidance states that Caltrans District traffic safety staff will use available data to determine if the proposed project may influence or contribute to significant impacts to the State Highway System.

Senate Bill 743

SB 743, passed in 2013, required the California Governor's Office of Planning and Research (OPR) to develop new guidelines that address transportation metrics under CEQA. Enacted as part of SB 743 (2013), PRC section 21099, subdivision (b)(1), directed the OPR to prepare, develop, and transmit to the Secretary of the Natural Resources Agency for certification and adoption proposed CEQA Guidelines addressing "criteria for determining the significance of transportation impacts of projects within transit priority areas. Those criteria shall promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses. In developing the criteria, [OPR] shall recommend potential metrics to measure transportation impacts that may include, but are not limited to, vehicle miles traveled, vehicle miles traveled per capita, automobile trip generation rates, or automobile trips generated."

Subdivision (b)(2) of PRC section 21099 further provides that "[u]pon certification of the guidelines by the Secretary of the Natural Resources Agency pursuant to this section, automobile delay, as described solely by level of service or similar measures of vehicular capacity or traffic congestion shall not be considered a significant impact on the environment pursuant to [CEQA], except in locations specifically identified in the guidelines, if any."

OPR published its proposal for the comprehensive updates to the CEQA Guidelines in November 2017 which included proposed updates related to analyzing transportation impacts pursuant to SB 743. The updated CEQA Guidelines were adopted on December 28, 2018; and according to the new CEQA Guidelines Section 15064.3, VMT replaced congestion as the metric for determining transportation impacts. The guidelines state that "lead agencies may elect to be governed by these provisions of this section immediately. Beginning July 1, 2020, the provisions of this section shall apply statewide."



To provide guidance to agencies implementing the new CEQA requirements, OPR published the *Technical Advisory on Evaluating Transportation Impacts in CEQA* (Technical Advisory) in December 2018. The Technical Advisory describes considerations agencies may use in selecting VMT metrics, calculation methodologies, and significance thresholds. The Technical Advisory does not mandate the use of specific metrics, methodologies or significance thresholds, because agencies have discretion to select those that are appropriate for the local land use and transportation context.

Local

City of Roseville 2035 General Plan

The following policies from the *City of Roseville 2035 General Plan* (2020) are applicable to the project.

- **Policy CIRC1.4:** Maintain a system of truck routes to provide for the safe and efficient movement of goods and to avoid impacting residential neighborhoods.
- **Policy CIRC3.1:** Promote transit service that is convenient, cost-effective, and responsive to the challenges and opportunities of serving Roseville and surrounding communities, and explore opportunities for transit innovation and service improvements.
- **Policy CIRC3.5:** Consider access to health care, community services and employment, and the needs of persons who may be transit-dependent when making decisions regarding transit service.
- **Policy CIRC3.7:** Pursue transit routes that optimize ridership.
- **Policy CIRC4.1:** The City will review and condition projects as appropriate, to reduce travel demand per capita and per employee by promoting increased density near transit, improving the quality of non-vehicular transportation options, providing incentives for non-vehicular travel, encouraging the mixing of complementary land uses in proximity to one another, and using other feasible methods.
- **Policy CIRC4.3:** Specific Plan Amendments and land use development projects not included in a Specific Plan shall be evaluated for consistency with the City's VMT Impact Standards.
- **Policy CIRC4.4:** If the evaluation required by CIRC4.3 finds a Specific Plan Amendment or land use development project not included in an adopted Specific Plan is inconsistent with thresholds established within the City's VMT Impact Standards, on-site land use, transportation, and urban design-related VMT-reducing features should be prioritized to demonstrate consistency. If feasible on-site features cannot achieve the VMT threshold, Specific Plan Amendments and land use development projects outside Specific Plan Areas may demonstrate equivalent consistency through off-site actions or fair-share fee contributions, or if consistency cannot be achieved, shall implement all feasible measures.

- **Policy CIRC5.1:** Develop a comprehensive and safe system of recreational and commuter bicycle routes and trails that provides connections between the City's major destinations (including employment) and housing areas and between its existing and planned bikeways.
- **Policy CIRC6.1:** Establish and maintain a safe and continuous pedestrian network that provides connections between residential areas and commercial retail and services, employment, public services, parks, and public transit.
- **Policy CIRC6.3:** Enhance pedestrian-friendly street environments and design public spaces and destinations in a way that encourages walking.
- **Policy CIRC6.4:** Sidewalks shall be required in all new Specific Plan Areas, with new roadway construction, and with roadway expansion.
- **Policy CIRC6.5:** In reviewing proposed development projects and implementing public projects, the City will incorporate standards designed to protect the security of pedestrians and minimize the potential for collisions involving pedestrians.

West Roseville Specific Plan

The *City of Roseville West Roseville Specific Plan (WRSP)* (Amended March 17, 2021) guides the development of approximately 3,162 acres located to the west of Fiddyment Road.

Figure 4-1 of the WRSP illustrates the planned land uses within the WRSP area. The project site encompasses the following three parcels:

- W-50E – 3.1 acres of Park uses
- W-60A – 25.2 acres of Park (Sports Complex) uses
- W-60B – 30 acres of Light Industrial uses

Figure 7-1 of the WRSP illustrates the planned roadway system within the WRSP area. At buildout, the WRSP identifies the following major roadway facilities within the project site vicinity:

- Blue Oaks Boulevard is planned for a six-lane arterial.
- Westbrook Boulevard (previously referred to as West Side Drive) is planned for a six-lane arterial.
- Pleasant Grove Boulevard is planned for a four-lane arterial.
- New traffic signals are planned for the intersections of Blue Oaks Boulevard/Westbrook Boulevard, Blue Oaks Boulevard/Westpark Drive, Westbrook Boulevard/Brookstone Drive North, and Westbrook Boulevard/Brookstone Drive South.

The WRSP requires the provision of sidewalks on all WRSP area roadways. Planned bikeways include Class II bike lanes on all arterial and collector roadways (including Westbrook Boulevard, Pleasant Grove Boulevard, and Blue Oaks Boulevard) and a network of off-street Class I shared-use paths.

Traffic Impact Fee Programs

The City currently participates in four traffic mitigation fee programs to fund capital projects in Roseville and south Placer County. Within the City, traffic impact fees are used to fund improvements contained in the Capital Improvement Program (CIP). The funding for those improvements is nexus-based and is designed to fund improvements. The fee structure considers both the number and length of trips generated by new land developments. As such, it is considered a type of VMT-based fee program. The traffic mitigation fees are collected by the participating agencies at building permit issuance. The payment of Roseville impact fees in lieu of improvements has typically been determined to be acceptable mitigation for transportation impacts caused by a project.

City of Roseville Bicycle Master Plan

The *City of Roseville Bicycle Master Plan* (2008) includes the following policies that are relevant to the project:

- Support facilities that encourage bicycling should, to the extent feasible, be made a standard component of all new public and private projects.
- Provide short-term bike parking (bike racks) conveniently located at businesses entrances and safe, secure long-term covered bike parking (lockers, cages, rooms) at employment sites.
- Where construction operations occur near Class II or III bikeways, the developer/contractor will be responsible for maintaining clear and clean paths of travel.
- Street maintenance overlay projects and other construction projects within the public right-of-way and along designated bikeways shall be reviewed for conformance with the Bicycle Master Plan. Where existing facilities are not in conformance with the Bicycle Master Plan and current City standards, the facilities may be brought up to standards where determined feasible by the Public Works Director/City Engineer.

Figure 5 of the Bicycle Master Plan illustrates future proposed bicycle facilities throughout the City. Within the project site vicinity, the Bicycle Master Plan identifies new Class II bike lanes and a new Class I shared-use path on Westpark Drive. Additionally, the Bicycle Master Plan identifies a new Class I shared-use path along Kaseberg Creek (generally traversing east-west along the northerly side of Blue Oaks Boulevard).

City of Roseville Pedestrian Master Plan

The *City of Roseville Pedestrian Master Plan* (2011) was adopted by the City Council to establish policies, projects, and programs that improve the pedestrian system in Roseville and increase walking for transportation, recreation, and health. The Pedestrian Master Plan includes goals, policies, and implementation measures for pedestrian improvements and programs; a recommended pedestrian network; and a Capital Improvements Program (CIP) that establishes a 20-year framework for

improvements to the pedestrian environment. The Pedestrian Master Plan includes the following policies that are relevant to the project:

- Provide continuous and direct pedestrian connections between residential areas, schools, shopping areas, public services, employment centers, parks, and public transit stops.
- Include sidewalks in the planning and design of all new, reconstructed or widened streets. Sidewalks should be installed on both sides of the street, unless circumstances call for an exception.
- Sidewalks and street crossings should provide access for all people, regardless of physical abilities, consistent with the Americans with Disabilities Act (ADA) and ADA Transition Plan.

Figure 8 of the Pedestrian Master Plan illustrates ranked sidewalk gap closure projects throughout the City. The Pedestrian Master Plan does not identify ranked sidewalk gap closure projects within the project site vicinity.

City of Roseville Final Short-Range Transit Plan 2018–2025

The *City of Roseville Final Short-Range Transit Plan (SRTP) 2018-2025* (LSC 2018) provides a detailed business plan to guide transit improvements in the City. The plan reviews demographics and transit needs, evaluates effectiveness and efficiency of existing services, analyzes a wide range of system options, and provides operational, capital and institutional plans, including an implementation plan. The City's plan was prepared jointly with the development of parallel SRTPs for Placer County Transit, Auburn Transit, and the Western Placer Consolidated Transit Service Agency. The plan acknowledges there are many large development projects in West Roseville that could increase transit demand in the area by 2025. To this end, Figure 25 of the SRTP shows three concept bus routes that would operate on Blue Oaks Boulevard, Pleasant Grove Boulevard, or Vista Grande Boulevard west of Fiddyment Road.

The SRTP recommends a detailed transit master planning process for West Roseville. As noted on page 170 of the SRTP, "While general land uses and policies have been defined for these areas (including the need for transit services and the provision of funding strategies for transit), specific routes, stops and schedules will depend on more detailed planning to be developed over the next several years. Once this detail is available, transit master planning for these areas should be conducted. An additional route into the area along the Blue Oaks Boulevard corridor will ultimately be warranted."

City of Roseville Design and Construction Standards

Section 4 of the *2021 Amendments to City of Roseville Design and Construction Standards* provides guidance for how to analyze VMT impacts of proposed land developments within the City. The following



guidance and recommendations are contained in that document (City of Roseville 2021a: TS16 through TS22):

- A project may be screened from additional VMT analysis if it meets any of nine distinct screening criteria.
- A quantitative study of VMT analysis is generally required if the project does not meet any of the conditions for screening. For non-residential projects, analysis should be based on VMT per service population, where service population consists of the total number of residents and employees. The service population methodology includes home-based production VMT and VMT from all other sources, including trips attracted from homes outside of the area into the area for work, shopping, or other purposes and trips with neither end at the home (such as from work to shopping). VMT is based on the full length of each trip, including distance outside of the City. VMT estimates are to be produced using the City of Roseville travel demand model.
- An alternative metric (e.g., VMT/employee) may be applied if it relies on the data and analysis of the current citywide VMT analysis and is reviewed and approved by the City.
- Factors to convert Roseville travel forecasting model inputs (i.e., square footage) to employment (as used in development of the General Plan) are presented in Table VMT-1 of the General Plan.
- The analysis conducted for VMT studies shall be documented in a report for review by the City, with supporting tables and figures. It shall be the intent of the VMT study to evaluate the reasonable worst-case impacts for the proposed development allowed by zoning unless a specific use/user is identified by the applicant.
- A project would have a significant impact if it exceeded a threshold of which is 15 percent below existing Citywide development VMT (baseline VMT per service population for non-residential projects).
- If a proposed project can be shown to result in a net overall decrease in total City VMT when compared to baseline VMT, the project would lead to a less-than-significant transportation impact.
- If screening is not used, explanation should be provided on how VMT was calculated. This should include a description of metrics, models and tools, inputs for the analysis, and thresholds used.
- If it is concluded that the project would exceed the significance threshold, a list of feasible mitigation measures which would either reduce impacts to below the threshold, or reduce impacts to the extent feasible shall be provided, beginning with on-site measures. The VMT-reducing effects of each measure shall be quantified to the extent feasible.

4. Project Travel Characteristics

This section describes the expected travel characteristics of the proposed project, including its trip generation and trip distribution.

Project Description

Buildout of the project would consist of ten multi-sport fields, two restroom buildings, one concession building, picnic shelters, a 1-acre accessible playground, and a maintenance yard. Over 950 off-street parking spaces would be provided on the project site, with 543 parking spaces provided in the northerly parking lot and 419 parking spaces provided in the southerly parking lot.

Project programming and operations would be as follows:

- During weekdays, the complex would be used for practices that run from 3 PM to 10 PM. According to the City, it is anticipated that the complex would operate with up to five 1.5-hour practice timeslots beginning at 3 PM, 4:30 PM, 6 PM, 7:30 PM, and 9 PM. Additionally, the City anticipates that each practice timeslot would accommodate up to two teams per field, which would result in up to 20 teams utilizing the complex during each practice timeslot. A total of 100 teams could practice at the facility in a single weekday.
- During weekends, the complex would be used for tournaments and league play. The tournaments would include both regional/national draws and local draws. Games would run from 8 AM to 8 PM. The City anticipates that parking fees would be collected from teams as part of the tournament registration process and not on-site during tournaments. This is important for two reasons. First, the lack of on-site parking payment would reduce the likelihood that people would park off-site to avoid parking costs. Second, the lack of on-site parking payment transactions would eliminate delays incurred to entering vehicles typically associated with cash, credit card, etc. payment transactions.

Vehicular access to and from the project site would be provided via Westbrook Boulevard and Phillip Road. For the northerly parking lot, the Westbrook Boulevard/Brookstone Drive North intersection would provide ingress and egress and Phillip Road would provide egress only. For the southerly parking lot, the Westbrook Boulevard/Brookstone Drive South intersection would provide ingress and egress. The northerly and southerly parking lots would not be connected via an internal roadway or drive aisle.

The project would include the following modifications to both the northerly and southerly Westbrook Boulevard/Brookstone Drive intersections:

- Construction of a new east leg. The westbound approach would include two lanes – a shared through-left lane and a right-turn lane.
- Construction of a northbound right-turn pocket with a storage length of approximately 220 feet.

The project does not propose to modify the existing all-way stop-control or marked crosswalks at either the northerly or southerly Westbrook Boulevard/Brookstone Drive intersection.

The project would construct new sidewalks along the Westbrook Boulevard project site frontage, as well as a new north-south pedestrian path through the center of the project site. The project would include bus parking within the on-site parking lots.

The project site would occupy a portion of the existing Phillip Road alignment. With the implementation of the project, the east-west segment of Phillip Road would have a new westerly terminus at the project's northerly parking lot (i.e., this segment of Phillip Road would extend between Westpark Drive and the project site). The north-south segment of Phillip Road would not provide access to the project site.

Trip Generation

This study utilizes locally derived trip generation data to estimate project trip generation, consistent with the approach utilized in the *Final Transportation Impact Study for Placer Valley Sports Complex in Roseville, CA* (March 2016).

Need for Locally Derived Trip Generation Data

The *Trip Generation Manual, 11th Edition* (Institute of Transportation Engineers, 2021) is a nationally recognized source of trip generation information for a wide variety of land use types. This resource includes the Soccer Complex (488) Land Use Category. However, the data points used to derive the trip rates associated with this land use category are limited, and critical information regarding the trip rates is not provided (e.g., the 60-minute period corresponding to the peak hour, the degree of peaking within the peak hour, etc.).

The *Trip Generation Handbook, 3rd Edition* (Institute of Transportation Engineers, 2017) recommends that local data be used when data points are limited. The analysis methodology presented in this study follows this guidance.

Data Collection at Saturday Tournaments

Fehr & Peers conducted Saturday traffic counts and field observations at the following soccer tournaments:

- Rick Hitch Roseville Tournament at Maidu Regional Park on Saturday, August 15, 2015
- Placer United Girls Cup at Cherry Island Soccer Complex on Saturday, October 24, 2015

This section describes each tournament in detail, data collection methods, resulting data, and conclusions.

Overview of Soccer Tournaments

Table 1 provides details for the two tournaments, including the date, number of soccer fields in use, game times, parking conditions, etc.

Although the soccer tournaments held at Cherry Island Soccer Complex and Maidu Regional Park were similar in some respects, they were also different in many key respects including:

- Number of fields – Cherry Island had 10 fields in use, whereas Maidu had 5 fields in use.
- Parking price – Cherry Island charged $8 to park on-site and also had free on-street parking, whereas parking at Maidu was free.
- Field Location/Accessibility – Cherry Island may be considered by many to have fewer quality restaurants and stores within a 15-minute drive than Maidu Regional Park. Additionally, it is likely that Cherry Island provided a more robust snack bar than Maidu given the larger size of the event. Finally, the primary entry to Maidu (signalized access from a four-lane arterial) provides greater ease of access than the two unsignalized accesses onto the two-lane streets serving Cherry Island.
- Soccer Team Change of Venue – Whereas the majority of teams playing at Maidu for the Rick Hitch Tournament played both games at that location, nearly 50 percent of teams who played a game at Cherry Island also played a game at a different location on that same Saturday.
- Origin of Soccer Teams – Whereas 83 percent of teams in the Rick Hitch Tournament (played at Maidu Regional Park and other venues) were from the SACOG region, only 37 percent of teams in the Placer United Girls Cup (played at Cherry Island and other venues) were from the SACOG region. The out of area teams traveled from the San Francisco Bay Area, Fresno, San Luis Obispo, Central San Joaquin Valley, and Nevada.



Table 1: Overview of Observed Soccer Tournaments in Sacramento Region

Characteristics	Rick Hitch Tournament at Maidu Regional Park	Placer United Girls Cup at Cherry Island Soccer Complex
Date of Count	Saturday, August 15, 2015	Saturday, October 24, 2015
Number of Fields in Use	5	10
Location	Roseville	Sacramento County
Game Times	8:00, 9:15, 10:30, 11:45, 1:00, 2:15, and 3:30	8:00, 9:20, 10:40, 12:00, 1:20, 2:40, and 4:00
Use of fields throughout day	Games played continuously on all fields for first 6 time slots. Slightly reduced use for 7th slot.	Games played continuously on all fields tor all 7 time slots.
Tournament Games Also Held at Other Venues	Yes	Yes
Soccer Team Change of Venue	Vast majority of teams played all Saturday games at Maidu	44 teams played two Saturday games at Cherry Island. 40 teams played one Saturday game at Cherry Island and one game at a different venue. 10 teams played a single Saturday game at Cherry Island.
Parking Fee	Free	$8 for vehicles parking on-site. No fee for vehicles parked on-street.
Adequacy of Parking Supply	Abundant parking was available	Parking demand nearly reached capacity. Some attendees had to park far from complex and walk.
Weather Conditions	Dry	Dry
Site proximity to nearby restaurants and amenities	5 minute drive to various restaurants and stores along Douglas Blvd.	5 minute drive to restaurants along Watt Avenue
Percentage of Local (within SACOG region) vs. Non-Local Teams	83%	37%

Note: Observed a.m. and p.m. peak hours for the existing University Mall were 8:00 a.m. to 9:00 a.m. and 4:30 p.m. to 5:30 p.m., respectively. University Mall was approximately 93 percent occupied at the time of the trip counts, equivalent to 96.436 occupied KSF.

Source: Fehr & Peers, 2015.

Overview of Data Collection Process

Table 2 describes the data collection process undertaken to perform traffic counts at each tournament. Fehr & Peers retained the count firm National Data Services (NDS) to assist with these efforts.

Field observations indicated that the parking areas for both facilities were well utilized during the counts. At Maidu Regional Park, although the main lots (closest to the fields) were often full, parking was always available along the gravel parking aisle on the south portion of the park. Fehr & Peers did not notice any recurring patterns of motorists entering the area, not finding parking, and then exiting to find a more remote space. However, some soccer-related groups were observed (and recorded) who chose to park in a parking area just beyond the traffic count location and walk to the fields.

Cherry Island Soccer Complex provides both paved parking as well as several unpaved areas within the complex. On-street parking is permitted along the site frontage on U Street and 28th Street, but not on the opposite side of the street ("No Parking" signs are posted).

In summary, the physical characteristics of each site, coupled with the use of experienced traffic count personnel, allowed for a high-quality empirical observations of the travel demand associated with each soccer tournament.

Traffic Count Results

Table 3 displays the estimated daily and peak hour trip generation of each soccer tournament on each count day. Key findings from this table include:

- The Rick Hitch Tournament at Maidu Regional Park was estimated to generate about 4,000 daily vehicles trips (2,000 inbound and 2,000 outbound). The peak hour of travel occurred from 10:15 to 11:15 AM with 537 trips (48 percent inbound and 52 percent outbound).
- The Placer United Girls Cup at Cherry Island Soccer Complex was estimated to generate about 4,300 daily vehicle trips (2,135 inbound and 2,174 outbound). The peak hour of traveled occurred from 9:00 to 10:00 AM with 540 trips (59 percent inbound and 41 percent outbound).

Additionally, 15-minute arrival and departure traffic flows were recorded during each tournament. Key findings from this data include:

- The Rick Hitch Tournament at Maidu Regional Park showed fairly modest peaks in 15-minute arrivals, but much more pronounced spikes in 15-minute departure flows beginning at 9:15 AM, 10:30 AM, 11:45 AM, and 1 PM. These periods correspond with the completion of the first four games of the day being played simultaneously on all fields.



- Similar to the Maidu observations, the Placer United Girls Cup at Cherry Island Soccer Complex showed spikes in departure flows at 9:15 AM, 10:45 AM, 12:00 PM, 1:15 PM, 2:30 PM, and 4:00 PM. These peaks occurred slightly later (by 15 minutes) due to the longer duration between successive games at Cherry Island versus Maidu.
- The Cherry Island counts indicated that 48 percent of all inbound traffic arrived before 10 AM. In contrast, 37 percent of all inbound traffic at Maidu arrived before 10 AM. The Cherry Island counts also showed a spike in departing traffic from 5:15 to 5:45 PM, in which 352 vehicles (16 percent of total) departed. The Maidu counts did not show a similar end of day spike in outbound travel.
- Between 10 AM and 2:30 PM, Maidu Regional Park generated 367 more trips than Cherry Island despite having half the number of fields.

Table 2: Overview of Traffic Data Collection

Characteristics	Rick Hitch Tournament at Maidu Regional Park	Placer United Girls Cup at Cherry Island Soccer Complex
Date of Count	Saturday, August 15, 2015	Saturday, October 24, 2015
Count Duration [1]	7 AM to 5 PM. In addition, parked vehicles were counted prior to 7 AM and after 5 PM.	7 AM to 6 PM. In addition, parked vehicles were counted prior to 7 AM and after 6 PM.
Other Activities On-Site	Adult softball on two nearby fields. Traffic counters separately classified vehicles associated with adult soccer and softball.	None
Description of Parking Facilities	Large surface lot near fields with two entry/exits. Secondary parking at nearby Maidu School.	On-site parking with entry/exit off U Street and exit-only off 28th Street. On-street parking permitted on U Street and 28th Street.
Data Collection Techniques	Traffic count personnel were stationed at each entry/exit lot. A camera was situated at the driveway entry to Maidu School.	Cameras were situated at the U Street and 28th Street driveways. Traffic count personnel were situated on U Street and 28th Street to record parking maneuvers.
On-Site Data Collection Oversight	John Gard, P.E.	David Stanek, P.E.

Note: [1] Vehicles present at each facility prior to the beginning of the count or after the end of the count period were considered tournament-related and included as part of the daily traffic estimate.
Source: Fehr & Peers, 2015.

Table 3 displays the trip generation rates per field for each soccer tournament. This table shows that the Rick Hitch Tournament at Maidu Regional Park had a measured trip rate that was nearly twice the rate observed for the Placer United Girls Cup at Cherry Island Soccer Complex.

This data has yielded the following key conclusions:

- The Rick Hitch Tournament at Maidu Regional Park had a 'per field' trip rate of nearly twice the rate observed at the Placer United Girls Cup at Cherry Island Soccer Complex. The difference in trip rates between these tournaments is a function of local versus regional team participation. This will be a critical distinction when analyzing the travel characteristics of the proposed project.
- The Rick Hitch Tournament showed substantially greater levels of mid-day departure and return activity than the Placer United Girls Cup. The Placer United Girls Cup had a greater proportion of early arrivals and late departures associated with a longer duration of stay.

Table 3: Results of Traffic Data Collection

Characteristics	Rick Hitch Tournament at Maidu Regional Park	Placer United Girls Cup at Cherry Island Soccer Complex
Date of Count	Saturday, August 15, 2015	Saturday, October 24, 2015
Daily Conditions		
Total Trips	4,000 vehicles (50% in / 50% out)[1]	4,300 vehicles (50% in / 50% out)[2]
Peak Hour of Generator		
Busiest Hour of Travel	10:15 – 11:15 AM	9:00 – 10:00 AM
Inbound Trips	263 vehicles (49%)	317 vehicles (59%)
Outbound Trips	274 vehicles 51%)	223 vehicles (41%)
Total Trips	537 vehicles	540 vehicles

Note: [1] Actual count consists of 1,941 inbound trips and 1,877 outbound trips recorded between 6:45 AM and 5:00 PM. Daily estimate of 2,000 inbound trips based on some vehicles that had already been parked prior to 6:45 AM, and infrequent parking along Johnson Ranch Drive (which was not counted). Field observations revealed that a number of vehicles were still parked on-site after 5 PM.
[2] Actual count consists of 2,135 inbound trips and 2,174 outbound trips recorded between 7 AM and 6:00 PM (including parked vehicles prior to 7 AM and after 6 PM). Minor discrepancy in inbound versus outbound travel likely due to inherent challenges of counting parking maneuvers.
Source: Fehr & Peers, 2015.

Weekday Practice Trip Generation

As described previously, the complex would accommodate practices during the evenings on weekdays. The complex would operate with up to five 1.5-hour practice timeslots beginning at 3 PM, 4:30 PM, 6 PM, 7:30 PM, and 9 PM, and each field would accommodate up to two teams during each practice timeslot. Altogether, the complex would accommodate up to 20 teams during each practice timeslot, and up to 100 teams during a weekday.

For the purposes of this study, the City indicated that the weekday practice trip generation estimates should assume full use of the complex to avoid understating the trip generation potential of the project. Additionally, the weekday practice trip generation estimates incorporate the following key characteristics:

- Each team would have an average of 16 players and 2 coaches present at practice, for a total of 18 personnel per team. This would result in a total of 360 personnel on-site during a single practice timeslot, and a total of 1,800 personnel during a typical weekday.
- Two-thirds of the players would be picked-up/dropped-off while one-third of the players would be driven by parents, family, etc. who would remain on site for the entire practice.
- Carpooling would result in an average vehicle occupancy (AVO) of 1.2 players per vehicle for player-generated vehicle trips and an AVO of 1.1 coaches per vehicle for coach-generated vehicle trips.

Existing weekday PM peak period traffic volume data (discussed in Chapter 7), indicates that the peak hour of adjacent street traffic is 4:30 PM to 5:30 PM. For the purposes of this study, the weekday PM peak hour project trip generation represents departure activity for the first practice timeslot at 3 PM and arrival activity for the practice timeslot at 4:30 PM.

Estimated Project Trip Generation

Table 4 displays the Saturday daily and AM peak hour trip generation of each type of soccer tournament, as well as the weekday daily and PM peak hour trip generation during a typical weekday with practices held at the complex.

Table 4: Roseville Soccer Complex Project – Vehicle Trip Generation

Analysis Scenario	Occupied Fields	Daily	Peak Hour[1]		
			In	Out	Total
Weekday[2]	10	4,800	480	480	960
Saturday (Tournament)[3]	10	8,000	537	537	1,074

Note: [1] Peak hours defined as 4:30 PM to 5:30 PM for weekdays and 10:15 AM to 11:15 AM for Saturday tournaments.
[2] Weekday estimates derived based on the following parameters:
Weekday practices would utilize all 10 fields during each of three practice timeslots at 3 PM, 4:30 PM, 6 PM, 7:30 PM, and 9 PM.
Each field would accommodate two teams per field during each practice timeslot.
Each team would have an average of 16 players and 2 coaches present at practice, for a total of 18 personnel per team.
Two-thirds of the players would be picked-up/dropped-off and one-third of the players would be drive/park.
Average vehicle occupancy (AVO) would be 1.2 for players and 1.1 for coaches.
[3] Estimates derived from observations recorded at the Rick Hitch Tournament at Maidu Regional Park on Saturday, August 15, 2015.
Source: Fehr & Peers, 2022.

Trip Distribution

Figure 4 displays the expected distribution of trips for a local/semi-regional soccer tournament. The percentages on Figure 8 are based on the following:

- Proportion of teams that are 'local' (83 percent within SACOG region) versus 'non-local' (17 percent) (i.e., stay overnight in a hotel is as customary for two-day soccer tournaments) based on an assessment of the residence of teams that participated in the Rick Hitch Tournament.
    - For 'non-local' teams, the anticipated hotels (based on advertised hotels on the Roseville Youth Soccer website) used for overstay nights (and routing from those hotels) was considered. For the majority of hotels, Pleasant Grove Boulevard would be the preferred east-west route to access the Westbrook Boulevard to arrive at the site.
    - For 'local' teams, the distribution first considered the proportion of teams that were from the north (i.e., Lincoln, Yuba-Sutter), east (i.e., Auburn, Loomis, Truckee, etc.), which would use SR 65. Local teams from the west and south were also considered. Of particular focus was the proportion of local teams that would travel through the I-5/I-80 interchange, which Google maps and other GIS applications would recommend travel be via State Route 99 to Riego Road.

- Once the overall spatial distribution of trips is determined, their final route choice was determined based on travel time surveys of available route choices.

Figure 5 shows the expected distribution of weekday soccer practices. Based on the project description, it is anticipated that the majority of attendees would come from local residential areas (i.e., from within the South Placer area or portions of unincorporated Sacramento County).

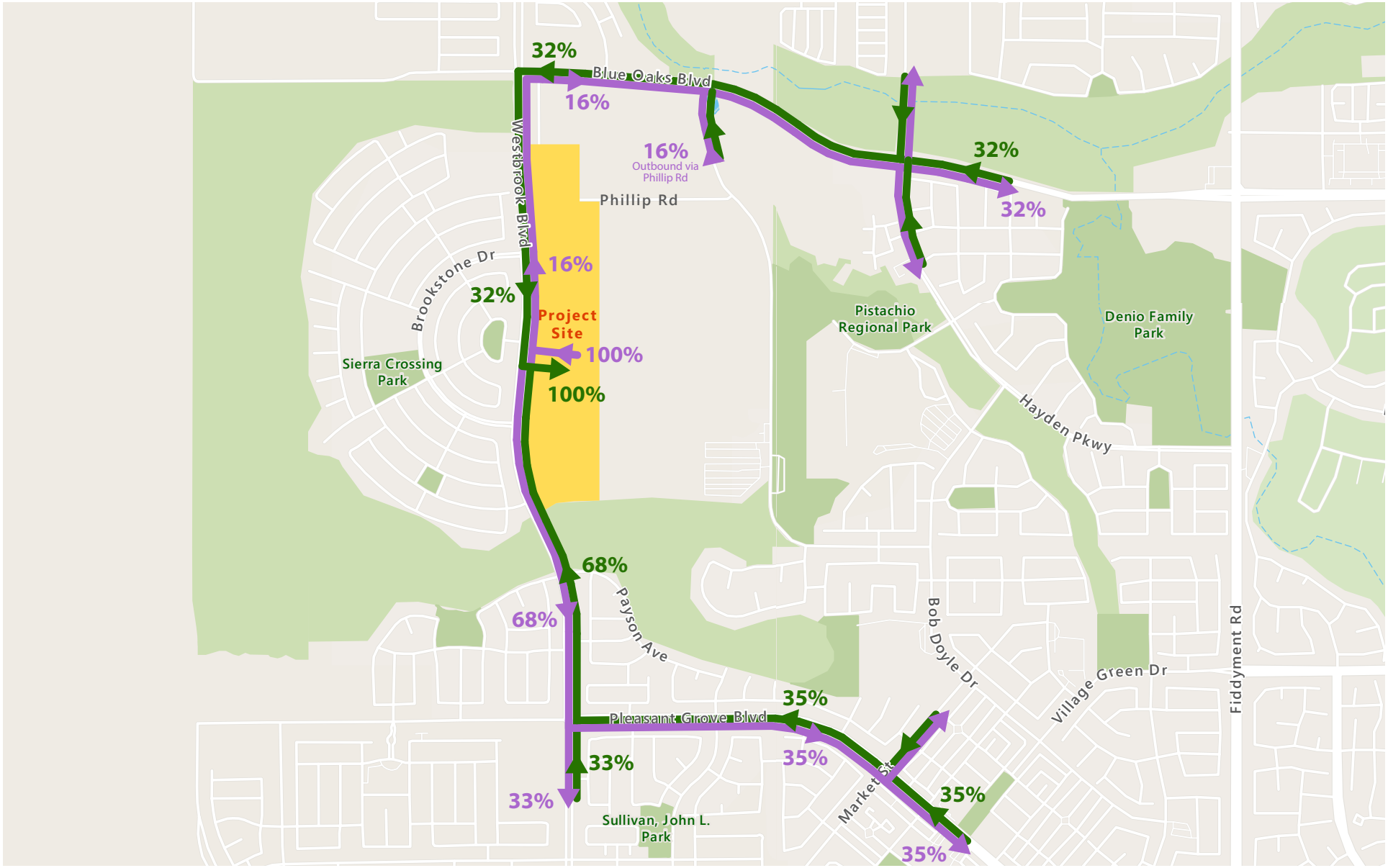


Figure 4

Project Trip Distribution - Local/Semi-Regional Soccer Tournaments

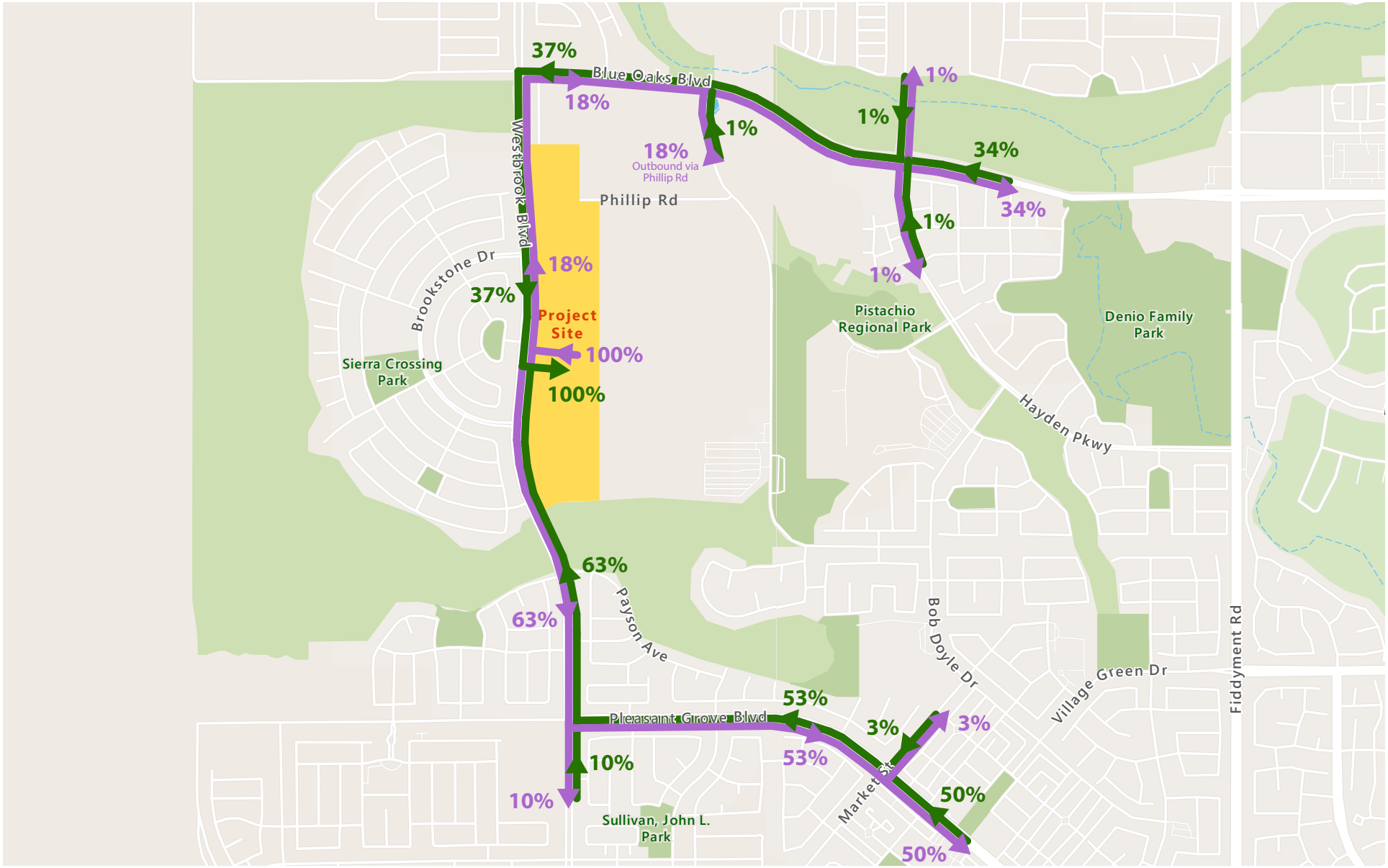


Figure 5

Project Trip Distribution - Weekday Local Soccer Practice

5. Significance Criteria

This section describes the significance criteria used to evaluate project impacts to the roadway system (via its VMT contribution) as well as to the bicycle, pedestrian, and transit systems. These thresholds are based on Appendix G of the State CEQA Guidelines and various City of Roseville published plans described in Chapter 3 "Regulatory Setting".

Impacts to the transportation system would be significant if the project would:

- **Roadway System**
  - Exceed the applicable VMT threshold.
- **Bicycle Facilities**
  - Conflict with adopted policies, plans, or programs regarding bicycle facilities.
- **Pedestrian Facilities**
  - Conflict with adopted policies, plans, or programs regarding pedestrian facilities.
- **Transit Service and Facilities**
  - Conflict with adopted policies, plans, or programs regarding transit facilities or service.
- **Hazards**
  - Substantially increase hazards due to geometric design features (e.g., sharp curves or dangerous intersections) or incompatible uses, or inadequate emergency access.

6. Impacts and Mitigation Measures

This chapter describes the evaluation of potential transportation impacts associated with the operation of the project and, in instances where the project would cause a significant impact, identifies potential mitigation measures that would lessen the severity of the impact.

Impact 1: Impacts to vehicle miles traveled (VMT).

Page 4.3-29 of the *City of Roseville General Plan Update Final EIR* (2020) contains the following statements regarding VMT analysis:

> *"Quantitative analysis would not be required if it can be demonstrated that a project is consistent with the General Plan and would generate VMT which is equivalent to or less than what was assumed in this General Plan EIR."*

Following the preparation of the General Plan Update and the accompanying *City of Roseville General Plan Update Final EIR*, the City's travel demand model and VMT metrics were updated as part of the City's Housing Element Update and accompanying *Final Transportation Impact Study for the Roseville Housing Element Update* (Fehr & Peers 2021). This effort was more than just a study of modifications in zoning for the Housing Element Update, which was adopted by the City Council on August 18, 2021 (City of Roseville 2021). Importantly, it accomplished the following:

1. Updated City of Roseville base year model to a February 2020 (pre-COVID) condition. Note that the prior model from the General Plan Update was validated to an approximately 2014-2016 condition.
2. Developed a new Year 2035 model.
3. Updated existing and Year 2035 citywide signalized intersection operating levels.
4. Updated the VMT per service population metrics.

Accordingly, the VMT impact analysis presented in the *Final Transportation Impact Study for the Roseville Housing Element Update* represents the most comprehensive and up-to-date VMT metrics for the City.

Page TI 16-22 of the *January 2021 Amendments to the City of Roseville Design and Constructions Standards* contains the following statements regarding VMT analysis:

"A project may be screened from additional VMT analysis if it meets one or more of the following criteria. These criteria are based on the Governor's Office of Planning and Research (OPR) Technical Advisory on Evaluating Transportation Impacts in CEQA (December 2018)."

1. *Within Scope of Prior CEQA Analysis – The VMT generated by the project is within the scope of a prior CEQA analysis, and is therefore covered by a prior analysis, Prior analysis includes analysis performed for the General Plan.*

The project site would be situated within the West Roseville Specific Plan area on parcels WB-50E, WB-60E, and WB-60B, which have Park, Park (Sports Complex), and Light Industrial land use designations, respectively. VMT associated with these planned uses were included in the VMT impact analysis presented in the *Final Transportation Impact Study for the Roseville Housing Element Update*.

Total daily weekday VMT that would be generated by the project site was estimated for two scenarios. The first scenario assumes that the project site would develop with the planned uses identified in the West Roseville Specific Plan. The second scenario assumes that the project site would develop as proposed by the project. Because this analysis focuses on VMT that would be generated by the project site on a typical weekday, this analysis considers vehicle travel activity associated with evening practices that would occur on a typical weekday at the soccer complex.

Daily vehicle trips were estimated using trip generation rates presented in the *ITE Trip Generation Manual, 11th Edition* (for the planned Light Industrial uses), the City of Roseville Travel Demand model (for the planned Park uses), and based on the anticipated users of the soccer complex (which would be comprised of six fields based on the planned Park Sports Complex uses or ten fields based on the proposed project). Total daily weekday VMT was then estimated by multiplying the total daily vehicle trips by the average trip length for each component.

Average trip lengths for the planned Light Industrial uses were estimated using data presented in the *Roseville Industrial Park Project Administrative Draft EIR*. This document estimated average trip lengths for the planned industrial park uses that would be present at the Roseville Industrial Park project site, which is located approximately one-mile northwest of the Roseville Soccer complex project site. Therefore, these average trip lengths are comparable to those that would be expected of vehicle trips generated by the currently planned Light Industrial uses at the project site.

Average trip lengths for users of the Park and soccer complex uses were estimated based on the geographic distribution of residents aged 5 to 17 years old within the Roseville and north Sacramento County areas according to block group-level data presented in the American Community Survey 2020 5-Year Estimates. This method was selected because this demographic would represent the primary users and vehicle trip generators associated with the Park and soccer complex uses.

Information provided by the City indicates that while the soccer complex would primarily serve local teams, it would also be utilized by the Placer United Soccer Club, which draws from the greater Placer County and northern Sacramento County areas. According to the City, the Placer United Soccer Club would utilize up to three fields for weekday evening practices. Accordingly, for the currently planned six-field soccer complex, it is assumed that three fields would be utilized by the Placer United Soccer Club and three fields would be utilized by local teams. Moreover, for the proposed ten-field soccer complex, it is assumed that three fields would be utilized by the Placer United Soccer Club and seven fields would be utilized by local teams. Average trip lengths for trips associated with the Placer United Soccer Club practices were derived based on the geographic distribution of residents aged 5 to 17 years old in Roseville, Rocklin, Lincoln, Loomis, Granite Bay, Antelope, Foothill Farms, Citrus Heights, Orangevale, Fair Oaks, Carmichael, North Highlands, Rio Linda, and Elverta and their respective travel distances to/from the project site. Average trip lengths for trips associated with local teams were derived based on the geographic distribution of residents aged 5 to 17 years old in Roseville only and their respective travel distances to/from the project site.

As shown in **Table 5**, the proposed project, if implemented, would result in a net decrease of 11,275 total daily weekday VMT when compared to the VMT that would be generated by the site if it were developed with its planned land uses. Accordingly, this impact would be **less than significant**.

Mitigation Measures

None required.

Table 5: Roseville Soccer Complex Project – Weekday Vehicle Miles Traveled Comparison

Land Use	Quantity	Daily Vehicle Trips	Daily VMT[1]
Planned Land Uses[2]			
Park – Parcel WB-50E	3.1 acres	8	54
Park (Sports Complex) – Parcel WB-60A	6 fields[3]	2,870	22,344[4]
Industrial – Parcel WB-60B	30 acres (561.924 ksf)[5]	2,304[6]	24,192[7]
	Total	**5,182**	**46,590**
Proposed Roseville Soccer Complex Project			
Roseville Soccer Complex	10 fields	4,800	35,314[4]
	Total	**4,800**	**35,314**
Difference (Project Minus Planned)			
	Total	**-382**	**-11,275**

Note: [1] Refer to technical appendix for detailed calculations.
[2] Planned land uses represent those identified in the *West Roseville Specific Plan*.
[3] Planned 25.2-acre sports complex would accommodate an estimated 6 fields.
[4] Average trip lengths for trips derived based on the geographic distribution of residents aged 5 to 17 years old in Roseville, Rocklin, Lincoln, Loomis, Granite Bay, Antelope, Foothill Farms, Citrus Heights, Orangevale, Fair Oaks, Carmichael, North Highlands, Rio Linda, and Elverta based on US Census 2020 ACS data and their respective travel distances to/from the project site. In both scenarios, three fields would be utilized by the Placer United Soccer Club, which would draw from all of these communities. The remaining fields would be utilized by local teams and would draw from Roseville only.
[5] Floor area ratio (FAR) of 0.43 derived from the proposed industrial park project analyzed in the Roseville Industrial Park EIR.
[6] Trip generation based on trip rates from *Trip Generation Manual, 11th Edition* (ITE 2021).
[7] Average trip length of 10.5 miles derived from the proposed industrial park project analyzed in the Roseville Industrial Park EIR.
Source: Fehr & Peers, 2022.

Impact 2: Impacts to bicycle facilities.

As shown on Figure 3, a continuous set of on-street and/or off-street bicycle facilities are present to connect the project site with surrounding neighborhoods. The project would not modify these existing bicycle facilities or implement new bicycle facilities. A bicyclist could ride on Class II bike lanes continuously from the project site along Westbrook Boulevard to Blue Oaks Boulevard, Pleasant Grove Boulevard, and beyond. Similarly, bicyclists could ride on the existing Class I shared-use path along Curry Creek to access the project site from various nearby residential communities such as Westpark. While the project site does not have continuous access to the City's Class I off-street path system, City policies related to biking do not mandate this be present to achieve consistency with policies because continuous Class II bike lanes are provided to accommodate bicycle travel.

The project would not cause a physical disruption to existing bicycle facilities. Moreover, the project would not interfere with the implementation of planned bicycle facilities identified in the City's General Plan, West Roseville Specific Plan, or Bicycle Master Plan.

Altogether, this impact would be **less than significant**.

Mitigation Measures

None required.

Impact 3: Impacts to pedestrian facilities.

As shown on Figure 3, continuous pedestrian facilities are currently lacking on Westbrook Boulevard near the project site. In addition to constructing new pedestrian pathways internal to the project site, the project would include the construction of new sidewalks on the easterly side of Westbrook Boulevard along the project site frontage. However, sidewalk gaps would remain on the easterly side of Westbrook Boulevard between Blue Oaks Boulevard and Payson Avenue that would discourage people from walking to and from the project site. This would be inconsistent with General Plan policies CIRC6.1, CIRC6.3, and CIRC6.5, which call for establishing and maintaining a safe and continuous pedestrian network that encourages walking. It would not be possible to walk to and from the site via the easterly side of Westbrook Boulevard between Blue Oaks Boulevard and Payson Avenue via continuous sidewalks. Instead, pedestrians would either walk in a grassy field, in a landscaped area, or in the Class II bike lane.

The project would not cause a physical disruption to existing pedestrian facilities. Moreover, the project would not interfere with the implementation of planned pedestrian facilities identified in the City's General Plan, West Roseville Specific Plan, or Pedestrian Master Plan.

Altogether, this impact would be **significant**.

Mitigation Measure 3.1. Construct pedestrian facilities in the project vicinity.

Prior to its first day of operations, the City shall construct the following pedestrian facilities in the project vicinity:

- An approximate 450-foot length of sidewalk along the east side of Westbrook Boulevard from the project site north to connect with the existing sidewalk starting south of Blue Oaks Boulevard.
- An approximate 700-foot length of sidewalk along the east side of Westbrook Boulevard from the project site south to connect with the existing sidewalk starting north of Payson Avenue.

It is conceivable that one or both of the above missing sidewalks may already be constructed by the time that the project would open. If that is the case, then no additional pedestrian improvements would be necessary. However, if they are not yet in place, then the City shall construct the improvements, which could be either permanent or temporary.

Significance after Mitigation

Implementation of Mitigation Measure 2.1 would reduce this impact to a **less-than-significant** level because construction of sidewalks in the areas specified is considered feasible and would lead to consistency with adopted City policies, plans, or programs regarding pedestrian facilities.

Impact 4: Impacts to transit service and facilities.

As described previously, fixed-route bus service is not currently provided within the project site vicinity. Roseville Transit Dial-a-Ride service provides on-demand transit service to the study area, including the project site.

Farside bus turnouts are currently present on both northbound and southbound Westbrook Boulevard at Brookstone Drive South to accommodate future bus service. Moreover, the project would include the provision of bus parking within the on-site parking lots to accommodate buses and shuttle associated with tournaments and other events.



The project would not cause a physical disruption to existing transit service or facilities. The project would not interfere with the implementation of planned transit service or facilities identified in the City's General Plan, the West Roseville Specific Plan, or the City of Roseville Short Range Transit Plan.

Altogether, this impact would be **less than significant**.

Mitigation Measures

None required.

Impact 5: Hazards impacts.

The project would modify the Westbrook Boulevard/Brookstone Drive North and Westbrook Boulevard/Brookstone Drive South intersections. The proposed intersection modifications would adhere to applicable City of Roseville roadway design standards.

Several emergency services are located within the project area. Roseville Fire Station #9 is situated on Hayden Parkway approximately 1.5 miles from the project site and future Fire Station #11 would be located to the north of the project site (in the Amoruso Ranch Specific Plan area). Roseville Police headquarters are located at 1051 Junction Boulevard. Roseville's existing roadway and transportation network provides accessibility for fire, police, and other emergency service providers. Additionally, traffic signals in the City include emergency vehicle pre-emption equipment that would allow emergency responders to turn the signal green, allowing for efficient access to the scene. The project would not create roadway and transportation facilities that impede access for emergency response vehicles. Thus, the project would not result in inadequate emergency access.

Altogether, this impact would be **less than significant**.

Mitigation Measures

None required.

7. Traffic Operations Analysis

This chapter presents an analysis of the potential effects of the project with respect to traffic operations (i.e., vehicle delay and LOS) on roadway facilities within the vicinity of the project site.

Analysis Scenarios

The following scenarios are analyzed in this study:

- **Near-Term No Project Conditions** – Establishes the baseline setting from which project-specific traffic operations effects are measured. This scenario assumes the completion of numerous near-term land use and transportation system changes (refer to "Travel Demand Forecasting" section below for details).
- **Near-Term Plus Project Conditions** – Adds changes to travel demand, roadway geometrics, etc. that would result from buildout of the proposed project to Near-Term Conditions.
- **Cumulative No Project Conditions** - Represents cumulative travel demand based on reasonably foreseeable local and regional land use and transportation system changes. For the purposes of this study, the cumulative year is 2035. This scenario assumes the project site is developed consistent with the planned land uses identified in the West Roseville Specific Plan.
- **Cumulative Plus Project Conditions** – Adds changes to travel demand, roadway geometrics, etc. that would result from buildout of the proposed project to Cumulative No Conditions.

Traffic operations analyses were performed for each of these scenarios during weekday PM peak hour (4:30 PM to 5:30 PM) and Saturday AM peak hour (10:15 AM to 11:15 AM) conditions. These time periods were selected for analysis purposes because they would experience the greatest levels of project travel activity (i.e., due to weekday evening practices and weekend tournaments). Traffic operations analyses were not performed during weekday AM peak hour conditions because the project would be expected to generate a nominal number of vehicle trips during this time period.

Saturday AM peak hour conditions represent conditions during which a local/semi-regional tournament would be held at the project site. Analysis of a local/semi-regional tournament was selected instead of analysis of a regional/national tournament due to its higher trip generation potential and to avoid understating the potential effects of the project on traffic operations.



Analysis Methodology

This section describes the methods utilized to analyze roadway traffic operations within the study area.

Analysis Locations

The following six study intersections were selected for analysis based on the project's expected travel characteristics (i.e., the project location and amount of project trips) as well as their susceptibility to being affected by the project:

1. Blue Oaks Boulevard/Westbrook Boulevard
2. Blue Oaks Boulevard/Westpark Drive
3. Blue Oaks Boulevard/Hayden Parkway
4. Westbrook Boulevard/Brookstone Drive North
5. Westbrook Boulevard/Brookstone Drive South
6. Westbrook Boulevard/Pleasant Grove Boulevard

Study intersections 4 and 5 would serve as the primary vehicular access points for the project site.

Data Collection

Existing intersection turning movement data was derived at the study intersections as follows:

- Weekday evening (4 PM to 6 PM) peak period
    - Traffic counts were conducted at study intersections 1 through 3 on Tuesday, August 17, 2021 and at study intersections 4 and 5 on Thursday, January 27, 2022.
    - Intersection turning movement data at study intersection 6 on Tuesday, August 17, 2021 was obtained from the City of Roseville Turning Movement Volume/Occupancy Report online database.
- Saturday morning (10 AM to 12 PM) peak period
    - Traffic counts were conducted at study intersections 1 through 5 on Saturday, March 19, 2022.
    - Intersection turning movement data at study intersection 6 on Saturday, March 19, 2022 was obtained from the City of Roseville Turning Movement Volume/Occupancy Report online database.

Additionally, Fehr & Peers conducted a site visit in April 2022 to document of existing intersection geometrics, lane configurations, traffic controls, etc. at the six study intersections. At present, study intersections 1 through 5 are all-way stop-controlled and study intersection 6 is signalized.

Travel Demand Forecasting

Because the analysis scenarios consider future land use and transportation system changes, it was necessary to conduct travel demand forecasting to determine near-term and cumulative peak hour traffic volumes at the six study intersections. This process is described below.

Near-Term Conditions

Near-term conditions reflect the land use growth associated with near-term development activity anticipated for the specific plans presented in **Table 6**. These land use quantities were developed in consultation with City staff as part of the *Blue Oaks Boulevard Phasing Analysis* (Fehr & Peers November 2021). As shown, 6,460 new dwelling units and about 200,000 square feet of retail would be added under near-term conditions.

Table 6: Near-Term Land Use Absorption

Land Use Category	Creekview Specific Plan	West Roseville Specific Plan	Regional University Specific Plan	Sierra Vista West Specific Plan	Sierra Vista East Specific Plan	Amoruso Ranch Specific Plan
SF Res (du's)	1,000	1,732	0	1,150	478	481
MF Res (du's)	210	1,057	0	150	200	0
Retail (ksf)	0	82	0	125	0	0
Office (ksf)	0	0	0	0	0	0
Industrial (ksf)	0	0	0	0	0	0
School (students)	0	450	0	0	0	0

Source: *Blue Oaks Boulevard Phasing Analysis* Technical Memorandum (Fehr & Peers, 2021).

Additionally, near-term conditions include the completion of the following major roadway system modifications in the study area:

- Extension of Westbrook Boulevard north to Sunset Boulevard West and south to Baseline Road (two lanes north of Blue Oaks Boulevard and four lanes south of Blue Oaks Boulevard).
- Extension of Santucci Boulevard between Pleasant Grove Boulevard and Baseline Road (four lanes).
- Extension of Market Street between Pleasant Grove Boulevard and Baseline Road (two lanes).
- Extension of Upland Drive between Pleasant Grove Boulevard and Baseline Road (two lane).

The existing lane configurations on Westbrook Boulevard and Blue Oaks Boulevard and existing traffic controls and intersection geometries at the six study intersections were assumed to remain as-is under near-term conditions.

The near-term land uses and transportation system changes were added to the City of Roseville modified 2021 base year model. The model was then run and weekday PM peak hour traffic forecasts were developed for the six study intersections.

Near-term Saturday AM peak hour traffic forecasts were estimated by adjusting the near-term weekday PM peak hour traffic forecasts based on the existing ratio of Saturday AM peak hour to Weekday PM peak hour traffic volumes at the six study intersections as well as at the nearby Pleasant Grove Boulevard/Market Street intersection.

Near-Term Plus Project traffic forecasts were estimated by assigning the project trips to the study intersections in accordance with the project travel characteristics presented in Chapter 4 and adding project trips to the Near-Term No Project traffic forecasts. Additionally, the intersection geometrics and lane configurations at both Westbrook Boulevard/Brookstone Drive intersections were modified in accordance with the modifications proposed on the project site plan.

Cumulative Conditions

Cumulative conditions reflect the reasonably foreseeable local and regional land use and transportation system changes that would be present in 2035. These changes are consistent with the City's "Updated 2035 Model", as documented in the technical memorandum entitled *Updated Roseville 2035 Model VMT and LOS Results* (Fehr & Peers April 2022). These cumulative land use and transportation system changes reflect the "Project Scenario" from the City's Housing Element Update, plus various recently proposed projects both within and outside of the City of Roseville such as the Roseville Industrial Park and the Parcel 55a/60 Rezone.

The cumulative conditions transportation system includes the following key modifications to the study intersections and roadway facilities:

- Widening of Westbrook Boulevard south of Blue Oaks Boulevard to six lanes.
- Widening of Blue Oaks Boulevard between the westerly city limits and Fiddyment Road to six lanes.
- Signalization of the Blue Oaks Boulevard/Westbrook Boulevard, Blue Oaks Boulevard/Westpark Drive, Blue Oaks Boulevard/Hayden Parkway, Westbrook Boulevard/Brookstone Drive North, and Westbrook Boulevard/Brookstone Drive South intersections.

Outputs from the "Updated 2035 Model" were used to derive cumulative weekday PM peak hour traffic forecasts for the six study intersections. Cumulative Saturday AM peak hour traffic forecasts were estimated using similar methods to those described above for near-term conditions.

Cumulative Plus Project traffic forecasts were estimated by assigning the project trips to the study intersections in accordance with the project travel characteristics presented in Chapter 4 and adding project trips to the Cumulative No Project traffic forecasts. Additionally, the intersection geometrics and lane configurations at both Westbrook Boulevard/Brookstone Drive intersections were modified in accordance with the modifications proposed on the project site plan. Because these intersections would be signalized under cumulative conditions, it was assumed that a southbound left-turn pocket would be provided at both intersections to complement the existing northbound left-turn pocket and to enable protected left-turn signal phasing for the northbound and southbound approaches.

Roadway System Operations

This study analyzes roadway operating conditions using intersection level of service (LOS) as a primary measure of operational performance. Motorized vehicle LOS is a qualitative measure of traffic flow from the perspective of motorists and is an indication of the comfort and convenience associated with driving. Typical factors that affect motorized vehicle LOS include speed, travel time, traffic interruptions, and freedom to maneuver. Empirical LOS criteria and methods of calculation have been documented in the *Highway Capacity Manual, 6th Edition* (HCM) published by the Transportation Research Board of the National Academies of Science (Transportation Research Board, 2016). The HCM defines six levels of service ranging from LOS A (representing free-flow vehicular traffic conditions with little to no congestion) to LOS F (oversaturated conditions where traffic demand exceeds capacity resulting in long queues and delays). The LOS definitions and calculations contained in the HCM are the prevailing measurement standard used throughout the United States and are used in this study. Motorized vehicle LOS definitions for signalized and unsignalized intersection are discussed below.

The LOS at signalized intersections is based on the average control delay (i.e., delay resulting from initial deceleration, queue move-up time, time stopped on an intersection approach, and final acceleration) experienced per vehicle traveling through the intersection. **Table 7** summarizes the relationship between delay and LOS for signalized intersections.

Similar to signalized intersections, the HCM 6th Edition methodology for stop-controlled intersections reports the LOS based on the control delay experienced by motorists traveling through the intersection. As shown in **Table 8**, the delay ranges for stop-controlled intersections are lower than for signalized intersections. The HCM anticipates that motorists expect signalized intersections to carry higher traffic

volume that results in greater delay than a stop-controlled intersection. Stop controls are associated with more uncertainty as delays are less predictable, which can reduce users' delay tolerance.

Traffic operations for study intersections 1 through 3 and 6 were analyzed using Synchro 11 traffic operations analysis software. Traffic operations for study intersections 4 and 5 were analyzed using the SimTraffic micro-simulation module of the Synchro 11 software, which accounts for interactions between intersections, queue spillback, vehicle platooning, etc. SimTraffic also produces more accurate estimates of vehicular queuing (when compared to more deterministic methods).

Table 7: Signalized Intersection LOS Criteria

Level of Service	Description	Average Control Delay[1]
A	Volume-to-capacity ratio is low and either progression is exceptionally favorable or cycle length is very short.	≤ 10
B	Volume-to-capacity ratio is low and either progression is highly favorable or the cycle length is short. More vehicles stop than with LOS A.	>10 to 20
C	Progression is favorable or the cycle length is moderate. Individual cycle failures (i.e., one or more queued vehicles are not able to depart as a result of insufficient capacity during the cycle) may begin to appear at this level. The number of vehicles stopping is significant, although many vehicles still pass through the intersection without stopping.	>20 to 35
D	Volume-to-capacity ratio is high and either progression is ineffective or the cycle length is long. Many vehicles stop and individual cycle failures are noticeable.	>35 to 55
E	Volume-to-capacity ratio is high, progression is unfavorable, and the cycle length is long. Individual cycle failures are frequent.	>55 to 80
F	Volume-to-capacity ratio is very high, progression is very poor, and the cycle length is long. Most cycles fail to clear the queue.	>80

Note: [1] Average control delay presented in seconds per vehicle. Delay values are rounded to the nearest second and evaluated for LOS based on the above thresholds (i.e., 10 seconds per vehicle = LOS A).
Source: *Highway Capacity Manual, 6th Edition,* Transportation Research Board, 2016.

Table 8: Stop-Controlled Intersection LOS Criteria

Level of Service	Average Control Delay[1]
A	≤ 10
B	>10 to 15
C	>15 to 25
D	>25 to 35
E	>35 to 50
F	>50

Note: [1] Average control delay presented in seconds per vehicle. Delay values are rounded to the nearest second and evaluated for LOS based on the above thresholds (i.e., 10 seconds per vehicle = LOS A).
Source: *Highway Capacity Manual, 6th Edition,* Transportation Research Board, 2016.

Roadway Operations Performance Criteria

City of Roseville General Plan Circulation Element Policy CIRC2.1 requires that the City maintain a LOS C standard at a minimum of 70 percent of all signalized intersections and roadway segments in the City during the AM and PM peak. Exceptions to the LOS C standard may be considered where improvements required to achieve the standard would adversely affect pedestrian, bicycle, or transit access, and where feasible LOS improvements and travel-demand-reducing strategies have been exhausted.

Near-Term No Project Conditions

Table 9 presents the weekday PM peak hour and Saturday AM peak hour vehicle delay and LOS for each study intersection under Near-Term No Project Conditions. As shown, all study intersections would operate at acceptable LOS C or better with the exception of the Blue Oaks Boulevard/Hayden Parkway intersection, which would operate at LOS F during both the weekday PM peak hour and Saturday AM peak hour.

Table 9: Peak Hour Intersection Operations – Near-Term No Project Conditions

Intersection	Traffic Control	Peak Hour	Near-Term No Project Conditions	
			Delay	LOS
1. Blue Oaks Blvd./Westbrook Blvd.	AWSC	Weekday PM	22	C
		Saturday AM	12	B
2. Blue Oaks Blvd./Westpark Dr.	AWSC	Weekday PM	20	C
		Saturday AM	13	B
3. Blue Oaks Blvd./Hayden Pkwy.	AWSC	Weekday PM	193	F
		Saturday AM	67	F
4. Westbrook Blvd./Brookstone Dr. North	AWSC	Weekday PM	8	A
		Saturday AM	8	A
5. Westbrook Blvd./Brookstone Dr. South	AWSC	Weekday PM	7	A
		Saturday AM	7	A
6. Westbrook Blvd./Pleasant Grove Blvd.	AWSC	Weekday PM	21	C
		Saturday AM	20	C

Note: For signalized and all-way stop-controlled (AWSC) intersections, average intersection delay is reported in seconds per vehicle for all approaches. For side-street stop-controlled intersections (SSSC), average intersection delay is reported in seconds per vehicle for all approaches with the delay and LOS for the worst-case movement reported in parentheses.
Source: Fehr & Peers, 2022.

While this study does not include a near-term analysis of weekday AM peak hour conditions, such an analysis was prepared as part of *Blue Oaks Boulevard Widening Analysis*. This analysis revealed that the Blue Oaks Boulevard/Westbrook Boulevard, Blue Oaks Boulevard/Westpark Drive, and Blue Oaks Boulevard/Hayden Parkway intersections would operate at unacceptable LOS E, LOS D, and LOS F, respectively, under near-term weekday AM peak hour conditions. The *Blue Oaks Boulevard Widening Analysis* recommended the following improvements to improve operations to acceptable levels:

- Signalize the Blue Oaks Boulevard/Westbrook Boulevard intersection and maintain the existing lane configurations.
- Convert the Blue Oaks Boulevard/Westpark Drive intersection from all-way to side-street stop control and maintain the existing lane configurations.
- Signalize the Blue Oaks Boulevard/Hayden Parkway intersection and widen the eastbound and westbound approaches to each consist of a dedicated left-turn lane and a shared through-right lane.

These recommendations would similarly apply under Near-Term No Project conditions for this study.

Near-Term Plus Project Conditions

Table 10 presents the weekday PM peak hour and Saturday AM peak hour vehicle delay and LOS for each study intersection under Near-Term Plus Project Conditions. As shown, the project would increase delays at all study intersections during both the weekday PM peak hour and Saturday AM peak hour. Moreover, the project would degrade operations at the Blue Oaks Boulevard/Westbrook Boulevard and Blue Oaks Boulevard/Hayden Parkway intersections from acceptable LOS C to unacceptable LOS D during the weekday PM peak hour and would exacerbate unacceptable LOS F conditions at the Blue Oaks Boulevard/Hayden Parkway intersection during both the weekday PM peak hour and Saturday AM peak hour. The Westbrook Boulevard/Brookstone Drive North and Westbrook Boulevard/Brookstone Drive South intersections serving the project site would both operate at acceptable LOS B or better during both the weekday PM peak hour and Saturday AM peak hour.

The intersection traffic control and lane configuration improvements described previously under Near-Term No Project conditions would improve operations at the Blue Oaks Boulevard/Westbrook Boulevard, Blue Oaks Boulevard/Hayden Parkway, and Blue Oaks Boulevard/Hayden Parkway intersections to acceptable LOS C or better (see **Table 11**).

While the Westbrook Boulevard/Brookstone Drive North and Westbrook Boulevard/Brookstone Drive South intersections would comply with the City's LOS policy, both intersections would meet the peak hour signal warrant (CAMUTCD Warrant 3B) during the Saturday AM peak hour under Near Term Plus Project conditions. Accordingly, it is recommended that the Westbrook Boulevard/Brookstone Drive North and Westbrook Boulevard/Brookstone Drive South intersections be signalized prior to the commencement of operations at the project site. Signalization of these intersections is planned by the City and included in the City's CIP. Additional benefits associated with signalization of these intersections include improved pedestrian crossings across Westbrook Boulevard to/from the project site and improved access for motorists turning onto Westbrook Boulevard from Brookstone Drive.

Given the existing eastbound approach lane configurations and the project's proposed westbound approach lane configurations at both the Westbrook Boulevard/Brookstone Drive North and Westbrook Boulevard/Brookstone Drive South intersections, with the signalization of these intersections, it is anticipated that the eastbound and westbound approaches would operate with split phasing at both intersections. In light of the eastbound and westbound split phase operations, the following modifications are recommended to maximize operational efficiency at these two intersections:

- Eliminate the marked crosswalk on the south leg of the Westbrook Boulevard/Brookstone Drive North intersection. Note that a sidewalk is not present along the southerly side of Brookstone Drive North west of Westbrook Boulevard. Thus, the south leg crossing would provide limited benefit to pedestrian connectivity when the intersection is signalized.
- Eliminate the marked crosswalk on the north leg of the Westbrook Boulevard/Brookstone Drive South intersection. Note that a sidewalk is not present along the northerly side of Brookstone Drive South west of Westbrook Boulevard. Thus, the north leg crossing would provide limited benefit to pedestrian connectivity when the intersection is signalized.

Table 10: Peak Hour Intersection Operations – Near-Term Plus Project Conditions

Intersection	Traffic Control	Peak Hour	Near-Term No Project Conditions		Near-Term Plus Project Conditions	
			Delay	LOS	Delay	LOS
1. Blue Oaks Blvd./Westbrook Blvd.	AWSC	Weekday PM	22	C	39	E
		Saturday AM	12	B	20	C
2. Blue Oaks Blvd./Westpark Dr.	AWSC	Weekday PM	20	C	56	F
		Saturday AM	13	B	23	C
3. Blue Oaks Blvd./Hayden Pkwy.	AWSC	Weekday PM	193	F	321	F
		Saturday AM	67	F	177	F
4. Westbrook Blvd./Brookstone Dr. North	AWSC	Weekday PM	8	A	13	B
		Saturday AM	8	A	11	B
5. Westbrook Blvd./Brookstone Dr. South	AWSC	Weekday PM	7	A	10	B
		Saturday AM	7	A	10	A
6. Westbrook Blvd./Pleasant Grove Blvd.	AWSC	Weekday PM	21	C	33	C
		Saturday AM	20	C	25	C

Note: For signalized and all-way stop-controlled (AWSC) intersections, average intersection delay is reported in seconds per vehicle for all approaches. For side-street stop-controlled intersections (SSSC), average intersection delay is reported in seconds per vehicle for all approaches with the delay and LOS for the worst-case movement reported in parentheses.
Source: Fehr & Peers, 2022.

Table 11: Peak Hour Intersection Operations – Near-Term Plus Project Conditions With Improvements

Intersection	Traffic Control	Peak Hour	Near-Term Plus Project Conditions		Near-Term Plus Project Conditions With Improvements	
			Delay	LOS	Delay	LOS
1. Blue Oaks Blvd./Westbrook Blvd.	AWSC/ Signal	Weekday PM	28	D	29	C
		Saturday AM	20	C	19	C
2. Blue Oaks Blvd./Westpark Dr.	AWSC/ SSSC	Weekday PM	29	D	2 (30)	A (D)
		Saturday AM	23	C	1 (22)	A (C)
3. Blue Oaks Blvd./Hayden Pkwy.	AWSC/ Signal	Weekday PM	255	F	35	C
		Saturday AM	177	F	24	C

Note: For signalized and all-way stop-controlled (AWSC) intersections, average intersection delay is reported in seconds per vehicle for all approaches. For side-street stop-controlled intersections (SSSC), average intersection delay is reported in seconds per vehicle for all approaches with the delay and LOS for the worst-case movement reported in parentheses.
Source: Fehr & Peers, 2022.

Table 12 displays the estimated 95th percentile queues for critical movements at the Westbrook Boulevard/Brookstone Drive North and Westbrook Boulevard/Brookstone Drive South intersections serving the project site. These include the northbound right-turn and southbound left-turn ingress movements as well as the westbound shared through-left and right-turn egress movements. The 95th percentile queues would be accommodated within the available storage. However, because the southbound left-turn movements would occur from the southbound shared through-left lane, queues associated with these movements would disrupt southbound through traffic on Westbrook Boulevard.

Table 12: Peak Hour 95th Percentile Queue Estimates – Near-Term Plus Project Conditions

Intersection	Movement	Storage (ft.)	Peak Hour	95th Percentile Queue (ft.)
4. Westbrook Blvd./Brookstone Dr. North	NB RT	220	Weekday PM	75
			Saturday AM	100
	SB TH/LT	>1,000	Weekday PM	125
			Saturday AM	100
	WB TH/LT	>350	Weekday PM	125
			Saturday AM	125
	WB RT	240	Weekday PM	50
			Saturday AM	50
5. Westbrook Blvd./Brookstone Dr. South	NB RT	220	Weekday PM	75
			Saturday AM	75
	SB TH/LT	820	Weekday PM	100
			Saturday AM	75
	WB TH/LT	>500	Weekday PM	75
			Saturday AM	75
	WB RT	115	Weekday PM	50
			Saturday AM	50

Note: Results shown estimated from SimTraffic micro-simulation analysis of 10 simulation runs. Queue lengths are rounded up to nearest 25 feet.
Source: Fehr & Peers, 2022.

The following improvements are recommended to reduce the adverse effects associated with the southbound left-turn queues at the Westbrook Boulevard/Brookstone Drive North and Westbrook Boulevard/Brookstone Drive South intersections:

- At both the Westbrook Boulevard/Brookstone Drive North and Westbrook Boulevard/Brookstone Drive South intersections, construct a southbound left-turn pocket with a storage length of 250 feet. These modifications would be consistent with Detail ST-10 (Four-Lane Arterial Single Left-Turns) of the *City of Roseville Design and Construction Standards*. Moreover, these modifications would be consistent with Section 5-6 of the *City of Roseville Design and Construction Standards*, which states that "on arterials and expressways and where left turns in will be permitted, a left turn deceleration lane shall be provided." Finally, these modifications would be consistent with those anticipated to be required under Cumulative Plus Project conditions. Because these intersections would be signalized under cumulative conditions, it is assumed that a southbound left-turn pocket would be needed at both intersections to complement the existing northbound left-turn pocket and to enable protected left-turn signal phasing for the northbound and southbound approaches.

Cumulative No Project Conditions

Table 13 presents the weekday PM peak hour and Saturday AM peak hour vehicle delay and LOS for each study intersection under Cumulative No Project Conditions. As shown, all study intersections would operate at acceptable LOS C or better with the exception of the Blue Oaks Boulevard/Westbrook Boulevard intersection, which would operate at LOS D during the weekday PM peak hour.

These results are consistent with those presented for the cumulative conditions analysis in the *Updated Roseville 2035 Model VMT and LOS Results* technical memorandum. This analysis determined that the total number of intersections throughout the City operating at LOS C or better during the PM peak hour would be consistent with the City's associated LOS policy. The same conclusion applies to Cumulative No Project conditions for this study.

Table 13: Peak Hour Intersection Operations – Cumulative No Project Conditions

Intersection	Traffic Control	Peak Hour	Cumulative No Project Conditions	
			Delay	LOS
1. Blue Oaks Blvd./Westbrook Blvd.	Signal	Weekday PM	50	D
		Saturday AM	23	C
2. Blue Oaks Blvd./Westpark Dr.	Signal	Weekday PM	5	A
		Saturday AM	5	A
3. Blue Oaks Blvd./Hayden Pkwy.	Signal	Weekday PM	25	C
		Saturday AM	17	B
4. Westbrook Blvd./Brookstone Dr. North	Signal	Weekday PM	9	A
		Saturday AM	4	A
5. Westbrook Blvd./Brookstone Dr. South	Signal	Weekday PM	6	A
		Saturday AM	6	A
6. Westbrook Blvd./Pleasant Grove Blvd.	Signal	Weekday PM	32	C
		Saturday AM	21	C

Note: For signalized and all-way stop-controlled (AWSC) intersections, average intersection delay is reported in seconds per vehicle for all approaches. For side-street stop-controlled intersections (SSSC), average intersection delay is reported in seconds per vehicle for all approaches with the delay and LOS for the worst-case movement reported in parentheses.
Source: Fehr & Peers, 2022.

Cumulative Plus Project Conditions

Table 14 presents the weekday PM peak hour and Saturday AM peak hour vehicle delay and LOS for each study intersection under Cumulative Plus Project Conditions. As shown, the project would increase delays at all study intersections during both the weekday PM peak hour and Saturday AM peak hour. Moreover, the project would degrade operations at the Westbrook Boulevard/Pleasant Grove Boulevard intersection from acceptable LOS C to unacceptable LOS D during the weekday PM peak hour and would exacerbate unacceptable LOS D to LOS E at the Blue Oaks Boulevard/Westbrook Boulevard intersection during the weekday PM peak hour. The Westbrook Boulevard/Brookstone Drive North and Westbrook Boulevard/Brookstone Drive South intersections serving the project site would both operate at acceptable LOS B or better during both the weekday PM peak hour and Saturday AM peak hour.

Table 14: Peak Hour Intersection Operations – Cumulative Plus Project Conditions

Intersection	Traffic Control	Peak Hour	Cumulative No Project Conditions		Cumulative Plus Project Conditions	
			Delay	LOS	Delay	LOS
1. Blue Oaks Blvd./Westbrook Blvd.	Signal	Weekday PM	50	D	73	E
		Saturday AM	23	C	27	C
2. Blue Oaks Blvd./Westpark Dr.	Signal	Weekday PM	5	A	5	A
		Saturday AM	5	A	5	A
3. Blue Oaks Blvd./Hayden Pkwy.	Signal	Weekday PM	25	C	26	C
		Saturday AM	17	B	17	B
4. Westbrook Blvd./Brookstone Dr. North	Signal	Weekday PM	9	A	29	C
		Saturday AM	4	A	18	B
5. Westbrook Blvd./Brookstone Dr. South	Signal	Weekday PM	6	A	18	B
		Saturday AM	6	A	16	B
6. Westbrook Blvd./Pleasant Grove Blvd.	Signal	Weekday PM	32	C	70	E
		Saturday AM	21	C	33	C

Note: For signalized and all-way stop-controlled (AWSC) intersections, average intersection delay is reported in seconds per vehicle for all approaches. For side-street stop-controlled intersections (SSSC), average intersection delay is reported in seconds per vehicle for all approaches with the delay and LOS for the worst-case movement reported in parentheses.
Source: Fehr & Peers, 2022.

While the project would degrade operations at the Blue Oaks Boulevard/Westbrook Boulevard intersection, this degradation would not constitute an inconsistency with the City's LOS policy, as this intersection already would not operate at LOS C or better under Cumulative No Project conditions. However, the project-related degradation of operations at the Westbrook Boulevard/Pleasant Grove Boulevard intersection would increase the number of intersections throughout the City that would not operate at LOS C or better conditions relative to Cumulative No Project conditions. The following improvements would improve operations at the Westbrook Boulevard/Pleasant Grove Boulevard intersection to acceptable LOS C or better conditions:

- Modify the Westbrook Boulevard/Pleasant Grove Boulevard intersection signal equipment and signal timing plan to operate with an overlap phase for the westbound right-turn phase (i.e., would operate concurrently with southbound left-turn).

Note that this would require prohibiting southbound u-turns. While there are a pair of right-turn only intersections to the north (i.e., at Symphony Avenue and Youngtown Avenue), they are not likely generating much u-turn demand at this location due to the neighborhoods connecting to the signalized Westbrook Boulevard/Octave Avenue/Payson Avenue intersection 700 feet to the north).

As described previously, it is anticipated that under Cumulative Plus Project conditions, both the Westbrook Boulevard/Brookstone Drive North and Westbrook Boulevard/Brookstone Drive South intersections would need to be modified to include a southbound left-turn pocket. These modifications would be needed at both intersections (which are planned for signalization under cumulative conditions) to complement the existing northbound left-turn pocket and to enable protected left-turn signal phasing for the northbound and southbound approaches.

Given the existing eastbound approach lane configurations and the project's proposed westbound approach lane configurations at both the Westbrook Boulevard/Brookstone Drive North and Westbrook Boulevard/Brookstone Drive South intersections, it is anticipated that the eastbound and westbound approaches would operate with split phasing at both intersections. In light of the eastbound and westbound split phase operations, the following modifications are recommended to maximize operational efficiency at these two intersections:

- Eliminate the marked crosswalk on the south leg of the Westbrook Boulevard/Brookstone Drive North intersection. Note that a sidewalk is not present along the southerly side of Brookstone Drive North west of Westbrook Boulevard. Thus, the south leg crossing would provide limited benefit to pedestrian connectivity when the intersection is signalized under cumulative conditions.
- Eliminate the marked crosswalk on the north leg of the Westbrook Boulevard/Brookstone Drive South intersection. Note that a sidewalk is not present along the northerly side of Brookstone Drive South west of Westbrook Boulevard. Thus, the north leg crossing would provide limited benefit to pedestrian connectivity when the intersection is signalized under cumulative conditions.

Table 15 displays the estimated 95th percentile queues for critical movements at the Westbrook Boulevard/Brookstone Drive North and Westbrook Boulevard/Brookstone Drive South intersections serving the project site. These include the northbound right-turn and southbound left-turn ingress movements as well as the westbound shared through-left and right-turn egress movements. The 95th percentile queues would be accommodated within the available storage, with the exception of the 95th percentile queue for the southbound left-turn movement at the Westbrook Boulevard/Brookstone Drive North intersection, which would reach a distance of 275 feet during the weekday PM peak hour. As described previously, it is recommended that the marked crosswalk on the north leg of the Westbrook Boulevard/Brookstone Drive North intersection be eliminated to maximize the operational efficiency of the intersection. Implementation of this recommendation would reduce the length of the southbound left-turn movement 95th percentile queue to a length less than the available storage of 240 feet.



Table 15: Peak Hour 95th Percentile Queue Estimates – Cumulative Plus Project Conditions

Intersection	Movement	Storage (ft.)	Peak Hour	95th Percentile Queue (ft.)
4. Westbrook Blvd./Brookstone Dr. North	NB RT	220	Weekday PM	125
			Saturday AM	125
	SB LT	240	Weekday PM	275
			Saturday AM	150
	WB TH/LT	>350	Weekday PM	175
			Saturday AM	200
	WB RT	240	Weekday PM	75
			Saturday AM	50
5. Westbrook Blvd./Brookstone Dr. South	NB RT	220	Weekday PM	75
			Saturday AM	75
	SB LT	240	Weekday PM	100
			Saturday AM	100
	WB TH/LT	>500	Weekday PM	100
			Saturday AM	150
	WB RT	115	Weekday PM	50
			Saturday AM	50

Note: Results shown estimated from SimTraffic micro-simulation analysis of 10 simulation runs. Queue lengths are rounded up to nearest 25 feet.
Source: Fehr & Peers, 2022.

8. Project Site Parking, Access, and Circulation

This section site provides a review of project site parking, access, and circulation.

Parking Demand and Supply

The project's expected Saturday peak parking demand is expected to be similar to what was observed at the Rick Hitch Tournament and Placer United Girls Cup. The data collection at the Rick Hitch Tournament included on-site parking occupancy measurements. Through review of 15-minute arrival and departure traffic flows at the Placer United Girls Cup, peak parking demand was calculated. **Table 16** indicates that the peak parking demand at each tournament was about 80 spaces per field.

The two tournaments had nearly identical parking demand rates despite having different tournament profiles. Although the Placer Girls Cup consisted of a greater proportion of teams traveling from more remote destinations (i.e., likely traveling in fewer vehicles), this may have been offset by greater percentages of attendees at the Rick Hitch Tournament departing and then arriving again between games.

This data suggests that the proposed project would have a peak parking demand of about 800 parking spaces. Since over 950 on-site parking spaces would be provided, the supply of parking appears adequate to meet the projected demand during weekend soccer tournaments.

Table 16: Saturday Parking Rates at Soccer Tournaments

Soccer Tournament	Occupied Fields	Peak Parking Demand	
		Occupied Parking Spaces	Parking Demand Rate
Rick Hitch Tournament at Maidu Regional Park[1]	5	397	80 spaces/field
Placer United Girls Cup at Cherry Island Soccer Complex[2]	10	822	81 spaces/field

Note: [1] Observations on Saturday, August 15, 2015. Peak parking demand occurred at 2 PM.
[2] Observations on Saturday, October 24, 2015. Peak parking demand occurred at 10:15 AM.
Source: Fehr & Peers, 2015.

Driveway Throat Depths

As described previously, the 95th percentile queues for critical movements at the two Westbrook Boulevard/Brookstone Drive intersections were analyzed to determine the extent to which available storage would adequately accommodate peak hour queues. These movements included the westbound movements, which represent vehicles utilizing the outbound driveways from the project's two on-site parking lots. As shown in Tables 12 and 15, the available storage proposed for these westbound movements would adequately accommodate the weekday PM and Saturday AM peak hour 95th percentile queues under both Near-Term Plus Project and Cumulative Plus Project conditions.

As described previously, the City anticipates that parking fees would not be collected on-site during tournaments. This would eliminate the need for vehicles to stop upon entering the project parking lots to complete a parking transaction via cash, credit card, etc. This would also eliminate queueing associated with inbound vehicles that could otherwise spill back towards or onto Westbrook Boulevard.

Altogether, the proposed driveway (i.e., westbound approach) throat depths at the two Westbrook Boulevard/Brookstone Drive intersections would adequately accommodate queuing associated with inbound and outbound vehicles.

Phillip Road Access

The project proposes to provide outbound-only access from the northerly parking lot via Phillip Road. However, it is conceivable that some visitors traveling to the soccer complex attempt to enter the project site via Phillip Road. This could be due to a variety of reasons, including a lack of awareness of the proposed access restriction or a visitor following route recommendations provided by a mobile device navigation app (see screenshot below of Google Maps route recommendation to utilize Phillip Road for a trip beginning in Lincoln and ending at the project site).

Vehicles attempting to enter the project site via Phillip Road would not be aware of the access restriction until they approach the Phillip Road project driveway and see that they are unable to enter the site at this location. Vehicles would then be required to complete a multi-point turn to travel eastbound on Phillip Road to locate an alternate access option. Given that the width of Phillip Road measures approximately 20 feet at this location, such a maneuver would cause temporary blockages of Phillip Road.

Additionally, Phillip Road would be an attractive parking option for visitors approaching the project site from the east who would prefer to avoid traveling to and utilizing one of the two proposed on-site parking lots (i.e., due to the reduced travel time associated with traveling to Phillip Road versus traveling to the on-site parking lots). The existing Roseville Energy Park gravel parking lot located on the north side of Phillip Road would also be an attractive parking option for project visitors for similar reasons. Use of

these facilities for project parking activity is not recommended due to the narrow roadway width, the lack of on-street parking facilities, and the lack of sidewalks on Phillip Road. The lack of sidewalks is particularly important to note as this would result in the mixing of pedestrians and vehicles in the Phillip Road travel lanes, which would increase the potential for conflicts involving pedestrians.



The following strategies and modifications are recommended:

- In informational materials related to the soccer complex, tournaments, etc., provide clear information regarding project site access and parking options. In particular, this information should state that ingress via Phillip Road and on-street parking on Phillip Road are not permitted.
- Install the following signage:
    - "No Parking" signage on both sides of Phillip Road between the project site and Westpark Drive,
    - "No Soccer Complex Parking" at the driveway serving the Roseville Energy Park gravel parking lot located on the north side of Phillip Road.
    - "Do Not Enter" signage on westbound Phillip Road approaching the project driveway.
    - "Soccer Complex Entrance - Proceed Straight" on westbound Blue Oaks Boulevard approaching Westpark Drive and on northbound Westpark Drive approaching Phillip Road.

    - "Soccer Complex - No Access Via Phillip Road" on northbound and southbound Westpark Drive approaching Phillip Road.
- Modify the intersection of Phillip Road and the Pleasant Grove Wastewater Treatment Plant north-south access road to include a paved turnout on the northerly side of the intersection. This intersection should be designed such that sufficient radius is available for westbound vehicles to complete a u-turn to travel eastbound on Phillip Road (i.e., to accommodate vehicle turnarounds for those attempting to enter the project site via Phillip Road).

Westbrook Boulevard/Durango Way Intersection

The Westbrook Boulevard/Durango Way intersection is a right-in/right-out only intersection located between the two Westbrook Boulevard/Brookstone Drive intersections. The west leg of the intersection provides access into the adjacent Brookstone neighborhood to the west. Westbrook Boulevard has a raised median through the intersection and pedestrian crosswalks are not currently provided across Westbrook Boulevard at the intersection. The project would not modify this intersection or provide project site access via this intersection.

As described in the "Parking Demand and Supply" section, the proposed on-site parking supply would be expected to adequately accommodate project-generated parking demand associated with soccer tournaments at the complex. However, it is conceivable that project-related parking activity could occur in the Brookstone neighborhood in unanticipated instances where project parking demand exceeds the available on-site parking supply. In these instances, people desiring to travel between their parked vehicles on the west side of Westbrook Boulevard and the project site may choose to cross Westbrook Boulevard at Durango Way. This behavior would be undesirable given the lack of established pedestrian crossings and the high-speed, multi-lane characteristics of Westbrook Boulevard.

It is recommended that the City monitor the Westbrook Boulevard/Durango Way intersection during tournaments at the soccer complex and evaluate the extent to which pedestrian crossing activity occurs. If sufficient pedestrian activity occurs, it is recommended that the City implement measures to deter this behavior. Potential options include the installation of fencing along the Westbrook Boulevard median through the intersection and the installation of wayfinding signage directing pedestrians from the Brookstone neighborhood to utilize the marked crosswalks at one of the two Westbrook Boulevard/Brookstone Drive intersections.

Passenger Loading Activity

The project would generate demand for passenger loading activity. During weekday practices and weekend games/tournaments, this would primarily take the form of parents, friends, etc. picking

up/dropping off players in a private vehicle. During weekend games/tournaments, this would also entail buses/shuttles picking up/dropping off players, coaches, and other team personnel.

Experience from comparable event centers and athletic facilities indicates that without designated passenger loading zones, private vehicle passenger loading activity typically occurs along curbspace at locations closest to the facility. The project proposes the provision of several on-site bus parking spaces that would accommodate buses/shuttles. The project site plan does not provide details regarding proposed passenger loading zones for general use.

It is recommended that designated passenger loading zones be provided along the easterly curbspace within both the northerly and southerly on-site parking lots. It is also recommended that "No Stopping Anytime" signage be installed on the east legs of both Westbrook Boulevard/Brookstone Drive intersections (i.e., the project driveways) to prevent passenger loading activity from interfering with inbound traffic flows.

Finally, it is recommended that the City evaluate bus/large vehicle turning maneuvers and swept paths to ensure that the design of internal roadways/drive aisles can adequately accommodate bus maneuvers to and from the designated on-site bus parking spaces.

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9. Conclusions

The following conclusions and recommendations were identified in this study:

- Transportation Impact Analysis
    - The project would cause less-than-significant impacts to VMT, bicycle facilities, transit service and facilities, and roadway hazards.
    - The project would cause a less-than-significant impact to pedestrian facilities with the implementation of Mitigation Measure 3.1.
- Traffic Operations Analysis
    - Near-Term Plus Project Conditions
        - Several study intersections would conflict with City LOS policies. The following modifications would improve operations at these intersections to acceptable levels:
            - Signalize the Blue Oaks Boulevard/Westbrook Boulevard intersection and maintain the existing lane configurations.
            - Convert the Blue Oaks Boulevard/Westpark Drive intersection from all-way to side-street stop control and maintain the existing lane configurations.
            - Signalize the Blue Oaks Boulevard/Hayden Parkway intersection and widen the eastbound and westbound approaches to each consist of a dedicated left-turn lane and a shared through-right lane.
        - The Westbrook Boulevard/Brookstone Drive North and Westbrook Boulevard/Brookstone Drive South intersections would both meet the peak hour signal warrant during the Saturday AM peak hour. The following modifications are recommended:
            - Signalize the Westbrook Boulevard/Brookstone Drive North and Westbrook Boulevard/Brookstone Drive South intersections.
            - Eliminate the marked crosswalks on the south leg of the Westbrook Boulevard/Brookstone Drive North intersection and the north leg of the Westbrook Boulevard/Brookstone Drive South intersection (due to split phase operations in the eastbound and westbound directions).
        - The project would cause vehicle queues that would block southbound through traffic on Westbrook Boulevard. The following modifications would address this issue:

- At both the Westbrook Boulevard/Brookstone Drive North and Westbrook Boulevard/Brookstone Drive South intersections, construct a southbound left-turn pocket with a storage length of 250 feet.

- Cumulative Plus Project
  - The project would cause the Westbrook Boulevard/Pleasant Grove Boulevard to conflict with City LOS policies. The following modification would improve operations at this intersection to acceptable levels:
    - Modify the Westbrook Boulevard/Pleasant Grove Boulevard intersection signal equipment and signal timing plan to operate with an overlap phase for the westbound right-turn phase (i.e., would operate concurrently with southbound left-turn).
  - The project would require that the future planned traffic signals at the two Westbrook Boulevard/Brookstone Drive intersections operate with split phasing in the eastbound and westbound directions. The following modifications would improve the efficiency of split phase operations at these intersections:
    - Eliminate the marked crosswalks on the south leg of the Westbrook Boulevard/Brookstone Drive North intersection and the north leg of the Westbrook Boulevard/Brookstone Drive South intersection.

- Parking, Access, and Circulation
  - The proposed on-site parking supply would adequately accommodate project-generated parking demand during tournaments.
  - The proposed project driveway throat depths would adequately accommodate queuing associated with inbound and outbound vehicles
  - The following strategies and modifications are recommended to address adverse access and parking effects on Phillip Road:
    - In informational materials related to the soccer complex, tournaments, etc., provide clear information regarding project site access and parking options.
    - Install the following signage:
      - "No Parking" signage on both sides of Phillip Road between the project site and Westpark Drive,
      - "No Soccer Complex Parking" at the driveway serving the Roseville Energy Park gravel parking lot located on the north side of Phillip Road.
      - "Do Not Enter" signage on westbound Phillip Road approaching the project driveway.

        - "Soccer Complex Entrance - Proceed Straight" on westbound Blue Oaks Boulevard approaching Westpark Drive and on northbound Westpark Drive approaching Phillip Road.
        - "Soccer Complex - No Access Via Phillip Road" on northbound and southbound Westpark Drive approaching Phillip Road.
    - Modify the intersection of Phillip Road and the Pleasant Grove Wastewater Treatment Plant north-south access road to include a paved turnout on the northerly side of the intersection.
- It is recommended that the City monitor the Westbrook Boulevard/Durango Way intersection during tournaments at the soccer complex and evaluate the extent to which pedestrian crossing activity occurs. If sufficient pedestrian activity occurs, it is recommended that the City implement measures to deter this behavior.
- The following actions are recommended to accommodate passenger loading activities:
    - Provide designated passenger loading zones along the easterly curbspace within both the northerly and southerly on-site parking lots.
    - Install "No Stopping Anytime" signage on the east legs of both Westbrook Boulevard/Brookstone Drive intersections (i.e., the project driveways).
    - Evaluate bus/large vehicle turning maneuvers and swept paths to ensure that the design of internal roadways/drive aisles can adequately accommodate bus maneuvers to and from the designated on-site bus parking spaces

ATTACHMENT I

ENVIRONMENTAL NOISE ASSESSMENT

Environmental Noise Assessment

City of Roseville Soccer Complex

City of Roseville, California

June 17, 2022

Project #220310

Prepared for:

Montrose Environmental Solutions
1801 7th Street, Suite 100
Sacramento, CA 95811

Prepared by:

Saxelby Acoustics LLC





Luke Saxelby, INCE Bd. Cert.
Principal Consultant
Board Certified, Institute of Noise Control Engineering (INCE)

(916) 760-8821
www.SaxNoise.com | Luke@SaxNoise.com
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

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INTRODUCTION

The City of Roseville Soccer Complex project consists of the development of a ten-field-soccer complex. The project will include 964 off-street parking stalls, a playground area, and picnic areas. The project would be located within the West Roseville Specific Plan area along the east side of Westbrook Boulevard, south of Blue Oaks Boulevard and north of Pleasant Grove Boulevard. The Pleasant Grove Wastewater Treatment Plant borders the project site to the east. The project site is currently vacant.

The City of Roseville has requested that an acoustical analysis be prepared to analyze potential noise impacts associated with the proposed project. Therefore, this analysis will predict the noise generation associated with these uses and will seek to achieve compliance with the applicable City of Roseville General Plan Noise Element goals and policies.

Figure 1 shows the project site plan. **Figure 2** shows an aerial photo of the project site and noise measurement locations.

ENVIRONMENTAL SETTING

BACKGROUND INFORMATION ON NOISE

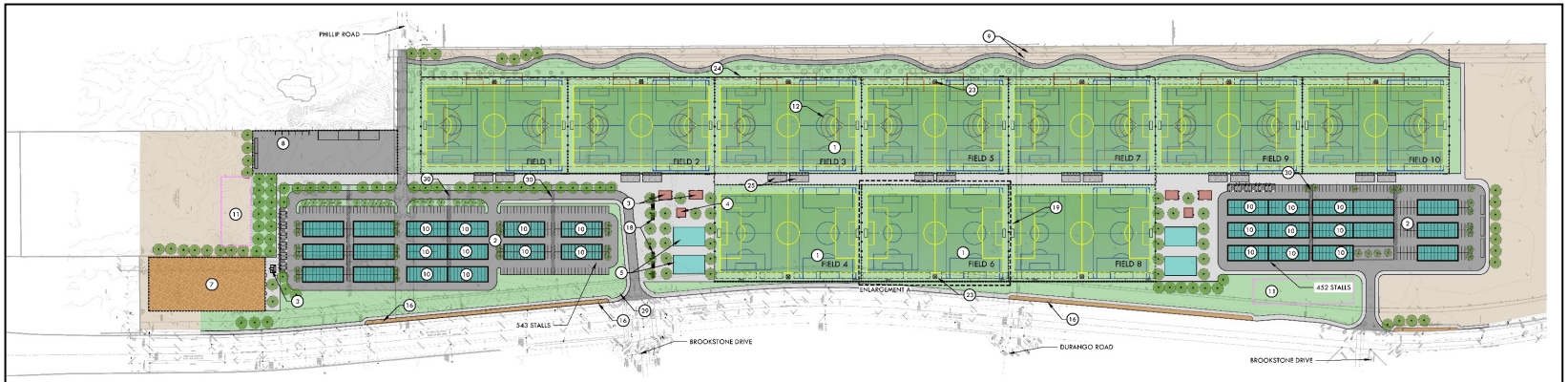
Fundamentals of Acoustics

Acoustics is the science of sound. Sound may be thought of as mechanical energy of a vibrating object transmitted by pressure waves through a medium to human (or animal) ears. If the pressure variations occur frequently enough (at least 20 times per second), then they can be heard and are called sound. The number of pressure variations per second is called the frequency of sound, and is expressed as cycles per second or Hertz (Hz).

Noise is a subjective reaction to different types of sounds. Noise is typically defined as (airborne) sound that is loud, unpleasant, unexpected or undesired, and may therefore be classified as a more specific group of sounds. Perceptions of sound and noise are highly subjective from person to person.

Measuring sound directly in terms of pressure would require a very large and awkward range of numbers. To avoid this, the decibel scale was devised. The decibel scale uses the hearing threshold (20 micropascals), as a point of reference, defined as 0 dB. Other sound pressures are then compared to this reference pressure, and the logarithm is taken to keep the numbers in a practical range. The decibel scale allows a million-fold increase in pressure to be expressed as 120 dB, and changes in levels (dB) correspond closely to human perception of relative loudness.

The perceived loudness of sounds is dependent upon many factors, including sound pressure level and frequency content. However, within the usual range of environmental noise levels, perception of loudness is relatively predictable, and can be approximated by A-weighted sound levels. There is a strong correlation between A-weighted sound levels (expressed as dBA) and the way the human ear perceives sound. For this reason, the A-weighted sound level has become the standard tool of environmental noise assessment. All noise levels reported in this section are in terms of A-weighted levels, but are expressed as dB, unless otherwise noted.



LEGEND

1. FIELDS:
   70 YARDS x 120 YARDS
   22.5' X 15' BUFFER
2. PARKING LOT (95 STALLS/FIELD):
   - NORTH LOT 543 PARKING STALLS
   - SOUTH LOT 452 PARKING STALLS
3. RESTROOM
4. CONCESSIONS BUILDING
5. SOLAR PICNIC SHADE STRUCTURE (50' X84')
6. TEMPORARY NETTING
7. ALL ACCESSIBLE PLAY AREA (1 ACRE)
8. PARK STORAGE/MAINTENANCE EQUIPMENT
9. EXISTING OVERHEAD POWER LINE
10. SOLAR SHADE STRUCTURES - PARKING
    108' X 40' = 24 PARKING STALLS
11. BIOREMEDIATION = 31,000 SQUARE FEET
12. LACROSSE FIELD STRIPING (FOR REFERENCE)
13. U10 YOUTH SOCCER STRIPING (45 YDS X 65 YDS)
14. U12 YOUTH SOCCER STRIPING (50 YDS X 80 YDS)
15. MAINTENANCE ROAD/ PERIMETER WALKWAY
16. PLANTING BED
17. BUS DROP OFF
18. FOOD TRUCK PARKING
19. 16' TALL CHAIN LINK FENCE
20. 8' TALL CHAIN LINK FENCE
21. 42" TALL CHAIN LINK FENCE
22. 6' TALL ORNAMENTAL FENCE
23. 10'X10' POP-UP TENT WITH SCORER'S TABLE
24. SPORTS LIGHTING
25. SOLAR SHADE STRUCTURES - PROMENADE
26. SOCCER GOAL
27. PLAYER'S AREA
28. WARM-UP AREA
29. PARK ENTRY SIGN
30. PEDESTRIAN CROSSING

ADD ALTERNATE 1:

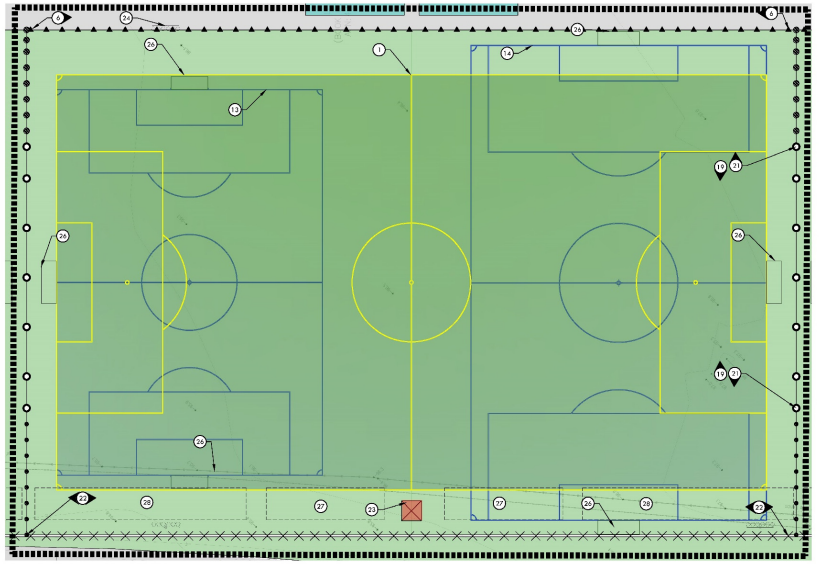
FIELDS 2 & 9
4 CANTILEVER SOLAR SHADE STRUCTURES
SOUTH PLAZA AREA
91 PARKING STALLS- NORTH
3 SOLAR SHADE STRUCTURES - NORTH PARKING
102 PARKING STALLS- SOUTH
2 SOLAR SHADE STRUCTURES - SOUTH PARKING

FUTURE PHASE:

FIELDS 1 &10
4 CANTILEVER SOLAR SHADE STRUCTURES
PERIMETER WALKWAY
92 PARKING STALLS - NORTH
3 SOLAR SHADE STRUCTURES - NORTH PARKING
104 PARKING STALLS - SOUTH
3 SOLAR SHADE STRUCTURES - SOUTH PARKING

NORTH

JANUARY 17, 2022



ENLARGEMENT A SCALE: 1"=20'

CITY OF ROSEVILLE CALIFORNIA

City of Roseville Soccer Complex
MASTER PLAN - CONCEPT
City of Roseville
Westbrook Boulevard

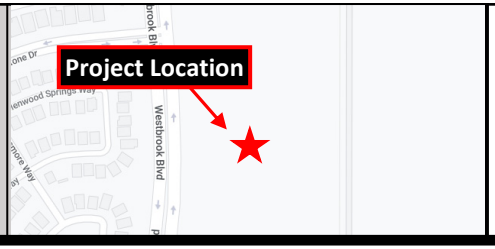
VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd, Suite 140
Folsom, CA 95630
tel: 408.985.7200
fax: 408.985.7260
www.verdedesigninc.com

City of Roseville Soccer Complex

City of Roseville, California

Figure 1

Project Site Plan



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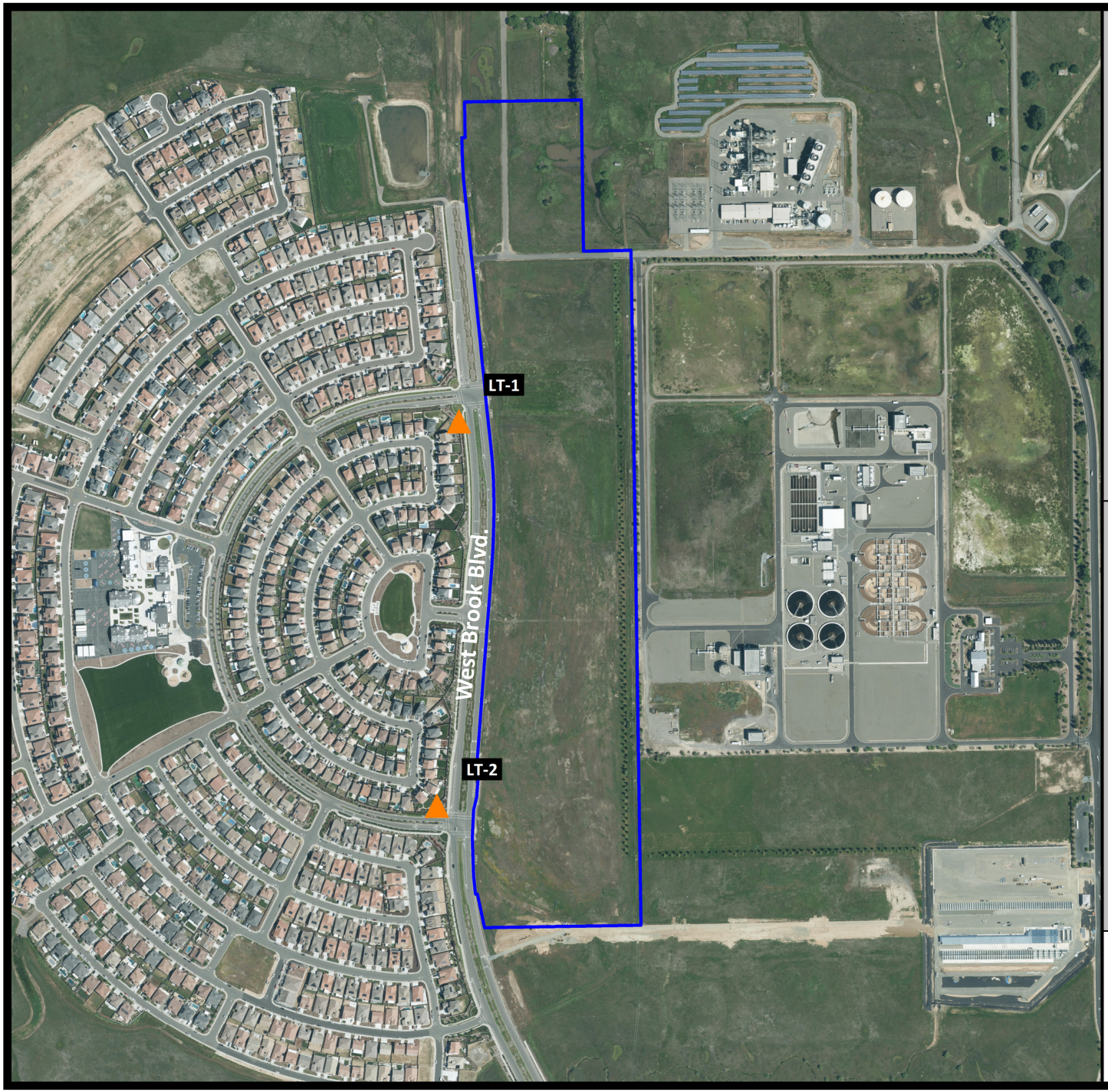

City of Roseville Soccer Complex

City of Roseville, California

Figure 2

Noise Measurement Sites

Legend

- Project Site
- Noise Measurement Site - Long Term

0 ft 500 ft 1000 ft

Projection: UTM Zone 10 / WGS84 / meters
Rev. Date: 04/22/2022

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The decibel scale is logarithmic, not linear. In other words, two sound levels 10-dB apart differ in acoustic energy by a factor of 10. When the standard logarithmic decibel is A-weighted, an increase of 10-dBA is generally perceived as a doubling in loudness. For example, a 70-dBA sound is half as loud as an 80-dBA sound, and twice as loud as a 60 dBA sound.

Community noise is commonly described in terms of the ambient noise level, which is defined as the all-encompassing noise level associated with a given environment. A common statistical tool is the average, or equivalent, sound level (L_{eq}), which corresponds to a steady-state A weighted sound level containing the same total energy as a time varying signal over a given time period (usually one hour). The L_{eq} is the foundation of the composite noise descriptor, L_{dn}, and shows very good correlation with community response to noise.

The day/night average level (L_{dn}) is based upon the average noise level over a 24-hour day, with a +10-decibel weighing applied to noise occurring during nighttime (10:00 p.m. to 7:00 a.m.) hours. The nighttime penalty is based upon the assumption that people react to nighttime noise exposures as though they were twice as loud as daytime exposures. Because L_{dn} represents a 24-hour average, it tends to disguise short-term variations in the noise environment.

Table 1 lists several examples of the noise levels associated with common situations. **Appendix A** provides a summary of acoustical terms used in this report.

TABLE 1: TYPICAL NOISE LEVELS

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	--110--	Rock Band
Jet Fly-over at 300 m (1,000 ft.)	--100--	
Gas Lawn Mower at 1 m (3 ft.)	--90--	
Diesel Truck at 15 m (50 ft.), at 80 km/hr. (50 mph)	--80--	Food Blender at 1 m (3 ft.) Garbage Disposal at 1 m (3 ft.)
Noisy Urban Area, Daytime Gas Lawn Mower, 30 m (100 ft.)	--70--	Vacuum Cleaner at 3 m (10 ft.)
Commercial Area Heavy Traffic at 90 m (300 ft.)	--60--	Normal Speech at 1 m (3 ft.)
Quiet Urban Daytime	--50--	Large Business Office Dishwasher in Next Room
Quiet Urban Nighttime	--40--	Theater, Large Conference Room (Background)
Quiet Suburban Nighttime	--30--	Library
Quiet Rural Nighttime	--20--	Bedroom at Night, Concert Hall (Background)
	--10--	Broadcast/Recording Studio
Lowest Threshold of Human Hearing	--0--	Lowest Threshold of Human Hearing
Source: Caltrans, Technical Noise Supplement, Traffic Noise Analysis Protocol. September, 2013.		

Effects of Noise on People

The effects of noise on people can be placed in three categories:

- Subjective effects of annoyance, nuisance, and dissatisfaction
- Interference with activities such as speech, sleep, and learning
- Physiological effects such as hearing loss or sudden startling

Environmental noise typically produces effects in the first two categories. Workers in industrial plants can experience noise in the last category. There is no completely satisfactory way to measure the subjective effects of noise or the corresponding reactions of annoyance and dissatisfaction. A wide variation in individual thresholds of annoyance exists and different tolerances to noise tend to develop based on an individual's past experiences with noise.

Thus, an important way of predicting a human reaction to a new noise environment is the way it compares to the existing environment to which one has adapted: the so-called ambient noise level. In general, the more a new noise exceeds the previously existing ambient noise level, the less acceptable the new noise will be judged by those hearing it.

With regard to increases in A-weighted noise level, the following relationships occur:

- Except in carefully controlled laboratory experiments, a change of 1-dBA cannot be perceived;
- Outside of the laboratory, a 3-dBA change is considered a just-perceivable difference;
- A change in level of at least 5-dBA is required before any noticeable change in human response would be expected; and
- A 10-dBA change is subjectively heard as approximately a doubling in loudness, and can cause an adverse response.

Stationary point sources of noise – including stationary mobile sources such as idling vehicles – attenuate (lessen) at a rate of approximately 6-dB per doubling of distance from the source, depending on environmental conditions (i.e. atmospheric conditions and either vegetative or manufactured noise barriers, etc.). Widely distributed noises, such as a large industrial facility spread over many acres, or a street with moving vehicles, would typically attenuate at a lower rate.

EXISTING AMBIENT NOISE LEVELS

To quantify the existing ambient noise environment in the project vicinity, Saxelby Acoustics conducted a continuous (24-hr.) noise level measurement at two locations near sensitive receptors adjacent to the project site over four days. Noise measurement locations are shown on **Figure 2**. A summary of the noise level measurement survey results is provided in **Table 2**. **Appendix B** contains the complete results of the noise monitoring.

The sound level meters were programmed to record the maximum, median, and average noise levels at each site during the survey. The maximum value, denoted L_{max}, represents the highest noise level measured. The average value, denoted L_{eq}, represents the energy average of all of the noise received by the sound level meter microphone during the monitoring period. The median value, denoted L_{50}, represents the sound level exceeded 50 percent of the time during the monitoring period.

Larson Davis Laboratories (LDL) model 820 precision integrating sound level meters were used for the ambient noise level measurement survey. The meters were calibrated before and after use with a CAL 200 acoustical calibrator to ensure the accuracy of the measurements. The equipment used meets all pertinent specifications of the American National Standards Institute for Type 1 sound level meters (ANSI S1.4).

TABLE 2: SUMMARY OF EXISTING BACKGROUND NOISE MEASUREMENT DATA

Location	Date	L_{dn}	Daytime L_{eq}	Daytime L_{50}	Daytime L_{max}	Nighttime L_{eq}	Nighttime L_{50}	Nighttime L_{max}
LT-1: 75 ft. to CL of Westbrook Blvd.	4/23/2022	62	62	53	83	52	46	68
	4/24/2022	61	62	51	84	51	43	69
	4/25/2022	62	61	53	83	53	46	72
	4/26/2022	62	62	53	85	53	45	72
LT-2: 115 ft. to CL of Westbrook Blvd.	4/23/2022	57	57	50	80	48	44	69
	4/24/2022	60	61	50	82	48	44	65
	4/25/2022	60	58	53	78	52	44	71
	4/26/2022	60	58	53	78	52	44	71

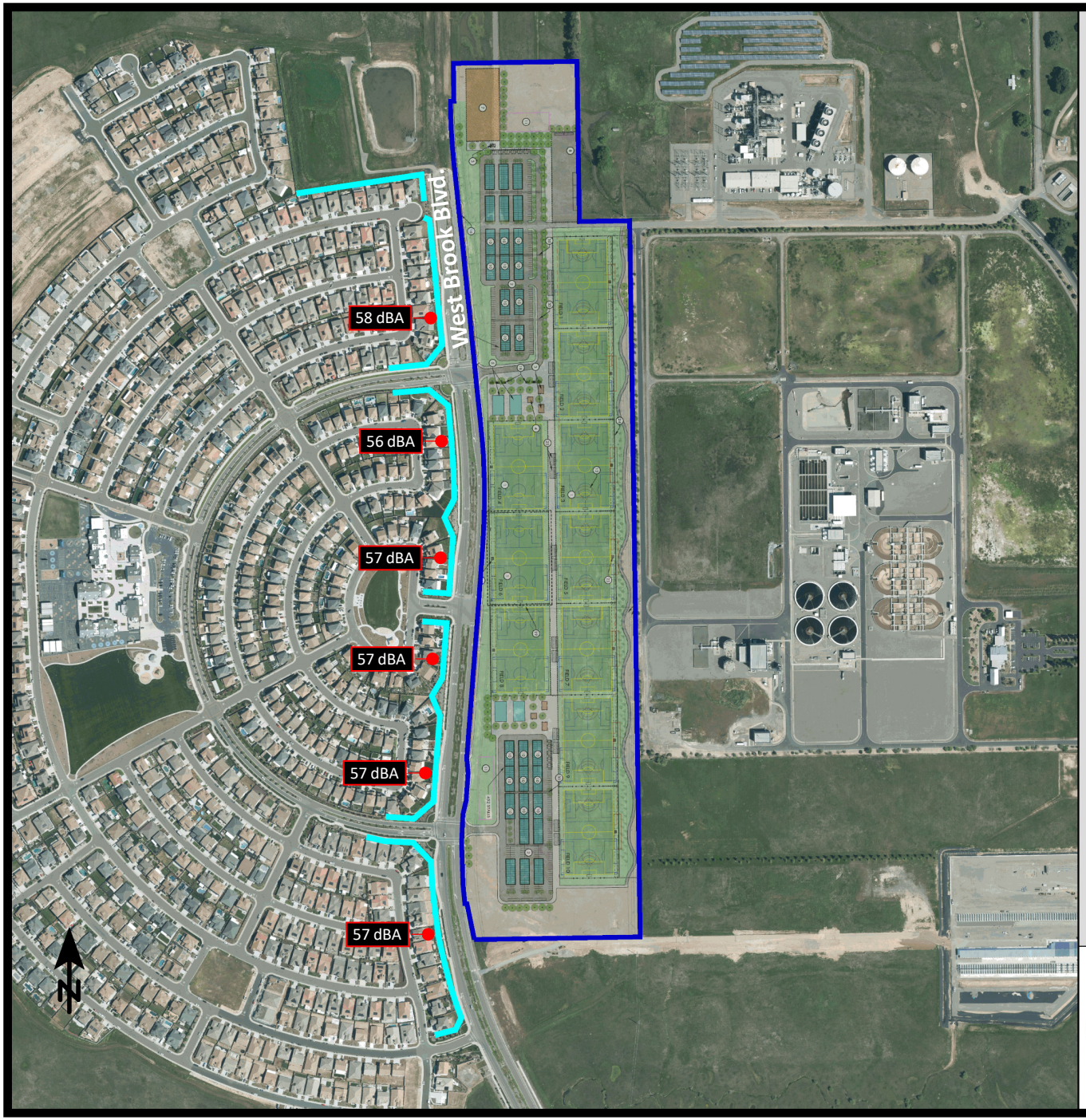
Notes:

- *All values shown in dBA*
- *Daytime hours: 7:00 a.m. to 10:00 p.m.*
- *Nighttime Hours: 10:00 p.m. to 7:00 a.m.*
- *Source: Saxelby Acoustics 2022*

AMBIENT NOISE LEVELS AT SENSITIVE RECEPTORS

To accurately assess the effect of the proposed project on surrounding sensitive uses, Saxelby Acoustics determined the existing ambient noise levels in the backyard areas of the nearby residences which are shielded by existing concrete masonry sound walls located along Westbrook Boulevard. Using the data collected during the long-term noise level survey, Saxelby Acoustics modeled noise levels emanating from Westbrook Blvd at the existing noise-sensitive receptor backyards. It should be noted that Westbrook Boulevard was noted as the primary daytime noise source. However, contributions to ambient noise from the Roseville Energy Park or the Pleasant Grove Waste Water Treatment Plan (WWTP) are also included in the collected ambient noise readings.

Inputs to the model included sound power levels for Westbrook Boulevard, existing sound walls, buildings, terrain type, and locations of sensitive receptors. These predictions are made in accordance with International Organization for Standardization (ISO) standard 9613-2:1996 (Acoustics – Attenuation of sound during propagation outdoors). ISO 9613 is the most commonly used method for calculating exterior noise propagation. The results of this analysis are shown graphically on **Figure 3** in terms of the average (L_{eq}) daytime (7:00 a.m. to 10:00 p.m.) noise levels.



City of Roseville Soccer Complex

City of Roseville, California

Figure 3

Existing Daytime (7 a.m. to 10 p.m.) Average Ambient Noise Levels (dBA L^{eq})

Signs and symbols

- Project Boundary
- Existing wall

1 : 7350

0 37.5 75 150 225 300 m

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EVALUATION OF OPERATIONAL NOISE AT RESIDENTIAL RECEPTORS

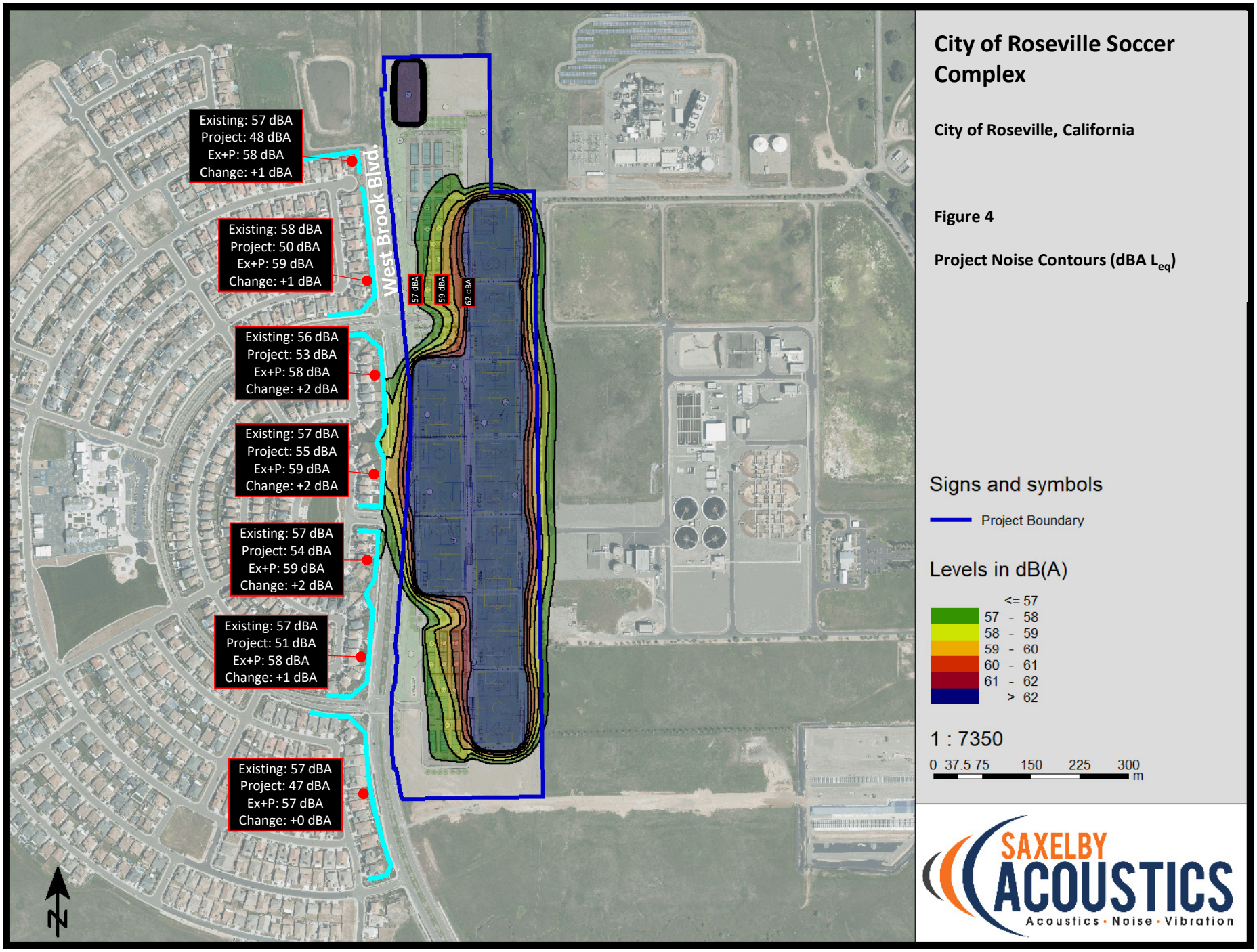
The primary noise sources associated with a soccer field are loud conversation amongst players and coaches on the field, referee whistles, and crowd noise. Secondary noise sources associated with the project include a playground at the north of the project site. This analysis considers each of these noise sources along with vehicle circulation on the project site. The following is a list of assumptions used for the noise modeling. The data used is based upon Saxelby Acoustics data from similar facilities and predicted project trip generation volumes from the traffic engineer (Fehr & Peers).

On-Site Circulation: The proposed soccer complex is predicted to generate up to 480 peak hour trips during a typical weekday and up to 1,074 peak hour trips during tournaments (Fehr & Peers). Parking lot movements are predicted to generate a sound exposure level (SEL) of 71 dBA SEL at 50 feet for cars. Nighttime traffic outside of the AM or PM peak hour is not expected to occur. Saxelby Acoustics data.

Soccer Field: Based upon measurements taken at various facilities, soccer games varied in noise level from 52 to 55 dBA L_{eq} at 200 feet as measured from the center of the field to sidelines opposite of spectators. It was assumed that half of the fields would operate at 52 dBA L_{eq} at 200 feet and half would operate at 55 dBA L_{eq} at 200 feet. Maximum (L_{max}) noise levels for a typical soccer game were found to be 73 dBA at 200 feet.

Playground Area: Recreational activity in center of playground area at 55 dBA L_{eq} and 75 dBA L_{max} at 100 feet. Daytime use only. Saxelby Acoustics data.

Saxelby Acoustics used the SoundPLAN noise prediction model. Inputs to the model included sound power levels for the proposed soccer fields, parking lots, and playground, existing and proposed buildings, existing sound walls, terrain type, and locations of sensitive receptors. These predictions are made in accordance with International Organization for Standardization (ISO) standard 9613-2:1996 (Acoustics – Attenuation of sound during propagation outdoors). ISO 9613 is the most commonly used method for calculating exterior noise propagation. The results of this analysis are shown graphically on **Figure 4**.



City of Roseville Soccer Complex

City of Roseville, California

Figure 4

Project Noise Contours (dBA L_{eq})

Signs and symbols

Project Boundary

Levels in dB(A)

<= 57
57 - 58
58 - 59
59 - 60
60 - 61
61 - 62
> 62

1 : 7350

0 37.5 75 150 225 300 m

SAXELBY ACOUSTICS
Acoustics · Noise · Vibration

CONSTRUCTION NOISE ENVIRONMENT

During the construction of the proposed project noise from construction activities would temporarily add to the noise environment in the project vicinity. As shown in **Table 3**, activities involved in construction would generate maximum noise levels ranging from 76 to 90 dB at a distance of 50 feet.

TABLE 3: CONSTRUCTION EQUIPMENT NOISE

Type of Equipment	Maximum Level, dBA at 50 feet
Auger Drill Rig	84
Backhoe	78
Compactor	83
Compressor (air)	78
Concrete Saw	90
Dozer	82
Dump Truck	76
Excavator	81
Generator	81
Jackhammer	89
Pneumatic Tools	85

Source: Roadway Construction Noise Model User's Guide. Federal Highway Administration. FHWA-HEP-05-054. January 2006.

CONSTRUCTION VIBRATION ENVIRONMENT

The primary vibration-generating activities associated with the proposed project would occur during construction when activities such as grading, utilities placement, and parking lot construction occur. **Table 4** shows the typical vibration levels produced by construction equipment.

TABLE 4: VIBRATION LEVELS FOR VARIOUS CONSTRUCTION EQUIPMENT

Type of Equipment	Peak Particle Velocity at 25 feet (inches/second)	Peak Particle Velocity at 50 feet (inches/second)	Peak Particle Velocity at 100 feet (inches/second)
Large Bulldozer	0.089	0.031	0.011
Loaded Trucks	0.076	0.027	0.010
Small Bulldozer	0.003	0.001	0.000
Auger/drill Rigs	0.089	0.031	0.011
Jackhammer	0.035	0.012	0.004
Vibratory Hammer	0.070	0.025	0.009
Vibratory Compactor/roller	0.210 (Less than 0.20 at 26 feet)	0.074	0.026

Source: Transit Noise and Vibration Impact Assessment Guidelines. Federal Transit Administration. May 2006.

REGULATORY CONTEXT

FEDERAL

There are no federal regulations related to noise that apply to the Proposed Project.

STATE

There are no state regulations related to noise that apply to the Proposed Project.

LOCAL

City of Roseville General Plan

The City of Roseville General Plan Noise Element Table 1X-3 (**Table 3**) establishes an acceptable exterior noise level of 50 dBA L_{eq} for daytime (7:00 a.m. to 10:00 p.m.) for stationary noise sources.

TABLE 3: CITY OF ROSEVILLE NOISE ELEMENT TABLE 1X-3

TABLE IX-3

PERFORMANCE STANDARDS
FOR NON-TRANSPORTATION NOISE SOURCES
OR PROJECTS AFFECTED BY NON-TRANSPORTATION NOISE SOURCES
(As Measured at the Property Line of Noise-Sensitive Uses)

Noise Level Descriptor	Daytime (7 a.m. to 10 p.m.)	Nighttime (10 p.m. to 7 a.m.)
Hourly L_{eq}, dB	50	45
Maximum level, dB	70	65

[1] For municipal power plants consisting primarily of broadband, steady state noise sources, the hourly (Leq) noise standard may be increased up to 10 dB(A), but not exceed 55 dB(A) Hourly Leq dB.

Each of the noise levels specified above should be lowered by five dB for simple tone noises, noises consisting primarily of speech or music, or for recurring impulsive noises. Such noises are generally considered by residents to be particularly annoying and are a primary source of noise complaints. These noise level standards do not apply to residential units established in conjunction with industrial or commercial uses (e.g., caretaker dwellings).

No standards have been included for interior noise levels. Standard construction practices should, with exterior noise levels identified, result in acceptable interior noise levels.

SOURCE: CITY OF ROSEVILLE GENERAL PLAN NOISE ELEMENT 2035.

City of Roseville Noise Ordinance

The City of Roseville Municipal Code outlines the following sound limits for sensitive receptors:

9.24.100 SOUND LIMITS FOR SENSITIVE RECEPTORS.

It is unlawful for any person at any location to create any sound, or to allow the creation of any sound, on property owned, leased, occupied or otherwise controlled by such person, which causes the exterior sound level when measured at the property line of any affected sensitive receptor to exceed the ambient sound level by three dBA or exceed the sound level standards as set forth in Table 1, by three dBA, whichever is greater.

Table 1
SOUND LEVEL STANDARDS
(for non-transportation or fixed sound sources)

Sound Level Descriptor	*Daytime (7:00 a.m. to 10:00 p.m.)*	*Nighttime (10:00 p.m. to 7:00 a.m.)*
Hourly l_{eq}, dB	*50*	*45*
Maximum level, dB	*70*	*65*

A. Each of the sound level standards specified in Table 1 shall be reduced by five dB for simple tone noises, consisting of speech and music. However, in no case shall the sound level standard be lower than the ambient sound level plus three dB.

B. If the intruding sound source is continuous and cannot reasonably be discontinued or stopped for a time period whereby the ambient sound level can be measured, the sound level measured while the source is in operation shall be compared directly to the sound level standards of Table 1. (Ord. 3638 § 1, 2001.)

9.24.130 SOUND LIMITS FOR EVENTS ON PUBLIC PROPERTY.

Notwithstanding the provisions of Section 9.24.100, sound sources associated with outside activities on public property (e.g. athletic events, sporting events, fairs, and entertainment events) between the hours of 8:00 a.m. and 10:30 p.m., Sunday through Thursday, and between the hours of 8:00 a.m. and 11:00 p.m. on Fridays, Saturdays, and city-recognized holidays, shall not exceed 80 dBA, Lmax at the property line of the property on which the event is being held. (Ord. 3638 § 1, 2001.)

9.24.030 EXEMPTIONS.

Sound or noise emanating from the following sources and activities are exempt from the provisions of this title:

A. Sound sources typically associated with residential uses (e.g., children at play, air conditioning and similar equipment, but not including barking dogs);

B. Sound sources associated with property maintenance (e.g., lawn mowers, edgers, blowers, pool pumps, power tools, etc.) provided such activities take place between the hours of 8:00 a.m. and 9:00 p.m.;

C. Safety, warning and alarm devices, including house and car alarms, and other warning devices that are designed to protect the health, safety and welfare, provided such devices are not negligently maintained or operated;

D. The normal operation of public and private schools typically consisting of classes and other school-sponsored activities;

E. Maintenance (e.g., lawn mowers, edgers, aerators, blowers, etc.) of golf courses, provided such activities take place between the hours of 5:00 a.m. and 9:00 p.m. May through September, and 6:00 a.m. and 9:00 p.m. October through April;

F. Emergencies involving the execution of the duties of duly authorized governmental personnel and others providing emergency response to the general public, including, but not limited to, sworn peace officers, emergency personnel, utility personnel, and the operation of emergency response vehicles and equipment;

G. Private construction (e.g., construction, alteration or repair activities) between the hours of 7:00 a.m. and 7:00 p.m. Monday through Friday, and between the hours of 8:00 a.m. and 8:00 p.m. Saturday and Sunday; provided, however, that all construction equipment shall be fitted with factory installed muffling devices and that all construction equipment shall be maintained in good working order. (Ord. 3638 § 1, 2001.)

CRITERIA FOR ACCEPTABLE VIBRATION

Vibration is like noise in that it involves a source, a transmission path, and a receiver. While vibration is related to noise, it differs in that in that noise is generally considered to be pressure waves transmitted through air, whereas vibration usually consists of the excitation of a structure or surface. As with noise, vibration consists of an amplitude and frequency. A person's perception to the vibration will depend on their individual sensitivity to vibration, as well as the amplitude and frequency of the source and the response of the system which is vibrating.

Vibration can be measured in terms of acceleration, velocity, or displacement. A common practice is to monitor vibration measures in terms of peak particle velocities in inches per second. Standards pertaining to perception as well as damage to structures have been developed for vibration levels defined in terms of peak particle velocities.

Human and structural response to different vibration levels is influenced by a number of factors, including ground type, distance between source and receptor, duration, and the number of perceived vibration events. **Table 8**, which was developed by Caltrans, shows the vibration levels which would normally be required to result in damage to structures. The vibration levels are presented in terms of peak particle velocity in inches per second.

Table 8 indicates that the threshold for architectural damage to structures is 0.20 in/sec p.p.v. A threshold of 0.2 in/sec p.p.v. is considered to be a reasonable threshold for short-term construction projects.

TABLE 5: EFFECTS OF VIBRATION ON PEOPLE AND BUILDINGS

Peak Particle Velocity		Human Reaction	Effect on Buildings
mm/second	in/second		
0.15-0.30	0.006-0.019	Threshold of perception; possibility of intrusion	Vibrations unlikely to cause damage of any type
2.0	0.08	Vibrations readily perceptible	Recommended upper level of the vibration to which ruins and ancient monuments should be subjected
2.5	0.10	Level at which continuous vibrations begin to annoy people	Virtually no risk of "architectural" damage to normal buildings
5.0	0.20	Vibrations annoying to people in buildings (this agrees with the levels established for people standing on bridges and subjected to relative short periods of vibrations)	Threshold at which there is a risk of "architectural" damage to normal dwelling - houses with plastered walls and ceilings. Special types of finish such as lining of walls, flexible ceiling treatment, etc., would minimize "architectural" damage
10-15	0.4-0.6	Vibrations considered unpleasant by people subjected to continuous vibrations and unacceptable to some people walking on bridges	Vibrations at a greater level than normally expected from traffic, but would cause "architectural" dam age and possibly minor structural damage

Source: Transportation Related Earthborne Vibrations. Caltrans. TAV-02-01-R9601. February 20, 2002.

IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

Appendix G of the CEQA Guidelines states that a project would normally be considered to result in significant noise impacts if noise levels conflict with adopted environmental standards or plans or if noise generated by the project would substantially increase existing noise levels at sensitive receivers on a permanent or temporary basis. Significance criteria for noise impacts are drawn from CEQA Guidelines Appendix G (Items XI [a-f]).

Would the project:

a. Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

b. Generate excessive groundborne vibration or groundborne noise levels?

c. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

TEMPORARY CONSTRUCTION NOISE INCREASES

Per the City of Roseville Municipal Code, construction activities are exempt assuming that they occur between the hours of 7:00 a.m. and 7:00 p.m. Monday through Friday, and between the hours of 8:00 a.m. and 8:00 p.m. Saturday and Sunday; provided, however, that all construction equipment shall be fitted with factory installed muffling devices and that all construction equipment shall be maintained in good working order.

CONSTRUCTION VIBRATION CRITERIA

A threshold of 0.2 in/sec p.p.v. is considered to be a reasonable threshold for short-term construction projects.

NOISE LEVEL INCREASE CRITERIA FOR LONG-TERM PROJECT-RELATED NOISE LEVEL INCREASES

Per the City of Roseville Municipal Code noise ordinance, an increase in ambient noise levels exceeding 3 dBA would be considered significant.

PROJECT-SPECIFIC IMPACTS AND MITIGATION MEASURES

Impact 1: ***Would the project generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?***

Traffic Noise Increases at Off-Site Receptors

Based upon the transportation analysis prepared for the project (Fehr & Peers, June 2022) the proposed project is predicted to result in a reduction of 382 daily vehicle trips as compared to the planned vehicle trips assumed for the underlying land use assumed in the West Roseville Specific Plan. Therefore, potential impacts resulting from increased traffic noise would be considered ***less-than-significant***.

Operational Noise at Sensitive Receptors

PROJECT NOISE EXPOSURE

As shown in **Figure 3**, the ambient noise levels at sensitive receptors adjacent to the project site were found to range from 56 to 58 dBA L_{eq} during daytime hours due primarily to existing traffic noise, the Roseville Energy Park, and the Pleasant Grove WWTP. This already exceeds the City of Roseville 50 dBA L_{eq} daytime noise standard, shown in **Table 3**. Therefore, this analysis examines whether the project would cause a significant increase in ambient noise levels. **Figure 4** shows that project noise levels at the nearest backyards along Westbrook Boulevard range from 47 to 55 dBA L_{eq}, causing ambient noise increases ranging from 0- to 2-dBA L_{eq}. This is less than the 3 dBA standard established in the City of Roseville Municipal Code noise ordinance Section 9.24.100.

It should also be noted that the maximum property line noise level at the soccer complex is predicted to be 62 dBA L_{eq}. Maximum (Lmax) noise levels from typical soccer activity was measured by Saxelby Acoustics to be 18 dBA higher than average (L_{eq}) values. Therefore, the property line maximum noise level is predicted to be 80 dBA L_{max}. This complies with the City of Roseville Municipal Code noise ordinance requirement that sound sources associated with outside activities on public property not exceed 80 dBA L_{max} at the property line on which the event is being held, as outlined in Section 9.24.130.

Therefore, operational noise from the project would be considered ***less-than-significant.***

Construction Noise

During the construction phases of the project, noise from construction activities would add to the noise environment in the immediate project vicinity. As indicated in **Table 4**, activities involved in construction would generate maximum noise levels ranging from 76 to 90 dBA L_{max} at a distance of 50 feet. Most of the project construction would occur at distances of 200 feet or greater from the nearest residences. Additionally, construction noise would be shielded by existing masonry sound walls located along Westbrook Boulevard. At 200 feet, maximum noise levels from the loudest pieces of equipment would be approximately 73 dBA L_{max} in the nearest residential backyards. Existing maximum noise levels are estimated to be approximately 76-78 dBA L_{max} in the nearest residential backyards. Therefore, project construction is not predicted to increase existing noise levels at the nearest noise sensitive receptors.

Construction noise associated with parking lot paving would be similar to noise that would be associated with public works projects, such as a roadway widening or street paving projects. Construction activities would be temporary in nature and are anticipated to occur during normal daytime working hours.

Noise would also be generated during the construction phase by increased truck traffic on area roadways. A project-generated noise source would be truck traffic associated with transport of heavy materials and equipment to and from the construction site. This noise increase would be of short duration and would occur primarily during daytime hours.

The City of Roseville exempts construction noise from the Noise Ordinance provisions if construction activity is limited to daytime hours. These exemptions are typical of City and County noise ordinances and reflect the recognition that construction-related noise is temporary in character, is generally acceptable when limited to daylight hours, and is part of what residents of urban areas expect as part of a typical urban noise environment (along with sirens, etc.)

This is a **less-than-significant** impact, and no mitigation is required.

Impact 2: ***Would the project generate excessive groundborne vibration or groundborne noise levels?***

Construction vibration impacts include human annoyance and building structural damage. Human annoyance occurs when construction vibration rises significantly above the threshold of perception. Building damage can take the form of cosmetic or structural.

The **Table 4** data indicate that construction vibration levels anticipated for the project are less than the 0.2 in/sec threshold at distances of 26 feet. Sensitive receptors which could be impacted by construction related vibrations, especially vibratory compactors/rollers, are located approximately 26 feet, or further, from typical construction activities. At these distances construction vibrations are not predicted to exceed acceptable levels. Additionally, construction activities would be temporary in nature and would likely occur during normal daytime working hours.

This is a **less-than-significant** impact and no mitigation is required.

Impact 3: ***For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?***

There are no projects within 2 miles of the project site. Therefore, this impact is not applicable to the proposed project.

REFERENCES

American National Standards Institute. (1998). *[Standard] ANSI S1.43-1997 (R2007): Specifications for integrating-averaging sound level meters*. New York: Acoustical Society of America.

American Standard Testing Methods, *Standard Guide for Measurement of Outdoor A-Weighted Sound Levels, American Standard Testing Methods (ASTM) E1014-08*, 2008.

ASTM E1014-12. *Standard Guide for Measurement of Outdoor A-Weighted Sound Levels*. ASTM International. West Conshohocken, PA. 2012.

ASTM E1780-12. *Standard Guide for Measuring Outdoor Sound Received from a Nearby Fixed Source.* ASTM International. West Conshohocken, PA. 2012.

Barry, T M. (1978). *FHWA highway traffic noise prediction model* (FHWA-RD-77-108). Washington, DC: U.S. Department of transportation, Federal highway administration, Office of research, Office of environmental policy.

California Department of Transportation (Caltrans), *Technical Noise Supplement, Traffic Noise Analysis Protocol*, September 2013.

Egan, M. D. (1988). Architectural acoustics. United States of America: McGraw-Hill Book Company.

Federal Highway Administration. *FHWA Roadway Construction Noise Model User's Guide.* FHWA-HEP-05-054 DOT-VNTSC-FHWA-05-01. January 2006.

Hanson, Carl E. (Carl Elmer). (2006). *Transit noise and vibration impact assessment*. Washington, DC: U.S. Department of Transportation, Federal Transit Administration, Office of Planning and Environment.

International Electrotechnical Commission. Technical committee 29: Electroacoustics. International Organization of Legal Metrology. (2013). *Electroacoustics: Sound level meters*.

International Organization for Standardization. (1996). *Acoustic - ISO 9613-2: Attenuation of sound during propagation outdoors. Part 2: General methods of calculation*. Ginevra: I.S.O.

Miller, L. N., Bolt, Beranek, & and Newman, Inc. (1981). *Noise control for buildings and manufacturing plants*. Cambridge, MA: Bolt, Beranek and Newman, Inc.

SoundPLAN. SoundPLAN GmbH. Backnang, Germany. http://www.soundplan.eu/english/

Appendix A: Acoustical Terminology

Acoustics	The science of sound.
Ambient Noise	The distinctive acoustical characteristics of a given space consisting of all noise sources audible at that location. In many cases, the term ambient is used to describe an existing or pre-project condition such as the setting in an environmental noise study.
ASTC	Apparent Sound Transmission Class. Similar to STC but includes sound from flanking paths and correct for room reverberation. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
Attenuation	The reduction of an acoustic signal.
A-Weighting	A frequency-response adjustment of a sound level meter that conditions the output signal to approximate human response.
Decibel or dB	Fundamental unit of sound, A Bell is defined as the logarithm of the ratio of the sound pressure squared over the reference pressure squared. A Decibel is one-tenth of a Bell.
CNEL	Community Noise Equivalent Level. Defined as the 24-hour average noise level with noise occurring during evening hours (7 - 10 p.m.) weighted by +5 dBA and nighttime hours weighted by +10 dBA.
DNL	See definition of Ldn.
IIC	Impact Insulation Class. An integer-number rating of how well a building floor attenuates impact sounds, such as footsteps. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
Frequency	The measure of the rapidity of alterations of a periodic signal, expressed in cycles per second or hertz (Hz).
Ldn	Day/Night Average Sound Level. Similar to CNEL but with no evening weighting.
Leq	Equivalent or energy-averaged sound level.
Lmax	The highest root-mean-square (RMS) sound level measured over a given period of time.
L(n)	The sound level exceeded a described percentile over a measurement period. For instance, an hourly L50 is the sound level exceeded 50% of the time during the one-hour period.
Loudness	A subjective term for the sensation of the magnitude of sound.
NIC	Noise Isolation Class. A rating of the noise reduction between two spaces. Similar to STC but includes sound from flanking paths and no correction for room reverberation.
NNIC	Normalized Noise Isolation Class. Similar to NIC but includes a correction for room reverberation.
Noise	Unwanted sound.
NRC	Noise Reduction Coefficient. NRC is a single-number rating of the sound-absorption of a material equal to the arithmetic mean of the sound-absorption coefficients in the 250, 500, 1000, and 2,000 Hz octave frequency bands rounded to the nearest multiple of 0.05. It is a representation of the amount of sound energy absorbed upon striking a particular surface. An NRC of 0 indicates perfect reflection; an NRC of 1 indicates perfect absorption.
RT60	The time it takes reverberant sound to decay by 60 dB once the source has been removed.
Sabin	The unit of sound absorption. One square foot of material absorbing 100% of incident sound has an absorption of 1 Sabin.
SEL	Sound Exposure Level. SEL is a rating, in decibels, of a discrete event, such as an aircraft flyover or train pass by, that compresses the total sound energy into a one-second event.
SPC	Speech Privacy Class. SPC is a method of rating speech privacy in buildings. It is designed to measure the degree of speech privacy provided by a closed room, indicating the degree to which conversations occurring within are kept private from listeners outside the room.
STC	Sound Transmission Class. STC is an integer rating of how well a building partition attenuates airborne sound. It is widely used to rate interior partitions, ceilings/floors, doors, windows and exterior wall configurations. The STC rating is typically used to rate the sound transmission of a specific building element when tested in laboratory conditions where flanking paths around the assembly don't exist. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
Threshold of Hearing	The lowest sound that can be perceived by the human auditory system, generally considered to be 0 dB for persons with perfect hearing.
Threshold of Pain	Approximately 120 dB above the threshold of hearing.
Impulsive	Sound of short duration, usually less than one second, with an abrupt onset and rapid decay.
Simple Tone	Any sound which can be judged as audible as a single pitch or set of single pitches.

Appendix B: Continuous Ambient Noise Measurement Results



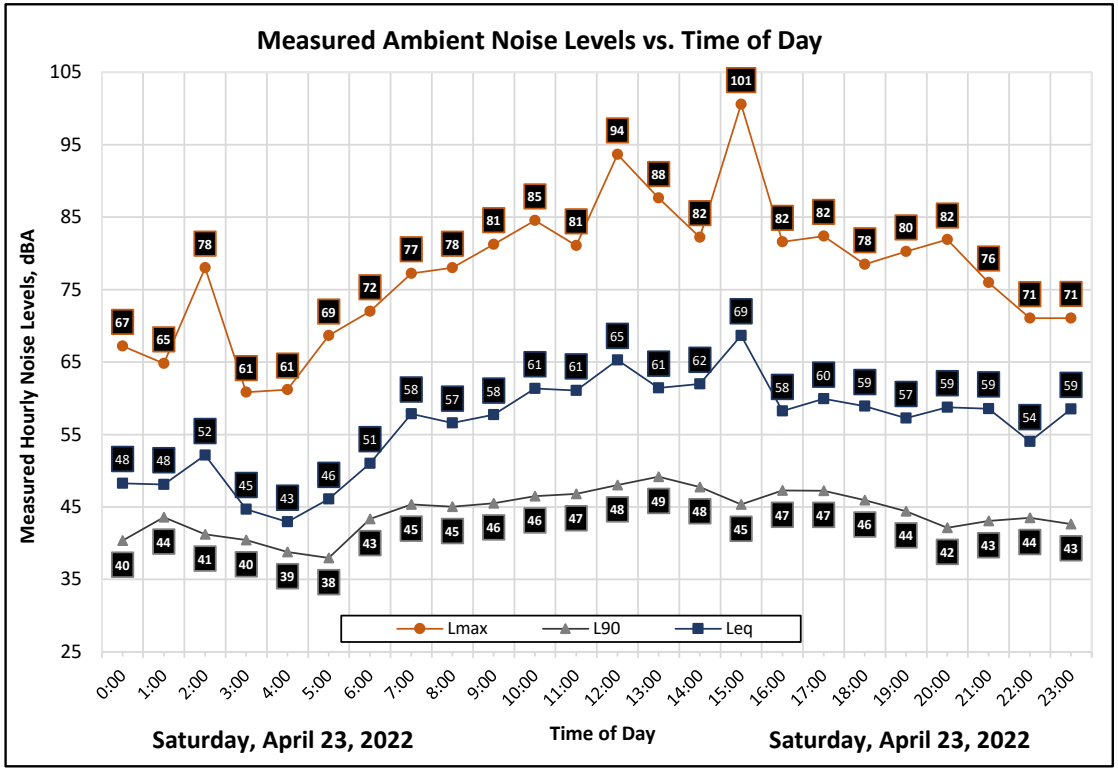


Appendix B1a: Continuous Noise Monitoring Results

Site: LT-1
Project: Westbrook Regional Soccer Complex
Meter: LDL 820-3
Location: Northern Project Boundary
Calibrator: CAL200
Coordinates: 38.7895485°, -121.3872283°

Date	Time	Measured Level, dBA			
		L_{eq}	L_{max}	L_{50}	L_{90}
Saturday, April 23, 2022	0:00	48	67	45	40
Saturday, April 23, 2022	1:00	48	65	46	44
Saturday, April 23, 2022	2:00	52	78	43	41
Saturday, April 23, 2022	3:00	45	61	44	40
Saturday, April 23, 2022	4:00	43	61	41	39
Saturday, April 23, 2022	5:00	46	69	41	38
Saturday, April 23, 2022	6:00	51	72	47	43
Saturday, April 23, 2022	7:00	58	77	51	45
Saturday, April 23, 2022	8:00	57	78	51	45
Saturday, April 23, 2022	9:00	58	81	52	46
Saturday, April 23, 2022	10:00	61	85	53	46
Saturday, April 23, 2022	11:00	61	81	53	47
Saturday, April 23, 2022	12:00	65	94	54	48
Saturday, April 23, 2022	13:00	61	88	55	49
Saturday, April 23, 2022	14:00	62	82	56	48
Saturday, April 23, 2022	15:00	69	101	52	45
Saturday, April 23, 2022	16:00	58	82	53	47
Saturday, April 23, 2022	17:00	60	82	53	47
Saturday, April 23, 2022	18:00	59	78	52	46
Saturday, April 23, 2022	19:00	57	80	52	44
Saturday, April 23, 2022	20:00	59	82	51	42
Saturday, April 23, 2022	21:00	59	76	51	43
Saturday, April 23, 2022	22:00	54	71	48	44
Saturday, April 23, 2022	23:00	59	71	49	43

Statistics	Leq	Lmax	L50	L90
Day Average	62	83	53	46
Night Average	52	68	45	41
Day Low	57	76	51	42
Day High	69	101	56	49
Night Low	43	61	41	38
Night High	59	78	49	44
Ldn	62	Day %		95
CNEL	62	Night %		5



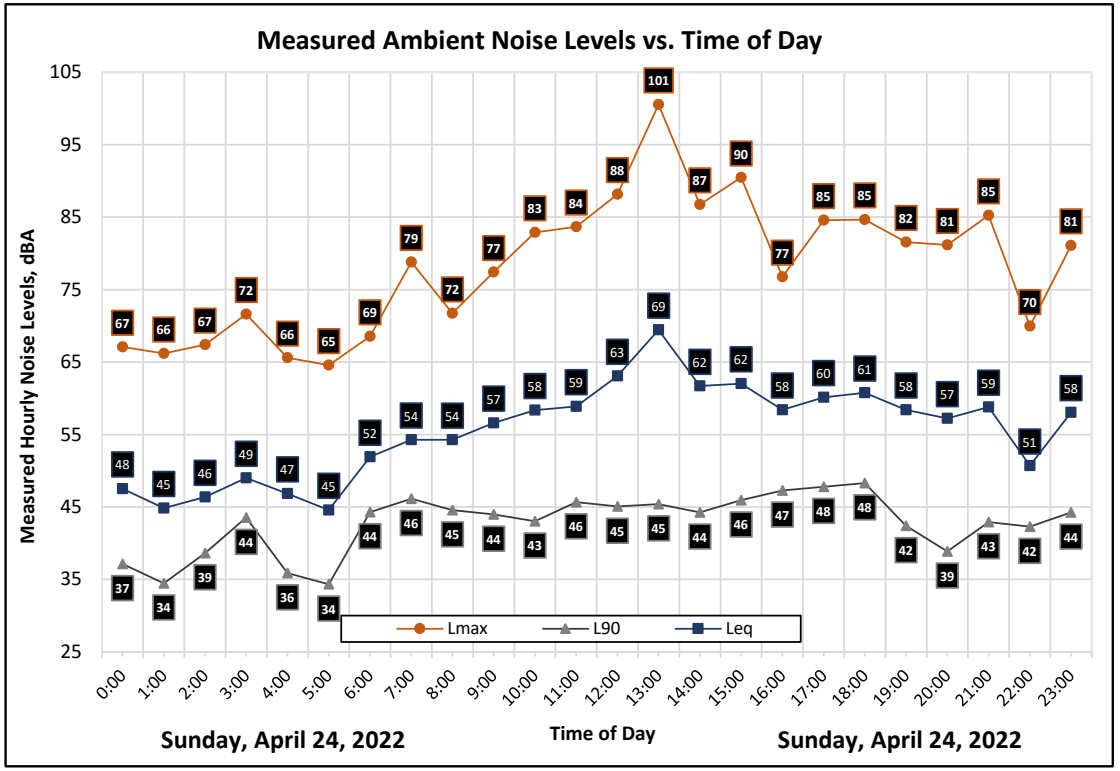


Appendix B1b: Continuous Noise Monitoring Results

Site: LT-1
Project: Westbrook Regional Soccer Complex
Meter: LDL 820-3
Location: Northern Project Boundary
Calibrator: CAL200
Coordinates: 38.7895485°, -121.3872283°

Date	Time	Measured Level, dBA			
		L_{eq}	L_{max}	L_{50}	L_{90}
Sunday, April 24, 2022	0:00	48	67	42	37
Sunday, April 24, 2022	1:00	45	66	38	34
Sunday, April 24, 2022	2:00	46	67	41	39
Sunday, April 24, 2022	3:00	49	72	46	44
Sunday, April 24, 2022	4:00	47	66	43	36
Sunday, April 24, 2022	5:00	45	65	37	34
Sunday, April 24, 2022	6:00	52	69	49	44
Sunday, April 24, 2022	7:00	54	79	49	46
Sunday, April 24, 2022	8:00	54	72	51	45
Sunday, April 24, 2022	9:00	57	77	50	44
Sunday, April 24, 2022	10:00	58	83	51	43
Sunday, April 24, 2022	11:00	59	84	52	46
Sunday, April 24, 2022	12:00	63	88	53	45
Sunday, April 24, 2022	13:00	69	101	52	45
Sunday, April 24, 2022	14:00	62	87	51	44
Sunday, April 24, 2022	15:00	62	90	52	46
Sunday, April 24, 2022	16:00	58	77	53	47
Sunday, April 24, 2022	17:00	60	85	54	48
Sunday, April 24, 2022	18:00	61	85	54	48
Sunday, April 24, 2022	19:00	58	82	51	42
Sunday, April 24, 2022	20:00	57	81	47	39
Sunday, April 24, 2022	21:00	59	85	48	43
Sunday, April 24, 2022	22:00	51	70	45	42
Sunday, April 24, 2022	23:00	58	81	48	44

Statistics	Leq	Lmax	L50	L90
Day Average	62	84	51	45
Night Average	51	69	43	39
Day Low	54	72	47	39
Day High	69	101	54	48
Night Low	45	65	37	34
Night High	58	81	49	44
Ldn	61	Day %		95
CNEL	62	Night %		5



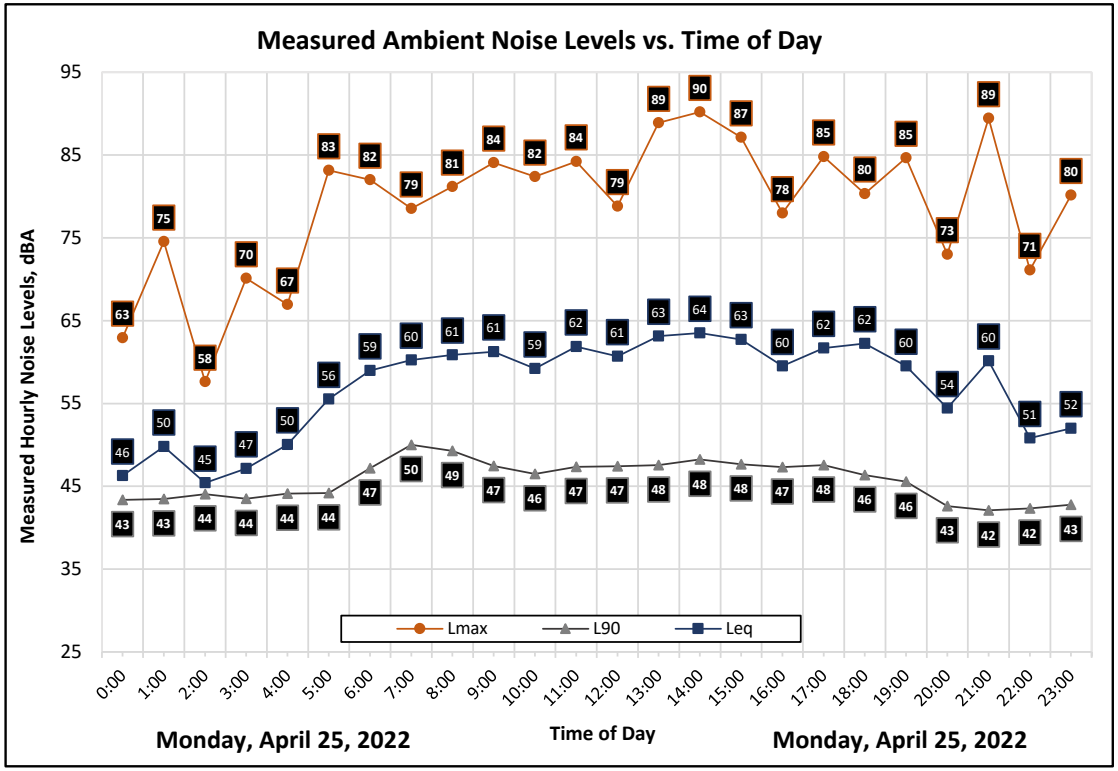


Appendix B1c: Continuous Noise Monitoring Results

Site: LT-1
Project: Westbrook Regional Soccer Complex
Meter: LDL 820-3
Location: Northern Project Boundary
Calibrator: CAL200
Coordinates: 38.7895485°, -121.3872283°

Date	Time	Measured Level, dBA			
		L_{eq}	L_{max}	L_{50}	L_{90}
Monday, April 25, 2022	0:00	46	63	45	43
Monday, April 25, 2022	1:00	50	75	45	43
Monday, April 25, 2022	2:00	45	58	45	44
Monday, April 25, 2022	3:00	47	70	45	44
Monday, April 25, 2022	4:00	50	67	46	44
Monday, April 25, 2022	5:00	56	83	46	44
Monday, April 25, 2022	6:00	59	82	52	47
Monday, April 25, 2022	7:00	60	79	55	50
Monday, April 25, 2022	8:00	61	81	56	49
Monday, April 25, 2022	9:00	61	84	53	47
Monday, April 25, 2022	10:00	59	82	52	46
Monday, April 25, 2022	11:00	62	84	53	47
Monday, April 25, 2022	12:00	61	79	54	47
Monday, April 25, 2022	13:00	63	89	54	48
Monday, April 25, 2022	14:00	64	90	56	48
Monday, April 25, 2022	15:00	63	87	54	48
Monday, April 25, 2022	16:00	60	78	53	47
Monday, April 25, 2022	17:00	62	85	54	48
Monday, April 25, 2022	18:00	62	80	54	46
Monday, April 25, 2022	19:00	60	85	51	46
Monday, April 25, 2022	20:00	54	73	48	43
Monday, April 25, 2022	21:00	60	89	45	42
Monday, April 25, 2022	22:00	51	71	44	42
Monday, April 25, 2022	23:00	52	80	44	43

Statistics	Leq	Lmax	L50	L90
Day Average	61	83	53	47
Night Average	53	72	46	44
Day Low	54	73	45	42
Day High	64	90	56	50
Night Low	45	58	44	42
Night High	59	83	52	47
Ldn	62	Day %		92
CNEL	62	Night %		8



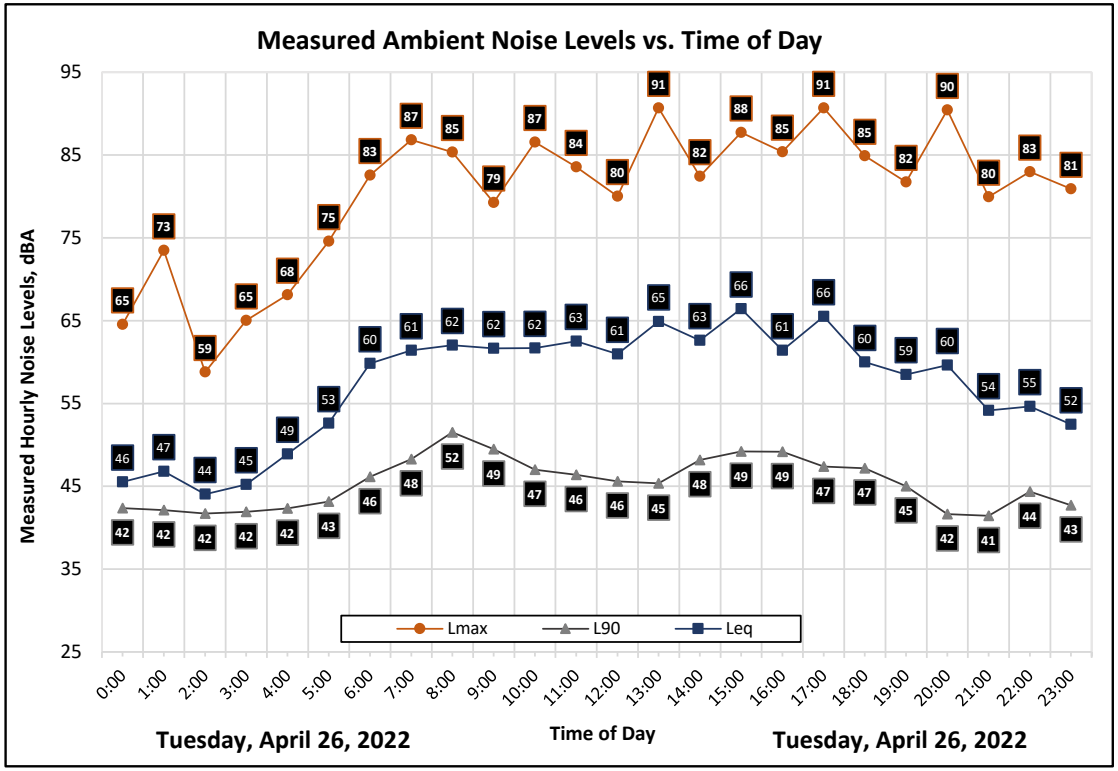


Appendix B1d: Continuous Noise Monitoring Results

Site: LT-1
Project: Westbrook Regional Soccer Complex
Meter: LDL 820-3
Location: Northern Project Boundary
Calibrator: CAL200
Coordinates: 38.7895485°, -121.3872283°

Date	Time	Measured Level, dBA			
		L_{eq}	L_{max}	L_{50}	L_{90}
Tuesday, April 26, 2022	0:00	46	65	44	42
Tuesday, April 26, 2022	1:00	47	73	44	42
Tuesday, April 26, 2022	2:00	44	59	43	42
Tuesday, April 26, 2022	3:00	45	65	43	42
Tuesday, April 26, 2022	4:00	49	68	44	42
Tuesday, April 26, 2022	5:00	53	75	46	43
Tuesday, April 26, 2022	6:00	60	83	50	46
Tuesday, April 26, 2022	7:00	61	87	55	48
Tuesday, April 26, 2022	8:00	62	85	57	52
Tuesday, April 26, 2022	9:00	62	79	55	49
Tuesday, April 26, 2022	10:00	62	87	52	47
Tuesday, April 26, 2022	11:00	63	84	52	46
Tuesday, April 26, 2022	12:00	61	80	52	46
Tuesday, April 26, 2022	13:00	65	91	52	45
Tuesday, April 26, 2022	14:00	63	82	55	48
Tuesday, April 26, 2022	15:00	66	88	57	49
Tuesday, April 26, 2022	16:00	61	85	55	49
Tuesday, April 26, 2022	17:00	66	91	54	47
Tuesday, April 26, 2022	18:00	60	85	53	47
Tuesday, April 26, 2022	19:00	59	82	52	45
Tuesday, April 26, 2022	20:00	60	90	48	42
Tuesday, April 26, 2022	21:00	54	80	46	41
Tuesday, April 26, 2022	22:00	55	83	47	44
Tuesday, April 26, 2022	23:00	52	81	45	43

Statistics	Leq	Lmax	L50	L90
Day Average	62	85	53	47
Night Average	53	72	45	43
Day Low	54	79	46	41
Day High	66	91	57	52
Night Low	44	59	43	42
Night High	60	83	50	46
Ldn	62	Day %		94
CNEL	63	Night %		6



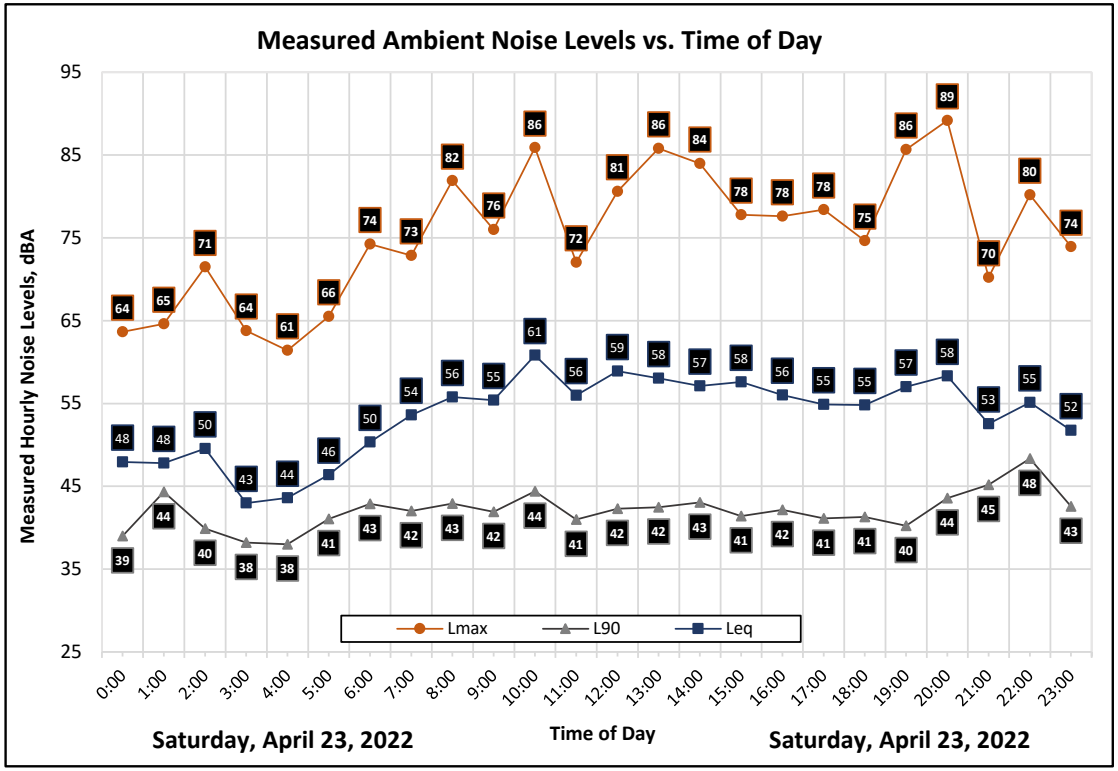


Appendix B2a: Continuous Noise Monitoring Results

Site: LT-2
Project: Westbrook Regional Soccer Complex
Location: South West of the Project Boundary
Coordinates: 38.784781°, -121.387688°
Meter: LDL 820-5
Calibrator: CAL200

Date	Time	Measured Level, dBA			
		L_{eq}	L_{max}	L_{50}	L_{90}
Saturday, April 23, 2022	0:00	48	64	45	39
Saturday, April 23, 2022	1:00	48	65	46	44
Saturday, April 23, 2022	2:00	50	71	42	40
Saturday, April 23, 2022	3:00	43	64	40	38
Saturday, April 23, 2022	4:00	44	61	40	38
Saturday, April 23, 2022	5:00	46	66	43	41
Saturday, April 23, 2022	6:00	50	74	46	43
Saturday, April 23, 2022	7:00	54	73	48	42
Saturday, April 23, 2022	8:00	56	82	50	43
Saturday, April 23, 2022	9:00	55	76	50	42
Saturday, April 23, 2022	10:00	61	86	52	44
Saturday, April 23, 2022	11:00	56	72	50	41
Saturday, April 23, 2022	12:00	59	81	51	42
Saturday, April 23, 2022	13:00	58	86	50	42
Saturday, April 23, 2022	14:00	57	84	51	43
Saturday, April 23, 2022	15:00	58	78	50	41
Saturday, April 23, 2022	16:00	56	78	50	42
Saturday, April 23, 2022	17:00	55	78	50	41
Saturday, April 23, 2022	18:00	55	75	50	41
Saturday, April 23, 2022	19:00	57	86	49	40
Saturday, April 23, 2022	20:00	58	89	49	44
Saturday, April 23, 2022	21:00	53	70	48	45
Saturday, April 23, 2022	22:00	55	80	51	48
Saturday, April 23, 2022	23:00	52	74	48	43

Statistics	Leq	Lmax	L50	L90
Day Average	57	80	50	42
Night Average	48	69	44	42
Day Low	53	70	48	40
Day High	61	89	52	45
Night Low	43	61	40	38
Night High	52	80	51	48
Ldn	57	Day %		93
CNEL	58	Night %		7



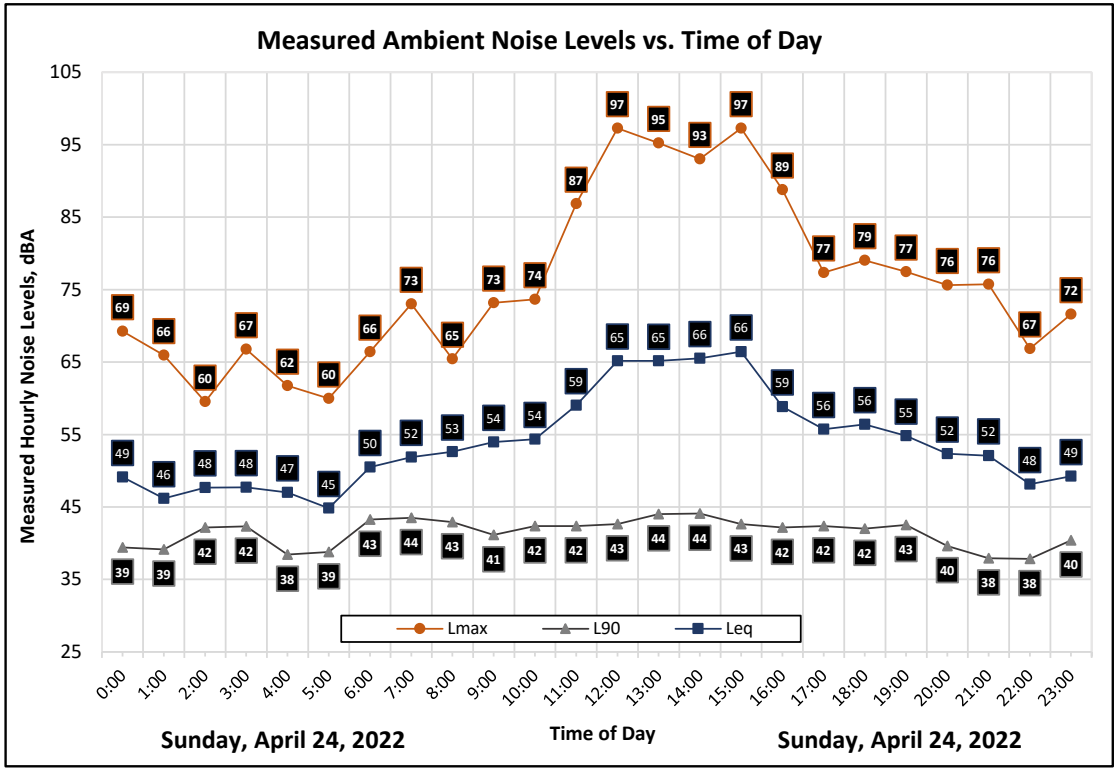


Appendix B2b: Continuous Noise Monitoring Results

Site: LT-2
Project: Westbrook Regional Soccer Complex
Meter: LDL 820-5
Location: South West of the Project Boundary
Calibrator: CAL200
Coordinates: 38.784781°, -121.387688°

Date	Time	Measured Level, dBA			
		L_{eq}	L_{max}	L_{50}	L_{90}
Sunday, April 24, 2022	0:00	49	69	45	39
Sunday, April 24, 2022	1:00	46	66	41	39
Sunday, April 24, 2022	2:00	48	60	45	42
Sunday, April 24, 2022	3:00	48	67	44	42
Sunday, April 24, 2022	4:00	47	62	44	38
Sunday, April 24, 2022	5:00	45	60	42	39
Sunday, April 24, 2022	6:00	50	66	47	43
Sunday, April 24, 2022	7:00	52	73	48	44
Sunday, April 24, 2022	8:00	53	65	49	43
Sunday, April 24, 2022	9:00	54	73	50	41
Sunday, April 24, 2022	10:00	54	74	51	42
Sunday, April 24, 2022	11:00	59	87	51	42
Sunday, April 24, 2022	12:00	65	97	51	43
Sunday, April 24, 2022	13:00	65	95	52	44
Sunday, April 24, 2022	14:00	66	93	51	44
Sunday, April 24, 2022	15:00	66	97	51	43
Sunday, April 24, 2022	16:00	59	89	50	42
Sunday, April 24, 2022	17:00	56	77	50	42
Sunday, April 24, 2022	18:00	56	79	51	42
Sunday, April 24, 2022	19:00	55	77	50	43
Sunday, April 24, 2022	20:00	52	76	48	40
Sunday, April 24, 2022	21:00	52	76	46	38
Sunday, April 24, 2022	22:00	48	67	43	38
Sunday, April 24, 2022	23:00	49	72	42	40

Statistics	Leq	Lmax	L50	L90
Day Average	61	82	50	42
Night Average	48	65	44	40
Day Low	52	65	46	38
Day High	66	97	52	44
Night Low	45	60	41	38
Night High	50	72	47	43
Ldn	60	Day %		97
CNEL	60	Night %		3



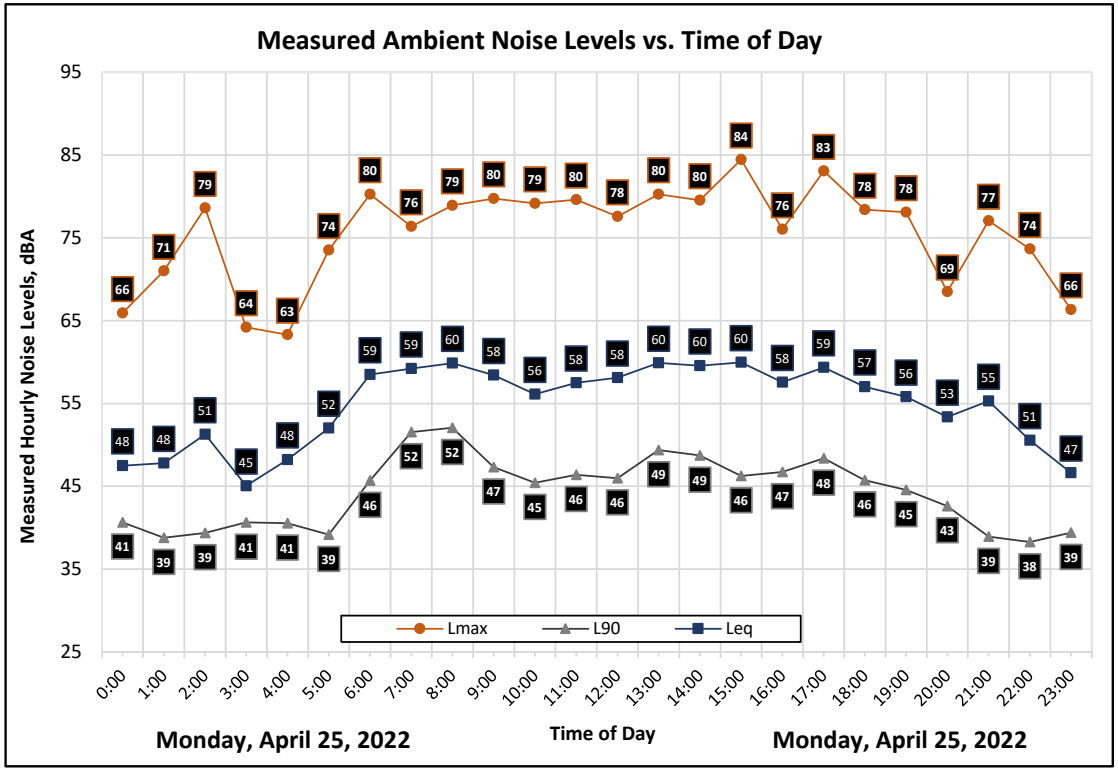


Appendix B2c: Continuous Noise Monitoring Results

Site: LT-2
Project: Westbrook Regional Soccer Complex
Location: South West of the Project Boundary
Coordinates: 38.784781°, -121.387688°
Meter: LDL 820-5
Calibrator: CAL200

Date	Time	Measured Level, dBA			
		L_{eq}	L_{max}	L_{50}	L_{90}
Monday, April 25, 2022	0:00	48	66	42	41
Monday, April 25, 2022	1:00	48	71	41	39
Monday, April 25, 2022	2:00	51	79	41	39
Monday, April 25, 2022	3:00	45	64	42	41
Monday, April 25, 2022	4:00	48	63	43	41
Monday, April 25, 2022	5:00	52	74	46	39
Monday, April 25, 2022	6:00	59	80	52	46
Monday, April 25, 2022	7:00	59	76	56	52
Monday, April 25, 2022	8:00	60	79	58	52
Monday, April 25, 2022	9:00	58	80	53	47
Monday, April 25, 2022	10:00	56	79	52	45
Monday, April 25, 2022	11:00	58	80	53	46
Monday, April 25, 2022	12:00	58	78	53	46
Monday, April 25, 2022	13:00	60	80	56	49
Monday, April 25, 2022	14:00	60	80	55	49
Monday, April 25, 2022	15:00	60	84	54	46
Monday, April 25, 2022	16:00	58	76	54	47
Monday, April 25, 2022	17:00	59	83	55	48
Monday, April 25, 2022	18:00	57	78	53	46
Monday, April 25, 2022	19:00	56	78	51	45
Monday, April 25, 2022	20:00	53	69	50	43
Monday, April 25, 2022	21:00	55	77	47	39
Monday, April 25, 2022	22:00	51	74	43	38
Monday, April 25, 2022	23:00	47	66	42	39

Statistics	Leq	Lmax	L50	L90
Day Average	58	78	53	47
Night Average	52	71	44	40
Day Low	53	69	47	39
Day High	60	84	58	52
Night Low	45	63	41	38
Night High	59	80	52	46
Ldn	60	Day %		89
CNEL	60	Night %		11



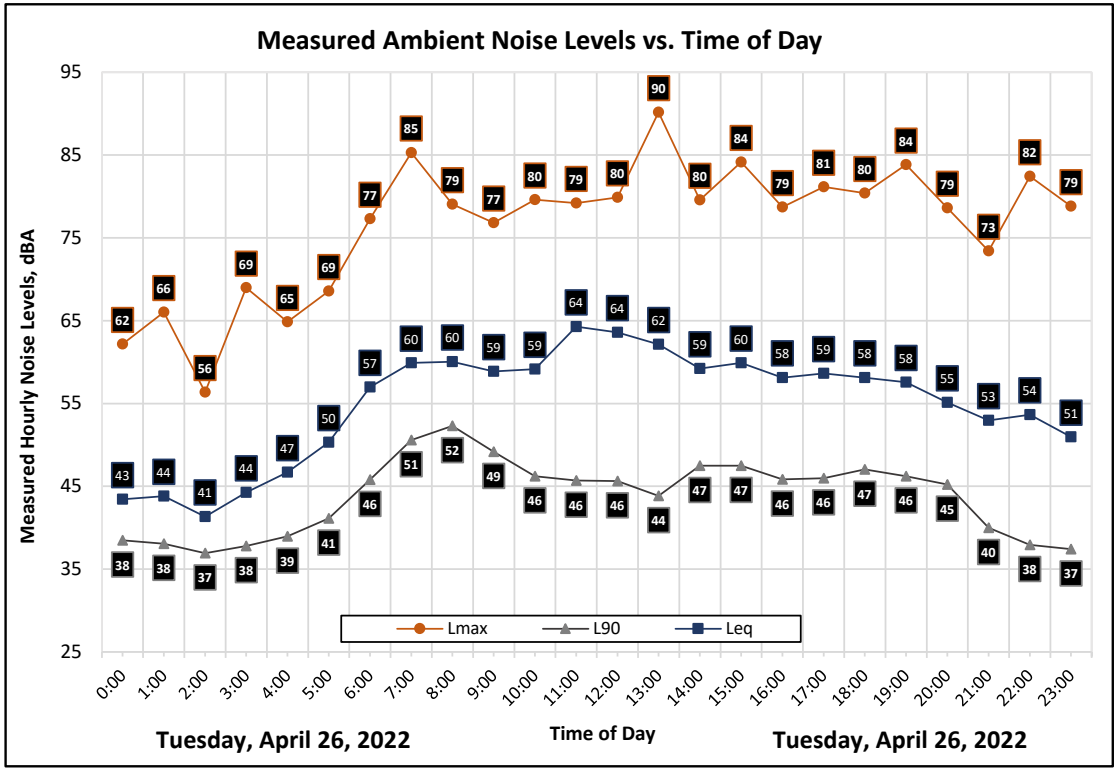


Appendix B2d: Continuous Noise Monitoring Results

Site: LT-2
Project: Westbrook Regional Soccer Complex
Meter: LDL 820-5
Location: South West of the Project Boundary
Calibrator: CAL200
Coordinates: 38.784781°, -121.387688°

Date	Time	Measured Level, dBA			
		L_{eq}	L_{max}	L_{50}	L_{90}
Tuesday, April 26, 2022	0:00	43	62	41	38
Tuesday, April 26, 2022	1:00	44	66	40	38
Tuesday, April 26, 2022	2:00	41	56	40	37
Tuesday, April 26, 2022	3:00	44	69	40	38
Tuesday, April 26, 2022	4:00	47	65	42	39
Tuesday, April 26, 2022	5:00	50	69	45	41
Tuesday, April 26, 2022	6:00	57	77	52	46
Tuesday, April 26, 2022	7:00	60	85	56	51
Tuesday, April 26, 2022	8:00	60	79	58	52
Tuesday, April 26, 2022	9:00	59	77	55	49
Tuesday, April 26, 2022	10:00	59	80	53	46
Tuesday, April 26, 2022	11:00	64	79	54	46
Tuesday, April 26, 2022	12:00	64	80	54	46
Tuesday, April 26, 2022	13:00	62	90	52	44
Tuesday, April 26, 2022	14:00	59	80	55	47
Tuesday, April 26, 2022	15:00	60	84	55	47
Tuesday, April 26, 2022	16:00	58	79	54	46
Tuesday, April 26, 2022	17:00	59	81	53	46
Tuesday, April 26, 2022	18:00	58	80	54	47
Tuesday, April 26, 2022	19:00	58	84	54	46
Tuesday, April 26, 2022	20:00	55	79	53	45
Tuesday, April 26, 2022	21:00	53	73	50	40
Tuesday, April 26, 2022	22:00	54	82	42	38
Tuesday, April 26, 2022	23:00	51	79	40	37

Statistics	Leq	Lmax	L50	L90
Day Average	60	81	54	47
Night Average	50	70	42	39
Day Low	53	73	50	40
Day High	64	90	58	52
Night Low	41	56	40	37
Night High	57	82	52	46
Ldn	60	Day %		95
CNEL	60	Night %		5





ATTACHMENT B

DESIGN PLANS

CONSTRUCTION DRAWINGS FOR

ROSEVILLE SOCCER COMPLEX

2600 WESTBROOK BLVD
ROSEVILLE, CA 95747
VERDE DESIGN, INC. PROJECT NO. 2103800

PROJECT INFORMATION:

TOTAL LANDSCAPE AREA = X SQ. FT.
PROJECT TYPE: NEW PUBLIC PARK

WATER DISTRICT NAME:
CITY OF ROSEVILLE
WATER UTILITY
(916) 774-5750

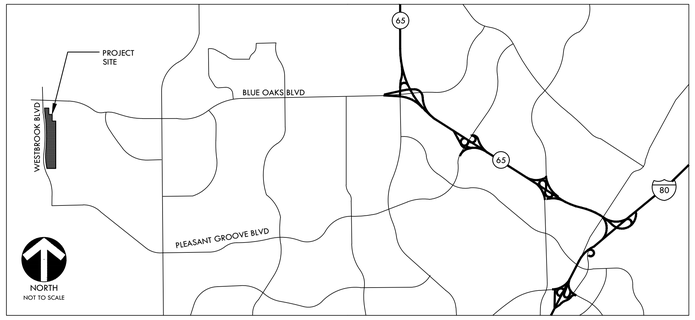
POWER UTILITY PROVIDER:
CITY OF ROSEVILLE
ELECTRIC UTILITY
(916) 797-6937

CWJ #
EN #
BD#

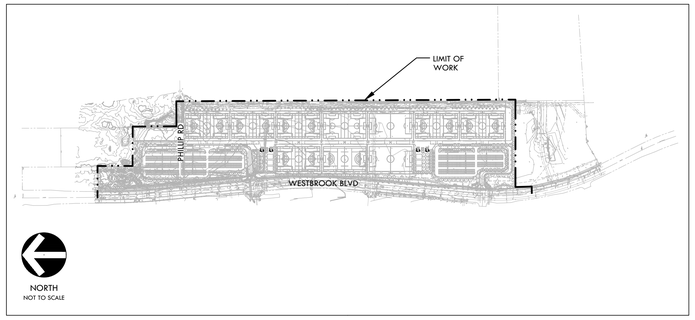
WDID #

ROSEVILLE SOCCER COMPLEX

PROJECT MAP



VICINITY MAP



SITE MAP

PREPARED BY

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
TIM D. HYDE
No. 53260
EXP. 3/31/23
STRUCTURAL
STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

akh
STRUCTURAL ENGINEERS, INC.
1505 MERIDIAN AVE, SUITE B SAN JOSE, CALIFORNIA 95125
PHONE 408.978.1970
www.AKHSE.com

PUBLIC RESTROOM COMPANY
Building Better Places To Go.SM
Ph: 888-888-2060 | Fax: 888-888-1448

Stanton ENGINEERING
PROJECT 20051
11344 Coloma Rd. Suite 445
Gold River, CA 95670
TEL 916.288.6250
www.stantoneng.com

CONTACT INFORMATION

ORGANIZATION	NAME	PHONE
OWNER CITY OF ROSEVILLE	TARA GEE TGEE@ROSEVILLE.CA.US	(916) 774-5253
LANDSCAPE ARCHITECT VERDE DESIGN INC.	MARK BAGINSKI MARK@VERDEDESIGNINC.COM CHRIS SULLIVAN CHRISS@VERDEDESIGNINC.COM	(408) 850-3411 (916) 996-5525
ARCHITECT PUBLIC RESTROOM COMPANY	CHARLES E. KAUFMAN	(888) 888-2060
ELECTRICAL ENGINEER STANTON ENGINEERING	ED DAVID EDD@STANTONENG.COM	(916) 288-6238
STRUCTURAL ENGINEER AKH STRUCTURAL ENGINEERS	TIM HYDE HYDE@AKHSE.COM	(408) 978-1970

SCOPE OF WORK

SCOPE OF WORK TO INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING: SITE DEMOLITION, CLEAR AND GRUB OF UNDEVELOPED LOT. PROPOSED IMPROVEMENTS INCLUDE CONSTRUCTION OF SIX (6) SOCCER FIELDS WITH PERIMETER FENCING, SIX (6) CANTILEVER SHADE STRUCTURES; PLAZA WITH RESTROOM AND CONCESSIONS BUILDINGS AND THREE (3) SOLAR PICNIC SHADE STRUCTURES, PLAY AREA WITH RESTROOM AND SHADE STRUCTURES; NEW PARKING LOT WITH SOLAR SHADE STRUCTURES, NEW HARDSCAPE, LANDSCAPE, SITE UTILITIES, AND PATH OF TRAVEL AND ACCESSIBLE PARKING FOR ACCESSIBILITY REQUIREMENTS. SPORTS LIGHTING FOR SIX (6) SOCCER FIELDS. SPORTS LIGHTING INFRASTRUCTURE, UNDERGROUND UTILITY AND ELECTRICAL INFRASTRUCTURE FOR FUTURE PHASES ALSO TO BE INSTALLED.

BID ALTERNATES

BID ADDITIVE ALTERNATE #1:
CONSTRUCTION OF TWO (2) SOCCER FIELDS, FOUR (4) CANTILEVAR SOLAR SHADE STRUCTURES, SOUTH PARKING LOT WITH SOLAR SHADE STRUCTURES, PLAZA WITH RESTROOM AND CONCESSIONS BUILDINGS, SOLAR PICNIC SHADE STRUCTURES AND RELATED IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, HARDSCAPE, FURNISHINGS, UTILITIES AND ELECTRICAL.

APPLICABLE CODES AND STANDARDS

1. 2019 CBC CHAPTER 35: PROVIDE ALL THE APPLICABLE/ADOPTED STANDARDS. WHERE A PARTICULAR STANDARD IS REFERENCED IN THE CODE BUT DOES NOT APPEAR AS AN ADOPTED STANDARD IT MAY STILL BE USED. APPLY ONLY THE PORTION OF THE STANDARD THAT IS APPLICABLE TO THE CODE SECTION WHERE THE STANDARD IS REFERENCED, NOT THE ENTIRE STANDARD.

   2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
   2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
   (2018 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2016 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
   (2017 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
   (2018 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA PLUMBING CODE (CDC), PART 5, TITLE 24 C.C.R.
   (2018 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
   2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
   (2018 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
   (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2016 CALIFORNIA AMENDMENTS)
   2019 CALIFORNIA "GREEN" BUILDING REQUIREMENTS OR CAL GREEN, PART 11, TITLE 24 C.C.R.
   2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
   2019 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
   2016 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS

   LIST OF FEDERAL CODES AND STANDARDS (IF APPLICABLE)
   AMERICANS WITH DISABILITIES ACT (ADA), TITLE II OR TITLE III
   FOR TITLE II: UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) 28 CFR 35.151(c)
   OR ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)
   FOR TITLE III: ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36) 28 CFR 36.406
   2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN

   NOTE: TITLE II APPLIES TO PROJECTS FUNDED AND/OR USED BY STATE AND LOCAL GOVERNMENT SERVICES. TITLE III COVERS PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES. DEPENDING ON THE USE AND FUNDING, BOTH TITLE MAY APPLY TO THE PROJECT.

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED)	2019 EDITION
NFPA 14	STANDPIPE SYSTEMS	2019 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 20	STATIONARY FIRE PUMPS	2019 EDITION
NFPA 22	WATER TANKS FOR PRIVATE FIRE PROTECTION	2018 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS	2019 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES)	2019 EDITION
NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVES	2019 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2019 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2018 EDITION
UL 300	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ADDESSORIES	2003 EDITION
UL 521	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 1971	SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 EDITION
ICC 300	BLEACHERS, FOLDING AND TELESCOPING SEATING, AND GRANDSTANDS	2017 EDITION
ASME 17.1	ELEVATOR STANDARD	2016 EDITION

   REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS - 2019 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

   ADA STANDARD FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)

2. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
3. ALL EXISTING FIRE EXTINGUISHING SYSTEMS ARE IN COMPLIANCE WITH UL 300, CBC 904.11, CFC 904.11.
4. LATEST EDITION OF THE CITY OF ROSEVILLE DESIGN AND CONSTRUCTION STANDARDS.
5. LATEST EDITION OF THE CITY OF ROSEVILLE PARKS CONSTRUCTION STANDARDS.

SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
C0.0	COVER SHEET
C0.1	PUBLIC IMPROEMENT REQUIREMENT NOTES
L0.1	ACCESSIBILITY PLAN
L0.2	ACCESSIBILITY PLAN
L1.1	EXISTING CONDITIONS PLAN
L1.2	EXISTING CONDITIONS PLAN
L1.3	EXISTING CONDITIONS PLAN
L1.4	EXISTING CONDITIONS PLAN
L1.5	EXISTING CONDITIONS PLAN
L1.6	EXISTING CONDITIONS PLAN
L1.7	EXISTING CONDITIONS PLAN
L1.8	EXISTING CONDITIONS PLAN
L1.9	EXISTING CONDITIONS PLAN
L1.10	EXISTING CONDITIONS PLAN
L1.11	EXISTING CONDITIONS PLAN
L1.12	EXISTING CONDITIONS PLAN
L1.13	EXISTING CONDITIONS PLAN
L1.14	EXISTING CONDITIONS PLAN
L2.1	EROSION AND SEDIMENT CONTROL PLAN
L2.2	EROSION AND SEDIMENT CONTROL PLAN
L2.3	EROSION AND SEDIMENT CONTROL PLAN
L2.4	EROSION AND SEDIMENT CONTROL PLAN
L2.5	EROSION AND SEDIMENT CONTROL PLAN
L2.6	EROSION AND SEDIMENT CONTROL PLAN
L2.7	EROSION AND SEDIMENT CONTROL PLAN
L2.8	EROSION AND SEDIMENT CONTROL PLAN
L2.9	EROSION AND SEDIMENT CONTROL PLAN
L2.10	EROSION AND SEDIMENT CONTROL PLAN
L2.11	EROSION AND SEDIMENT CONTROL PLAN
L2.12	EROSION AND SEDIMENT CONTROL PLAN
L2.13	EROSION AND SEDIMENT CONTROL PLAN
L2.14	EROSION AND SEDIMENT CONTROL PLAN
L3.1	DEMOLITION PLAN
L3.2	DEMOLITION PLAN
L3.3	DEMOLITION PLAN
L3.4	DEMOLITION PLAN
L3.5	DEMOLITION PLAN
L3.6	DEMOLITION PLAN
L3.7	DEMOLITION PLAN
L3.8	DEMOLITION PLAN
L3.9	DEMOLITION PLAN
L3.10	DEMOLITION PLAN
L3.11	DEMOLITION PLAN
L3.12	DEMOLITION PLAN
L3.13	DEMOLITION PLAN
L3.14	DEMOLITION PLAN
L4.1	GRADING PLAN
L4.2	GRADING PLAN
L4.3	GRADING PLAN
L4.4	GRADING PLAN
L4.5	GRADING PLAN
L4.6	GRADING PLAN
L4.7	GRADING PLAN
L4.8	GRADING PLAN
L4.9	GRADING PLAN
L4.10	GRADING PLAN
L4.11	GRADING PLAN
L4.12	GRADING PLAN
L4.13	GRADING PLAN
L4.14	GRADING PLAN
L5.1	DRAINAGE AND UTILITY PLAN
L5.2	DRAINAGE AND UTILITY PLAN
L5.3	DRAINAGE AND UTILITY PLAN
L5.4	DRAINAGE AND UTILITY PLAN
L5.5	DRAINAGE AND UTILITY PLAN
L5.6	DRAINAGE AND UTILITY PLAN
L5.7	DRAINAGE AND UTILITY PLAN
L5.8	DRAINAGE AND UTILITY PLAN
L5.9	DRAINAGE AND UTILITY PLAN
L5.10	DRAINAGE AND UTILITY PLAN
L5.11	DRAINAGE AND UTILITY PLAN
L5.12	DRAINAGE AND UTILITY PLAN
L5.13	DRAINAGE AND UTILITY PLAN
L5.14	DRAINAGE AND UTILITY PLAN
L6.1	LAYOUT PLAN
L6.2	LAYOUT PLAN
L6.3	LAYOUT PLAN
L6.4	LAYOUT PLAN
L6.5	LAYOUT PLAN
L6.6	LAYOUT PLAN
L6.7	LAYOUT PLAN
L6.8	LAYOUT PLAN
L6.9	LAYOUT PLAN
L6.10	LAYOUT PLAN
L6.11	LAYOUT PLAN
L6.12	LAYOUT PLAN
L6.13	LAYOUT PLAN
L6.14	LAYOUT PLAN
L7.1	MATERIAL AND DETAIL REFERENCE PLAN
L7.2	MATERIAL AND DETAIL REFERENCE PLAN
L7.3	MATERIAL AND DETAIL REFERENCE PLAN
L7.4	MATERIAL AND DETAIL REFERENCE PLAN
L7.5	MATERIAL AND DETAIL REFERENCE PLAN
L7.6	MATERIAL AND DETAIL REFERENCE PLAN
L7.7	MATERIAL AND DETAIL REFERENCE PLAN
L7.8	MATERIAL AND DETAIL REFERENCE PLAN
L7.9	MATERIAL AND DETAIL REFERENCE PLAN
L7.10	MATERIAL AND DETAIL REFERENCE PLAN
L7.11	MATERIAL AND DETAIL REFERENCE PLAN
L7.12	MATERIAL AND DETAIL REFERENCE PLAN
L7.13	MATERIAL AND DETAIL REFERENCE PLAN
L7.14	MATERIAL AND DETAIL REFERENCE PLAN
L8.1	IRRIGATION PLAN
L8.2	IRRIGATION PLAN
L8.3	IRRIGATION PLAN
L8.4	IRRIGATION PLAN
L8.5	IRRIGATION PLAN
L8.6	IRRIGATION PLAN
L8.7	IRRIGATION PLAN
L8.8	IRRIGATION PLAN
L8.9	IRRIGATION PLAN
L8.10	IRRIGATION PLAN
L8.11	IRRIGATION PLAN
L8.12	IRRIGATION PLAN
L8.13	IRRIGATION PLAN
L8.14	IRRIGATION PLAN
L8.15	IRRIGATION PLAN
L8.16	IRRIGATION PLAN
L9.1	PLANTING PLAN
L9.2	PLANTING PLAN
L9.3	PLANTING PLAN
L9.4	PLANTING PLAN
L9.5	PLANTING PLAN
L9.6	PLANTING PLAN
L9.7	PLANTING PLAN
L9.8	PLANTING PLAN
L9.9	PLANTING PLAN
L9.10	PLANTING PLAN
L9.11	PLANTING PLAN
L9.12	PLANTING PLAN
L9.13	PLANTING PLAN
L9.14	PLANTING PLAN
LD1.1	DRAINAGE AND UTILITY DETAILS
LD1.2	DRAINAGE AND UTILITY DETAILS
LD2.1	CONSTRUCTION DETAILS HARDSCAPE
LD2.2	CONSTRUCTION DETAILS SITE FURNISHINGS
LD3.1	ACCESSIBLE PARKING DETAILS
LD4.1	FENCING DETAILS
LD4.2	FENCING DETAILS
LD5.1	ATHLETIC DTAILS
LD5.2	PLAY EQUIPMENT
LD6.1	IRRIGATION AND PLANTING DETAILS
LD6.2	IRRIGATION AND PLANTING DETAILS
E0.1	ELECTRICAL COVER SHEET
E0.2	ONE-LINE DIAGRAM & LOAD CALCULATIONS
E0.3	ELECTRICAL BUILDING PLAN AND DETAILS
E1.0	OVERALL SITE PLAN - ELECTRICAL

LANDSCAPE ARCHITECT

I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPING ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE.

LANDSCAPE ARCHITECT

DATE

CITY OF ROSEVILLE

CITY ENGINEER

DATE

CITY OF ROSEVILLE APPROVAL

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PLOT DATE: 04-29-22 PLOTTED BY: stotion49

30% SUBMITTAL - 04/29/2022

PUBLIC IMPROVEMENT REQUIREMENTS

GRADING:

1. GRADING SHALL CONFORM TO APPENDIX CHAPTER 33 UBC, LATEST EDITION, AND TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING REPORT TITLED GEOTECHNICAL ENGINEERING REPORT GIBSON PARK. REFER TO ENGINEERING DIVISION FILE #308._____ FOR SOILS REPORT.

2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS SPECIFIED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS PROJECT OR AS DETERMINED BY THE CITY INSPECTOR. THE SWPPP IS CONSIDERED A DYNAMIC DOCUMENT AND WILL CHANGE AS CONDITIONS WARRANT. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED AS SHOWN ON THE PRE-DEVELOPED SWPPP PLAN. REFER TO STORM WATER POLLUTION PREVENTION PLAN _____.

3. LOTS SHALL BE GRADED WITH A CONSTANT SLOPE ALONG THE FRONTAGE OF THE RIGHT-OF-WAY, FROM BUILDING SETBACK LINE TO BACK OF SIDEWALK. ALL TEMPORARY AND PERMANENT SLOPES STEEPER THAN 4:1 ALONG THIS FRONTAGE SHALL HAVE EROSION NETTING INSTALLED.

4. ALL REAR LOT CORNER ELEVATIONS SHALL BE EQUAL TO OR GREATER THAN THE HIGHEST ADJACENT PAD GRADE UNLESS SPECIFICALLY SHOWN ON THESE PLANS AND APPROVED BY ENGINEERING DIVISION.

5. NON-POTABLE 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.

6. TARPAULINS OR OTHER EFFECTIVE COVERS SHALL BE USED ON ALL STOCKPILED EARTH MATERIAL AND ON HAUL TRUCKS TO MINIMIZE DUST.

7. THE CITY SHALL HAVE THE AUTHORITY TO STOP ALL GRADING OPERATIONS, IF, IN OPINION OF CITY STAFF, INADEQUATE DUST CONTROL MEASURES ARE BEING PRACTICED OR EXCESSIVE WIND CONDITIONS CONTRIBUTE TO FUGITIVE DUST EMISSIONS.

8. ADJACENT STREET FRONTAGES SHALL BE SWEPT AT LEAST ONCE A DAY TO REMOVE SILT AND OTHER DIRT WHICH IS EVIDENT FROM CONSTRUCTION ACTIVITIES. REFER TO SCHEDULES WITHIN SWPPP.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING CONSTRUCTION VEHICLES LEAVING THE SITE ON A DAILY BASIS TO PREVENT DUST, SILT AND DIRT FROM BEING RELEASED OR TRACKED OFFSITE. REFER TO SWPPP FOR SPECIFIC REQUIREMENTS.

10. CONSTRUCTION SHALL STOP IF CULTURAL RESOURCES ARE SUSPECTED. IT IS POSSIBLE THAT PREVIOUS ACTIVITIES HAVE OBSCURED SURFACE EVIDENCE OF CULTURAL RESOURCES. IF SIGNS OF AN ARCHEOLOGICAL SITE, SUCH AS ANY UNUSUAL AMOUNTS OF STONE, BONE, OR SHELL, ARE UNCOVERED DURING GRADING OR OTHER CONSTRUCTION ACTIVITIES, WORK SHALL BE HALTED WITHIN 100 FEET OF THE FIND AND THE ROSEVILLE COMMUNITY DEVELOPMENT DEPARTMENT SHALL BE NOTIFIED. A QUALIFIED ARCHEOLOGIST SHALL BE CONSULTED FOR AN ON-SITE EVALUATION. THE ARCHEOLOGIST MAY REQUIRE ADDITIONAL MITIGATION.

11. SHOULD GRADING OPERATIONS UNCOVER HAZARDOUS MATERIALS, OR WHAT APPEARS TO BE HAZARDOUS MATERIALS, THE FIRE DEPARTMENT SHALL BE CONTACTED IMMEDIATELY AT (916) 774-5820. THE AREA, WHICH CONTAINS THE HAZARDOUS MATERIALS, SHALL BE MARKED OFF UNTIL AN INVESTIGATION BY A MEMBER OF THE FIRE DEPARTMENT IS CONDUCTED.

12. GRADES SHOWN OUTSIDE OF THE PUBLIC RIGHT OF WAY WITHIN THE APPROVED GRADING PLAN ARE SUBJECT TO FURTHER REVIEW AND MODIFICATION BY THE BUILDING DIVISION FOR COMPLIANCE WITH THE UNIFORM BUILDING CODE AND STATE OF CALIFORNIA TITLE 24 HANDICAP ACCESSIBILITY REQUIREMENTS.

13. THE CONTRACTOR/DEVELOPER IS EXPECTED TO COMPLY WITH THE FUGITIVE DUST CONTROL REQUIREMENTS FROM THE PLACER COUNTY AIR POLLUTION CONTROL DISTRICT: WWW.PLACER.CA.GOV/APCD

14. CONTAMINATED SOIL - DEVELOPER AGREES TO PROPERLY ADHERE TO ALL THEN CURRENT STATE AND FEDERAL REQUIREMENTS WHEN ANY EVIDENCE OF TOXIC, HAZARDOUS OR CONTAMINATED SOILS ARE ENCOUNTERED DURING ANY AND ALL EXCAVATION OR GRADING OPERATIONS, AND TO INDEMNIFY, DEFEND AND HOLD HARMLESS THE CITY OR ROSEVILLE, ITS OFFICERS, AGENTS AND EMPLOYEES, FROM ANY AND ALL LIABILITY, COSTS, CLAIMS, FEES, FINES, PENALTIES AND CLAIMS OF OR DAMAGE OF ANY TYPE WHATSOEVER. EXTRA COSTS FOR REMEDIATION AND/OR REMOVAL OF SOIL SHALL BE BOURN SOLELY BY THE DEVELOPER. THE PARTIES INTEND THAT THIS PROVISION BE BROADLY CONSTRUED.

AIR QUALITY:

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 (VOC'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://NI/WW.LEGINFO.CA.GOV/CGI-BINIDISPLAYCODE?SECTION-HSC&GROUP =39001-40000&FILE=39010-39060

EROSION / SEDIMENT CONTROL:

1. THE STATE'S GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (WQD 99-080-DWQ) REQUIRES THE PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR SITES WITH SOIL DISTURBANCES GREATER THAN OR EQUAL TO ONE ACRE, OR FROM SITES SMALLER THAN ONE ACRE IF THE CONSTRUCTION ACTIVITY IS PART OF A LARGER PLAN OF DEVELOPMENT OR SALE THAT DISTURBS ONE ACRE OR MORE. CONSTRUCTION ACTIVITY SHALL NOT COMMENCE, NOR A PRE-CONSTRUCTION MEETING PERMITTED TO BE SCHEDULED, PRIOR TO THE SWPPP BEING ACCEPTED BY THE CITY. FOR MORE INFORMATION SEE; HTTP://WWW.ROSEVILLE.CA.US/EU/STORMWATER_MANAGEMENT

2. THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS INCORPORATED BY REFERENCE INTO THIS SET OF PLANS (REFER TO GRADING NOTE #2, THIS SHEET). THE SWPPP IS CONSIDERED A DYNAMIC DOCUMENT AND WILL CHANGE AS CONDITIONS WARRANT. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED AS SHOWN ON THESE PLANS.

3. A COPY OF THE SWPPP SHALL BE KEPT AT THE PROJECT SITE AT ALL TIMES.

4. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS SPECIFIED IN THE SWPPP AND/OR AS DIRECTED BY CITY INSPECTOR.

5. 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 15 AND APRIL 15 EXCEPT AS APPROVED BY THE DEPARTMENT OF FISH AND GAME.

6. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN ACCORDANCE WITH THE SWPPP.

7. THE CONTRACTOR SHALL ESTABLISH A SPECIFIC SITE WITHIN THE DEVELOPMENT FOR MAINTENANCE AND STORAGE OF EQUIPMENT OR ANY OTHER ACTIVITY THAT MAY ADVERSELY CONTRIBUTE TO THE WATER QUALITY OF THE RUNOFF IN ACCORDANCE WITH THE SWPPP.

8.

CITY OF ROSEVILLE 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. A.C. SURFACE SHALL BE CUT TO A NEAT, STRAIGHT LINE PARALLEL WITH THE STREET CENTERLINE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIAL SHALL BE GRADED, RE-COMPACTED, AND RESEALED PRIOR TO PAVING.

8. ANY EXISTING CONCRETE SURFACE TO BE REMOVED SHALL BE SAW CUT TO A NEAT, STRAIGHT LINE.

9. 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.

10. 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 EXISTING 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.

11. DRAIN INLETS NOT WITHIN A PAVED AREA SHALL HAVE A 12" WIDE COLLAR OF 6" THICK P.C.C. OR 2" THICK A.C. DRAIN INLETS INSTALLED IN MULCHED PLANTER AREAS SHALL HAVE A 12" WIDE COLLAR OF 2" TO 6" COBBLE PLACED OVER FILTER FABRIC.

12. 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.

13. 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.

14. THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION MEETING ONE-WEEK PRIOR TO STARTING WORK. MEMBERS OF THE CITY OF ROSEVILLE DEVELOPMENT SERVICES DEPARTMENT, ENVIRONMENTAL UTILITIES DEPARTMENT AND ALL OTHER UTILITY REPRESENTATIVES SHALL BE NOTIFIED BY THE CONTRACTOR AS TO THE DATE AND LOCATION OF THE MEETING.

15. 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.

16. ALL PAINTED TRAFFIC STRIPES, ARROWS, AND PAVEMENT MARKINGS SHALL BE CONSTRUCTED WITH THERMOPLASTIC MATERIAL TO THE SPECIFICATIONS SET FORTH IN CHAPTER 3 OF THE CALIFORNIA MUTCD LATEST EDITION. NON-REFLECTIVE PAVEMENT MARKERS SHALL CONSIST OF CERAMIC MARKERS ONLY CONFORMING TO CHAPTER 3 OF THE CALIFORNIA MUTCD LATEST EDITION.

17. 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.

18. WHERE COMBINATIONS OF SIDEWALK OR CURB AND GUTTER ARE PLACED CONTIGUOUS TO EXISTING, ALL ADJOINING EXISTING CONCRETE VERTICAL FACES SHALL BE DOWELED. ALL ABUTTING SIDEWALK ENDS SHALL BE DOWELED MID-SECTION VERTICALLY WITH TWO DOWELS FOR FOUR THROUGH SIX-FOOT WIDE SIDEWALK AND THREE DOWELS FOR WIDER SIDEWALK. ABUTTING CURB AND GUTTER ENDS SHALL BE DOWELED TWICE, 18 INCHES APART AT GUTTER PAN MID-SECTION. DOWEL CONNECTIONS OF LONGITUDINAL RUNS OF SIDEWALK TO BACK OF CURB SHALL BE THREE FEET ON CENTER. ALL DOWELS SHALL BE 16 INCHES LONG, GRADE 60; #4 REBAR PENETRATING FOUR INCHES. THE DOWEL HOLE SHALL BE 5/8-INCH DIAMETER AT A SLIGHT HORIZONTAL ANGLE FROM PERPENDICULAR. THE PENETRATING PORTION OF THE DOWEL AND THE ENTIRE (CLEANED) VERTICAL SURFACE OF THE ADJOINING, EXISTING CONCRETE SHALL BE THOROUGHLY COATED WITH STATE STANDARD TWO-PART EPOXY.

19. WHEN SAWCUTTING WITHIN THE STREET FOR TRENCHING OR OTHER PURPOSES, CONTRACTOR SHALL GRIND 1½" OF PAVEMENT BETWEEN THE LANE LINES (FROM LANE STRIPE TO LANE STRIPE) UPON COMPLETION OF THE SAWCUTTING AND OR TRENCHING WORK. WHERE THE SAWCUTTING OCCURS BETWEEN THE CURB AND GUTTER AND NEAREST LANE STRIPE (INCLUDING BIKE LANES), THE SAME 1 ½" GRIND SHALL BE REQUIRED. CONTRACTOR TO PLACE A PETROMAT FABRIC OR APPROVED EQUAL BY THE CITY OF ROSEVILLE AND OVERLAY FROM LANE STRIPE TO LANE STRIPE, OR CURB TO LANE STRIPE AND RESTRIPE OR REPLACE ANY DELINEATORS REMOVED DURING THE GRIND.

20. 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.

21. FOR RESIDENTIAL SUBDIVISIONS, UNLESS OTHERWISE APPROVED BY DEVELOPMENT SERVICES ENGINEERING, THE FINAL GRADING OF THE PROJECT SITE SHALL BE CONSTRUCTED TO ACCOMMODATE A MAXIMUM DRIVEWAY SLOPE OF 14% FOR EACH RESIDENTIAL LOT, AS MEASURED FROM THE BACK OF THE SIDEWALK TO THE GARAGE (20-FT SET BACK). IT WILL REMAIN THE RESPONSIBILITY OF THE BUILDERS/DEVELOPER TO DESIGN A HOUSE THAT PROVIDES SUITABLE ACCESS TO THE PARCEL.

22. THE CONTRACTOR SHALL PLACE FILTER FABRIC BETWEEN THE INITIAL BEDDING AND BACKFILL AND THE TRENCH BACKFILL FOR SANITARY SEWERS DEPTH GREATER THAN 15 FEET MEASURED TO THE PIPE INVERT.

GENERAL FIRE DEPARTMENT NOTES

1. AN APPROVED PROJECT SIGN SHALL BE PLACED AT VEHICLE ACCESS POINTS INTO THE PROJECT DURING CONSTRUCTION TO ASSIST EMERGENCY RESPONDERS. THE SIGN SHALL IDENTIFY THE ADDRESS, AS APPROVED BY THE CITY OF ROSEVILLE. SUCH SIGNS SHALL BE CLEARLY VISIBLE AND LEGIBLE FROM THE STREET FRONTING THE PROJECT.

2. PRIOR TO COMBUSTIBLE MATERIALS BEING BROUGHT TO THE SITE, FIRE APPARATUS ACCESS ROADS SHALL BE PROVIDED TO WITHIN 150 FEET OF ALL STRUCTURES AND COMBUSTIBLE STORAGE PILES. FIRE APPARATUS ACCESS ROADS SHALL BE FULLY PAVED AND SHALL BE DESIGNED TO SUPPORT THE IMPOSED WEIGHT OF A FIRE APPARATUS (34 TONS GVW), UNLESS PRIOR APPROVAL IS OBTAINED FROM THE FIRE DEPARTMENT FOR TEMPORARY ACCESS ROADS. ACCESS ROADS SHALL BE PROVIDED WITH A MINIMUM 20-FOOT ROADWAY WIDTH AND 13 FOOT 6 INCH VERTICAL CLEARANCE.

3. 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.

4. CONSTRUCTION MATERIAL AND VEHICLES SHALL NOT OBSTRUCT FIRE APPARATUS ACCESS TO FIRE APPARATUS ROADS, FIRE HYDRANTS OR THE BUILDING.

5. 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.

6. PROVIDE AND MAINTAIN A MINIMUM 3-FOOT CLEAR SPACE AROUND FIRE PROTECTION EQUIPMENT.

7. THE BURNING OF COMBUSTIBLE CONSTRUCTION MATERIALS AND TRASH IS PROHIBITED.

8. ASPHALT AND TAR KETTLES SHALL NOT BE LOCATED WITHIN 20 FEET OF ANY COMBUSTIBLE MATERIAL, COMBUSTIBLE BUILDING SURFACE OR BUILDING OPENING. AN ATTENDANT SHALL BE WITHIN 100 FEET OF A KETTLE WHEN THE HEAT SOURCE IS OPERATING. A MINIMUM OF ONE (1) 20B:C PORTABLE FIRE EXTINGUISHER SHALL BE LOCATED WITHIN 30 FEET OF THE KETTLE, AND ON THE ROOF DURING ASPHALT COATING OPERATIONS.

9. 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.

10. 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.

11. IF SITE SURVEY OF 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.

12. FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CHAPTER 33 OF THE CALIFORNIA FIRE CODE.

13. ADEQUATE RADIO COVERAGE SHALL BE PROVIDED WITHIN BUILDINGS FOR PUBLIC SAFETY AGENCIES, AS REQUIRED BY FIRE CODE.

14. PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN OCCUPANCIES AND LOCATIONS AS SET FORTH IN THE CALIFORNIA FIRE CODE AND AS REQUIRED BY THE CHIEF. PROVIDE A MINIMUM OF ONE (1) PORTABLE FIRE EXTINGUISHER WITHIN EACH TENANT SPACE. THE MAXIMUM TRAVEL DISTANCE TO THE FIRE EXTINGUISHER SHALL NOT EXCEED 75-FEET. THE MINIMUM RATING CLASSIFICATION FOR THE EXTINGUISHER SHALL BE NOT LESS THAN 2A-10B:C. THE MAXIMUM TRAVEL DISTANCE FROM ANY POINT IN A LIGHT HAZARD AREA OF CLASS A HAZARDS SHALL NOT BE MORE THAN 75 FEET FROM A CLASS 2A-10B:C. FIRE EXTINGUISHER AND ONE EXTINGUISHER SHALL BE PROVIDED FOR EACH 6,000 SQUARE FEET. THE MAXIMUM TRAVEL DISTANCE FROM ANY POINT IN AN ORDINARY HAZARD OF CLASS A HAZARDS AREA SHALL NOT BE MORE THAN 75 FEET AND ONE EXTINGUISHER SHALL BE PROVIDED FOR EACH 3,000 SQUARE FEET. THE MAXIMUM TRAVEL DISTANCE TO CLASS B EXTINGUISHERS IS EITHER 30 FEET OR 50 FEET DEPENDING UPON THE SIZE OF THE EXTINGUISHER AND THE CLASSIFICATION OF THE HAZARD. REFER TO UFC STANDARD NO. 10-1 FOR COMPLETE REQUIREMENTS. ALL PORTABLE FIRE EXTINGUISHERS SHALL HAVE A SERVICE TAG AFFIXED TO THEM SHOWING THAT THE EXTINGUISHER HAS BEEN SERVICED BY A CALIFORNIA STATE LICENSED FIRE EXTINGUISHER CONCERN. ALL FIRE EXTINGUISHERS SHALL BE ATTACHED TO A BRACKET OR WITHIN AN APPROVED CABINET. MAXIMUM DISTANCE FROM THE FLOOR SHALL NOT EXCEED 54-INCHES. SIGNAGE SHALL BE POSTED ABOVE THE EXTINGUISHER AND SHALL READ FIRE EXTINGUISHER.

15. THE REQUIRED MINIMUM FIRE FLOW FOR THE PROTECTION OF THE PROPOSED PROJECT IS ___ GALLONS PER MINUTE WITH 20 POUNDS PER SQUARE INCH RESIDUAL WATER PRESSURE REMAINING IN THE SYSTEM. A CHANGE IN ANY OF THE CONDITIONS MAY INCREASE THE REQUIRED FIRE FLOW.

16. ALL UNDERGROUND FIRE LINE SHALL BE HYDRAULICALLY PRESSURED AT 200 PSI FOR TWO-HOURS PER THE NFPA STANDARD FOR UNDERGROUND FIRE WATER LINE. AN INSPECTION SHALL BE REQUIRED TO WITNESS THE TEST WITH A SUBSEQUENT INSPECTION AFTER THE TWO-HOUR DURATION HAS EXPIRED.

17. 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.

18. SECTION 10.6.2 OF NFPA 24 HAS BEEN AMENDED NOT TO ALLOW MECHANICAL JOINTS UNDER BUILDINGS. SEE CHAPTER 80 OF THE CALIFORNIA FIRE CODE, PAGE 519. PROVIDE DETAIL OF THE PROPOSED RISER AND UNDERGROUND DETAIL TO THE PAD.

19. CIVIL IMPROVEMENT PLANS SHALL BE RESUBMITTED IF IT HAS BEEN DETERMINED BY THE APPLICANT THAT AN ON-SITE FIRE PUMP WILL BE REQUIRED AS THE RESULT OF SUPPLYING 100 PSI RESIDUAL PRESSURE AT THE STANDPIPE ROOF OUTLET ACCORDANCE WITH NFPA 14, STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS.

20. THE SUBMITTED PRIVATE UNDERGROUND FIRE LINE SHALL BE REVIEWED AND APPROVED BY THE ENVIRONMENTAL UTILITIES DEPARTMENT (EUD) IN CONJUNCTION WITH THE FIRE DEPARTMENT (RFD) PRIOR TO REQUESTING FOR THE REQUIRED INSPECTION FROM THE RFD. THE FIRE SPRINKLER PLANS WILL NOT BE APPROVED BY THE RFD UNTIL THE UNDERGROUND SERVICE LATERAL HAS BEEN INSPECTED AND ACCEPTED BY THE RFD.

21. ALL PROPOSED BURIED BOLTS SHALL BE COATED WITH A LISTED PRODUCT SUCH AS CHRISTY'S HD-50.

22. ACCORDING TO NFPA 13, 6.3.1.1.1, THE UNDERGROUND FIRE LINE CANNOT EXTEND INTO THE BUILDING FURTHER THAN 24 INCHES.

23. AN 18 AWG MINIMUM GAUGE TRACER WIRE SHALL BE INSTALLED ALONG ALL NON-METALLIC UNDERGROUND PIPING IN ACCORDANCE WITH SECTION 604 OF THE CALIFORNIA PLUMBING CODE. NOTATIONS SHALL BE MADE ON THE RESUBMITTAL.

24. FIRE DEPARTMENT CONNECTION(S) SHALL BE WITHIN 2-FEET OF BACK OF CURB OR BACK OF WALKWAY, AND SHALL REMAIN UNOBSTRUCTED AT ALL TIMES.

25. ALL FIRE DEPARTMENT CONNECTIONS SHALL BE LABELED WITH THE APPROPRIATE ADDRESS.

26. MECHANICAL JOINTS SHALL BE INSTALLED AT AREAS NOTED PER THE EBBA THRUST RESTRAINT DESIGN PROGRAM SPECIFICATIONS.

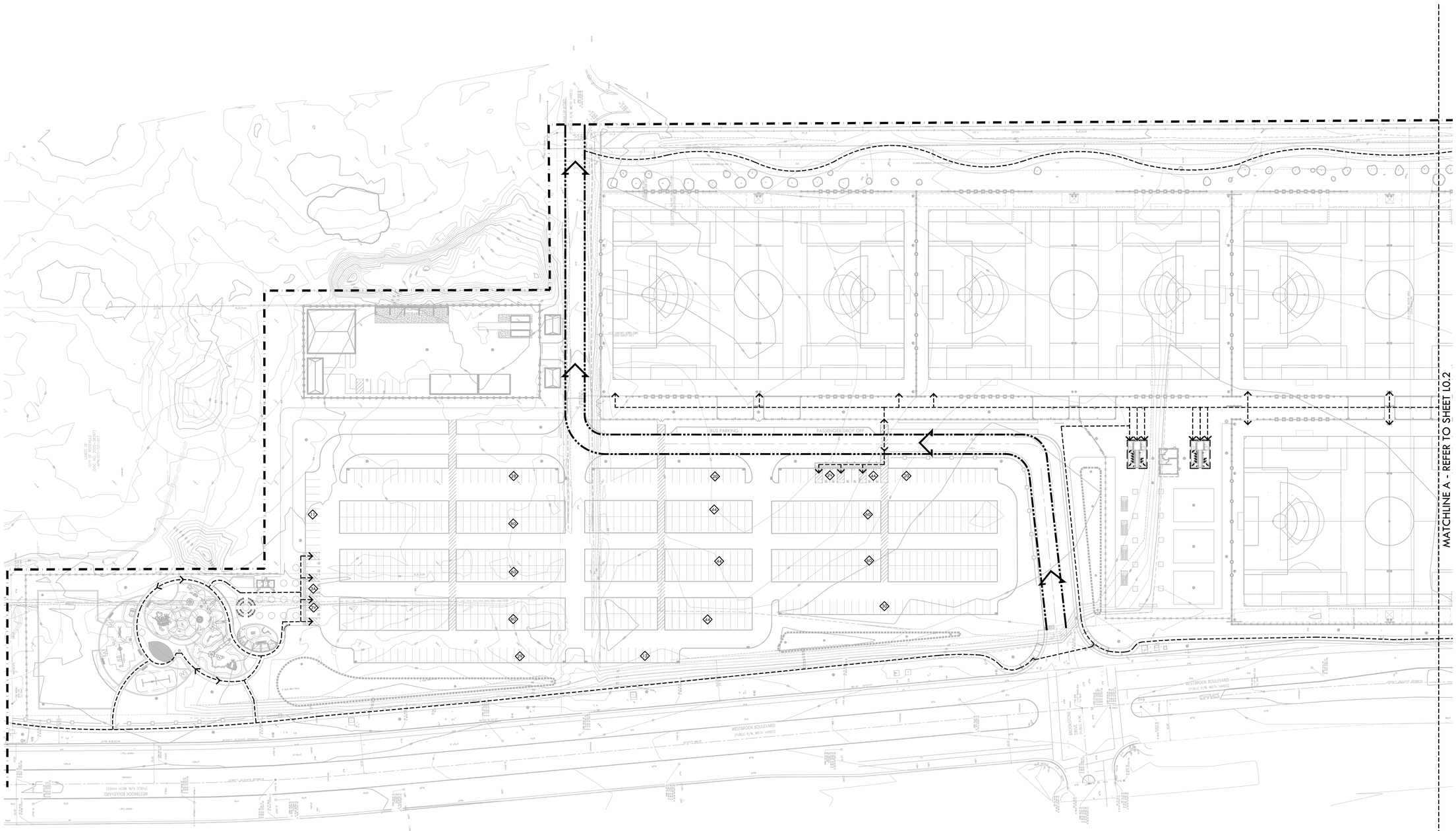
27. CONDUITS SHALL BE INSTALL AND AVAILABLE FOR FUTURE MONITORING OF ALL FIRE PROTECTION DEVICES.

28. ALL WORK SHALL BE INSPECTED BY THE FIRE DEPARTMENT PRIOR TO INSTALLING GROUND MATERIALS.

29. TO SCHEDULE A FIRE DEPARTMENT INSPECTION FOR ANY ON-SITE WORK, FOLLOW THE DIRECTIONS USING THE CITY OF ROSEVILLE CITIZEN PORTAL AT PERMITSONLINE.ROSEVILLE.CA.US. THE FOLLOWING BD NUMBER BELOW SHALL BE USED WHEN SCHEDULING A FIRE DEPARTMENT INSPECTION. A BD NUMBER WILL BE ISSUED UPON APPROVAL. ALL INQUIRING REGARDING INSPECTIONS AND PERMIT FEES SHALL BE MADE BY CALLING (916) 774-5332. BD_____.

GENERAL NOTES

1. PRIOR TO BIDDING, THE GENERAL CONTRACTOR SHALL VISIT & INSPECT THE SITE & FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AFFECTING THE NEW WORK. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOC



PARKING INFORMATION

	NON-ACCESSIBLE STALLS	PROPOSED ACCESSIBLE STALLS	REQUIRED ACCESSIBLE STALLS*	TOTAL ACCESSIBLE STALLS
NORTH LOT	595	7A, 5V	12	12
SOUTH LOT	360	5A, 4V	8	9
			TOTAL PARKING PROVIDED	955

*NUMBER OF REQUIRED ACCESSIBLE STALLS PER CBC 118-208.2

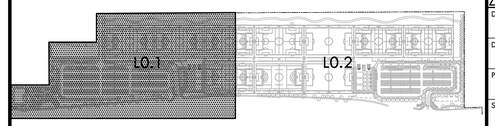
ACCESSIBILITY LEGEND

SYM	DESCRIPTION
	PROJECT LIMIT OF WORK
	ADA ACCESSIBLE PATH OF TRAVEL (4 FT. MIN. WIDTH @ S=5% MAX.)
	ADA ACCESSIBLE POINT OF ENTRY
	VEHICULAR ACCESS (24 FT. MIN. WIDTH - ARROWS INDICATE TRAVEL DIRECTION)
	FIRE DEPARTMENT ACCESS - FIRE DEPARTMENT ACCESS IS 20' AND RATED 96,000 LBS
	TRUNCATED DOMES, REFER TO DETAIL X, SHEET XX.
DF	NEW DRINKING FOUNTAIN, REFER TO DETAIL X, SHEET XX

ACCESSIBILITY PLAN NOTES

1. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING ½" BEVELED AT 1:2 MAX. SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING ¼" MAX. AND A LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.
2. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
3. ACCESSIBLE PARKING
   SIGNAGE REQUIREMENTS: THE AMENDED REGULATIONS INDICATE THAT THE SIGNAGE AT ACCESSIBLE PARKING SPACES SHALL INCLUDE "MINIMUM FINE $250" BELOW THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AS EITHER AN ADDITIONAL SIGN OR ADDITIONAL LANGUAGE. THIS FINE POSTING REQUIREMENT IS IN ADDITION TO OTHER SIGNAGE REGULATIONS CONTAINED IN THE CALIFORNIA BUILDING CODE FOR ACCESSIBLE PARKING SPACES.
4. STRIPING REQUIREMENTS:
   THE REVISED REGULATIONS INDICATE THAT THE ACCESSIBLE PARKING SPACE STRIPING SHALL BE AS FOLLOWS. THE BORDER (PERIMETER) SHALL BE PAINTED BLUE. THE HATCHING WITHIN THE LOADING AND UNLOADING ACCESS AISLE SHALL BE PAINTED A SUITABLE CONTRASTING COLOR TO THE PARKING SPACE AT 3'-0" MAXIMUM ON CENTER. BLUE OR WHITE PAINT IS PREFERRED.

NORTH
0' 25' 50' 100' 200'

KEY MAP


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LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP
REGISTERED LANDSCAPE ARCHITECT
MARK S. BASINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
ACCESSIBILITY PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY: KL
CHECKED BY: MB
DATE ISSUED: 04/29/2022
SCALE: 1"=50'-0"
PROJ. NO.: 2103800
SHEET NO.: L0.1

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DRAWING NAME: N:\Projects-FO\2021\2103800 - Roseville 6 Soccer Complex\CAD_ACC-RSC.dwg
PLOT DATE: 06-24-22 PLOTTED BY: station46

ACCESSIBILITY PLAN

MATCHLINE A - REFER TO SHEET L0.1

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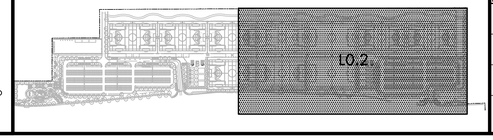

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SUBMITTAL	DATE
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KL	MB
DATE ISSUED	SCALE
04/29/2022	1"=50'-0"
PROJ. NO.	
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SHEET NO.	
L0.2	

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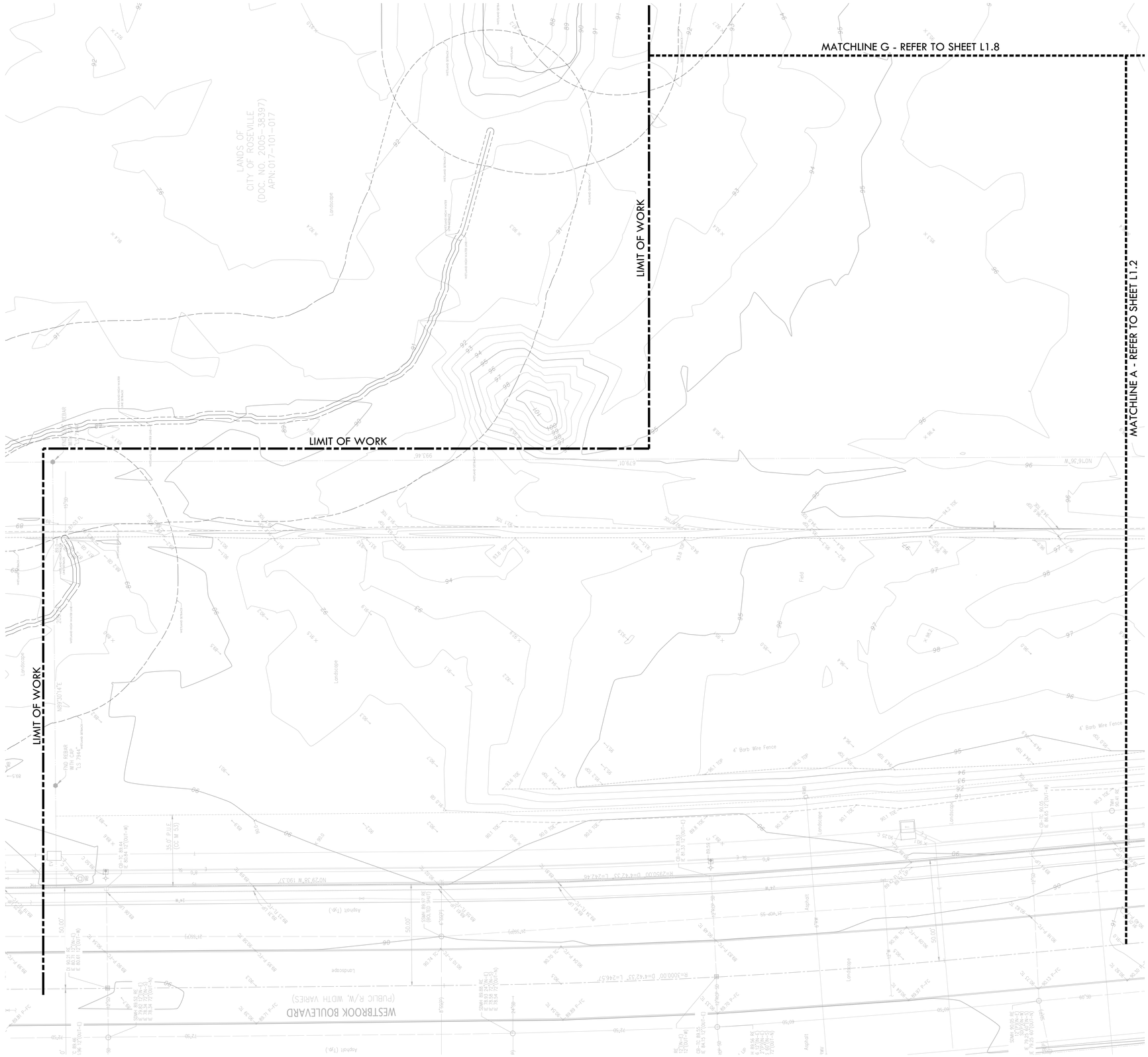
PLOT DATE: 04-29-22 PLOTTED BY: station46



EXISTING CONDITIONS NOTES

1. THIS IS NOT A BOUNDARY SURVEY. NO LIABILITY IS ASSUMED, BY KIER & WRIGHT, FOR THE EXISTENCE OF ANY EASEMENTS, ENCUMBRANCES, DISCREPANCIES IN BOUNDARY, OR TITLE DEFECTS NOT MENTIONED IN SAID DOCUMENTS AND THEREFORE NOT SHOWN ON THIS DRAWING.

2. ALL DISTANCES AND ELEVATIONS SHOWN HEREON ARE IN FEET AND DECIMALS THEREOF.

3. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. (A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES). HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS.

4. THE SUBJECT PROPERTY IS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR PLACER COUNTY, CALIFORNIA, MAP NUMBER 06061C0920H FOR COMMUNITY NUMBER 060243 (CITY OF ROSEVILLE), WITH AN EFFECTIVE DATE OF NOVEMBER 2, 2018, AS BEING LOCATED IN FLOOD ZONE "X"(NO SCREEN).

   ACCORDING TO FEMA THE DEFINITION OF ZONE "X"(NO SCREEN) IS:
   AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

   FEMA BASE FLOOD ELEVATIONS ARE BASED ON NAVD88 DATUM.

5. BENCHMARK: CITY BM 129
   3-1/4" BRASS DISK STAMPED 2018 PLS 8278, LOCATED ON THE NORTHEAST ANGLE POINT OF THE CON/SPAN ON THE EAST SIDE OF WESTBROOK BLVD. BEING APPROX. 200(FEET NORTH OF THE INTERSECTION WITH PLEASANT GROVE BLVD.
   ELEVATION = 96.120 (NAVD88)

6. BASIS OF BEARINGS:
   THE BEARING OF NORTH 05° 12' 11" WEST TAKEN ON THE MONUMENT LINE OF WESTBROC BOULEVARD AS SHOWN ON THAT CERTAIN SUBDIVISION MAP, NUMBER 000176 FILED FOR RECORD ON AUGUST 16, 2013, IN BOOK CC OF MAPS AT PAGE 53, OFFICIAL RECORDS O PLACER COUNTY WAS TAKEN AS THE BASIS FOR ALL BEARINGS SHOWN HEREON.

7. CORNER RECORD NOTE:
   THE DEVELOPER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND FILING OF PRE-CONSTRUCTION AND POST-CONSTRUCTION CORNER RECORDS FOR ANY MONUMENTS OR PROPERTY CORNERS SHOWN HEREON THAT MAY BE DESTROYED DURING IMPROVEMENTS TO THE SUBJECT PROPERTY AS DEFINED IN SECTION 8771(B) OF THE PROFESSIONAL LAND SURVEYORS ACT.

8. THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT COMPLY WITH NATIONAL STANDARD FOR SPATIAL ACCURACY (NSSDA) FOR A CONTOUR INTERVAL OF 1-FOOT AND A MAP SCALE OF 1"=40'. CONTOURS WITHIN VEGETATED AREAS AND SHADOW OUTLINED AREA MAY NOT MEET MAPPING STANDARDS AND SHOULD BE FIELD CHECKED. THIS COMPUTER PLOTTED MAP WAS GENERATED BY PHOTOGRAMMETRIC METHODS BY KIER+WRIGHT. JOB NUMBER A21651. DATE OF PHOTOGRAPHY AUGUST 2, 2021.

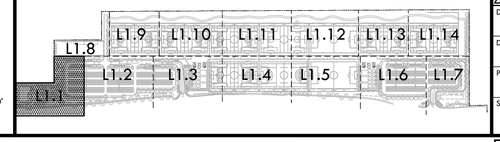
EXISTING CONDITIONS LEGEND

CTV	CABLE TELEVISION
	CONCRETE CURB
	CONCRETE CURB & GUTTER
100	MAJOR CONTOUR LINE
101	MINOR CONTOUR LINE
	EDGE OF PAVEMENT
E	ELECTRIC LINE
	FENCE LINE
FO	FIBER OPTICS LINE
FS	FIRE SERVICE LINE & VALVE
G GM	GAS LINE-VALVE & METER
JT	JOINT TRENCH LINE
	LOT LINE
	MONUMENT/MONUMENT LINE
OH	OVERHEAD POWER LINE
	PROPERTY LINE
SS	SANITARY SEWER LINE-MANHOLE & CLEANOUT
SS	SANITARY SEWER LINE OVER 24"DIAMETER
	SIDEWALK
100.00	SPOT ELEVATION
SD	STORM DRAIN LINE-MANHOLE & CATCH BASIN
SD	STORM DRAIN LINE-MANHOLE & CATCH BASIN
SD	STORM DRAIN LINE OVER 24"DIAMETER
SL	STREET LIGHT CONDUIT LINE
T	TELEPHONE LINE
CTV	CABLE TELEVISION LINE
	TREE/BRUSH CANOPY
	TOP OF BANK
	TOE OF BANK
W	WATER LINE & VALVE
W	WATER LINE OVER 24"DIAMETER
RW	RECLAIMED WATER LINE & VALVE
RW	RECLAIMED WATER LINE OVER 24"DIAMETER
TS	TRAFFIC SIGNAL
A	ANODE
AD	AREA DRAIN
	BOLLARD (UNLESS OTHERWISE NOTED)
	ELECTROLIER
	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
	POWER POLE/JOINT POLE
T	TRANSFORMER
	TRAFFIC SIGN
	WATER VALVE
12"TR	TREE
	UTILITY BOX
	UTILITY LINE MARKER

EXISTING CONDITIONS ABBREVIATIONS

AD	AREA DRAIN	R/W	RIGHT OF WAY
BLRD	BOLLARD	RWB	RECYCLED WATER BOX
BW	BACK OF WALK	RE	RIM ELEVATION
C	CONCRETE	RWB	RECYCLED WATER BOX
CB	CATCH BASIN	RWMH	RECYCLED WATER MANHOLE
CLF	CHAIN LINK FENCE	RWV	RECYCLED WATER VALVE
CMP	CORRUGATED METAL PIPE	SD	STORM DRAIN
CO	CLEANOUT	SDMH	STORM DRAIN MANHOLE
DI	DRAIN INLET	SSCO	SANITARY SEWER CLEANOUT
EB	ELECTRIC BOX	SSMH	SANITARY SEWER MANHOLE
EP	EDGE OF PAVEMENT	SLB	STREET LIGHT BOX
EW	EDGE OF WALK		TELEPHONE
EV	ELECTRIC VAULT	TC	TOP OF CURB
FC	FACE OF CURB	TB	TELEPHONE BOX
FL	FLOWLINE	TOE	TOE OF BANK
GB	GRADE BREAK	TOP	TOP OF BANK
GLM	GAS LINE MARKER	TMH	TELEPHONE MANHOLE
L/S	LANDSCAPE	TYP.	TYPICAL
MON	MONUMENT	UB	UTILITY BOX
P	PAVEMENT	VC	VALLEY GUTTER
PP	POWER POLE	VCP	VITRIFIED CLAY PIPE
(P)	PER PLAN	WB	WATER BOX
PVC	POLYVINYL CHLORIDE	WM	WATER METER
RCP	REINFORCED CONCRETE PIPE	WR	WATER RISER

KEY MAP



PREPARED BY ME OR UNDER MY SUPERVISION
CHRISTOPHER S. MARTIN, P.L.S. 9179
CMARTIN@KIERWRIGHT.COM

NORTH
0' 10' 20' 40' 80'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

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LICENSED LAND SURVEYOR
CHRISTOPHER S. MARTIN
No. 9179
STATE OF CALIFORNIA
09-24-2021
DATE

CONSULTANT

KIER+WRIGHT
2850 Collier Canyon Road
Livermore, CA 94551
Phone: (925) 245-8788
www.kierwright.com

SHEET TITLE
EXISTING CONDITIONS PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE 1"=20'-0"
PROJ. NO. 2103800	
SHEET NO. L1.1	

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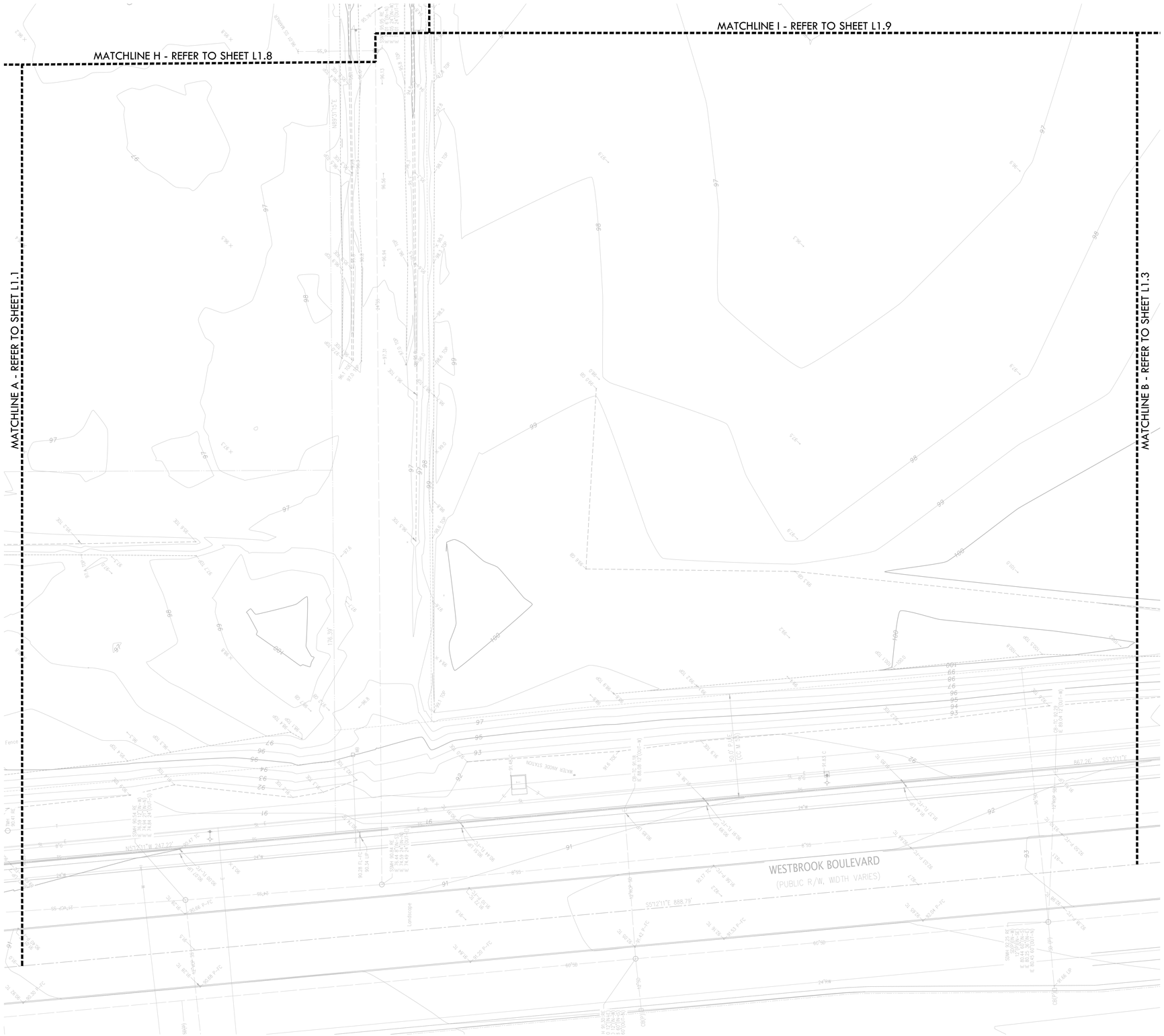
PLOT DATE: 06-24-22 PLOTTED BY: station46



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CTV	CABLE TELEVISION
	CONCRETE CURB
	CONCRETE CURB & GUTTER
100	MAJOR CONTOUR LINE
101	MINOR CONTOUR LINE
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E	ELECTRIC LINE
	FENCE LINE
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FS	FIRE SERVICE LINE & VALVE
G / GM	GAS LINE-VALVE & METER
JT	JOINT TRENCH LINE
	LOT LINE
	MONUMENT/MONUMENT LINE
OH	OVERHEAD POWER LINE
	PROPERTY LINE
SS	SANITARY SEWER LINE-MANHOLE & CLEANOUT
SS	SANITARY SEWER LINE OVER 24"DIAMETER
	SIDEWALK
100.00	SPOT ELEVATION
SD	STORM DRAIN LINE-MANHOLE & CATCH BASIN
SD	STORM DRAIN LINE-MANHOLE & CATCH BASIN
SD	STORM DRAIN LINE OVER 24"DIAMETER
SL	STREET LIGHT CONDUIT LINE
T	TELEPHONE LINE
CTV	CABLE TELEVISION LINE
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CMP	CORRUGATED METAL PIPE	SD	STORM DRAIN
CO	CLEANOUT	SDMH	STORM DRAIN MANHOLE
DI	DRAIN INLET	SSCO	SANITARY SEWER CLEANOUT
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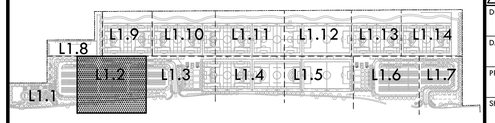

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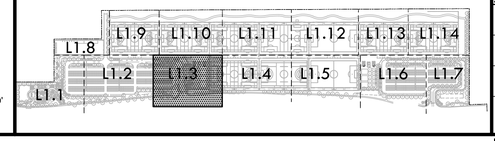

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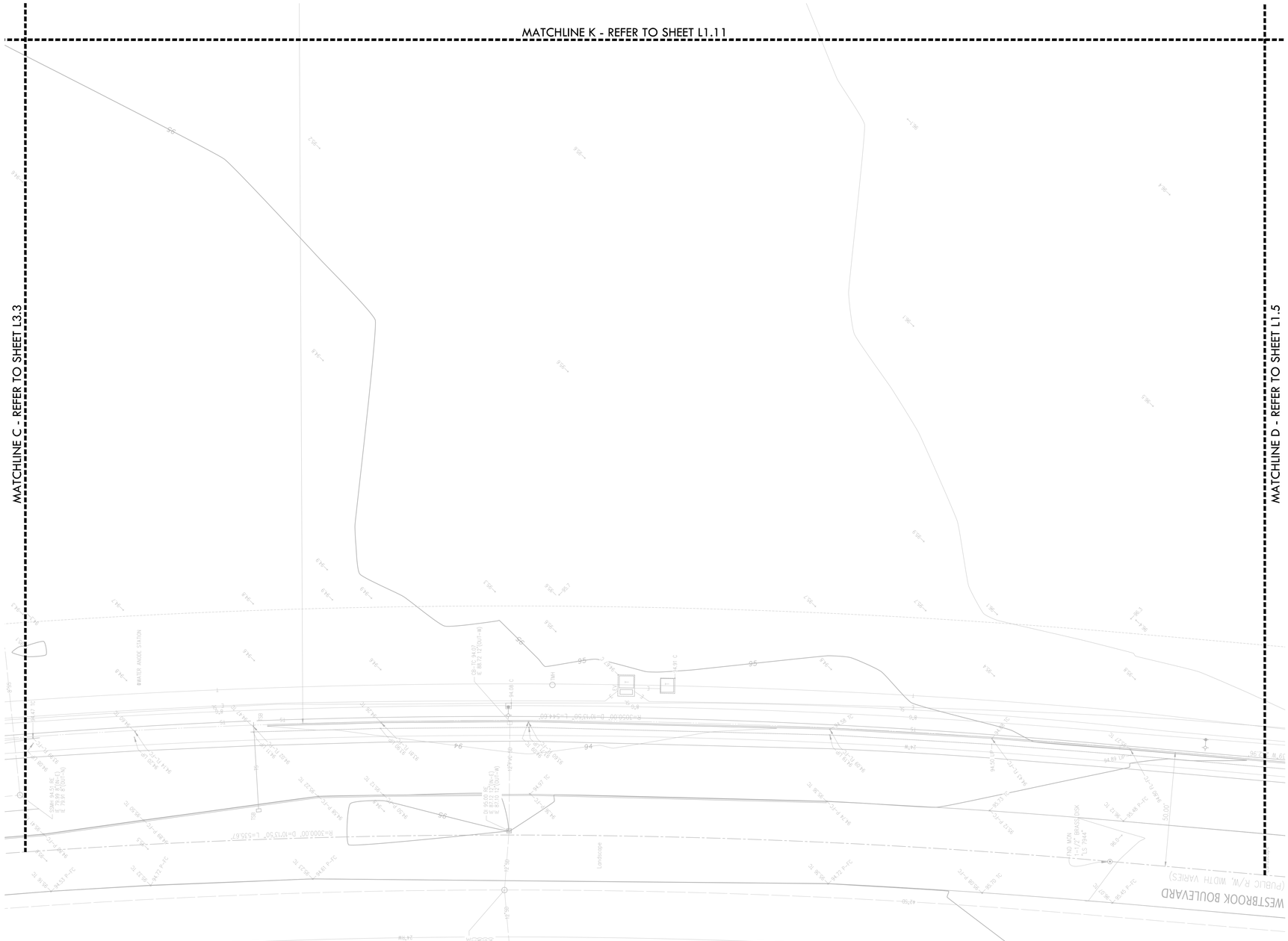

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CMP	CORRUGATED METAL PIPE	SD	STORM DRAIN
CO	CLEANOUT	SDMH	STORM DRAIN MANHOLE
DI	DRAIN INLET	SSCO	SANITARY SEWER CLEANOUT
EB	ELECTRIC BOX	SSMH	SANITARY SEWER MANHOLE
EP	EDGE OF PAVEMENT	SLB	STREET LIGHT BOX
EW	EDGE OF WALK		TELEPHONE
EV	ELECTRIC VAULT	TC	TOP OF CURB
FC	FACE OF CURB	TB	TELEPHONE BOX
FL	FLOWLINE	TOE	TOE OF BANK
GB	GRADE BREAK	TOP	TOP OF BANK
GLM	GAS LINE MARKER	TMH	TELEPHONE MANHOLE
L/S	LANDSCAPE	TYP.	TYPICAL
MON	MONUMENT	UB	UTILITY BOX
P	PAVEMENT	VG	VALLEY GUTTER
PP	POWER POLE	VCP	VITRIFIED CLAY PIPE
(P)	PER PLAN	WB	WATER BOX
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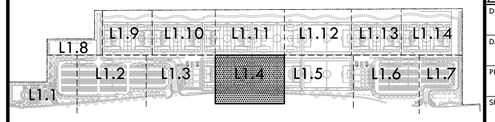
RCP	REINFORCED CONCRETE PIPE	WR	WATER RISER

KEY MAP



PREPARED BY ME OR UNDER MY SUPERVISION
CHRISTOPHER S. MARTIN, P.L.S. 9179
CMARTIN@KIERWRIGHT.COM

NORTH

0' 10' 20' 40' 80'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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CHRISTOPHER S. MARTIN
No. 9179
STATE OF CALIFORNIA
09-24-2021
DATE

CONSULTANT

KIER+WRIGHT
2850 Collier Canyon Road
Livermore, CA 94551
Phone: (925) 245-8788
www.kierwright.com

SHEET TITLE
EXISTING CONDITIONS PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE 1"=20'-0"
PROJ. NO. 2103800	
SHEET NO. L1.4	

EXISTING CONDITIONS PLAN

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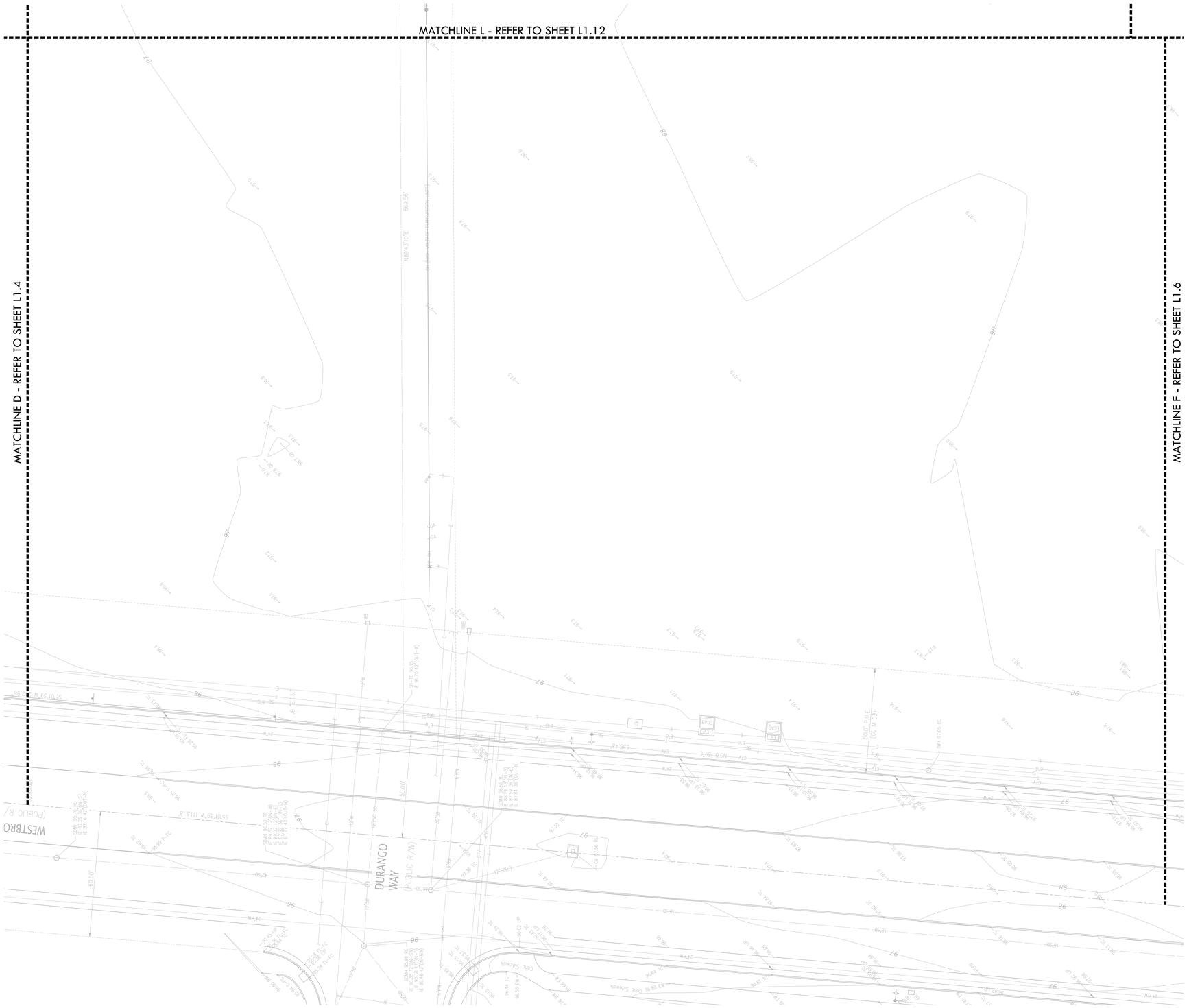
PLOT DATE: 04-28-22 PLOTTED BY: station46



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	CONCRETE CURB
	CONCRETE CURB & GUTTER
100	MAJOR CONTOUR LINE
101	MINOR CONTOUR LINE
	EDGE OF PAVEMENT
E	ELECTRIC LINE
	FENCE LINE
FO	FIBER OPTICS LINE
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G — GM	GAS LINE-VALVE & METER
JT	JOINT TRENCH LINE
	LOT LINE
	MONUMENT/MONUMENT LINE
OH	OVERHEAD POWER LINE
	PROPERTY LINE
SS	SANITARY SEWER LINE-MANHOLE & CLEANOUT
SS	SANITARY SEWER LINE OVER 24"DIAMETER
	SIDEWALK
100.00	SPOT ELEVATION
SD	STORM DRAIN LINE-MANHOLE & CATCH BASIN
SD	STORM DRAIN LINE-MANHOLE & CATCH BASIN
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CTV	CABLE TELEVISION LINE
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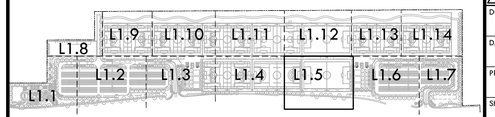

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SHEET NO. L1.5	

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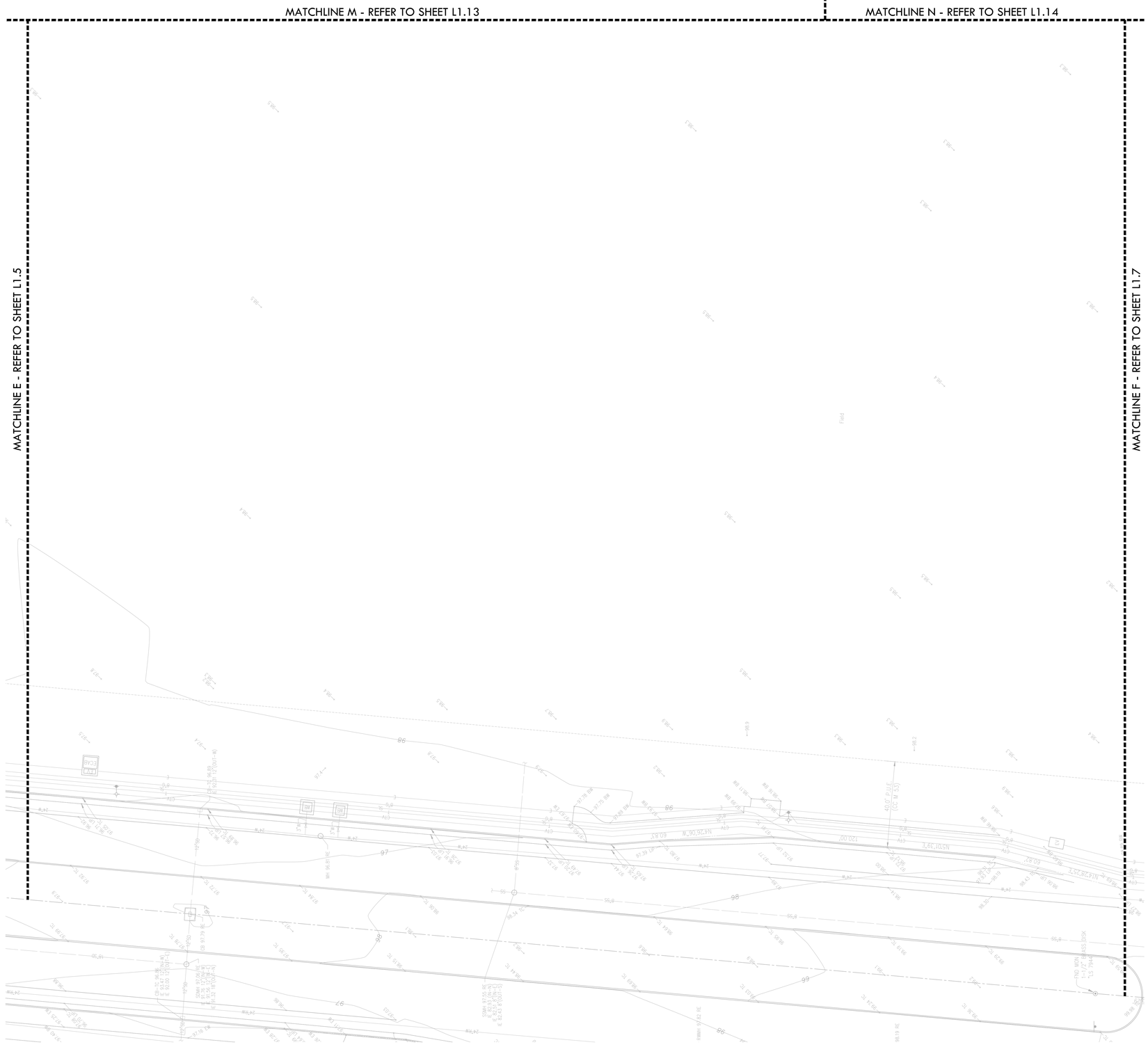
PLOT DATE: 04-28-22 PLOTTED BY: station46

MATCHLINE M - REFER TO SHEET L1.13

MATCHLINE N - REFER TO SHEET L1.14

MATCHLINE E - REFER TO SHEET L1.5

MATCHLINE F - REFER TO SHEET L1.7



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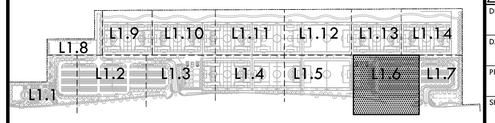

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PROJ. NO. 2103800

SHEET NO. L1.6

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SD	STORM DRAIN LINE-MANHOLE & CATCH BASIN
SD	STORM DRAIN LINE OVER 24"DIAMETER
SL	STREET LIGHT CONDUIT LINE
T	TELEPHONE LINE
CTV	CABLE TELEVISION LINE
	TREE/BRUSH CANOPY
	TOP OF BANK
	TOE OF BANK
W	WATER LINE & VALVE
W	WATER LINE OVER 24"DIAMETER
RW	RECLAIMED WATER LINE & VALVE
RW	RECLAIMED WATER LINE OVER 24"DIAMETER
TS	TRAFFIC SIGNAL
A	ANODE
AD	AREA DRAIN
	BOLLARD (UNLESS OTHERWISE NOTED)
	ELECTROLIER
	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
	POWER POLE/JOINT POLE
T	TRANSFORMER
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	WATER VALVE
12"TR	TREE
	UTILITY BOX
	UTILITY LINE MARKER

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BLRD	BOLLARD	RWB	RECYCLED WATER BOX
BW	BACK OF WALK	RE	RIM ELEVATION
C	CONCRETE	RWB	RECYCLED WATER BOX
CB	CATCH BASIN	RWMH	RECYCLED WATER MANHOLE
CLF	CHAIN LINK FENCE	RWV	RECYCLED WATER VALVE
CMP	CORRUGATED METAL PIPE	SD	STORM DRAIN
CO	CLEANOUT	SDMH	STORM DRAIN MANHOLE
DI	DRAIN INLET	SSCO	SANITARY SEWER CLEANOUT
EB	ELECTRIC BOX	SSMH	SANITARY SEWER MANHOLE
EP	EDGE OF PAVEMENT	SLB	STREET LIGHT BOX
EW	EDGE OF WALK		TELEPHONE
EV	ELECTRIC VAULT	TC	TOP OF CURB
FC	FACE OF CURB	TB	TELEPHONE BOX
FL	FLOWLINE	TOE	TOE OF BANK
GB	GRADE BREAK	TOP	TOP OF BANK
GLM	GAS LINE MARKER	TMH	TELEPHONE MANHOLE
L/S	LANDSCAPE	TYP.	TYPICAL
MON	MONUMENT	UB	UTILITY BOX
P	PAVEMENT	VG	VALLEY GUTTER
PP	POWER POLE	VCP	VITRIFIED CLAY PIPE
(P)	PER PLAN	WB	WATER BOX
PVC	POLYVINYL CHLORIDE	WM	WATER METER
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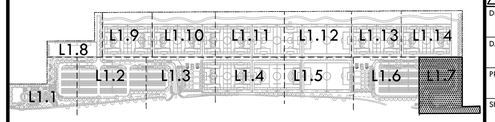

PREPARED BY ME OR UNDER MY SUPERVISION
CHRISTOPHER S. MARTIN, P.L.S. 9179
CMARTIN@KIERWRIGHT.COM

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STATE OF CALIFORNIA
09-24-2021
DATE

CONSULTANT

KIER+WRIGHT
2850 Collier Canyon Road
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Phone: (925) 245-8788
www.kierwright.com

SHEET TITLE
EXISTING CONDITIONS PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY
CHECKED BY
DATE ISSUED 04/29/2022
SCALE 1"=20'-0"
PROJ. NO. 2103800
SHEET NO. L1.7

EXISTING CONDITIONS PLAN

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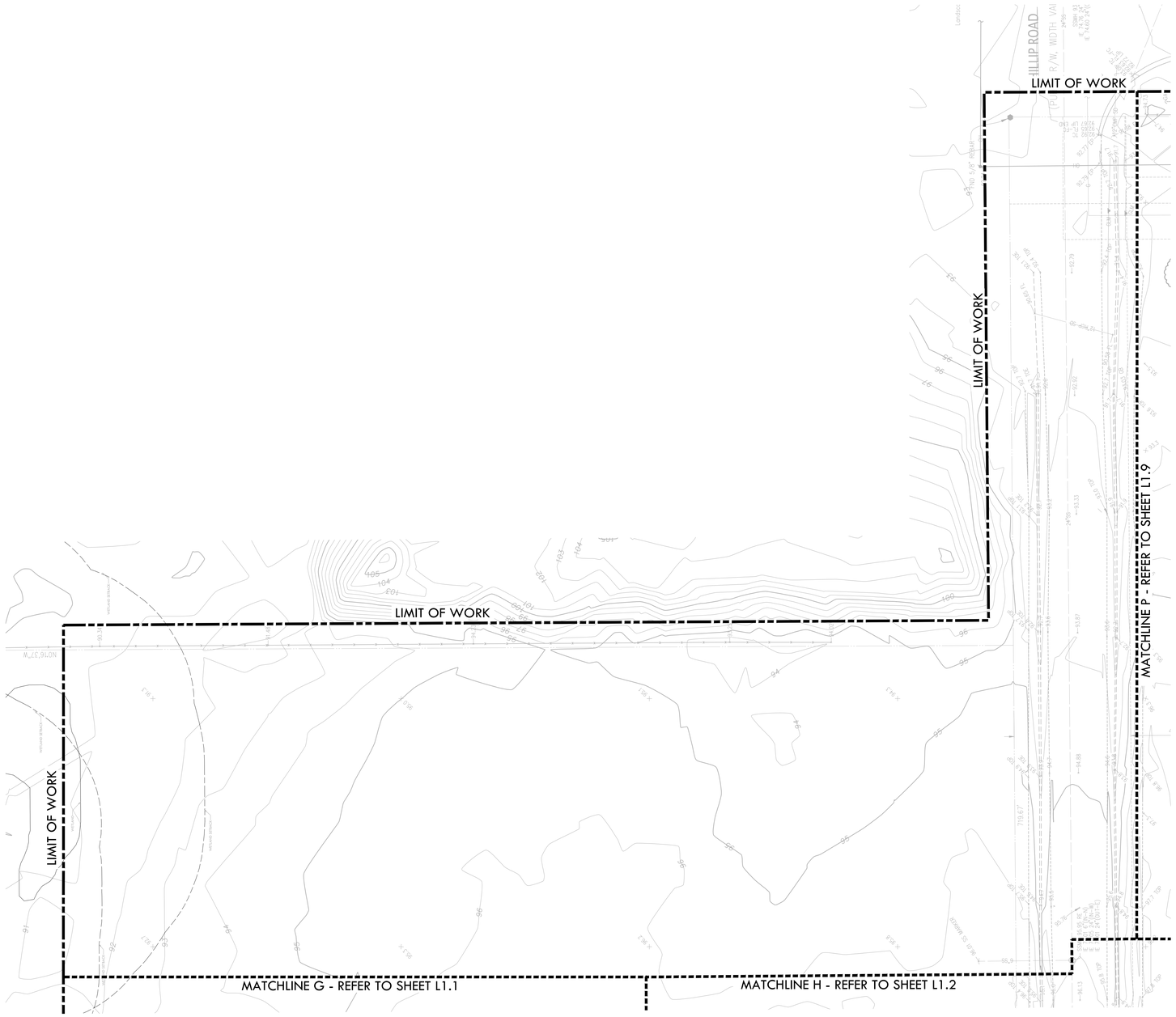
PLOT DATE: 04-28-22 PLOTTED BY: station46



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	CONCRETE CURB
	CONCRETE CURB & GUTTER
100	MAJOR CONTOUR LINE
101	MINOR CONTOUR LINE
	EDGE OF PAVEMENT
E	ELECTRIC LINE
	FENCE LINE
FO	FIBER OPTICS LINE
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SS	SANITARY SEWER LINE OVER 24"DIAMETER
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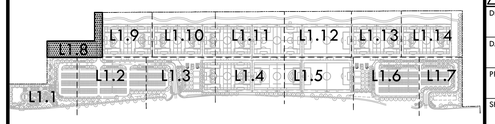

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CHRISTOPHER S. MARTIN, P.L.S. 9179
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SHEET TITLE
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PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY
CHECKED BY
DATE ISSUED 04/29/2022
SCALE 1"=20'-0"
PROJ. NO. 2103800
SHEET NO. L1.8

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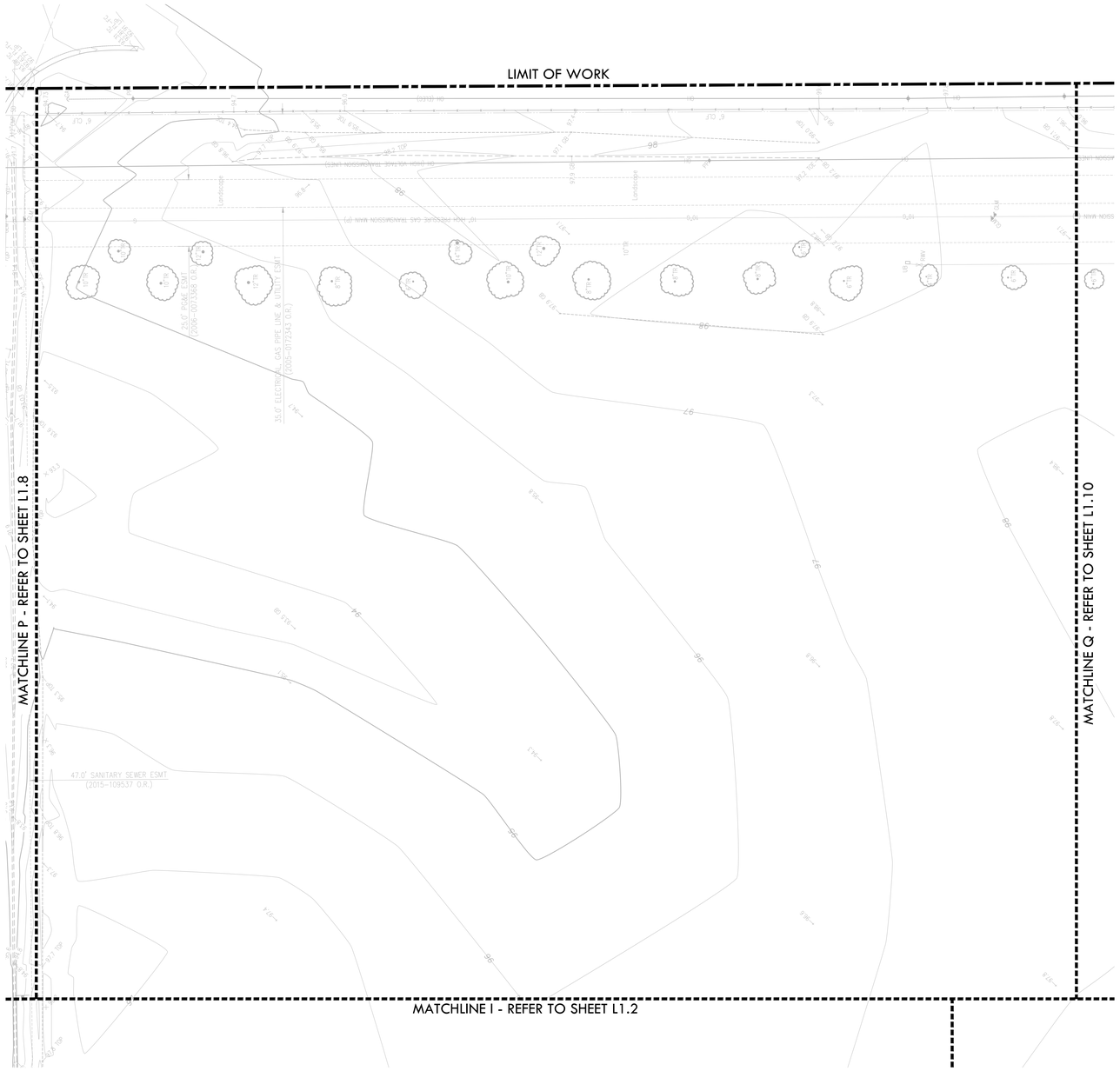
PLOT DATE: 06-24-22 PLOTTED BY: station46



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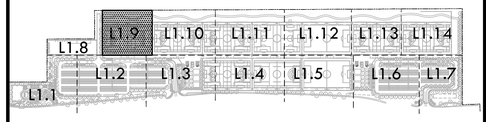

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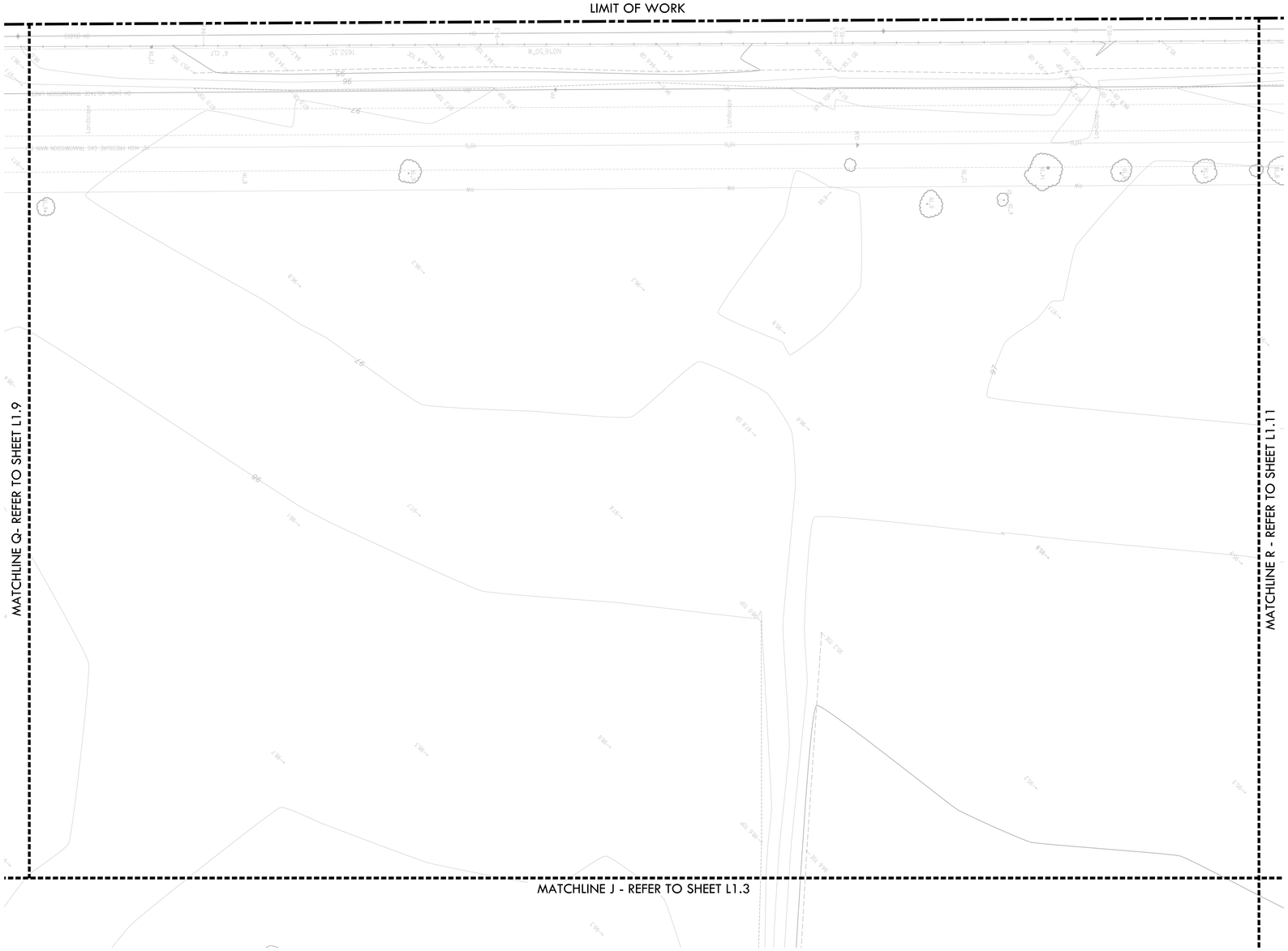

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EXISTING CONDITIONS LEGEND

CTV	CABLE TELEVISION
	CONCRETE CURB
	CONCRETE CURB & GUTTER
100	MAJOR CONTOUR LINE
101	MINOR CONTOUR LINE
	EDGE OF PAVEMENT
E	ELECTRIC LINE
	FENCE LINE
FO	FIBER OPTICS LINE
FS	FIRE SERVICE LINE & VALVE
G GM	GAS LINE-VALVE & METER
JT	JOINT TRENCH LINE
	LOT LINE
	MONUMENT/MONUMENT LINE
OH	OVERHEAD POWER LINE
	PROPERTY LINE
SS	SANITARY SEWER LINE-MANHOLE & CLEANOUT
SS	SANITARY SEWER LINE OVER 24"DIAMETER
	SIDEWALK
100.00	SPOT ELEVATION
SD	STORM DRAIN LINE-MANHOLE & CATCH BASIN
SD	STORM DRAIN LINE-MANHOLE & CATCH BASIN
SD	STORM DRAIN LINE OVER 24"DIAMETER
SL	STREET LIGHT CONDUIT LINE
T	TELEPHONE LINE
CTV	CABLE TELEVISION LINE
	TREE/BRUSH CANOPY
	TOP OF BANK
	TOE OF BANK
W	WATER LINE & VALVE
W	WATER LINE OVER 24"DIAMETER
RW	RECLAIMED WATER LINE & VALVE
RW	RECLAIMED WATER LINE OVER 24"DIAMETER
TS	TRAFFIC SIGNAL
A	ANODE
AD	AREA DRAIN
	BOLLARD (UNLESS OTHERWISE NOTED)
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	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
	POWER POLE/JOINT POLE
T	TRANSFORMER
	TRAFFIC SIGN
	WATER VALVE
12"TR	TREE
	UTILITY BOX
	UTILITY LINE MARKER

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BW	BACK OF WALK	RE	RIM ELEVATION
C	CONCRETE	RWB	RECYCLED WATER BOX
CB	CATCH BASIN	RWMH	RECYCLED WATER MANHOLE
CLF	CHAIN LINK FENCE	RWV	RECYCLED WATER VALVE
CMP	CORRUGATED METAL PIPE	SD	STORM DRAIN
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EP	EDGE OF PAVEMENT	SLB	STREET LIGHT BOX
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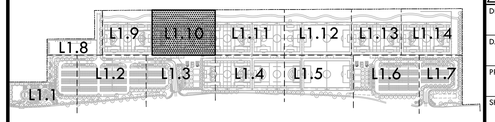
KEY MAP



PREPARED BY ME OR UNDER MY SUPERVISION
CHRISTOPHER S. MARTIN, P.L.S. 9179
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NORTH

0' 10' 20' 40' 80'

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No. 9179
STATE OF CALIFORNIA
09-24-2021
DATE

CONSULTANT

KIER+WRIGHT
2850 Collier Canyon Road
Livermore, CA 94551
Phone: (925) 245-8788
www.kierwright.com

SHEET TITLE
EXISTING CONDITIONS PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY
DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
PROJ. NO.: 2103800
SHEET NO.: L1.10

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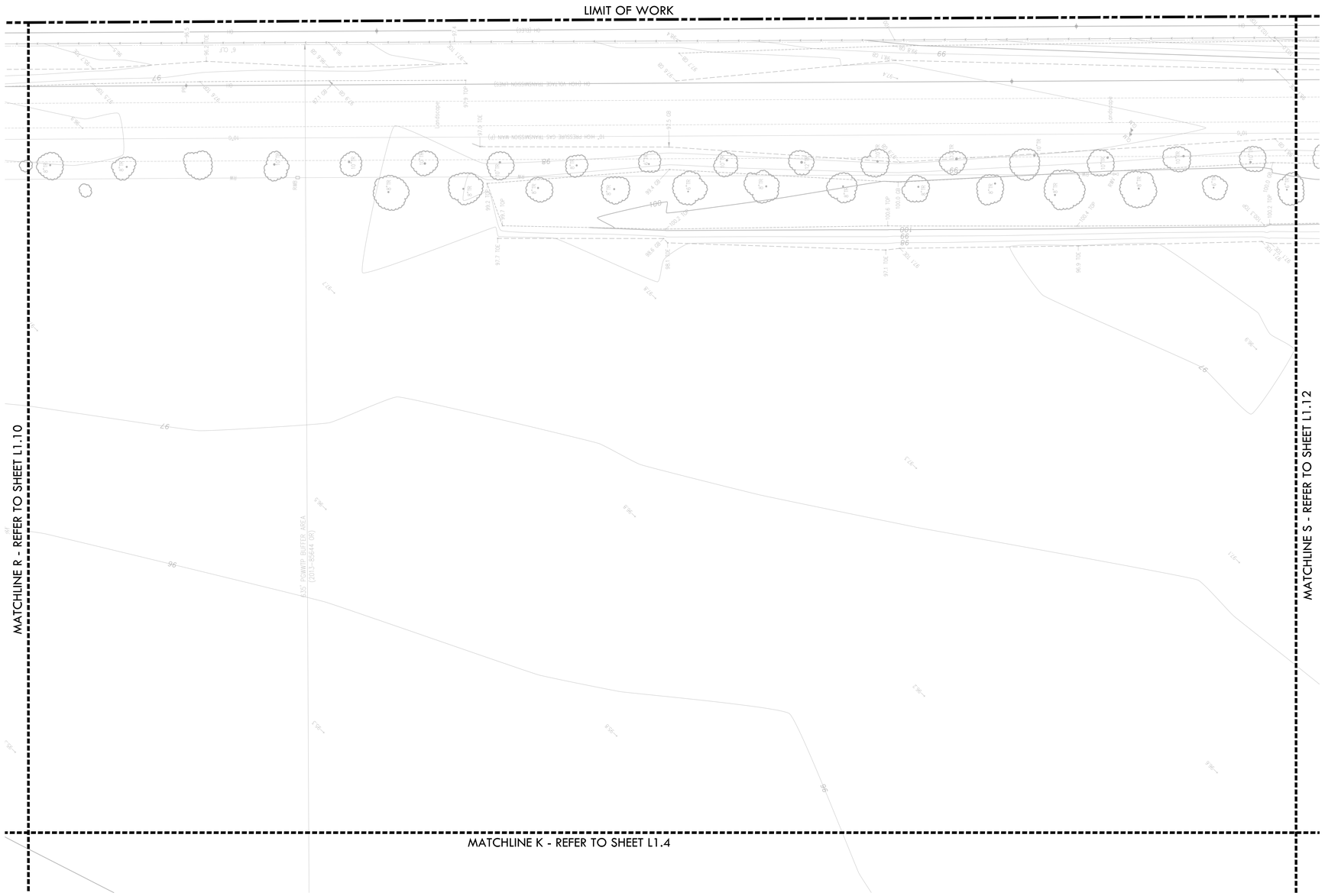
DRAWING NAME: Y:\Projects-FO\2021\2103800 - Roseville 6 Soccer Complex\CAD_EXC-RSC.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station46



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	CONCRETE CURB & GUTTER
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101	MINOR CONTOUR LINE
	EDGE OF PAVEMENT
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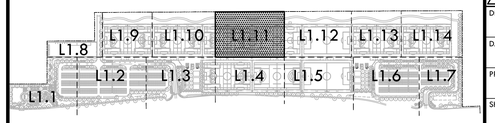

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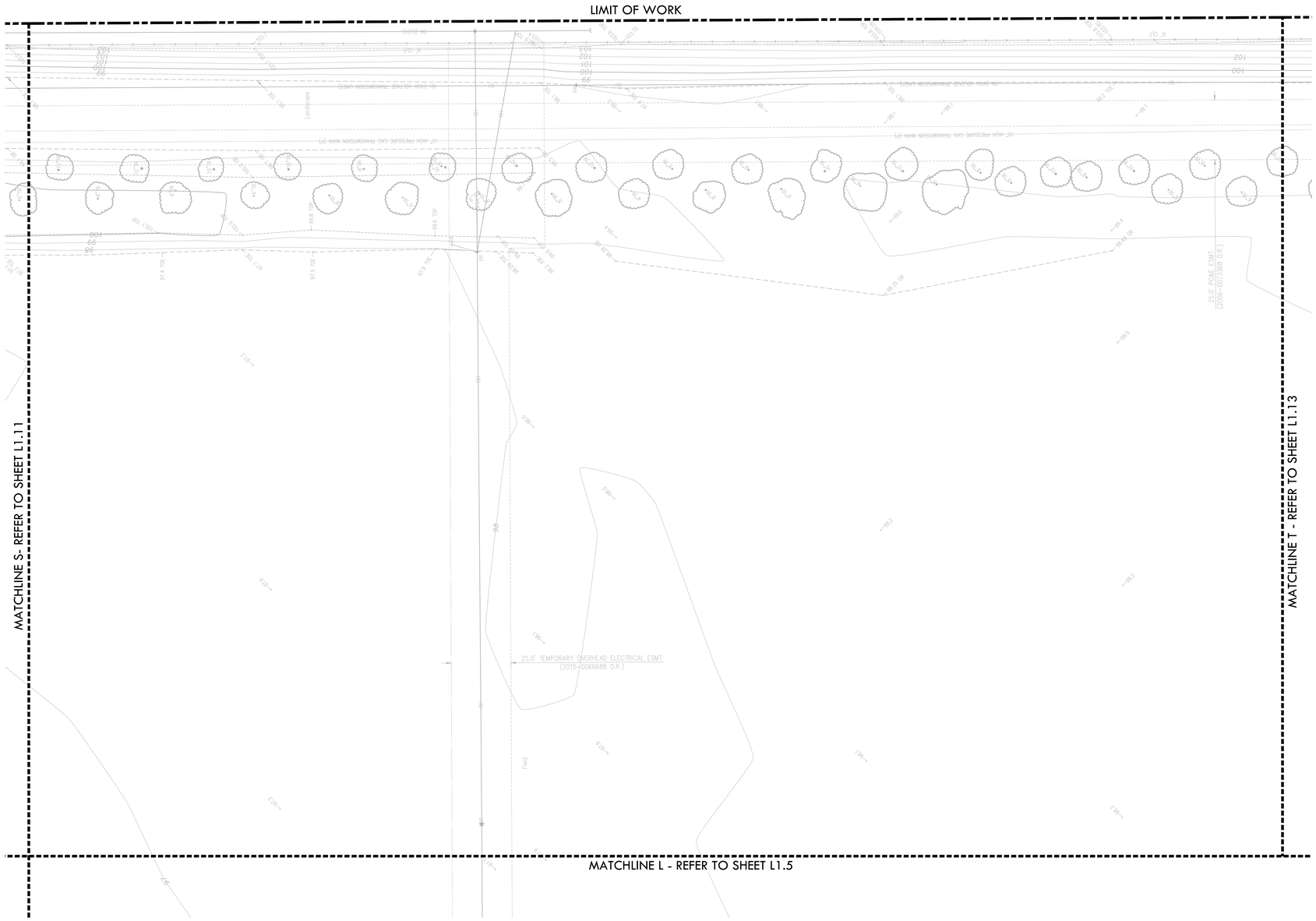

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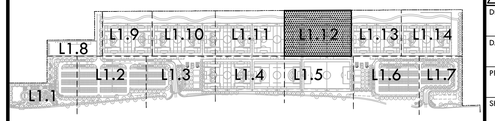

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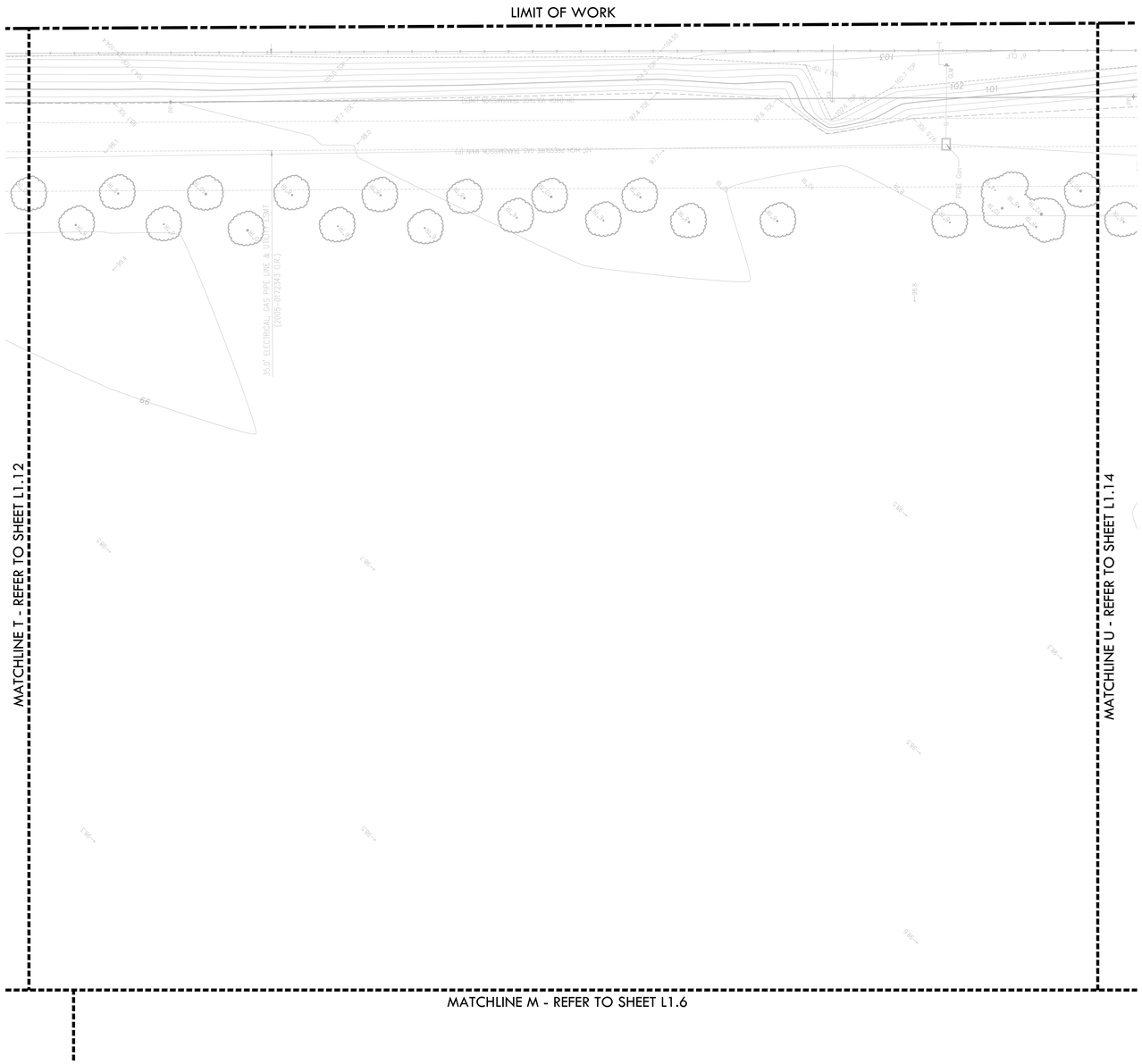
PLOT DATE: 06-24-22 PLOTTED BY: stanton46



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   FEMA BASE FLOOD ELEVATIONS ARE BASED ON NAVD88 DATUM.

5. BENCHMARK: CITY BM 129
   3-1/4" BRASS DISK STAMPED 2018 PLS 8278, LOCATED ON THE NORTHEAST ANGLE POINT OF THE CON/SPAN ON THE EAST SIDE OF WESTBROOK BLVD. BEING APPROX. 200(FEET NORTH OF THE INTERSECTION WITH PLEASANT GROVE BLVD.
   ELEVATION = 96.120 (NAVD88)

6. BASIS OF BEARINGS:
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EXISTING CONDITIONS LEGEND

CTV	CABLE TELEVISION
	CONCRETE CURB
	CONCRETE CURB & GUTTER
100	MAJOR CONTOUR LINE
101	MINOR CONTOUR LINE
	EDGE OF PAVEMENT
E	ELECTRIC LINE
	FENCE LINE
FO	FIBER OPTICS LINE
FS	FIRE SERVICE LINE & VALVE
G GM	GAS LINE-VALVE & METER
JT	JOINT TRENCH LINE
	LOT LINE
	MONUMENT/MONUMENT LINE
OH	OVERHEAD POWER LINE
	PROPERTY LINE
SS	SANITARY SEWER LINE-MANHOLE & CLEANOUT
SS	SANITARY SEWER LINE OVER 24"DIAMETER
	SIDEWALK
100.00	SPOT ELEVATION
SD	STORM DRAIN LINE-MANHOLE & CATCH BASIN
SD	STORM DRAIN LINE-MANHOLE & CATCH BASIN
SD	STORM DRAIN LINE OVER 24"DIAMETER
SL	STREET LIGHT CONDUIT LINE
T	TELEPHONE LINE
CTV	CABLE TELEVISION LINE
	TREE/BRUSH CANOPY
	TOP OF BANK
	TOE OF BANK
W	WATER LINE & VALVE
W	WATER LINE OVER 24"DIAMETER
RW	RECLAIMED WATER LINE & VALVE
RW	RECLAIMED WATER LINE OVER 24"DIAMETER
TS	TRAFFIC SIGNAL
A	ANODE
AD	AREA DRAIN
	BOLLARD (UNLESS OTHERWISE NOTED)
	ELECTROLIER
	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
	POWER POLE/JOINT POLE
T	TRANSFORMER
	TRAFFIC SIGN
	WATER VALVE
12"TR	TREE
	UTILITY BOX
	UTILITY LINE MARKER

EXISTING CONDITIONS ABBREVIATIONS

AD	AREA DRAIN	R/W	RIGHT OF WAY
BLRD	BOLLARD	RWB	RECYCLED WATER BOX
BW	BACK OF WALK	RE	RIM ELEVATION
C	CONCRETE	RWB	RECYCLED WATER BOX
CB	CATCH BASIN	RWMH	RECYCLED WATER MANHOLE
CLF	CHAIN LINK FENCE	RWV	RECYCLED WATER VALVE
CMP	CORRUGATED METAL PIPE	SD	STORM DRAIN
CO	CLEANOUT	SDMH	STORM DRAIN MANHOLE
DI	DRAIN INLET	SSCO	SANITARY SEWER CLEANOUT
EB	ELECTRIC BOX	SSMH	SANITARY SEWER MANHOLE
EP	EDGE OF PAVEMENT	SLB	STREET LIGHT BOX
EW	EDGE OF WALK		TELEPHONE
EV	ELECTRIC VAULT	TC	TOP OF CURB
FC	FACE OF CURB	TB	TELEPHONE BOX
FL	FLOWLINE	TOE	TOE OF BANK
GB	GRADE BREAK	TOP	TOP OF BANK
GLM	GAS LINE MARKER	TMH	TELEPHONE MANHOLE
L/S	LANDSCAPE	TYP.	TYPICAL
MON	MONUMENT	UB	UTILITY BOX
P	PAVEMENT	VG	VALLEY GUTTER
PP	POWER POLE	VCP	VITRIFIED CLAY PIPE
(P)	PER PLAN	WB	WATER BOX
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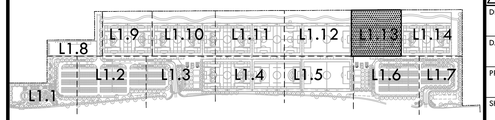
KEY MAP



PREPARED BY ME OR UNDER MY SUPERVISION
CHRISTOPHER S. MARTIN, P.L.S. 9179
CMARTIN@KIERWRIGHT.COM

NORTH

0' 10' 20' 40' 80'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

LICENSED LAND SURVEYOR
CHRISTOPHER S. MARTIN
No. 9179
STATE OF CALIFORNIA
09-24-2021
DATE

CONSULTANT

KIER+WRIGHT
2850 Collier Canyon Road
Livermore, CA 94551
Phone: (925) 245-8788
www.kierwright.com

SHEET TITLE
EXISTING CONDITIONS PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY
CHECKED BY
DATE ISSUED 04/29/2022
SCALE 1"=20'-0"
PROJ. NO. 2103800
SHEET NO. L1.13

EXISTING CONDITIONS PLAN

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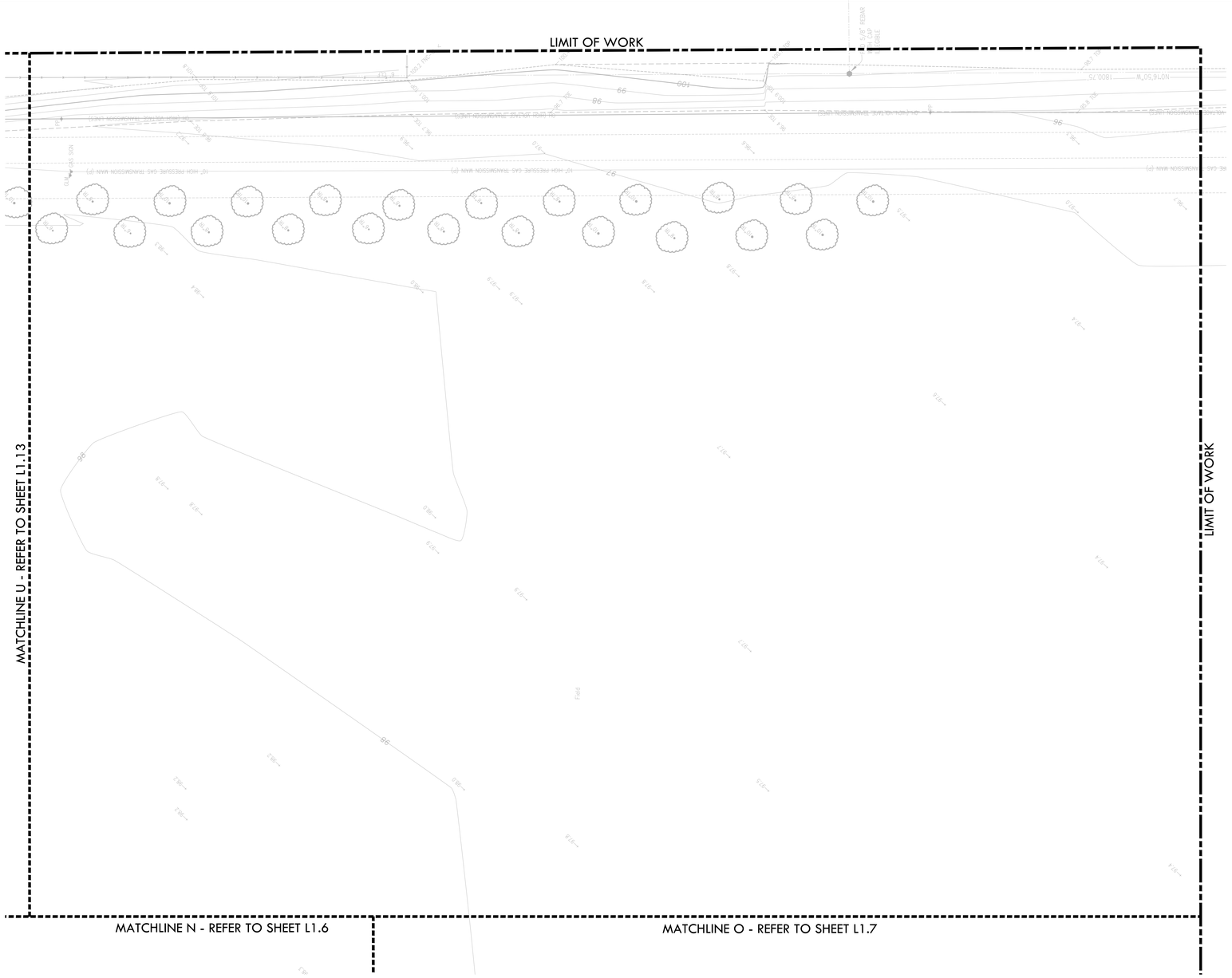
DRAWING NAME: Y:\Projects-FO\2021\2103800 - Roseville 6 Soccer Complex\CAD_EXC-RSC.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station46



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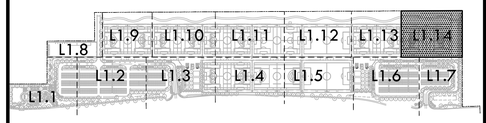
KEY MAP



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CHRISTOPHER S. MARTIN, P.L.S. 9179
CMARTIN@KIERWRIGHT.COM

NORTH
0' 10' 20' 40' 80'

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LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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SHEET TITLE
EXISTING CONDITIONS PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE 1"=20'-0"
PROJ. NO. 2103800	
SHEET NO. L1.14	

EXISTING CONDITIONS PLAN

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DRAWING NAME: Y:\Projects-FO\2021\2103800 - Roseville 6 Soccer Complex\CAD_EXC-RSC.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station46

MATCHLINE G - REFER TO SHEET L2.8

MATCHLINE A - REFER TO SHEET L2.2

LIMIT OF WORK

LIMIT OF WORK

LANDS OF CITY OF ROSEVILLE (DOC. NO. 2005-38397) APN: 017-101-017

WESTBROOK BOULEVARD (PUBLIC R/W, WIDTH VARIES)

4' Barb Wire Fence

Landscape

Asphalt (Typ.)

RW

NORTH

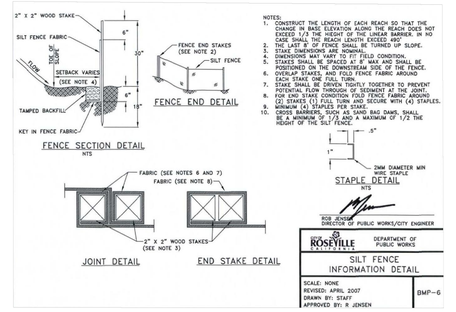
0' 10' 20' 40' 80'

EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL SHALL BE CONSTRUCTED DURING FIRST WEEK OF CONSTRUCTION.
2. EROSION AND SEDIMENT CONTROL SHALL REMAIN THROUGHOUT CONSTRUCTION AND BE REMOVED AND DISPOSED OF DURING MAINTENANCE PERIOD.
3. EROSION AND SEDIMENT CONTROL MAY BE ADJUSTED THROUGH CONSTRUCTION WITH APPROVAL OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
4. CONTRACTOR SHALL SWEEP STREETS AND PARKING AREAS AFFECTED BY CONSTRUCTION WITH STREET SWEEPER AS REQUIRED TO KEEP PAVING CLEAN OF CONSTRUCTION DEBRIS.

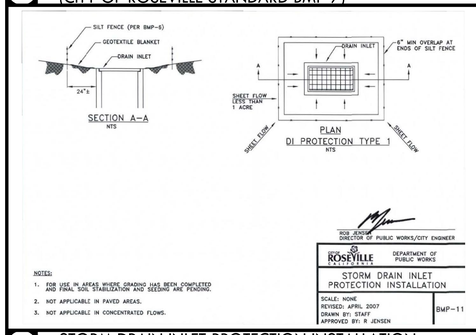
EROSION AND SEDIMENT CONTROL LEGEND

SYM.	DESCRIPTION	DET REF
(1)	FILTER FABRIC TO BE SECURELY ATTACHED TO DRAINAGE STRUCTURE TOP AND PERIMETER SILT FENCE	B,C 12.1
	LIMIT OF WORK	
	FILTER ROLL BARRIER	A 12.2
	CONSTRUCTION WASHOUT AREA - PROVIDE A WASHOUT BIN FOR CONSTRUCTION WASHOUT AND REMOVE AT END OF CONSTRUCTION.	C 12.2
	CONSTRUCTION STAGING AREA	
	STABILIZED CONSTRUCTION ENTRY	B 12.2
	DIRECTION OF SURFACE FLOW	



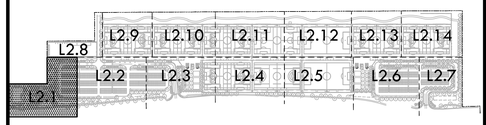
A SILT FENCE INFORMATION (CITY OF ROSEVILLE STANDARD BMP-6) NTS

B INLET SEDIMENT CONTROL INSTALLATION (CITY OF ROSEVILLE STANDARD BMP-7) NTS



C STORM DRAIN INLET PROTECTION INSTALLATION (CITY OF ROSEVILLE STANDARD BMP-11) NTS

KEY MAP



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STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
EROSION AND SEDIMENT CONTROL PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE 1"=20'-0"
PROJ. NO. 2103800	
SHEET NO. L2.1	

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DRAWING NAME: Y:\Projects-FO\2021\2103800 - Roseville & Soccer Complex\CAD_SWP-RSC.dwg
PLOT DATE: 06-24-22 PLOTTED BY: station46

MATCHLINE H - REFER TO SHEET L2.8

MATCHLINE I - REFER TO SHEET L2.9

MATCHLINE A - REFER TO SHEET L2.1

MATCHLINE B - REFER TO SHEET L3.3

BUS PARKING

PASSENGER DROP OFF

WESTBROOK BOULEVARD
(PUBLIC R/W, WIDTH VARIES)

NORTH

0' 10' 20' 40' 80'

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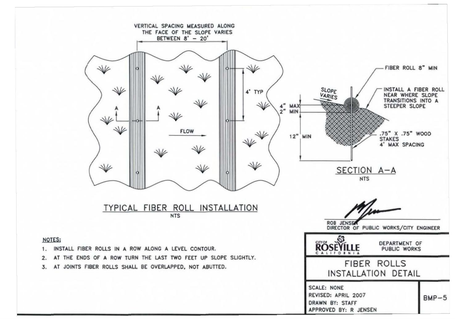
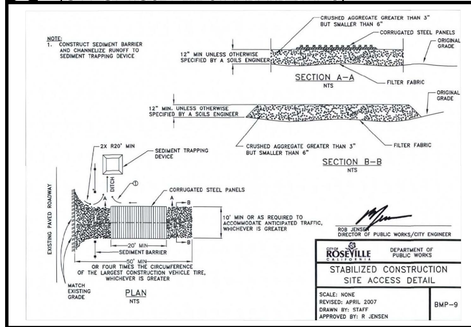
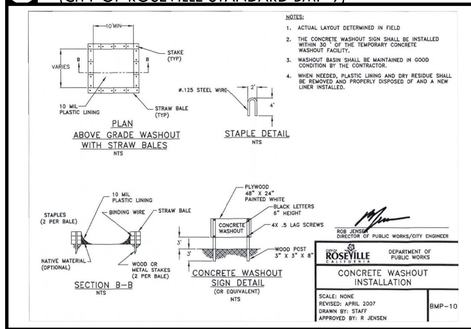
	DIRECTION OF SURFACE FLOW	



A FIBER ROLLS INSTALLATION (CITY OF ROSEVILLE STANDARD BMP-5) NTS

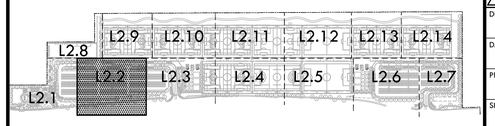


B STABILIZED CONSTRUCTION SITE ACCESS (CITY OF ROSEVILLE STANDARD BMP-9) NTS



C CONCRETE WASHOUT INSTALLATION (CITY OF ROSEVILLE STANDARD BMP-10) NTS

KEY MAP



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fax: 916.415.6525
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REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
EROSION AND SEDIMENT CONTROL PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE 1"=20'-0"
PROJ. NO. 2103800	
SHEET NO. L2.2	

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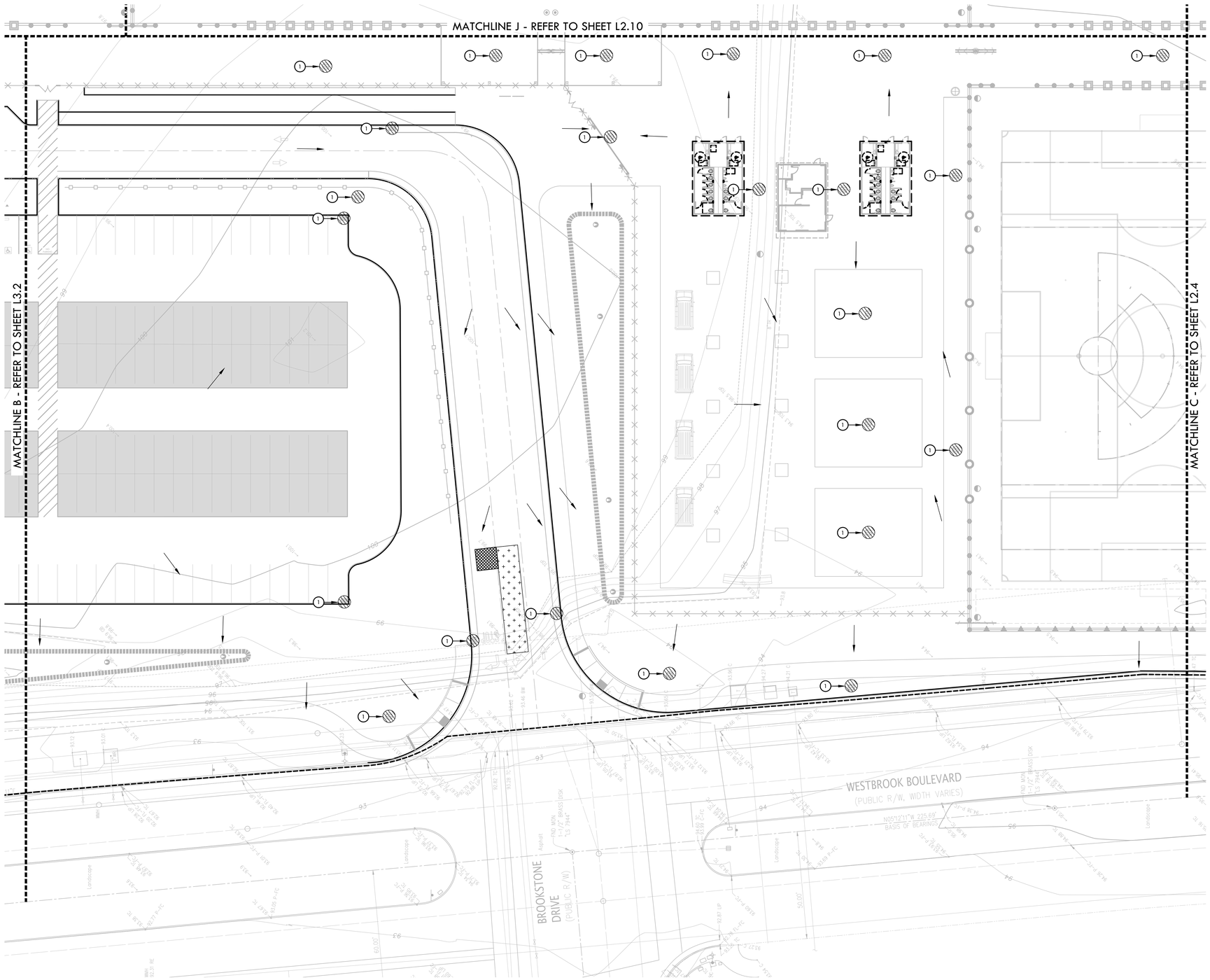
PLOT DATE: 04-29-22 PLOTTED BY: station46



NORTH

0' 10' 20' 40' 80'

EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL SHALL BE CONSTRUCTED DURING FIRST WEEK OF CONSTRUCTION.
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4. CONTRACTOR SHALL SWEEP STREETS AND PARKING AREAS AFFECTED BY CONSTRUCTION WITH STREET SWEEPER AS REQUIRED TO KEEP PAVING CLEAN OF CONSTRUCTION DEBRIS.

EROSION AND SEDIMENT CONTROL LEGEND

SYM.	DESCRIPTION	DET REF
1	FILTER FABRIC TO BE SECURELY ATTACHED TO DRAINAGE STRUCTURE TOP AND PERIMETER SILT FENCE	B,C L2.1
	LIMIT OF WORK	
	FILTER ROLL BARRIER	A L2.2
	CONSTRUCTION WASHOUT AREA - PROVIDE A WASHOUT BIN FOR CONSTRUCTION WASHOUT AND REMOVE AT END OF CONSTRUCTION.	C L2.2
	CONSTRUCTION STAGING AREA	
	STABILIZED CONSTRUCTION ENTRY	B L2.2
	DIRECTION OF SURFACE FLOW	

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SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

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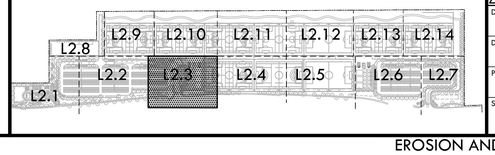
KEY MAP



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SHEET NO. L2.3	

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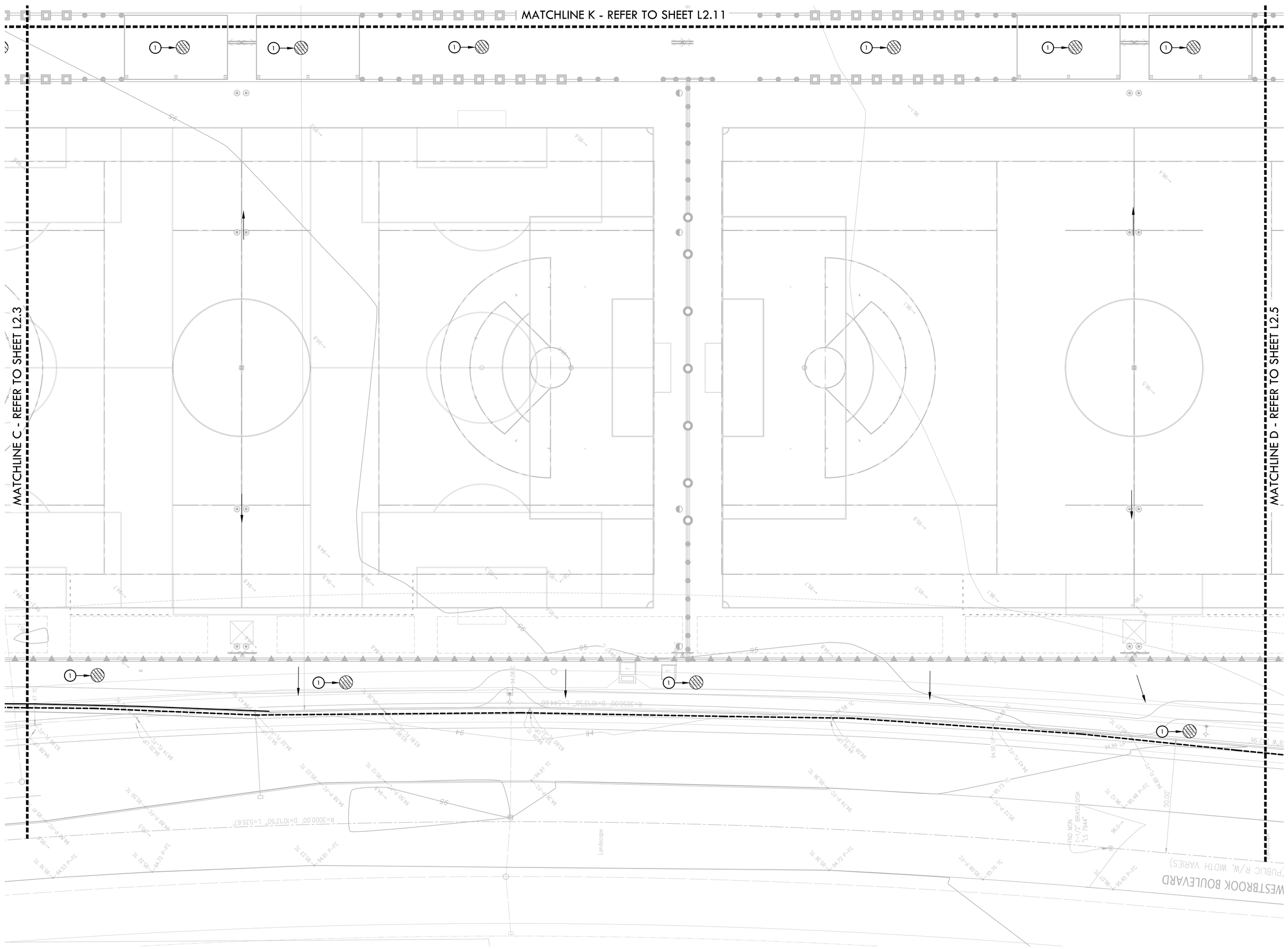

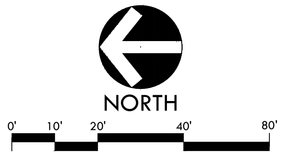

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EROSION AND SEDIMENT CONTROL LEGEND

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	DIRECTION OF SURFACE FLOW	

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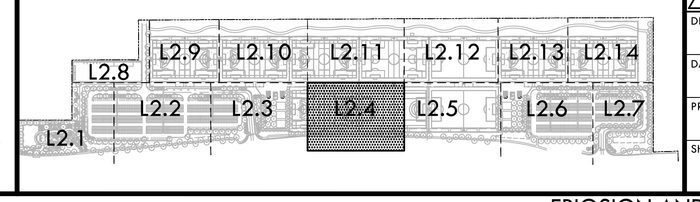

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SHEET NO. L2.4	

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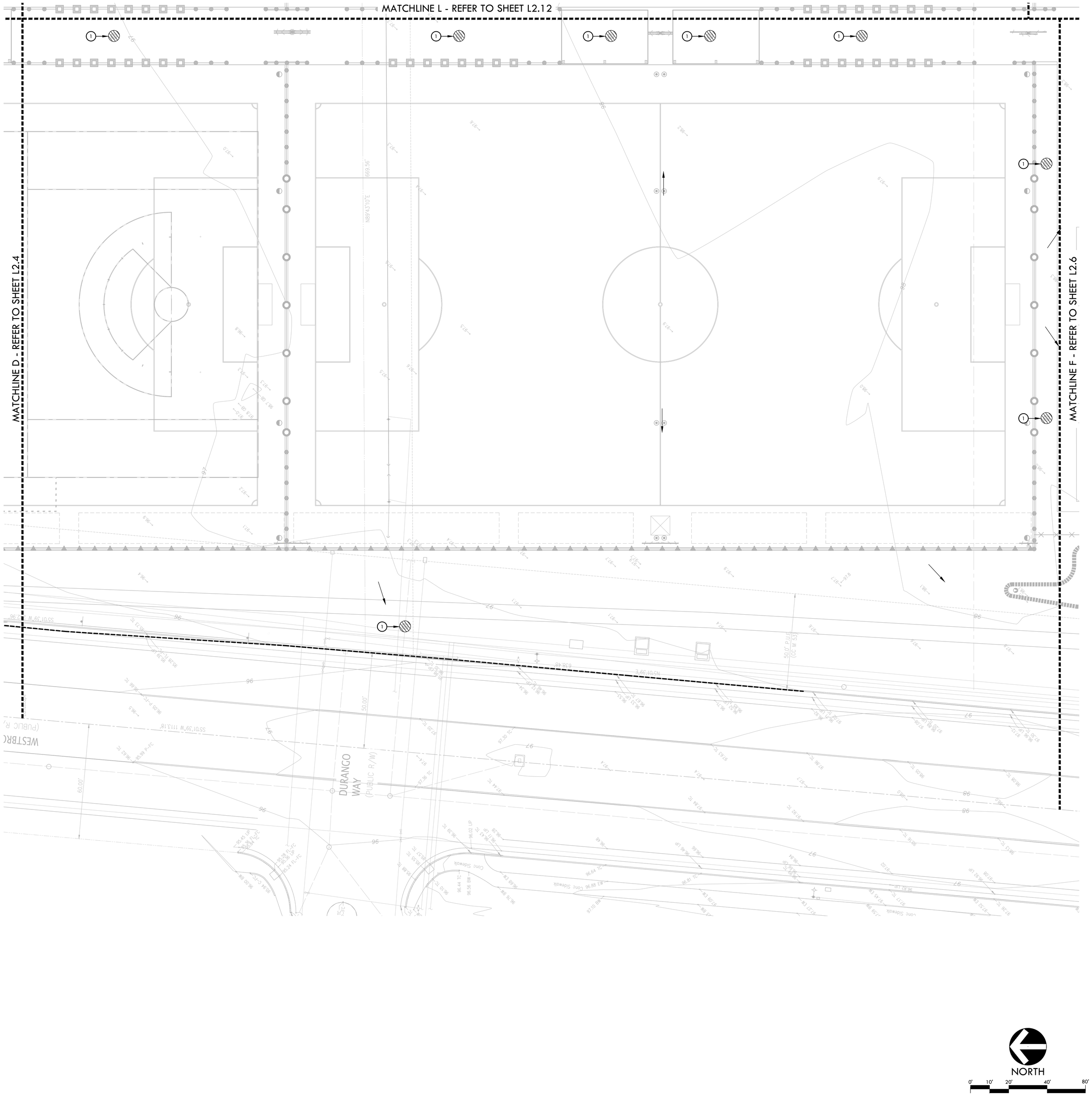

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	DIRECTION OF SURFACE FLOW	

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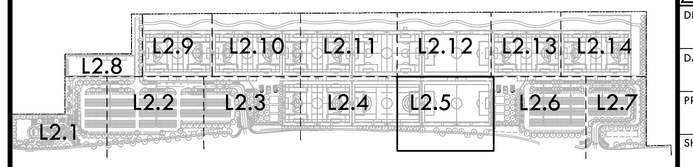

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SHEET TITLE
EROSION AND SEDIMENT CONTROL PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
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ROSEVILLE, CA 95747

SUBMITTAL	DATE
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SHEET NO. L2.5	

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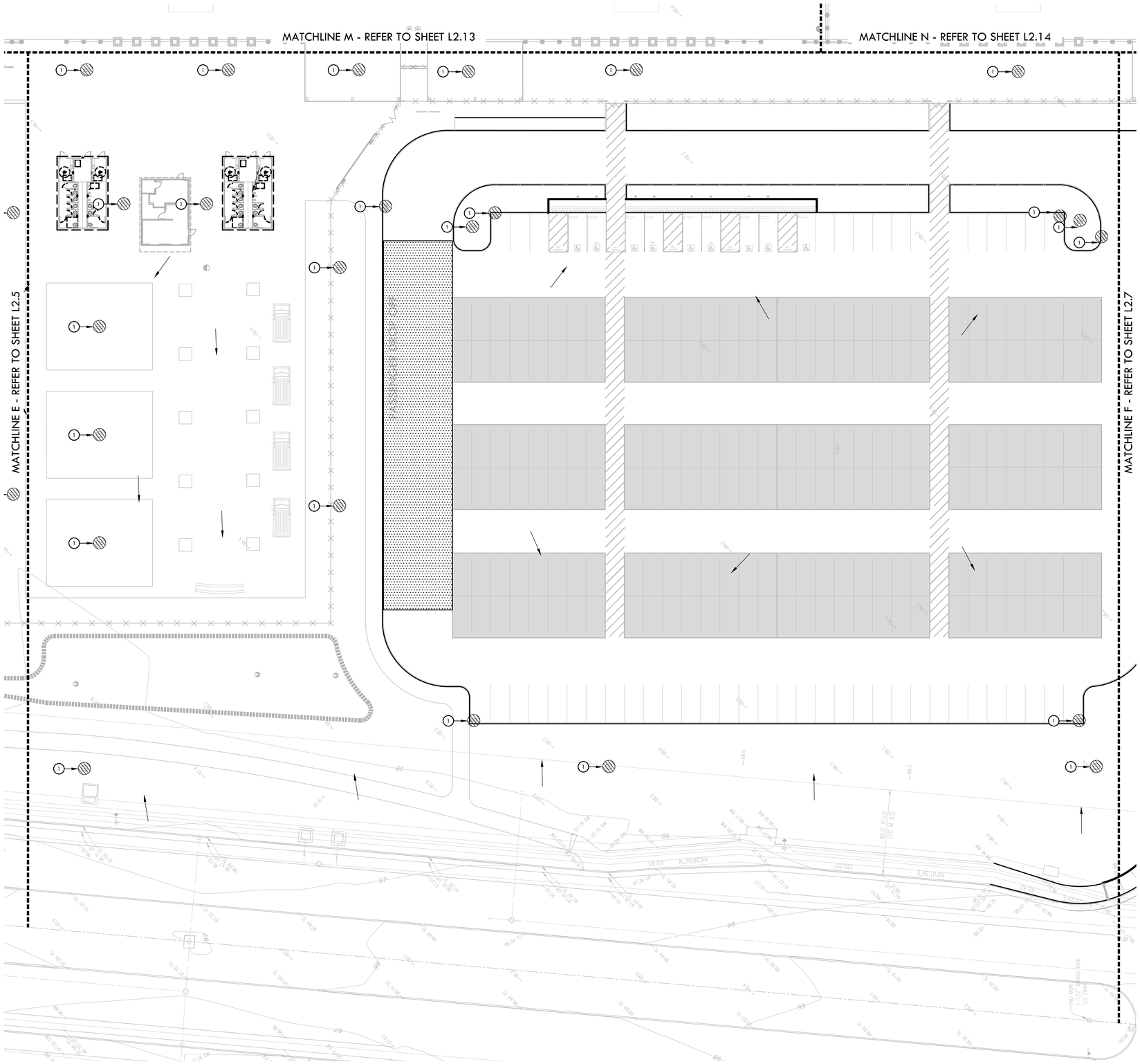
PLOT DATE: 04-28-22 PLOTTED BY: station49



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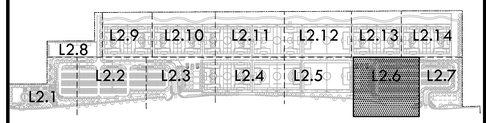
	DIRECTION OF SURFACE FLOW	

NORTH

0' 10' 20' 40' 80'

KEY MAP



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REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
EROSION AND SEDIMENT CONTROL PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
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ROSEVILLE, CA 95747

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04/29/2022	1"=20'-0"
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2103800	
SHEET NO.	
L2.6	

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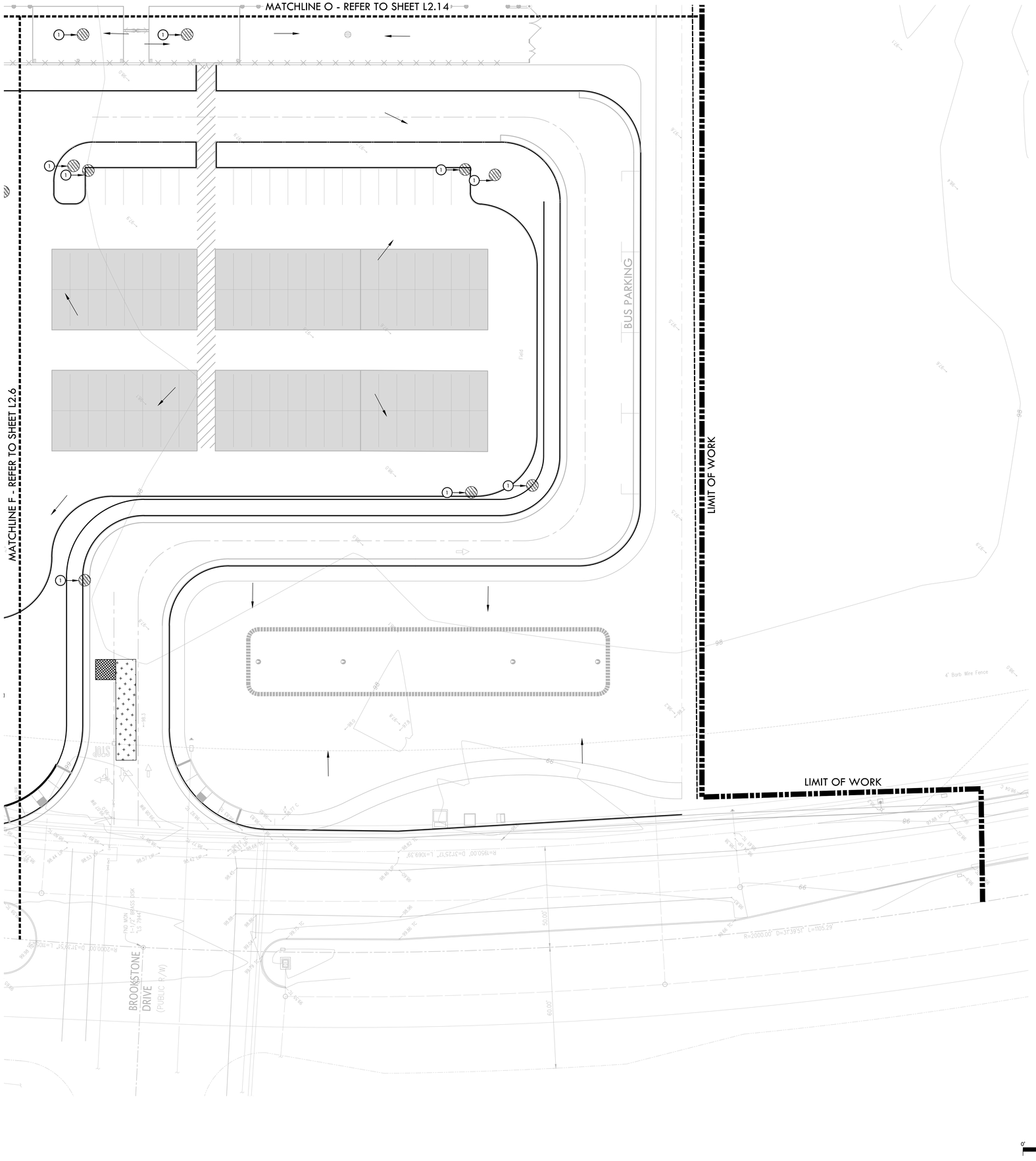
PLOT DATE: 04-29-22 PLOTTED BY: station46



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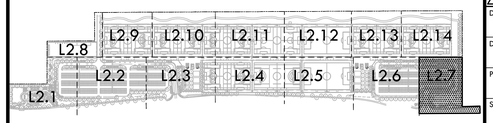
KEY MAP



NORTH

0' 10' 20' 40' 80'

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SHEET NO. L2.7

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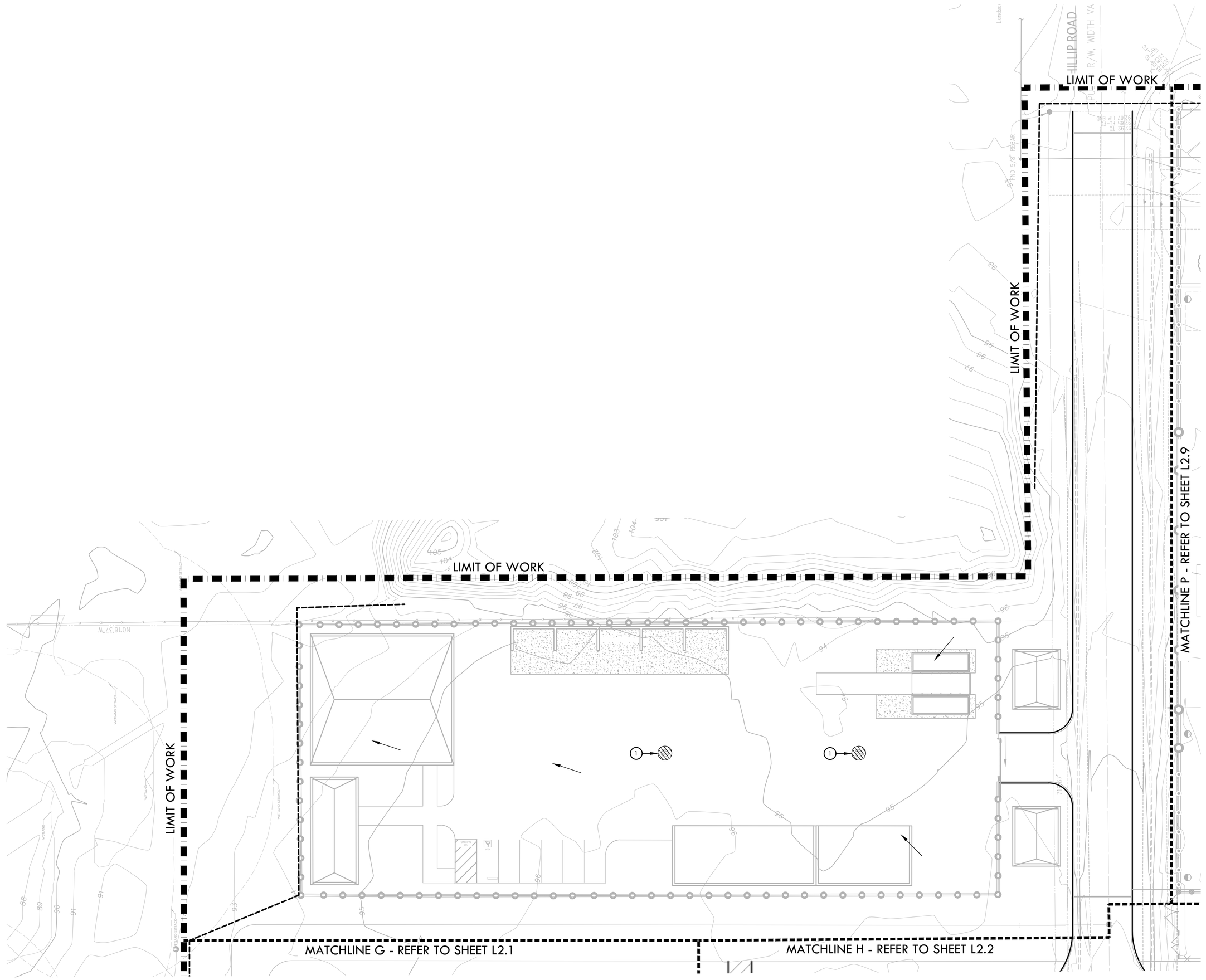
PLOT DATE: 04-28-22 PLOTTED BY: station49



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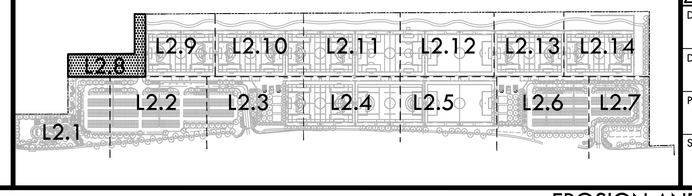

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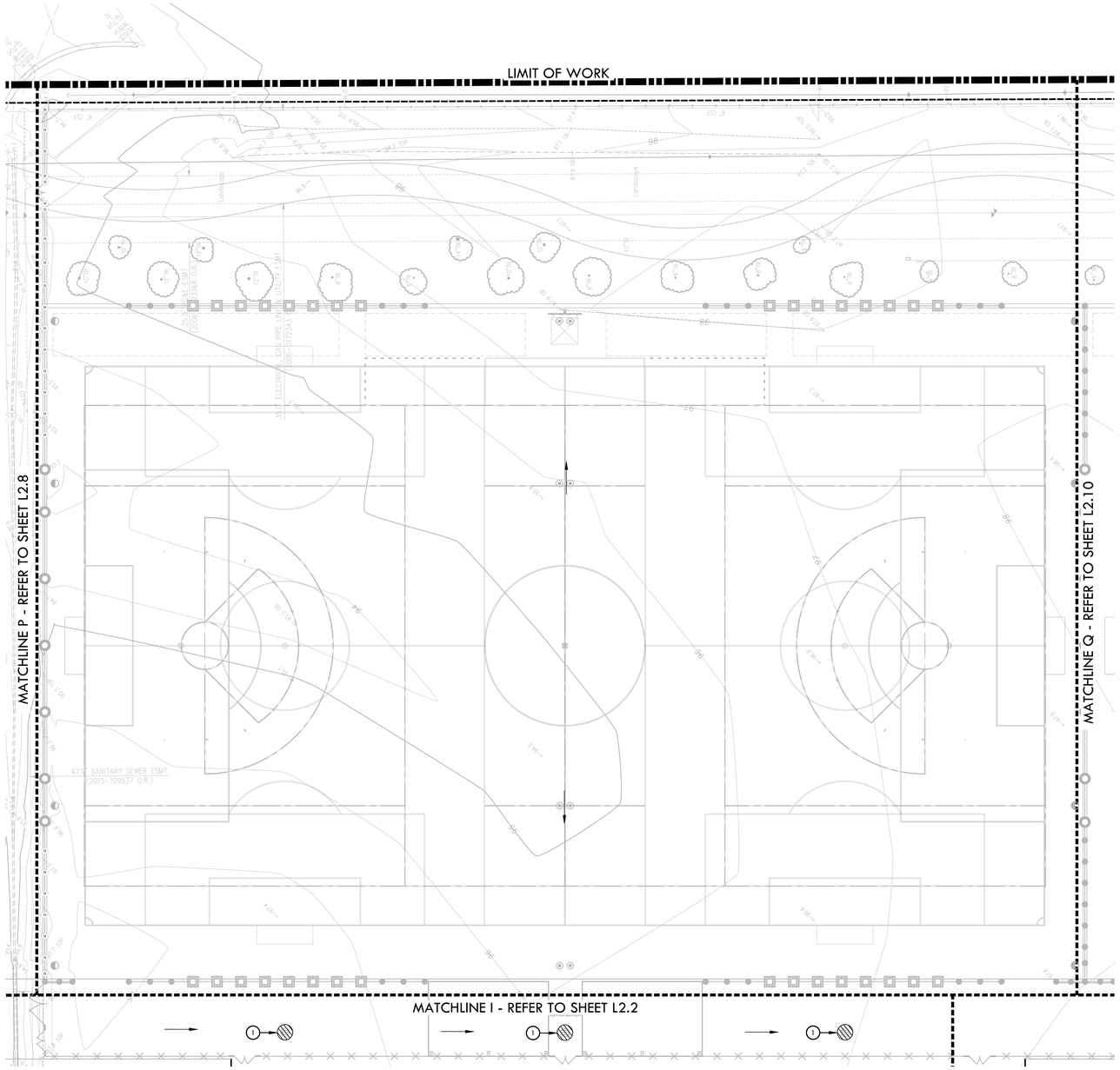

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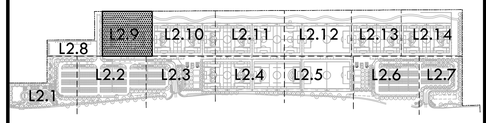

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1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
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CONSULTANT

SHEET TITLE
EROSION AND SEDIMENT CONTROL PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

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DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"

PROJ. NO. 2103800

SHEET NO. L2.9

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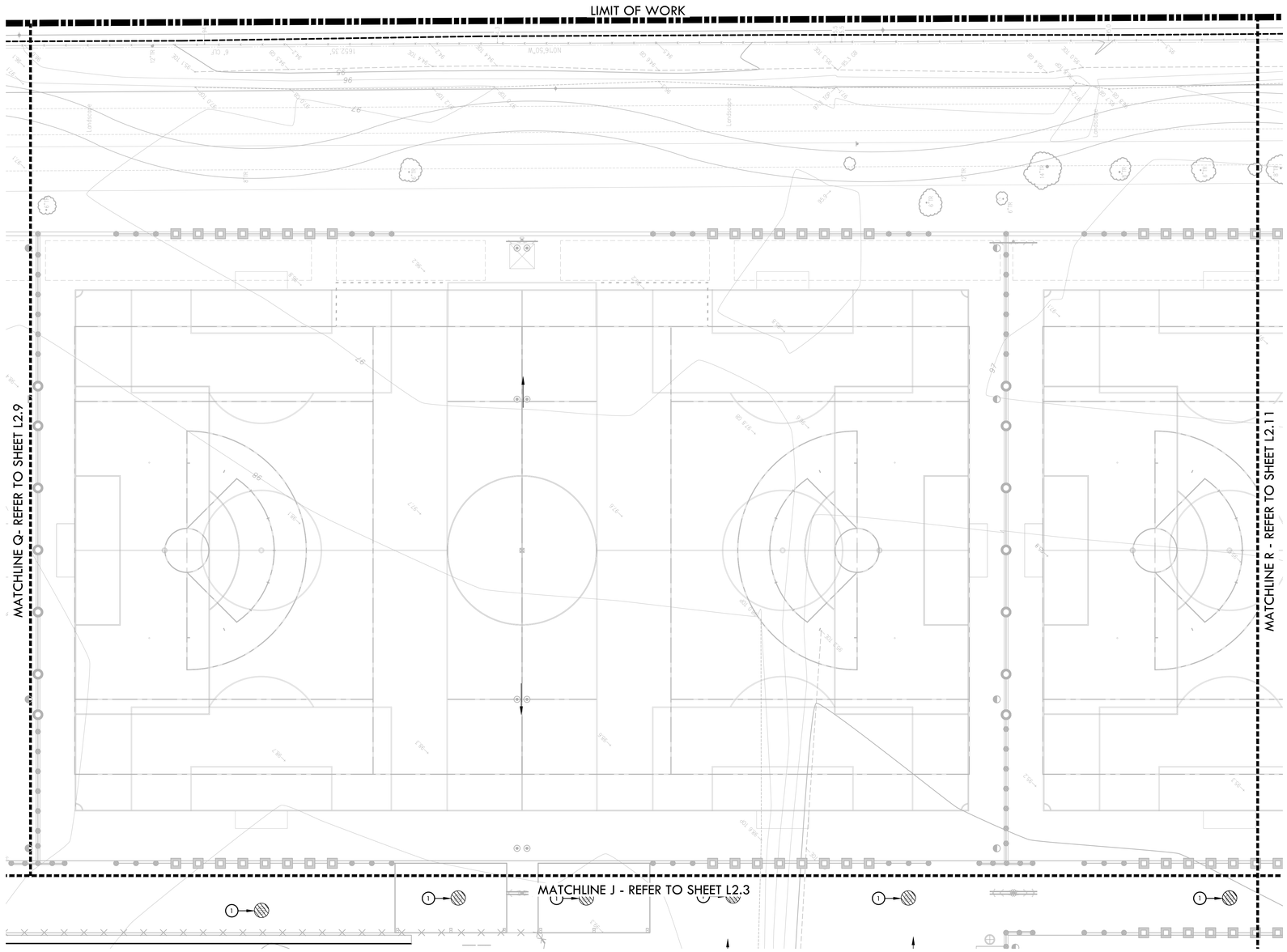

EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL SHALL BE CONSTRUCTED DURING FIRST WEEK OF CONSTRUCTION.
2. EROSION AND SEDIMENT CONTROL SHALL REMAIN THROUGHOUT CONSTRUCTION AND BE REMOVED AND DISPOSED OF DURING MAINTENANCE PERIOD.
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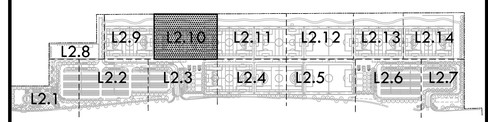
EROSION AND SEDIMENT CONTROL LEGEND

SYM.	DESCRIPTION	DET REF
1	FILTER FABRIC TO BE SECURELY ATTACHED TO DRAINAGE STRUCTURE TOP AND PERIMETER SILT FENCE	B,C 12.1
	LIMIT OF WORK	
	FILTER ROLL BARRIER	A 12.2
	CONSTRUCTION WASHOUT AREA - PROVIDE A WASHOUT BIN FOR CONSTRUCTION WASHOUT AND REMOVE AT END OF CONSTRUCTION.	C 12.2
	CONSTRUCTION STAGING AREA	
	STABILIZED CONSTRUCTION ENTRY	B 12.2
	DIRECTION OF SURFACE FLOW	

NORTH
0' 10' 20' 40' 80'

KEY MAP



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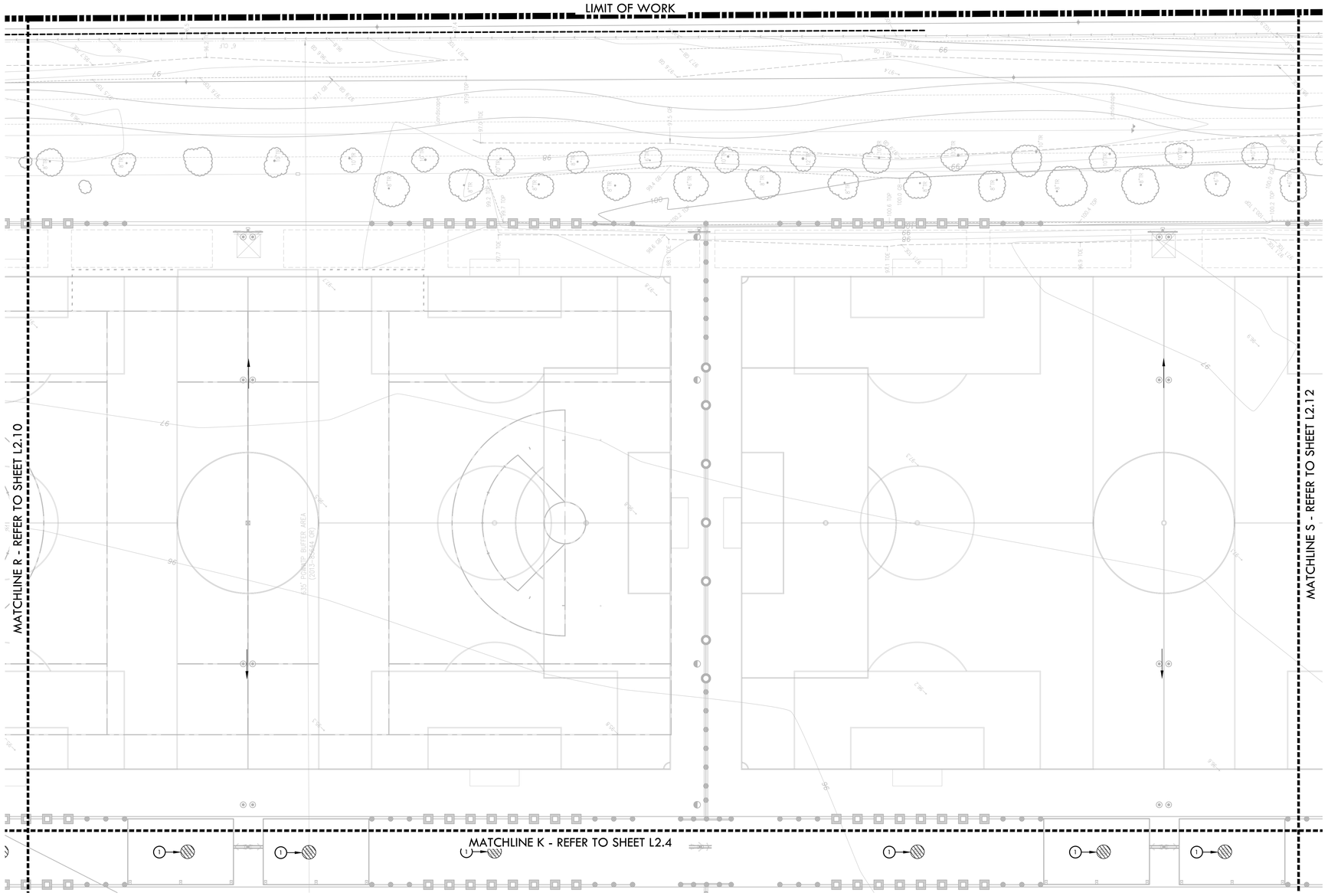

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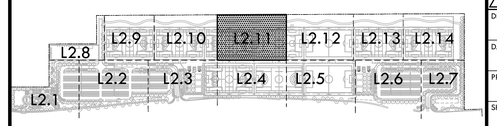

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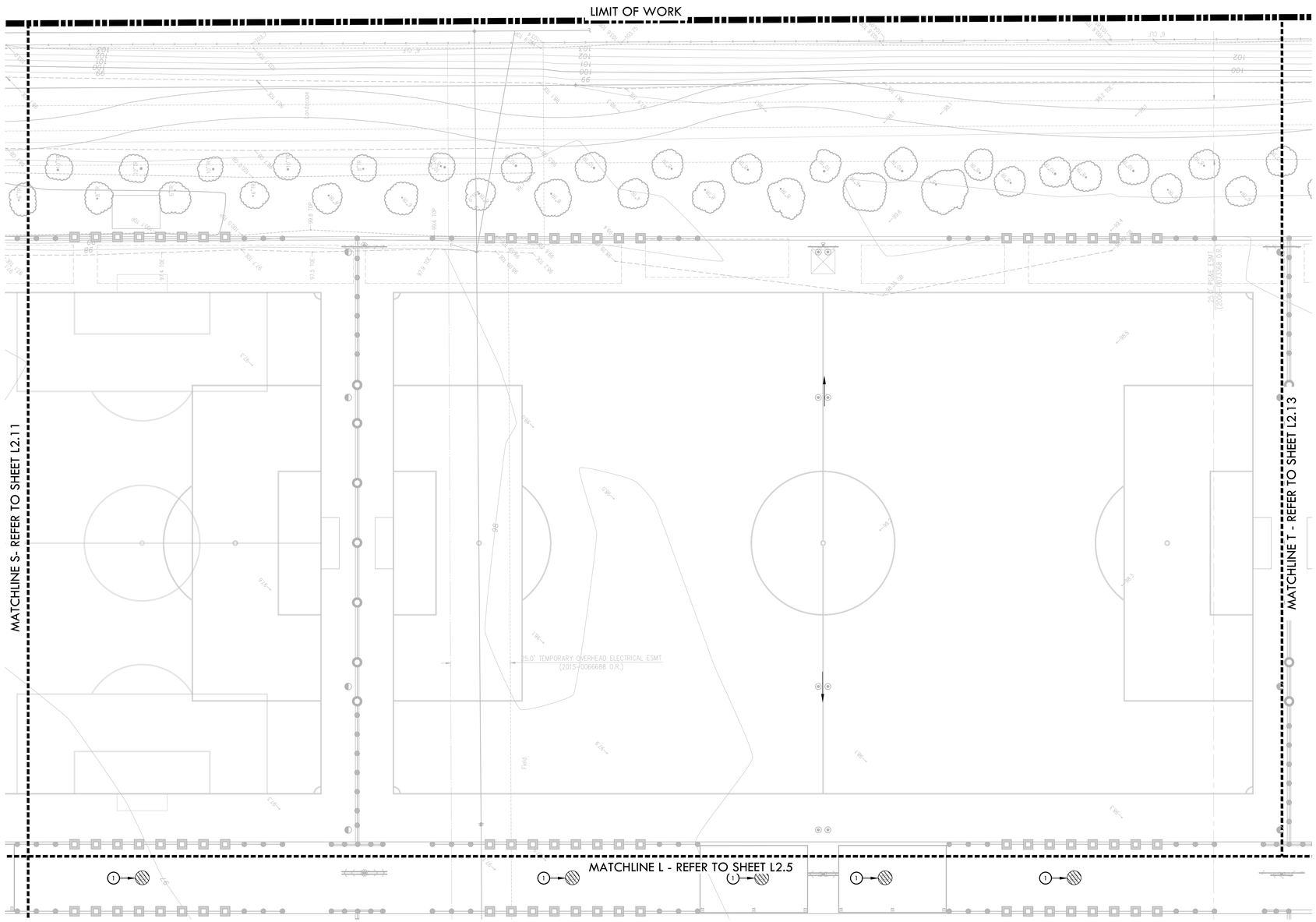

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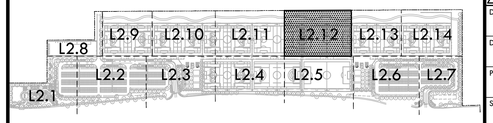

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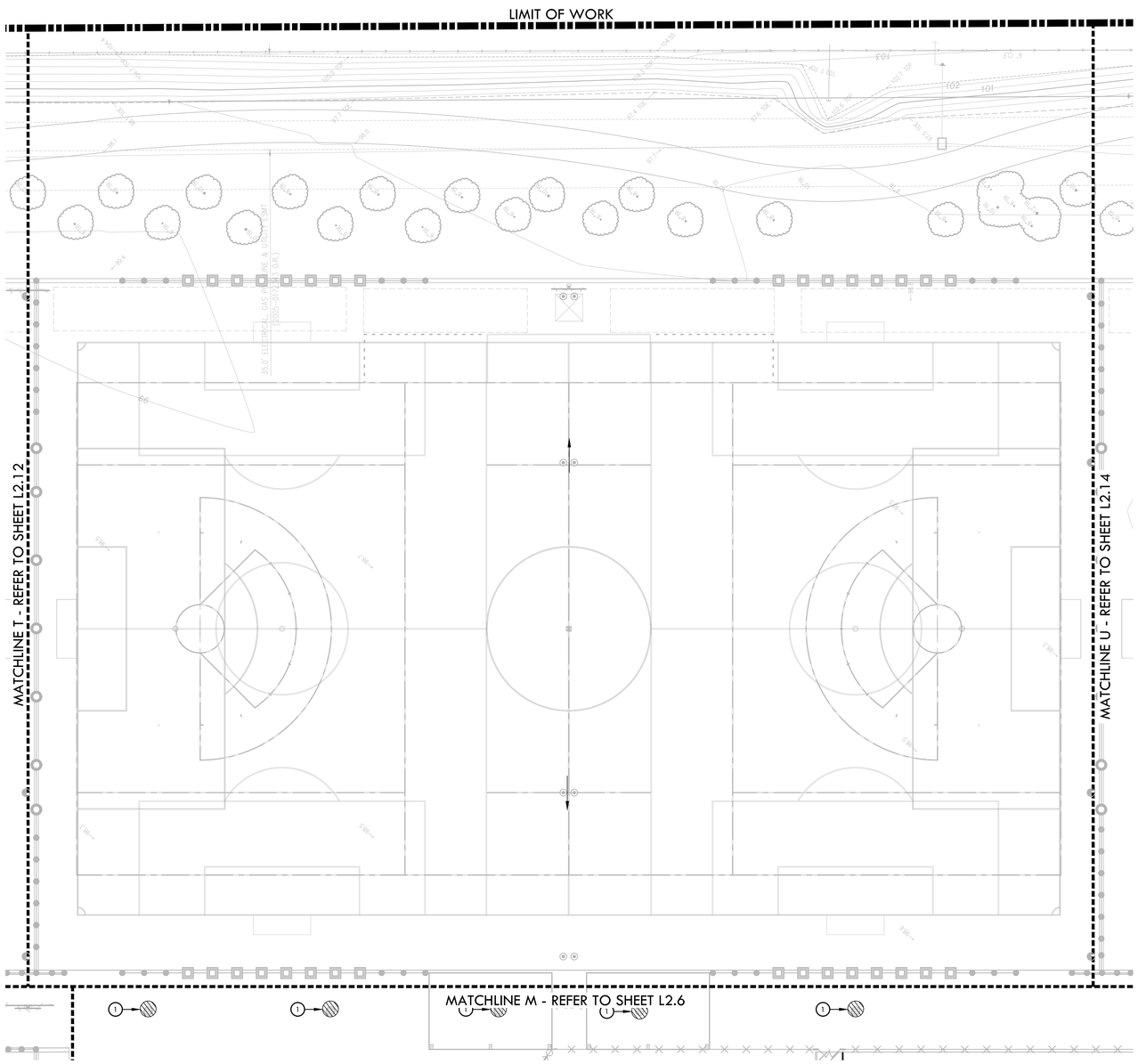

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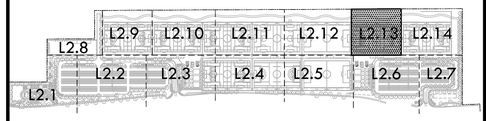
KEY MAP



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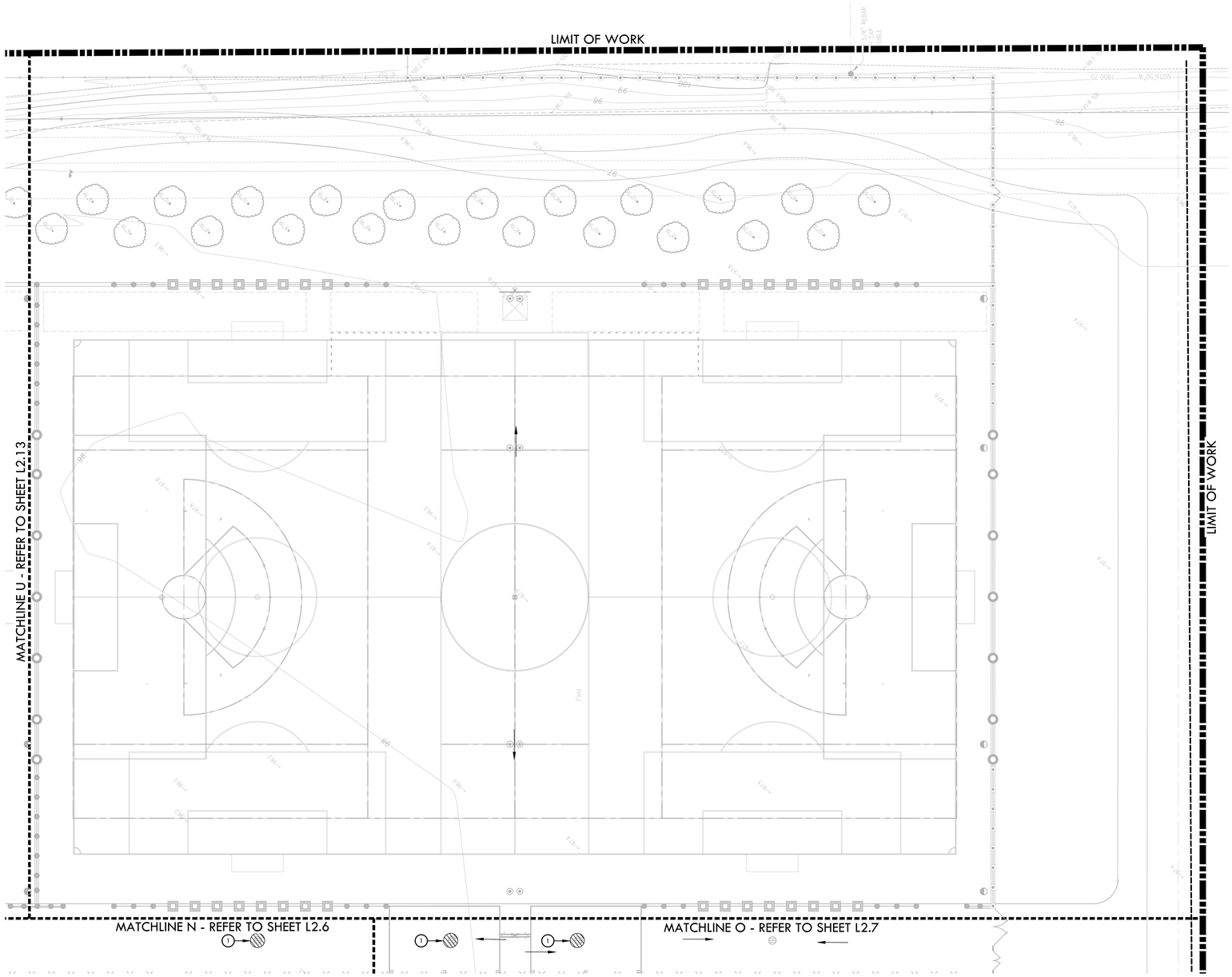

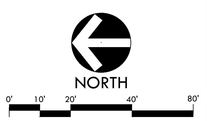

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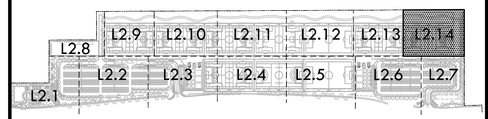

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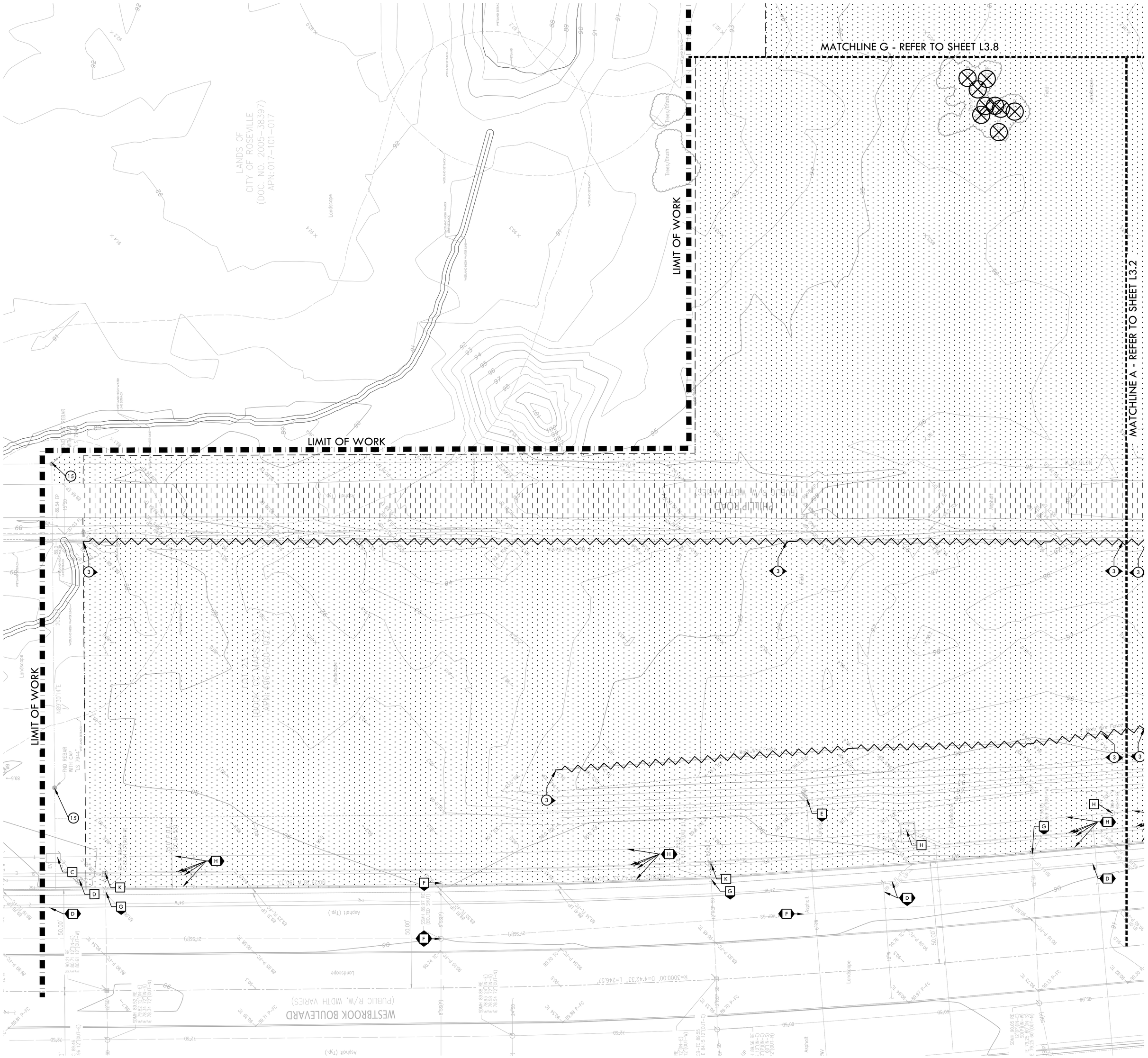

DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY.
3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREA LIMIT OF WORK. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). ASHALL INCLUDE FULL HEIGHT FIRREN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIPLINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM FOR PLANT MATERIAL THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

DEMOLITION LEGEND

SYM.	DESCRIPTION
	LIMIT OF WORK
	LIMIT OF CLEAR AND GRUB/CONSTRUCTION FENCING
XX	KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED
XX	KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED
	EXISTING SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. EXISTING TOP SOIL SHALL BE REMOVED FROM SITE PER GEOTECHINCAL REPORT. REFER TO SPECIFICATIONS FOR INFORMATION. REMOVE EXCESS SOIL FROM SITE.
	EXISTING HARDSCAPE PAVING INCLUDING BASE MATERIAL TO BE DEMOLISHED AND REMOVED. FOR CONCRETE PAVING, CONTRACTOR TO SAWCUT AT NEAREST EXPANSION/SCORE JOINT.
	REMOVE EXISTING TREES
P	TREE TO REMAIN AND BE PROTECTED AND PRUNED, REFER TO SPECIFICATIONS, SECTION 02050 - EXISTING VEGETATION PROTECTION
	DEMOLISH AND REMOVE EXISTING FENCE, INCLUDING GATES, POSTS, HARDWARE, FABRIC AND FOOTINGS
	SAWCUT EXISTING ASPHALT PAVING

DEMOLITION ITEMS

ITEMS TO BE DEMOLISHED AND/OR REMOVED

1	CURB AND ALL BASE MATERIAL TO BE DEMOLISHED AND REMOVED.
2	ELECTRICAL ITEMS TO BE DEMOLISHED AND REMOVED. REFER TO ELECTRICAL PLANS.
3	FENCE AND FOOTINGS BE DEMOLISHED AND REMOVED.
4	DRAIN STRUCTURES TO BE DEMOLISHED AND REMOVED.
5	NOT USED
6	BOLLARD AND FOOTING TO BE DEMOLISHED AND REMOVED.
7	CONCRETE PAD TO BE DEMOLISHED AND REMOVED.
8	POWER POLE AND OVERHEAD LINE WILL BE REMOVED BY OTHERS PRIOR TO START OF PROJECT.
9	WATER UTILITY AND ASSOCIATED ITEMS TO BE DEMOLISHED AND REMOVED.
10	SIGN, POST AND FOOTING TO BE DEMOLISHED AND REMOVED.
11	STREET LIGHT, POST, AND FOOTING TO BE REMOVED AND RELOCATED.
12	TRAFFIC SIGNAL BOX TO BE DEMOLISHED AND REMOVED.
13	UTILITY BOX TO BE REPLACED WITH TRAFFIC RATED BOX AND LID.
14	CABLE TV BOX TO BE REMOVED AND RELOCATED.
15	MONUMENT TO BE DEMOLISHED AND REMOVED.

ITEMS TO BE PROTECTED OR RELOCATED

A	EDGEBANDS, FENCING, GATES, CURBS &/OR GUTTERS TO REMAIN & BE PROTECTED.
B	HARDSCAPE TO REMAIN AND BE PROTECTED.
C	ELECTRICAL ITEMS TO REMAIN AND BE PROTECTED. REFER TO ELECTRICAL PLANS
D	DOMESTIC WATER LINE AND/OR VALVE AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
E	RECYCLED WATER LINE AND/OR VALVE AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
F	SANITARY SEWER LINE AND/OR STRUCTURES TO REMAIN AND BE PROTECTED.
G	STORM DRAIN LINE AND/OR STRUCTURES TO REMAIN AND BE PROTECTED.
H	UTILITY LINES AND/OR STRUCTURES TO REMAIN AN BE PROTECTED.
I	NOT USED
J	BOLLARD AND/OR POST TO REMAIN AND BE PROTECTED.
K	STREET LIGHT AND/OR POWER POLE TO REMAIN AND BE PROTECTED
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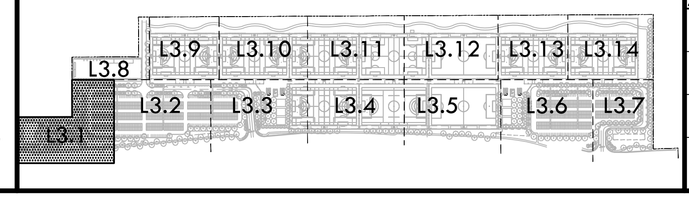
KEY MAP



NORTH

0' 10' 20' 40' 80'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
DEMOLITION PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE 1"=20'-0"
PROJ. NO. 2103800	
SHEET NO. L3.1	

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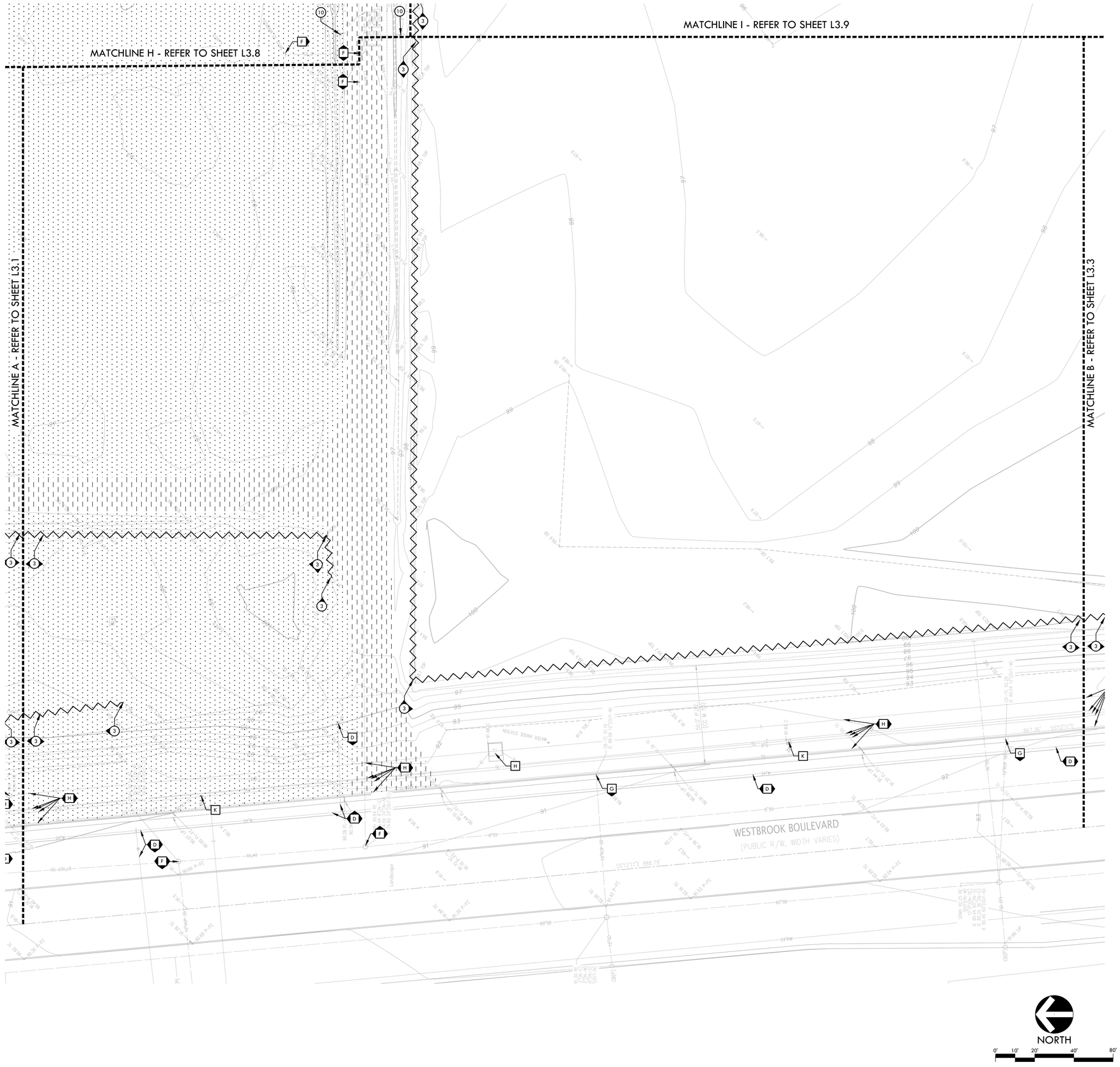

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8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM FOR PLANT MATERIAL THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

DEMOLITION LEGEND

SYM.	DESCRIPTION
	LIMIT OF WORK
	LIMIT OF CLEAR AND GRUB/CONSTRUCTION FENCING
(XX)	KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED
[XX]	KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED
	EXISTING SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. EXISTING TOP SOIL SHALL BE REMOVED FROM SITE PER GEOTECHINCAL REPORT. REFER TO SPECIFICATIONS FOR INFORMATION. REMOVE EXCESS SOIL FROM SITE.
	EXISTING HARDSCAPE PAVING INCLUDING BASE MATERIAL TO BE DEMOLISHED AND REMOVED. FOR CONCRETE PAVING, CONTRACTOR TO SAWCUT AT NEAREST EXPANSION/SCORE JOINT.
	REMOVE EXISTING TREES
P	TREE TO REMAIN AND BE PROTECTED AND PRUNED, REFER TO SPECIFICATIONS, SECTION 02050 - EXISTING VEGETATION PROTECTION
	DEMOLISH AND REMOVE EXISTING FENCE, INCLUDING GATES, POSTS, HARDWARE, FABRIC AND FOOTINGS
	SAWCUT EXISTING ASPHALT PAVING

DEMOLITION ITEMS

ITEMS TO BE DEMOLISHED AND/OR REMOVED

1	CURB AND ALL BASE MATERIAL TO BE DEMOLISHED AND REMOVED.
2	ELECTRICAL ITEMS TO BE DEMOLISHED AND REMOVED. REFER TO ELECTRICAL PLANS.
3	FENCE AND FOOTINGS BE DEMOLISHED AND REMOVED.
4	DRAIN STRUCTURES TO BE DEMOLISHED AND REMOVED.
5	NOT USED
6	BOLLARD AND FOOTING TO BE DEMOLISHED AND REMOVED.
7	CONCRETE PAD TO BE DEMOLISHED AND REMOVED.
8	POWER POLE AND OVERHEAD LINE WILL BE REMOVED BY OTHERS PRIOR TO START OF PROJECT.
9	WATER UTILITY AND ASSOCIATED ITEMS TO BE DEMOLISHED AND REMOVED.
10	SIGN, POST AND FOOTING TO BE DEMOLISHED AND REMOVED.
11	STREET LIGHT, POST, AND FOOTING TO BE REMOVED AND RELOCATED.
12	TRAFFIC SIGNAL BOX TO BE DEMOLISHED AND REMOVED.
13	UTILITY BOX TO BE REPLACED WITH TRAFFIC RATED BOX AND LID.
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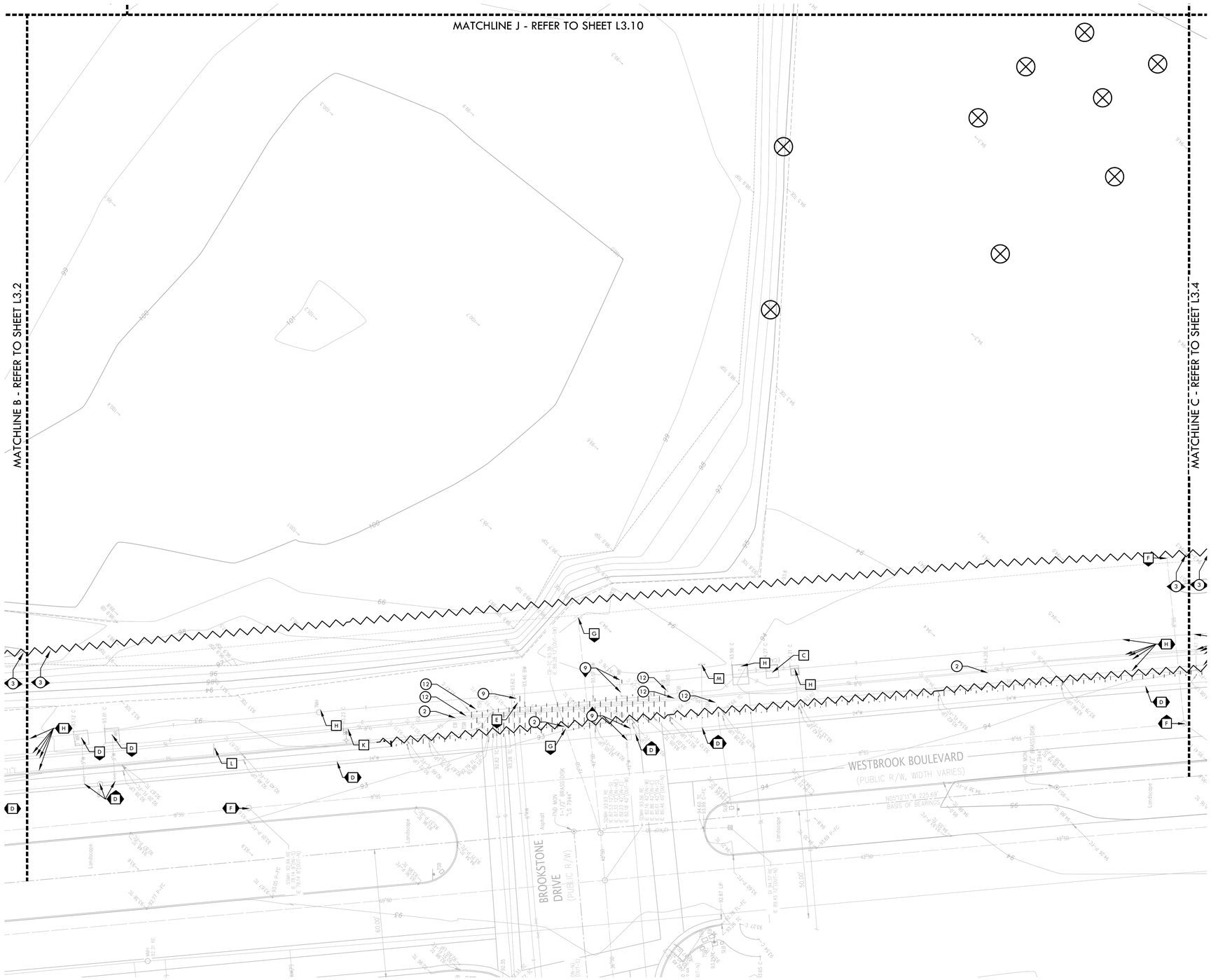
PLOT DATE: 04-28-22 PLOTTED BY: station46



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DEMOLITION LEGEND

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1E	KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED
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	REMOVE EXISTING TREES
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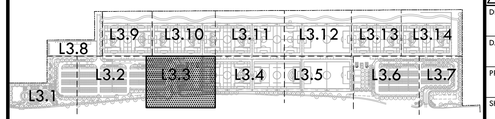

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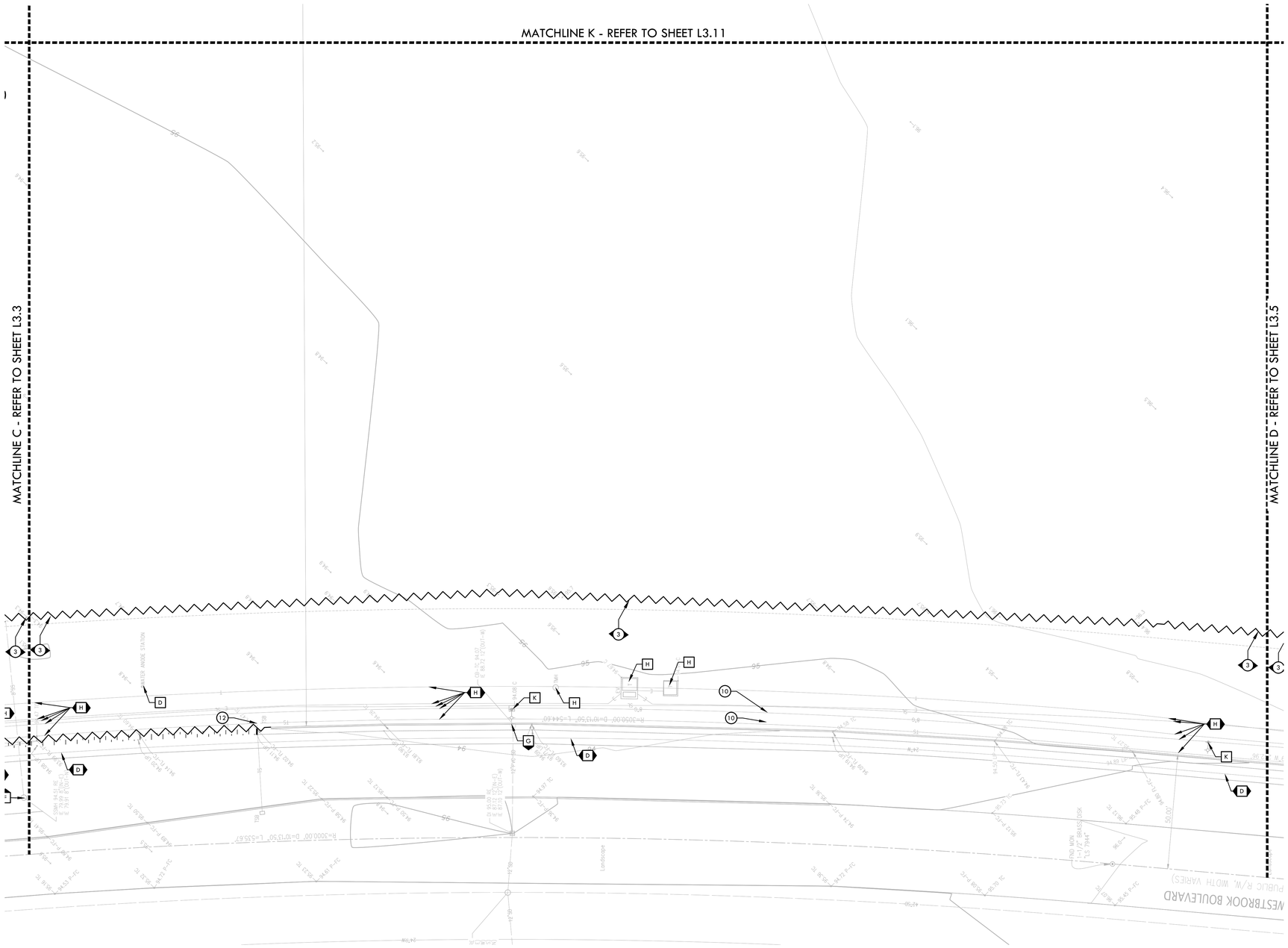

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DEMOLITION ITEMS

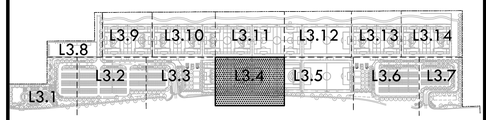
ITEMS TO BE DEMOLISHED AND/OR REMOVED

1	CURB AND ALL BASE MATERIAL TO BE DEMOLISHED AND REMOVED.
2	ELECTRICAL ITEMS TO BE DEMOLISHED AND REMOVED. REFER TO ELECTRICAL PLANS.
3	FENCE AND FOOTINGS BE DEMOLISHED AND REMOVED.
4	DRAIN STRUCTURES TO BE DEMOLISHED AND REMOVED.
5	NOT USED
6	BOLLARD AND FOOTING TO BE DEMOLISHED AND REMOVED.
7	CONCRETE PAD TO BE DEMOLISHED AND REMOVED.
8	POWER POLE AND OVERHEAD LINE WILL BE REMOVED BY OTHERS PRIOR TO START OF PROJECT.
9	WATER UTILITY AND ASSOCIATED ITEMS TO BE DEMOLISHED AND REMOVED.
10	SIGN, POST AND FOOTING TO BE DEMOLISHED AND REMOVED.
11	STREET LIGHT, POST, AND FOOTING TO BE REMOVED AND RELOCATED.
12	TRAFFIC SIGNAL BOX TO BE DEMOLISHED AND REMOVED.
13	UTILITY BOX TO BE REPLACED WITH TRAFFIC RATED BOX AND LID.
14	CABLE TV BOX TO BE REMOVED AND RELOCATED.
15	MONUMENT TO BE DEMOLISHED AND REMOVED.

ITEMS TO BE PROTECTED OR RELOCATED

A	EDGEBANDS, FENCING, GATES, CURBS &/OR GUTTERS TO REMAIN & BE PROTECTED.
B	HARDSCAPE TO REMAIN AND BE PROTECTED.
C	ELECTRICAL ITEMS TO REMAIN AND BE PROTECTED. REFER TO ELECTRICAL PLANS
D	DOMESTIC WATER LINE AND/OR VALVE AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
E	RECYCLED WATER LINE AND/OR VALVE AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
F	SANITARY SEWER LINE AND/OR STRUCTURES TO REMAIN AND BE PROTECTED.
G	STORM DRAIN LINE AND/OR STRUCTURES TO REMAIN AND BE PROTECTED.
H	UTILITY LINES AND/OR STRUCTURES TO REMAIN AN BE PROTECTED.
I	NOT USED
J	BOLLARD AND/OR POST TO REMAIN AND BE PROTECTED.
K	STREET LIGHT AND/OR POWER POLE TO REMAIN AND BE PROTECTED
L	SIGN, POST, AND ACCOMPANYING ITEMS TO REMAIN AND BE PROTECTED.
M	FIRE HYDRANT TO REMAIN AND BE PROTECTED.
N	MONUMENT TO REMAIN AND BE PROTECTED.
O	POWER POLE TO REMAIN AND BE PROTECTED

KEY MAP



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1843 Iron Point Rd. Suite 140
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CONSULTANT

SHEET TITLE
DEMOLITION PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE 1"=20'-0"
PROJ. NO. 2103800	
SHEET NO. L3.4	

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PLOT DATE: 04-28-22 PLOTTED BY: station46

MATCHLINE L - REFER TO SHEET L3.12

MATCHLINE D - REFER TO SHEET L3.4

MATCHLINE F - REFER TO SHEET L3.6

DURANGO WAY (PUBLIC R/W)

WESTBROOK (PUBLIC R/W)

NORTH

0' 10' 20' 40' 80'

DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY.
3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREA LIMIT OF WORK. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). ASHALL INCLUDE FULL HEIGHT FIFREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIPLINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM FOR PLANT MATERIAL THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

DEMOLITION LEGEND

SYM.	DESCRIPTION
	LIMIT OF WORK
	LIMIT OF CLEAR AND GRUB/CONSTRUCTION FENCING
(XX)	KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED
[XX]	KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED
	EXISTING SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. EXISTING TOP SOIL SHALL BE REMOVED FROM SITE PER GEOTECHINCAL REPORT. REFER TO SPECIFICATIONS FOR INFORMATION. REMOVE EXCESS SOIL FROM SITE.
	EXISTING HARDSCAPE PAVING INCLUDING BASE MATERIAL TO BE DEMOLISHED AND REMOVED. FOR CONCRETE PAVING, CONTRACTOR TO SAWCUT AT NEAREST EXPANSION/SCORE JOINT.
	REMOVE EXISTING TREES
(P)	TREE TO REMAIN AND BE PROTECTED AND PRUNED, REFER TO SPECIFICATIONS, SECTION 02050 - EXISTING VEGETATION PROTECTION
	DEMOLISH AND REMOVE EXISTING FENCE, INCLUDING GATES, POSTS, HARDWARE, FABRIC AND FOOTINGS
	SAWCUT EXISTING ASPHALT PAVING

DEMOLITION ITEMS

ITEMS TO BE DEMOLISHED AND/OR REMOVED

(1)	CURB AND ALL BASE MATERIAL TO BE DEMOLISHED AND REMOVED.
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(3)	FENCE AND FOOTINGS BE DEMOLISHED AND REMOVED.
(4)	DRAIN STRUCTURES TO BE DEMOLISHED AND REMOVED.
(5)	NOT USED
(6)	BOLLARD AND FOOTING TO BE DEMOLISHED AND REMOVED.
(7)	CONCRETE PAD TO BE DEMOLISHED AND REMOVED.
(8)	POWER POLE AND OVERHEAD LINE WILL BE REMOVED BY OTHERS PRIOR TO START OF PROJECT.
(9)	WATER UTILITY AND ASSOCIATED ITEMS TO BE DEMOLISHED AND REMOVED.
(10)	SIGN, POST AND FOOTING TO BE DEMOLISHED AND REMOVED.
(11)	STREET LIGHT, POST, AND FOOTING TO BE REMOVED AND RELOCATED.
(12)	TRAFFIC SIGNAL BOX TO BE DEMOLISHED AND REMOVED.
(13)	UTILITY BOX TO BE REPLACED WITH TRAFFIC RATED BOX AND LID.
(14)	CABLE TV BOX TO BE REMOVED AND RELOCATED.
(15)	MONUMENT TO BE DEMOLISHED AND REMOVED.

ITEMS TO BE PROTECTED OR RELOCATED

[A]	EDGEBANDS, FENCING, GATES, CURBS &/OR GUTTERS TO REMAIN & BE PROTECTED.
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[H]	UTILITY LINES AND/OR STRUCTURES TO REMAIN AN BE PROTECTED.
[I]	NOT USED
[J]	BOLLARD AND/OR POST TO REMAIN AND BE PROTECTED.
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[L]	SIGN, POST, AND ACCOMPANYING ITEMS TO REMAIN AND BE PROTECTED.
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KEY MAP



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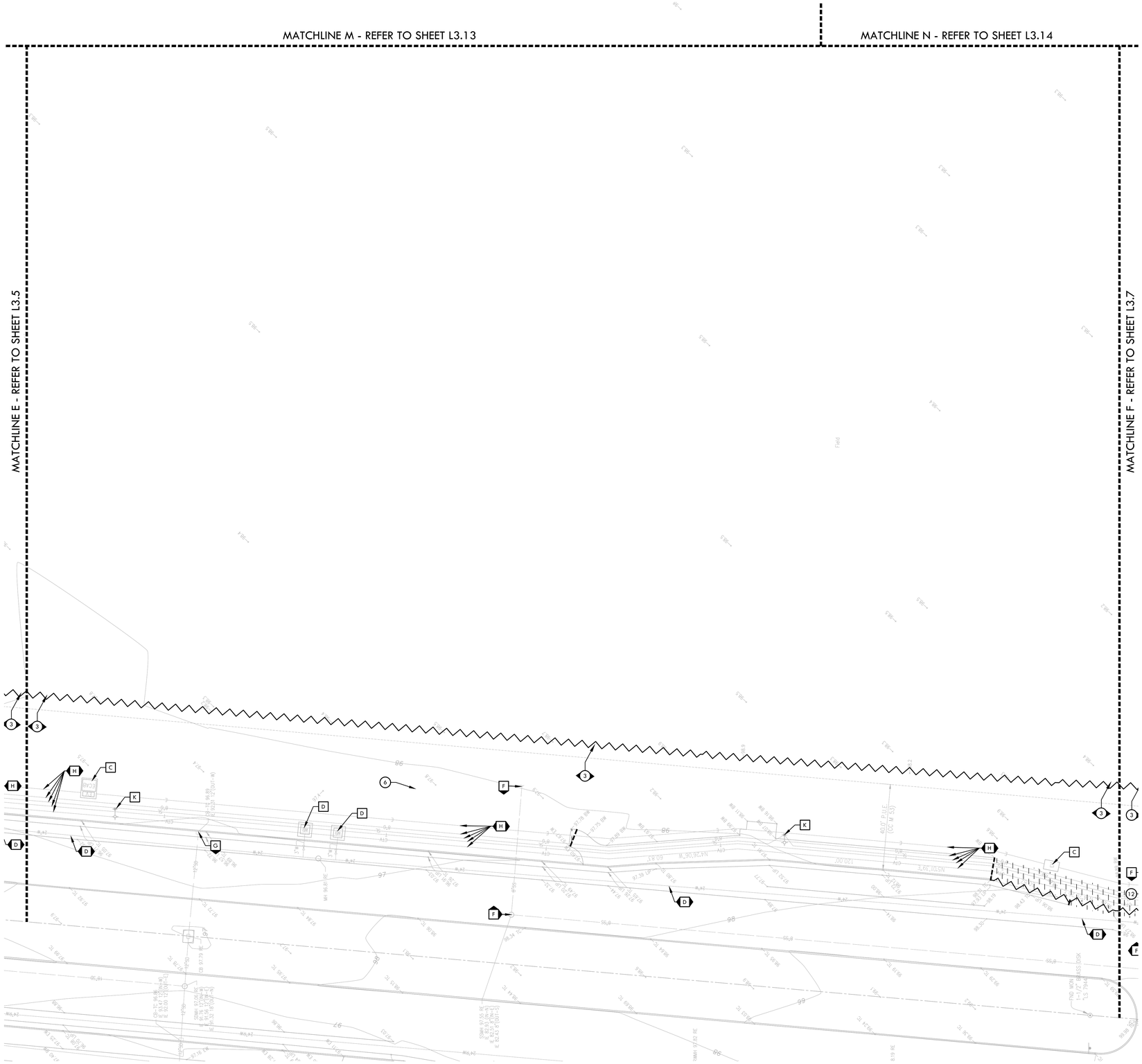

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DEMOLITION LEGEND

SYM.	DESCRIPTION
	LIMIT OF WORK
	LIMIT OF CLEAR AND GRUB/CONSTRUCTION FENCING
12	KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED
12	KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED
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P	TREE TO REMAIN AND BE PROTECTED AND PRUNED, REFER TO SPECIFICATIONS, SECTION 02050 - EXISTING VEGETATION PROTECTION
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8. POWER POLE AND OVERHEAD LINE WILL BE REMOVED BY OTHERS PRIOR TO START OF PROJECT.
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10. SIGN, POST AND FOOTING TO BE DEMOLISHED AND REMOVED.
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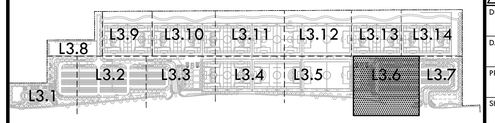
KEY MAP



NORTH

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SYM.	DESCRIPTION
	LIMIT OF WORK
	LIMIT OF CLEAR AND GRUB/CONSTRUCTION FENCING
01	KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED
01	KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED
	EXISTING SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. EXISTING TOP SOIL SHALL BE REMOVED FROM SITE PER GEOTECHINCAL REPORT. REFER TO SPECIFICATIONS FOR INFORMATION. REMOVE EXCESS SOIL FROM SITE.
	EXISTING HARDSCAPE PAVING INCLUDING BASE MATERIAL TO BE DEMOLISHED AND REMOVED. FOR CONCRETE PAVING, CONTRACTOR TO SAWCUT AT NEAREST EXPANSION/SCORE JOINT.
	REMOVE EXISTING TREES
P	TREE TO REMAIN AND BE PROTECTED AND PRUNED, REFER TO SPECIFICATIONS, SECTION 02050 - EXISTING VEGETATION PROTECTION
	DEMOLISH AND REMOVE EXISTING FENCE, INCLUDING GATES, POSTS, HARDWARE, FABRIC AND FOOTINGS
	SAWCUT EXISTING ASPHALT PAVING

DEMOLITION ITEMS

ITEMS TO BE DEMOLISHED AND/OR REMOVED

1	CURB AND ALL BASE MATERIAL TO BE DEMOLISHED AND REMOVED.
2	ELECTRICAL ITEMS TO BE DEMOLISHED AND REMOVED. REFER TO ELECTRICAL PLANS.
3	FENCE AND FOOTINGS BE DEMOLISHED AND REMOVED.
4	DRAIN STRUCTURES TO BE DEMOLISHED AND REMOVED.
5	NOT USED
6	BOLLARD AND FOOTING TO BE DEMOLISHED AND REMOVED.
7	CONCRETE PAD TO BE DEMOLISHED AND REMOVED.
8	POWER POLE AND OVERHEAD LINE WILL BE REMOVED BY OTHERS PRIOR TO START OF PROJECT.
9	WATER UTILITY AND ASSOCIATED ITEMS TO BE DEMOLISHED AND REMOVED.
10	SIGN, POST AND FOOTING TO BE DEMOLISHED AND REMOVED.
11	STREET LIGHT, POST, AND FOOTING TO BE REMOVED AND RELOCATED.
12	TRAFFIC SIGNAL BOX TO BE DEMOLISHED AND REMOVED.
13	UTILITY BOX TO BE REPLACED WITH TRAFFIC RATED BOX AND LID.
14	CABLE TV BOX TO BE REMOVED AND RELOCATED.
15	MONUMENT TO BE DEMOLISHED AND REMOVED.

ITEMS TO BE PROTECTED OR RELOCATED

A	EDGEBANDS, FENCING, GATES, CURBS &/OR GUTTERS TO REMAIN & BE PROTECTED.
B	HARDSCAPE TO REMAIN AND BE PROTECTED.
C	ELECTRICAL ITEMS TO REMAIN AND BE PROTECTED. REFER TO ELECTRICAL PLANS
D	DOMESTIC WATER LINE AND/OR VALVE AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
E	RECYCLED WATER LINE AND/OR VALVE AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
F	SANITARY SEWER LINE AND/OR STRUCTURES TO REMAIN AND BE PROTECTED.
G	STORM DRAIN LINE AND/OR STRUCTURES TO REMAIN AND BE PROTECTED.
H	UTILITY LINES AND/OR STRUCTURES TO REMAIN AN BE PROTECTED.
I	NOT USED
J	BOLLARD AND/OR POST TO REMAIN AND BE PROTECTED.
K	STREET LIGHT AND/OR POWER POLE TO REMAIN AND BE PROTECTED
L	SIGN, POST, AND ACCOMPANYING ITEMS TO REMAIN AND BE PROTECTED.
M	FIRE HYDRANT TO REMAIN AND BE PROTECTED.
N	MONUMENT TO REMAIN AND BE PROTECTED.
O	POWER POLE TO REMAIN AND BE PROTECTED

KEY MAP



NORTH

0' 10' 20' 40' 80'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

CONSULTANT

SHEET TITLE
DEMOLITION PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED: 04/29/2022	SCALE: 1"=20'-0"
PROJ. NO.: 2103800	
SHEET NO.: L3.7	

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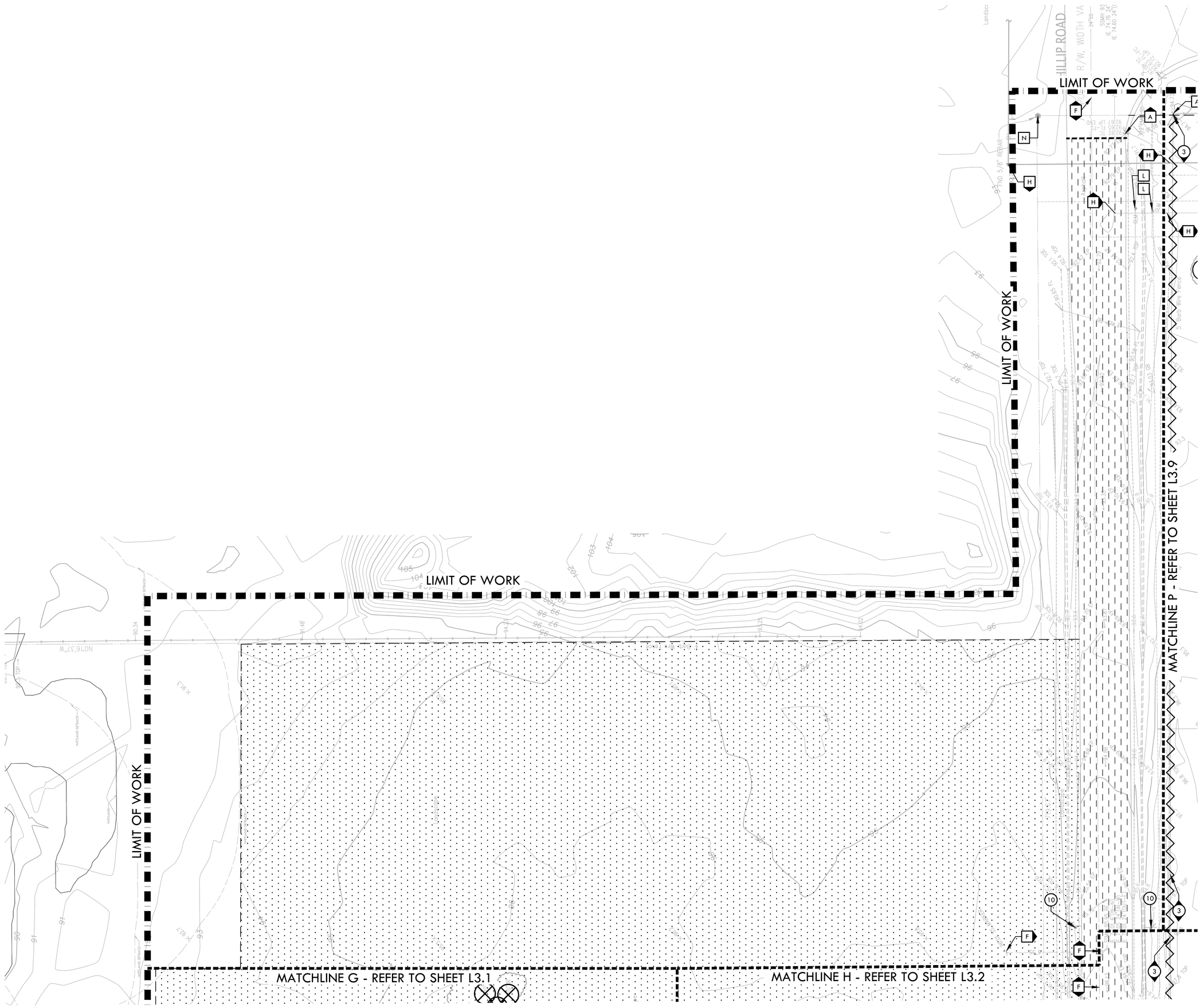
DRAWING NAME: V:\Projects-FY\2021\2103800 - roseville 6 soccer complex\cad_DEM-SRV.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station46



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3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
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8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM FOR PLANT MATERIAL THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

DEMOLITION LEGEND

SYM.	DESCRIPTION
	LIMIT OF WORK
	LIMIT OF CLEAR AND GRUB/CONSTRUCTION FENCING
	KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED
	KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED
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	REMOVE EXISTING TREES
P	TREE TO REMAIN AND BE PROTECTED AND PRUNED, REFER TO SPECIFICATIONS, SECTION 02050 - EXISTING VEGETATION PROTECTION
	DEMOLISH AND REMOVE EXISTING FENCE, INCLUDING GATES, POSTS, HARDWARE, FABRIC AND FOOTINGS
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DEMOLITION ITEMS

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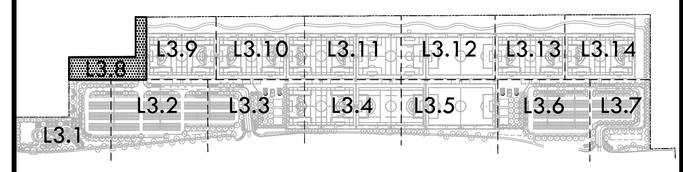
KEY MAP



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Folsom, CA 95630
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fax: 916.415.6525
www.VerdeDesignInc.com

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
DEMOLITION PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY
DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"
PROJ. NO. 2103800
SHEET NO. L3.8

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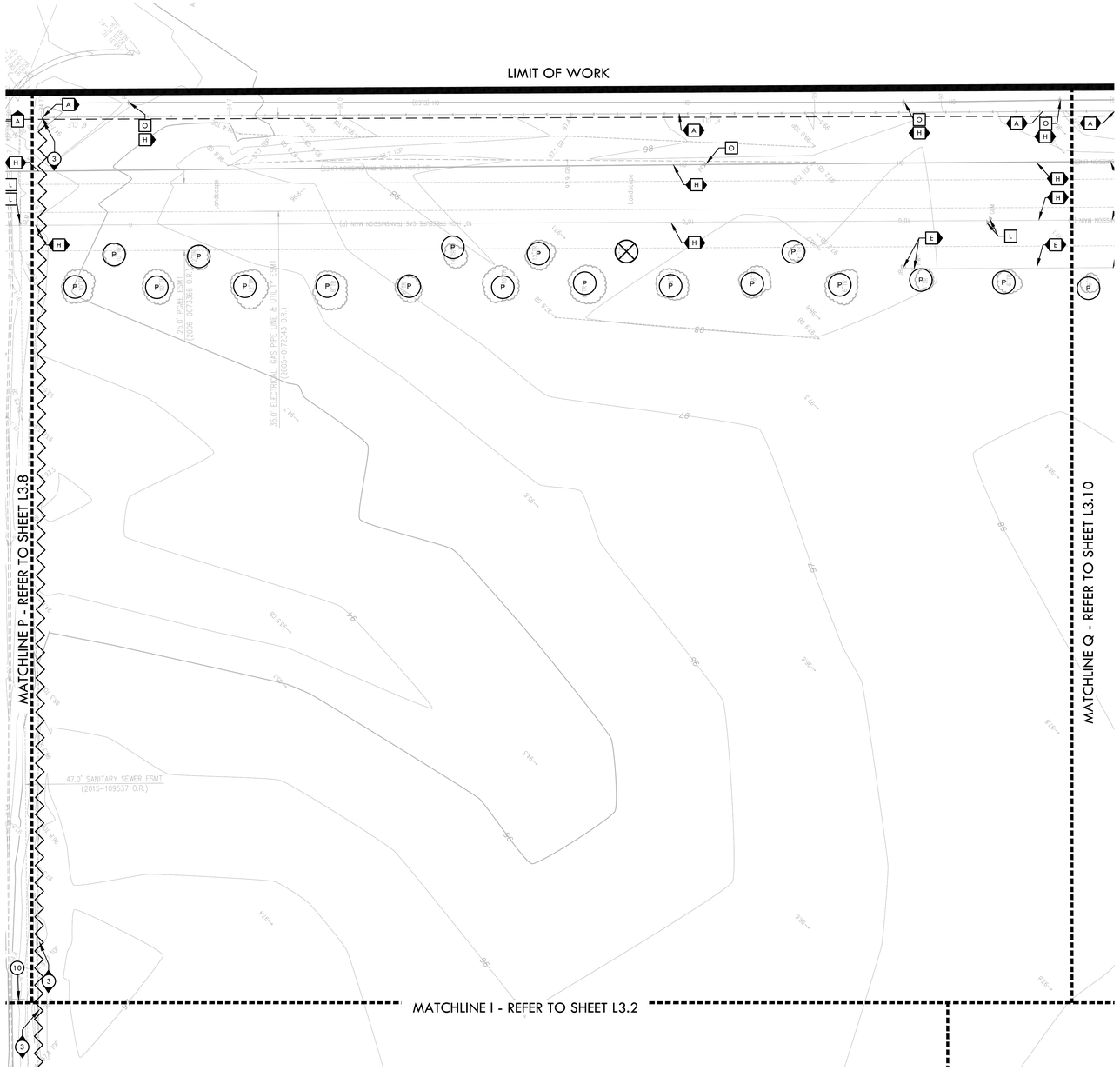
DRAWING NAME: Y:\Projects-FY\2021\2103800 - Roseville 6 Soccer Complex\CAD_DEM-SRV.dwg
PLOT DATE: 06-24-22 PLOTTED BY: station46



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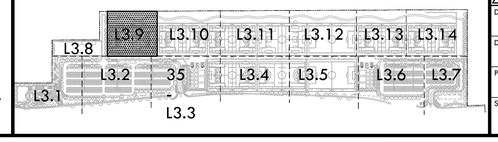
KEY MAP



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PROJECT ADDRESS
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SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

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04/29/2022	1"=20'-0"
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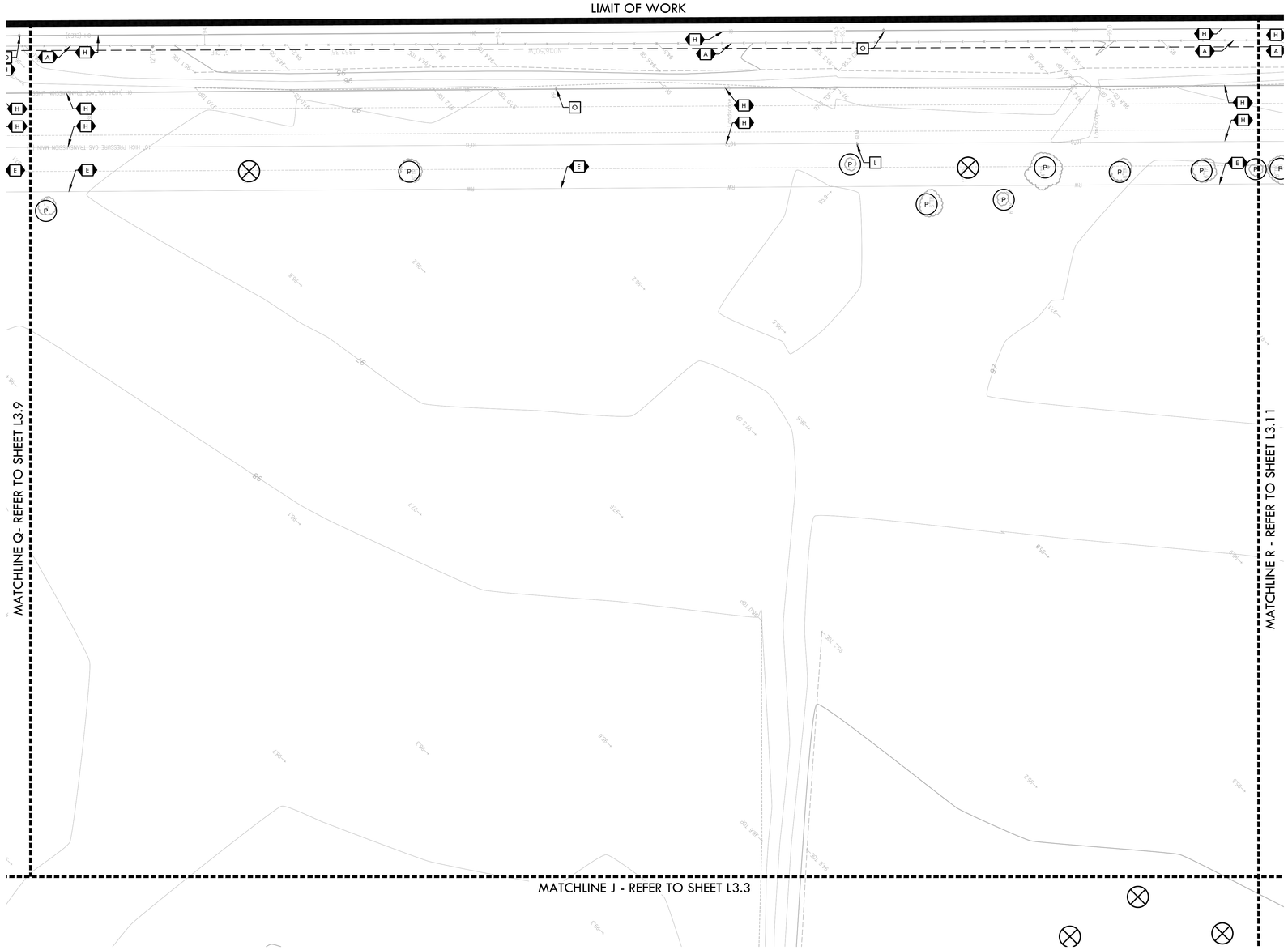
DRAWING NAME: Y:\Projects-FO\2021\2103800 - roseville 6 soccer complex\cad_DEM-SRV.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station46



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6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREA LIMIT OF WORK. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). ASHALL INCLUDE FULL HEIGHT FIRREN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIPLINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM FOR PLANT MATERIAL THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

DEMOLITION LEGEND

SYM.	DESCRIPTION
	LIMIT OF WORK
	LIMIT OF CLEAR AND GRUB/CONSTRUCTION FENCING
1E	KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED
1E	KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED
	EXISTING SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. EXISTING TOP SOIL SHALL BE REMOVED FROM SITE PER GEOTECHINCAL REPORT. REFER TO SPECIFICATIONS FOR INFORMATION. REMOVE EXCESS SOIL FROM SITE.
	EXISTING HARDSCAPE PAVING INCLUDING BASE MATERIAL TO BE DEMOLISHED AND REMOVED. FOR CONCRETE PAVING, CONTRACTOR TO SAWCUT AT NEAREST EXPANSION/SCORE JOINT.
	REMOVE EXISTING TREES
P	TREE TO REMAIN AND BE PROTECTED AND PRUNED, REFER TO SPECIFICATIONS, SECTION 02050 - EXISTING VEGETATION PROTECTION
	DEMOLISH AND REMOVE EXISTING FENCE, INCLUDING GATES, POSTS, HARDWARE, FABRIC AND FOOTINGS
	SAWCUT EXISTING ASPHALT PAVING

DEMOLITION ITEMS

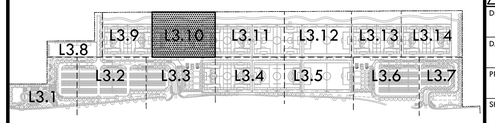
ITEMS TO BE DEMOLISHED AND/OR REMOVED

1. CURB AND ALL BASE MATERIAL TO BE DEMOLISHED AND REMOVED.
2. ELECTRICAL ITEMS TO BE DEMOLISHED AND REMOVED. REFER TO ELECTRICAL PLANS.
3. FENCE AND FOOTINGS BE DEMOLISHED AND REMOVED.
4. DRAIN STRUCTURES TO BE DEMOLISHED AND REMOVED.
5. NOT USED
6. BOLLARD AND FOOTING TO BE DEMOLISHED AND REMOVED.
7. CONCRETE PAD TO BE DEMOLISHED AND REMOVED.
8. POWER POLE AND OVERHEAD LINE WILL BE REMOVED BY OTHERS PRIOR TO START OF PROJECT.
9. WATER UTILITY AND ASSOCIATED ITEMS TO BE DEMOLISHED AND REMOVED.
10. SIGN, POST AND FOOTING TO BE DEMOLISHED AND REMOVED.
11. STREET LIGHT, POST, AND FOOTING TO BE REMOVED AND RELOCATED.
12. TRAFFIC SIGNAL BOX TO BE DEMOLISHED AND REMOVED.
13. UTILITY BOX TO BE REPLACED WITH TRAFFIC RATED BOX AND LID.
14. CABLE TV BOX TO BE REMOVED AND RELOCATED.
15. MONUMENT TO BE DEMOLISHED AND REMOVED.

ITEMS TO BE PROTECTED OR RELOCATED

- A. EDGEBANDS, FENCING, GATES, CURBS &/OR GUTTERS TO REMAIN & BE PROTECTED.
- B. HARDSCAPE TO REMAIN AND BE PROTECTED.
- C. ELECTRICAL ITEMS TO REMAIN AND BE PROTECTED. REFER TO ELECTRICAL PLANS
- D. DOMESTIC WATER LINE AND/OR VALVE AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
- E. RECYCLED WATER LINE AND/OR VALVE AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
- F. SANITARY SEWER LINE AND/OR STRUCTURES TO REMAIN AND BE PROTECTED.
- G. STORM DRAIN LINE AND/OR STRUCTURES TO REMAIN AND BE PROTECTED.
- H. UTILITY LINES AND/OR STRUCTURES TO REMAIN AN BE PROTECTED.
- I. NOT USED
- J. BOLLARD AND/OR POST TO REMAIN AND BE PROTECTED.
- K. STREET LIGHT AND/OR POWER POLE TO REMAIN AND BE PROTECTED
- L. SIGN, POST, AND ACCOMPANYING ITEMS TO REMAIN AND BE PROTECTED.
- M. FIRE HYDRANT TO REMAIN AND BE PROTECTED.
- N. MONUMENT TO REMAIN AND BE PROTECTED.
- O. POWER POLE TO REMAIN AND BE PROTECTED

KEY MAP



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CONSULTANT

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ROSEVILLE, CA 95747

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30% SUBMITTAL	04/29/22

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2103800	
SHEET NO.	
L3.10	

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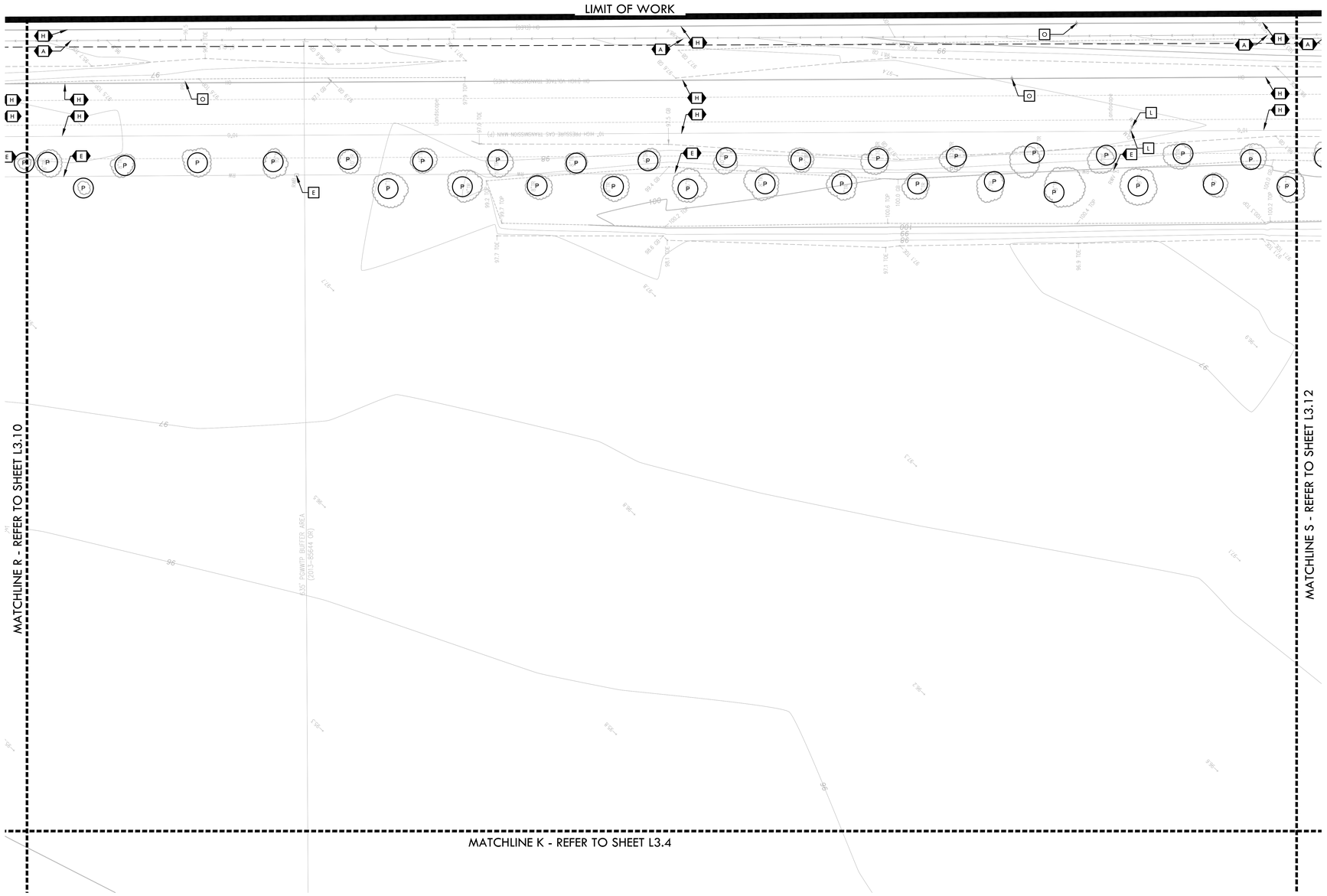
PLOT DATE: 04-28-22 PLOTTED BY: station46



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DEMOLITION LEGEND

SYM.	DESCRIPTION
	LIMIT OF WORK
	LIMIT OF CLEAR AND GRUB/CONSTRUCTION FENCING
16	KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED
16	KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED
	EXISTING SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. EXISTING TOP SOIL SHALL BE REMOVED FROM SITE PER GEOTECHINCAL REPORT. REFER TO SPECIFICATIONS FOR INFORMATION. REMOVE EXCESS SOIL FROM SITE.
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	REMOVE EXISTING TREES
P	TREE TO REMAIN AND BE PROTECTED AND PRUNED, REFER TO SPECIFICATIONS, SECTION 02050 - EXISTING VEGETATION PROTECTION
	DEMOLISH AND REMOVE EXISTING FENCE, INCLUDING GATES, POSTS, HARDWARE, FABRIC AND FOOTINGS
	SAWCUT EXISTING ASPHALT PAVING

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5. NOT USED
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7. CONCRETE PAD TO BE DEMOLISHED AND REMOVED.
8. POWER POLE AND OVERHEAD LINE WILL BE REMOVED BY OTHERS PRIOR TO START OF PROJECT.
9. WATER UTILITY AND ASSOCIATED ITEMS TO BE DEMOLISHED AND REMOVED.
10. SIGN, POST AND FOOTING TO BE DEMOLISHED AND REMOVED.
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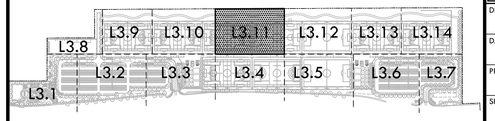
KEY MAP



NORTH

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SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
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tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

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CONSULTANT

SHEET TITLE
DEMOLITION PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE 1"=20'-0"
PROJ. NO. 2103800	
SHEET NO. L3.11	

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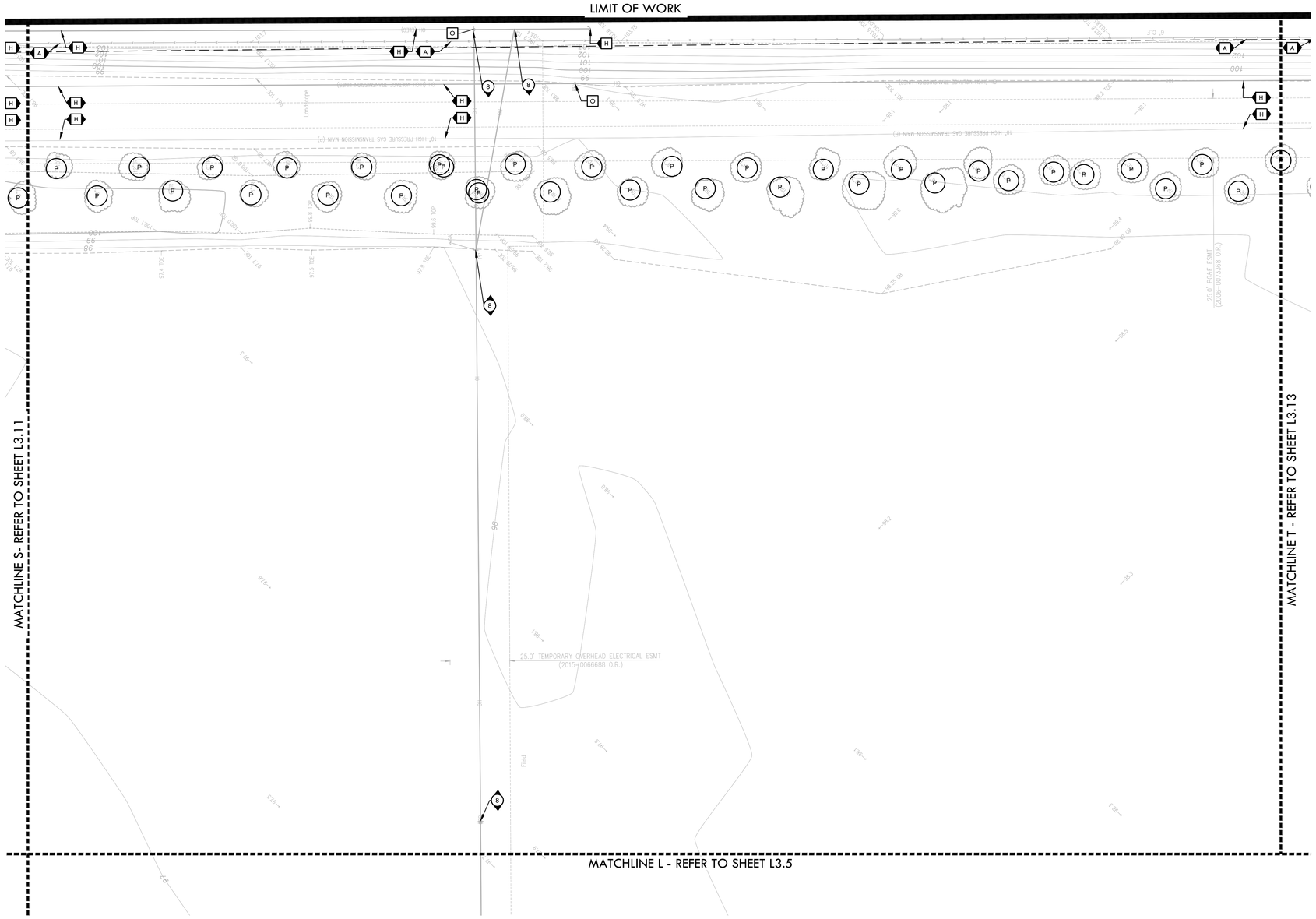

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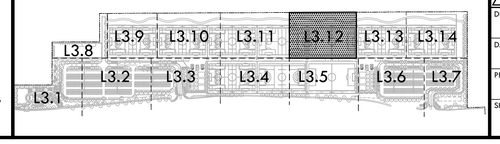

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PROJ. NO. 2103800	
SHEET NO. L3.12	

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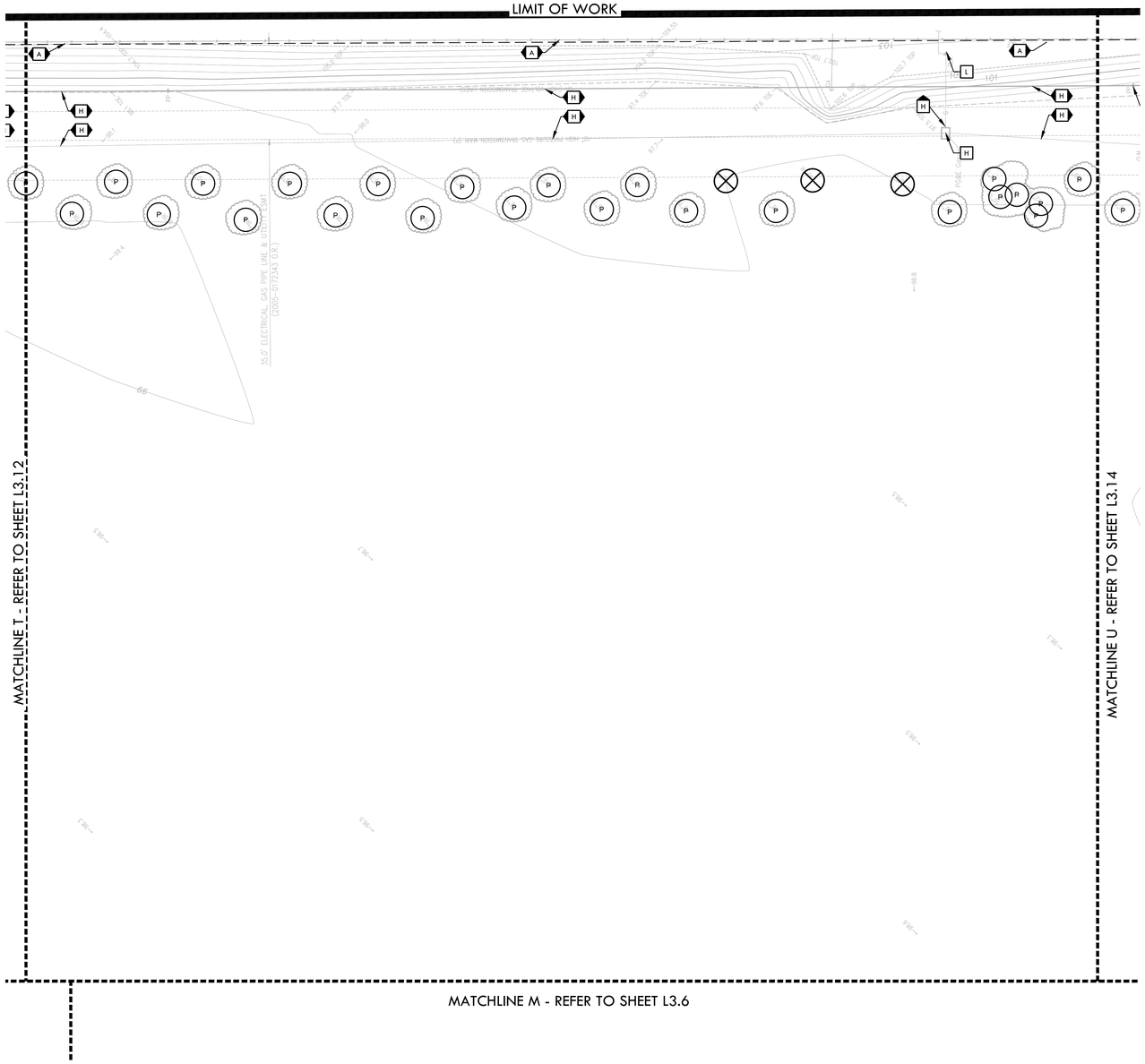
DRAWING NAME: Y:\Projects-FO\2021\2103800 - roseville 6 soccer complex\cad_DEM-SRV.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station46



DEMOLITION NOTES

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5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
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8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM FOR PLANT MATERIAL THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

DEMOLITION LEGEND

SYM.	DESCRIPTION
	LIMIT OF WORK
	LIMIT OF CLEAR AND GRUB/CONSTRUCTION FENCING
1E	KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED
1E	KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED
	EXISTING SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. EXISTING TOP SOIL SHALL BE REMOVED FROM SITE PER GEOTECHINCAL REPORT. REFER TO SPECIFICATIONS FOR INFORMATION. REMOVE EXCESS SOIL FROM SITE.
	EXISTING HARDSCAPE PAVING INCLUDING BASE MATERIAL TO BE DEMOLISHED AND REMOVED. FOR CONCRETE PAVING, CONTRACTOR TO SAWCUT AT NEAREST EXPANSION/SCORE JOINT.
	REMOVE EXISTING TREES
P	TREE TO REMAIN AND BE PROTECTED AND PRUNED, REFER TO SPECIFICATIONS, SECTION 02050 - EXISTING VEGETATION PROTECTION
	DEMOLISH AND REMOVE EXISTING FENCE, INCLUDING GATES, POSTS, HARDWARE, FABRIC AND FOOTINGS
	SAWCUT EXISTING ASPHALT PAVING

DEMOLITION ITEMS

ITEMS TO BE DEMOLISHED AND/OR REMOVED

1. CURB AND ALL BASE MATERIAL TO BE DEMOLISHED AND REMOVED.
2. ELECTRICAL ITEMS TO BE DEMOLISHED AND REMOVED. REFER TO ELECTRICAL PLANS.
3. FENCE AND FOOTINGS BE DEMOLISHED AND REMOVED.
4. DRAIN STRUCTURES TO BE DEMOLISHED AND REMOVED.
5. NOT USED
6. BOLLARD AND FOOTING TO BE DEMOLISHED AND REMOVED.
7. CONCRETE PAD TO BE DEMOLISHED AND REMOVED.
8. POWER POLE AND OVERHEAD LINE WILL BE REMOVED BY OTHERS PRIOR TO START OF PROJECT.
9. WATER UTILITY AND ASSOCIATED ITEMS TO BE DEMOLISHED AND REMOVED.
10. SIGN, POST AND FOOTING TO BE DEMOLISHED AND REMOVED.
11. STREET LIGHT, POST, AND FOOTING TO BE REMOVED AND RELOCATED.
12. TRAFFIC SIGNAL BOX TO BE DEMOLISHED AND REMOVED.
13. UTILITY BOX TO BE REPLACED WITH TRAFFIC RATED BOX AND LID.
14. CABLE TV BOX TO BE REMOVED AND RELOCATED.
15. MONUMENT TO BE DEMOLISHED AND REMOVED.

ITEMS TO BE PROTECTED OR RELOCATED

- A. EDGEBANDS, FENCING, GATES, CURBS &/OR GUTTERS TO REMAIN & BE PROTECTED.
- B. HARDSCAPE TO REMAIN AND BE PROTECTED.
- C. ELECTRICAL ITEMS TO REMAIN AND BE PROTECTED. REFER TO ELECTRICAL PLANS
- D. DOMESTIC WATER LINE AND/OR VALVE AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
- E. RECYCLED WATER LINE AND/OR VALVE AND ASSOCIATED ITEMS TO REMAIN AND BE PROTECTED.
- F. SANITARY SEWER LINE AND/OR STRUCTURES TO REMAIN AND BE PROTECTED.
- G. STORM DRAIN LINE AND/OR STRUCTURES TO REMAIN AND BE PROTECTED.
- H. UTILITY LINES AND/OR STRUCTURES TO REMAIN AN BE PROTECTED.
- I. NOT USED
- J. BOLLARD AND/OR POST TO REMAIN AND BE PROTECTED.
- K. STREET LIGHT AND/OR POWER POLE TO REMAIN AND BE PROTECTED
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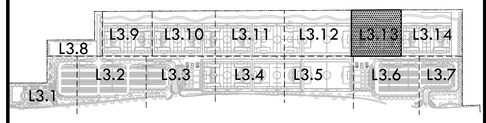
- M. FIRE HYDRANT TO REMAIN AND BE PROTECTED.
- N. MONUMENT TO REMAIN AND BE PROTECTED.
- O. POWER POLE TO REMAIN AND BE PROTECTED

KEY MAP



NORTH

0' 10' 20' 40' 80'

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fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

CONSULTANT

SHEET TITLE
DEMOLITION PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE 1"=20'-0"
PROJ. NO. 2103800	
SHEET NO. L3.13	

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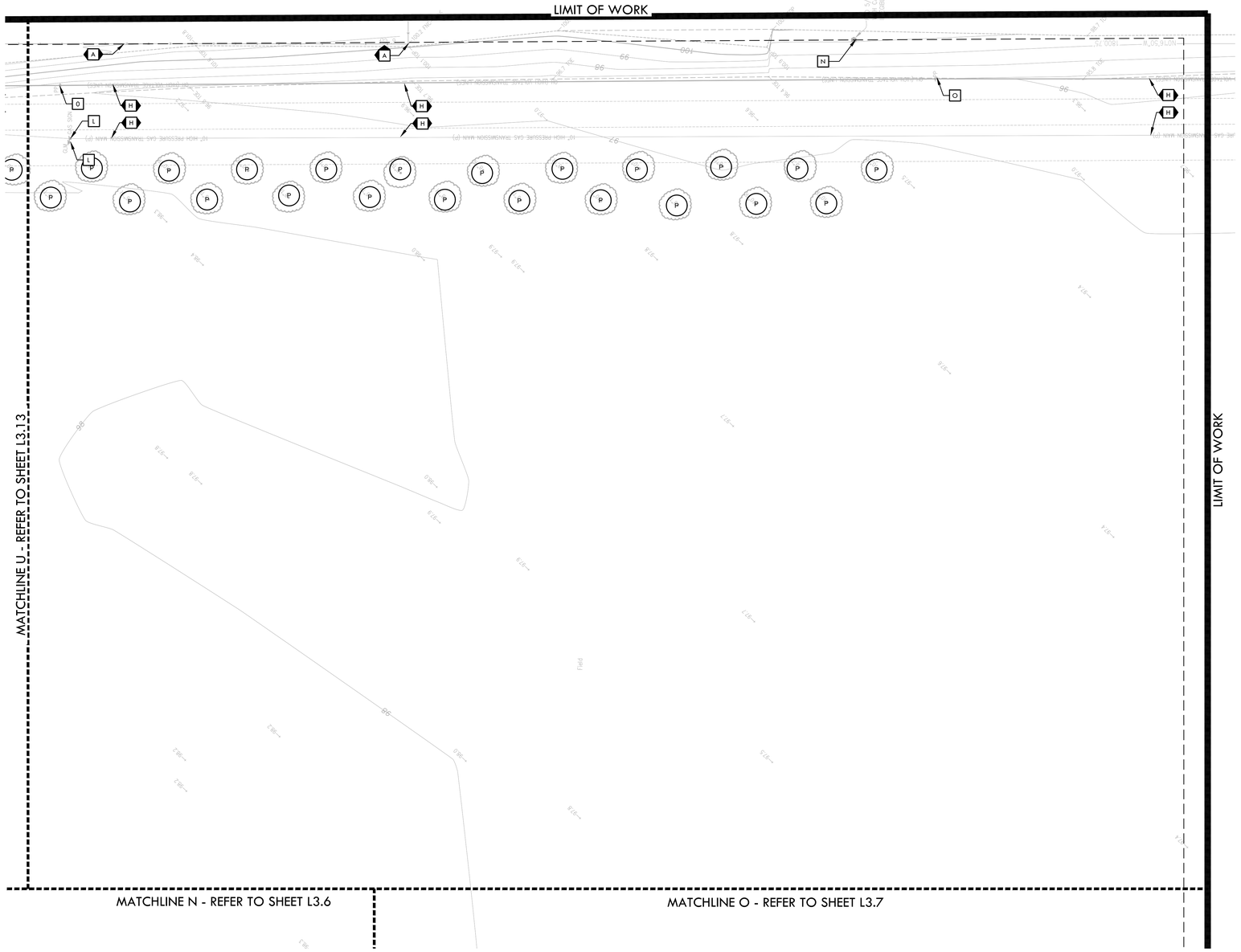
PLOT DATE: 04-28-22 PLOTTED BY: station46



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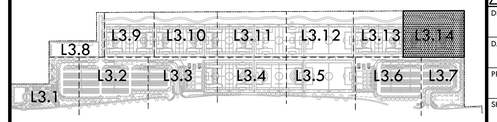
KEY MAP



NORTH

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CONSULTANT

SHEET TITLE
DEMOLITION PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY
DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
PROJ. NO.: 2103800
SHEET NO.: L3.14

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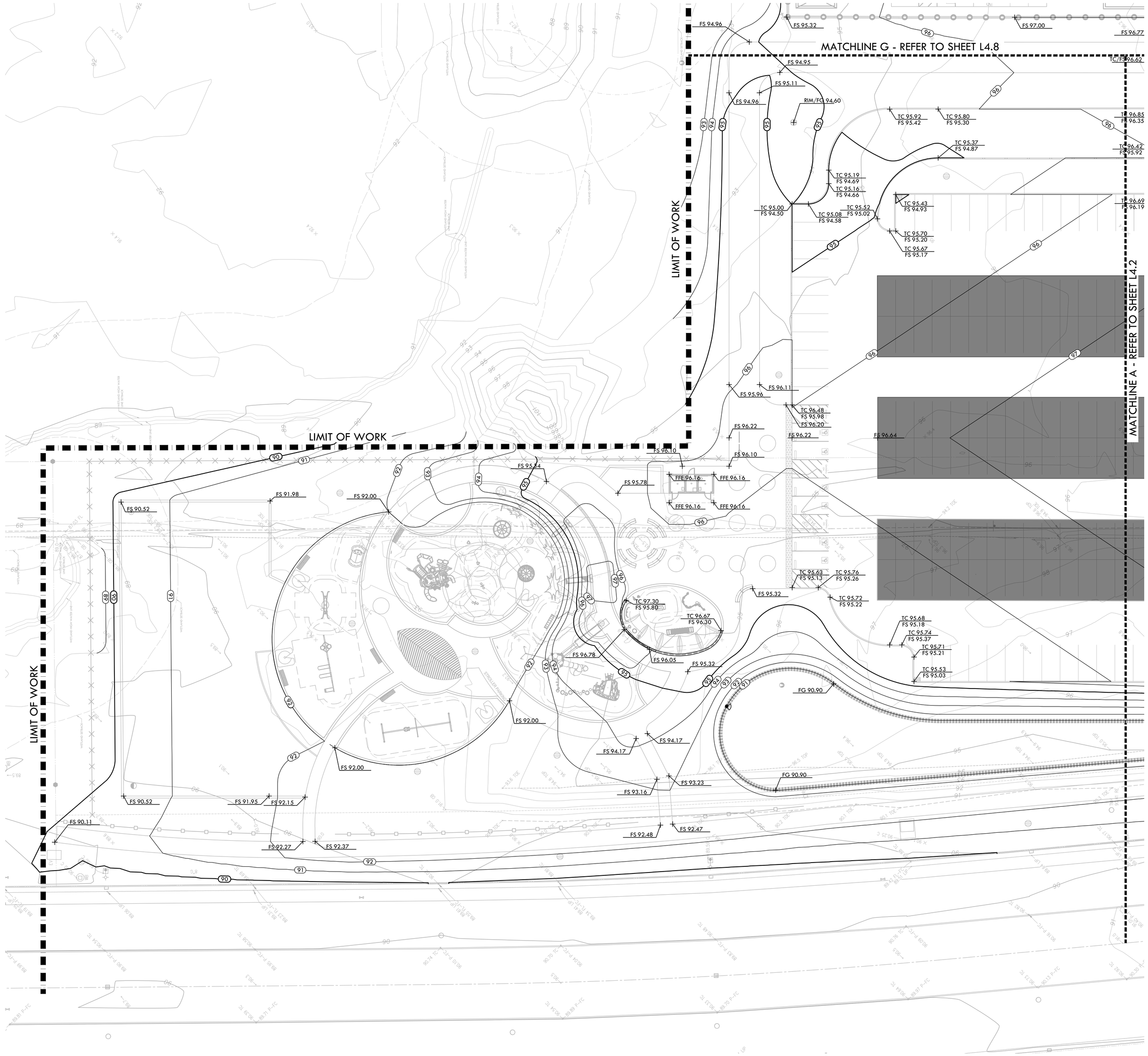
PLOT DATE: 04-28-22 PLOTTED BY: station46



GRADING NOTES

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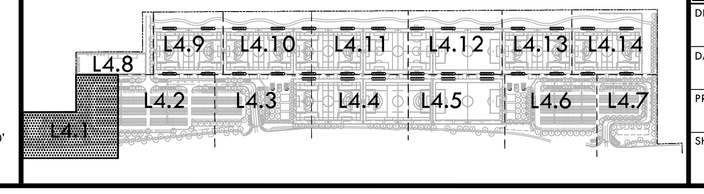
3. PROPOSED GRADES SHALL MEET EXISTING GRADES WITH A SMOOTH AND CONTINUOUS TRANSITION SO AS TO AVOID TRAPPING WATER. CONTRACTOR SHALL NOTIFY OWNER REPRESENTATIVE IF PUDDLING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE AWAITING RESPONSE.
4. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

GRADING LEGEND

SYM.	DESCRIPTION
00	PROPOSED CONTOUR
SG 30	PROPOSED SUBGRADE CONTOUR
FG 32.00	PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE
FT 32.00	PROPOSED ELEVATION OF TOP OF SYNTHETIC TURF INFILL
FS 32.00	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE
HP 32.00	HIGH POINT/ HIGH POINT OF SWALE
RIM 31.00	LOW POINT/ RIM ELEVATION OF DRAIN
SG 32.00	PROPOSED FINISH SUGRADE ELEVATION
TC 32.50	TOP OF CURB
TW 34.00	TOP OF WALL
FF 99.00	FINISHED FLOOR ELEVATION
TD 99.00	TOP OF TRENCH DRAIN
	CENTER LINE OF SWALE
R	CROWN OF FIELD, OR RIDGE LINE
L	LOW POINT OF FIELD
	CONFORM TO EXISTING GRADE
	LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
	FLOW DIRECTION IN SOFTSCAPE
102	EXISTING CONTOUR
+ 102.1	EXISTING ELEVATION

KEY MAP



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fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
GRADING PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE
1		
2		
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5		
6		

DRAWN BY
CHECKED BY
DATE ISSUED 04/29/2022
SCALE 1"=20'-0"
PROJ. NO. 2103800
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DRAWING NAME: Y:\Projects-FO\2021\2103800 - Roseville 6 Soccer Complex\CAD_GRD-3D.dwg
PLOT DATE: 06-24-22 PLOTTED BY: station46



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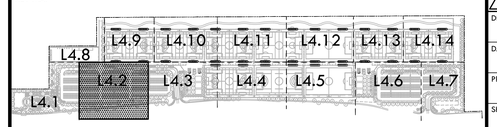
HP 32.00	HIGH POINT/ HIGH POINT OF SWALE
RIM 31.00	LOW POINT/ RIM ELEVATION OF DRAIN
SG 32.00	PROPOSED FINISH SUGRADE ELEVATION
TC 32.50	TOP OF CURB
TW 34.00	TOP OF WALL
FF 99.00	FINISHED FLOOR ELEVATION
TD 99.00	TOP OF TRENCH DRAIN
	CENTER LINE OF SWALE
R	CROWN OF FIELD, OR RIDGE LINE
L	LOW POINT OF FIELD
	CONFORM TO EXISTING GRADE
	LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
	FLOW DIRECTION IN SOFTSCAPE
102	EXISTING CONTOUR
+ 102.1	EXISTING ELEVATION

KEY MAP



NORTH

0' 10' 20' 40' 80'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
GRADING PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

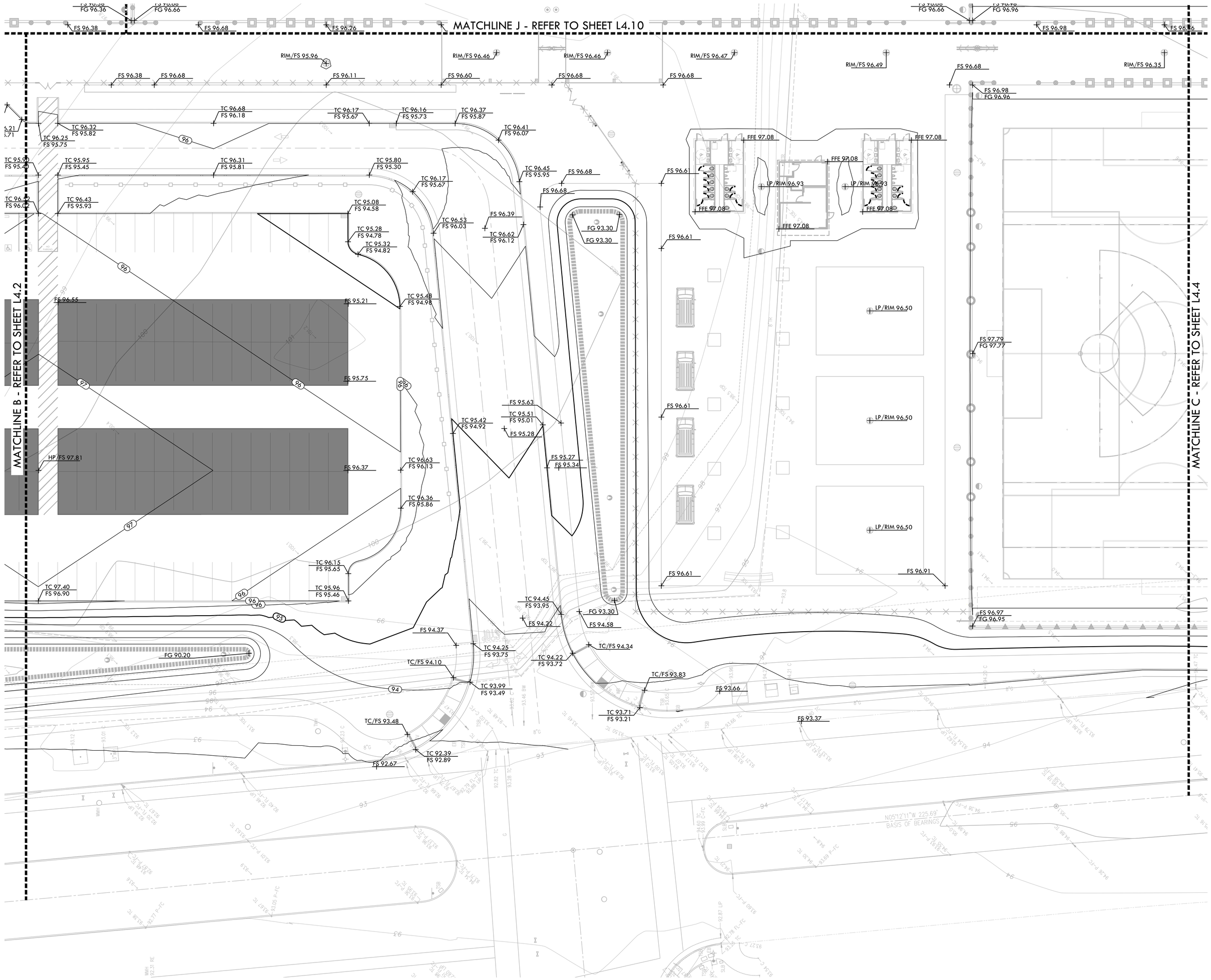
SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY
CHECKED BY
DATE ISSUED 04/29/2022
SCALE 1"=20'-0"
PROJ. NO. 2103800
SHEET NO. L4.2

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF VERDE DESIGN, INC. EXCEPT TO THE EXTENT THAT THIS PROJECT IS BUILT.

DRAWING NAME: Y:\Projects-FD\2021\2103800 - Roseville 6 Soccer Complex\CAD_SHD-30.dwg
PLOT DATE: 04-29-22 PLOTTED BY: station46



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GRADING LEGEND

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FS 32.00	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE
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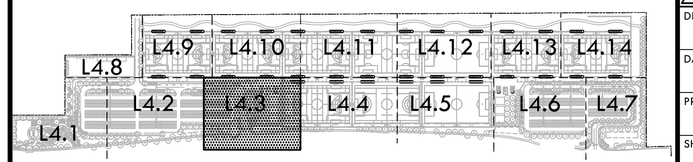
L	LOW POINT OF FIELD
	CONFORM TO EXISTING GRADE
	LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
	FLOW DIRECTION IN SOFTSCAPE
102	EXISTING CONTOUR
+ 102.1	EXISTING ELEVATION

KEY MAP



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CONSULTANT

SHEET TITLE
GRADING PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE 1"=20'-0"
PROJ. NO. 2103800	
SHEET NO. L4.3	

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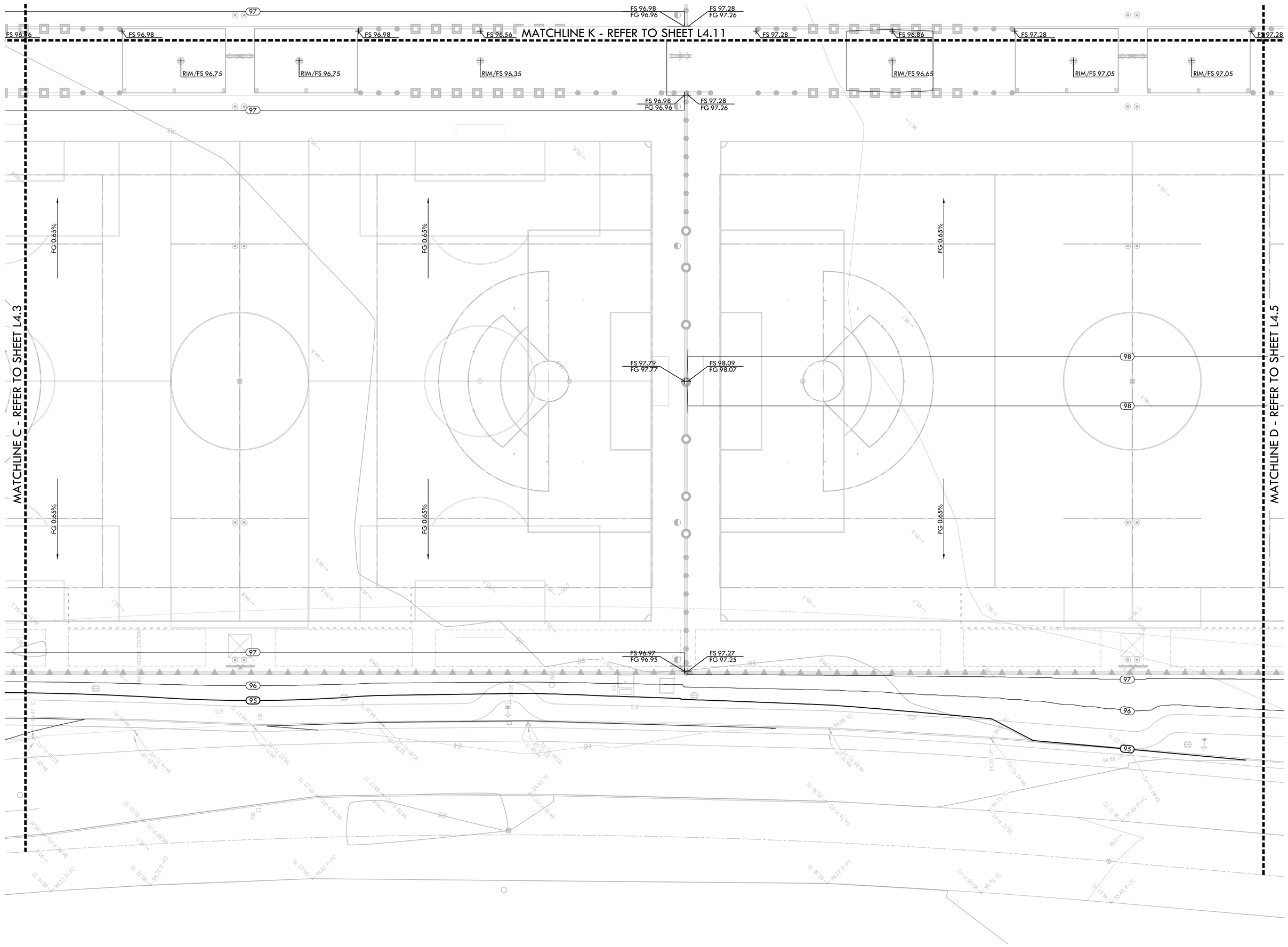
DRAWING NAME: Y:\Projects-FO\2021\2103800 - Roseville 6 Soccer Complex\CAD_GRD-3D.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station67



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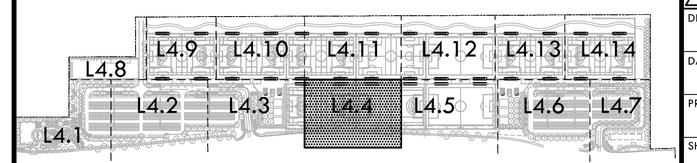
	LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
	FLOW DIRECTION IN SOFTSCAPE
102	EXISTING CONTOUR
+ 102.1	EXISTING ELEVATION

KEY MAP



NORTH

0' 10' 20' 40' 80'

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CONSULTANT

SHEET TITLE
GRADING PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

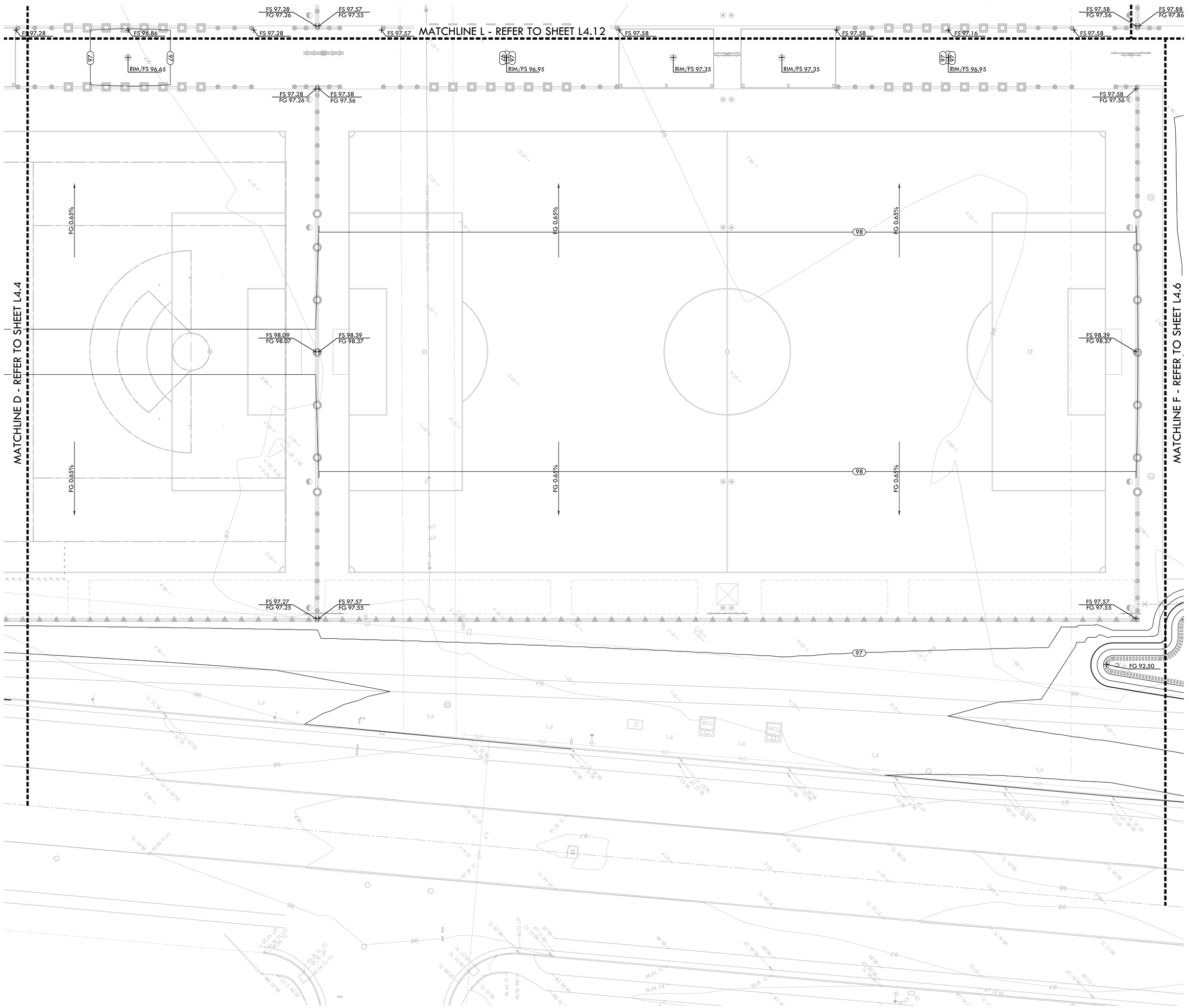
PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY
CHECKED BY
DATE ISSUED 04/29/2022
SCALE 1"=20'-0"
PROJ. NO. 2103800
SHEET NO. L4.4

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS, OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC.



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GRADING LEGEND

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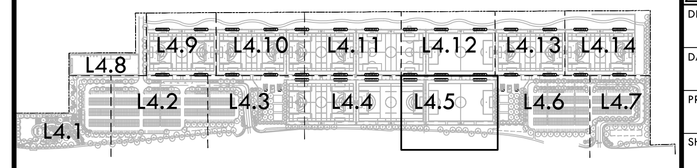
	LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
	FLOW DIRECTION IN SOFTSCAPE
102	EXISTING CONTOUR
+ 102.1	EXISTING ELEVATION

KEY MAP



NORTH

0' 10' 20' 40' 80'

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LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

CONSULTANT

SHEET TITLE
GRADING PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE 1"=20'-0"
PROJ. NO. 2103800	
SHEET NO. L4.5	

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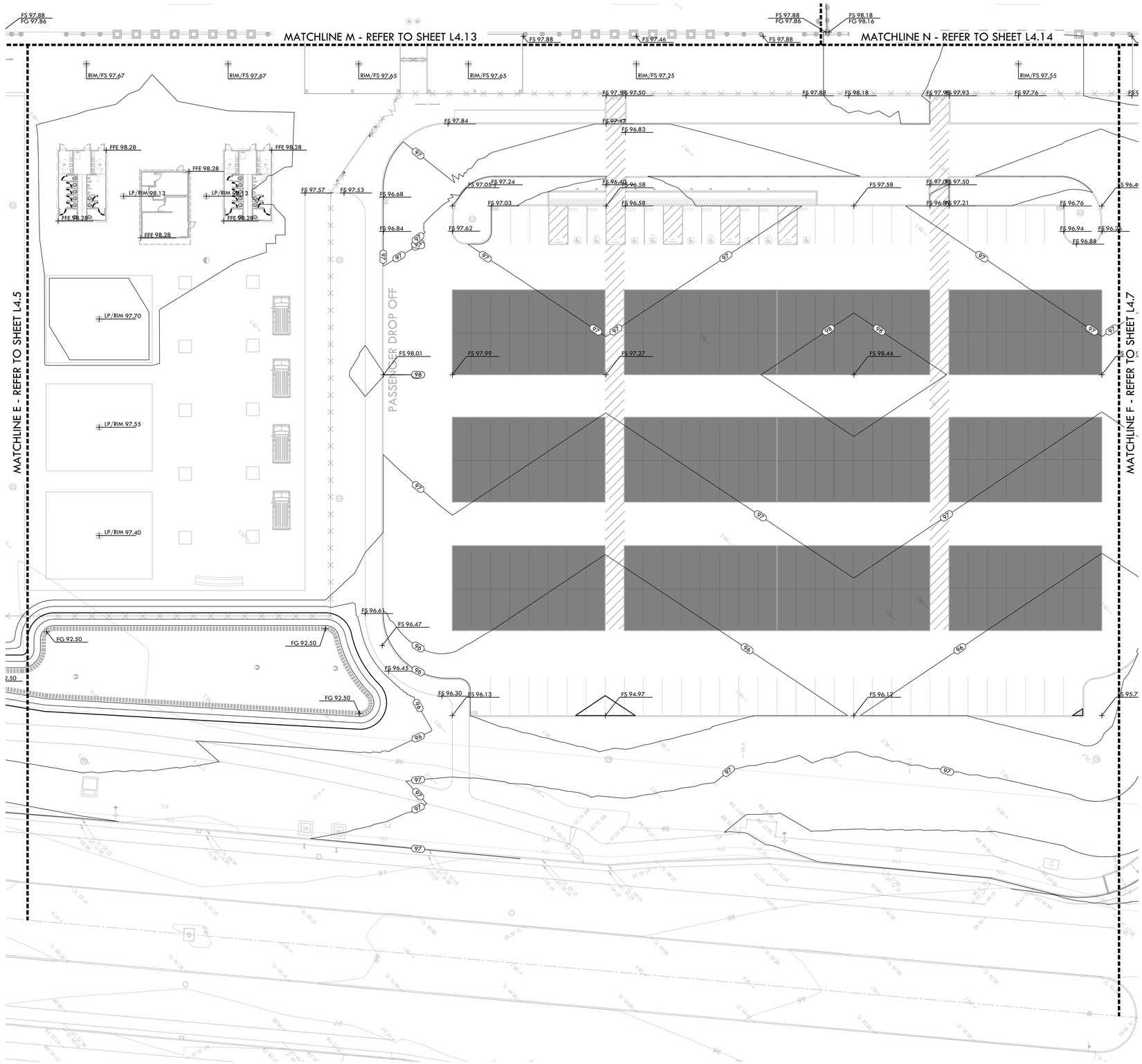
DRAWING NAME: Y:\Projects-FO\2021\2103800 - Roseville 6 Soccer Complex\CAD_GRD-3D.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station67



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102	EXISTING CONTOUR
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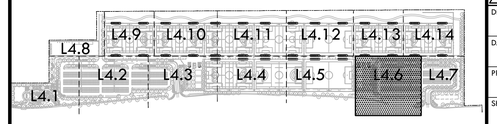
KEY MAP



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REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
GRADING PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE 1"=20'-0"
PROJ. NO. 2103800	
SHEET NO. L4.6	

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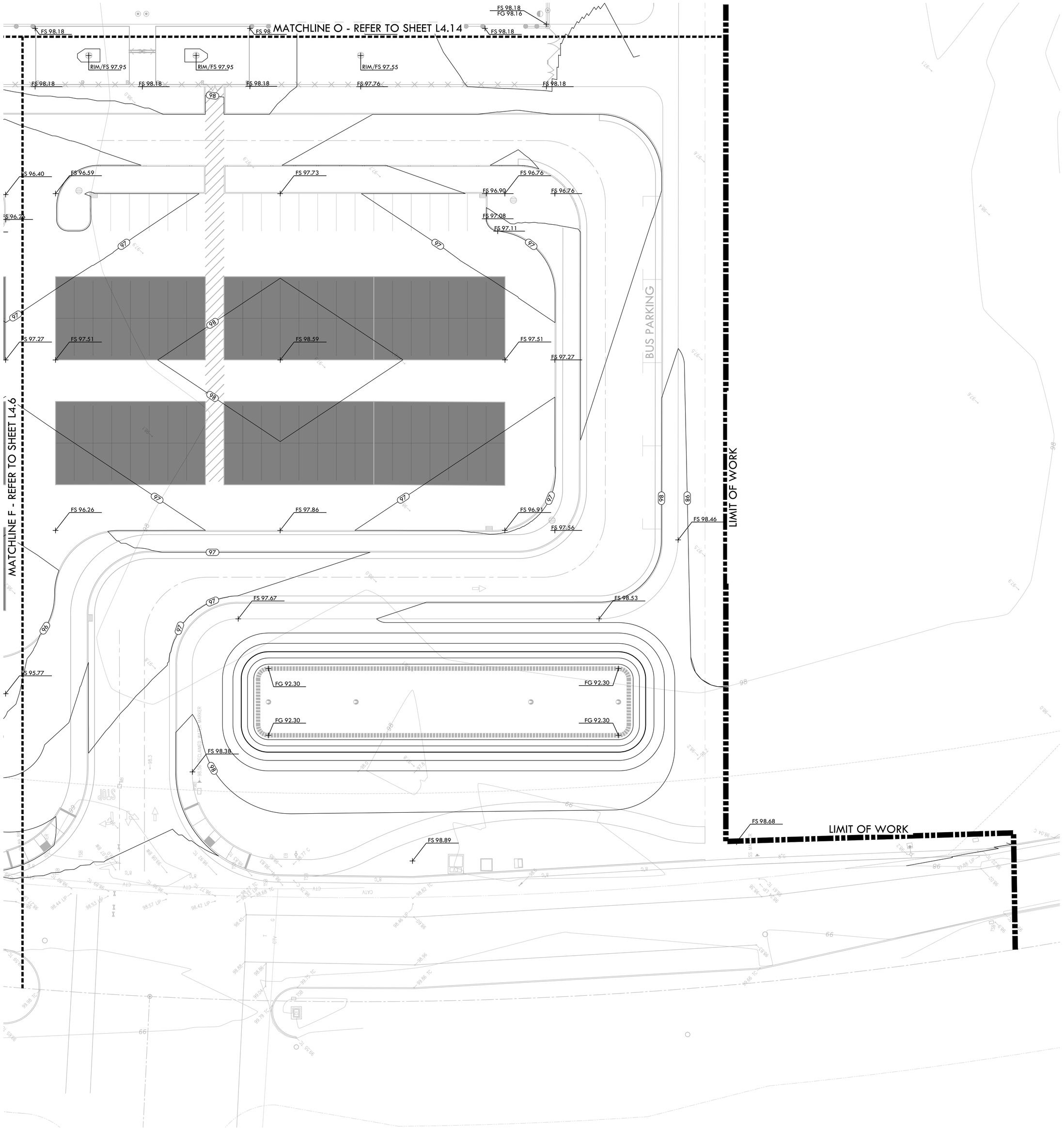

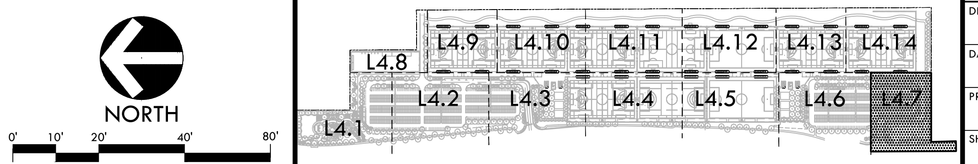

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KEY MAP

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DRAWN BY	CHECKED BY
DATE ISSUED: 04/29/2022	SCALE: 1"=20'-0"
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SHEET NO.: L4.7	

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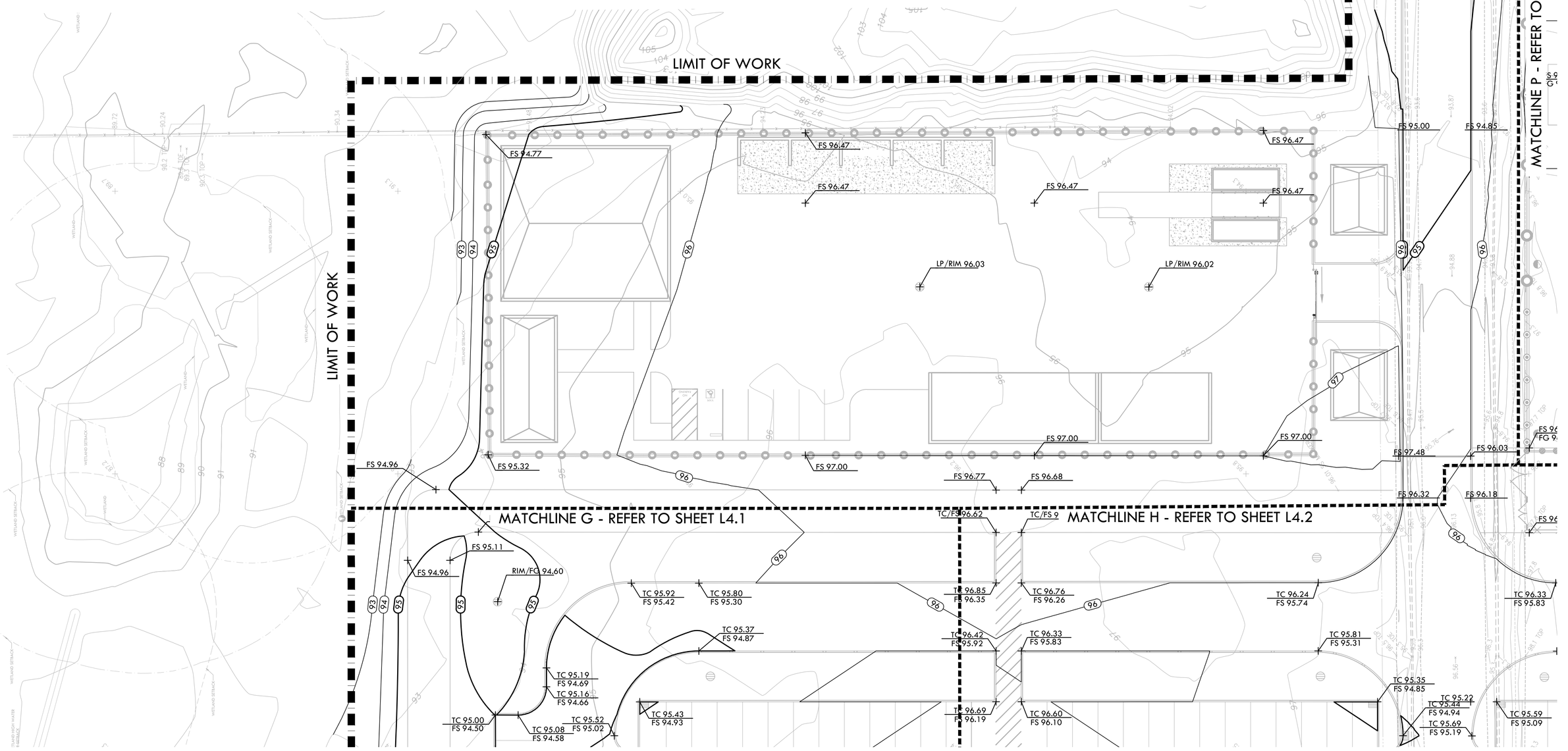
PLOT DATE: 04-28-22 PLOTTED BY: station67



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GRADING LEGEND

SYM.	DESCRIPTION
00	PROPOSED CONTOUR
SG 30	PROPOSED SUBGRADE CONTOUR
FG 32.00	PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE
FT 32.00	PROPOSED ELEVATION OF TOP OF SYNTHETIC TURF INFILL
FS 32.00	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE
HP 32.00	HIGH POINT/ HIGH POINT OF SWALE
RIM 31.00	LOW POINT/ RIM ELEVATION OF DRAIN
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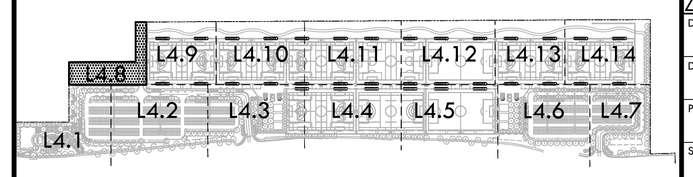
TC 32.50	TOP OF CURB
TW 34.00	TOP OF WALL
FF 99.00	FINISHED FLOOR ELEVATION
TD 99.00	TOP OF TRENCH DRAIN
	CENTER LINE OF SWALE
R	CROWN OF FIELD, OR RIDGE LINE
L	LOW POINT OF FIELD
	CONFORM TO EXISTING GRADE
	LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
	FLOW DIRECTION IN SOFTSCAPE
102	EXISTING CONTOUR
+ 102.1	EXISTING ELEVATION

KEY MAP



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REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
GRADING PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE
1		
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CHECKED BY
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SCALE 1"=20'-0"
PROJ. NO. 2103800
SHEET NO. L4.8

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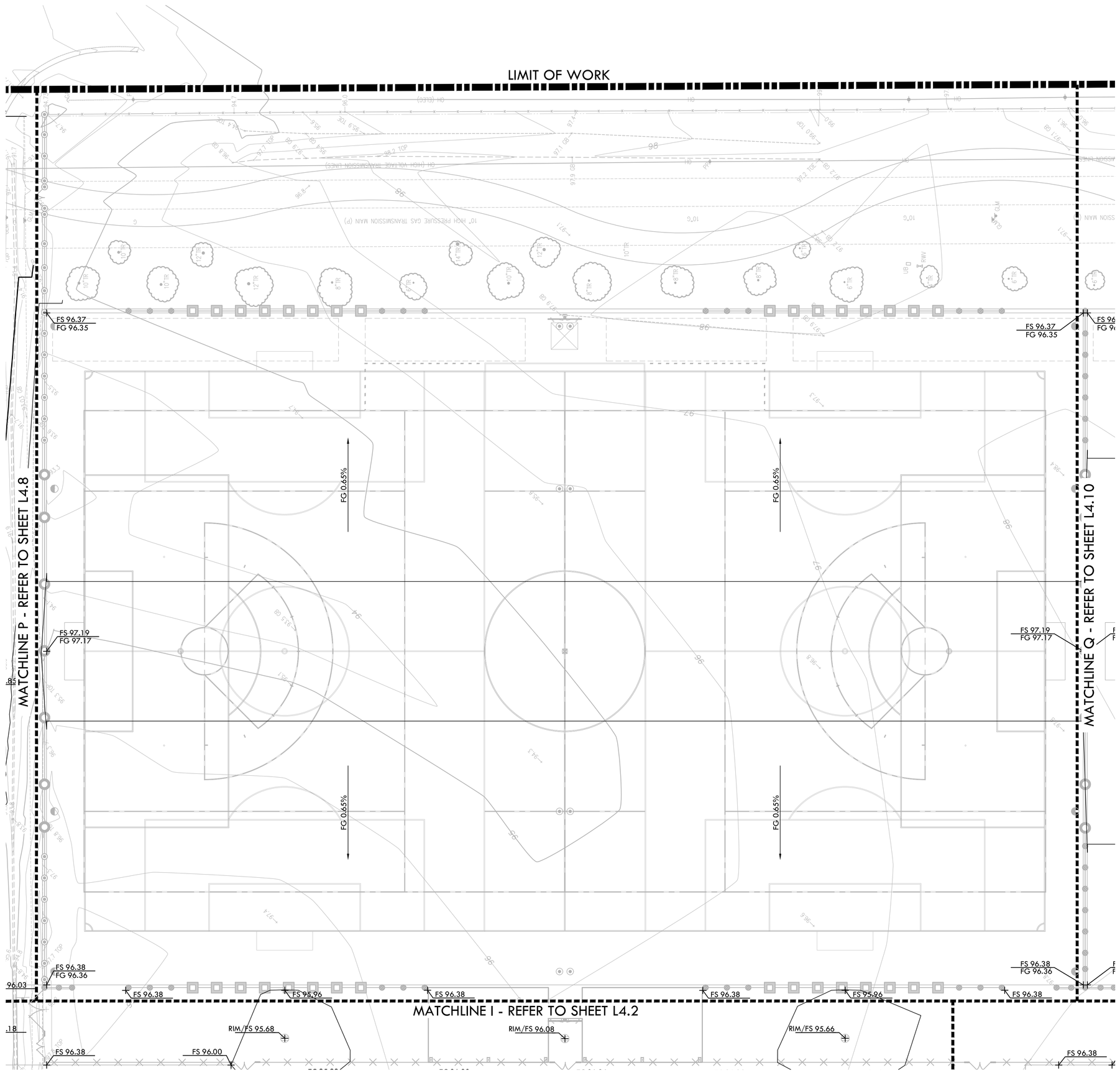

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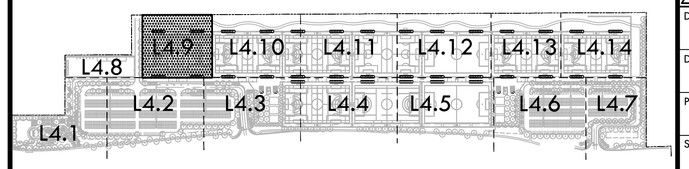
	FLOW DIRECTION IN SOFTSCAPE
102	EXISTING CONTOUR
+ 102.1	EXISTING ELEVATION

NORTH

0' 10' 20' 40' 80'

KEY MAP



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CONSULTANT

SHEET TITLE
GRADING PLAN

PROJECT NAME
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PROJECT ADDRESS
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SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

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2103800	
SHEET NO.	
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GRADING PLAN

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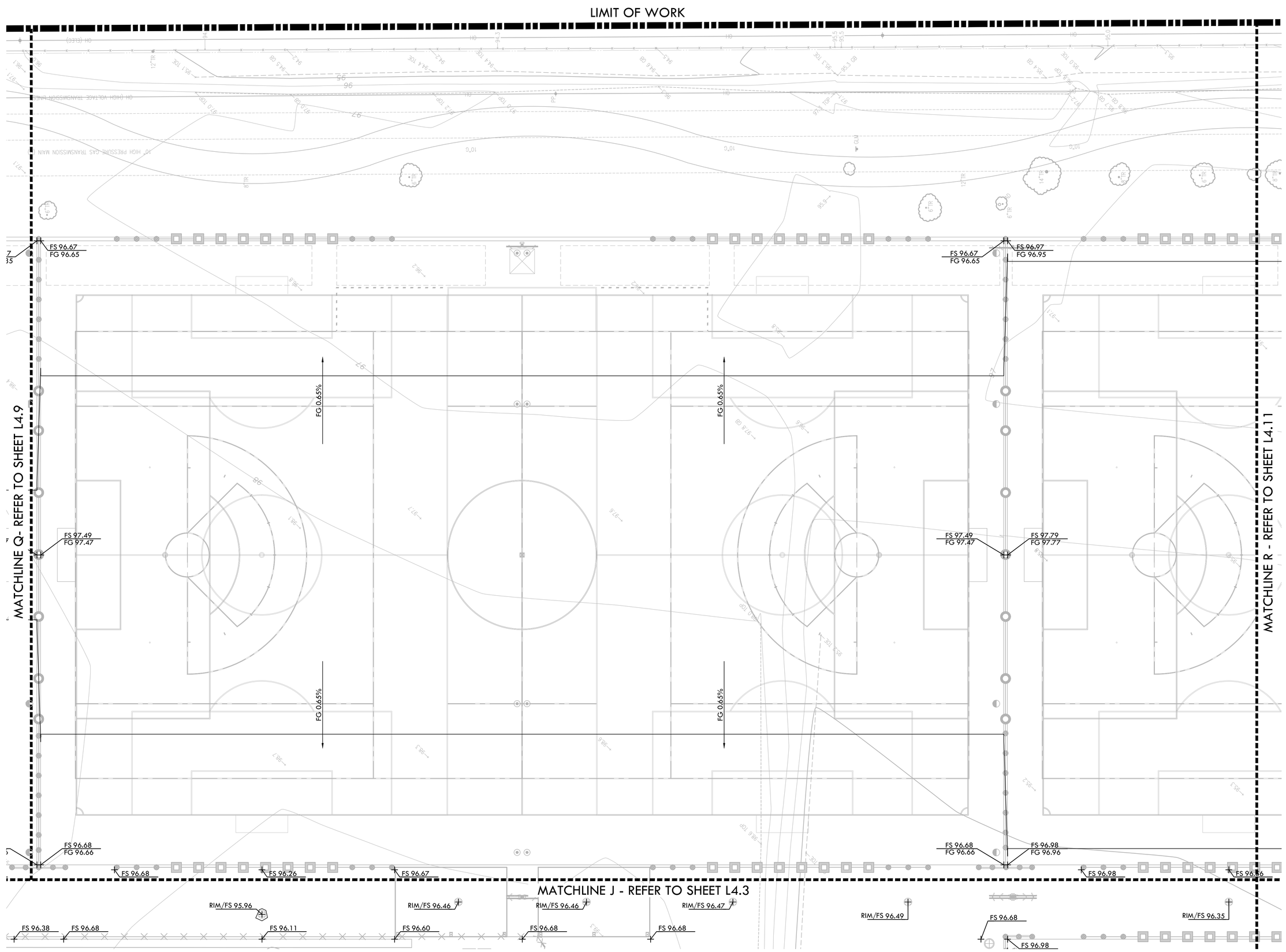
PLOT DATE: 04-28-22 PLOTTED BY: station67



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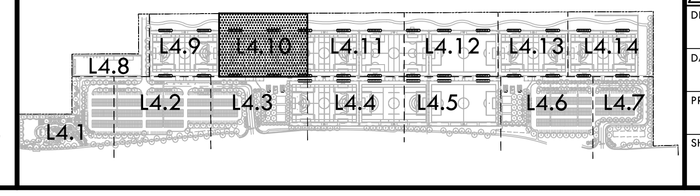
	FLOW DIRECTION IN SOFTSCAPE
102	EXISTING CONTOUR
+ 102.1	EXISTING ELEVATION

NORTH

0' 10' 20' 40' 80'

KEY MAP



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PROJECT NAME
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PROJECT ADDRESS
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ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

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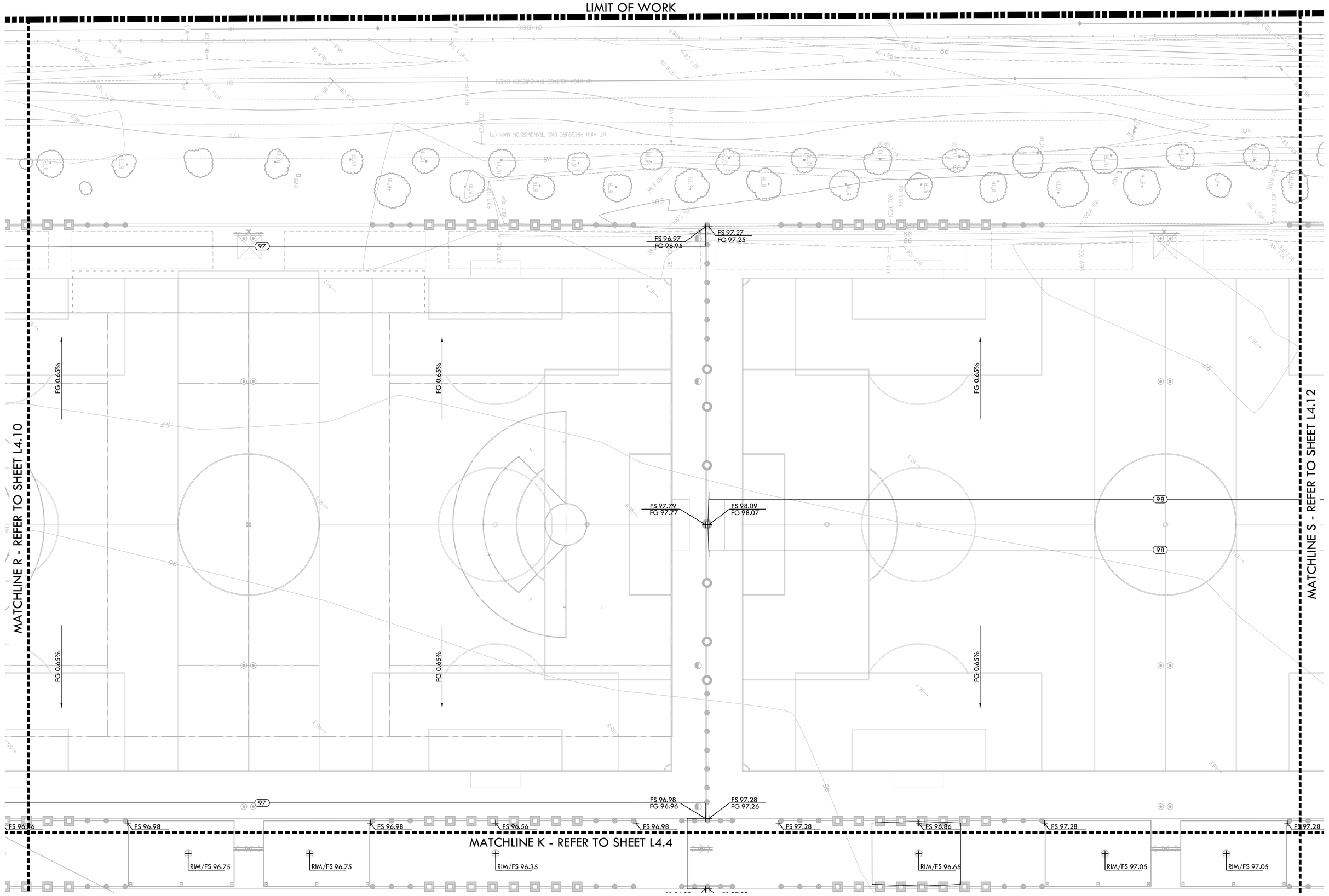

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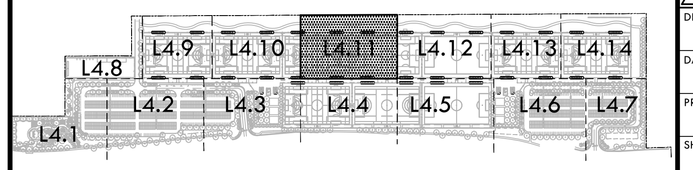
KEY MAP



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CONSULTANT

SHEET TITLE
GRADING PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
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ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

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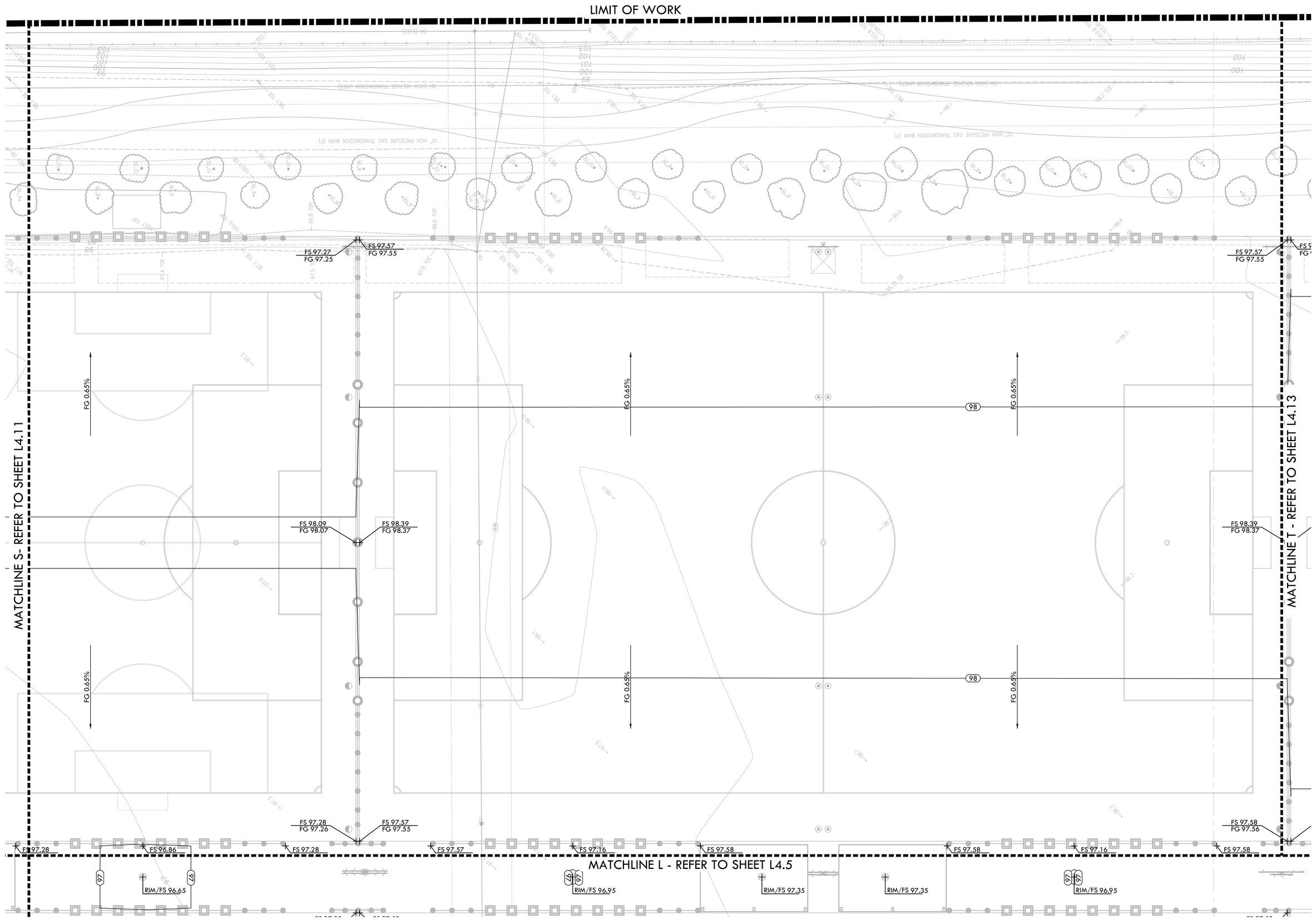

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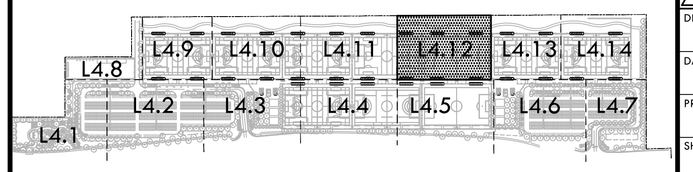

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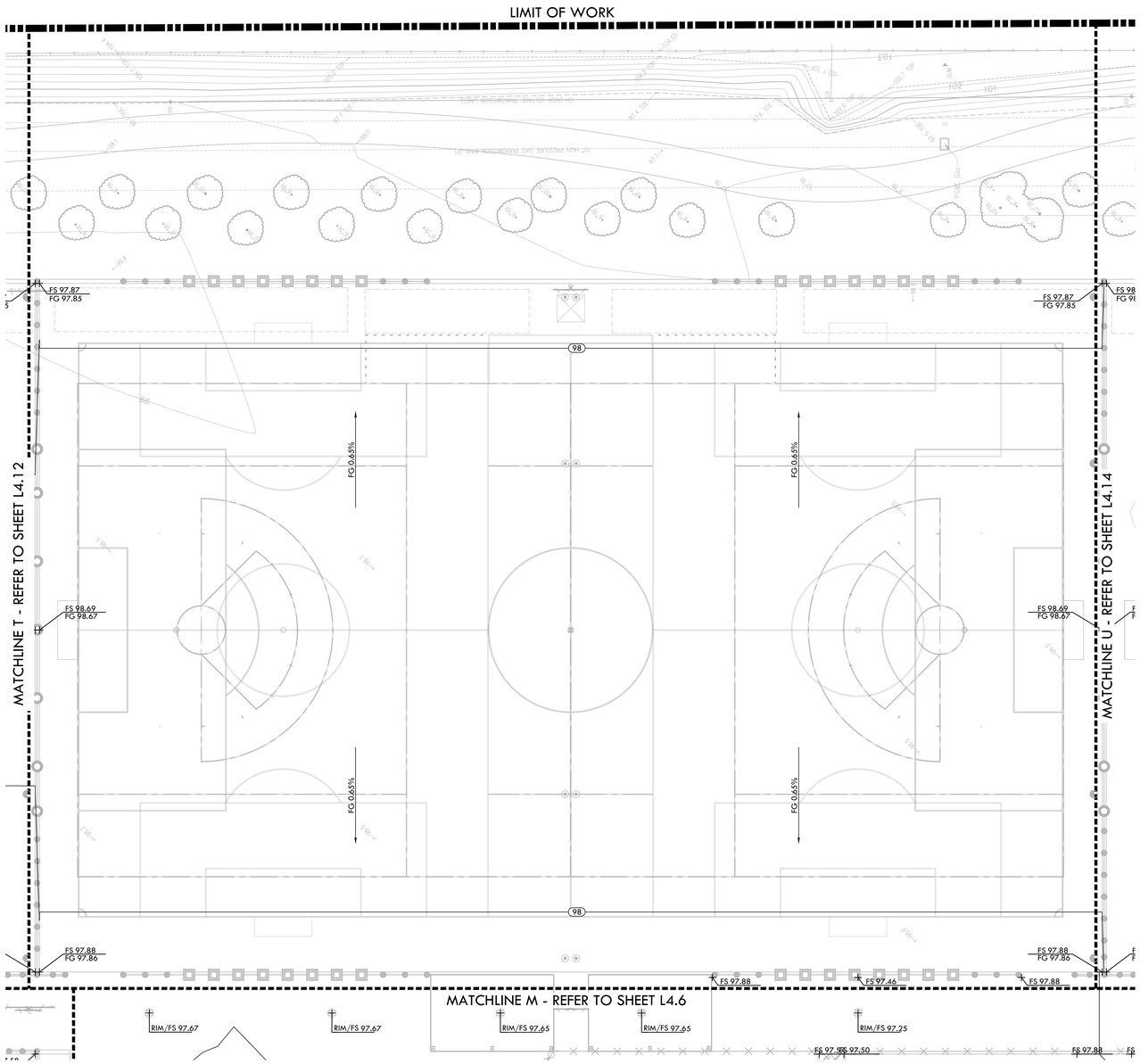

GRADING NOTES

1. EXISTING GRADES ARE BASED ON INFORMATION PROVIDED BY: KIER + WRIGHT. CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE START OF GRADING, NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
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4. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

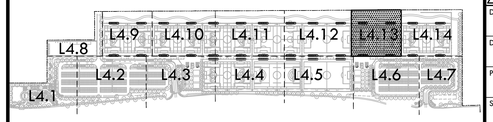
GRADING LEGEND

SYM.	DESCRIPTION
00	PROPOSED CONTOUR
SG 30	PROPOSED SUBGRADE CONTOUR
FG 32.00	PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE
FT 32.00	PROPOSED ELEVATION OF TOP OF SYNTHETIC TURF INFILL
FS 32.00	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE
HP 32.00	HIGH POINT/ HIGH POINT OF SWALE
RIM 31.00	LOW POINT/ RIM ELEVATION OF DRAIN
SG 32.00	PROPOSED FINISH SUGRADE ELEVATION
TC 32.50	TOP OF CURB
TW 34.00	TOP OF WALL
FF 99.00	FINISHED FLOOR ELEVATION
TD 99.00	TOP OF TRENCH DRAIN
	CENTER LINE OF SWALE
R	CROWN OF FIELD, OR RIDGE LINE
L	LOW POINT OF FIELD
	CONFORM TO EXISTING GRADE
	LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
	FLOW DIRECTION IN SOFTSCAPE
102	EXISTING CONTOUR
+ 102.1	EXISTING ELEVATION

NORTH

0' 10' 20' 40' 80'

KEY MAP



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1843 Iron Point Rd. Suite 140
Folsom, CA 95630
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www.VerdeDesignInc.com

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CONSULTANT

SHEET TITLE
GRADING PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY
CHECKED BY
DATE ISSUED 04/29/2022
SCALE 1"=20'-0"
PROJ. NO. 2103800
SHEET NO. L4.13

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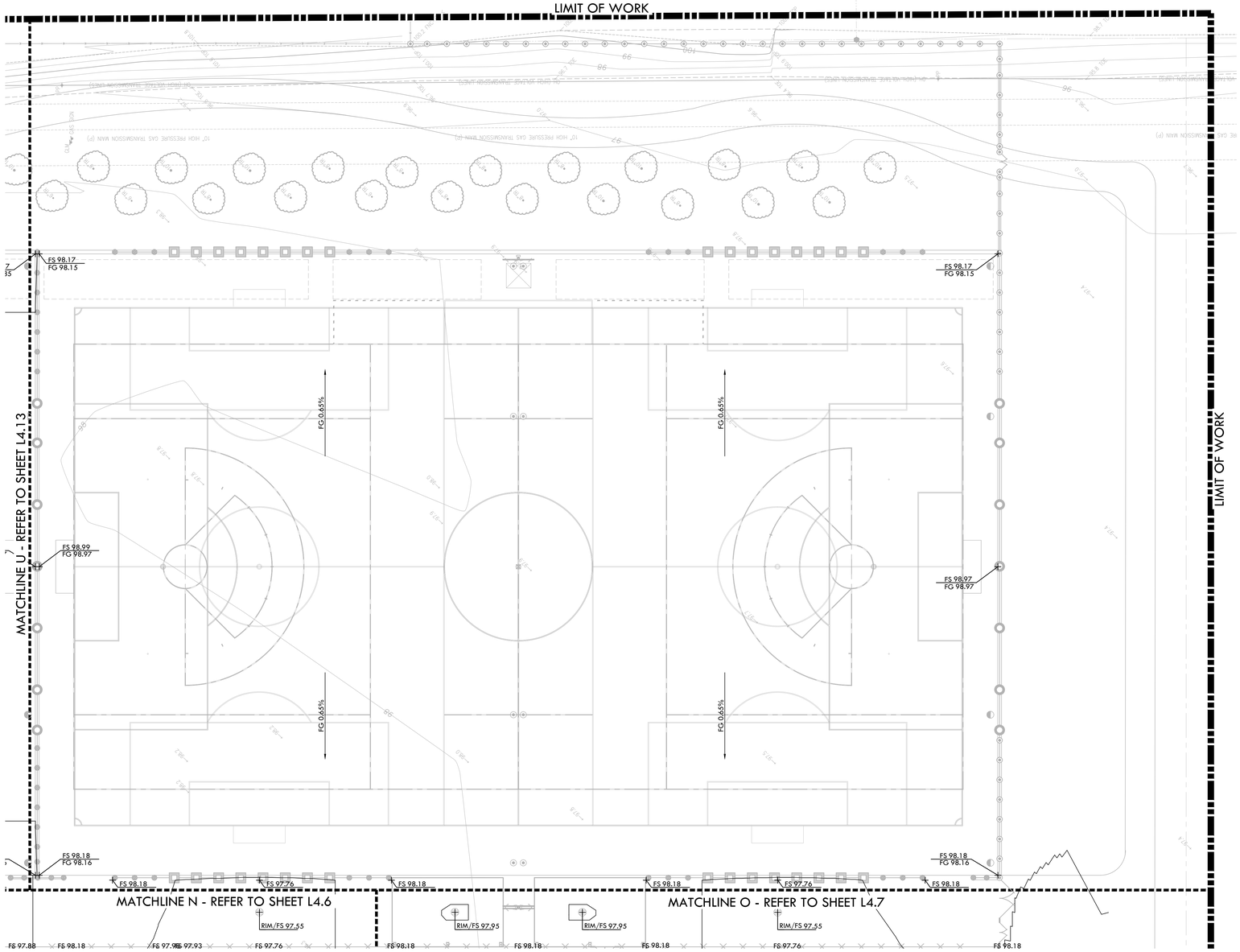
DRAWING NAME: Y:\Projects-FO\2021\2103800 - Roseville 6 Soccer Complex\CAD_GRD-30.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station49



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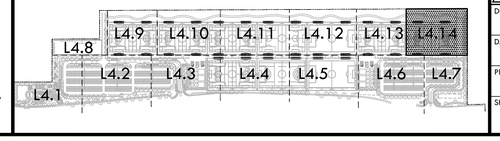
NORTH

0' 10' 20' 40' 80'

KEY MAP



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CONSULTANT

SHEET TITLE
GRADING PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE
1		
2		
3		
4		
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DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
PROJ. NO.: 2103800
SHEET NO.: L4.14

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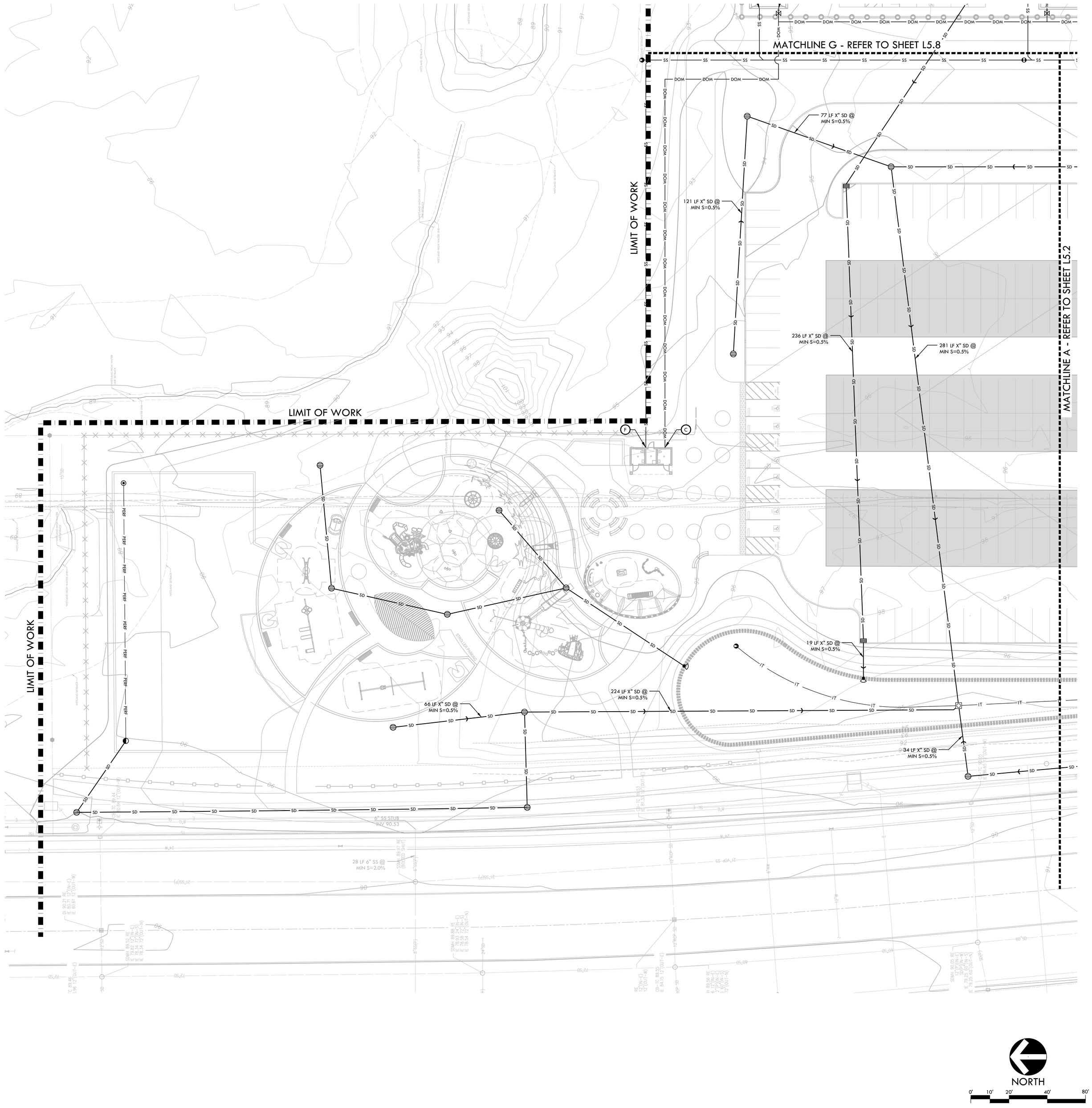
DRAWING NAME: Y:\Projects-FO\2021\2103800 - Roseville 6 Soccer Complex\CAD_GRD-30.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station67



DRAINAGE & UTILITY NOTES

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3. THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
4. COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
5. THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
6. ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SUBGRADING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
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DRAINAGE & UTILITY LEGEND

SYM	DESCRIPTION	DETAIL NUMBER / SHEET NUMBER
	CATCH BASIN, SIZE PER PLAN	B, C / LD1.1
	JUNCTION BOX, SIZE PER PLAN	B, C / LD1.1
	CATCH BASIN, SIZE PER PLAN	B, C / LD1.1
	CURB INLET	A / LD1.1
	CLEANOUT IN SYNTHETIC TURF	O / LD1.1
	CLEANOUT LANDSCAPE PLANTER	P / LD1.1
	CLEANOUT IN SOFTSCAPE	Q / LD1.1
	CLEANOUT IN HARDSCAPE	R / LD1.1
	SANITARY SEWER CLEANOUT	H / LD1.1
	NIBCO GATE VALVES 2" AND SMALLER SHALL BE NIBCO T-113 LF. FOR VALVES ABOVE 2" IN SIZE UTILIZE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT.	M / LD1.1
	SANITARY SEWER MANHOLE	E / LD1.1
	ENERGY DISSIPATOR	G / LD1.2
SD	SOLID WALL STORM DRAIN	J / LD1.1
PERF	PERFORATED SUBDRAIN LINE	N / LD1.1
SS	SANITARY SEWER LINE	G / LD1.1
DOM	DOMESTIC WATER LINE	I / LD1.1
	BOTTOM OF BIORETENTION AREA	F / LD1.2
A	DOMESTIC WATER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS.	
B	DOMESTIC WATER CONNECTION TO DRINKING FOUNTAIN.	
C	DOMESTIC WATER CONNECTION TO BUILDING.	
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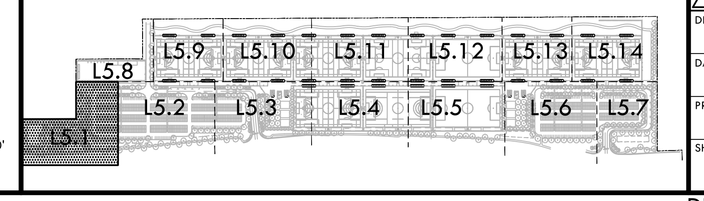
H	DOWNSPOUT CONNECTION	B / LD1.2
(E)	EXISTING	
CB	CATCH BASIN	
INV	INVERT	
RIM	RIM ELEVATION	
LF	LINEAR FEET	
CO	CLEANOUT	
S=0.5%	SLOPE	
MIN.	MINIMUM	
N, S, W EA,	NORTH, SOUTH, WEST, EAST	

KEY MAP



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Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
DRAINAGE AND UTILITY PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

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3		
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DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
PROJ. NO.: 2103800
SHEET NO.: L5.1

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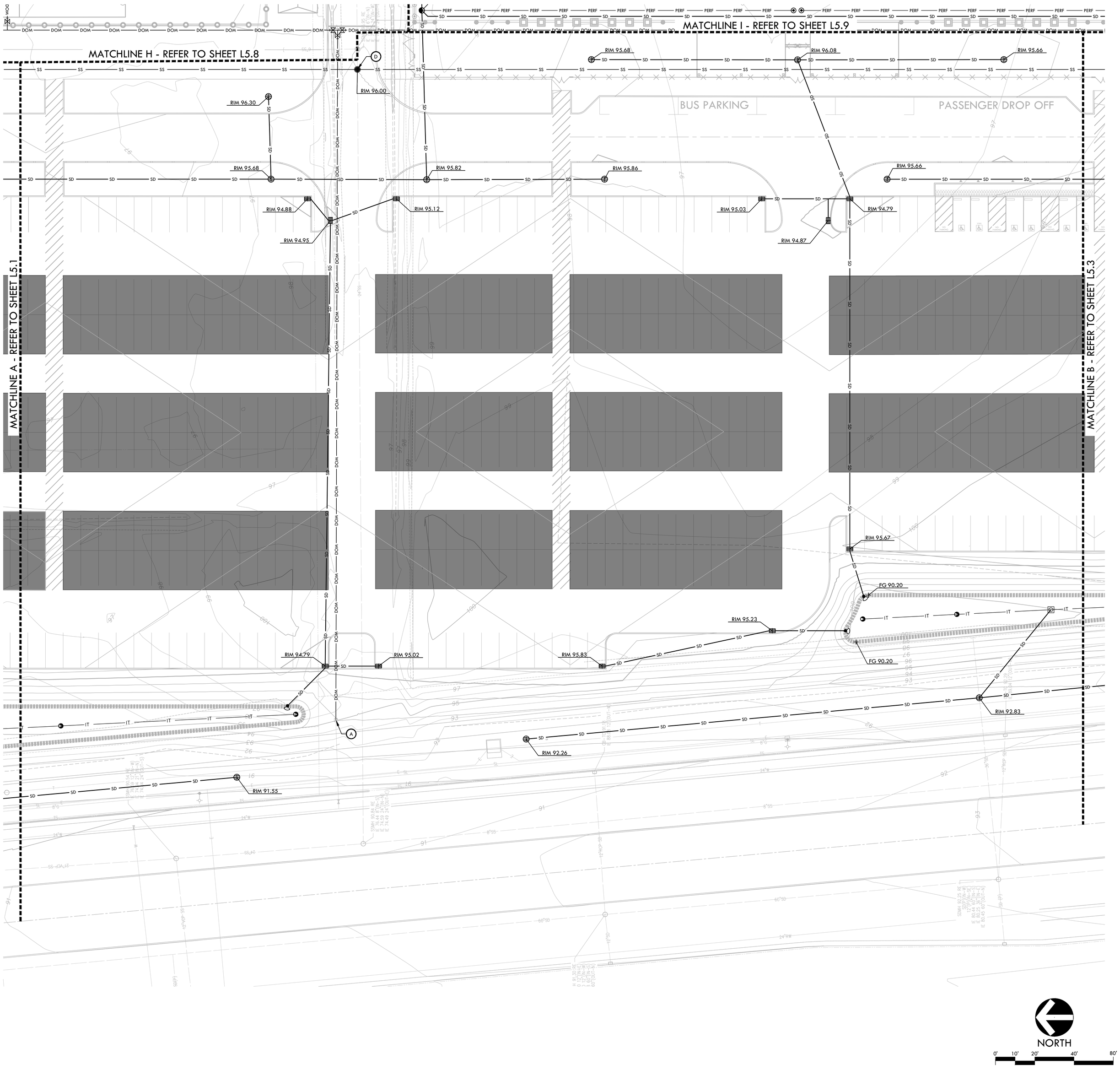
DRAWING NAME: X:\Projects-FY\2021\2103800 - Roseville 6 Soccer Complex\CAD_DRN-3D.dwg
PLOT DATE: 06-24-22 PLOTTED BY: stations46



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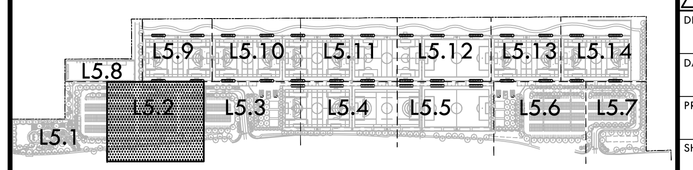

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SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

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DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
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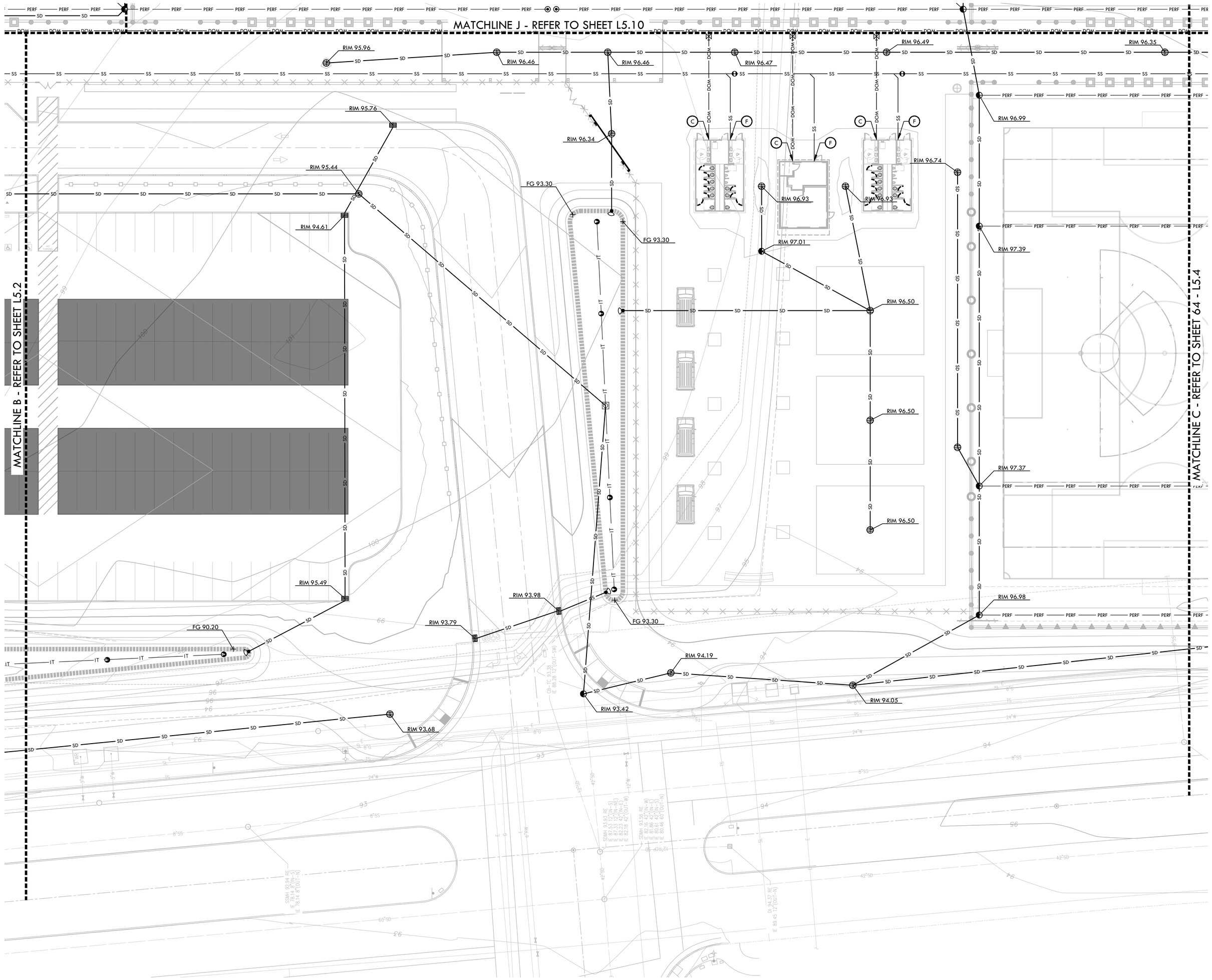

DRAINAGE & UTILITY NOTES

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4. COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
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DRAINAGE & UTILITY LEGEND

SYM	DESCRIPTION	DETAIL NUMBER / SHEET NUMBER
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	JUNCTION BOX, SIZE PER PLAN	B, C / LD1.1
	CATCH BASIN, SIZE PER PLAN	B, C / LD1.1
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	CLEANOUT IN SYNTHETIC TURF	O / LD1.1
	CLEANOUT LANDSCAPE PLANTER	P / LD1.1
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	SANITARY SEWER MANHOLE	E / LD1.1
	ENERGY DISSIPATOR	G / LD1.2
SD	SOLID WALL STORM DRAIN	J / LD1.1
PERF	PERFORATED SUBDRAIN LINE	N / LD1.1
SS	SANITARY SEWER LINE	G / LD1.1
DOM	DOMESTIC WATER LINE	I / LD1.1
	BOTTOM OF BIORETENTION AREA	F / LD1.2
A	DOMESTIC WATER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS.	
B	DOMESTIC WATER CONNECTION TO DRINKING FOUNTAIN.	
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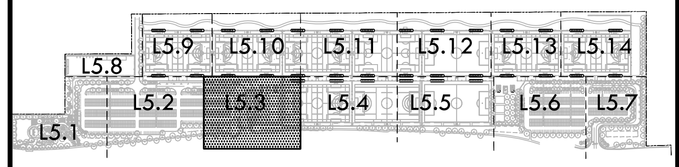
KEY MAP



NORTH

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VERDE DESIGN
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CIVIL ENGINEERING
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1843 Iron Point Rd. Suite 140
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tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

CONSULTANT

SHEET TITLE
DRAINAGE AND UTILITY PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY

DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"

PROJ. NO. 2103800

SHEET NO. L5.3

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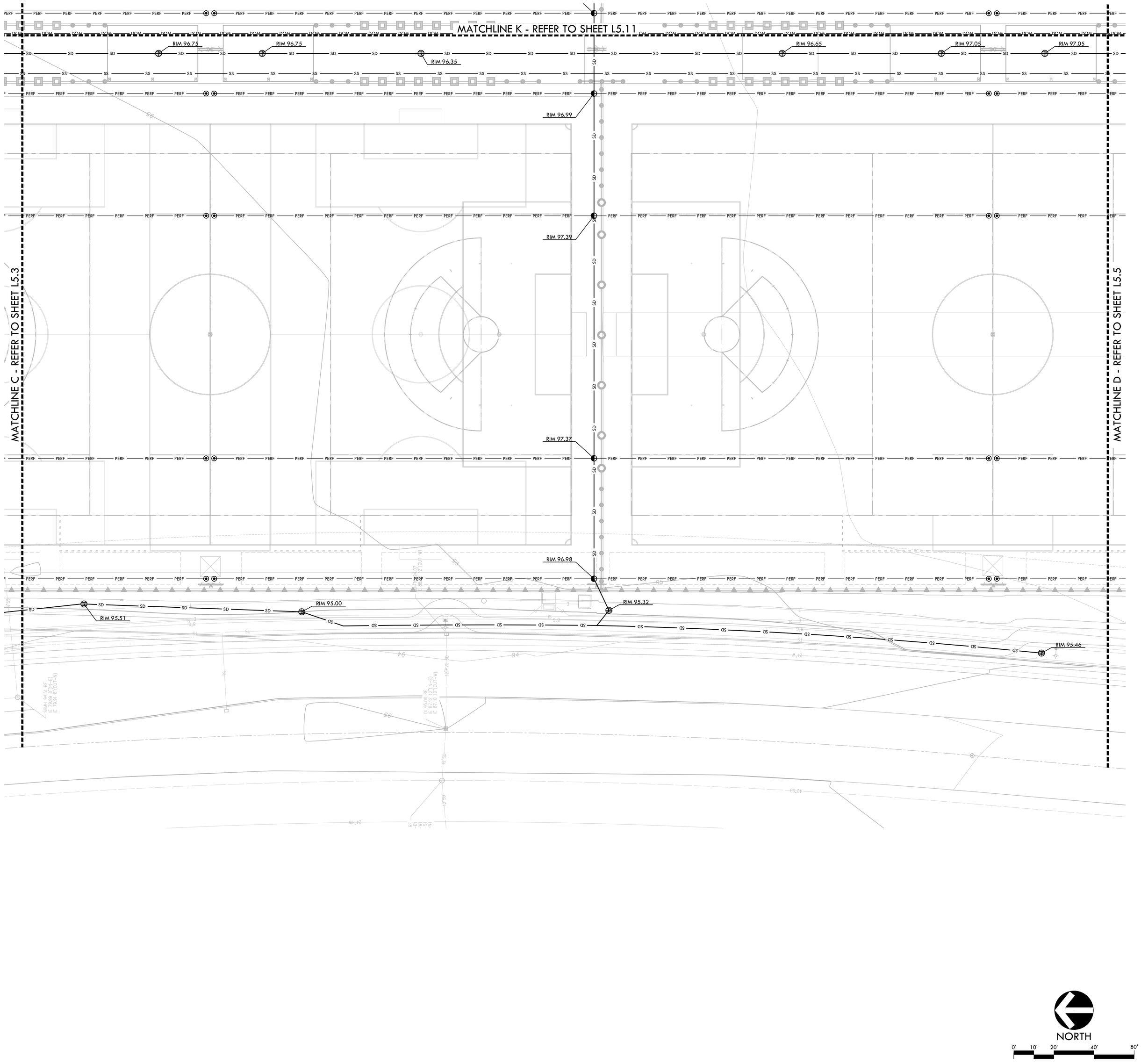
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RIM 97.37
RIM 96.98
RIM 95.51
RIM 95.00
RIM 95.32
RIM 95.46
SD
SS
PERF
DOM
STORM 24.51 INE
IE 87.21 (10'-4")
IE 79.91 (10'-4")
DI 95.01 INE
IE 87.71 (10'-4")
IE 87.21 (10'-4")
12"PVC SS
12"PVC SS
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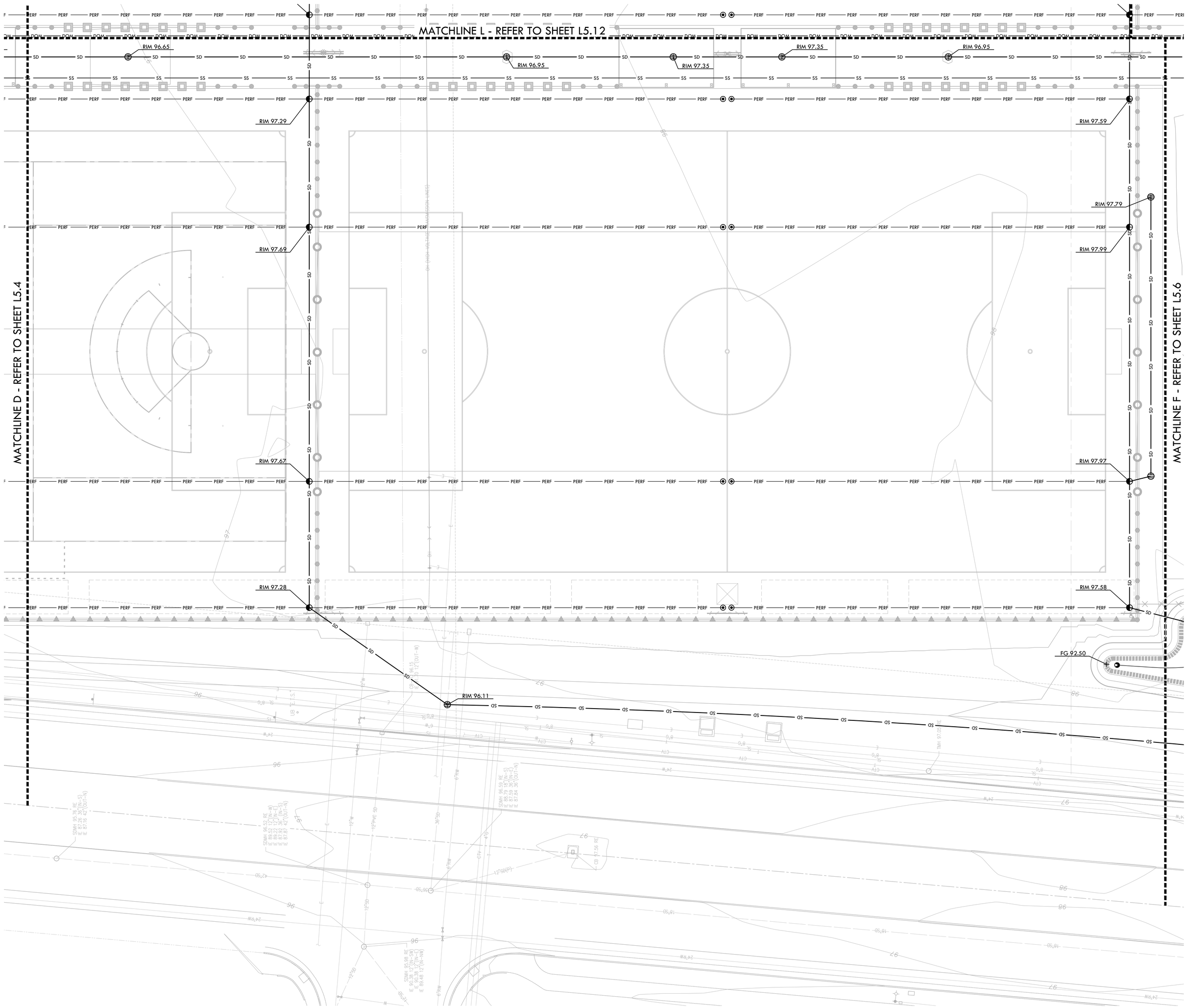

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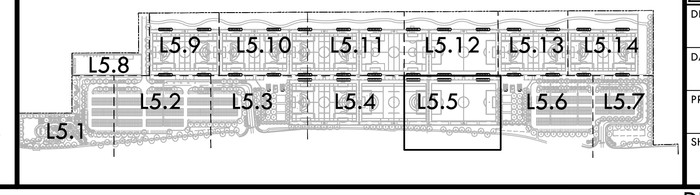

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SHEET TITLE
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ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY
DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
PROJ. NO.: 2103800
SHEET NO.: L5.5

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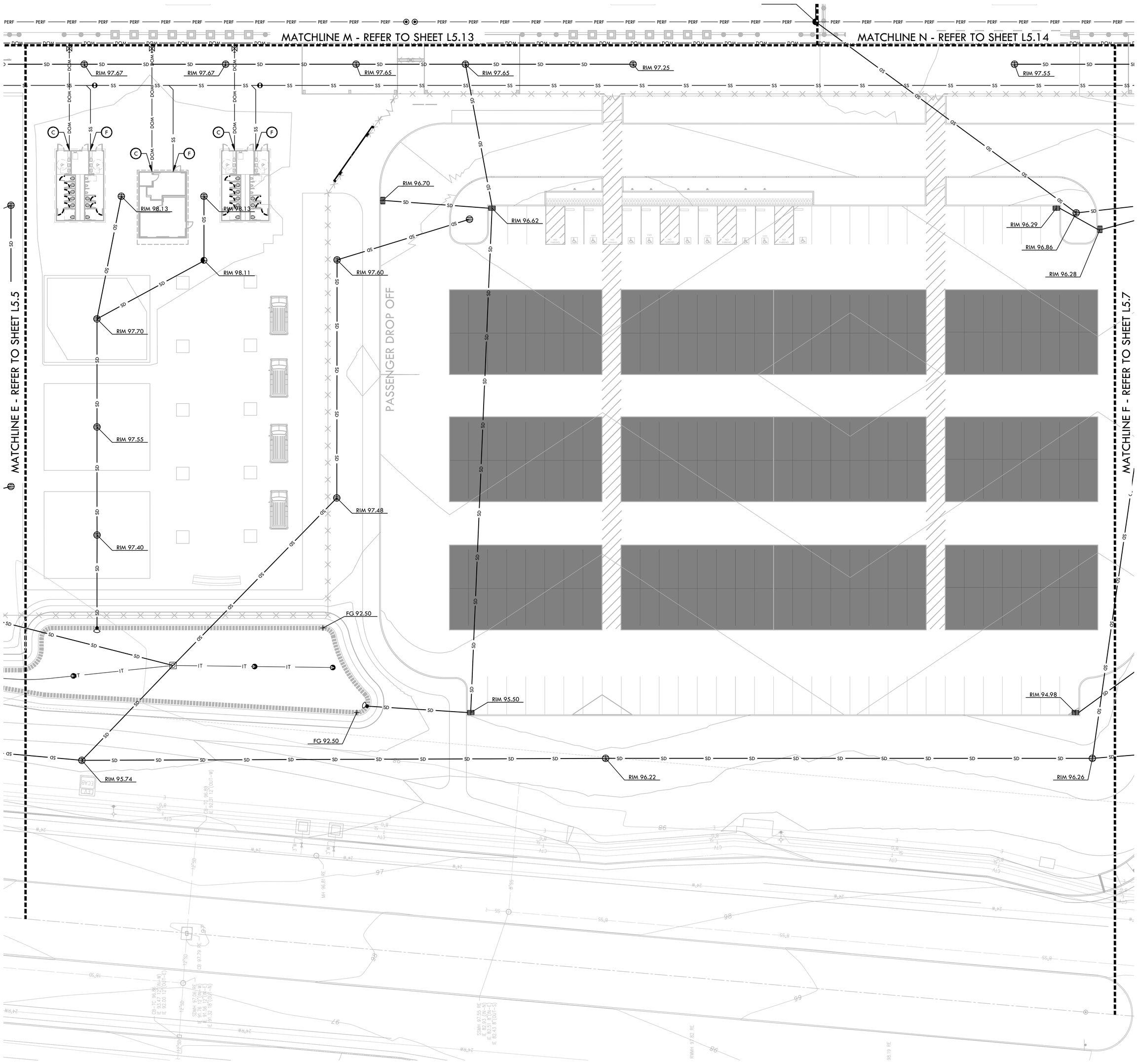
DRAWING NAME: Y:\Projects-FO\2021\2103800 - Roseville 6 Soccer Complex\CAD_DRN-3D.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station67



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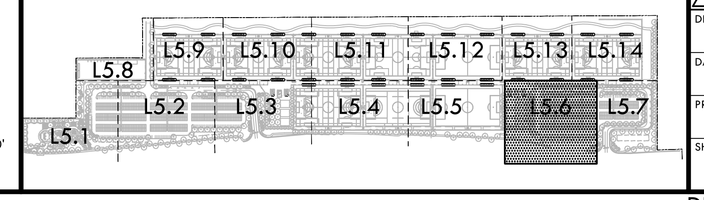

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STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
DRAINAGE AND UTILITY PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
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SUBMITTAL	DATE
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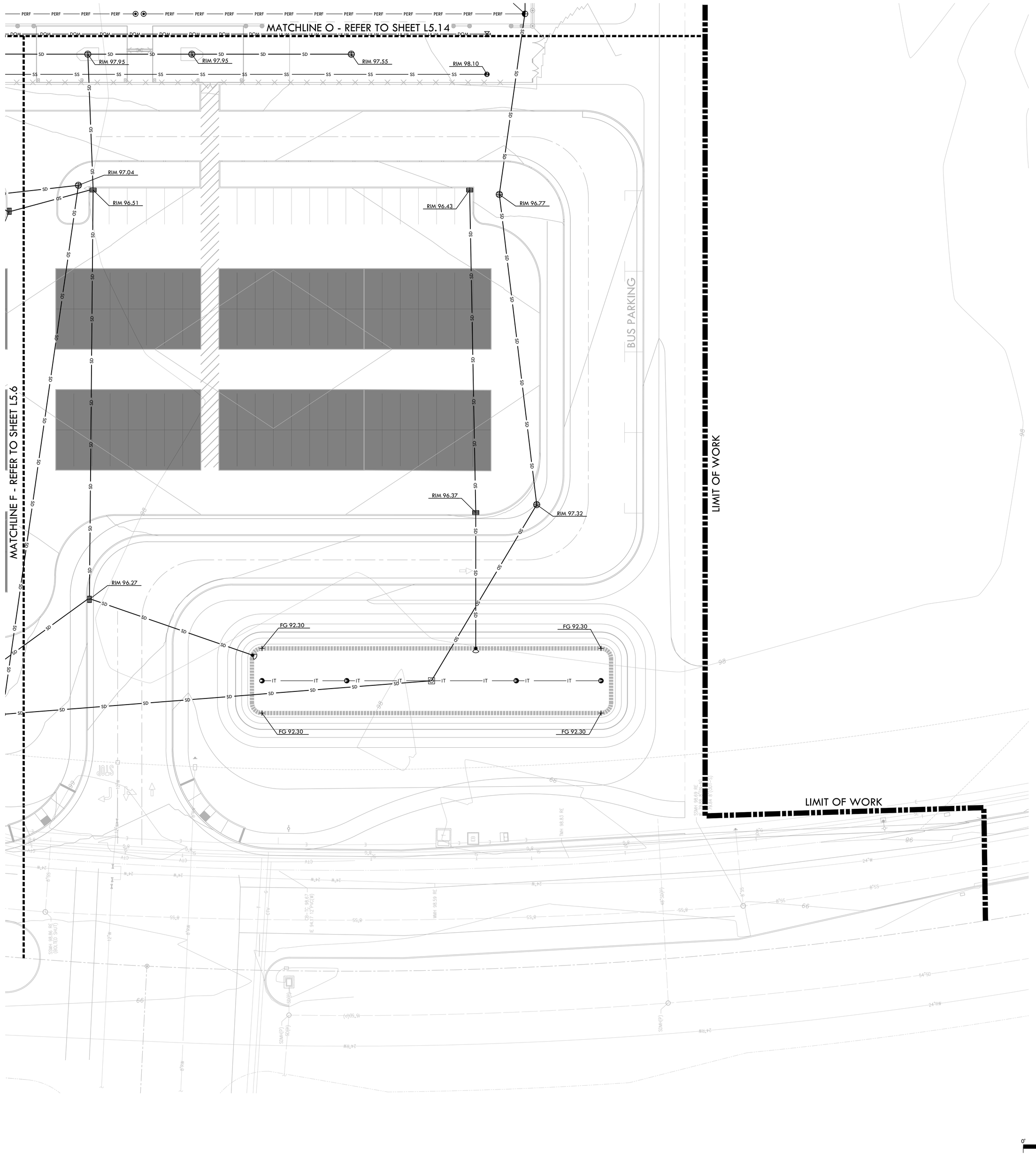
DRAWING NAME: Y:\Projects-FO\2021\2103800 - Roseville 6 Soccer Complex\CAD_DRN-30.dwg
PLOT DATE: 04-29-22 PLOTTED BY: station46



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DRAINAGE & UTILITY LEGEND

SYM	DESCRIPTION	DETAIL NUMBER / SHEET NUMBER
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	JUNCTION BOX, SIZE PER PLAN	B, C / LD1.1
	CATCH BASIN, SIZE PER PLAN	B, C / LD1.1
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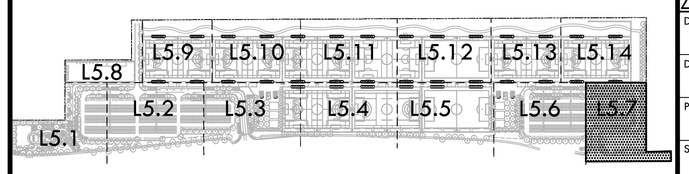

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VERDE DESIGN
LANDSCAPE ARCHITECTURE
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fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

CONSULTANT

SHEET TITLE
DRAINAGE AND UTILITY PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY

DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"

PROJ. NO. 2103800

SHEET NO. L5.7

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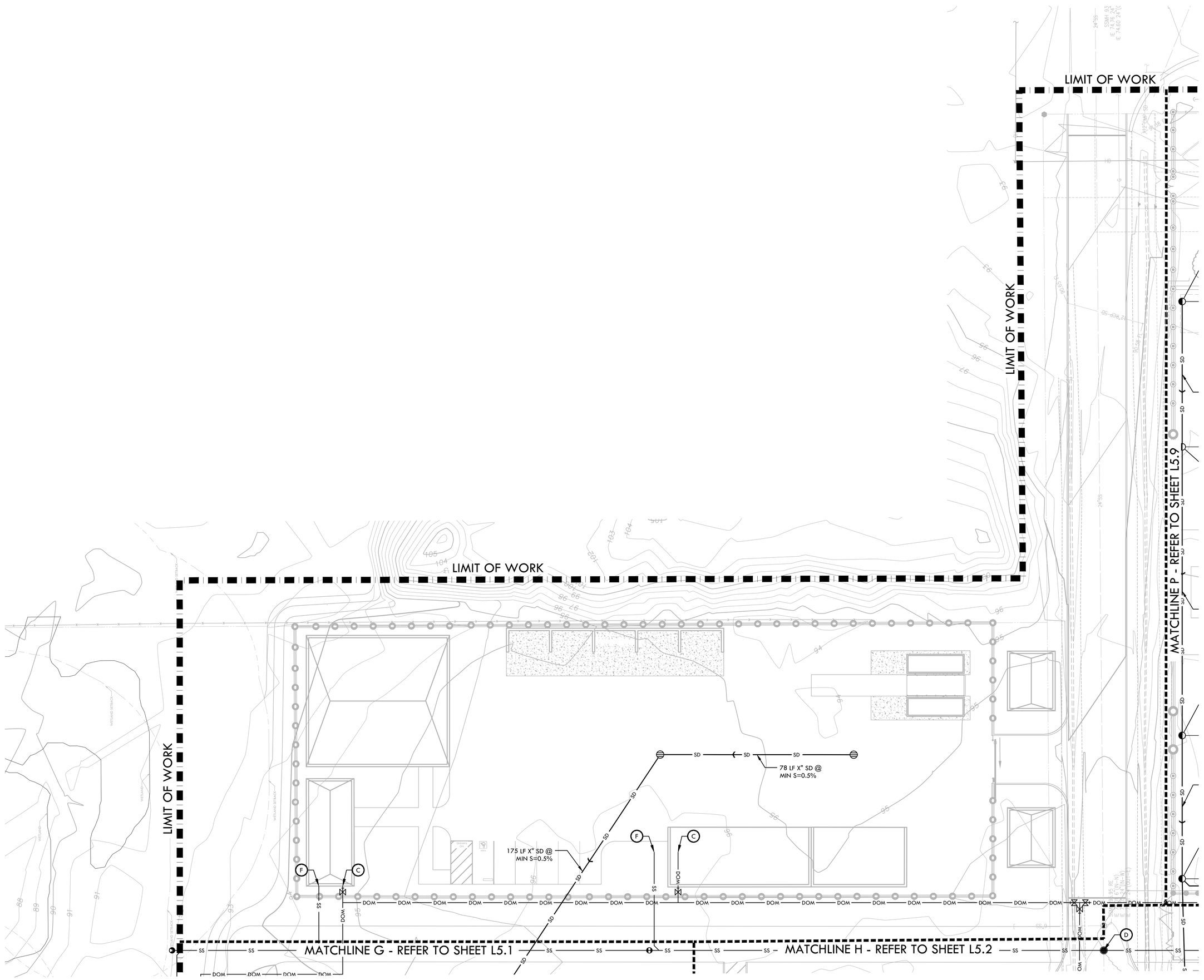
DRAWING NAME: Y:\Projects-FD\2021\2103800 - Roseville E Soccer Complex\CAD_DRN-30.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station67



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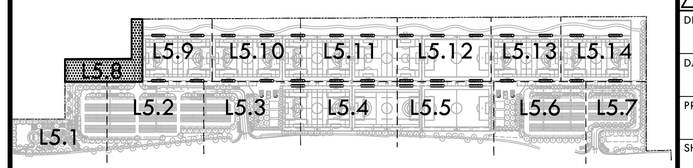

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www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
DRAINAGE AND UTILITY PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY
DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"
PROJ. NO. 2103800
SHEET NO. L5.8

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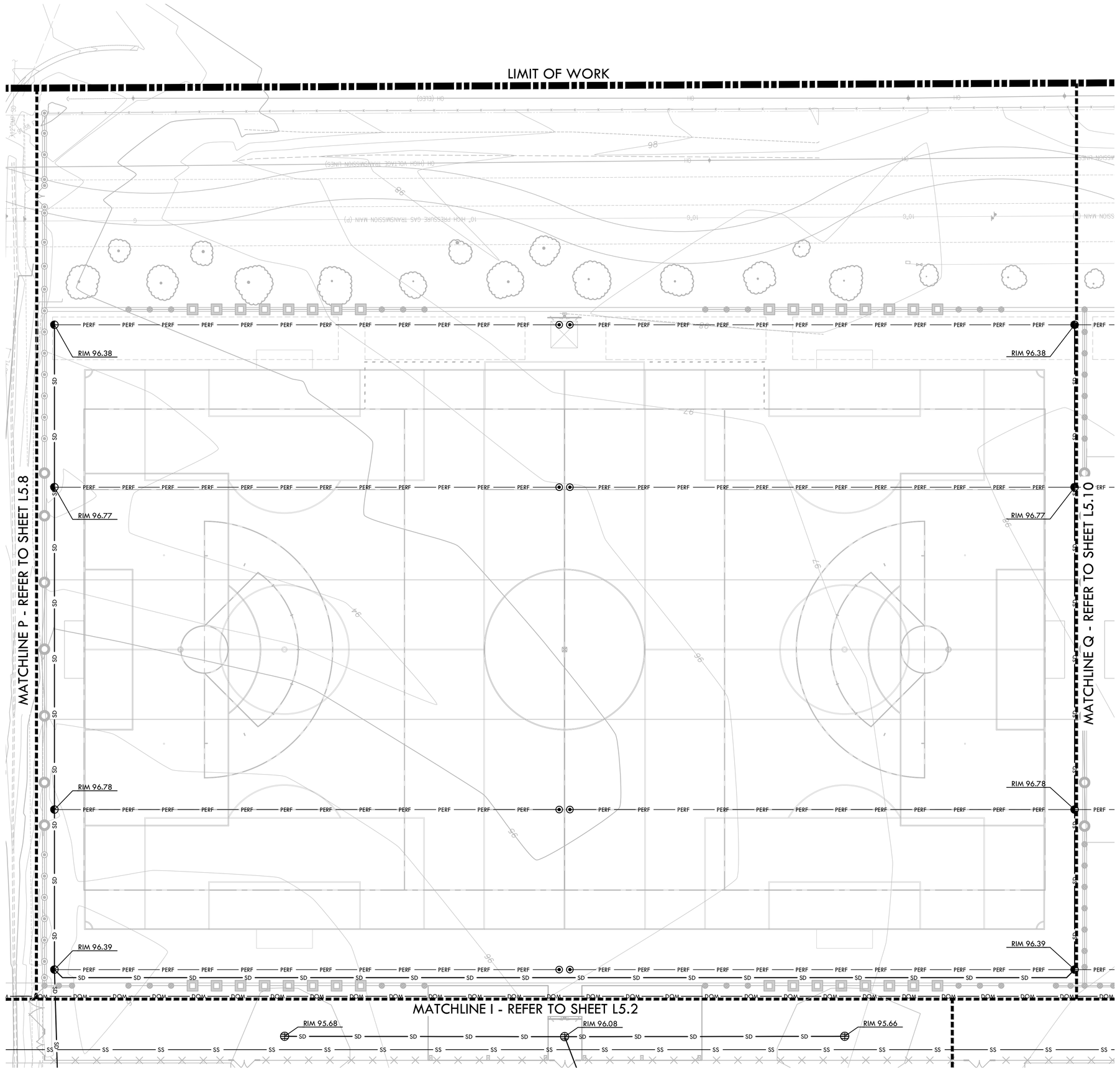
PLOT DATE: 06-24-22 PLOTTED BY: station46



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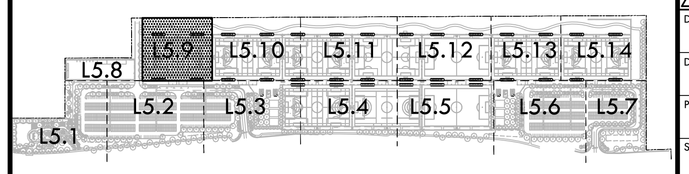

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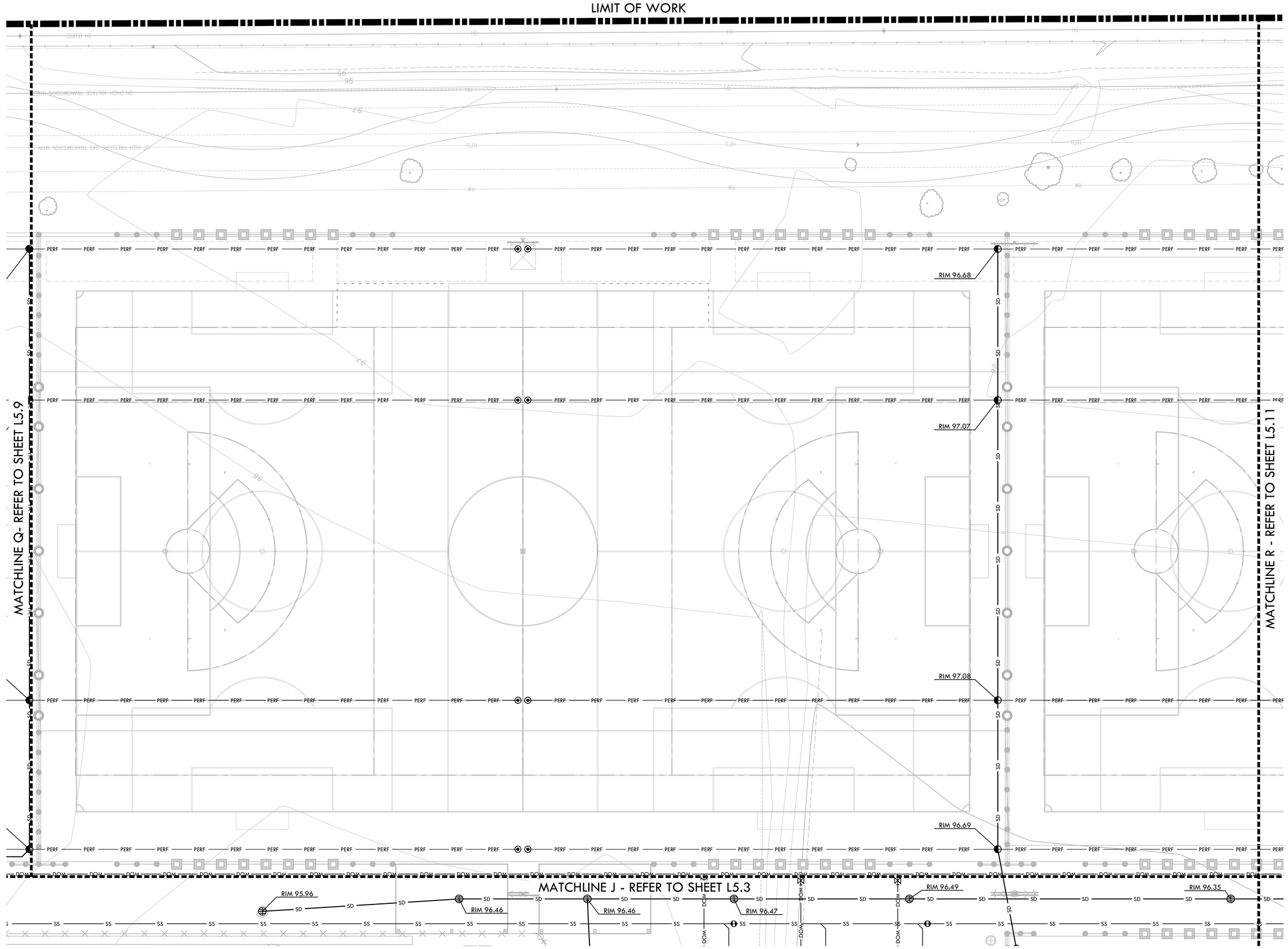
DRAWING NAME: Y:\Projects-FO\2021\2103800 - Roseville & Soccer Complex\CAD_DRN-3D.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station67



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	SANITARY SEWER MANHOLE	E / LD1.1
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SD	SOLID WALL STORM DRAIN	J / LD1.1
PERF	PERFORATED SUBDRAIN LINE	N / LD1.1
SS	SANITARY SEWER LINE	G / LD1.1
DOM	DOMESTIC WATER LINE	I / LD1.1
	BOTTOM OF BIORETENTION AREA	F / LD1.2
A	DOMESTIC WATER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS.	
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E	SANITARY SEWER CONNECTION TO DRINKING FOUNTAIN.	
F	SANITARY SEWER CONNECTION TO BUILDING.	
G	STORM DRAIN POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION AND INVERT PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO OWNER IN WRITING.	
H	DOWNSPOUT CONNECTION	B / LD1.2
(E)	EXISTING	
CB	CATCH BASIN	
INV	INVERT	
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S=0.5%	SLOPE	
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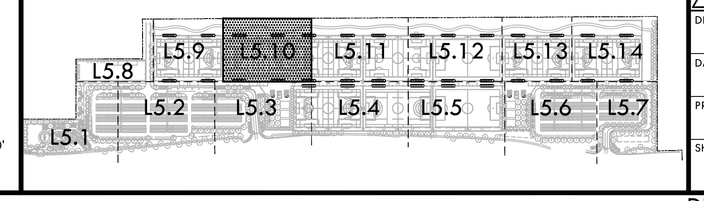
N, S, W EA,	NORTH, SOUTH, WEST, EAST	

KEY MAP



NORTH

0' 10' 20' 40' 80'

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CIVIL ENGINEERING
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1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

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CONSULTANT

SHEET TITLE
DRAINAGE AND UTILITY PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY | CHECKED BY
DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
PROJ. NO.: 2103800
SHEET NO.: L5.10

DRAINAGE AND UTILITY PLAN

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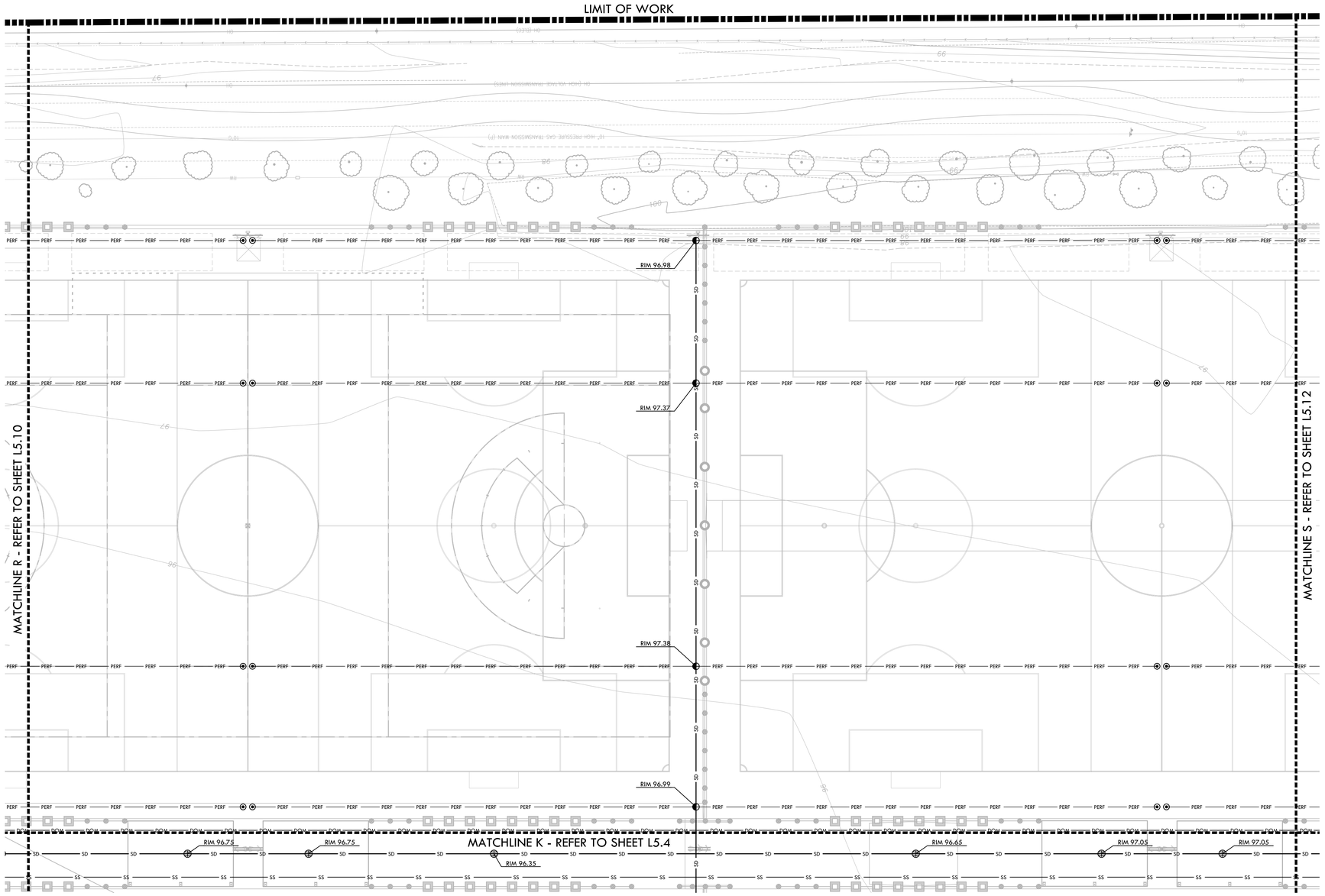
PLOT DATE: 04-28-22 PLOTTED BY: station67



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2. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.
3. THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
4. COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
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6. ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SUBGRADING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
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8. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.

DRAINAGE & UTILITY LEGEND

SYM	DESCRIPTION	DETAIL NUMBER / SHEET NUMBER
	CATCH BASIN, SIZE PER PLAN	B, C / D1.1
	JUNCTION BOX, SIZE PER PLAN	B, C / D1.1
	CATCH BASIN, SIZE PER PLAN	B, C / D1.1
	CURB INLET	A / D1.1
	CLEANOUT IN SYNTHETIC TURF	O / D1.1
	CLEANOUT LANDSCAPE PLANTER	P / D1.1
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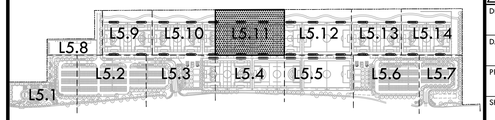

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CONSULTANT

SHEET TITLE
DRAINAGE AND UTILITY PLAN

PROJECT NAME
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PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE 1"=20'-0"
PROJ. NO. 2103800	
SHEET NO. L5.11	

DRAINAGE AND UTILITY PLAN

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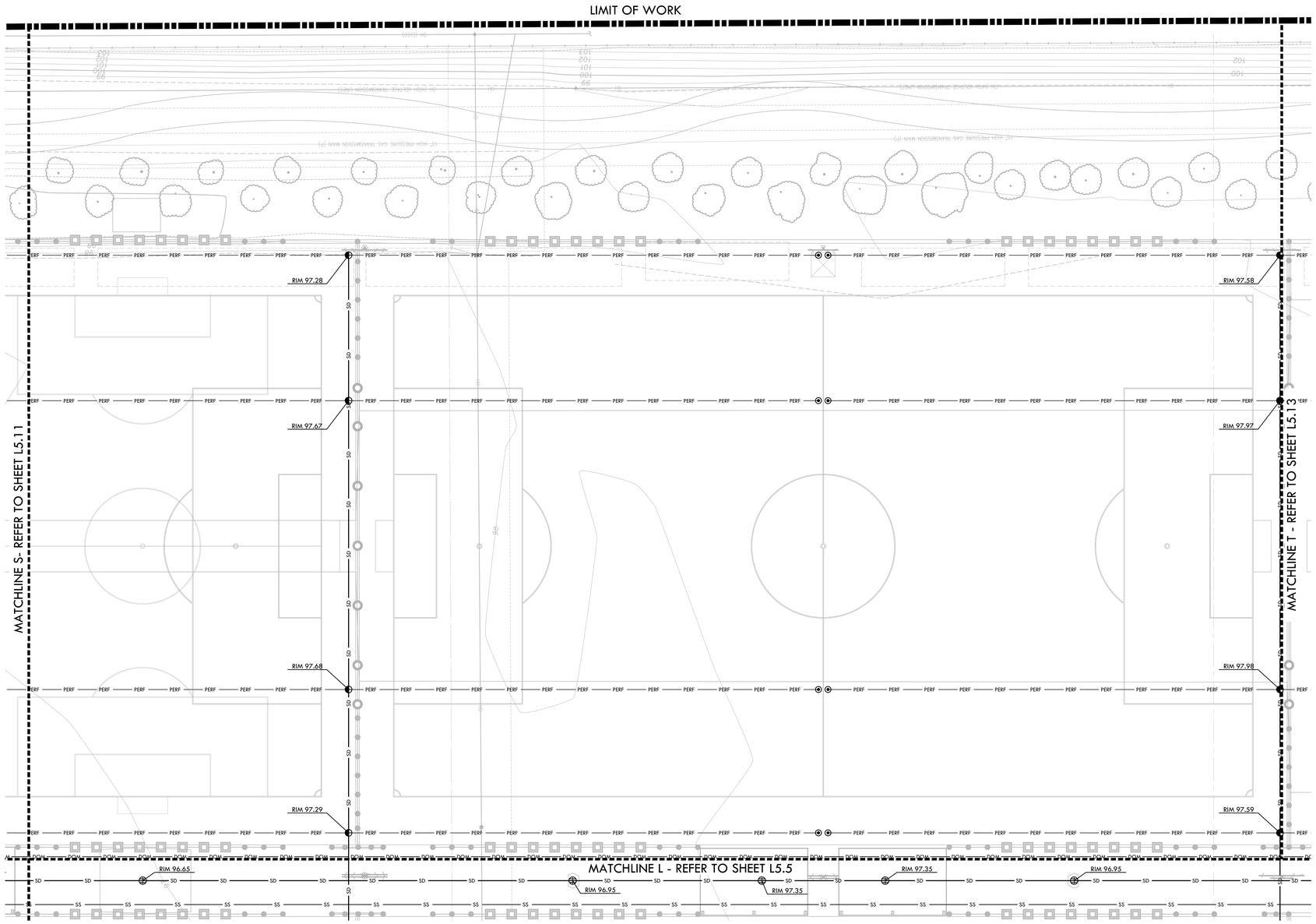
PLOT DATE: 04-28-22 PLOTTED BY: station87



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DRAINAGE & UTILITY LEGEND

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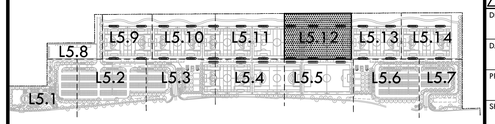
KEY MAP



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ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

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DRAWN BY | CHECKED BY
DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
PROJ. NO.: 2103800
SHEET NO.: L5.12

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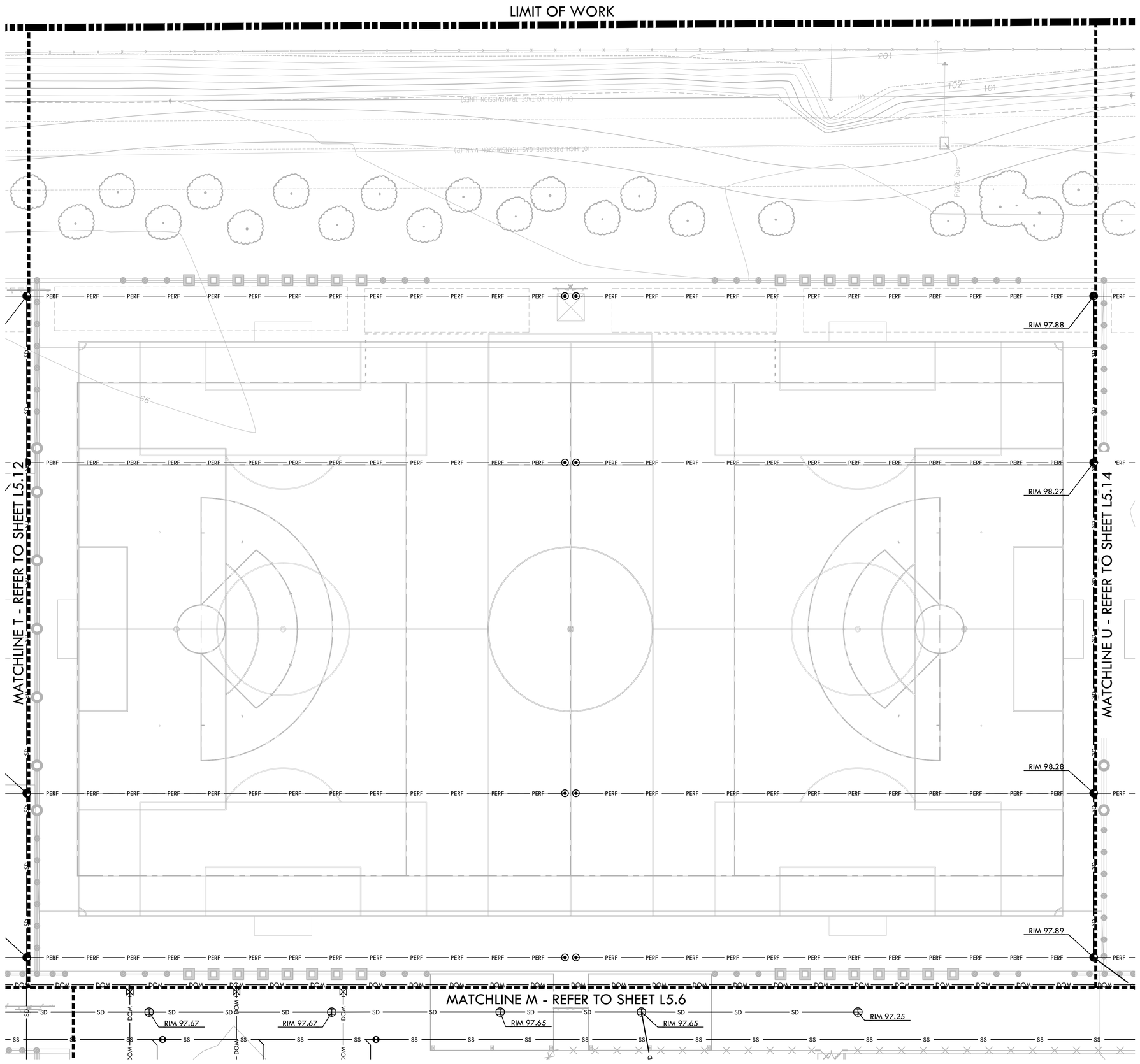
PLOT DATE: 04-28-22 PLOTTED BY: station67



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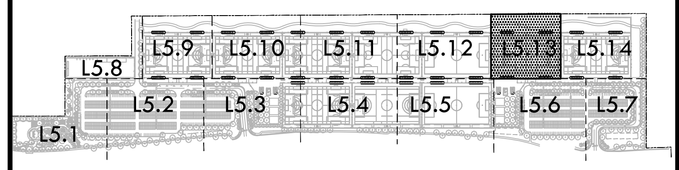

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fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

CONSULTANT

SHEET TITLE
DRAINAGE AND UTILITY PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY

DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"

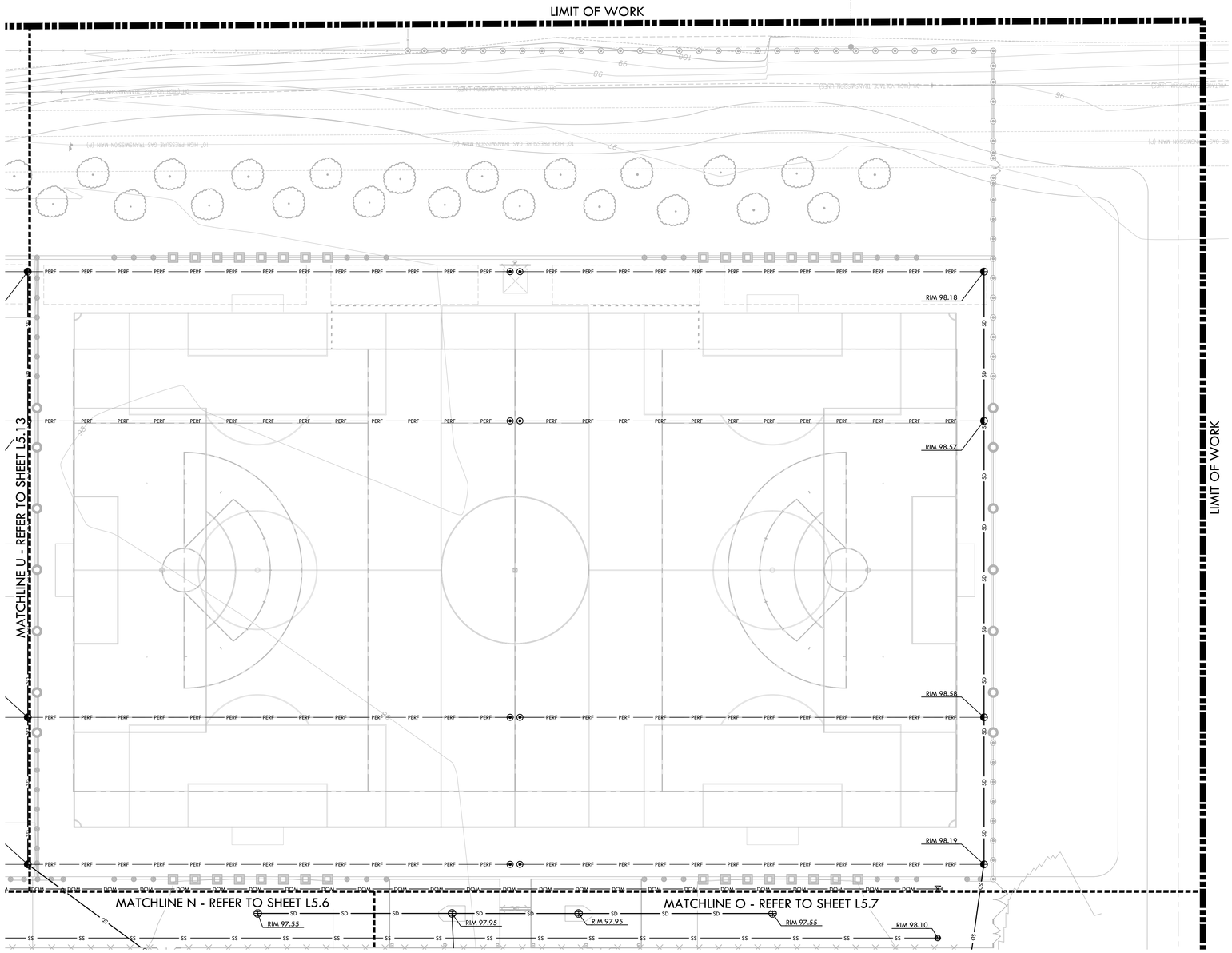
PROJ. NO. 2103800

SHEET NO. L5.13

DRAINAGE AND UTILITY PLAN

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON OR ENTITY FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC. IN THE EVENT OF UNAUTHORIZED REUSE OF THESE PLANS BY ANY PARTY FOR ANY OTHER PROJECT, VERDE DESIGN, INC. SHALL BE PAID FOR THE ENTIRE AGREED UPON FEE FOR ALL PHASES OF WORK FOR WHICH IT WAS ENGAGED TO PROVIDE SERVICES FOR THE PROJECT FOR WHICH THESE PLANS WERE ORIGINALLY PREPARED.

DRAWING NAME: Y:\Projects-FY\2021\2103800 - Roseville 6 Soccer Complex\CAD_DRN-30.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station67



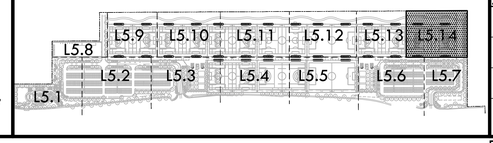
DRAINAGE & UTILITY NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
2. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.
3. THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
4. COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
5. THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
6. ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SUBGRADING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
7. PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POTHOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED.
8. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.

DRAINAGE & UTILITY LEGEND

SYM	DESCRIPTION	DETAIL NUMBER / SHEET NUMBER
	CATCH BASIN, SIZE PER PLAN	B, C / D1.1
	JUNCTION BOX, SIZE PER PLAN	B, C / D1.1
	CATCH BASIN, SIZE PER PLAN	B, C / D1.1
	CURB INLET	A / D1.1
	CLEANOUT IN SYNTHETIC TURF	O / D1.1
	CLEANOUT LANDSCAPE PLANTER	P / D1.1
	CLEANOUT IN SOFTSCAPE	Q / D1.1
	CLEANOUT IN HARDSCAPE	R / D1.1
	SANITARY SEWER CLEANOUT	H / D1.1
	NIBCO GATE VALVES 2" AND SMALLER SHALL BE NIBCO T-113 LF. FOR VALVES ABOVE 2" IN SIZE UTILIZE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT.	M / D1.1
	SANITARY SEWER MANHOLE	E / D1.1
	ENERGY DISSIPATOR	G / D1.2
SD	SOLID WALL STORM DRAIN	J / D1.1
PERF	PERFORATED SUBDRAIN LINE	N / D1.1
SS	SANITARY SEWER LINE	G / D1.1
DOM	DOMESTIC WATER LINE	I / D1.1
	BOTTOM OF BIORETENTION AREA	F / D1.2
A	DOMESTIC WATER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS.	
B	DOMESTIC WATER CONNECTION TO DRINKING FOUNTAIN.	
C	DOMESTIC WATER CONNECTION TO BUILDING.	
D	SANITARY SEWER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION AND INVERT PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO OWNER IN WRITING.	
E	SANITARY SEWER CONNECTION TO DRINKING FOUNTAIN.	
F	SANITARY SEWER CONNECTION TO BUILDING.	
G	STORM DRAIN POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION AND INVERT PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO OWNER IN WRITING.	
H	DOWNSPOUT CONNECTION	B / D1.2
(E)	EXISTING	
CB	CATCH BASIN	
INV	INVERT	
RIM	RIM ELEVATION	
LF	LINEAR FEET	
CO	CLEANOUT	
S=0.5%	SLOPE	
MIN.	MINIMUM	
N, S, W EA,	NORTH, SOUTH, WEST, EAST	

KEY MAP



NORTH

0' 10' 20' 40' 80'

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SHEET NO. L5.14

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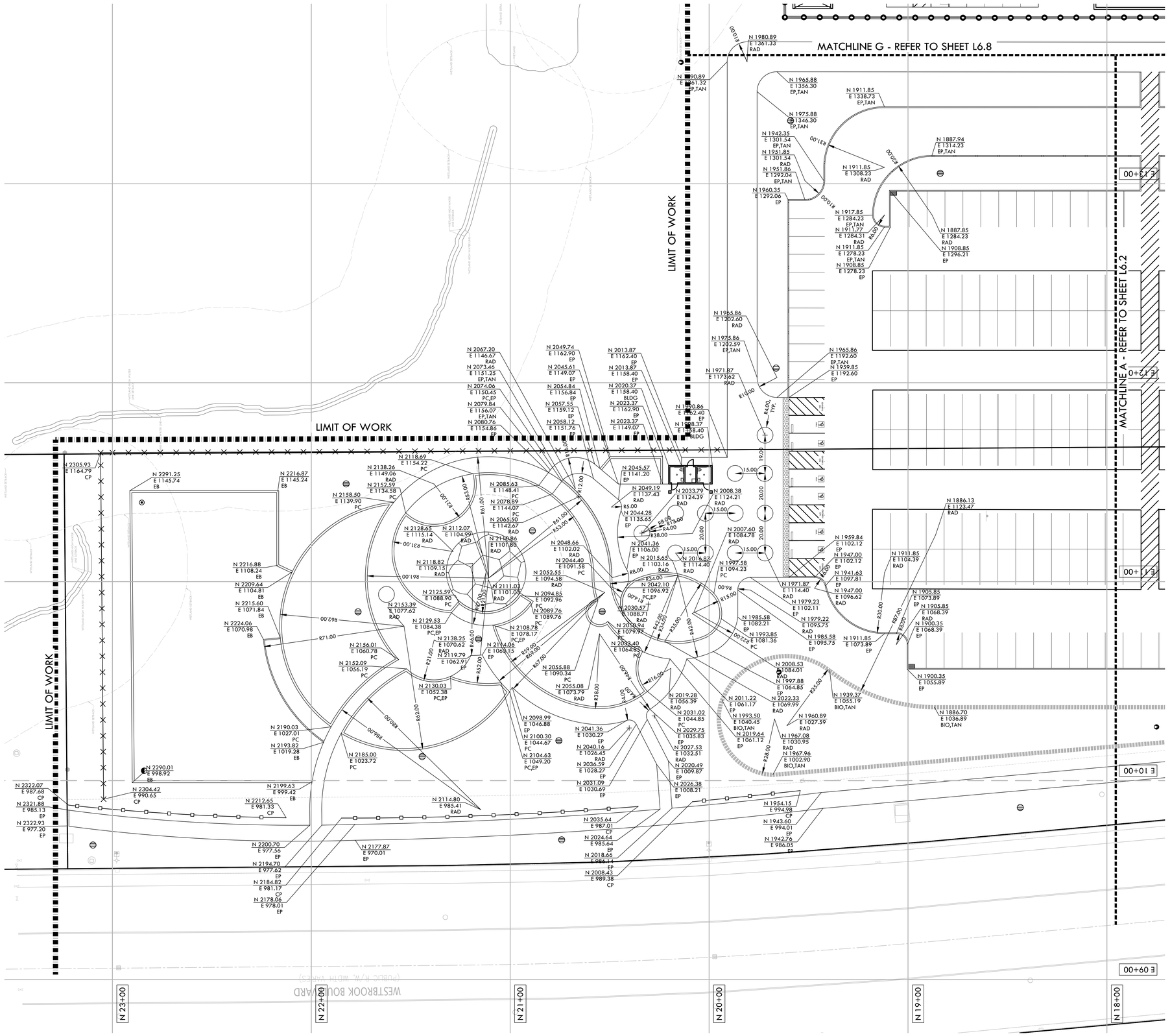

LAYOUT NOTES

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5. SURVEY PROVIDED BY: KIER & WRIGHT (FIELD COMPLETION DATE: 12/02/21, REVISED 01/21/22)
   - 5.1. ELEVATIONS SHOWN HEREON ARE BASED ON NAVD88 DATUM.
   - 5.2. BENCHMARK: 1013 PAT
     2" DISC ON RED POLYROC MONUMENT BLOCK WITH 24" FENO ANCHOR STAMPED "PAT" WITH A CENTER MARK TRIANGLE WITH PUNCH LOCATED 105 FEET SOUTHERLY OF THE CENTERLINE OF DOS RIOS ROAD, 7 FEET SOUTH OF METAL GATE AT THE TOP OF LEVEE. ELEVATION = 28.70 (NAVD88)
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LAYOUT LEGEND

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	ANCHOR POINT FOR CONTROL LINE - LOCATED ON SHEET L6.3
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90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X"	DISTANCE BETWEEN ELEMENTS
	CENTER LINES
	BASELINE
	CONTROL LINE
N 6+21.95 E 4+97.08	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
(BIO)	EDGE OF BIOREMEDIATION BASIN
(BLDG)	CORNER OF BUILDING
(COD)	CENTER OF DRAINAGE STRUCTURE
(CONTROL)	CENTER OF CONTROL POINT
(CP)	CENTER OF POST
(CTD)	CENTER OF TRENCH DRAIN
(CURB)	CURB
(EB)	EDGEBAND
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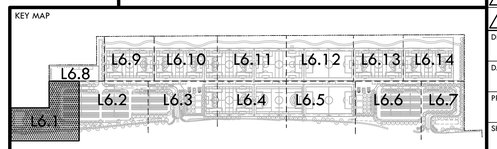
(PC)	EDGE OF PLAY CURB
(POB)	POINT OF BEGINNING FOR GRID LAYOUT
(RAD)	RADIUS POINT
(STRIPING)	EDGE OF STRIPING
(TAN)	TANGENT POINT

NORTH
0' 10' 20' 40' 80'

KEY MAP



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REGISTERED LANDSCAPE ARCHITECT
MARK S. BASINGER
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
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SHEET NO. L6.1	

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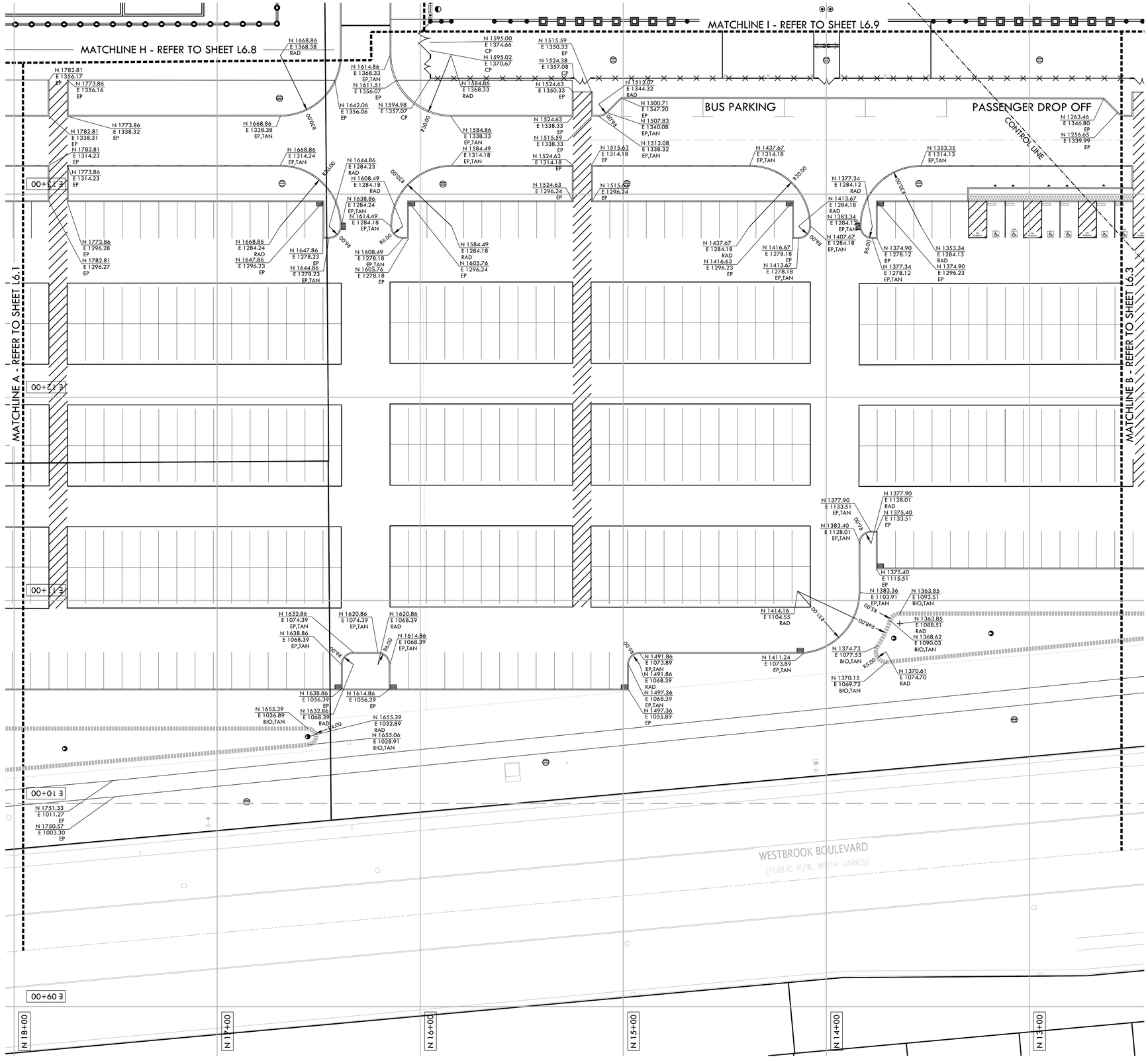
PLOT DATE: 06-24-22 PLOTTED BY: station46



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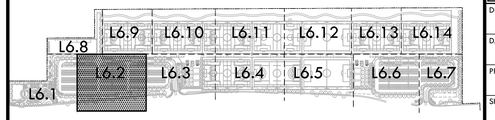
KEY MAP


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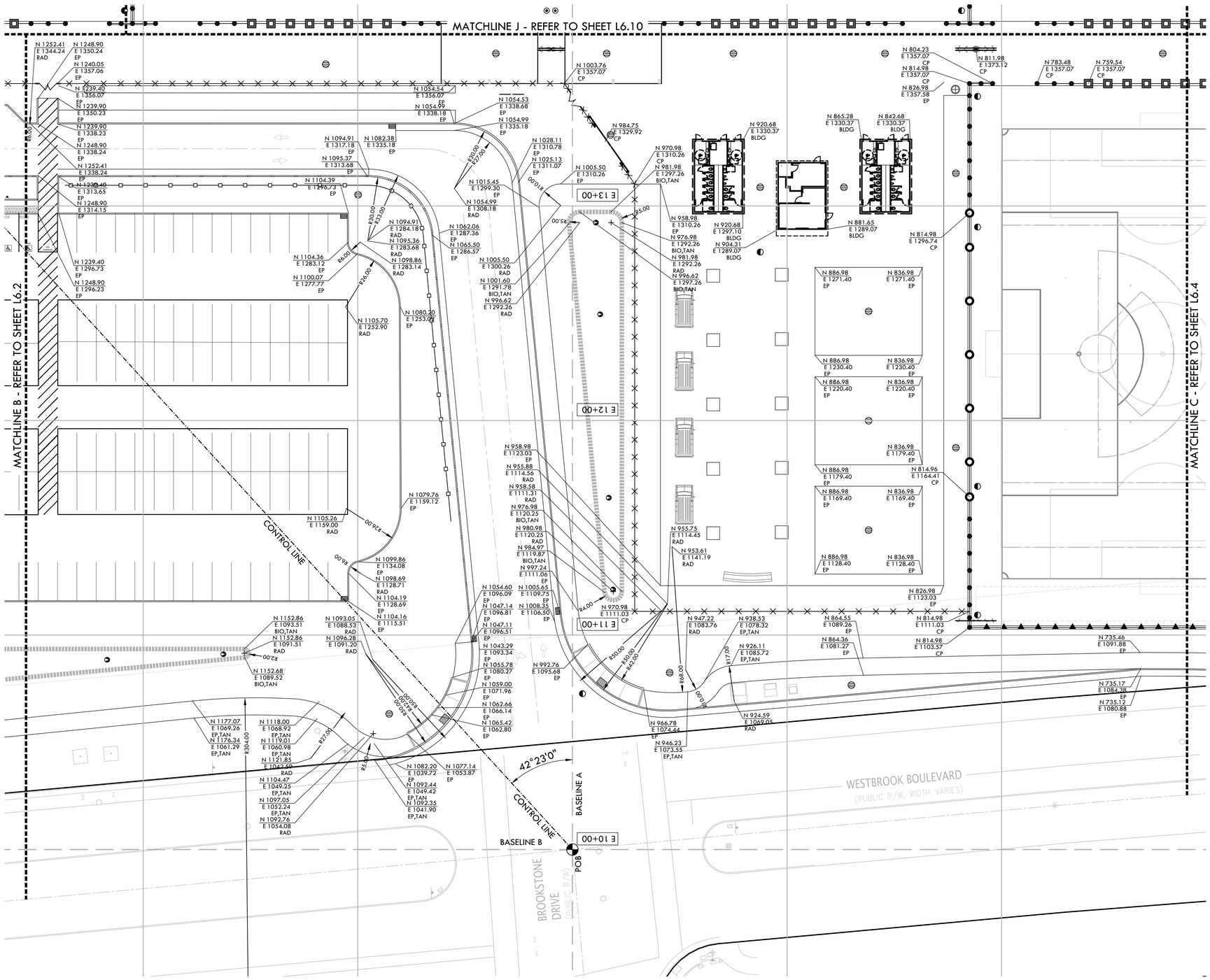

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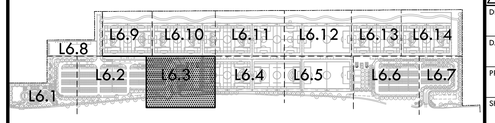

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SHEET NO.: L6.3

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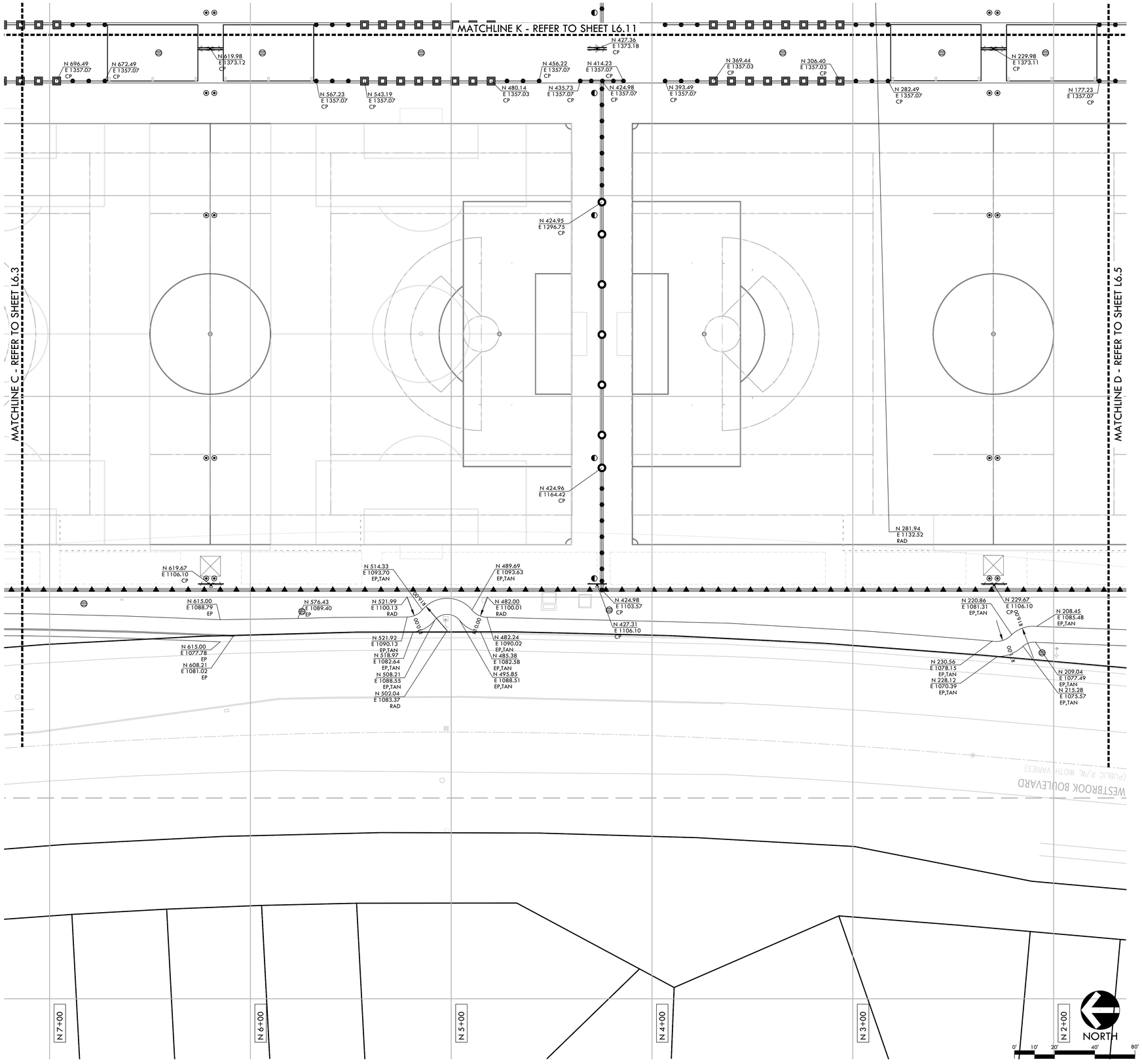
DRAWING NAME: N:\Projects-FO\2021\2103800 - Roseville 6 Soccer Complex\CAD_LAY-RSC.dwg
PLOT DATE: 06-24-22 PLOTTED BY: station46



LAYOUT NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
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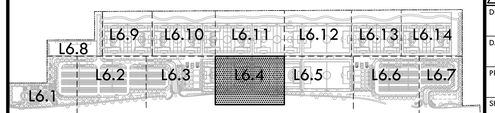
5. SURVEY PROVIDED BY: KIER & WRIGHT (FIELD COMPLETION DATE: 12/02/21, REVISED 01/21/22)
   - 5.1. ELEVATIONS SHOWN HEREON ARE BASED ON NAVD88 DATUM.
   - 5.2. BENCHMARK: 1013 PAT
     2" DISC ON RED POLYROC MONUMENT BLOCK WITH 24" FENO ANCHOR STAMPED "PAT" WITH A CENTER MARK TRIANGLE WITH PUNCH LOCATED 105 FEET SOUTHERLY OF THE CENTERLINE OF DOS RIOS ROAD, 7 FEET SOUTH OF METAL GATE AT THE TOP OF LEVEE. ELEVATION = 28.70 (NAVD88)
   - 5.3. BASIS OF BEARINGS:
     THE BEARING OF NORTH 64°56'12" EAST TAKEN ON THE MONUMENT LINE OF SPARTAN WAY (FORMERLY KNOWN AS LATHROP ROAD) AS SHOWN ON THE CERTAIN TRACT MAP, NUMBER 3533 FILED FOR RECORD ON OCTOBER 5, 2006, IN BOOK 40 OF MAPS AT PAGE 100, OFFICIAL RECORDS OF SAN JOAQUIN COUNTY WAS TAKEN AS THE BASIS FOR ALL BEARINGS SHOWN HEREON.

LAYOUT LEGEND

SYM	DESCRIPTION
POB	POINT OF BEGINNING - LOCATED ON SHEET L6.8
	ANCHOR POINT FOR CONTROL LINE - LOCATED ON SHEET L6.3
R10' R20'	RADIUS POINT / CENTER MARK
	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X"	DISTANCE BETWEEN ELEMENTS
	CENTER LINES
	BASELINE
	CONTROL LINE
N 6+21.95 E 4+97.08	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
(BIO)	EDGE OF BIOREMEDIATION BASIN
(BLDG)	CORNER OF BUILDING
(COD)	CENTER OF DRAINAGE STRUCTURE
(CONTROL)	CENTER OF CONTROL POINT
(CP)	CENTER OF POST
(CTD)	CENTER OF TRENCH DRAIN
(CURB)	CURB
(EB)	EDGEBAND
(EP)	EDGE OF PAVEMENT
(LP)	CENTER OF LIGHT POLE
(PC)	EDGE OF PLAY CURB
(POB)	POINT OF BEGINNING FOR GRID LAYOUT
(RAD)	RADIUS POINT
(STRIPING)	EDGE OF STRIPING
(TAN)	TANGENT POINT

KEY MAP



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1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
LAYOUT PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY
DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"
PROJ. NO. 2103800
SHEET NO. L6.4

LAYOUT PLAN

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DRAWING NAME: Y:\Projects-FO\2021\2103800 - Roseville 6 Soccer Complex\CAD_LAY-RSC.dwg
PLOT DATE: 06-24-22 PLOTTED BY: station46

MATCHLINE L - REFER TO SHEET L6.12

MATCHLINE D - REFER TO SHEET L6.4

MATCHLINE F - REFER TO SHEET L6.6

N 153.27
E 1357.06
CP

N 90.23
E 1357.06
CP

N 64.37
E 1329.79
RAD

N 66.22
E 1357.07
CP

N 45.73
E 1357.07
CP

N 34.98
E 1357.07
CP

N 31.98
E 1373.12
CP

N 24.23
E 1357.07
CP

N 3.49
E 1357.07
CP

N -20.56
E 1357.03
CP

N -83.60
E 1357.07
CP

N -107.51
E 1357.07
CP

N -160.04
E 1372.55
CP

N -212.78
E 1357.07
CP

N -226.81
E 1357.03
CP

N -299.86
E 1357.03
CP

N -323.78
E 1357.07
CP

N -344.27
E 1357.07
CP

N -351.95
E 1372.62
CP

N -355.02
E 1357.07
CP

N -367.02
E 1357.59
EP

N 34.98
E 1296.74
CP

N -355.03
E 1296.74
CP

N 34.98
E 1164.41
CP

N -355.02
E 1164.41
CP

N -367.02
E 1123.03
EP

N -355.02
E 1111.03
CP

N -351.98
E 1106.10
CP

N 34.98
E 1103.57
CP

N -355.02
E 1103.57
CP

N -343.35
E 1085.14
BIO,TAN

R30.00

N -343.35
E 1082.14
RAD

N -342.86
E 1079.18
BIO,TAN

N -365.83
E 1095.14
RAD

N -365.83
E 1085.14
BIO,TAN

WESTBRO (PUBLIC R/

DURANGO WAY (PUBLIC R/W)

N 1+00

00+00

S 1+00

S 2+00

S 3+00

NORTH

0' 10' 20' 40' 80'

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SYM	DESCRIPTION
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	ANCHOR POINT FOR CONTROL LINE - LOCATED ON SHEET L6.3
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	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X"	DISTANCE BETWEEN ELEMENTS
	CENTER LINES
	BASELINE
	CONTROL LINE
N 6+21.95 E 4+97.08	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
(BIO)	EDGE OF BIOREMEDIATION BASIN
(BLDG)	CORNER OF BUILDING
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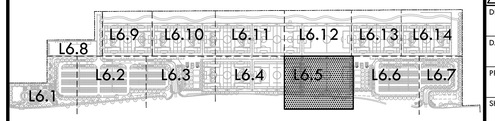
(CP)	CENTER OF POST
(CTD)	CENTER OF TRENCH DRAIN
(CURB)	CURB
(EB)	EDGEBAND
(EP)	EDGE OF PAVEMENT
(LP)	CENTER OF LIGHT POLE
(PC)	EDGE OF PLAY CURB
(POB)	POINT OF BEGINNING FOR GRID LAYOUT
(RAD)	RADIUS POINT
(STRIPING)	EDGE OF STRIPING
(TAN)	TANGENT POINT

KEY MAP



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SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY

DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"

PROJ. NO. 2103800

SHEET NO. L6.5

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PLOT DATE: 06-24-22 PLOTTED BY: station46

MATCHLINE M - REFER TO SHEET L6.13

MATCHLINE N - REFER TO SHEET L6.14

MATCHLINE E - REFER TO SHEET L6.5

MATCHLINE F - REFER TO SHEET L6.7

PASSENGER DROP OFF

N -543.80 E 1357.07 CP
N -566.39 E 1356.07 EP
N -566.39 E 1343.31 EP
N -511.02 E 1310.26 CP
N -499.02 E 1310.26 EP
N -524.78 E 1329.92 CP
N -517.39 E 1310.26 EP
R10.00
N -566.39 E 1312.31 EP
N -535.39 E 1312.31 EP
N -527.39 E 1300.26 EP
N -517.39 E 1300.26 RAD
N -568.39 E 1292.15 EP
N -574.39 E 1292.15 EP
N -574.39 E 1286.15 EP
N -580.88 E 1292.15 EP
N -588.39 E 1318.15 EP
N -586.88 E 1304.15 EP
N -580.88 E 1286.15 EP
N -586.88 E 1292.15 EP
N -588.39 E 1298.15 EP
R6.00
R8.00
N -640.87 E 1356.07 EP
N -640.87 E 1342.79 EP
N -640.87 E 1318.15 EP
N -640.87 E 1304.15 EP
N -649.87 E 1356.07 EP
N -649.87 E 1342.79 EP
N -649.87 E 1318.15 EP
N -649.87 E 1304.12 EP
N -648.70 E 1357.07 CP
N -793.38 E 1356.07 EP
N -793.38 E 1342.76 EP
N -793.38 E 1318.15 EP
N -793.38 E 1304.15 EP
N -801.82 E 1357.07 CP
N -802.38 E 1356.07 EP
N -802.38 E 1342.76 EP
N -802.38 E 1318.15 EP
N -802.38 E 1304.15 EP
N -822.37 E 1321.02 RAD
N -854.39 E 1318.15 EP
N -856.38 E 1304.15 EP
N -854.39 E 1298.15 RAD
N -856.38 E 1292.15 EP
N -862.38 E 1286.15 EP
N -862.38 E 1292.15 RAD
N -874.39 E 1298.15 EP
N -874.39 E 1292.15 EP
N -868.39 E 1292.15 RAD
N -868.39 E 1286.15 EP
R20.00
R6.00
R8.00

N -382.72 E 1297.10 BLDG
N -405.32 E 1297.10 BLDG
N -421.69 E 1289.07 BLDG
N -444.35 E 1289.07 BLDG
N -483.32 E 1297.10 BLDG
N -460.72 E 1297.10 BLDG

N -377.02 E 1271.39 EP
N -427.02 E 1271.40 EP
N -377.03 E 1230.39 EP
N -427.03 E 1230.40 EP
N -377.04 E 1220.39 EP
N -427.04 E 1220.40 EP
N -377.04 E 1179.39 EP
N -427.04 E 1179.40 EP
N -377.05 E 1169.39 EP
N -427.05 E 1169.40 EP
N -377.06 E 1128.39 EP
N -427.06 E 1128.40 EP

N -499.02 E 1123.03 EP
N -511.02 E 1111.03 CP
N -380.83 E 1105.03 BIO,TAN
R5.00
N -380.83 E 1100.03 RAD
N -375.83 E 1100.00 BIO,TAN
N -375.83 E 1095.14 BIO,TAN
R100.00
N -365.83 E 1095.14 RAD
N -377.09 E 1073.54 BIO,TAN
R1078.00
N -450.65 E 971.88 RAD
N -508.65 E 1105.03 BIO,TAN
N -508.65 E 1100.00 BIO,TAN
N -513.55 E 1101.06 BIO,TAN
R5.00
N -524.95 E 1070.17 RAD
N -524.66 E 1065.18 BIO,TAN
N -528.46 E 1073.73 BIO,TAN
N -563.39 E 1068.24 RAD
N -571.39 E 1076.15 RAD
N -568.39 E 1068.24 EP,TAN
N -568.39 E 1034.37 EP,TAN
N -563.39 E 1034.17 TAN
N -561.51 E 1029.54 EP,TAN
N -563.52 E 1073.24 EP,TAN
N -571.39 E 1081.15 EP,TAN
N -576.39 E 1076.15 EP,TAN
R30.00
R31.00
R39.00
R50.00
R100.00
N -576.39 E 1063.65 EP
N -576.39 E 1029.69 EP,TAN
N -581.38 E 1029.43 TAN
N -580.55 E 1024.49 EP,TAN
N -624.41 E 1011.44 EP
N -623.75 E 1003.34 EP
N -527.39 E 1112.15 EP
N -535.39 E 1112.15 EP
N -566.39 E 1112.15 RAD
N -867.87 E 1111.65 RAD
N -871.39 E 1075.82 RAD
N -865.39 E 1075.82 EP,TAN
N -870.80 E 1081.79 EP,TAN
R30.00
R40.00
N -865.39 E 1064.15 EP
N -823.82 E 997.88 EP
N -821.87 E 987.49 EP
N -874.72 E 988.57 EP
N -853.42 E 988.34 EP
N -851.97 E 979.94 EP
N -858.63 E 975.73 EP

S 4+00
S 5+00
S 6+00
S 7+00
S 8+00

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LAYOUT LEGEND

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	ANCHOR POINT FOR CONTROL LINE - LOCATED ON SHEET L6.3
R10' / 90°	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X"	DISTANCE BETWEEN ELEMENTS
	CENTER LINES
	BASELINE
	CONTROL LINE
N 6+21.95 E 4+97.08	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
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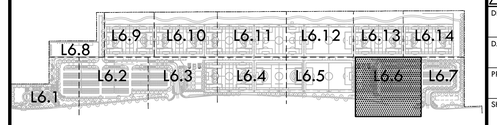
(POB)	POINT OF BEGINNING FOR GRID LAYOUT
(RAD)	RADIUS POINT
(STRIPING)	EDGE OF STRIPING
(TAN)	TANGENT POINT

NORTH
0' 10' 20' 40' 80'

KEY MAP



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Signature
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SHEET TITLE
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PROJECT NAME
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PROJECT ADDRESS
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SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY
CHECKED BY
DATE ISSUED 04/29/2022
SCALE 1"=20'-0"
PROJ. NO. 2103800
SHEET NO. L6.6

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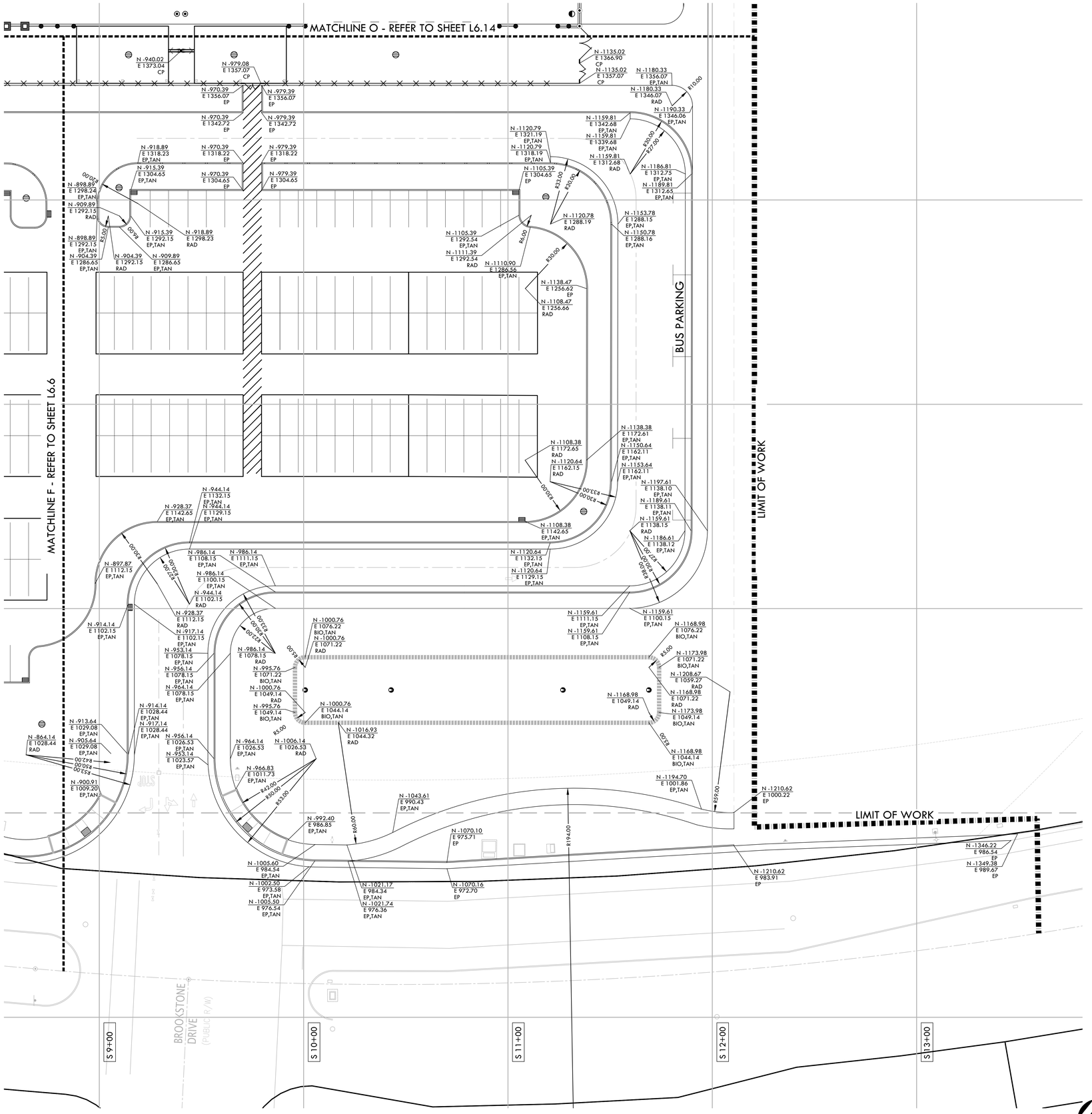
DRAWING NAME: V:\Projects-FY\2021\2103800 - Roseville 6 Soccer Complex\CAD_LAY-RSC.dwg
PLOT DATE: 06-24-22 PLOTTED BY: stotlon46



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LAYOUT LEGEND

SYM	DESCRIPTION
POB	POINT OF BEGINNING - LOCATED ON SHEET L6.8
	ANCHOR POINT FOR CONTROL LINE - LOCATED ON SHEET L6.3
R10' / R0'	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X'	DISTANCE BETWEEN ELEMENTS
	CENTER LINES
	BASELINE
	CONTROL LINE
N 6+21.95 E 4+97.08	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
(BIO)	EDGE OF BIOREMEDIATION BASIN
(BLDG)	CORNER OF BUILDING
(COD)	CENTER OF DRAINAGE STRUCTURE
(CONTROL)	CENTER OF CONTROL POINT
(CP)	CENTER OF POST
(CTD)	CENTER OF TRENCH DRAIN
(CURB)	CURB
(EB)	EDGEBAND
(EP)	EDGE OF PAVEMENT
(LP)	CENTER OF LIGHT POLE
(PC)	EDGE OF PLAY CURB
(POB)	POINT OF BEGINNING FOR GRID LAYOUT
(RAD)	RADIUS POINT
(STRIPING)	EDGE OF STRIPING
(TAN)	TANGENT POINT

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fax: 916.415.6525
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REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
LAYOUT PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

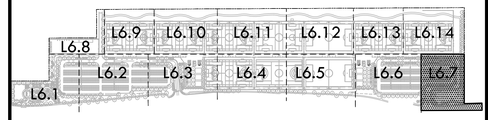
PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE 1"=20'-0"
PROJ. NO. 2103800	
SHEET NO. L6.7	

KEY MAP



NORTH
0' 10' 20' 40' 80'

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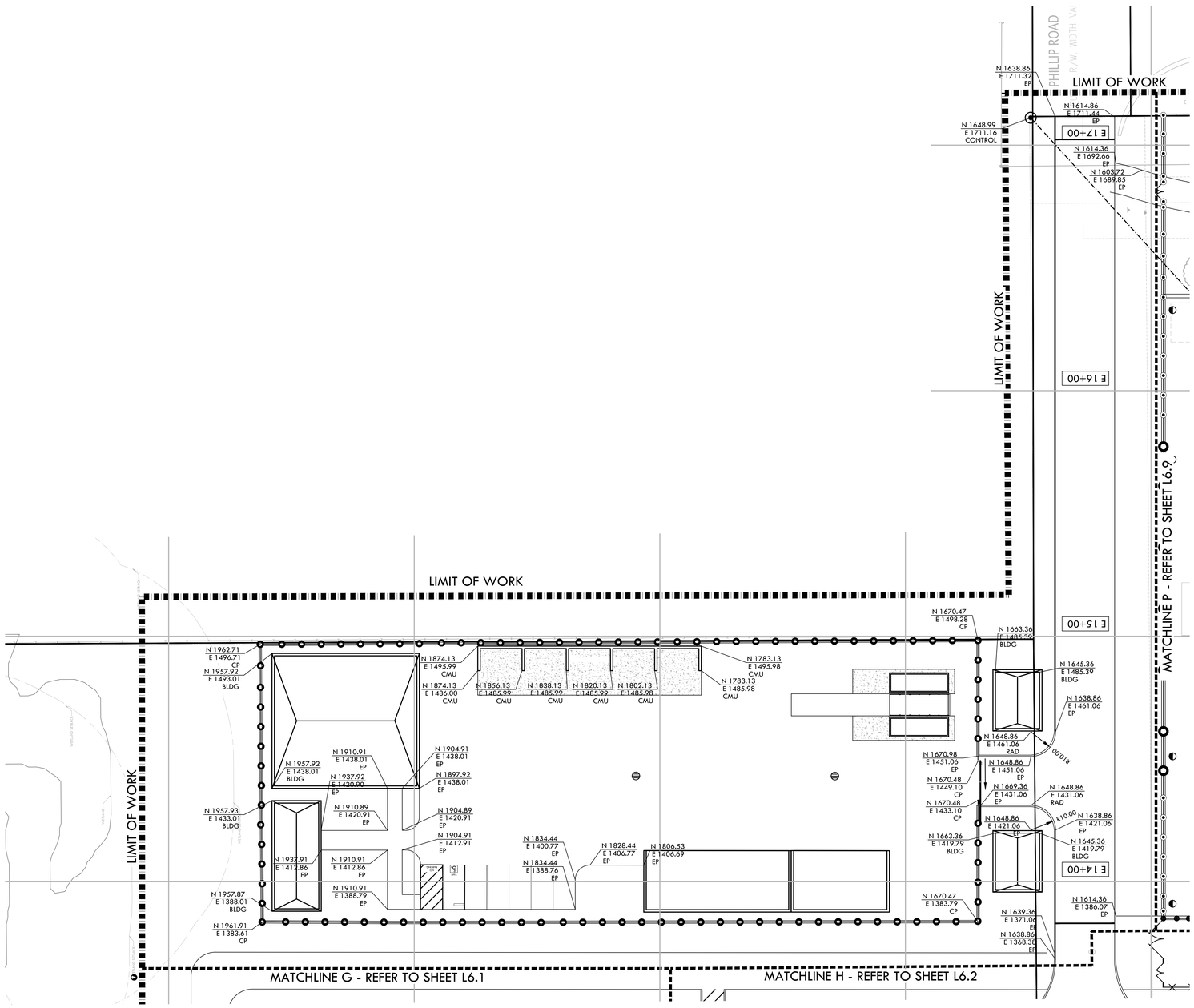
DRAWING NAME: V:\Projects-FY\2021\2103800 - Roseville 6 Soccer Complex\CAD_LAY-RSC.dwg
PLOT DATE: 06-24-22 PLOTTED BY: station46



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LAYOUT LEGEND

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	ANCHOR POINT FOR CONTROL LINE - LOCATED ON SHEET L6.3
R10'	RADIUS POINT / CENTER MARK
80°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X"	DISTANCE BETWEEN ELEMENTS
	CENTER LINES
	BASELINE
	CONTROL LINE
N 6+21.95 E 4+97.08	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
(BIO)	EDGE OF BIOREMEDIATION BASIN
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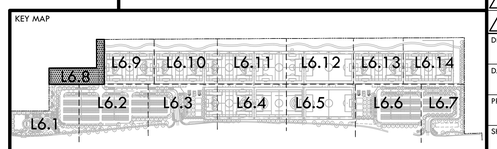
(RAD)	RADIUS POINT
(STRIPING)	EDGE OF STRIPING
(TAN)	TANGENT POINT

NORTH

0' 10' 20' 40' 80'

KEY MAP



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EXPIRATION DATE: JULY 2023
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CONSULTANT

SHEET TITLE
LAYOUT PLAN

PROJECT NAME
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PROJECT ADDRESS
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ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE 1"=20'-0"
PROJ. NO. 2103800	
SHEET NO. L6.8	

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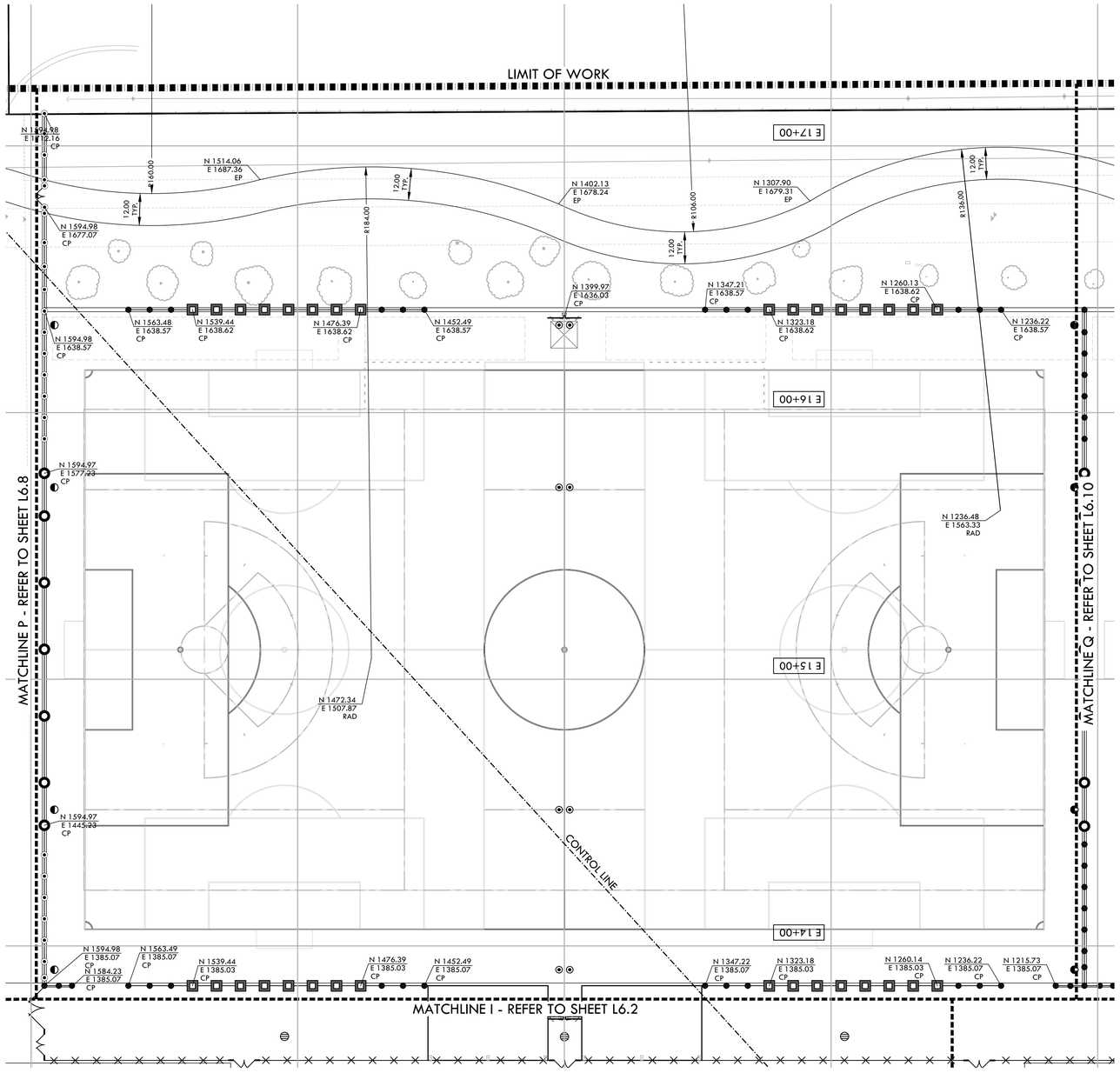
PLOT DATE: 06-24-22 PLOTTED BY: station46



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LAYOUT LEGEND

SYM	DESCRIPTION
POB	POINT OF BEGINNING - LOCATED ON SHEET L6.8
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R10'	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
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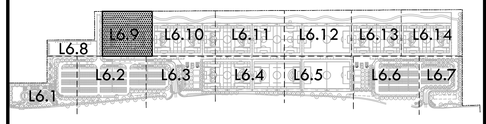
NORTH

0' 10' 20' 40' 80'

KEY MAP



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Signature
EXPIRATION DATE: JULY 2023
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CONSULTANT

SHEET TITLE
LAYOUT PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY

DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"

PROJ. NO. 2103800

SHEET NO. L6.9

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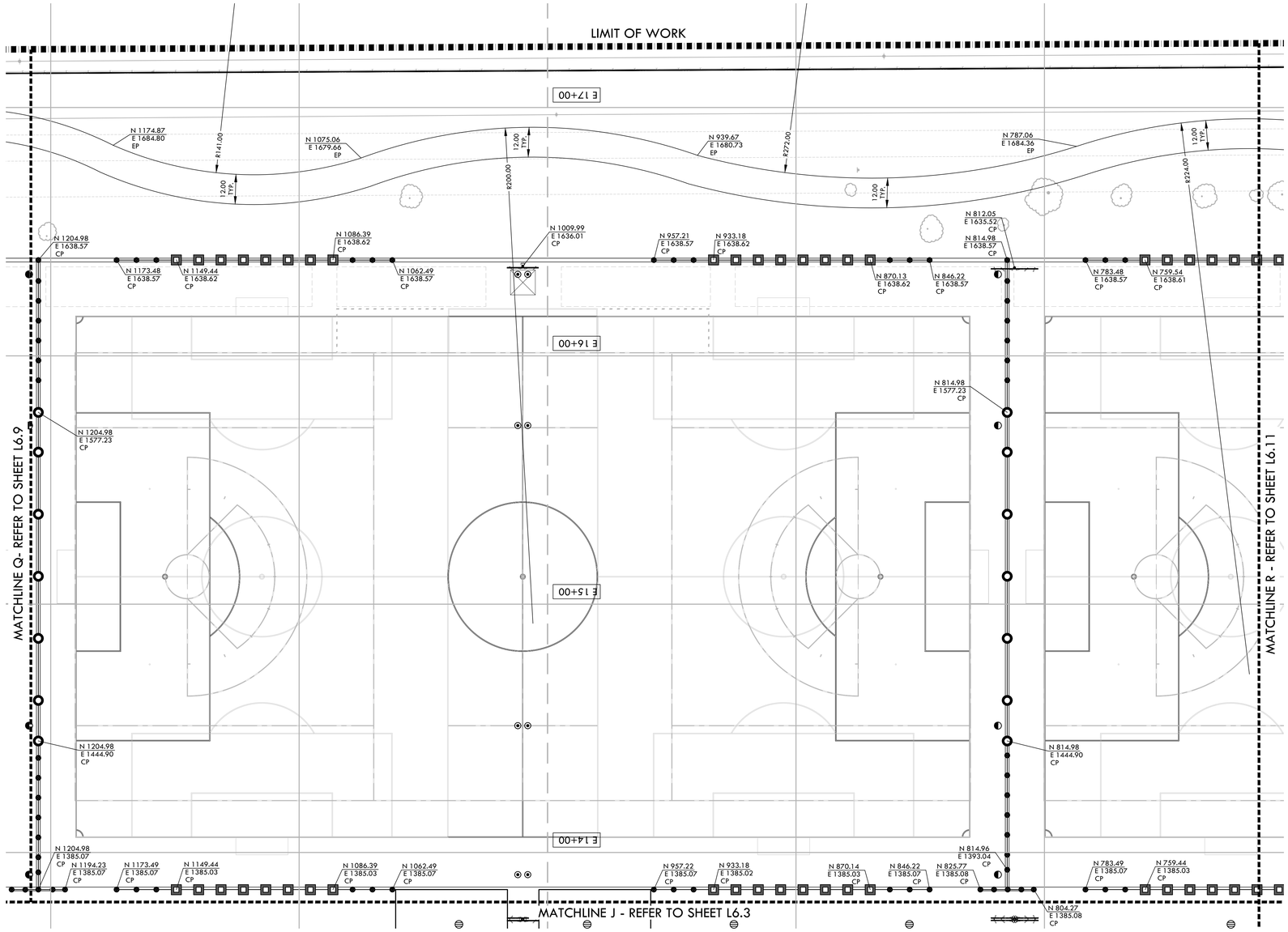
PLOT DATE: 06-24-22 PLOTTED BY: station46



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LAYOUT LEGEND

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POB	POINT OF BEGINNING - LOCATED ON SHEET L6.8
	ANCHOR POINT FOR CONTROL LINE - LOCATED ON SHEET L6.3
R10' / R20'	RADIUS POINT / CENTER MARK
	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X"	DISTANCE BETWEEN ELEMENTS
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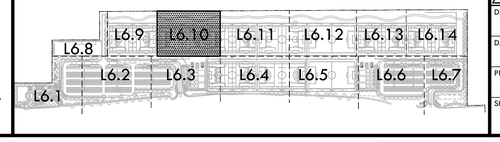
NORTH
0' 10' 20' 40' 80'

KEY MAP



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SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY
DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
PROJ. NO.: 2103800
SHEET NO.: L6.10

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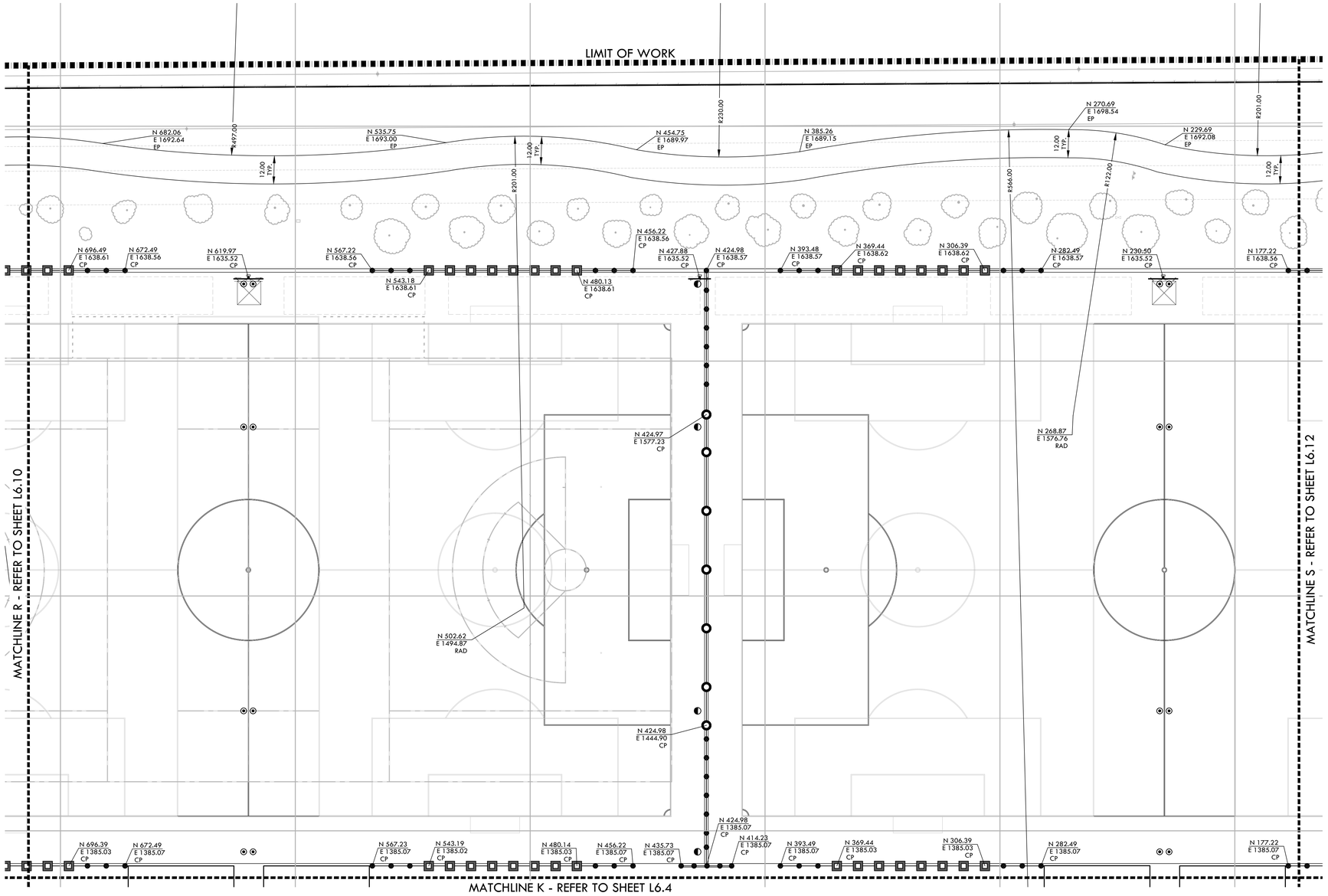
PLOT DATE: 06-24-22 PLOTTED BY: station46



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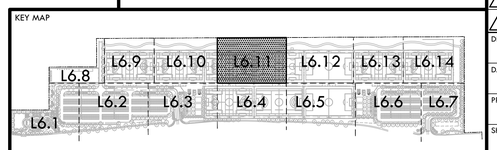

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www.VerdeDesignInc.com

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
LAYOUT PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY
DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
PROJ. NO.: 2103800
SHEET NO.: L6.11

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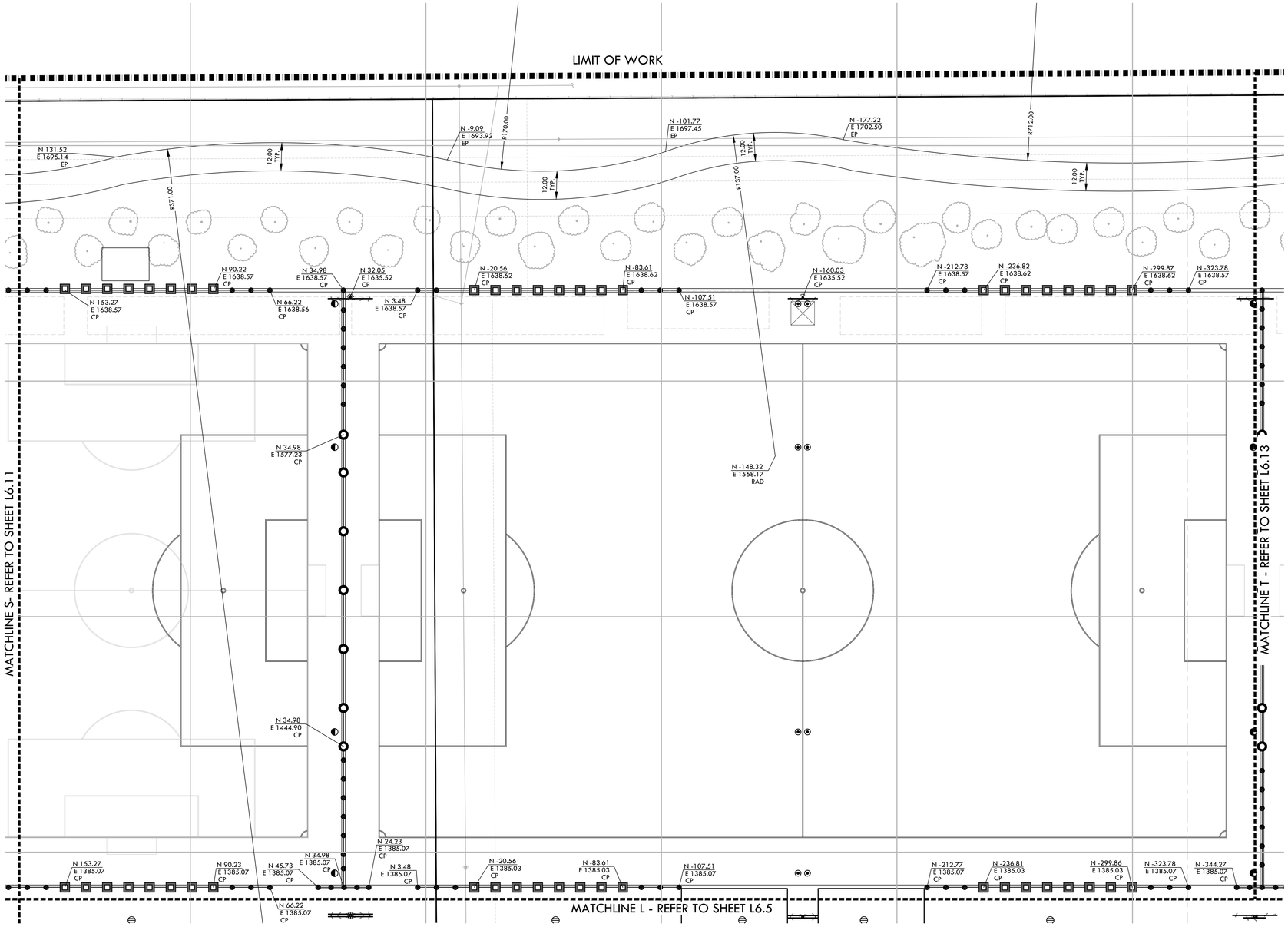
PLOT DATE: 06-24-22 PLOTTED BY: station46



LAYOUT NOTES

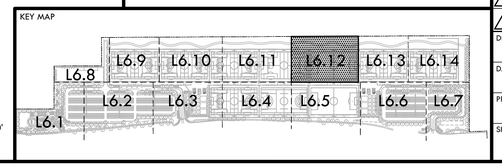
1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. ALL DIMENSIONS SHALL BE VERIFIED IN FIELD AND CHALKED, STRING LINED OR FLAGGED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MINOR ADJUSTMENTS MADE TO ACHIEVE OVERALL DESIGN LAYOUT SHALL BE ACCEPTED BY THE OWNER PRIOR TO CONSTRUCTION.
3. LAYOUT IS BASED ON THE POINT(S) OF BEGINNING (P.O.B.) AND BASELINE(S) OR GRID SYSTEM AS SHOWN. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.
4. ALL LAYOUT AND GRADES SHALL BE COMPLETED BY A LICENSED SURVEYOR.
5. SURVEY PROVIDED BY: KIER & WRIGHT (FIELD COMPLETION DATE: 12/02/21, REVISED 01/21/22)
   - 5.1. ELEVATIONS SHOWN HEREON ARE BASED ON NAVD88 DATUM.
   - 5.2. BENCHMARK: 1013 PAT
     2" DISC ON RED POLYROC MONUMENT BLOCK WITH 24" FENO ANCHOR STAMPED "PAT" WITH A CENTER MARK TRIANGLE WITH PUNCH LOCATED 105 FEET SOUTHERLY OF THE CENTERLINE OF DOS RIOS ROAD, 7 FEET SOUTH OF METAL GATE AT THE TOP OF LEVEE. ELEVATION = 28.70 (NAVD88)
   - 5.3. BASIS OF BEARINGS:
     THE BEARING OF NORTH 64°56'12" EAST TAKEN ON THE MONUMENT LINE OF SPARTAN WAY (FORMERLY KNOWN AS LATHROP ROAD) AS SHOWN ON THE CERTAIN TRACT MAP, NUMBER 3533 FILED FOR RECORD ON OCTOBER 5, 2006, IN BOOK 40 OF MAPS AT PAGE 100, OFFICIAL RECORDS OF SAN JOAQUIN COUNTY WAS TAKEN AS THE BASIS FOR ALL BEARINGS SHOWN HEREON.

LAYOUT LEGEND

SYM	DESCRIPTION
POB	POINT OF BEGINNING - LOCATED ON SHEET L6.8
	ANCHOR POINT FOR CONTROL LINE - LOCATED ON SHEET L6.3
R10' R90°	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X"	DISTANCE BETWEEN ELEMENTS
	CENTER LINES
	BASELINE
	CONTROL LINE
N 6+21.95 E 4+97.08	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
(BIO)	EDGE OF BIOREMEDIATION BASIN
(BLDG)	CORNER OF BUILDING
(COD)	CENTER OF DRAINAGE STRUCTURE
(CONTROL)	CENTER OF CONTROL POINT
(CP)	CENTER OF POST
(CTD)	CENTER OF TRENCH DRAIN
(CURB)	CURB
(EB)	EDGEBAND
(EP)	EDGE OF PAVEMENT
(LP)	CENTER OF LIGHT POLE
(PC)	EDGE OF PLAY CURB
(POB)	POINT OF BEGINNING FOR GRID LAYOUT
(RAD)	RADIUS POINT
(STRIPING)	EDGE OF STRIPING
(TAN)	TANGENT POINT

NORTH
0' 10' 20' 40' 80'

KEY MAP



VERDE DESIGN
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SHEET NO. L6.12

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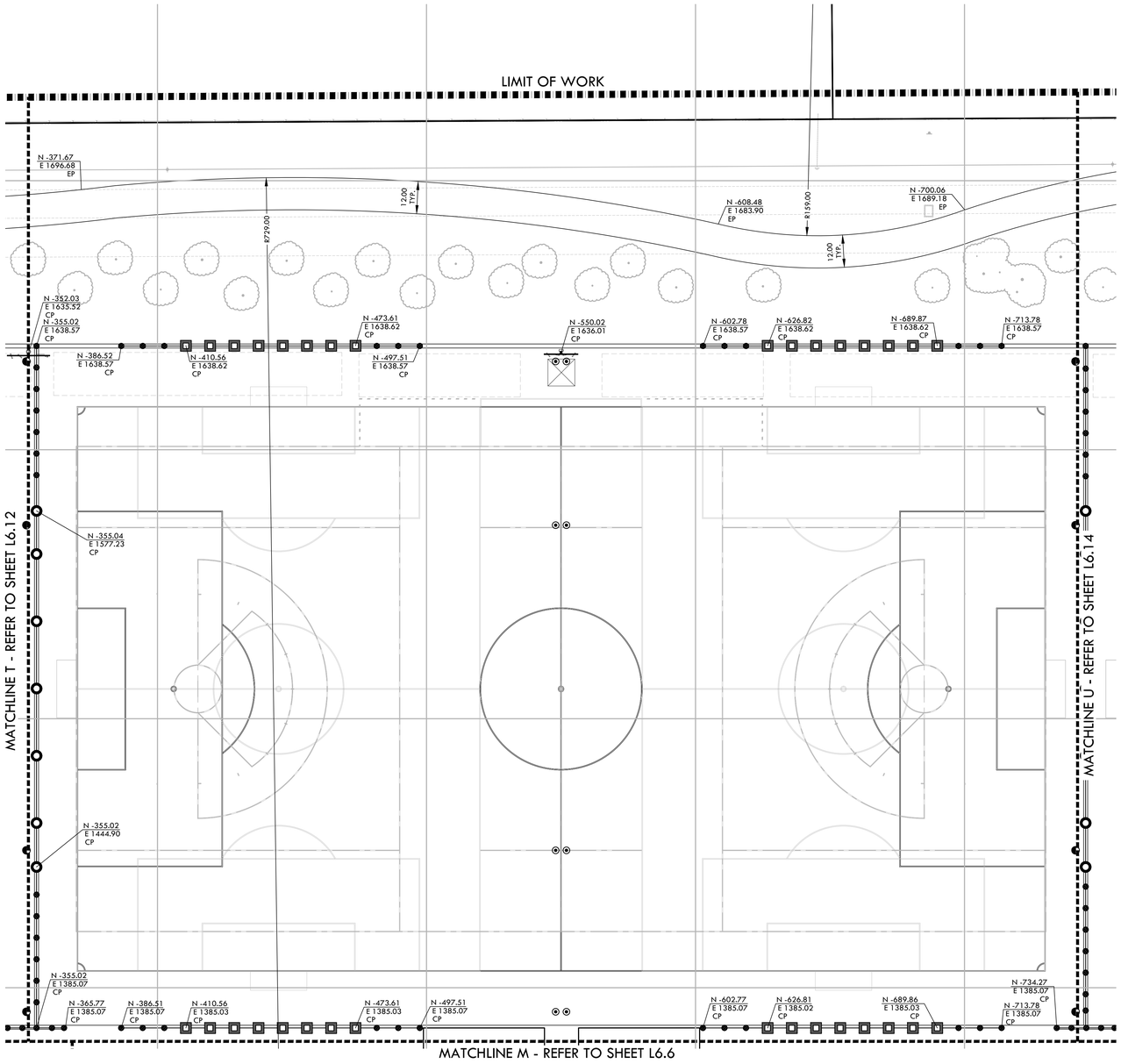

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	ANCHOR POINT FOR CONTROL LINE - LOCATED ON SHEET L6.3
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90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X"	DISTANCE BETWEEN ELEMENTS
	CENTER LINES
	BASELINE
	CONTROL LINE
N 6+21.95 E 4+97.08	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
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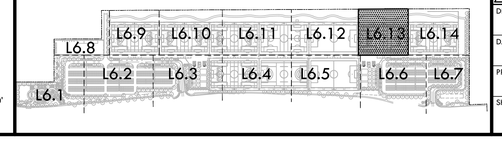
NORTH

0' 10' 20' 40' 80'

KEY MAP



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No. 4089
Signature
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CONSULTANT

SHEET TITLE
LAYOUT PLAN

PROJECT NAME
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PROJECT ADDRESS
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ROSEVILLE, CA 95747

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30% SUBMITTAL	04/29/22

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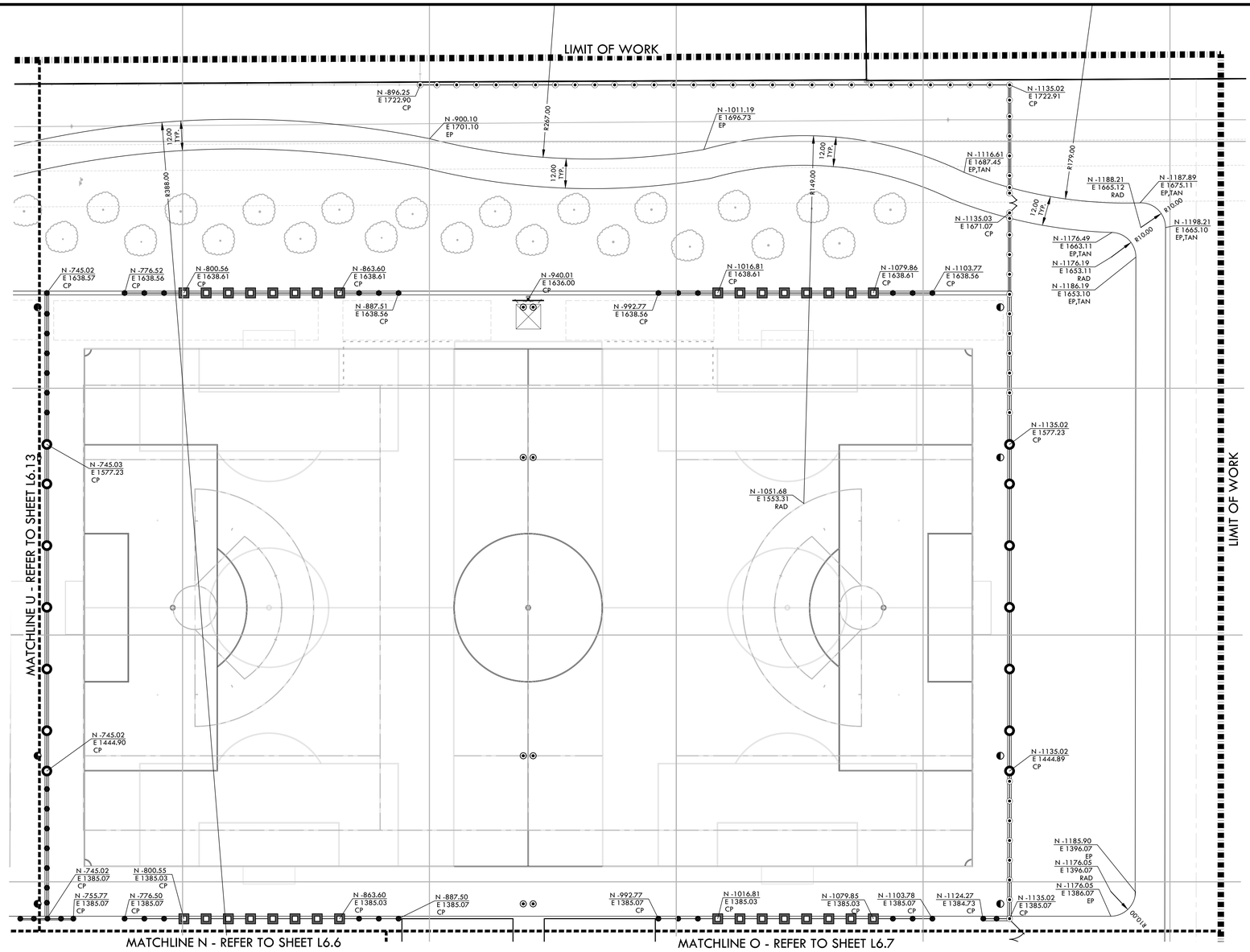

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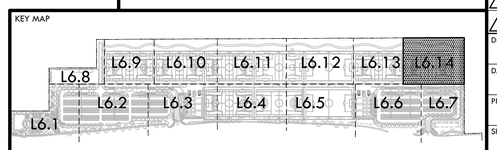
KEY MAP



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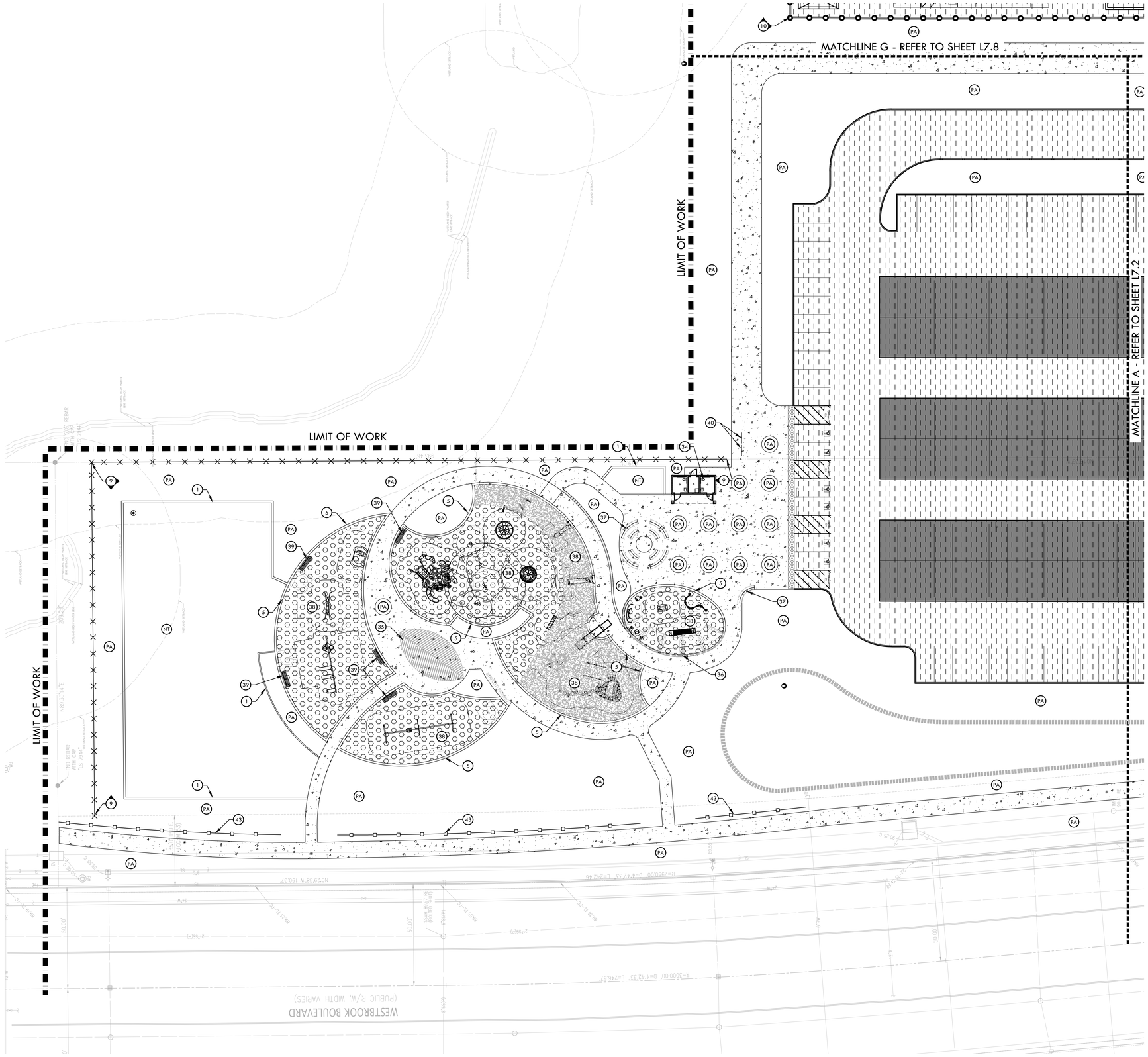

MATERIAL NOTES

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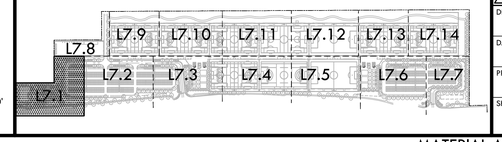
2. THE INTERFACE OF ALL PROPOSED IMPROVEMENTS TO EXISTING SITE SHALL CONFORM AND BE SMOOTH AND UNIFORM.
3. ALL REINFORCING AND FORMS SHALL BE SECURED IN PLACE AND ACCEPTED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING ANY CONCRETE.
4. CONCRETE FINISHES SHALL BE AS NOTED. CONTRACTOR SHALL PROVIDE 4'X4' SAMPLES OF ALL SPECIFIED FINISHES OF CONCRETE USING THE SAME MATERIALS THAT WILL BE USED IN THE ACTUAL CONSTRUCTION FOR EACH TYPE SPECIFIED. SAMPLES SHALL BE PREPARED WELL ENOUGH IN ADVANCE OF SCHEDULED CONCRETE POUR TO ALLOW FOR REVIEW AND POSSIBLE RE-POURING OF UNACCEPTABLE SAMPLES. UNACCEPTABLE SAMPLES SHALL BE RE-PREPARED UNTIL ACCEPTED BY THE OWNER'S REPRESENTATIVE. ACCEPTED SAMPLES SHALL BE PROTECTED AND REMAIN ON SITE FOR REFERENCE UNTIL FINAL ACCEPTANCE.
5. ALL FENCES AND GATES SHOWN ON PLAN ARE GRAPHIC REPRESENTATIONS; REFER TO DETAILS AND SPECIFICATIONS FOR PRECISE LOCATION.
6. ASPHALT SHALL NOT BE INSTALLED UNTIL ALL EDGES AND SITE FURNISHING PADS ARE INSTALLED.

MATERIAL LEGEND

SYM.	DESCRIPTION	DET REF
	LIMIT OF WORK / CONSTRUCTION FENCING	
	SYNTHETIC TURF	00 0-0
	ASPHALT PAVING - VEHICULAR	00 0-0
	CONCRETE PAVING - PEDESTRIAN	00 0-0
	CONCRETE PAVING - VEHICULAR	00 0-0
	TRUNCATED DOMES - REFER TO SPECIFICATIONS	00 0-0
	RUBBER SURFACING	00 0-0
	SYNTHETIC TURF PLAY SURFACING	00 0-0
PA	PLANTING AREA - REFER TO PLANTING PLAN	
NL	NATURAL LANDSCAPE AREA - REFER TO PLANTING PLAN	
NT	NATURAL TURF GRASS - REFER TO PLANTING PLAN	
1	6" WIDE - EDGEBAND	
2	18" WIDE - SYNTHETIC TURF EDGEBAND	
3	18" WIDE - EDGEBAND WITH FENCE	
4	6" WIDE - CURB	
5	12" WIDE - CONTAINMENT CURB AT PLAYGROUND	
6	SPORTS LIGHTING - REFFER TO ELECTRICAL DNA LIGHTING PLANS	
7	42" TALL CHAIN LINK FENCE WITH 12'-6" TALL ROLL-UP NETTING	
8	42" TALL CHAIN LINK FENCE	
9	6'-0" TALL CHAIN LINK FENCE	
10	8'-0" TALL CHAIN LINK FENCE	
11	8'-0" TALL OMEGA II FENCE	
12	8'-0" TALL OMEGA II FENCE WITH NETTING	
13	8'-0" TALL OMEGA UNIK FENCE WITH CUSTOM PERFORATED SIGN PANELS	
14	16'-0" TALL CHAIN LINK FENCE	
15	8'-0" TALL CHAINLIKE DOUBLE PEDESTRIAN GATES	
16	8'-0" TALL ENHANCED DOUBLE PEDESTRIAN GATES WITH PANIC HARDWARE AND DECORATIVE OVERHEAD ENTRY SIGNS WITH SIDE POSTS	
17	8'T x 20'W ENHANCED OMEGA II VEHICULAR SLIDING GATE WITH DECORATIVE SIDE POSTS	
18	8'T x 16'W DOUBLE MAINTENANCE GATES	
19	8'T x 20'W CHAINLIKE VEHICULAR SLIDING GATE AT MAINTENANCE YARD	
20	SOCCER STRIPING (70 YDS X 120 YDS)	
21	U10 & U12 COMBINED - YOUTH SOCCER STRIPING (45 YDS X 65 YDS)	
22	SOCCER GOAL	
23	LACROSSE STRIPING	
24	PLAYER'S AREA	
25	WARM-UP AREA	
26	10'X10' POP-UP TENT WITH SCORER'S TABLE	
27	RESTROOM BUILDING AT PLAZA	
28	CONCESSIONS BUILDING	
29	TWO TEAR CONCRETE SEATING AREA FOR PHOTO SHOOT	
30	FOOD TRUCK PARKING WITH ELECTRICAL AND WATER HOOK UP	
31	50' FLAG POLE	
32	50'X40' SHADE STRUCTURE AT PLAZA WITH SOLAR CAPABILITIES	
33	45'X28' SHADE STRUCTURE ALONG SPINE WITH SOLAR CAPABILITIES AND SPRAY MISTERS	
34	RESTROOM BUILDING AT PLAYGROUND	
35	38'X20' LEAF SHADE STRUCTURE, BY POLIGON	
36	SEATWALL WITH FABRIC SHADE SAILS , BY POLIGON	
37	TYPOLOGY RIBBON BENCH WITH LIGHTING, BY LANDSCAPE FORMS	
38	PLAYGROUND ELEMENTS, SEE ENLARGEMENT DETAIL	
39	8' BENCH	
40	5 LOOPED BIKE RACK	
41	DRINKING FOUNTAIN	
42	TRASH RECEPTACLE	
43	42" TALL CONCRETE SPLIT RAIL FENCE	

KEY MAP



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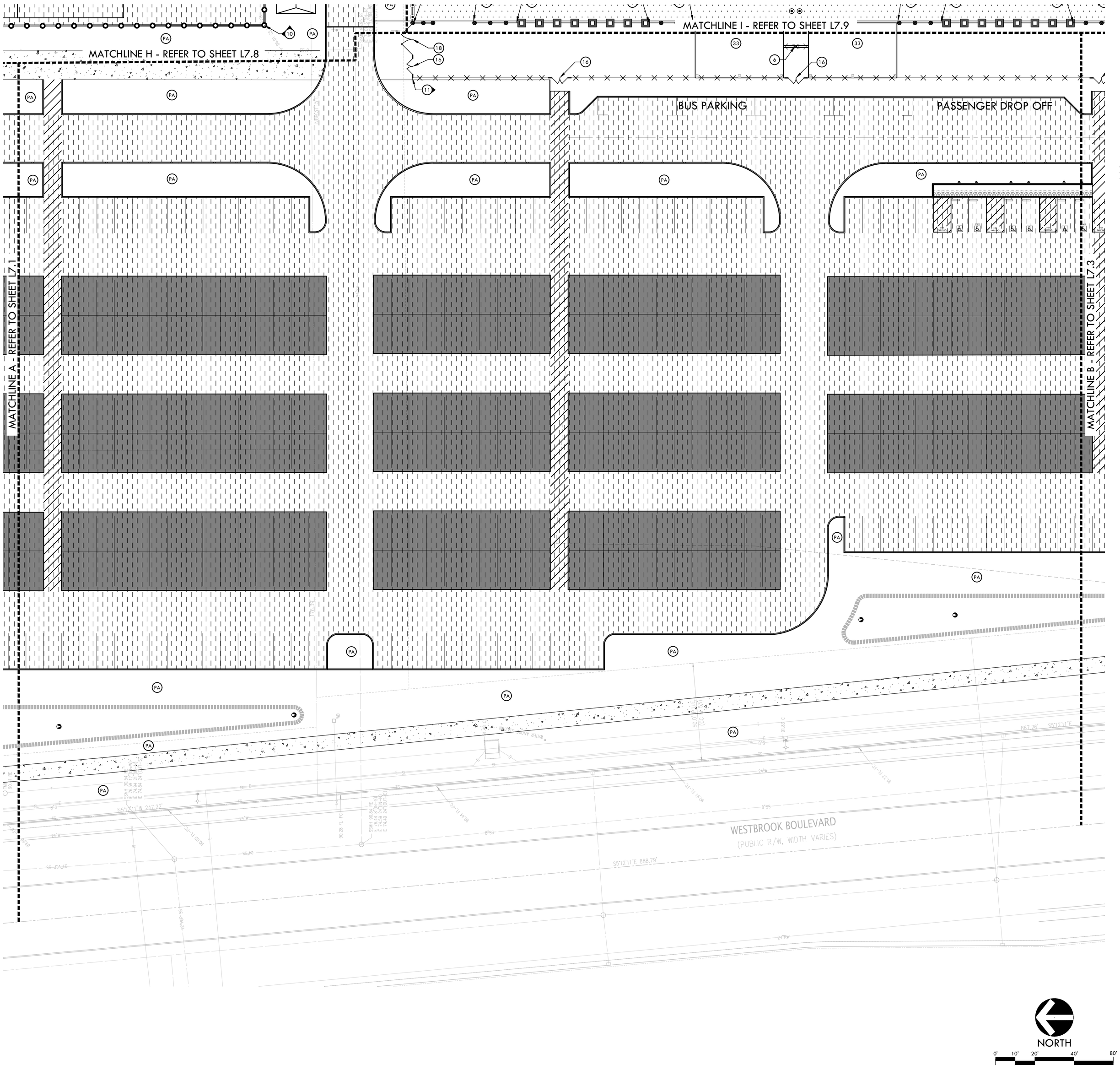
PLOT DATE: 06-24-22 PLOTTED BY: station46



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MATERIAL LEGEND

SYM.	DESCRIPTION	DET REF
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	ASPHALT PAVING - VEHICULAR	00 0-0
	CONCRETE PAVING - PEDESTRIAN	00 0-0
	CONCRETE PAVING - VEHICULAR	00 0-0
	TRUNCATED DOMES - REFER TO SPECIFICATIONS	00 0-0
	RUBBER SURFACING	00 0-0
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NL	NATURAL LANDSCAPE AREA - REFER TO PLANTING PLAN	
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3	18" WIDE - EDGEBAND WITH FENCE	
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5	12" WIDE - CONTAINMENT CURB AT PLAYGROUND	
6	SPORTS LIGHTING - REFFER TO ELECTRICAL DNA LIGHTING PLANS	
7	42" TALL CHAIN LINK FENCE WITH 12'-6" TALL ROLL-UP NETTING	
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11	8'-0" TALL OMEGA II FENCE	
12	8'-0" TALL OMEGA II FENCE WITH NETTING	
13	8'-0" TALL OMEGA UNIK FENCE WITH CUSTOM PERFORATED SIGN PANELS	
14	16'-0" TALL CHAIN LINK FENCE	
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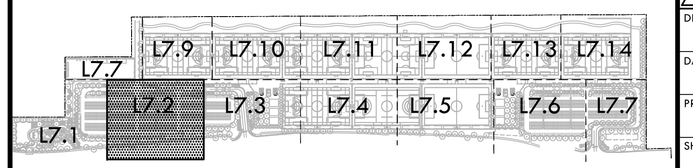

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VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BASINGER
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
MATERIAL AND DETAIL REFERENCE PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY

DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"

PROJ. NO. 2103800

SHEET NO. L7.2

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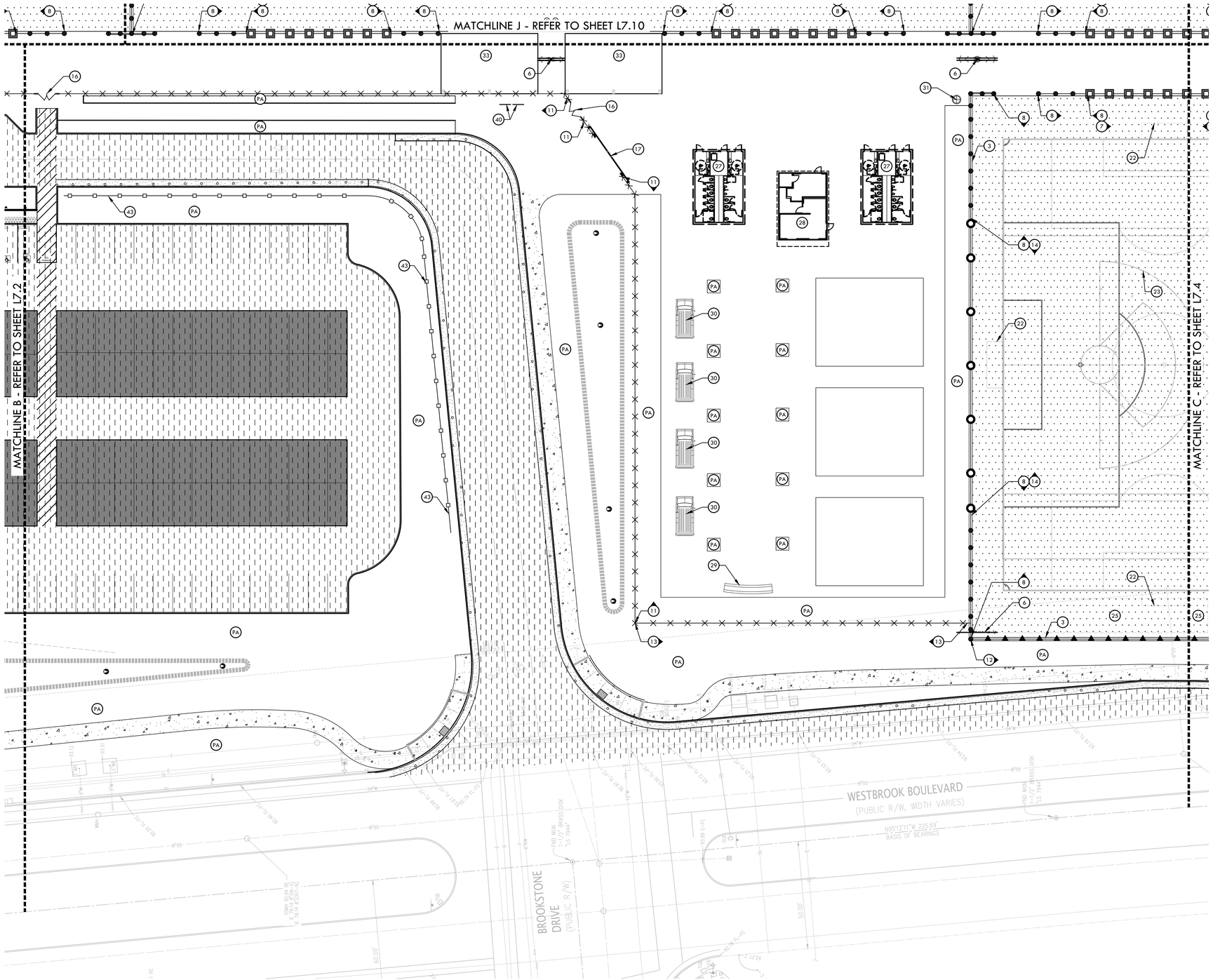

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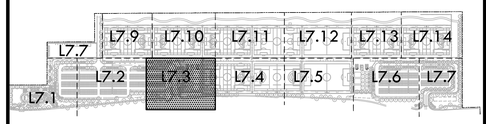

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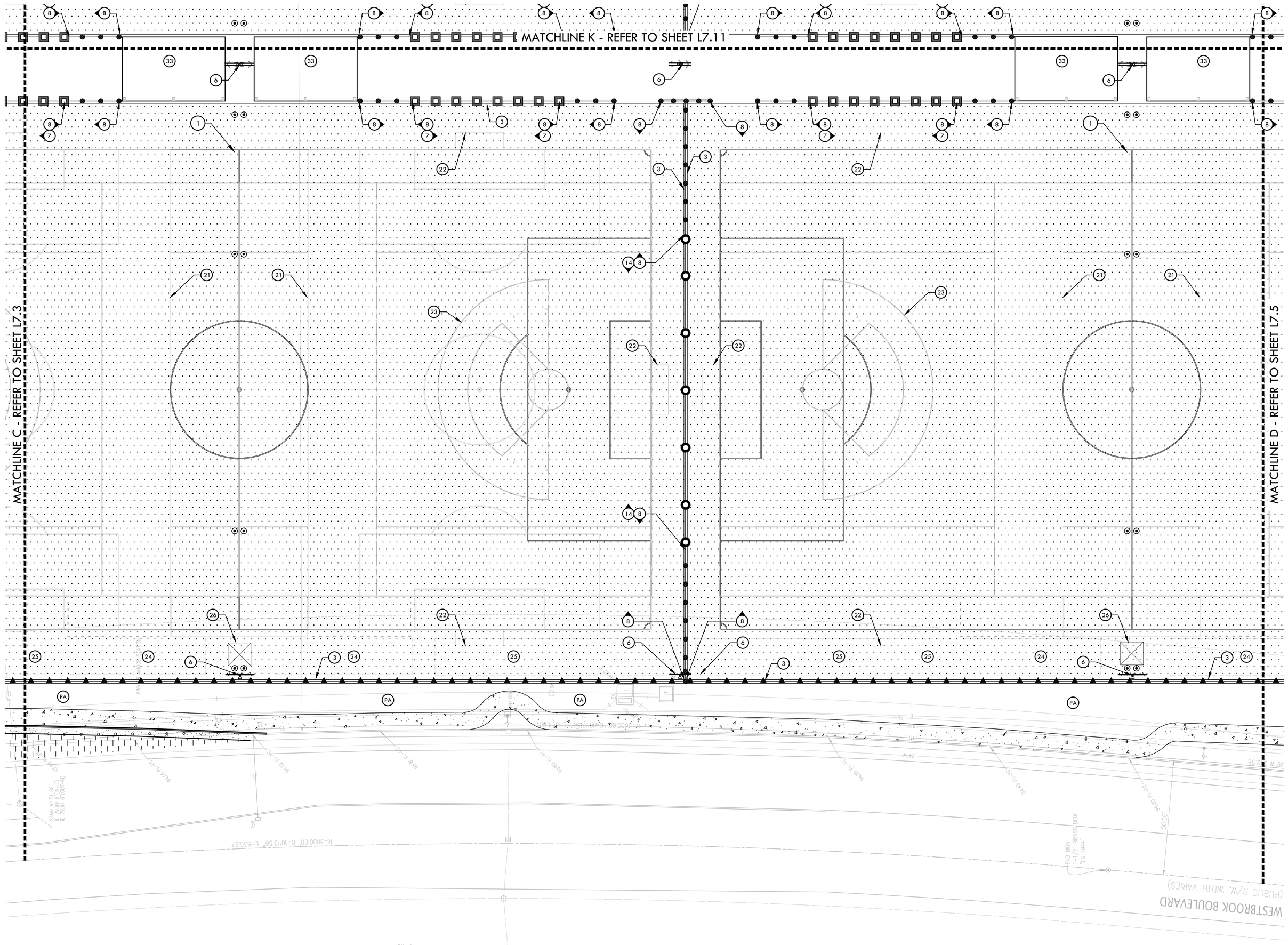

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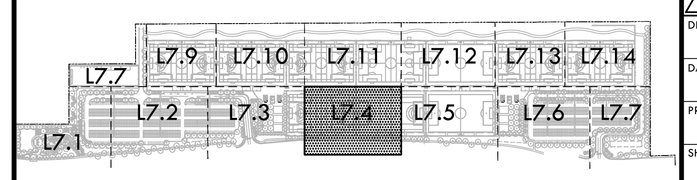

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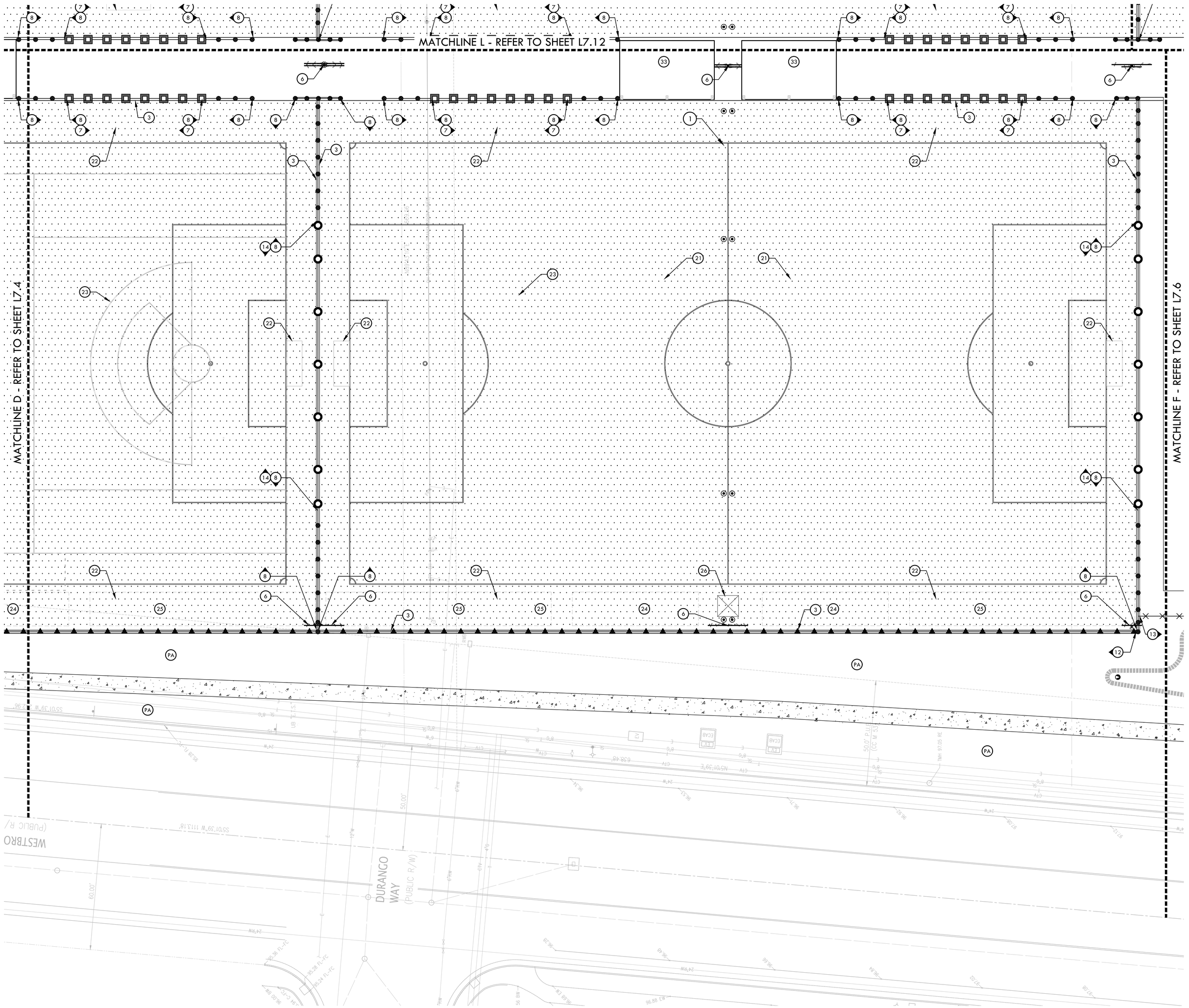

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NL	NATURAL LANDSCAPE AREA - REFER TO PLANTING PLAN	
NT	NATURAL TURF GRASS - REFER TO PLANTING PLAN	
1	6" WIDE - EDGEBAND	
2	18" WIDE - SYNTHETIC TURF EDGEBAND	
3	18" WIDE - EDGEBAND WITH FENCE	
4	6" WIDE - CURB	
5	12" WIDE - CONTAINMENT CURB AT PLAYGROUND	
6	SPORTS LIGHTING - REFFER TO ELECTRICAL DNA LIGHTING PLANS	
7	42" TALL CHAIN LINK FENCE WITH 12'-6" TALL ROLL-UP NETTING	
8	42" TALL CHAIN LINK FENCE	
9	6'-0" TALL CHAIN LINK FENCE	
10	8'-0" TALL CHAIN LINK FENCE	
11	8'-0" TALL OMEGA II FENCE	
12	8'-0" TALL OMEGA II FENCE WITH NETTING	
13	8'-0" TALL OMEGA UNIK FENCE WITH CUSTOM PERFORATED SIGN PANELS	
14	16'-0" TALL CHAIN LINK FENCE	
15	8'-0" TALL CHAINLIKE DOUBLE PEDESTRIAN GATES	
16	8'-0" TALL ENHANCED DOUBLE PEDESTRIAN GATES WITH PANIC HARDWARE AND DECORATIVE OVERHEAD ENTRY SIGNS WITH SIDE POSTS	
17	8'T x 20'W ENHANCED OMEGA II VEHICULAR SLIDING GATE WITH DECORATIVE SIDE POSTS	
18	8'T x 16'W DOUBLE MAINTENANCE GATES	
19	8'T x 20'W CHAINLIKE VEHICULAR SLIDING GATE AT MAINTENANCE YARD	
20	SOCCER STRIPING (70 YDS X 120 YDS)	
21	U10 & U12 COMBINED - YOUTH SOCCER STRIPING (45 YDS X 65 YDS)	
22	SOCCER GOAL	
23	LACROSSE STRIPING	
24	PLAYER'S AREA	
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26	10'X10' POP-UP TENT WITH SCORER'S TABLE	
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35	38'X20' LEAF SHADE STRUCTURE, BY POLIGON	
36	SEATWALL WITH FABRIC SHADE SAILS , BY POLIGON	
37	TYPOLOGY RIBBON BENCH WITH LIGHTING, BY LANDSCAPE FORMS	
38	PLAYGROUND ELEMENTS, SEE ENLARGEMENT DETAIL	
39	8' BENCH	
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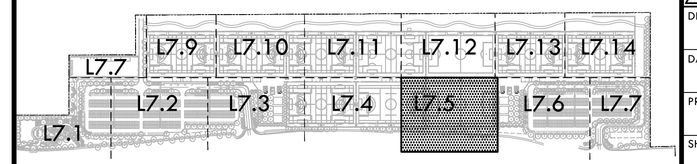

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
MATERIAL AND DETAIL REFERENCE PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY
CHECKED BY
DATE ISSUED 04/29/2022
SCALE 1"=20'-0"
PROJ. NO. 2103800
SHEET NO. L7.5

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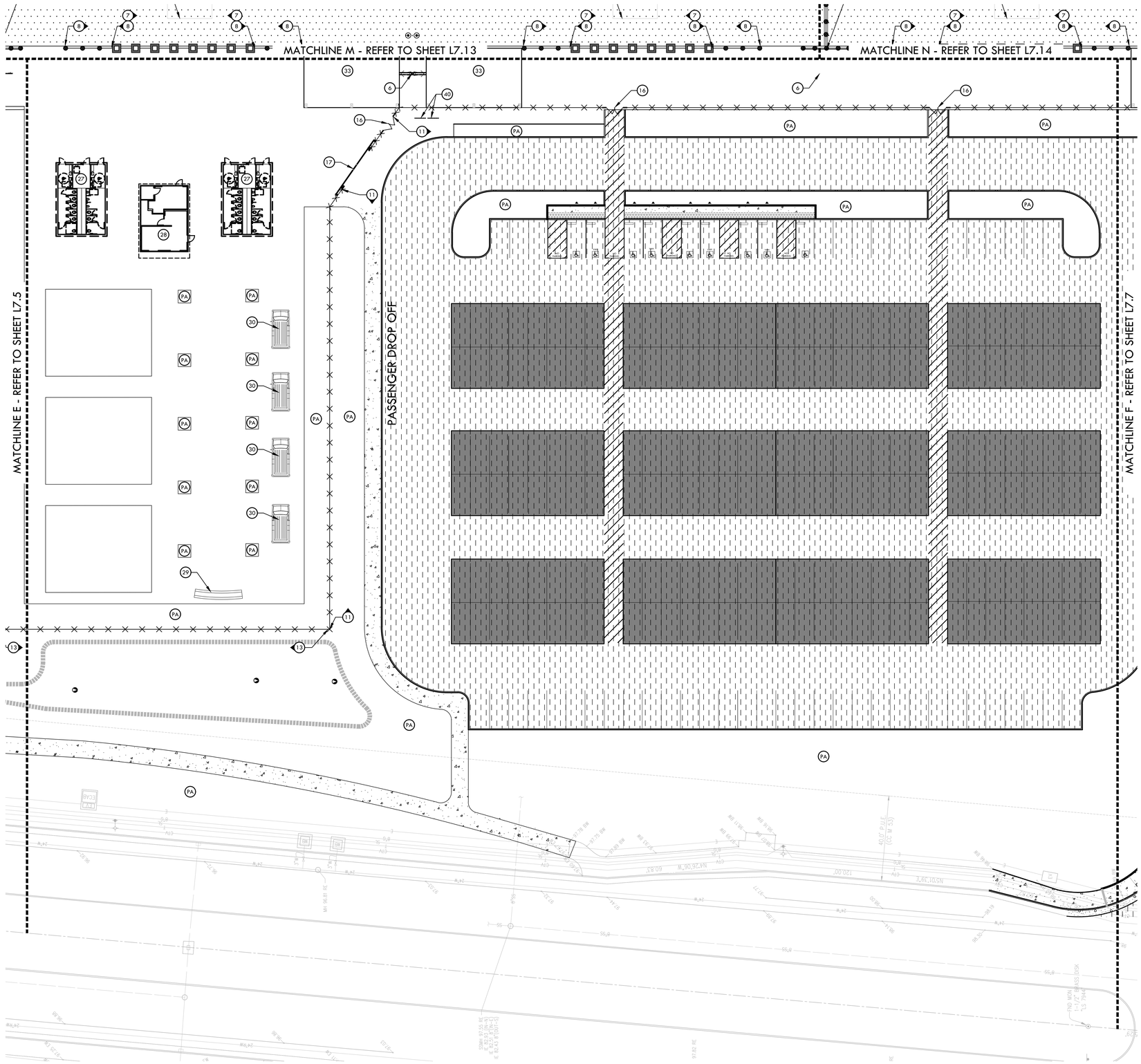
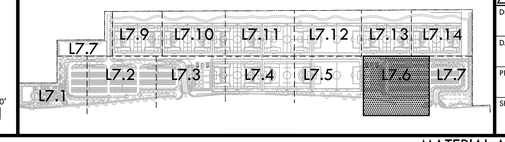
PLOT DATE: 04-29-22 PLOTTED BY: station49





NORTH

0' 10' 20' 40' 80'

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	CONCRETE PAVING - PEDESTRIAN	00 0-0
	CONCRETE PAVING - VEHICULAR	00 0-0
	TRUNCATED DOMES - REFER TO SPECIFICATIONS	00 0-0
	RUBBER SURFACING	00 0-0
	SYNTHETIC TURF PLAY SURFACING	00 0-0
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Signature
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CONSULTANT

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PROJECT ADDRESS
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ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY
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DATE ISSUED 04/29/2022
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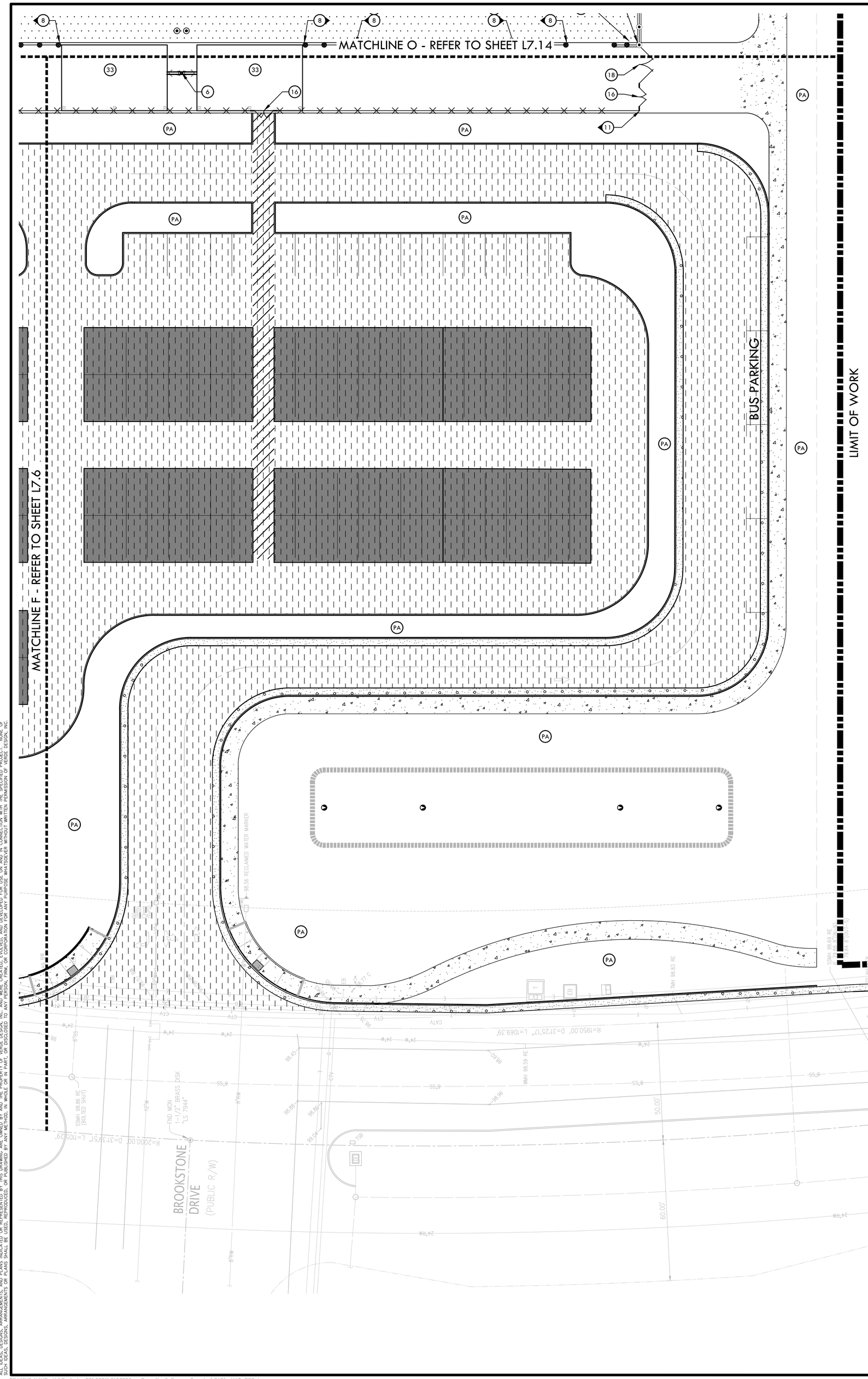
PLOT DATE: 04-29-22 PLOTTED BY: station49



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	TRUNCATED DOMES - REFER TO SPECIFICATIONS	00 0-0
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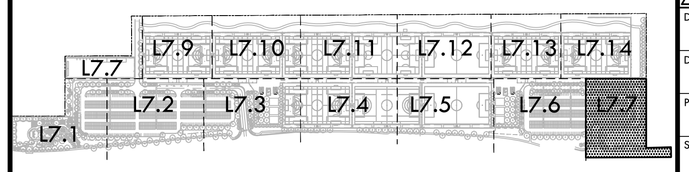
KEY MAP



NORTH

0' 10' 20' 40' 80'

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PROJECT ADDRESS
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ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY
DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
PROJ. NO.: 2103800
SHEET NO.: L7.7

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PLOT DATE: 04-29-22 PLOTTED BY: station49

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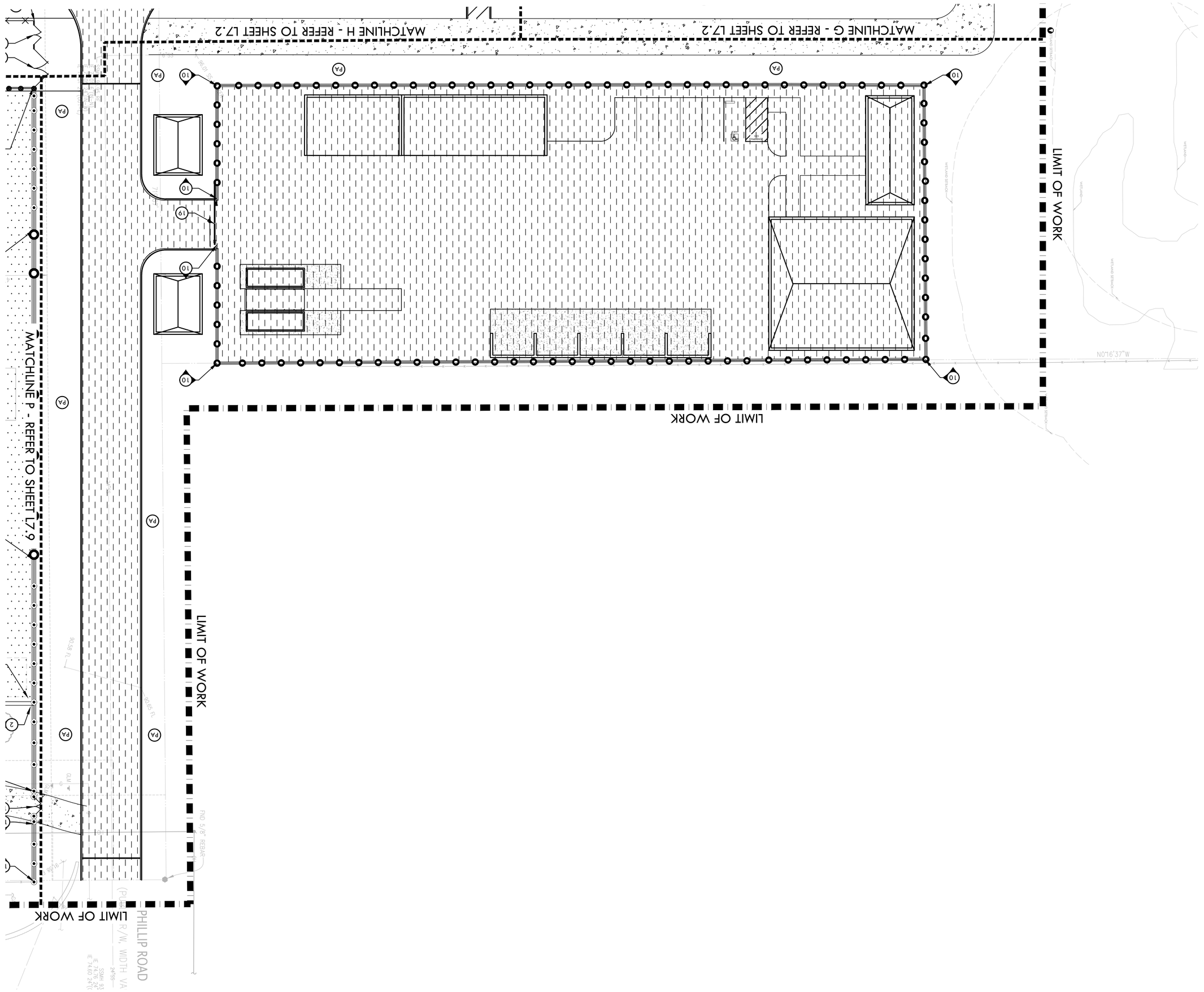
PLOT DATE: 06-24-22 PLOTTED BY: elodiem46



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0' 10' 20' 40' 80'

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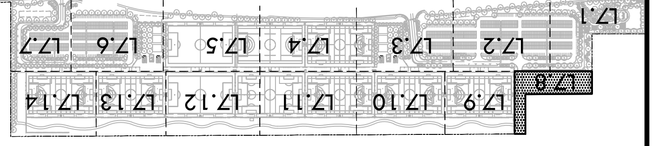

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CONSULTANT

REGISTERED LANDSCAPE ARCHITECT
MARK S. BARNETT
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

STAMP

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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1843 Iron Point Rd. Suite 140
Folsom, CA 95630
ph 916.415.4554
fax 916.415.4525
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MATERIAL AND DETAIL REFERENCE PLAN

SHEET TITLE

ROSEVILLE SOCCER COMPLEX

PROJECT NAME

2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

PROJECT ADDRESS

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

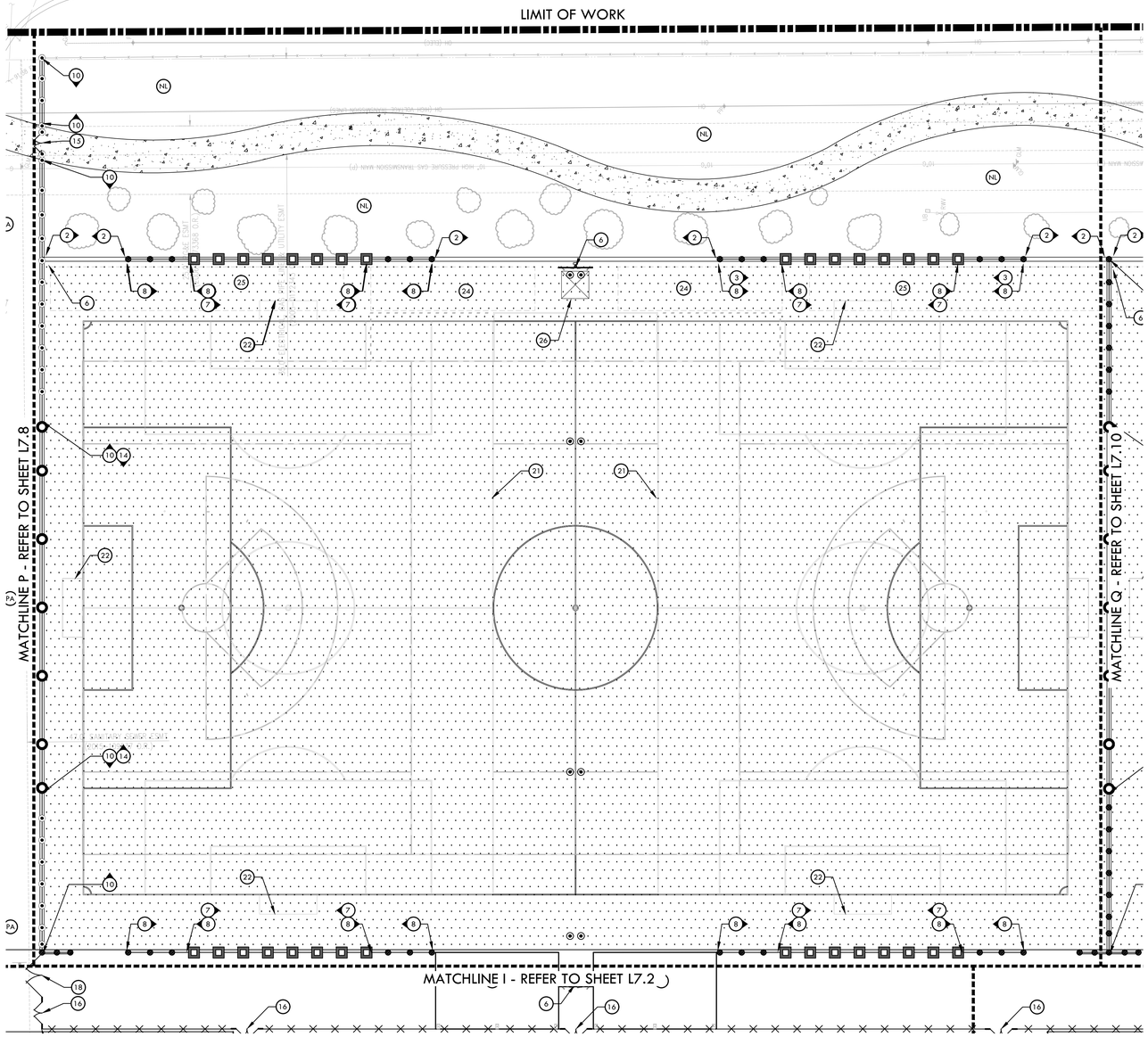
NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY

DATE ISSUED: 04/29/2022
SCALE: 1"=20'-0"

PROJ. NO.: 2103800

SHEET NO.: L7.8



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	ASPHALT PAVING - VEHICULAR	00 0-0
	CONCRETE PAVING - PEDESTRIAN	00 0-0
	CONCRETE PAVING - VEHICULAR	00 0-0
	TRUNCATED DOMES - REFER TO SPECIFICATIONS	00 0-0
	RUBBER SURFACING	00 0-0
	SYNTHETIC TURF PLAY SURFACING	00 0-0
PA	PLANTING AREA - REFER TO PLANTING PLAN	
NL	NATURAL LANDSCAPE AREA - REFER TO PLANTING PLAN	
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1	6" WIDE - EDGEBAND	
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11	8'-0" TALL OMEGA II FENCE	
12	8'-0" TALL OMEGA II FENCE WITH NETTING	
13	8'-0" TALL OMEGA UNIK FENCE WITH CUSTOM PERFORATED SIGN PANELS	
14	16'-0" TALL CHAIN LINK FENCE	
15	8'-0" TALL CHAINLIKE DOUBLE PEDESTRIAN GATES	
16	8'-0" TALL ENHANCED DOUBLE PEDESTRIAN GATES WITH PANIC HARDWARE AND DECORATIVE OVERHEAD ENTRY SIGNS WITH SIDE POSTS	
17	8'T x 20'W ENHANCED OMEGA II VEHICULAR SLIDING GATE WITH DECORATIVE SIDE POSTS	
18	8'T x 16'W DOUBLE MAINTENANCE GATES	
19	8'T x 20'W CHAINLIKE VEHICULAR SLIDING GATE AT MAINTENANCE YARD	
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30	FOOD TRUCK PARKING WITH ELECTRICAL AND WATER HOOK UP	
31	50' FLAG POLE	
32	50'X40' SHADE STRUCTURE AT PLAZA WITH SOLAR CAPABILITIES	
33	45'X28' SHADE STRUCTURE ALONG SPINE WITH SOLAR CAPABILITIES AND SPRAY MISTERS	
34	RESTROOM BUILDING AT PLAYGROUND	
35	38'X20' LEAF SHADE STRUCTURE, BY POLIGON	
36	SEATWALL WITH FABRIC SHADE SAILS , BY POLIGON	
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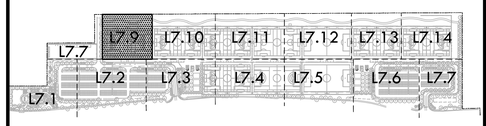

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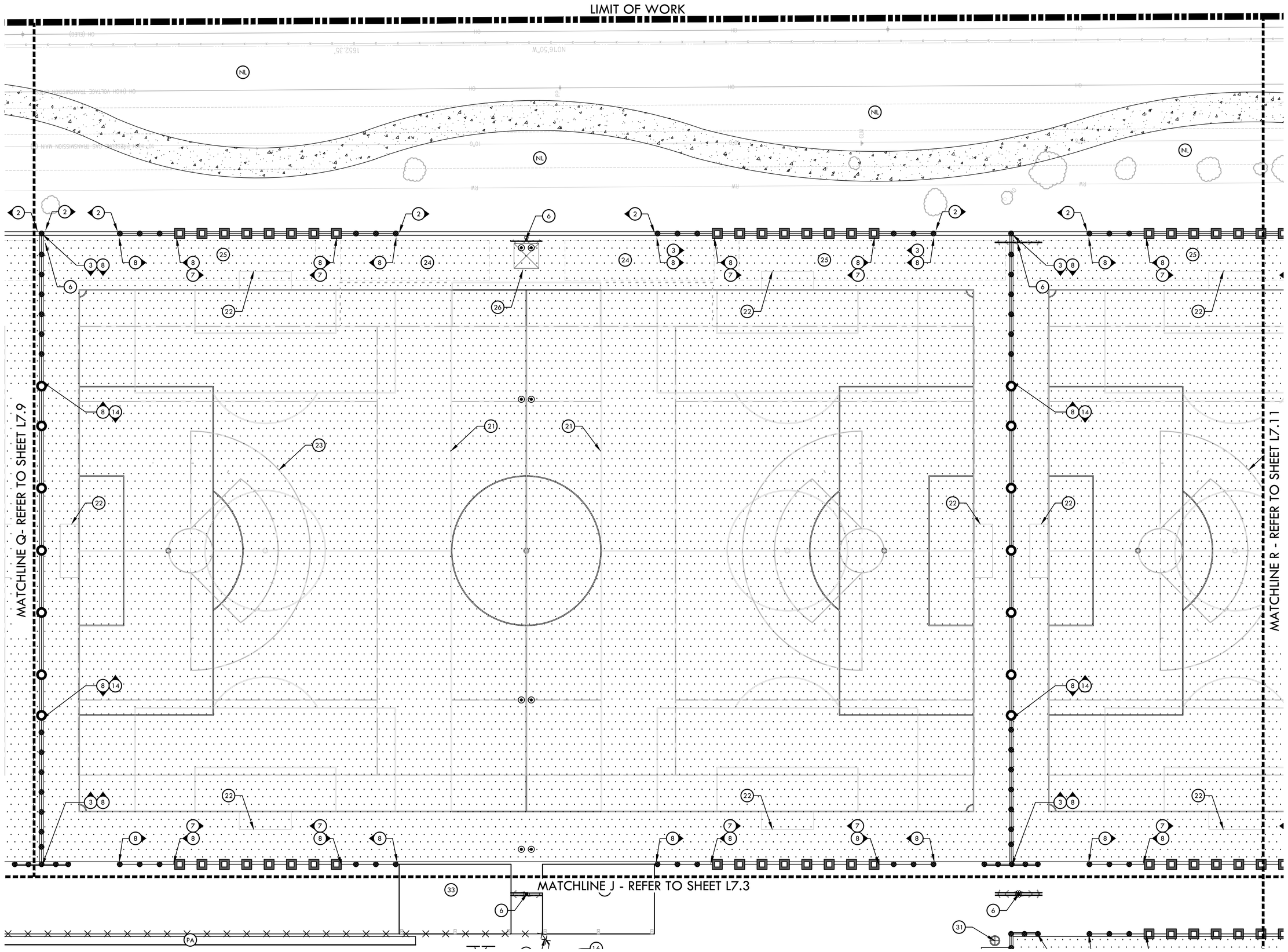
PLOT DATE: 04-29-22 PLOTTED BY: station49



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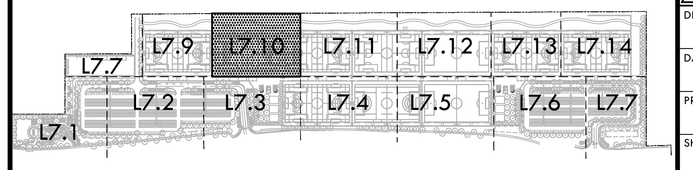

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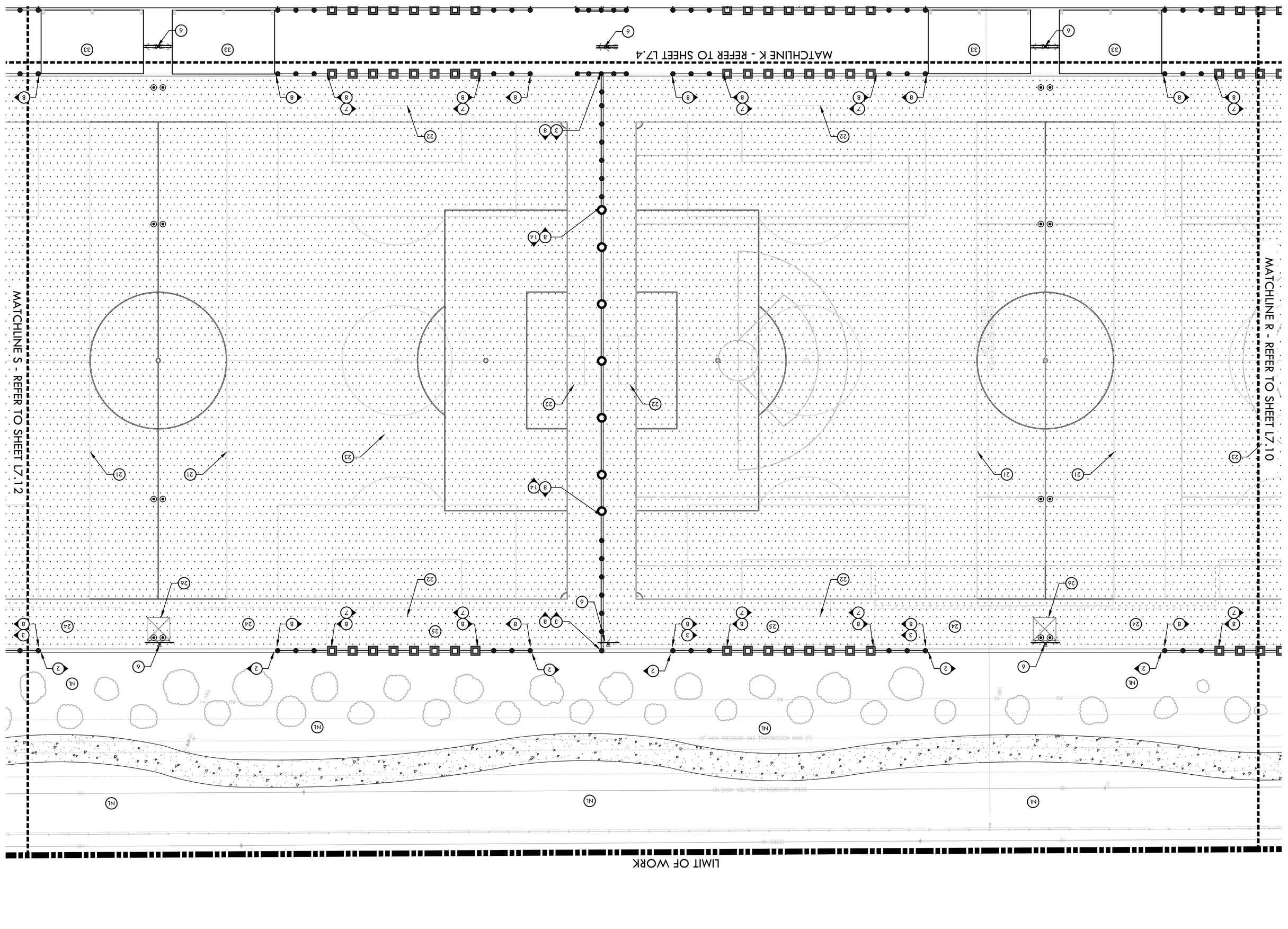

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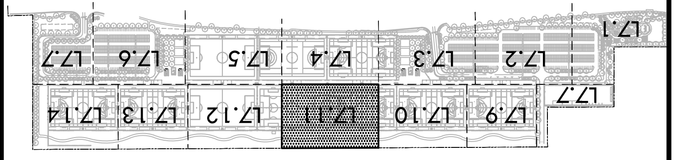

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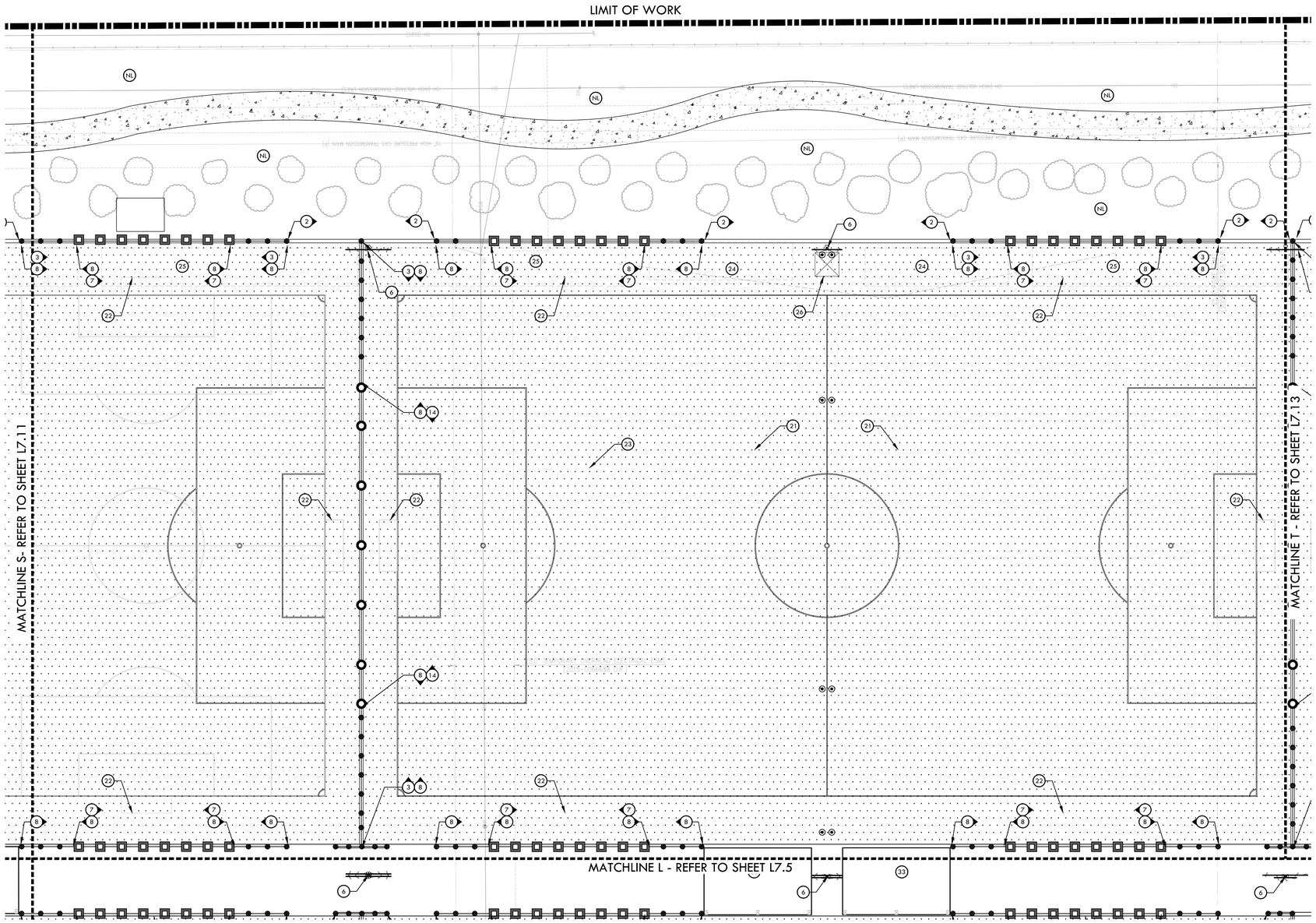

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MATERIAL LEGEND

SYM.	DESCRIPTION	DET REF
	LIMIT OF WORK / CONSTRUCTION FENCING	
	SYNTHETIC TURF	00 0-0
	ASPHALT PAVING - VEHICULAR	00 0-0
	CONCRETE PAVING - PEDESTRIAN	00 0-0
	CONCRETE PAVING - VEHICULAR	00 0-0
	TRUNCATED DOMES - REFER TO SPECIFICATIONS	00 0-0
	RUBBER SURFACING	00 0-0
	SYNTHETIC TURF PLAY SURFACING	00 0-0
PA	PLANTING AREA - REFER TO PLANTING PLAN	
NL	NATURAL LANDSCAPE AREA - REFER TO PLANTING PLAN	
NT	NATURAL TURF GRASS - REFER TO PLANTING PLAN	
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KEY MAP



NORTH

0' 10' 20' 40' 80'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
MATERIAL AND DETAIL REFERENCE PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY

DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"

PROJ. NO. 2103800

SHEET NO. L7.12

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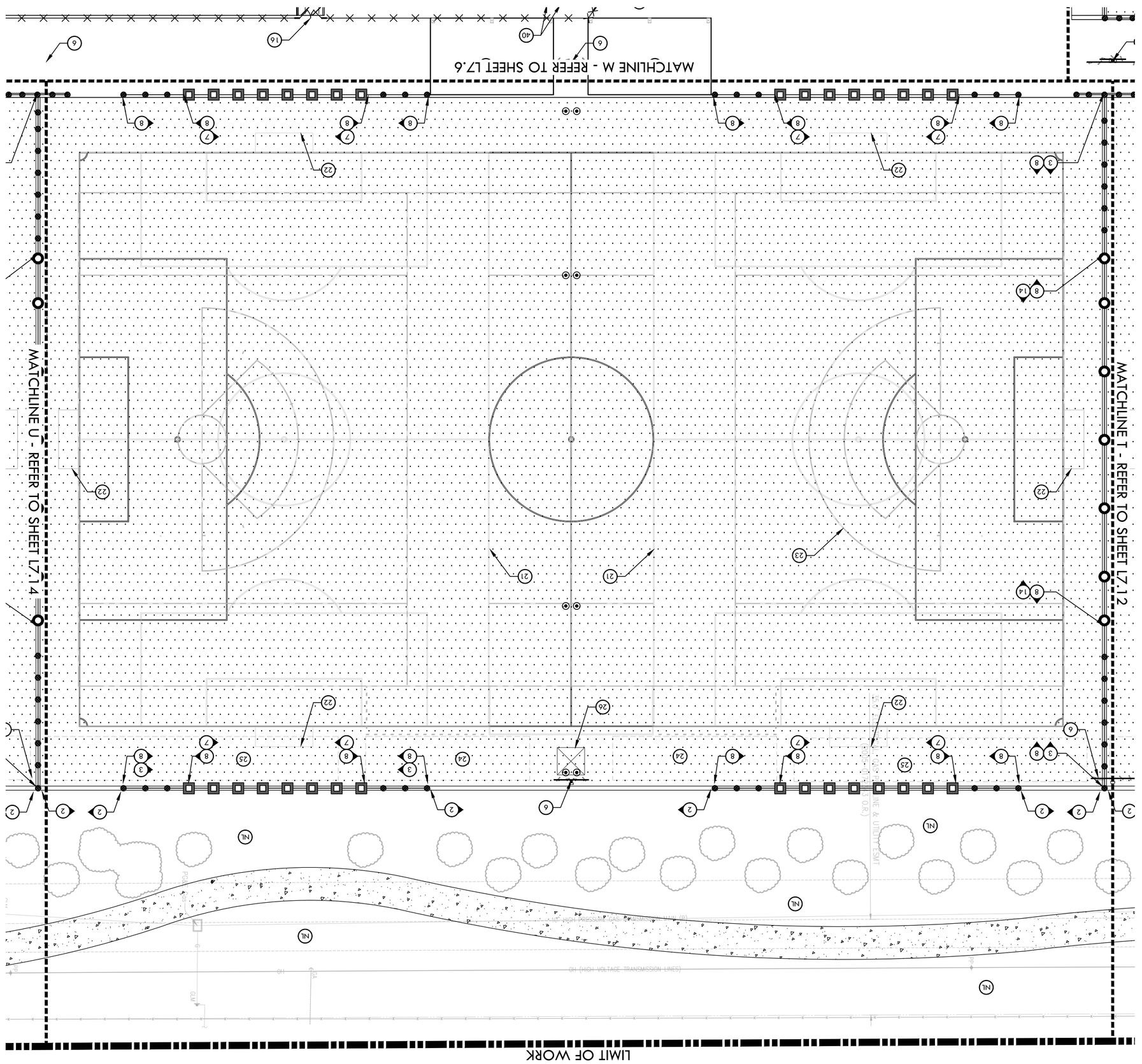

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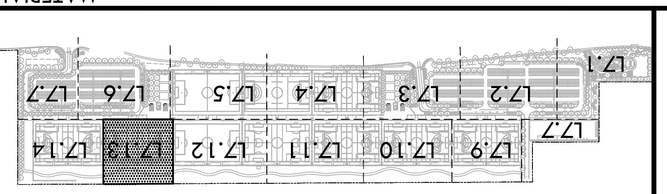

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PROJ. NO.
2103800

SHEET NO.
L7.13

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ROSEVILLE, CA 95747

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SOCCER COMPLEX

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REGISTERED LANDSCAPE ARCHITECT
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No. 4089
Signature
Expiration Date:
JULY 2023
STATE OF CALIFORNIA

CONSULTANT

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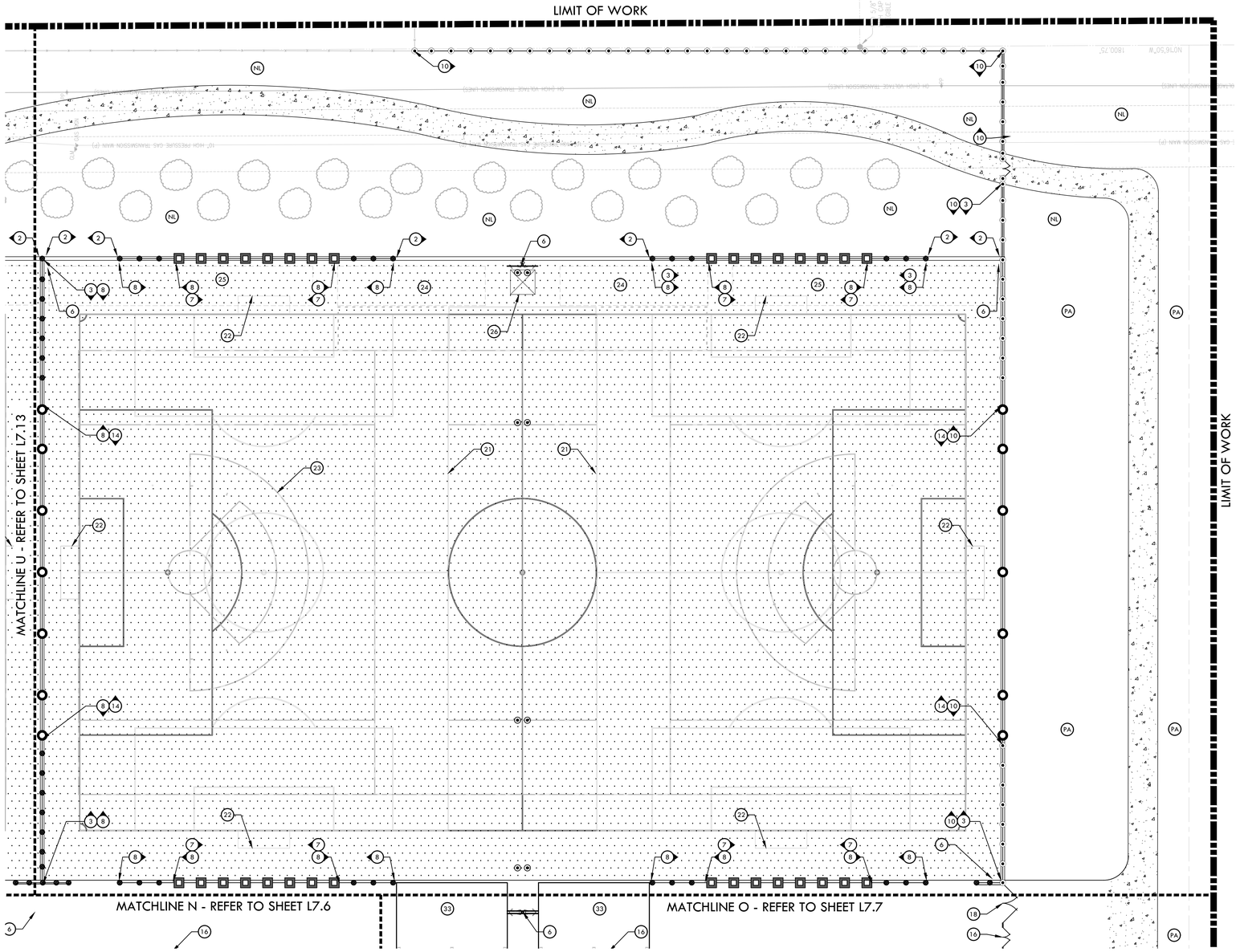

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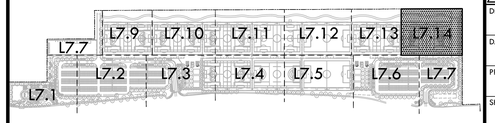
KEY MAP



NORTH

0' 10' 20' 40' 80'

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MARK S. BAGINSKI
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Signature
EXPIRATION DATE: JULY 2023
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ROSEVILLE SOCCER COMPLEX

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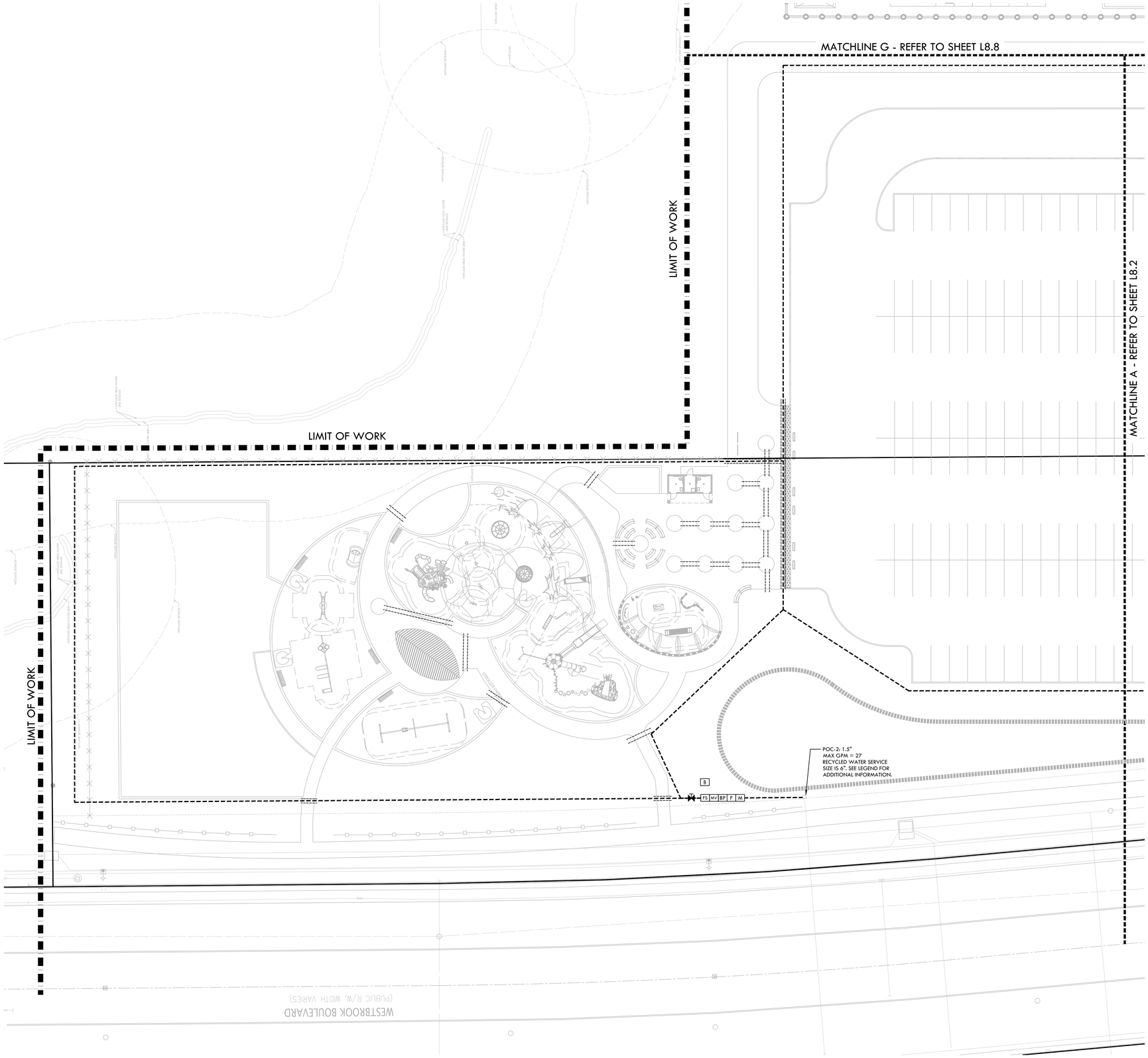


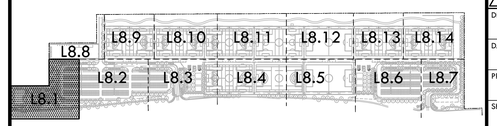
IRRIGATION NOTES

1. POC 1 IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF (90) GPM AND POC 2 IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF (27) GPM WITH A MINIMUM (60) STATIC P.S.I. AT BOTH POINTS OF CONNECTION. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK. CONTACT OWNER IMMEDIATELY SHOULD DISCREPANCY ARISE AND RE-DIRECT WORK TO AVOID DELAY.
2. CONTRACTOR SHALL COORDINATE ELECTRICAL SUPPLY WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL STUB APPROPRIATE POWER SUPPLY IN VICINITY OF CONTROLLER LOCATION.
3. IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE PLANTING AREAS, OR LIMIT OF WORK; INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN PLANTING AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS. REFER TO SPECIFICATIONS.
4. CONTRACTOR SHALL PROGRAM CONTROLLER TO ENSURE PROPER IRRIGATION. BASED ON PLANT TYPE, EXPOSURE AND SEASON.
5. CONTRACTOR SHALL USE EXTREME CARE WHERE IT IS NECESSARY TO TRENCH NEAR EXISTING TREES. EXCAVATION IN AREAS EXHIBITING ROOT 3" AND LARGER SHALL BE DONE BY HAND. ROOTS 2" OR LARGER IN DIAMETER DAMAGED IN CONSTRUCTION SHALL BE CLEANLY CUT.
6. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY.
7. CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. ALL IRRIGATION COMPONENTS SHALL HAVE RECYCLED WATER IDENTIFIERS EXCEPT IRRIGATION BOXES. REFER TO SPECIFICATIONS.

IRRIGATION LEGEND

SYM.	MANUFAC.	MODEL NO./ DESCRIPTION	RAD.	GPM	PSI	DET REF
○	RAINBIRD	ROTOR 8000 OR 5500	-	-	30	
•	RAINBIRD	SPRAY HEADS R-VAN NOZZLES 1800 P45	-	-	30	
▲	RAINBIRD	BUBBLERS R-VAN SIDE STRIP NOZZLES 1800 PRS SERIES	-	-	30	
△	RAINBIRD	-	-	-	30	
◔◒■◓	RAINBIRD	-	-	-	30	
◔◓◉◒	RAINBIRD	-	-	-	30	
◔◓●◒	RAINBIRD	-	-	-	30	
⊗	RAINBIRD	-	-	-	50	
⊖	RAINBIRD	-	-	-	50	
○	RAINBIRD	-	-	-	50	
⊕	RAINBIRD	-	-	-	50	
	RAINBIRD	PESB-PRS-D-R SERIES PRESSURE REGULATED PLASTIC REMOTE CONTROL VALVE. SIZE AS SHOWN, INSTALL WITHIN VALVE BOX AND 'RCV' HEAT BRANDED ON COVER. INSTALL WITH ISOLATION VALVE PER CITY STANDARD DETAIL				
	NIBCO	NIBCO GATE VALVES SHALL BE LINE SIZED PER PLANS: VALVES 3" AND SMALLER SHALL BE NIBCO T-113-LF. VALVES 4" AND LARGER SHALL BE NIBCO F-619-LF FLANGED VALVE WITH SQUARE OPERATING UNIT.				
	RAINBIRD	QUICK COUPLER: RAINBIRD 44-NP: 1" NON-POTABLE, PURPLE LOCKING COVER, 2-PIECE BODY WITH 44-KEY AND SH-1 HOSE SWIVEL				
M		CONTRACTOR SHALL PURCHASE 4" RECYCLED WATER METER, SINGLE CHECK BACKFLOW DEVICE AND RESILIENT SEAT GATE VALVE THROUGH THE CITY AND INSTALL IN APPROXIMATE LOCATION AS SHOWN ON THE PLANS. INSTALL PER CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT STANDARDS AND DETAILS, LATEST EDITION.				
F		AMIAD MANUAL STEEL FILTER PER CITY OF ROSEVILLE STANDARDS, MATCH LINE SIZE OF RECYCLED WATER METER.				
FS		CALSENSE MODEL FM-2B WITH MINIMUM FLOW READING OF 11 GPM AND MAXIMUM FLOW READING OF 166 GPM				
MV		3" SUPERIOR MODEL 3300-RW, ELECTRIC GLOBE VALVE CONSTRUCTED OF BRASS. REFER TO STANDARD SPECIFICATIONS, VALVE SHALL BE INSTALLED IN A 'JUMBO' SIZED VALVE BOX WITH LOCKING COVER AND 'MV' HEAT BRANDED ON COVER				
RV		6" CAL-VAL MODEL 690-01 DI BODY, SS TRIM AND PILOT VALVE RATED FOR 15-75 PSI				
BP		CUSTOM PUMP AND POWER. MODEL:				
A		3" IRRIGATION CONTROLLER				
B		1.3" IRRIGATION CONTROLLER				
		MAINLINE - 2-1/2" AND SMALLER: SCHEDULE 40 PURPLE PVC PIPE WITH SOLVENT-WELD FITTINGS AT 24" DEPTH. MAINLINE 3" AND LARGER: CLASS 200 PURPLE PVC PIPE RUBBER GASKETED PIPE AT 24" DEPTH. MAINLINE SHOWN IN HARDSCAPE FOR PLAN CLARITY. CONTRACTOR SHALL INSTALL MAIN LINE IN ADJACENT PLANTER AREA.				
		MAINLINE FOR POTABLE COUPLERS: 2" SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS WITH 24" COVER				
		LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER, SIZE AS SHOWN. SEE NOTE NO. 10.				
		IRRIGATION SLEEVE - PIPE AT PAVEMENTS (SLEEVES) SHALL BE SCHEDULE 40 PVC. SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.				
		1" ELECTRICAL CONDUIT FOR FLOW SENSOR WIRING - SCH. 80 PVC AT 30" DEPTH WITH DETECTION LOCATOR TAPE.				
1 / 1" / 11.3		CONTROLLER STATION NUMBER APPROX. GPM FLOW THROUGH VALVE CONTROL VALVE SIZE				
P.O.C.		POINT OF CONNECTION -CONTRACTOR TO FIELD LOCATE EXISTING 6" RECYCLED WATER LINE WITH BOX AND BLOW-OFF VALVE INSIDE. TAP INTO RECYCLED WATER LINE AND EXTEND MAINLINE TO PROJECT SITE AS SHOWN.				
1		CONTRACTOR TO TIE MAIN LINE FOR QUICK COUPLERS TO DOMESTIC WATER LINE. INSTALL GATE VALVE AND BACKFLOW PREVENTER.				
2		IRRIGATION MAINLINE, LATERAL LINE AND VALVES SHOWN IN CONCRETE FOR PLAN CLARITY. CONTRACTOR SHALL INSTALL MAINLINE IN ADJACENT PLANTING AREA PER CITY STANDARD DETAIL.				
		BACKFLOW PREVENTER FOR QUICK COUPLERS: WILKENS 1-1/2", MODEL 975XL REDUCED PRESSURE BACKFLOW PREVENTION DEVICE				

KEY MAP



NORTH

0' 10' 20' 40' 80'

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fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
IRRIGAITON PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY

DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"

PROJ. NO. 2103800

SHEET NO. L8.1

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DRAWING NAME: N:\Projects-FD\2021\2103800 - Roseville 6 Soccer Complex\CAD_IRR-RSC.dwg
PLOT DATE: 06-24-22 PLOTTED BY: station46



IRRIGATION NOTES

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2. CONTRACTOR SHALL COORDINATE ELECTRICAL SUPPLY WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL STUB APPROPRIATE POWER SUPPLY IN VICINITY OF CONTROLLER LOCATION.
3. IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE PLANTING AREAS, OR LIMIT OF WORK; INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN PLANTING AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS. REFER TO SPECIFICATIONS.
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IRRIGATION LEGEND

SYM.	MANUFAC.	MODEL NO./ DESCRIPTION	RAD.	GPM	PSI	DET REF
	RAINBIRD	ROTOR 8000 OR 5500	-	-	30	
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▲	RAINBIRD	BUBBLERS R-VAN SIDE STRIP NOZZLES 1800 PRS SERIES	-	-	30	
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	RAINBIRD	-	-	-	30	
	RAINBIRD	-	-	-	30	
	RAINBIRD	-	-	-	30	
	RAINBIRD	-	-	-	50	
	RAINBIRD	-	-	-	50	
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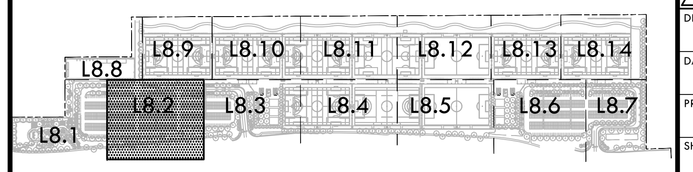
KEY MAP



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0' 10' 20' 40' 80'

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STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
IRRIGATION PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE 1"=20'-0"
PROJ. NO. 2103800	
SHEET NO. L8.2	

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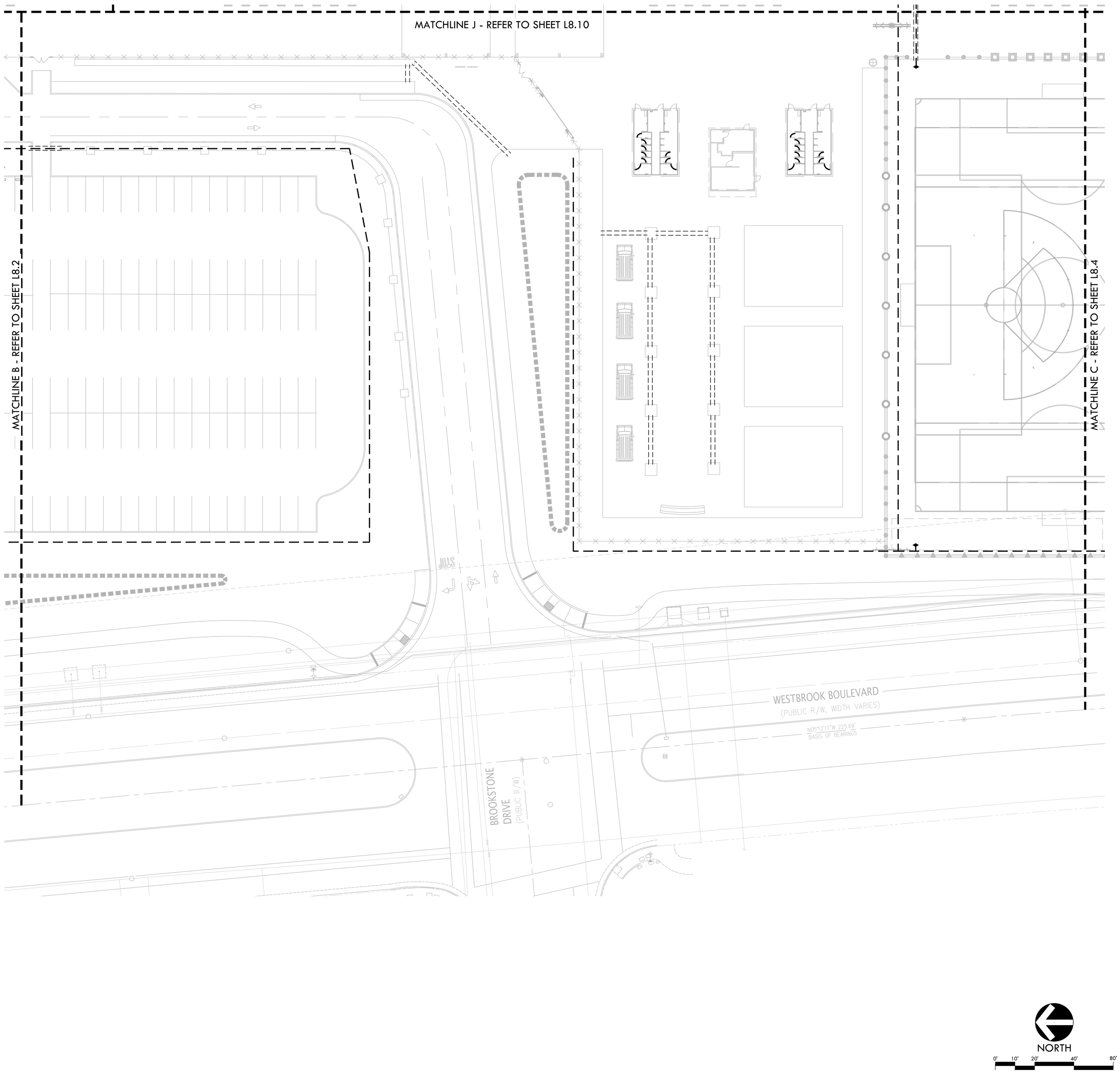
DRAWING NAME: Y:\Projects-FO\2021\2103800 - Roseville 6 Soccer Complex\CAD_IRR-RSC.dwg
PLOT DATE: 04-29-22 PLOTTED BY: station46



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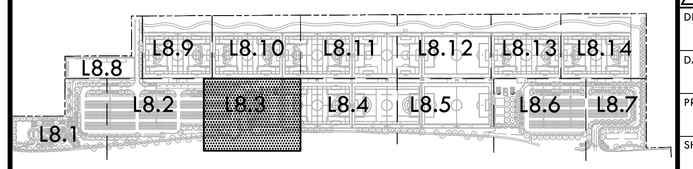

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PROJECT ADDRESS
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SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

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DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"

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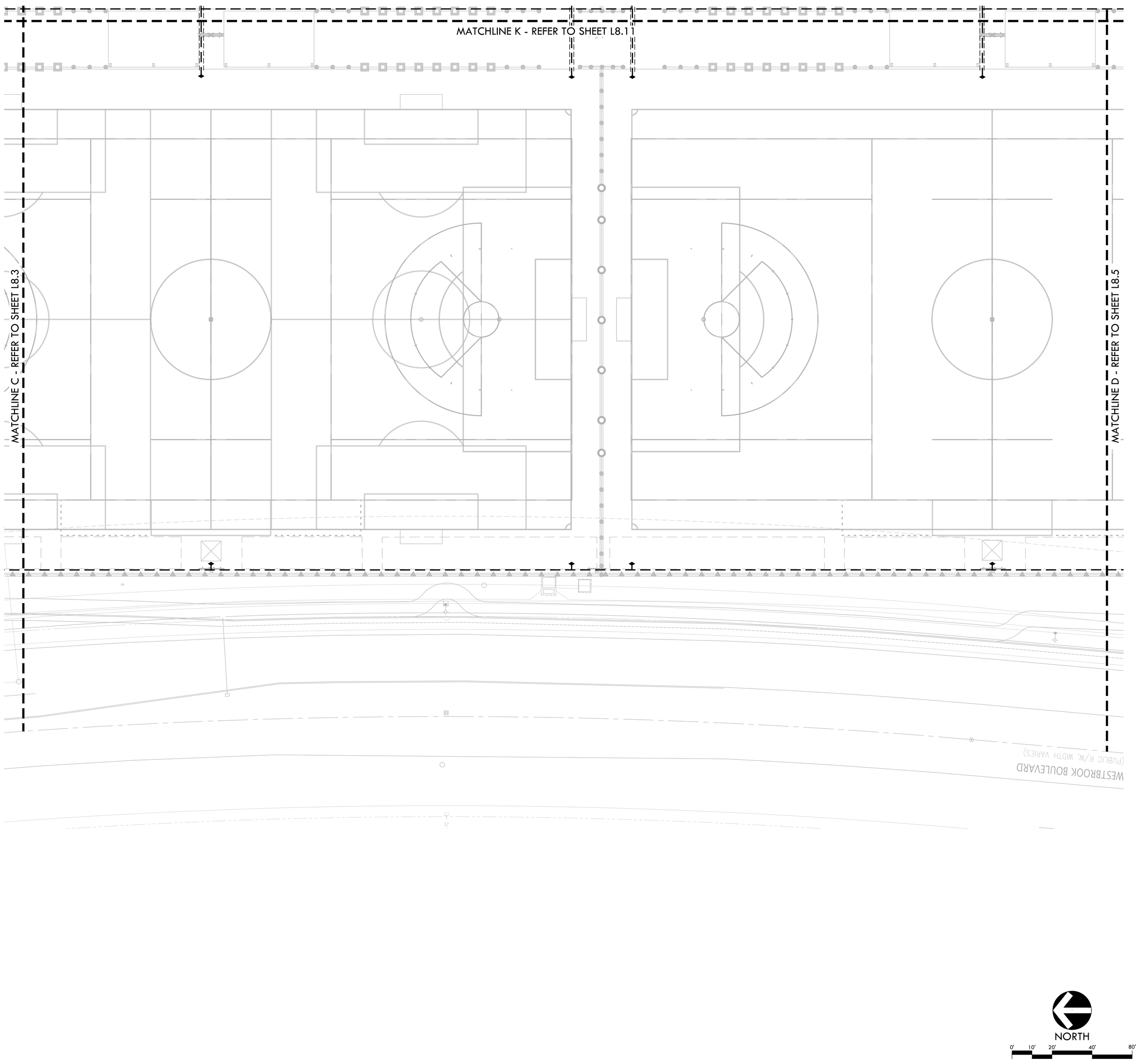
DRAWING NAME: V:\Projects-FY\2021\2103800 - Roseville 6 Soccer Complex\CAD_IRR-Rdc.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station49



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◓	RAINBIRD	PESB-PRS-D-R SERIES PRESSURE REGULATED PLASTIC REMOTE CONTROL VALVE. SIZE AS SHOWN, INSTALL WITHIN VALVE BOX AND 'RCV' HEAT BRANDED ON COVER. INSTALL WITH ISOLATION VALVE PER CITY STANDARD DETAIL				
⋈	NIBCO	NIBCO GATE VALVES SHALL BE LINE SIZED PER PLANS: VALVES 3" AND SMALLER SHALL BE NIBCO T-113-LF. VALVES 4" AND LARGER SHALL BE NIBCO F-619-LF FLANGED VALVE WITH SQUARE OPERATING UNIT.				
♦	RAINBIRD	QUICK COUPLER: RAINBIRD 44-NP: 1" NON-POTABLE, PURPLE LOCKING COVER, 2-PIECE BODY WITH 44-KEY AND SH-1 HOSE SWIVEL				
M		CONTRACTOR SHALL PURCHASE 4" RECYCLED WATER METER, SINGLE CHECK BACKFLOW DEVICE AND RESILIENT SEAT GATE VALVE THROUGH THE CITY AND INSTALL IN APPROXIMATE LOCATION AS SHOWN ON THE PLANS. INSTALL PER CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT STANDARDS AND DETAILS, LATEST EDITION.				
F		AMIAD MANUAL STEEL FILTER PER CITY OF ROSEVILLE STANDARDS, MATCH LINE SIZE OF RECYCLED WATER METER.				
FS		CALSENSE MODEL FM-2B WITH MINIMUM FLOW READING OF 11 GPM AND MAXIMUM FLOW READING OF 166 GPM				
MV		3" SUPERIOR MODEL 3300-RW, ELECTRIC GLOBE VALVE CONSTRUCTED OF BRASS. REFER TO STANDARD SPECIFICATIONS, VALVE SHALL BE INSTALLED IN A 'JUMBO' SIZED VALVE BOX WITH LOCKING COVER AND 'MV' HEAT BRANDED ON COVER				
RV		6" CAL-VAL MODEL 690-01 DI BODY, SS TRIM AND PILOT VALVE RATED FOR 15-75 PSI				
BP		CUSTOM PUMP AND POWER. MODEL:				
A		3" IRRIGATION CONTROLLER				
B		1.3" IRRIGATION CONTROLLER				
— —		MAINLINE - 2-1/2" AND SMALLER: SCHEDULE 40 PURPLE PVC PIPE WITH SOLVENT-WELD FITTINGS AT 24" DEPTH. MAINLINE 3" AND LARGER: CLASS 200 PURPLE PVC PIPE RUBBER GASKETED PIPE AT 24" DEPTH. MAINLINE SHOWN IN HARDSCAPE FOR PLAN CLARITY. CONTRACTOR SHALL INSTALL MAIN LINE IN ADJACENT PLANTER AREA.				
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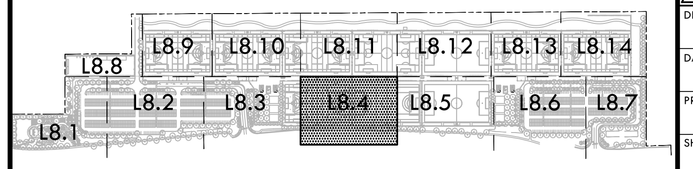
- - - -		IRRIGATION SLEEVE - PIPE AT PAVEMENTS (SLEEVES) SHALL BE SCHEDULE 40 PVC. SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.				
·····		1" ELECTRICAL CONDUIT FOR FLOW SENSOR WIRING - SCH. 80 PVC AT 30" DEPTH WITH DETECTION LOCATOR TAPE.				
1 / 1" | 1.3		CONTROLLER STATION NUMBER APPROX. GPM FLOW THROUGH VALVE CONTROL VALVE SIZE				
P.O.C.		POINT OF CONNECTION -CONTRACTOR TO FIELD LOCATE EXISTING 6" RECYCLED WATER LINE WITH BOX AND BLOW-OFF VALVE INSIDE. TAP INTO RECYCLED WATER LINE AND EXTEND MAINLINE TO PROJECT SITE AS SHOWN.				
①		CONTRACTOR TO TIE MAIN LINE FOR QUICK COUPLERS TO DOMESTIC WATER LINE. INSTALL GATE VALVE AND BACKFLOW PREVENTER.				
②		IRRIGATION MAINLINE, LATERAL LINE AND VALVES SHOWN IN CONCRETE FOR PLAN CLARITY. CONTRACTOR SHALL INSTALL MAINLINE IN ADJACENT PLANTING AREA PER CITY STANDARD DETAIL.				
◥		BACKFLOW PREVENTER FOR QUICK COUPLERS: WILKENS 1-1/2", MODEL 975XL REDUCED PRESSURE BACKFLOW PREVENTION DEVICE				

KEY MAP



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CONSULTANT

SHEET TITLE
IRRIGATION PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY
CHECKED BY
DATE ISSUED 04/29/2022
SCALE 1"=20'-0"
PROJ. NO. 2103800
SHEET NO. L8.4

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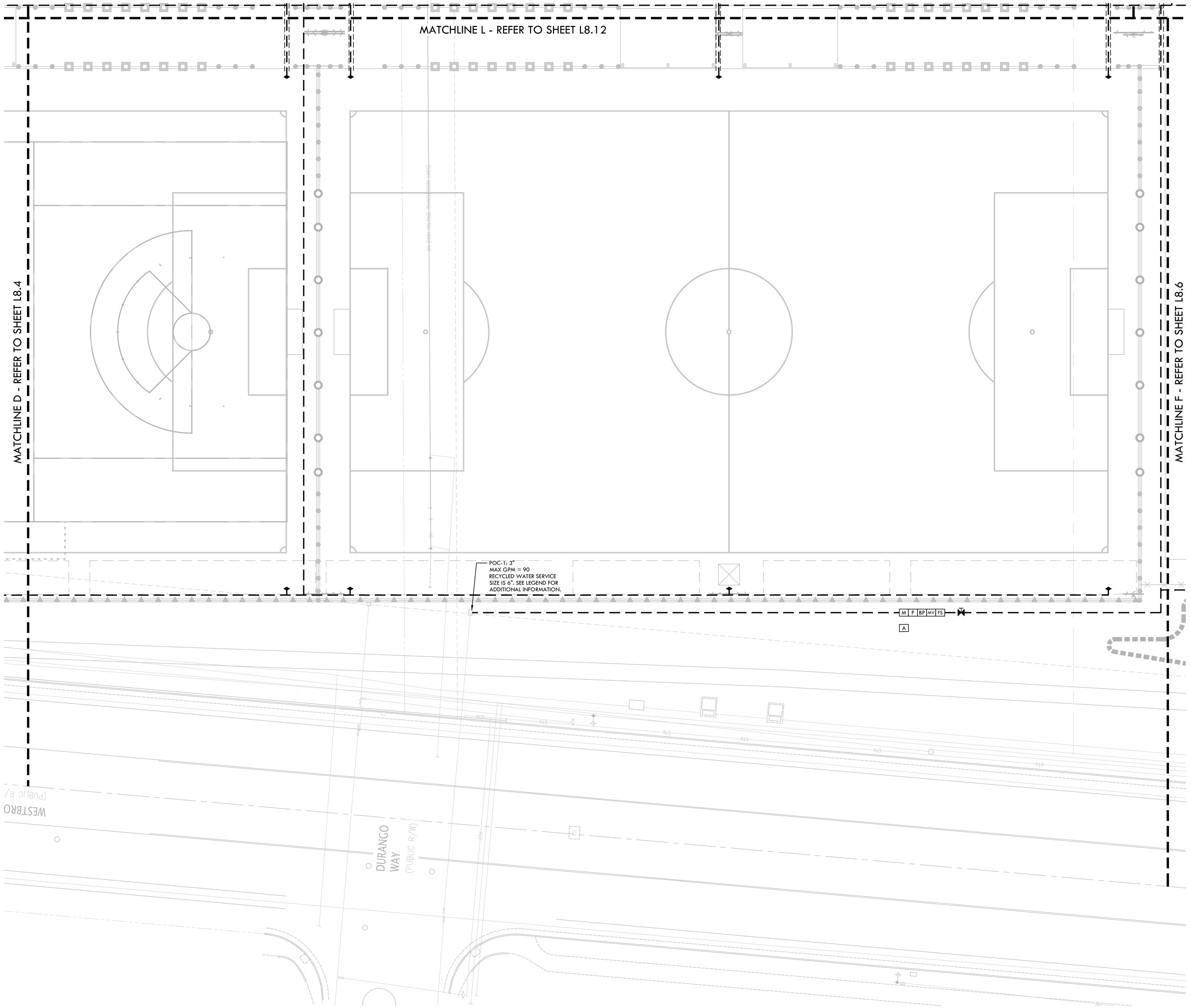
DRAWING NAME: Y:\Projects-FY\2021\2103800 - Roseville 6 Soccer Complex\CAD_IRR-Rdc.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station49



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IRRIGATION LEGEND

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◔◓◕◒	RAINBIRD	-	-	-	30	
◔◓◕◒	RAINBIRD	-	-	-	30	
◔◓◕◒	RAINBIRD	-	-	-	30	
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A		3" IRRIGATION CONTROLLER				
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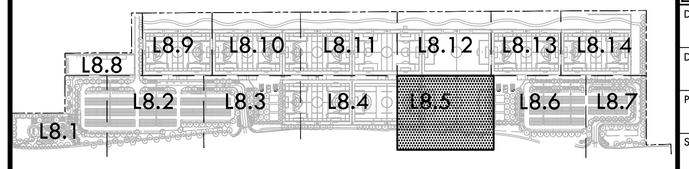
KEY MAP



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PROJECT ADDRESS
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ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE
1		
2		
3		
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DRAWN BY | CHECKED BY
DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
PROJ. NO.: 2103800
SHEET NO.: L8.5

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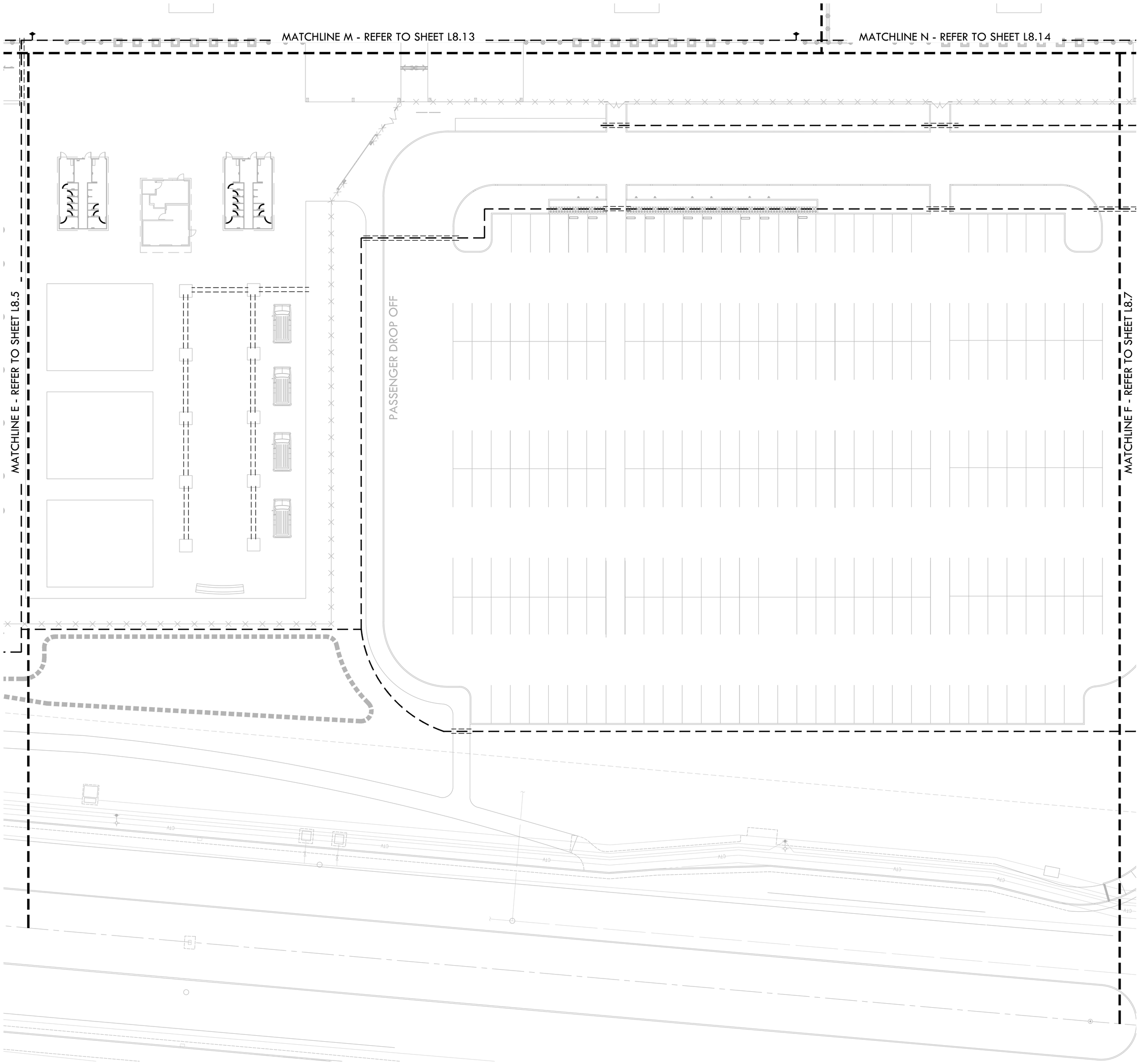
PLOT DATE: 04-28-22 PLOTTED BY: station49



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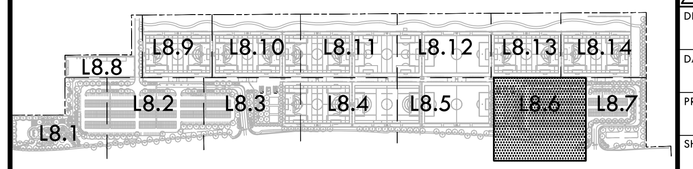

NORTH

0' 10' 20' 40' 80'

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STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
IRRIGATION PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
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ROSEVILLE, CA 95747

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NO.	REVISIONS	DATE

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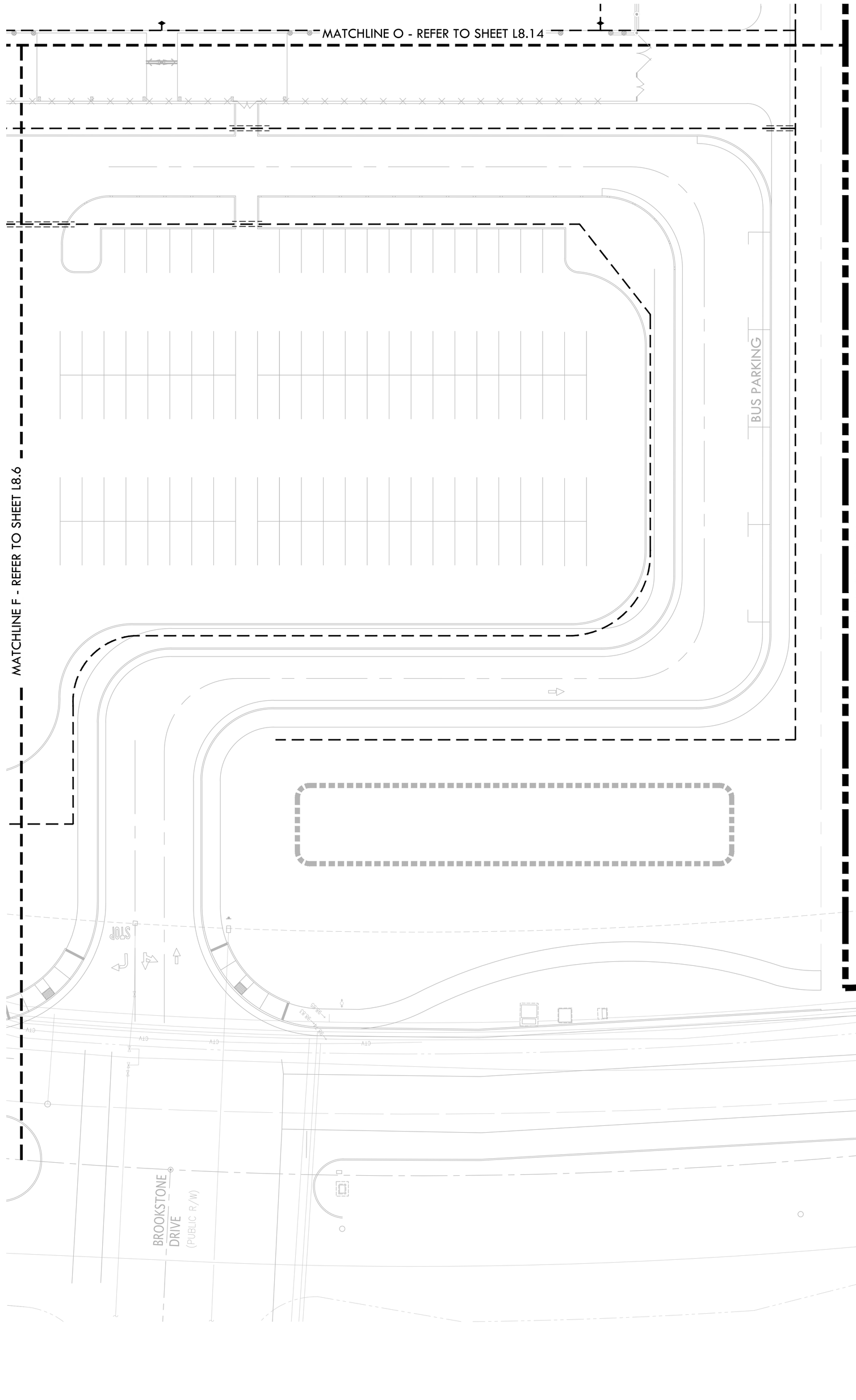
PLOT DATE: 04-29-22 PLOTTED BY: station46



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•	RAINBIRD	SPRAY HEADS R-VAN NOZZLES 1800 P45	-	-	30	
▲	RAINBIRD	BUBBLERS R-VAN SIDE STRIP NOZZLES 1800 PRS SERIES	-	-	30	
△	RAINBIRD	-	-	-	30	
	RAINBIRD	-	-	-	30	
	RAINBIRD	-	-	-	30	
	RAINBIRD	-	-	-	30	
	RAINBIRD	-	-	-	50	
	RAINBIRD	-	-	-	50	
	RAINBIRD	-	-	-	50	
	RAINBIRD	-	-	-	50	
	RAINBIRD	PESB-PRS-D-R SERIES PRESSURE REGULATED PLASTIC REMOTE CONTROL VALVE. SIZE AS SHOWN, INSTALL WITHIN VALVE BOX AND "RCV" HEAT BRANDED ON COVER. INSTALL WITH ISOLATION VALVE PER CITY STANDARD DETAIL				
	NIBCO	NIBCO GATE VALVES SHALL BE LINE SIZED PER PLANS: VALVES 3" AND SMALLER SHALL BE NIBCO T-113-LF. VALVES 4" AND LARGER SHALL BE NIBCO F-619-LF FLANGED VALVE WITH SQUARE OPERATING UNIT.				
	RAINBIRD	QUICK COUPLER: RAINBIRD 44-NP: 1" NON-POTABLE, PURPLE LOCKING COVER, 2-PIECE BODY WITH 44-KEY AND SH-1 HOSE SWIVEL				
M		CONTRACTOR SHALL PURCHASE 4" RECYCLED WATER METER, SINGLE CHECK BACKFLOW DEVICE AND RESILIENT SEAT GATE VALVE THROUGH THE CITY AND INSTALL IN APPROXIMATE LOCATION AS SHOWN ON THE PLANS. INSTALL PER CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT STANDARDS AND DETAILS, LATEST EDITION.				
F		AMIAD MANUAL STEEL FILTER PER CITY OF ROSEVILLE STANDARDS, MATCH LINE SIZE OF RECYCLED WATER METER.				
FS		CALSENSE MODEL FM-2B WITH MINIMUM FLOW READING OF 11 GPM AND MAXIMUM FLOW READING OF 166 GPM				
MV		3" SUPERIOR MODEL 3300-RW, ELECTRIC GLOBE VALVE CONSTRUCTED OF BRASS. REFER TO STANDARD SPECIFICATIONS, VALVE SHALL BE INSTALLED IN A 'JUMBO' SIZED VALVE BOX WITH LOCKING COVER AND 'MV' HEAT BRANDED ON COVER				
RV		6" CAL-VAL MODEL 690-01 DI BODY, SS TRIM AND PILOT VALVE RATED FOR 15-75 PSI				
BP		CUSTOM PUMP AND POWER. MODEL:				
A		3" IRRIGATION CONTROLLER				
B		1.3" IRRIGATION CONTROLLER				
		MAINLINE - 2-1/2" AND SMALLER: SCHEDULE 40 PURPLE PVC PIPE WITH SOLVENT-WELD FITTINGS AT 24" DEPTH. MAINLINE 3" AND LARGER: CLASS 200 PURPLE PVC PIPE RUBBER GASKETED PIPE AT 24" DEPTH. MAINLINE SHOWN IN HARDSCAPE FOR PLAN CLARITY. CONTRACTOR SHALL INSTALL MAIN LINE IN ADJACENT PLANTER AREA.				
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		LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER, SIZE AS SHOWN. SEE NOTE NO. 10.				
		IRRIGATION SLEEVE - PIPE AT PAVEMENTS (SLEEVES) SHALL BE SCHEDULE 40 PVC. SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.				
		1" ELECTRICAL CONDUIT FOR FLOW SENSOR WIRING - SCH. 80 PVC AT 30" DEPTH WITH DETECTION LOCATOR TAPE.				
1 / 1" / 1.3		CONTROLLER STATION NUMBER APPROX. GPM FLOW THROUGH VALVE CONTROL VALVE SIZE				
P.O.C.		POINT OF CONNECTION -CONTRACTOR TO FIELD LOCATE EXISTING 6" RECYCLED WATER LINE WITH BOX AND BLOW-OFF VALVE INSIDE. TAP INTO RECYCLED WATER LINE AND EXTEND MAINLINE TO PROJECT SITE AS SHOWN.				
1		CONTRACTOR TO TIE MAIN LINE FOR QUICK COUPLERS TO DOMESTIC WATER LINE. INSTALL GATE VALVE AND BACKFLOW PREVENTER.				
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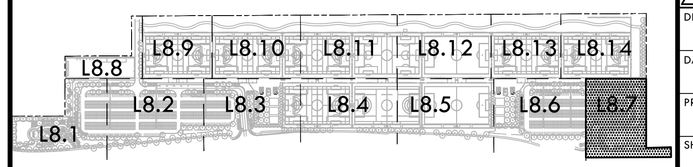
		BACKFLOW PREVENTER FOR QUICK COUPLERS: WILKENS 1-1/2", MODEL 975XL REDUCED PRESSURE BACKFLOW PREVENTION DEVICE				

KEY MAP



NORTH

0' 10' 20' 40' 80'

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tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

CONSULTANT

SHEET TITLE
IRRIGATION PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY
DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
PROJ. NO.: 2103800
SHEET NO.: L8.7

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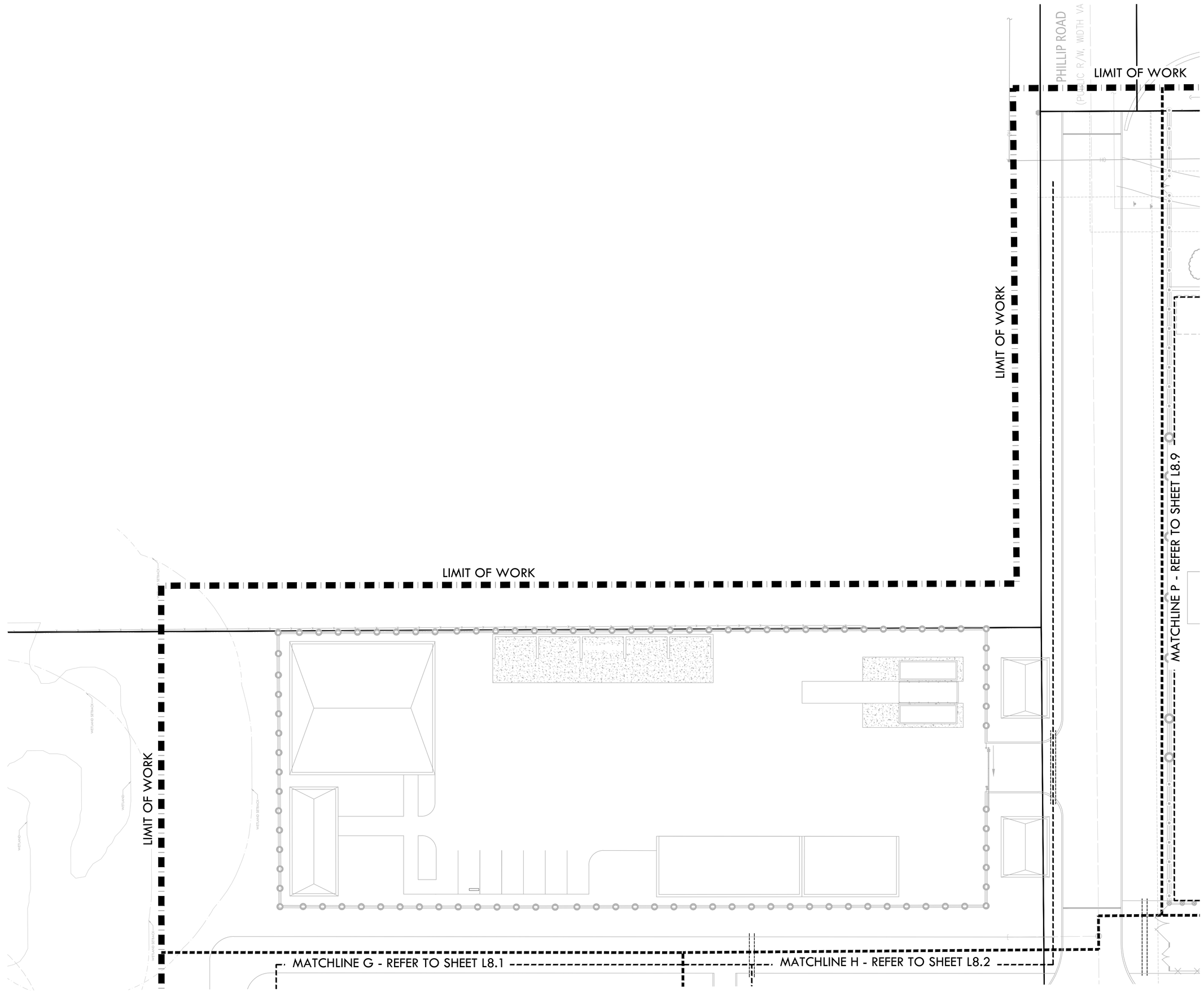
DRAWING NAME: V:\Projects-FO\2021\2103800 - Roseville 6 Soccer Complex\CAD_IRR-RSC.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station49



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	RAINBIRD	-	-	-	30	
	RAINBIRD	-	-	-	30	
	RAINBIRD	-	-	-	50	
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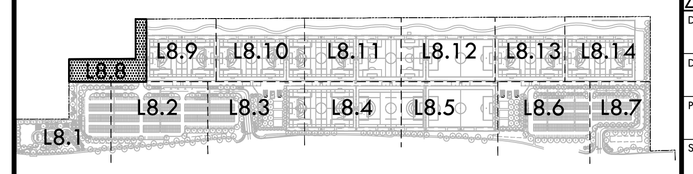
KEY MAP



NORTH

0' 10' 20' 40' 80'

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STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
IRRIGAITON PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY
DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
PROJ. NO.: 2103800
SHEET NO.: L8.8

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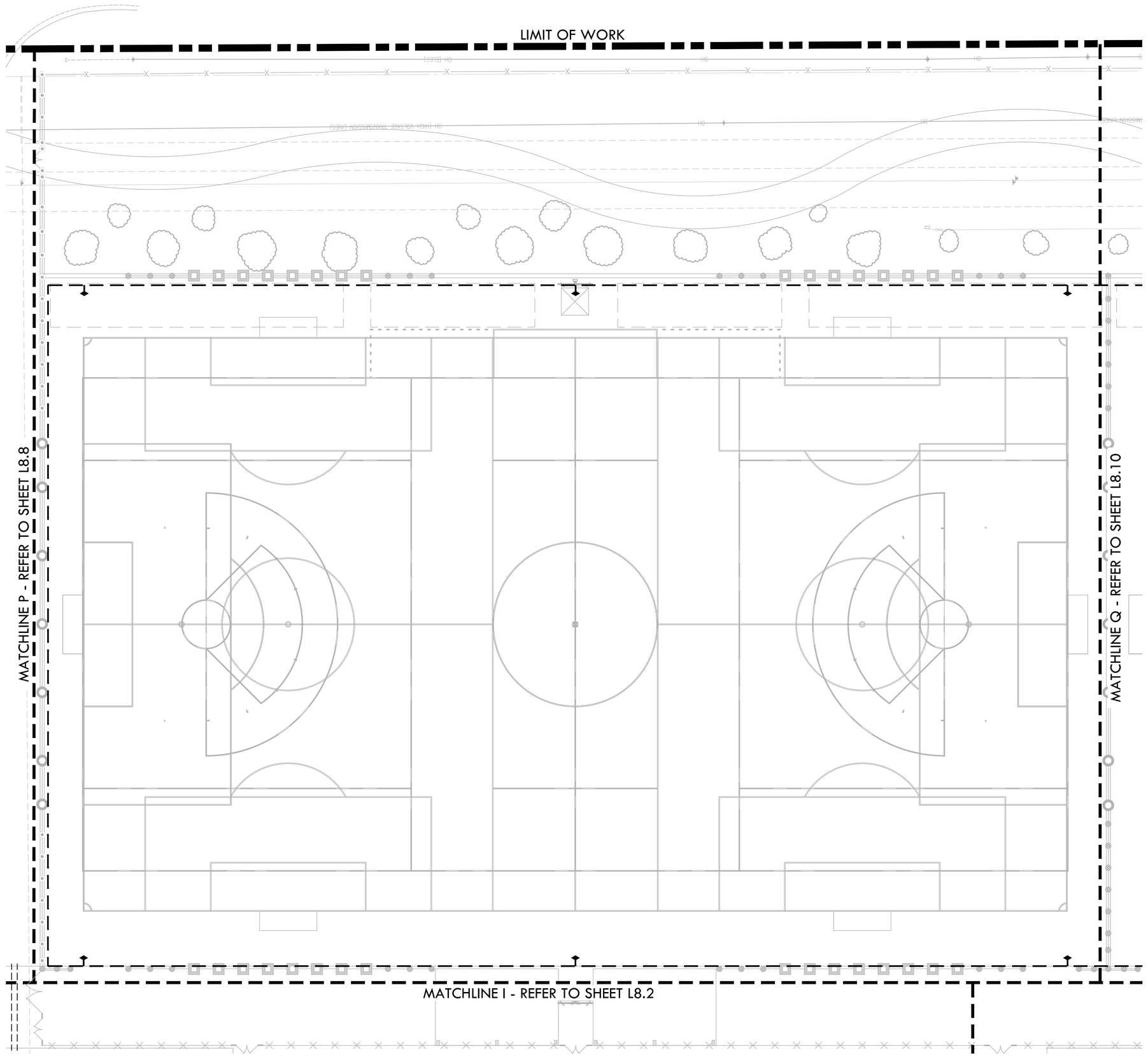
DRAWING NAME: N:\Projects-FY\2021\2103800 - Roseville 6 Soccer Complex\CAD_IRR-RSC.dwg
PLOT DATE: 06-24-22 PLOTTED BY: station46



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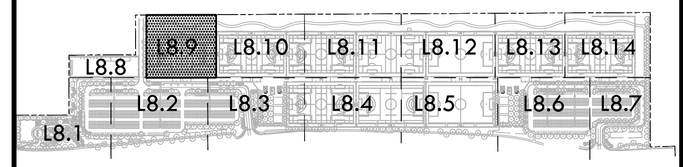

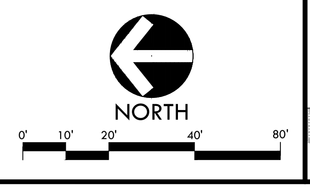

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PROJECT ADDRESS
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ROSEVILLE, CA 95747

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30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY
DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
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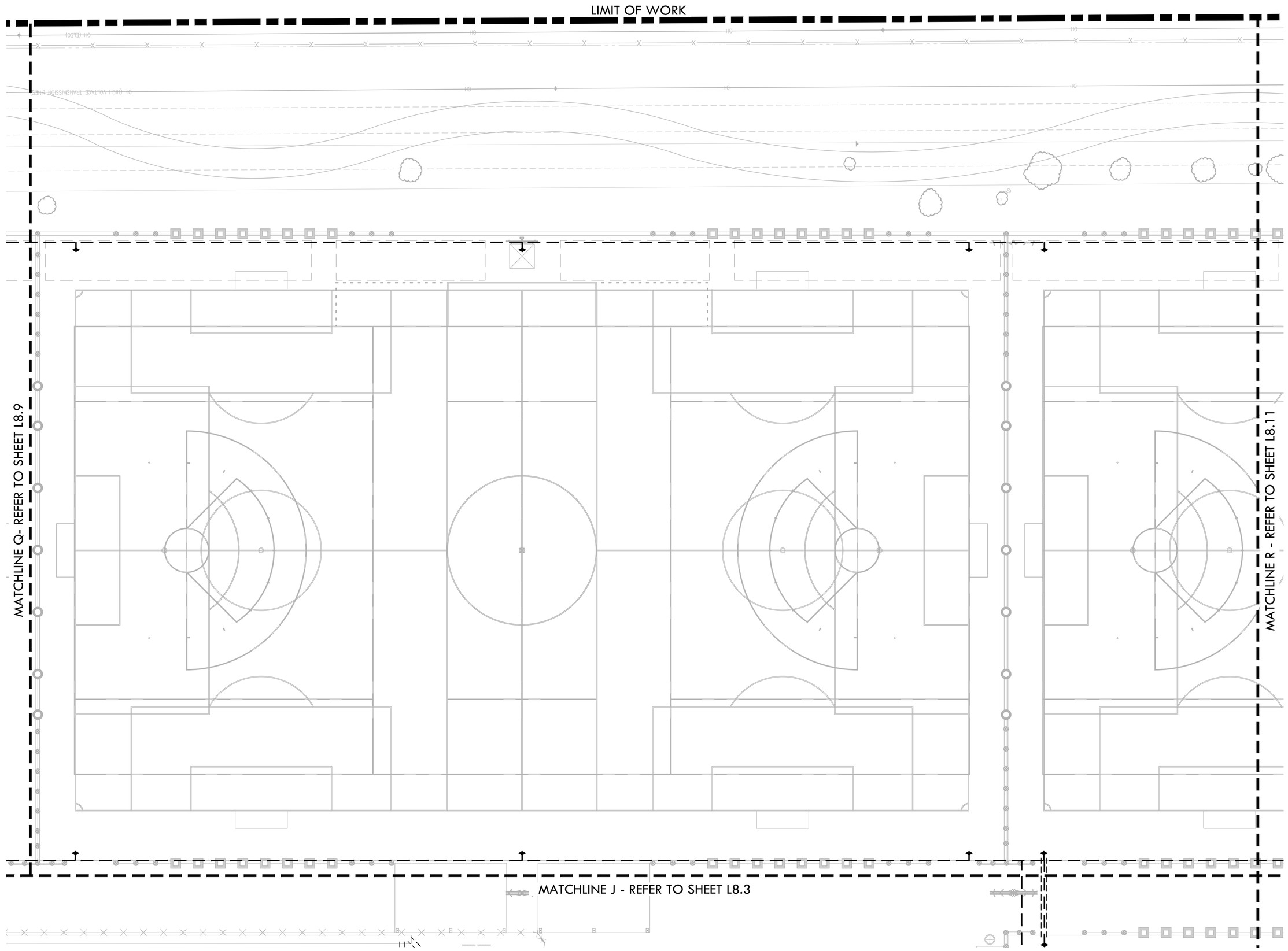

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IRRIGATION LEGEND

SYM.	MANUFAC.	MODEL NO./ DESCRIPTION	RAD.	GPM	PSI	DET REF
○	RAINBIRD	ROTOR 8000 OR 5500	-	.-	30	
•	RAINBIRD	SPRAY HEADS R-VAN NOZZLES 1800 P45	-	-	30	
▲	RAINBIRD	BUBBLERS R-VAN SIDE STRIP NOZZLES 1800 PRS SERIES	-	-	30	
△	RAINBIRD	-	-	-	30	
◔◓■◒	RAINBIRD	-	-	-	30	
◔◓◉◒	RAINBIRD	-	-	-	30	
◔◓●◒	RAINBIRD	-	-	-	30	
⊗	RAINBIRD	-	-	-	50	
⊖	RAINBIRD	-	-	-	50	
⬡	RAINBIRD	-	-	-	50	
⊕	RAINBIRD	-	-	-	50	
	RAINBIRD	PESB-PRS-D-R SERIES PRESSURE REGULATED PLASTIC REMOTE CONTROL VALVE. SIZE AS SHOWN, INSTALL WITHIN VALVE BOX AND 'RCV' HEAT BRANDED ON COVER. INSTALL WITH ISOLATION VALVE PER CITY STANDARD DETAIL				
	NIBCO	NIBCO GATE VALVES SHALL BE LINE SIZED PER PLANS: VALVES 3" AND SMALLER SHALL BE NIBCO T-113-LF. VALVES 4" AND LARGER SHALL BE NIBCO F-619-LF FLANGED VALVE WITH SQUARE OPERATING UNIT.				
	RAINBIRD	QUICK COUPLER: RAINBIRD 44-NP: 1" NON-POTABLE, PURPLE LOCKING COVER, 2-PIECE BODY WITH 44-KEY AND SH-1 HOSE SWIVEL				
M		CONTRACTOR SHALL PURCHASE 4" RECYCLED WATER METER, SINGLE CHECK BACKFLOW DEVICE AND RESILIENT SEAT GATE VALVE THROUGH THE CITY AND INSTALL IN APPROXIMATE LOCATION AS SHOWN ON THE PLANS. INSTALL PER CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT STANDARDS AND DETAILS, LATEST EDITION.				
F		AMIAD MANUAL STEEL FILTER PER CITY OF ROSEVILLE STANDARDS, MATCH LINE SIZE OF RECYCLED WATER METER.				
FS		CALSENSE MODEL FM-2B WITH MINIMUM FLOW READING OF 11 GPM AND MAXIMUM FLOW READING OF 166 GPM				
MV		3" SUPERIOR MODEL 3300-RW, ELECTRIC GLOBE VALVE CONSTRUCTED OF BRASS. REFER TO STANDARD SPECIFICATIONS, VALVE SHALL BE INSTALLED IN A 'JUMBO' SIZED VALVE BOX WITH LOCKING COVER AND 'MV' HEAT BRANDED ON COVER				
RV		6" CAL-VAL MODEL 690-01 DI BODY, SS TRIM AND PILOT VALVE RATED FOR 15-75 PSI				
BP		CUSTOM PUMP AND POWER. MODEL:				
A		3" IRRIGATION CONTROLLER				
B		1.3" IRRIGATION CONTROLLER				
		MAINLINE - 2-1/2" AND SMALLER: SCHEDULE 40 PURPLE PVC PIPE WITH SOLVENT-WELD FITTINGS AT 24" DEPTH. MAINLINE 3" AND LARGER: CLASS 200 PURPLE PVC PIPE RUBBER GASKETED PIPE AT 24" DEPTH. MAINLINE SHOWN IN HARDSCAPE FOR PLAN CLARITY. CONTRACTOR SHALL INSTALL MAIN LINE IN ADJACENT PLANTER AREA.				
		MAINLINE FOR POTABLE COUPLERS: 2" SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS WITH 24" COVER				
		LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER, SIZE AS SHOWN. SEE NOTE NO. 10.				
		IRRIGATION SLEEVE - PIPE AT PAVEMENTS (SLEEVES) SHALL BE SCHEDULE 40 PVC. SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.				
		1" ELECTRICAL CONDUIT FOR FLOW SENSOR WIRING - SCH. 80 PVC AT 30" DEPTH WITH DETECTION LOCATOR TAPE.				
1 / 1" / 11.2		CONTROLLER STATION NUMBER APPROX. GPM FLOW THROUGH VALVE CONTROL VALVE SIZE				
P.O.C.		POINT OF CONNECTION -CONTRACTOR TO FIELD LOCATE EXISTING 6" RECYCLED WATER LINE WITH BOX AND BLOW-OFF VALVE INSIDE. TAP INTO RECYCLED WATER LINE AND EXTEND MAINLINE TO PROJECT SITE AS SHOWN.				
1		CONTRACTOR TO TIE MAIN LINE FOR QUICK COUPLERS TO DOMESTIC WATER LINE. INSTALL GATE VALVE AND BACKFLOW PREVENTER.				
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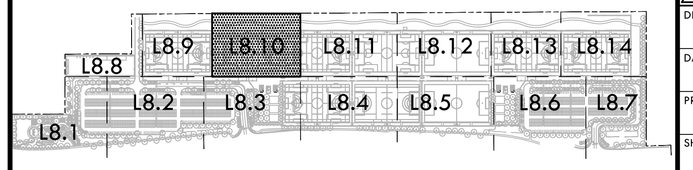
		BACKFLOW PREVENTER FOR QUICK COUPLERS: WILKENS 1-1/2", MODEL 975XL REDUCED PRESSURE BACKFLOW PREVENTION DEVICE				

KEY MAP



NORTH

0' 10' 20' 40' 80'

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CONSULTANT

SHEET TITLE
IRRIGATION PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY

DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"

PROJ. NO. 2103800

SHEET NO. L8.10

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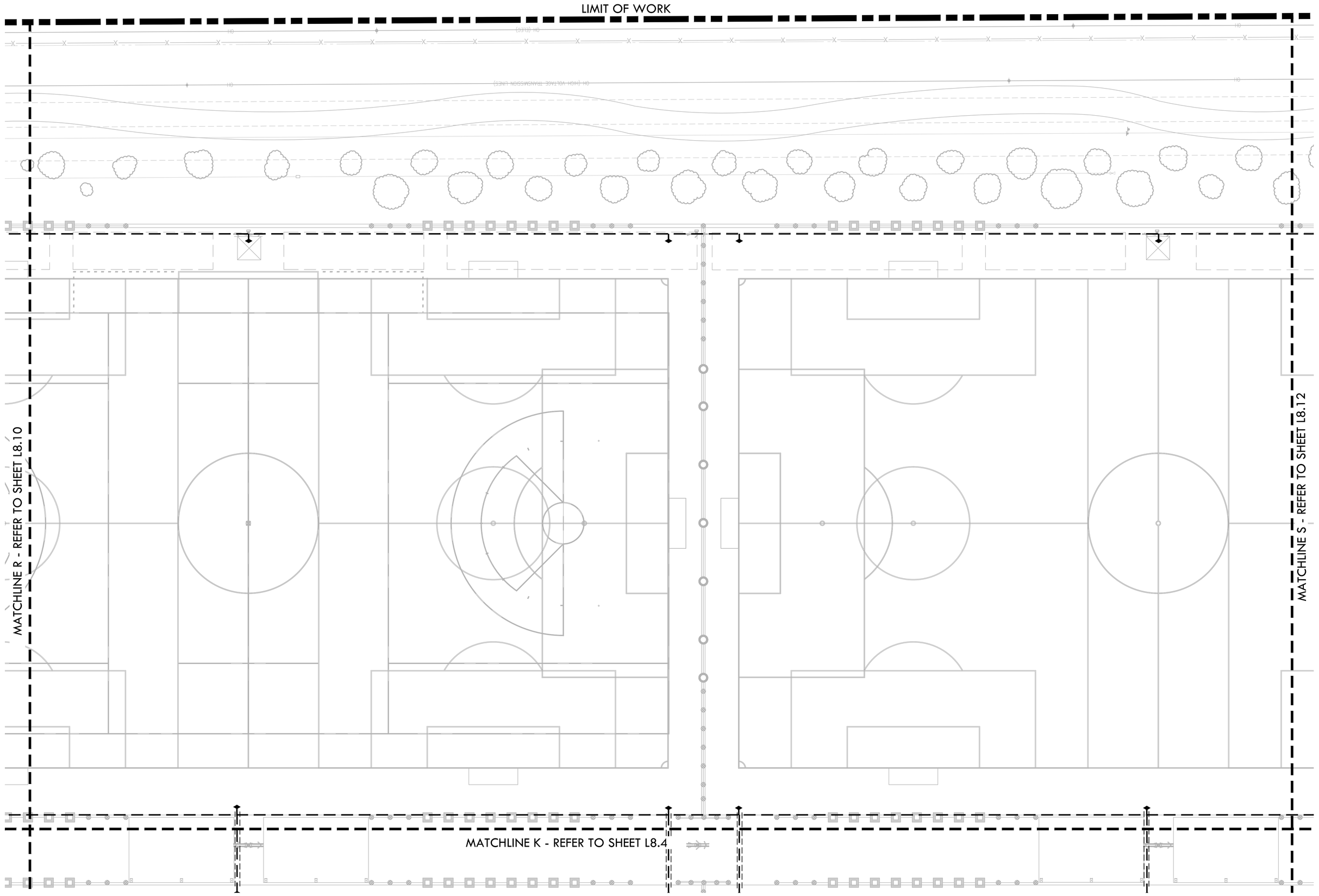
DRAWING NAME: Y:\Projects-FY\2021\2103800 - Roseville 6 Soccer Complex\CAD_IRR-Rdc.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station49



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◔◓◕◒	RAINBIRD	-	-	-	30	
◔◓◕◒	RAINBIRD	-	-	-	30	
⊗	RAINBIRD	-	-	-	50	
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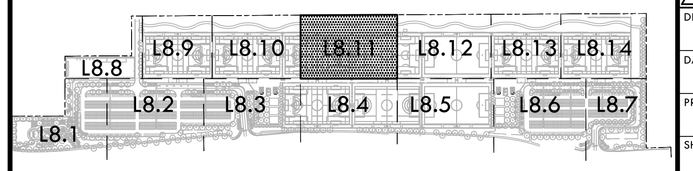
KEY MAP



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DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
PROJ. NO.: 2103800
SHEET NO.: L8.11

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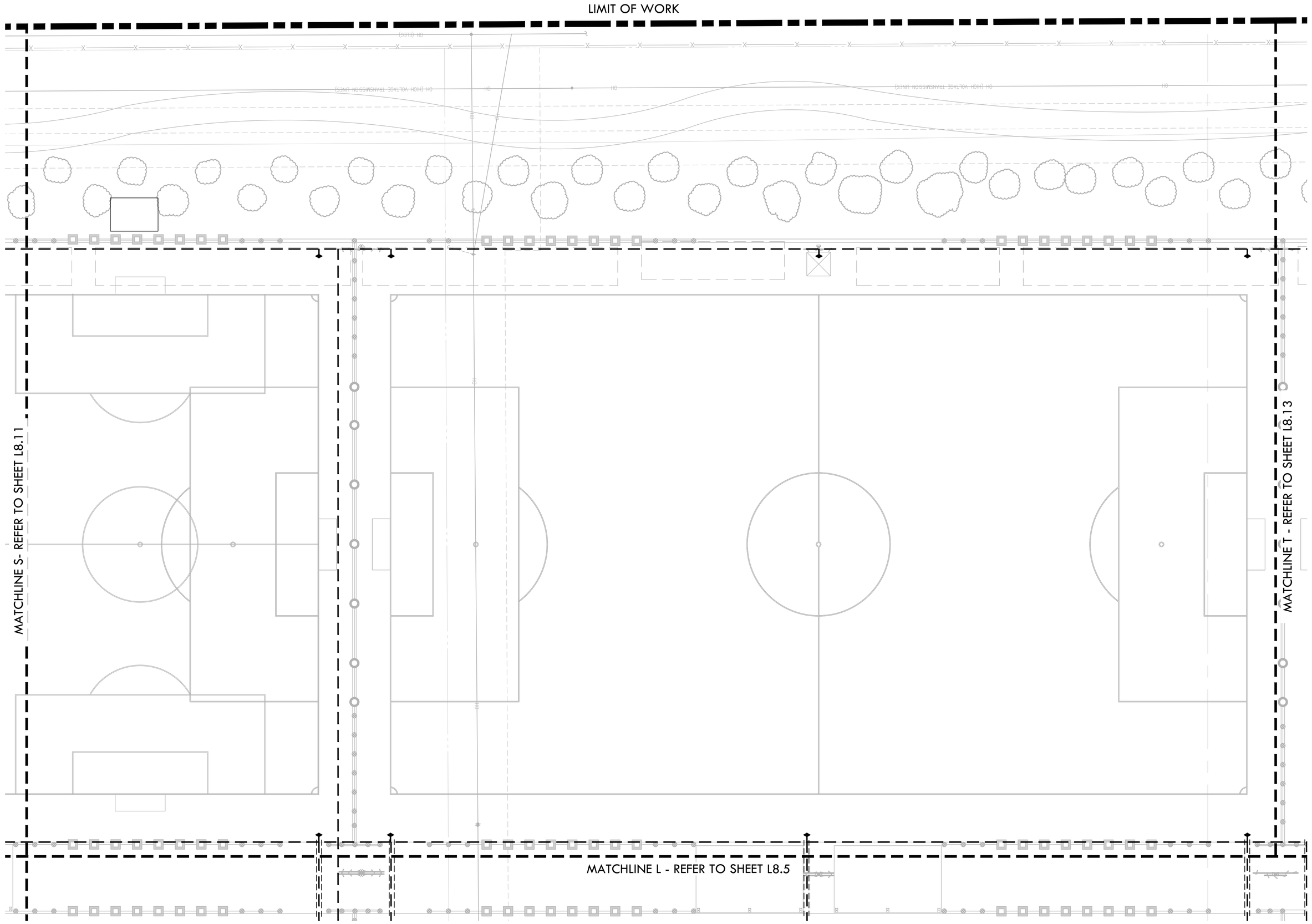
PLOT DATE: 04-28-22 PLOTTED BY: station49



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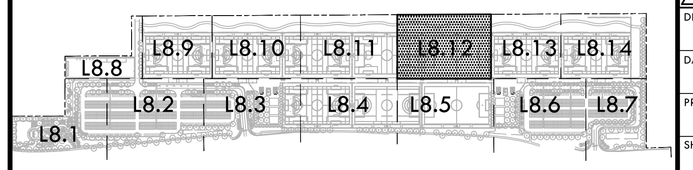

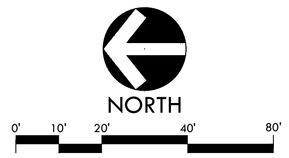

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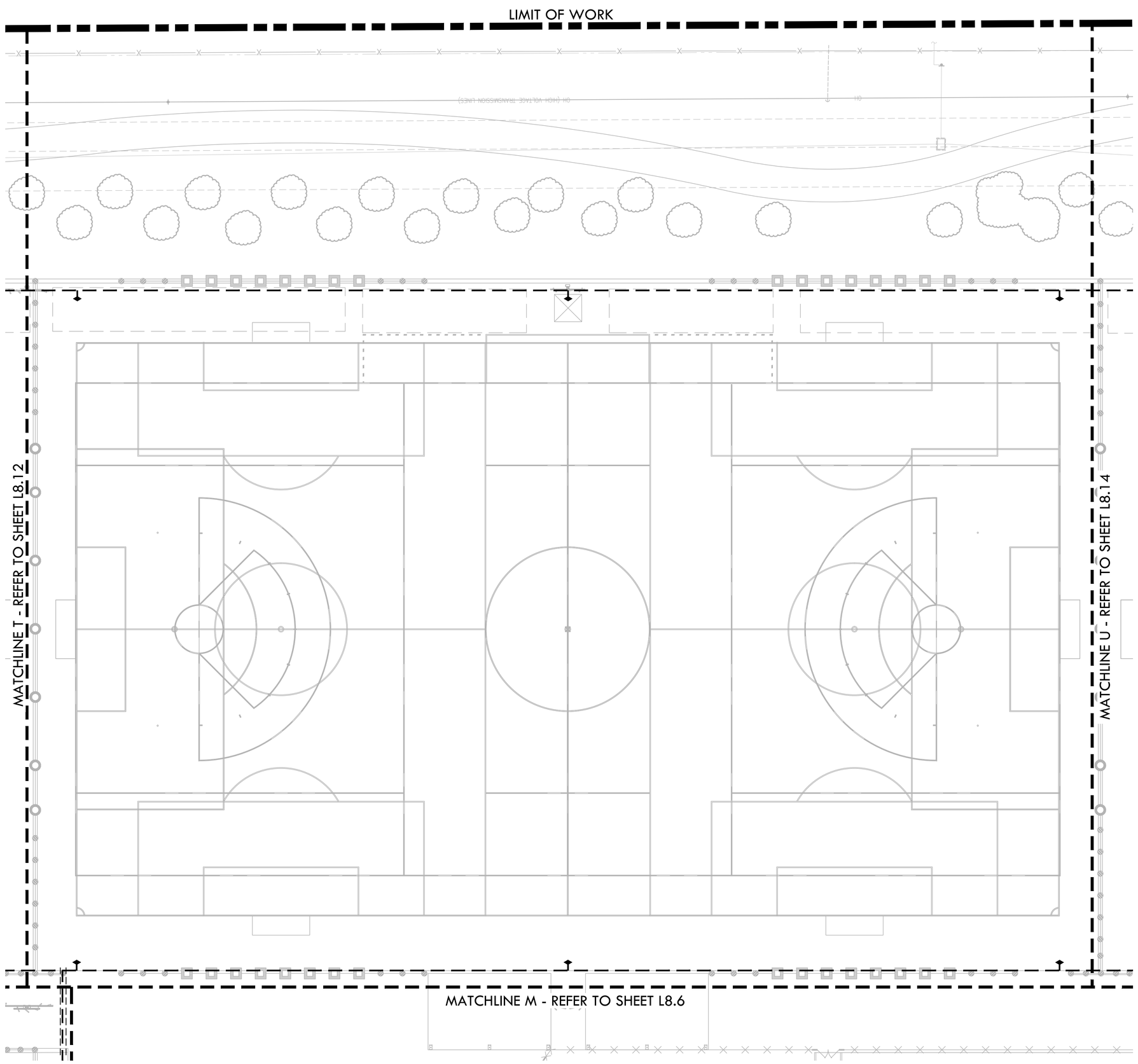
PLOT DATE: 04-28-22 PLOTTED BY: station49



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4. CONTRACTOR SHALL PROGRAM CONTROLLER TO ENSURE PROPER IRRIGATION. BASED ON PLANT TYPE, EXPOSURE AND SEASON.
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6. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY.
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8. ALL IRRIGATION COMPONENTS SHALL HAVE RECYCLED WATER IDENTIFIERS EXCEPT IRRIGATION BOXES. REFER TO SPECIFICATIONS.

IRRIGATION LEGEND

SYM.	MANUFAC.	MODEL NO./ DESCRIPTION	RAD.	GPM	PSI	DET REF
○	RAINBIRD	ROTOR 8000 OR 5500	-	-	30	
•	RAINBIRD	SPRAY HEADS R-VAN NOZZLES 1800 P45	-	-	30	
▲	RAINBIRD	BUBBLERS R-VAN SIDE STRIP NOZZLES 1800 PRS SERIES	-	-	30	
△	RAINBIRD	-	-	-	30	
◔◓◕◒	RAINBIRD	-	-	-	30	
◔◓◕◒	RAINBIRD	-	-	-	30	
◔◓◕◒	RAINBIRD	-	-	-	30	
⊗	RAINBIRD	-	-	-	50	
⊖	RAINBIRD	-	-	-	50	
⬡	RAINBIRD	-	-	-	50	
⊕	RAINBIRD	-	-	-	50	
◓	RAINBIRD	PESB-PRS-D-P SERIES PRESSURE REGULATED PLASTIC REMOTE CONTROL VALVE. SIZE AS SHOWN, INSTALL WITHIN VALVE BOX AND 'RCV' HEAT BRANDED ON COVER. INSTALL WITH ISOLATION VALVE PER CITY STANDARD DETAIL				
⋈	NIBCO	NIBCO GATE VALVES SHALL BE LINE SIZED PER PLANS: VALVES 3" AND SMALLER SHALL BE NIBCO T-113-LF. VALVES 4" AND LARGER SHALL BE NIBCO F-619-LF FLANGED VALVE WITH SQUARE OPERATING UNIT.				
♦	RAINBIRD	QUICK COUPLER: RAINBIRD 44-NP: 1" NON-POTABLE, PURPLE LOCKING COVER, 2-PIECE BODY WITH 44-KEY AND SH-1 HOSE SWIVEL				
M		CONTRACTOR SHALL PURCHASE 4" RECYCLED WATER METER, SINGLE CHECK BACKFLOW DEVICE AND RESILIENT SEAT GATE VALVE THROUGH THE CITY AND INSTALL IN APPROXIMATE LOCATION AS SHOWN ON THE PLANS. INSTALL PER CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT STANDARDS AND DETAILS, LATEST EDITION.				
F		AMIAD MANUAL STEEL FILTER PER CITY OF ROSEVILLE STANDARDS, MATCH LINE SIZE OF RECYCLED WATER METER.				
FS		CALSENSE MODEL FM-2B WITH MINIMUM FLOW READING OF 11 GPM AND MAXIMUM FLOW READING OF 166 GPM				
MV		3" SUPERIOR MODEL 3300-RW, ELECTRIC GLOBE VALVE CONSTRUCTED OF BRASS. REFER TO STANDARD SPECIFICATIONS, VALVE SHALL BE INSTALLED IN A 'JUMBO' SIZED VALVE BOX WITH LOCKING COVER AND 'MV' HEAT BRANDED ON COVER				
RV		6" CAL-VAL MODEL 690-01 DI BODY, SS TRIM AND PILOT VALVE RATED FOR 15-75 PSI				
BP		CUSTOM PUMP AND POWER. MODEL:				
A		3" IRRIGATION CONTROLLER				
B		1.3" IRRIGATION CONTROLLER				
— —		MAINLINE - 2-1/2" AND SMALLER: SCHEDULE 40 PURPLE PVC PIPE WITH SOLVENT-WELD FITTINGS AT 24" DEPTH. MAINLINE 3" AND LARGER: CLASS 200 PURPLE PVC PIPE RUBBER GASKETED PIPE AT 24" DEPTH. MAINLINE SHOWN IN HARDSCAPE FOR PLAN CLARITY. CONTRACTOR SHALL INSTALL MAIN LINE IN ADJACENT PLANTER AREA.				
— · —		MAINLINE FOR POTABLE COUPLERS: 2" SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS WITH 24" COVER				
———		LATERAL LINE - SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS, WITH 18" COVER, SIZE AS SHOWN. SEE NOTE NO. 10.				
- - - -		IRRIGATION SLEEVE - PIPE AT PAVEMENTS (SLEEVES) SHALL BE SCHEDULE 40 PVC. SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.				
.....		1" ELECTRICAL CONDUIT FOR FLOW SENSOR WIRING - SCH. 80 PVC AT 30" DEPTH WITH DETECTION LOCATOR TAPE.				
1 / 1" / 11.2		CONTROLLER STATION NUMBER APPROX. GPM FLOW THROUGH VALVE CONTROL VALVE SIZE				
P.O.C.		POINT OF CONNECTION -CONTRACTOR TO FIELD LOCATE EXISTING 6" RECYCLED WATER LINE WITH BOX AND BLOW-OFF VALVE INSIDE. TAP INTO RECYCLED WATER LINE AND EXTEND MAINLINE TO PROJECT SITE AS SHOWN.				
1		CONTRACTOR TO TIE MAIN LINE FOR QUICK COUPLERS TO DOMESTIC WATER LINE. INSTALL GATE VALVE AND BACKFLOW PREVENTER.				
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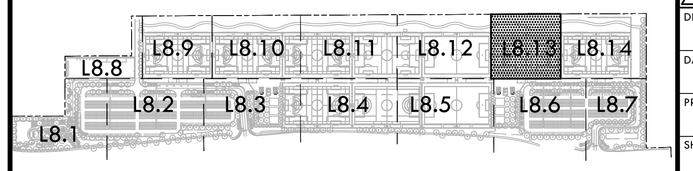
KEY MAP



NORTH

0' 10' 20' 40' 80'

VERDE DESIGN
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fax: 916.415.6525
www.VerdeDesignInc.com

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CONSULTANT

SHEET TITLE
IRRIGATION PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE
1		
2		
3		
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6		

DRAWN BY | CHECKED BY
DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
PROJ. NO.: 2103800
SHEET NO.: L8.13

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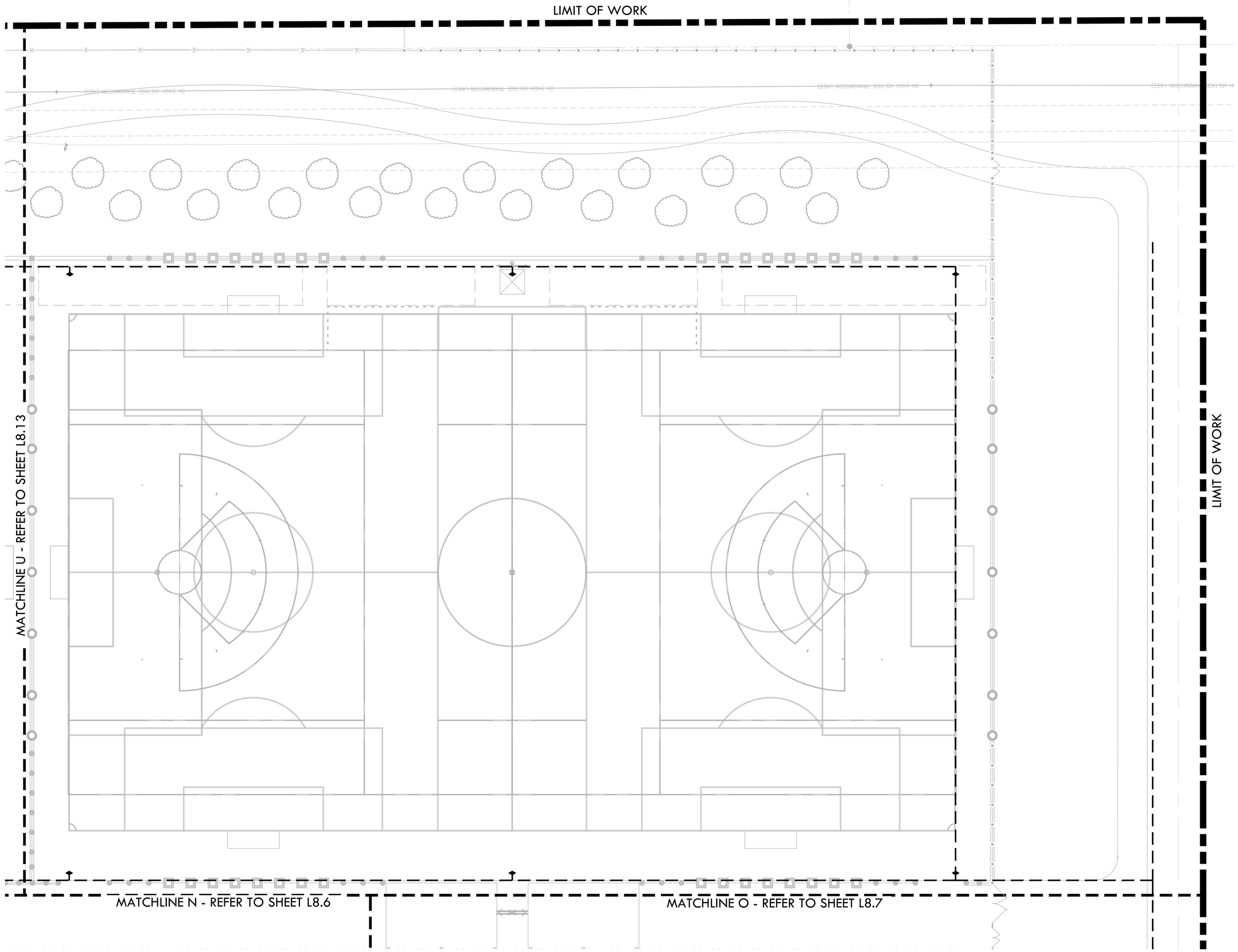
PLOT DATE: 04-28-22 PLOTTED BY: station49



IRRIGATION NOTES

1. POC 1 IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF (90) GPM AND POC 2 IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF (27) GPM WITH A MINIMUM (60) STATIC P.S.I. AT BOTH POINTS OF CONNECTION. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK. CONTACT OWNER IMMEDIATELY SHOULD DISCREPANCY ARISE AND RE-DIRECT WORK TO AVOID DELAY.
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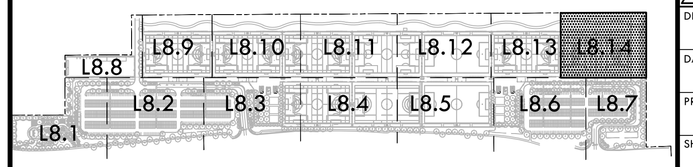

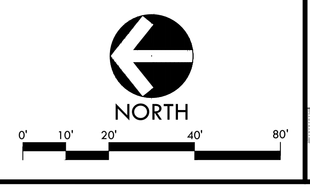

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

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CONSULTANT

SHEET TITLE
IRRIGATION PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY
DATE ISSUED: 04/29/2022 | SCALE: 1"=20'-0"
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PLOT DATE: 04-28-22 PLOTTED BY: station49

PRESSURE LOSS CALCULATIONS

TO BE REFINED

WATER EFFICIENT LANDSCAPE CALCULATIONS

TO BE REFINED

CITY OF ROSEVILLE RECYCLED WATER SPECIAL ON-SITE IRRIGATION NOTES

1. THE INSTALLATION OF THE RECYCLED WATER SYSTEM SHALL CONFORM TO THE REGULATIONS FOR THE CONSTRUCTION OF RECYCLED WATER SYSTEMS WITHIN THE CITY OF ROSEVILLE AND THE ACCOMPANYING PLANS AND SPECIFICATIONS.

2. ALL ON-SITE RECYCLED AND POTABLE WATER PIPING INSTALLED ON THIS PROJECT SHALL BE IDENTIFIED IN ACCORDANCE WITH THE CITY OF ROSEVILLE CONSTRUCTION STANDARDS FOR RECYCLED WATER INFRASTRUCTURE AND THE IRRIGATION SPECIFICATIONS.

3. CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT SHALL BE NOTIFIED TWO DAYS PRIOR TO THE START OF CONSTRUCTION AT (916) 774-5750 AND EACH WORKDAY THEREAFTER UNTIL COMPLETION OF PROJECT FOR COMMERCIAL IRRIGATION SYSTEMS. CITY OF ROSEVILLE PARKS DEPARTMENT SHALL BE NOTIFIED TWO DAYS PRIOR TO THE START OF CONSTRUCTION AT (916) 746-1758 FOR LANDSCAPE CORRIDORS AND PARKS. A PRECONSTRUCTION MATERIALS INSPECTION MUST BE ARRANGED PRIOR TO THE START OF CONSTRUCTION.

4. NO FACILITY IS TO BE BACKFILLED UNTIL INSPECTED BY THE CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT AND/OR PARKS DEPARTMENT INSPECTOR.

5. ALL RECYCLED WATER INFRASTRUCTURE, BOTH ON-SITE AND OFF-SITE SHALL BE INSPECTED BY CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES AND/OR PARKS DEPARTMENT. FOR INSPECTION OF RECYCLED WATER SYSTEM CONTACT ENVIRONMENTAL UTILITIES AT 774-5750 FORTY-EIGHT (48) HOURS IN ADVANCE. POINTS OF INSPECTION ARE:

   5.1. PRE-CONSTRUCTION MATERIALS INSPECTION.

   5.2. IRRIGATION SYSTEM INSTALLATION BEFORE LINES ARE COVERED.

   5.3. PRESSURE TESTING.

   5.4. SYSTEM CROSS CONNECTION CONTROL TEST.

   5.5. SYSTEM COVERAGE TEST.

6. ALL RECYCLED WATER PIPING SHALL BE PURPLE COLORED PVC UNLESS OTHERWISE SPECIFIED. WHERE PURPLE PVC IS NOT USED, PIPE SHALL BE IDENTIFIED (MARKED) IN ACCORDANCE WITH THE CITY OF ROSEVILLE CONSTRUCTION STANDARDS.

7. MARKING ON THE PURPLE COLORED PVC PIPE SHALL INCLUDE THE FOLLOWING:

   7.1. "CAUTION: RECYCLED WATER- DO NOT DRINK". NOMINAL PIPE SIZE. PVC—1120. PRESSURE RATING IN POUNDS PER SQUARE INCH AT 73 DEGREES. ASTM DESIGNATIONS SUCH AS 1785, 2241, 1672, 3139. PRINTING SHALL BE PLACED CONTINUOUSLY ON TWO SIDES OF THE PIPE.

8. ALL RECYCLED WATER SPRINKLER CONTROL VALVES, VALVE RISERS, SPRINKLER RISERS, AND SWING JOINTS SHALL BE TAGGED WITH IDENTIFICATION TAGS OR ADHESIVE LABELS.

   8.1. TAGS SHALL BE WEATHERPROOF PLASTIC, 3" X 4", PURPLE COLOR WITH THE WORDS "WARNING: RECYCLED WATER- DO NOT DRINK" IMPRINTED ON ONE SIDE, AND "AVISA: AGUA IMPURA- NO TOMAR" ON THE OTHER SIDE. IMPRINTING SHALL BE PERMANENT AND BLACK IN COLOR. USE TAGS AS MANUFACTURED BY T. CHRISTY ENTERPRISES OR APPROVED EQUAL

   8.2. ONE TAG SHALL BE ATTACHED TO EACH VALVE AS FOLLOWS:
   8.2.1. ATTACH TO VALVE STEM DIRECTLY OR WITH PLASTIC TIE-WRAP, OR
   8.2.2. ATTACH TO SOLENOID WIRE DIRECTLY OR WITH PLASTIC TIE-WRAP.

   8.3. RECYCLED WATER WARNING LABELS OR STICKERS THAT ARE CONSISTENT WITH CITY OF ROSEVILLE CONSTRUCTION STANDARDS FOR RECYCLED WATER INFRASTRUCTURE AND THE IRRIGATION SPECIFICATIONS MUST BE ATTACHED TO ALL PIPING NOT IN COMPLIANCE.

   8.4. ALL SPRINKLER HEADS MUST BE DESIGNED FOR RECYCLED WATER USAGE, WITH PURPLE RECYCLED WATER WARNING CAPS.

   8.5. SPRINKLER RISERS AND SWING JOINTS SHALL BE IDENTIFIED WITH PURPLE ADHESIVE 3" X 3" LABELS. EACH LABEL SHALL STATE "RECYCLED WATER – DO NOT DRINK" IN ENGLISH AND SPANISH.

9. ALL RECYCLED WATER CONTROL VALVE BOXES SHALL BE PURPLE AND HAVE A WARNING LABEL PERMANENTLY MOLDED INTO OR AFFIXED ONTO THE LID WITH RIVETS, BOLTS, ETC. WARNING LABELS SHALL BE CONSTRUCTED OF A PURPLE WEATHERPROOF MATERIAL WITH THE WARNING PERMANENTLY STAMPED OR MOLDED INTO THE LABEL. THE WARNING SHALL CONTAIN THE FOLLOWING INFORMATION:

   9.1. "NON-POTABLE" OR "RECYCLED WATER".

   9.2. "DO NOT DRINK" IN ENGLISH AND SPANISH.

10. RECYCLED WATER QUICK COUPLING VALVES SHALL HAVE A PURPLE RUBBER OR VINYL COVER. THE COVER SHALL BE OF A LOCKING TYPE AND HAVE A WARNING PERMANENTLY STAMPED OR MOLDED AS FOLLOWS:

    10.1. "RECYCLED WATER- DO NOT DRINK" IN ENGLISH AND SPANISH.

11. PLASTIC WARNING TAPE SHALL BE USED ON ALL POTABLE WATER PIPING, POTABLE WATER WARNING TAPE SHALL BE A MINIMUM OF 3 INCHES WIDE AND SHALL RUN CONTINUOUSLY FOR THE ENTIRE LENGTH OF EACH LINE. THE TAPE SHALL BE ATTACHED TO THE TOP OF THE PIPE WITH NYLON TIE-WRAP BANDED AROUND THE WARNING TAPE AND THE PIPE EVERY FIVE FEET ON CENTER. WARNING TAPE FOR THE POTABLE WATER PIPING SHALL BE BLUE IN COLOR WITH WORDS "CAUTION: POTABLE WATER LINE BURIED BELOW" IMPRINTED IN MINIMUM 1-INCH HIGH LETTERS, BLACK IN COLOR. IMPRINTING SHALL BE CONTINUOUS AND PERMANENT.

12. ALL PRESSURE MAIN LINE PIPING FROM THE RECYCLED WATER SYSTEM SHALL BE INSTALLED TO MAINTAIN 10 FEET MINIMUM HORIZONTAL SEPARATION FROM ALL POTABLE WATER PIPING. WHERE RECYCLED AND POTABLE WATER PRESSURE MAIN LINE PIPING CROSS, THE RECYCLED WATER PIPING SHALL BE INSTALLED 12" BELOW THE POTABLE WATER PIPING OD TO OD. WHERE THE RECYCLED WATER PRESSURE MAIN LINE MUST PASS ABOVE POTABLE WATER PIPING, THE RECYCLED WATER PIPING SHALL INSTALLED IN A CLASS 200 PURPLE COLORED PVC SLEEVE WHICH EXTENDS A MINIMUM OF FIVE FEET ON EITHER SIDE OF THE POTABLE WATER PIPING. A 12" VERTICAL SEPARATION OD TO OD MUST BE MAINTAINED. CONVENTIONAL (WHITE) PVC PIPE MAY BE USED FOR SLEEVING MATERIAL IF IT IS TAPED WITH THREE-INCH WIDE PURPLE WARNING TAPE, WHICH READS "RECYCLED WATER- DO NOT DRINK".

13. ALL PRESSURE MAIN LINE PIPING FROM THE RECYCLED WATER SYSTEM SHALL BE INSTALLED TO MAINTAIN A TEN FOOT MINIMUM HORIZONTAL SEPARATION FROM ALL SANITARY SEWER LINES. WHERE RECYCLED AND SEWER CROSS, THE RECYCLED WATER PIPING SHALL BE INSTALLED A MINIMUM OF ONE FOOT ABOVE SEWER.

14. FOR ON-SITE RECLAIMED WATER PIPING, THE MINIMUM DEPTH FROM FINISH GRADE TO TOP OF PIPE SHALL BE AS FOLLOWS:

    14.1. INTERMITTENT PRESSURE LINES (ALL SIZES)..... 18"

    14.2. CONSTANT PRESSURE LINES 2.5" AND SMALLER..... 24"

    14.3. CONSTANT PRESSURE LINES 3" AND LARGER..... 24"

15. PRESSURE AND CROSS CONNECTION TESTING FOR ON-SITE RECYCLED WATER SYSTEMS

    15.1. 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.

    15.2. THE SOURCE OF POTABLE WATER USED FOR TESTING MUST HAVE A METER AND AN APPROVED BACK FLOW PREVENTION DEVICE. THESE CAN BE OBTAINED THROUGH THE CITY OF ROSEVILLE.

    15.3. THE CONTRACTOR SHALL PROVIDE A MEANS TO PLUMB IN PRESSURE AND CROSS CONNECTION TESTING APPARATUS AT THE POINT OF HIGHEST ELEVATION, FOR BOTH POTABLE AND CONSTANT PRESSURE RECYCLED WATER SYSTEMS.

    15.4. THE CONSTANT PRESSURE RECYCLED WATER SYSTEM INCLUDING ALL APPURTENANCES SHALL BE TESTED AT 125 PSI AT HIGHEST POINT OF ELEVATION FOR 1 HOUR WITH NO DETECTABLE LEAKAGE.

    15.5. PRESSURE TESTING MUST BE SUCCESSFULLY COMPLETED PRIOR TO CROSS CONNECTION TESTING.

    15.6. THE RECYCLED WATER SYSTEM SHALL BE TESTED FOR CROSS-CONNECTION IN ACCORDANCE WITH UNIFORM PLUMBING CODE APPENDIX J PRIOR TO USE.

    15.7. FOR PROJECTS BEING PERFORMED IN PHASES, A CROSS CONNECTION TEST SHALL BE PERFORMED ON EACH PHASE INDEPENDENTLY, BEFORE IT IS PUT INTO SERVICE. THE POTABLE WATER SOURCE USED FOR TESTING EACH PHASE MUST BE INDEPENDENT OF OTHER PREVIOUSLY COMPLETED PHASES.

    15.8. AT THE TIME A CROSS CONNECTION TEST IS TO BE PERFORMED, CONSTRUCTION ON BOTH THE POTABLE AND THE RECYCLED WATER SYSTEMS BEING TESTED MUST BE COMPLETE, AND BOTH SYSTEMS FULLY OPERATIONAL AND FUNCTIONING AS DESIGNED.

    15.9. CROSS CONNECTION TESTING SHALL BE PERFORMED ON THE SYSTEM BY CITY FORCES WITH THE ASSISTANCE OF THE CONTRACTOR. THE TEST WILL BE COORDINATED THROUGH THE ENVIRONMENTAL UTILITIES OR PARKS DEPARTMENT INSPECTOR. FORTY-EIGHT (48) HOURS NOTICE IS REQUIRED BEFORE THE TEST. DEPENDING ON THE COMPLEXITY OF THE SITE, A PRELIMINARY FIELD MEET MAY ALSO BE REQUIRED.

16. COVERAGE TEST

    16.1. ADJUST SPRAY HEADS TO ELIMINATE OVERSPRAY ONTO NATIVE OAK AREAS AND INTO AREAS NOT UNDER THE CONTROL OF THE CUSTOMER. FOR EXAMPLE: POOL DECKS, PRIVATE PATIOS, STREETS AND SIDEWALKS.

17. METER INSTALLATION

    17.1. ONCE THE ON-SITE RECYCLED WATER SYSTEM HAS BEEN PROPERLY INSPECTED AND PASSED PRESSURE AND CROSS CONNECTION TESTING, A METER MAY BE INSTALLED. THE METER MUST BE PURCHASED FROM THE CITY OF ROSEVILLE AND INSTALLED BY CITY FORCES. COORDINATE METER PURCHASE AND INSTALLATION WITH THE ENVIRONMENTAL UTILITIES OR PARKS DEPARTMENT INSPECTOR.

18. NO CONNECTION SHALL BE MADE TO THE CITY'S EXISTING RECYCLED WATER SYSTEM UNTIL THE NEW FACILITIES HAVE BEEN SUCCESSFULLY PRESSURE AND CROSS CONNECTION TESTED. TAPS TO THE EXISTING RECYCLED SYSTEM WILL BE MADE BY CITY FORCES ONLY.

    18.1. FAILURE TO COMPLY WITH ANY OR ALL OF THE ABOVE GUIDELINES VIOLATES THE CITY OF ROSEVILLE DESIGN AND CONSTRUCTION STANDARDS FOR RECYCLED WATER INFRASTRUCTURE AND WILL RESULT IN TERMINATION OF SERVICE UNTIL THE APPROPRIATE CORRECTIVE STEPS HAVE BEEN TAKEN.

IRRIGATION AUDIT, SURVEY AND IRRIGATION WATER USE ANALYSIS NOTES

1. 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.

2. IN LARGE PROJECTS OR PROJECTS WITH MULTIPLE LANDSCAPE INSTALLATIONS (I.E. PRODUCTION HOME DEVELOPMENTS) AN AUDITING RATE OF 1 IN 7 LOTS OR APPROXIMATELY 15% OF THE PROJECTS IRRIGATION VALVES SHALL SATISFY THIS REQUIREMENT.

3. FOR NEW CONSTRUCTION AND REHABILITATED LANDSCAPE PROJECTS INSTALLED AFTER DECEMBER 1, 2015, AS DESCRIBED IN SECTION 14.18.030.

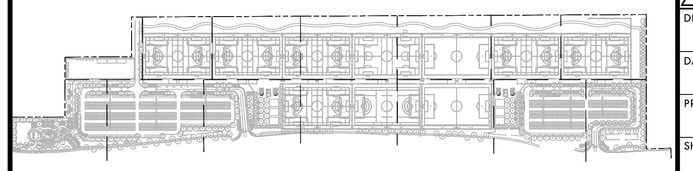
4. THE PROJECT APPLICANT SHALL SUBMIT AN IRRIGATION AUDIT REPORT WITH THE CERTIFICATE OF COMPLETION TO THE LOCAL AGENCY THAT MAY INCLUDE, BUT IS NOT LIMITED TO: INSPECTION, SYSTEM TUNE UP, SYSTEM TEST DISTRIBUTION UNIFORMITY, REPORTING OVERSPRAY OR RUN OFF THAT CAUSES OVERLAND FLOW, AND PREPARATION OF AN IRRIGATION SCHEDULE, INCLUDING CONFIGURING IRRIGATION CONTROLLERS WITH APPLICATION RATE, SOIL TYPES, PLANT FACTORS, SLOPE, EXPOSURE AND ANY OTHER FACTORS NECESSARY FOR ACCURATE PROGRAMING; (ENVIRONMENTAL UTILITIES-WELO)

TO BE REFINED

DETAILS

A IRRIGATION EQUIPMENT LAYOUT NTS

KEY MAP



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LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

CONSULTANT

SHEET TITLE
IRRIGAITON SUPPLEMENTAL INFORMATION

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE
1		
2		
3		
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5		
6		

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SHEET NO.	
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IRRIGATION SCHEDULE

TO BE REFINED

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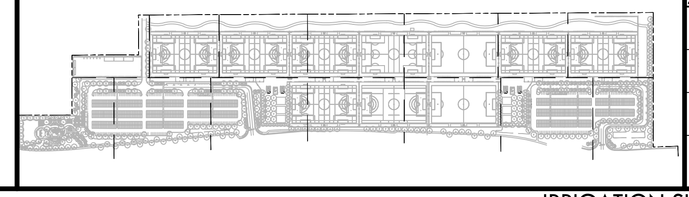
KEY MAP



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PLOT DATE: 04-28-22 PLOTTED BY: station49

TREES

CD



CEDRUS DEODORA
DEODOR CEDAR

GT



GLEDITSIA TRIACANTHOS 'SHADEMASTER'
SHADEMASTER THORNLESS HONEYLOCUST

LM



LAGERSTROMERIA MUSKOGEE
CRAPE MYRTLE

LT



LAGERSTROMERIA TUSKEGEE
CRAPE MYRTLE

LN



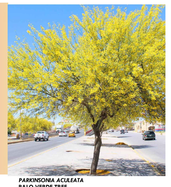
LAURUS NOBILIS
SWEET BAY LAUREL

MS



MAGNOLIA X SOULANGEANA 'ALEXANDRINA'
ALEXANDER MAGNOLIA

PA



PARKINSONIA ACULEATA
PALO VERDE TREE

PC



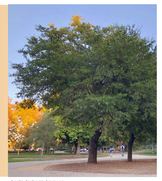
PISTACIA CHINESIS
CHINESE PISTACHE

QD



QUERCUS DOUGLASII
BLUE OAK

QV



QUERCUS VIRGINIANA
SOUTHERN LIVE OAK

UD



ULMUS DAVIDIANA VAR. JAPONICA 'MORTON'
ACCOLADE ELM

ZS



ZELKOVA SERRATA 'VILLAGE GREEN'
VILLAGE GREEN ZELKOVA

LARGE PLANTING (OVER 5' TALL)



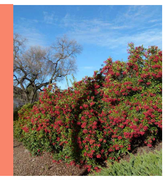
DODONAEA VISCOSA 'PURPUREA'
PURPLE-LEAFED HOPBUSH



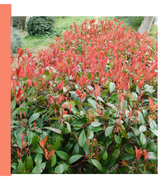
FORSYTHIA X INTERMEDIA 'KOLGOLD'
GOLD FORSYTHIA



GREVILLEA X 'NOELLII'
NOELL GREVILLEA



HETEROMELES ARBUTIFOLIA
TOYON



PHOTINIA FRASERI
PHOTINIA



XYLOSMA CONGESTUM 'COMPACTA'
COMPACT SHINY XYLOSMA

MEDIUM PLANTING (2'-5' TALL)



ABELIA X GRANDIFOLIA 'ED GOUCHER'
ED GOUCHER ABELIA



BERBERIS THUNBERGII 'ATROPURPUREA'
PURPLE JAPANESE BARBERRY



CALLISTEMON VIMINALIS 'LITTLE JOHNS'
LITTLE JOHN'S BOTTLEBRUSH



CISTUS PURPUREUS
ORCHID ROCKROSE



HEMEROCALLIS 'PRINCE OF VENICE'
EVERGREEN DAYLILY



LOMANDRA 'BREEZE'
DWARF MAT RUSH



MUHLENBERGIA CAPILLARIS
PINK MUHLY GRASS



MUHLENBERGIA RIGENS
DEER GRASS



SPIREA JAPONICA 'GOLDMOUND'
GOLDMOUND SPIREA

LOW PLANTING (UNDER 2' TALL)



ACACIA REDOLENS 'LOW BOY'
PROSTRATE ACACIA



ARCTOSTAPHYLOS 'EMERALD CARPET'
DWARF MANZANITA



CAREX TUMULICOLA
BERKELEY SEDGE



CISTUS SALVIIFOLIUM 'PROSTATUS'
SAGELEAF ROCKROSE



DIANELLA REVOLTA 'LITTLE REV'
LITTLE REV FLAX LILY



ERIGERON KARVINSKIANUS
SANTA BARBARA DAISY



MYOPORUM PARVIFOLIUM 'PUTAH CREEK'
MYOPORUM



ROSA X 'NOATRAUM'
PINK CARPET ROSE

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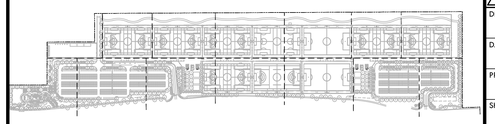
KEY MAP



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1843 Iron Point Rd. Suite 140
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tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
PLANTING PLAN IMAGES

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

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PROJ. NO. 2103800
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PLOT DATE: 06-23-22 PLOTTED BY: station46



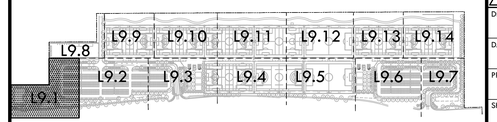
PLANTING NOTES

1. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL PLANT MATERIAL FROM TIME OF DELIVERY TO TIME OF FINAL ACCEPTANCE. OWNER SHALL NOT BE RESPONSIBLE FOR LOSSES DUE TO VANDALISM, THEFT OR SEVERE WEATHER.
2. CONTRACTOR SHALL PLACE PLANT MATERIALS SO THEY DO NOT INTERFERE WITH IRRIGATION SYSTEM OR INHIBIT REQUIRED COVERAGE. PLANT LOCATIONS MAY BE ADJUSTED AS LONG AS DESIGN INTENT IS NOT COMPROMISED. CONTRACTOR SHALL SET OUT PLANT MATERIAL AS PER PLAN AND RECEIVE ACCEPTANCE FROM OWNER'S REPRESENTATIVE WITH RESPECT TO PLANT HEALTH AND LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL GIVE MINIMUM 2 WORKING DAYS NOTICE FOR OBSERVATION AND SHALL HAVE ALL PLANT MATERIAL IN SPECIFIED LOCATIONS FOR REVIEW AT ONE TIME. CONTRACTOR SHALL REPLACE ANY MATERIAL AS REQUESTED BY OWNER'S REPRESENTATIVE.
3. ALL NON-TURF PLANTING AREAS SHALL RECEIVE A 3" LAYER OF BARK MULCH TOP DRESS (UNLESS NOTED OTHERWISE). REFER TO SPECIFICATIONS.
4. WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.
5. ALL SHRUB AND TREE AREA SHALL RECEIVE A WEED FABRIC LAYER. INSTALL WITH STAPLES, 3" OVERLAP AND COVER WITH MULCH.
6. ALL TURF, MULCH AND PLANTERS TO RECEIVE SOIL AMENDMENTS AND SOIL PREPARATION PER SPECIFICATIONS UNLESS OTHERWISE NOTED.
7. CONTRACTOR SHALL PROVIDE JUTE NETTING IN THE ENTIRE PLANTING AREAS. STAKE JUTE NETTING 36" ON CENTER.

PLANTING LEGEND

SYM.	QTY.	SIZE	BOTANICAL/COMMON NAME	SPACING	WATER USE REQUIREMENTS PER WUCOLS REGION 2 - CENTRAL VALLEY	DET REF
TREES						
	-	15 GAL	CEDRUS DEODORA DEODOR CEDAR	PER PLAN	LOW	
	-	15 GAL	GLEDITSIA TRIACANTHOS 'SHADEMASTER' SHADEMASTER THORNLESS HONEYLOCUST	P PLAN	LOW	
	-	15 GAL	LAGERSTROEMIA INDICA 'MUSKOGEE' PINK CRAPE MYRTLE	PER PLAN	LOW	
	-	15 GAL	LAGERSTROEMIA INDICA 'TUSKEGEE' PINK CRAPE MYRTLE	PER PLAN	LOW	
	-	15 GAL	LAURUS NOBILIS SWEET BAY LAUREL	PER PLAN	LOW	
	-	15 GAL	MAGNOLIA X S. 'ALEXANDRINA' ALEXANDER MAGNOLIA	PER PLAN	MEDIUM	
		15 GAL	PARKINSONIA ACULEATA PALO VERDE TREE	PER PLAN	VERY LOW	
	-	15 GAL	PISTACIA CHINENSIS CHINESE PISTACHE	PER PLAN	LOW	
	-	15 GAL	QUERCUS DOUGLASII BLUE OAK	PER PLAN	VERY LOW	
	-	15 GAL	QUERCUS VIRGINIANA SOUTHERN LIVE OAK	PER PLAN	MEDIUM	
	-	15 GAL	ULMUS DAVIDIANA JAPONICA 'MORTON' ACCOLADE ELM	PER PLAN	MEDIUM	
	-	15 GAL	ZELKOVA SERRATA 'VILLAGE GREEN' SAWLEAF ZELKOVA	PER PLAN	MEDIUM	
LARGE PLANTING						
	-	5 GAL	DODONAEA VISCOSA 'PURPUREA' PURPLE-LEAFED HOPBRUSH	8' O.C.	LOW	
	-	5 GAL	FORSYTHIA X INTERMEDIA 'KOLGOLD' GOLD FORSYTHIA	4' O.C.	LOW	
	-	5 GAL	GREVILLEA X 'NOELLII' NOELL GREVILLEA	4' O.C.	LOW	
	-	5 GAL	HETEROMELES ARBUTIFOLIA TOYON	8' O.C.	VERY LOW	
	-	5 GAL	PHOTINIA FRASERI PHOTINIA	6' O.C.	MEDIUM	
	-	5 GAL	XYLOSMA CONGESTUM 'COMPACTA' COMPACT SHINY XYLOSMA	6' O.C.	LOW	
MEDIUM PLANTING						
	-	5 GAL	ABELIA GRANDIFLORA 'ED GOUCHER' GLOSSY ABELIA	3' O.C.	MEDIUM	
	-	5 GAL	BERBERIS THUNBERGII 'ATROPURPUREA' PURPLE JAPANESE BARBERRY	3' O.C.	MEDIUM	
	-	5 GAL	CALLISTEMON VIMINALIS 'LITTLE JOHNS' LITTLE JOHN'S BOTTLEBRUSH	2' O.C.	LOW	
	-	5 GAL	CISTUS PURPUREUS ORCHID ROCKROSE	3' O.C.	LOW	
	-	1 GAL	HEMEROCALLIS 'PRINCE OF VENICE' EVERGREEN DAYLILY	3' O.C.	MEDIUM	
	-	1 GAL	LOMANDRA LONGIFOLIA 'BREEZE' DWARF MAT RUSH	3' O.C.	MEDIUM	
	-	1 GAL	MUHLENBERGIA RIGENS DEER GRASS	6' O.C.	LOW	
	-	1 GAL	MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS	2' O.C.	LOW	
	-	5 GAL	SPIRAEA JAPONICA 'GOLDFLAME' GOLDFLAME SPIRAEA	3' O.C.	MEDIUM	
LOW PLANTING						
	-	1 GAL	ACACIA REDOLENS 'LOW BOY' PROSTRATE ACACIA	10' O.C.	VERY LOW	
	-	1 GAL	ARCTOSTAPHYLOS 'EMERALD CARPET' DWARF MANZANITA	4' O.C.	MEDIUM	
	-	1 GAL	CAREX TUMULICOLA BERKLEY SEDGE	2' O.C.	LOW	
	-	1 GAL	CISTUS SALVIFOLIUS 'PROSTRATUS' SAGELEAF ROCKROSE	6' O.C.	LOW	
	-	1 GAL	DIANELLA REVOLUTA 'LITTLE REV' LITTLE REV FLAX LILY	2' O.C.	LOW	
	-	1 GAL	ERIGERON KARVINSKIANUS SANTA BARBARA DAISY	3' O.C.	LOW	
	-	1 GAL	MYOPORUM PARVIFOLIUM 'PUTAH CREEK' MYOPORUM	10' O.C.	LOW	
	-	1 GAL	ROSA X 'NOATRAUM' PINK CARPET ROSE	4' O.C.	MEDIUM	
MISC.						
			TALL FESCUE BLEND SOD - REFER TO SPECIFICATIONS	11,470 S.F.	HIGH	
			NATIVE BROADCAST SEED - REFER TO SPECIFICATIONS	223,749 S.F.	HIGH	
			3" DEP. MULCH UNDER SHRUBS AND TREES REFER TO SPECIFICATIONS	25,367 S.F.	N/A	

KEY MAP



NORTH

0' 10' 20' 40' 80'

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
PLANTING PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

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PLOT DATE: 06-24-22 PLOTTED BY: station46



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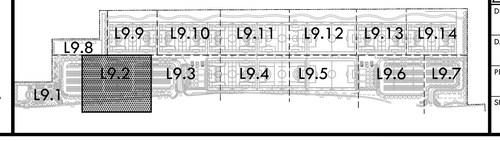
SYM.	QTY.	SIZE	BOTANICAL/COMMON NAME	SPACING	WATER USE REQUIREMENTS PER WUCOLS REGION 2 - CENTRAL VALLEY	DET REF
TREES						
	-	15 GAL	CEDRUS DEODORA DEODOR CEDAR	PER PLAN	LOW	
	-	15 GAL	GLEDITSIA TRIACANTHOS 'SHADEMASTER' SHADEMASTER THORNLESS HONEYLOCUST	P PLAN	LOW	
	-	15 GAL	LAGERSTROEMIA INDICA 'MUSKOGEE' PINK CRAPE MYRTLE	PER PLAN	LOW	
	-	15 GAL	LAGERSTROEMIA INDICA 'TUSKEGEE' PINK CRAPE MYRTLE	PER PLAN	LOW	
	-	15 GAL	LAURUS NOBILIS SWEET BAY LAUREL	PER PLAN	LOW	
	-	15 GAL	MAGNOLIA X S. 'ALEXANDRINA' ALEXANDER MAGNOLIA	PER PLAN	MEDIUM	
		15 GAL	PARKINSONIA ACULEATA PALO VERDE TREE	PER PLAN	VERY LOW	
	-	15 GAL	PISTACIA CHINENSIS CHINESE PISTACHE	PER PLAN	LOW	
	-	15 GAL	QUERCUS DOUGLASII BLUE OAK	PER PLAN	VERY LOW	
	-	15 GAL	QUERCUS VIRGINIANA SOUTHERN LIVE OAK	PER PLAN	MEDIUM	
	-	15 GAL	ULMUS DAVIDIANA JAPONICA 'MORTON' ACCOLADE ELM	PER PLAN	MEDIUM	
	-	15 GAL	ZELKOVA SERRATA 'VILLAGE GREEN' SAWLEAF ZELKOVA	PER PLAN	MEDIUM	
LARGE PLANTING						
	-	5 GAL	DODONAEA VISCOSA 'PURPUREA' PURPLE-LEAFED HOPBRUSH	8' O.C.	LOW	
	-	5 GAL	FORSYTHIA X INTERMEDIA 'KOLGOLD' GOLD FORSYTHIA	4' O.C.	LOW	
	-	5 GAL	GREVILLEA X 'NOELLII' NOELL GREVILLEA	4' O.C.	LOW	
	-	5 GAL	HETEROMELES ARBUTIFOLIA TOYON	8' O.C.	VERY LOW	
	-	5 GAL	PHOTINIA FRASERI PHOTINIA	6' O.C.	MEDIUM	
	-	5 GAL	XYLOSMA CONGESTUM 'COMPACTA' COMPACT SHINY XYLOSMA	6' O.C.	LOW	
MEDIUM PLANTING						
	-	5 GAL	ABELIA GRANDIFLORA 'ED GOUCHER' GLOSSY ABELIA	3' O.C.	MEDIUM	
	-	5 GAL	BERBERIS THUNBERGII 'ATROPURPUREA' PURPLE JAPANESE BARBERRY	3' O.C.	MEDIUM	
	-	5 GAL	CALLISTEMON VIMINALIS 'LITTLE JOHNS' LITTLE JOHN'S BOTTLEBRUSH	2' O.C.	LOW	
	-	5 GAL	CISTUS PURPUREUS ORCHID ROCKROSE	3' O.C.	LOW	
	-	1 GAL	HEMEROCALLIS 'PRINCE OF VENICE' EVERGREEN DAYLILY	3' O.C	MEDIUM	
	-	1 GAL	LOMANDRA LONGIFOLIA 'BREEZE' DWARF MAT RUSH	3' O.C.	MEDIUM	
	-	1 GAL	MUHLENBERGIA RIGENS DEER GRASS	6' O.C.	LOW	
	-	1 GAL	MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS	2' O.C.	LOW	
	-	5 GAL	SPIRAEA JAPONICA 'GOLDFLAME' GOLDFLAME SPIRAEA	3' O.C.	MEDIUM	
LOW PLANTING						
	-	1 GAL	ACACIA REDOLENS 'LOW BOY' PROSTRATE ACACIA	10' O.C.	VERY LOW	
	-	1 GAL	ARCTOSTAPHYLOS 'EMERALD CARPET' DWARF MANZANITA	4' O.C.	MEDIUM	
	-	1 GAL	CAREX TUMULICOLA BERKLEY SEDGE	2' O.C.	LOW	
	-	1 GAL	CISTUS SALVIFOLIUS 'PROSTRATUS' SAGELEAF ROCKROSE	6' O.C.	LOW	
	-	1 GAL	DIANELLA REVOLUTA 'LITTLE REV' LITTLE REV FLAX LILY	2' O.C.	LOW	
	-	1 GAL	ERIGERON KARVINSKIANUS SANTA BARBARA DAISY	3' O.C.	LOW	
	-	1 GAL	MYOPORUM PARVIFOLIUM 'PUTAH CREEK' MYOPORUM	10' O.C.	LOW	
	-	1 GAL	ROSA X 'NOATRAUM' PINK CARPET ROSE	4' O.C.	MEDIUM	
MISC.						
			TALL FESCUE BLEND SOD - REFER TO SPECIFICATIONS	11,470 S.F.	HIGH	
			NATIVE BROADCAST SEED - REFER TO SPECIFICATIONS	223,749 S.F.	HIGH	
			3" DEP. MULCH UNDER SHRUBS AND TREES REFER TO SPECIFICATIONS	25,367 S.F.	N/A	

KEY MAP



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MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
PLANTING PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY
DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"
PROJ. NO. 2103800
SHEET NO. L9.2

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PLANTING LEGEND

SYM.	QTY.	SIZE	BOTANICAL/COMMON NAME	SPACING	WATER USE REQUIREMENTS PER WUCOLS REGION 2 - CENTRAL VALLEY	DET REF
TREES						
	-	15 GAL	CEDRUS DEODORA DEODOR CEDAR	PER PLAN	LOW	
	-	15 GAL	GLEDITSIA TRIACANTHOS 'SHADEMASTER' SHADEMASTER THORNLESS HONEYLOCUST	P PLAN	LOW	
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	-	5 GAL	DODONAEA VISCOSA 'PURPUREA' PURPLE-LEAFED HOPBRUSH	8' O.C.	LOW	
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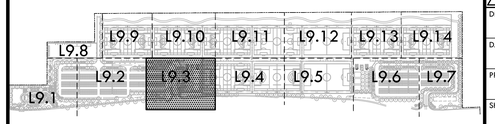

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0' 10' 20' 40' 80'

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PROJECT ADDRESS
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ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

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DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"

PROJ. NO. 2103800

SHEET NO. L9.3

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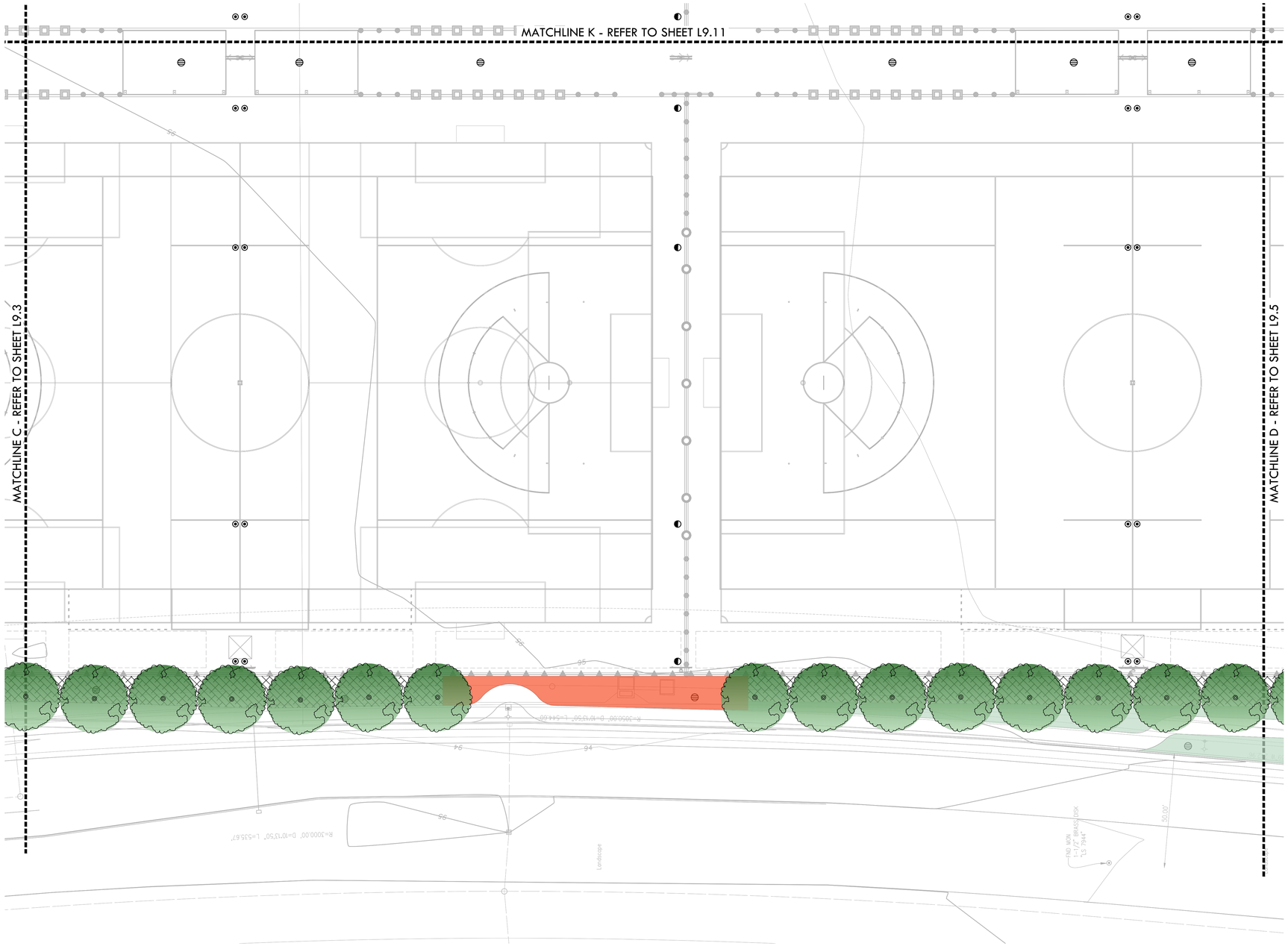
PLOT DATE: 06-23-22 PLOTTED BY: station46



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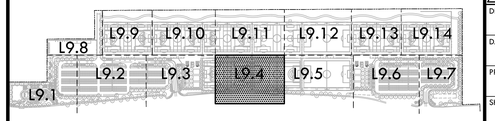

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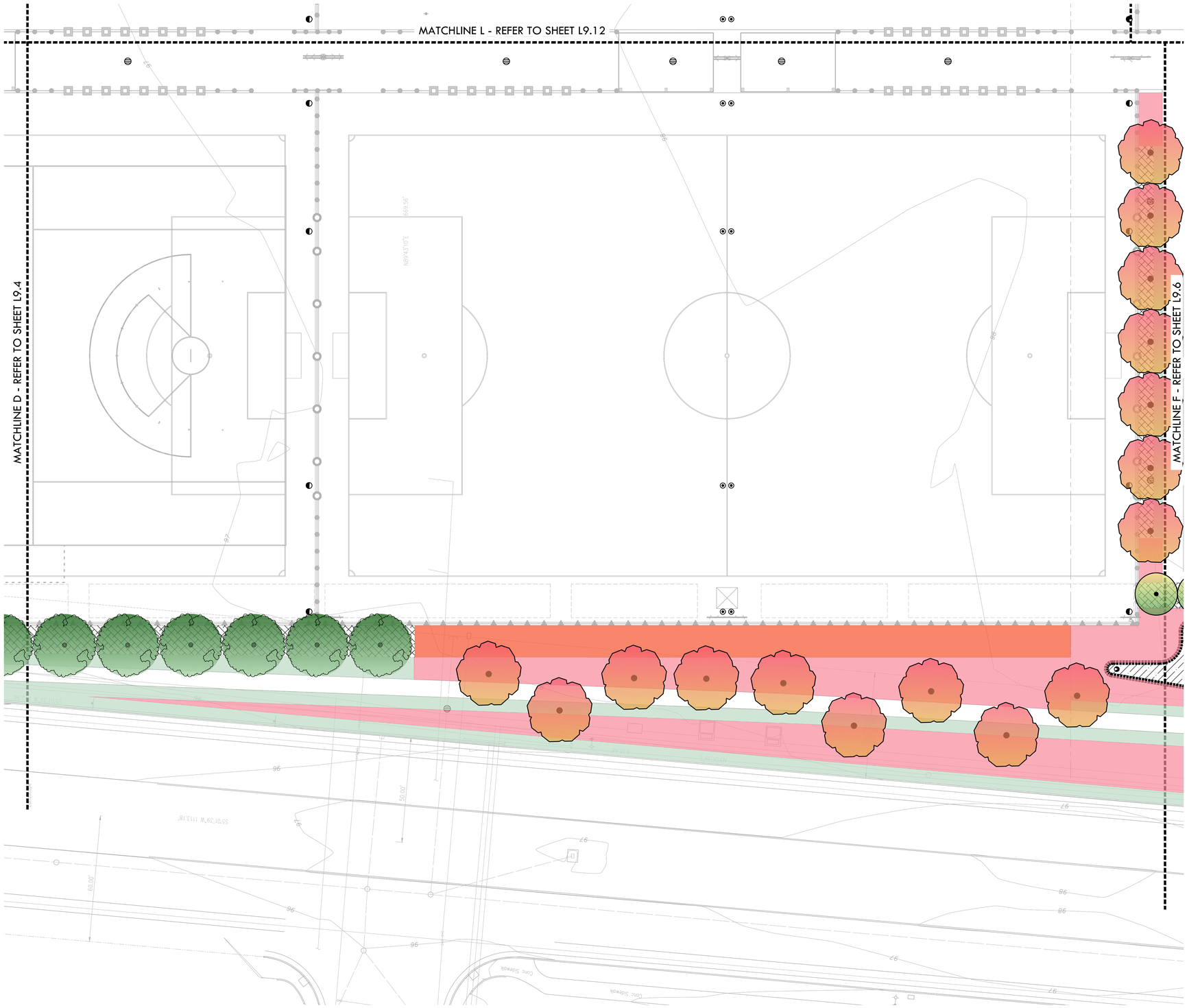

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SYM.	QTY.	SIZE	BOTANICAL/COMMON NAME	SPACING	WATER USE REQUIREMENTS PER WUCOLS REGION 2 - CENTRAL VALLEY	DET REF
TREES						
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	-	15 GAL	GLEDITSIA TRIACANTHOS 'SHADEMASTER' SHADEMASTER THORNLESS HONEYLOCUST	P PLAN	LOW	
	-	15 GAL	LAGERSTROEMIA INDICA 'MUSKOGEE' PINK CRAPE MYRTLE	PER PLAN	LOW	
	-	15 GAL	LAGERSTROEMIA INDICA 'TUSKEGEE' PINK CRAPE MYRTLE	PER PLAN	LOW	
	-	15 GAL	LAURUS NOBILIS SWEET BAY LAUREL	PER PLAN	LOW	
	-	15 GAL	MAGNOLIA X S. 'ALEXANDRINA' ALEXANDER MAGNOLIA	PER PLAN	MEDIUM	
		15 GAL	PARKINSONIA ACULEATA PALO VERDE TREE	PER PLAN	VERY LOW	
	-	15 GAL	PISTACIA CHINENSIS CHINESE PISTACHE	PER PLAN	LOW	
	-	15 GAL	QUERCUS DOUGLASII BLUE OAK	PER PLAN	VERY LOW	
	-	15 GAL	QUERCUS VIRGINIANA SOUTHERN LIVE OAK	PER PLAN	MEDIUM	
	-	15 GAL	ULMUS DAVIDIANA JAPONICA 'MORTON' ACCOLADE ELM	PER PLAN	MEDIUM	
	-	15 GAL	ZELKOVA SERRATA 'VILLAGE GREEN' SAWLEAF ZELKOVA	PER PLAN	MEDIUM	
LARGE PLANTING						
	-	5 GAL	DODONAEA VISCOSA 'PURPUREA' PURPLE-LEAFED HOPBRUSH	8' O.C.	LOW	
	-	5 GAL	FORSYTHIA X INTERMEDIA 'KOLGOLD' GOLD FORSYTHIA	4' O.C.	LOW	
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	-	5 GAL	ABELIA GRANDIFLORA 'ED GOUCHER' GLOSSY ABELIA	3' O.C.	MEDIUM	
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	-	5 GAL	CISTUS PURPUREUS ORCHID ROCKROSE	3' O.C.	LOW	
	-	1 GAL	HEMEROCALLIS 'PRINCE OF VENICE' EVERGREEN DAYLILY	3' O.C	MEDIUM	
	-	1 GAL	LOMANDRA LONGIFOLIA 'BREEZE' DWARF MAT RUSH	3' O.C.	MEDIUM	
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	-	5 GAL	SPIRAEA JAPONICA 'GOLDFLAME' GOLDFLAME SPIRAEA	3' O.C.	MEDIUM	
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	-	1 GAL	ACACIA REDOLENS 'LOW BOY' PROSTRATE ACACIA	10' O.C.	VERY LOW	
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MISC.						
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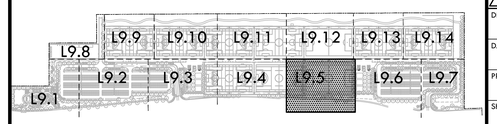

NORTH

0' 10' 20' 40' 80'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
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SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
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fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
PLANTING PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY

DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"

PROJ. NO. 2103800

SHEET NO. L9.5

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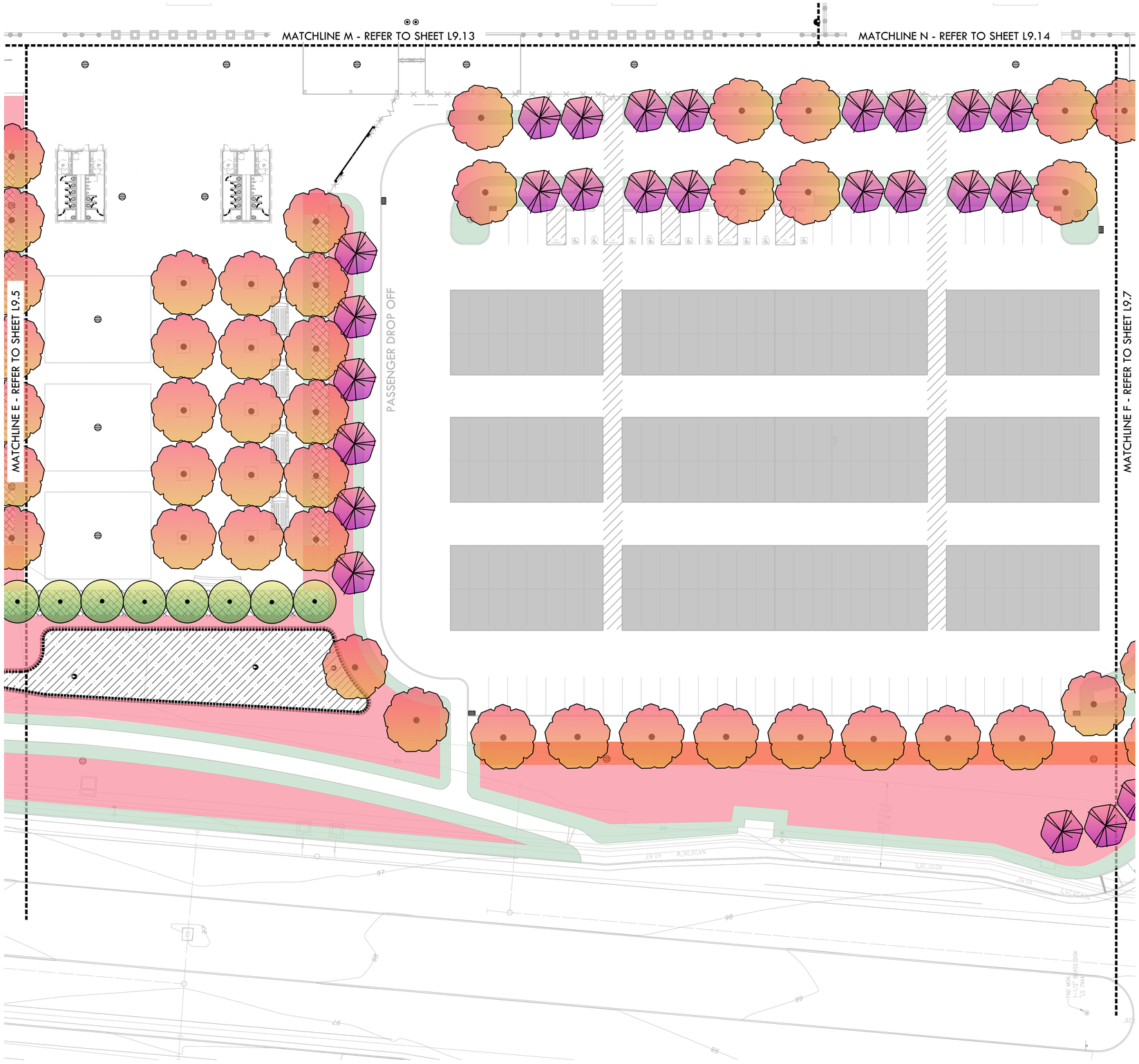
DRAWING NAME: X:\Projects-FD\2021\2103800 - Roseville # Soccer Complex\cad\L_PLT-RSC.dwg
PLOT DATE: 06-23-22 PLOTTED BY: station46



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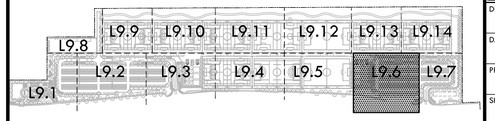

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Signature
EXPIRATION DATE: JULY 2023
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1		
2		
3		
4		
5		
6		

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CHECKED BY
DATE ISSUED 04/29/2022
SCALE 1"=20'-0"
PROJ. NO. 2103800
SHEET NO. L9.6

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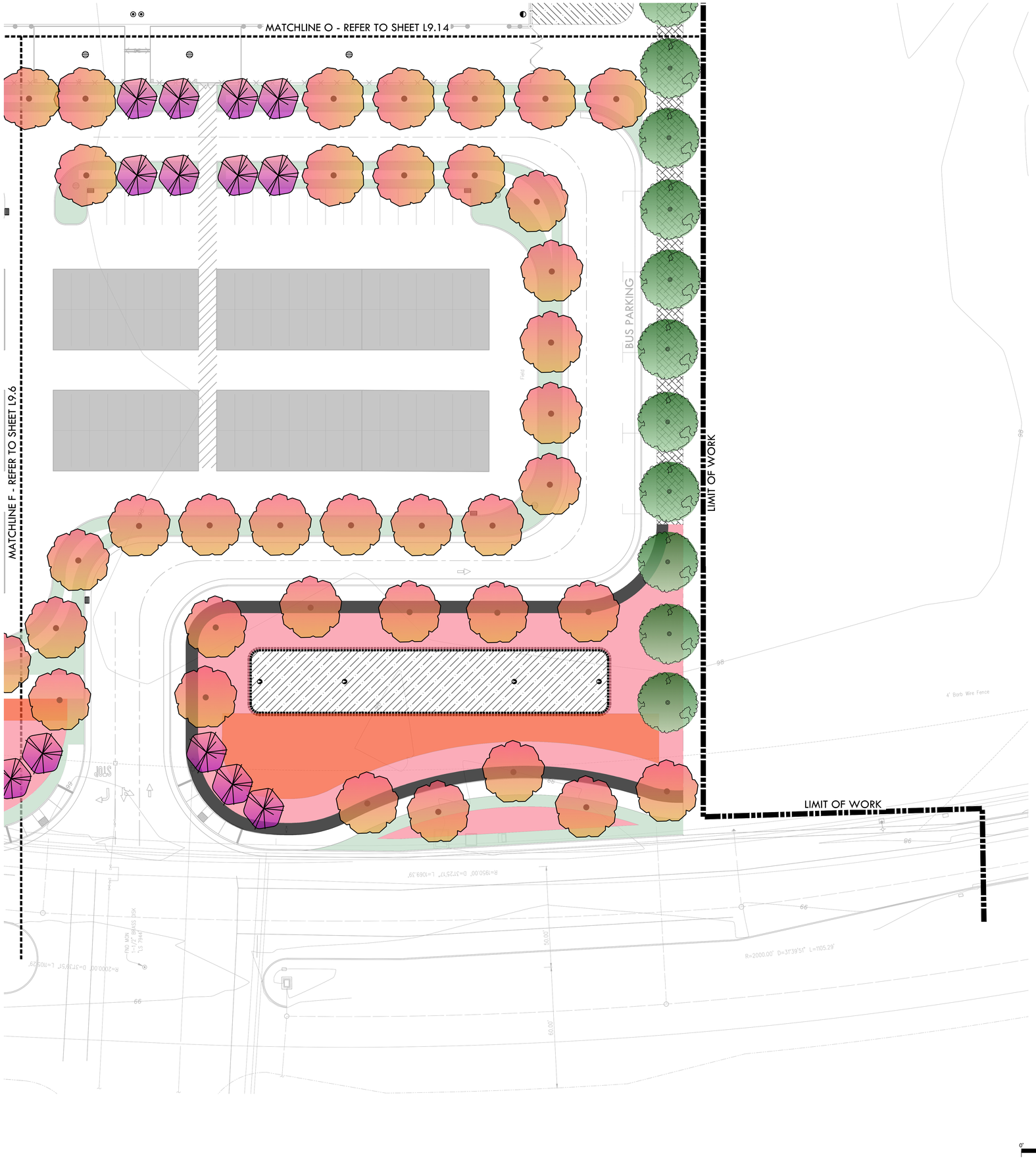

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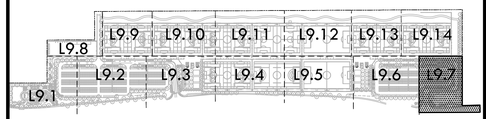
	-	1 GAL	ROSA X 'NOATRAUM' PINK CARPET ROSE	4' O.C.	MEDIUM	
MISC.						
			TALL FESCUE BLEND SOD - REFER TO SPECIFICATIONS	11,470 S.F.	HIGH	
			NATIVE BROADCAST SEED - REFER TO SPECIFICATIONS	223,749 S.F.	HIGH	
			3" DEP. MULCH UNDER SHRUBS AND TREES REFER TO SPECIFICATIONS	25,367 S.F.	N/A	

KEY MAP



NORTH

0' 10' 20' 40' 80'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BASINGER
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
PLANTING PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY
CHECKED BY
DATE ISSUED 04/29/2022
SCALE 1"=20'-0"
PROJ. NO. 2103800
SHEET NO. L9.7

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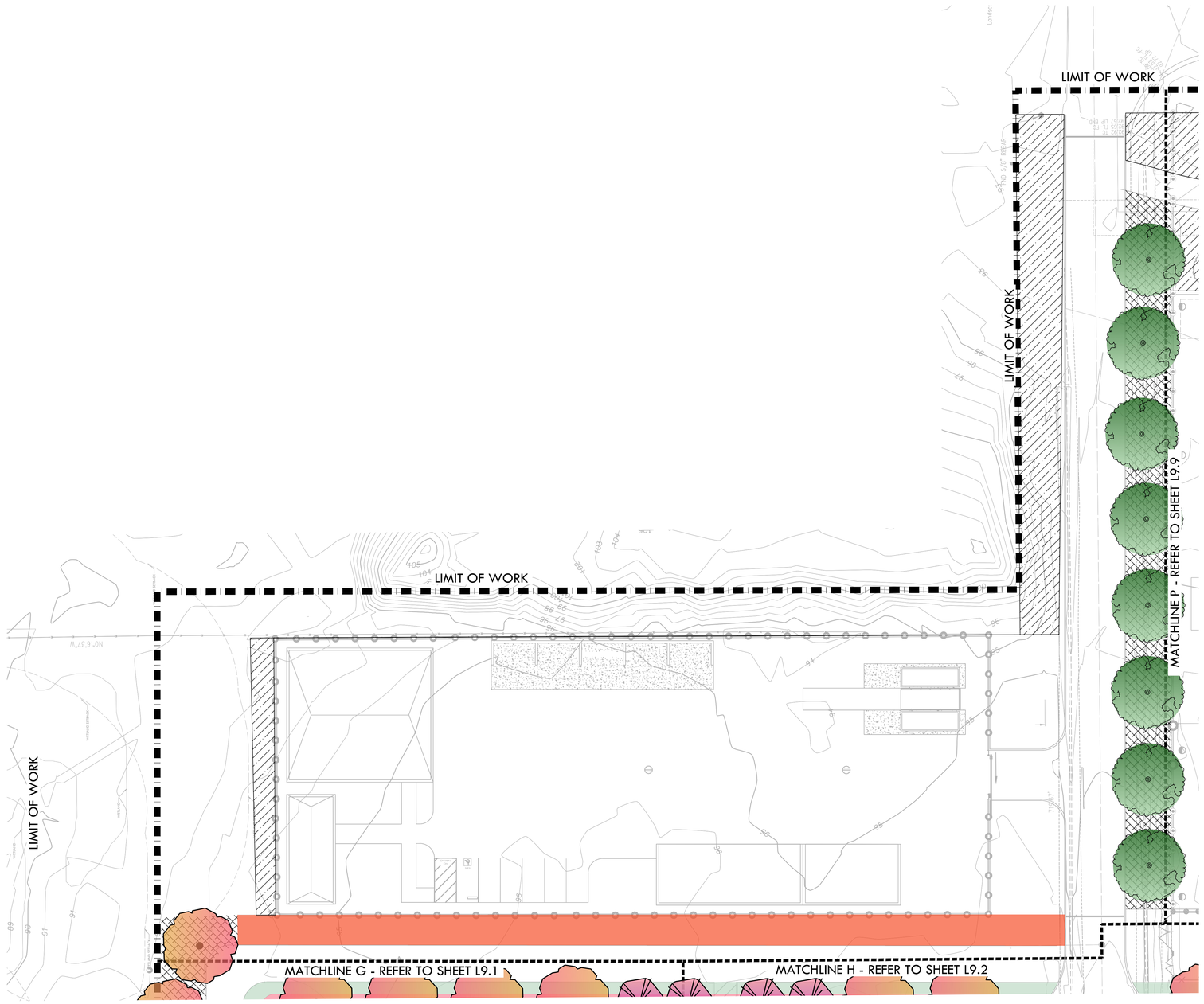
DRAWING NAME: X:\Projects-FY\2021\2103800 - Roseville X Soccer Complex\cad_PLT-RSC.dwg
PLOT DATE: 06-23-22 PLOTTED BY: station46



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PLANTING LEGEND

SYM.	QTY.	SIZE	BOTANICAL/COMMON NAME	SPACING	WATER USE REQUIREMENTS PER WUCOLS REGION 2 - CENTRAL VALLEY	DET REF
TREES						
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	-	15 GAL	GLEDITSIA TRIACANTHOS 'SHADEMASTER' SHADEMASTER THORNLESS HONEYLOCUST	P PLAN	LOW	
	-	15 GAL	LAGERSTROEMIA INDICA 'MUSKOGEE' PINK CRAPE MYRTLE	PER PLAN	LOW	
	-	15 GAL	LAGERSTROEMIA INDICA 'TUSKEGEE' PINK CRAPE MYRTLE	PER PLAN	LOW	
	-	15 GAL	LAURUS NOBILIS SWEET BAY LAUREL	PER PLAN	LOW	
	-	15 GAL	MAGNOLIA X S. 'ALEXANDRINA' ALEXANDER MAGNOLIA	PER PLAN	MEDIUM	
		15 GAL	PARKINSONIA ACULEATA PALO VERDE TREE	PER PLAN	VERY LOW	
	-	15 GAL	PISTACIA CHINENSIS CHINESE PISTACHE	PER PLAN	LOW	
	-	15 GAL	QUERCUS DOUGLASII BLUE OAK	PER PLAN	VERY LOW	
	-	15 GAL	QUERCUS VIRGINIANA SOUTHERN LIVE OAK	PER PLAN	MEDIUM	
	-	15 GAL	ULMUS DAVIDIANA JAPONICA 'MORTON' ACCOLADE ELM	PER PLAN	MEDIUM	
	-	15 GAL	ZELKOVA SERRATA 'VILLAGE GREEN' SAWLEAF ZELKOVA	PER PLAN	MEDIUM	
LARGE PLANTING						
	-	5 GAL	DODONAEA VISCOSA 'PURPUREA' PURPLE-LEAFED HOPBRUSH	8' O.C.	LOW	
	-	5 GAL	FORSYTHIA X INTERMEDIA 'KOLGOLD' GOLD FORSYTHIA	4' O.C.	LOW	
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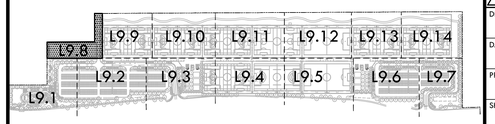

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30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

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DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"

PROJ. NO. 2103800

SHEET NO. L9.8

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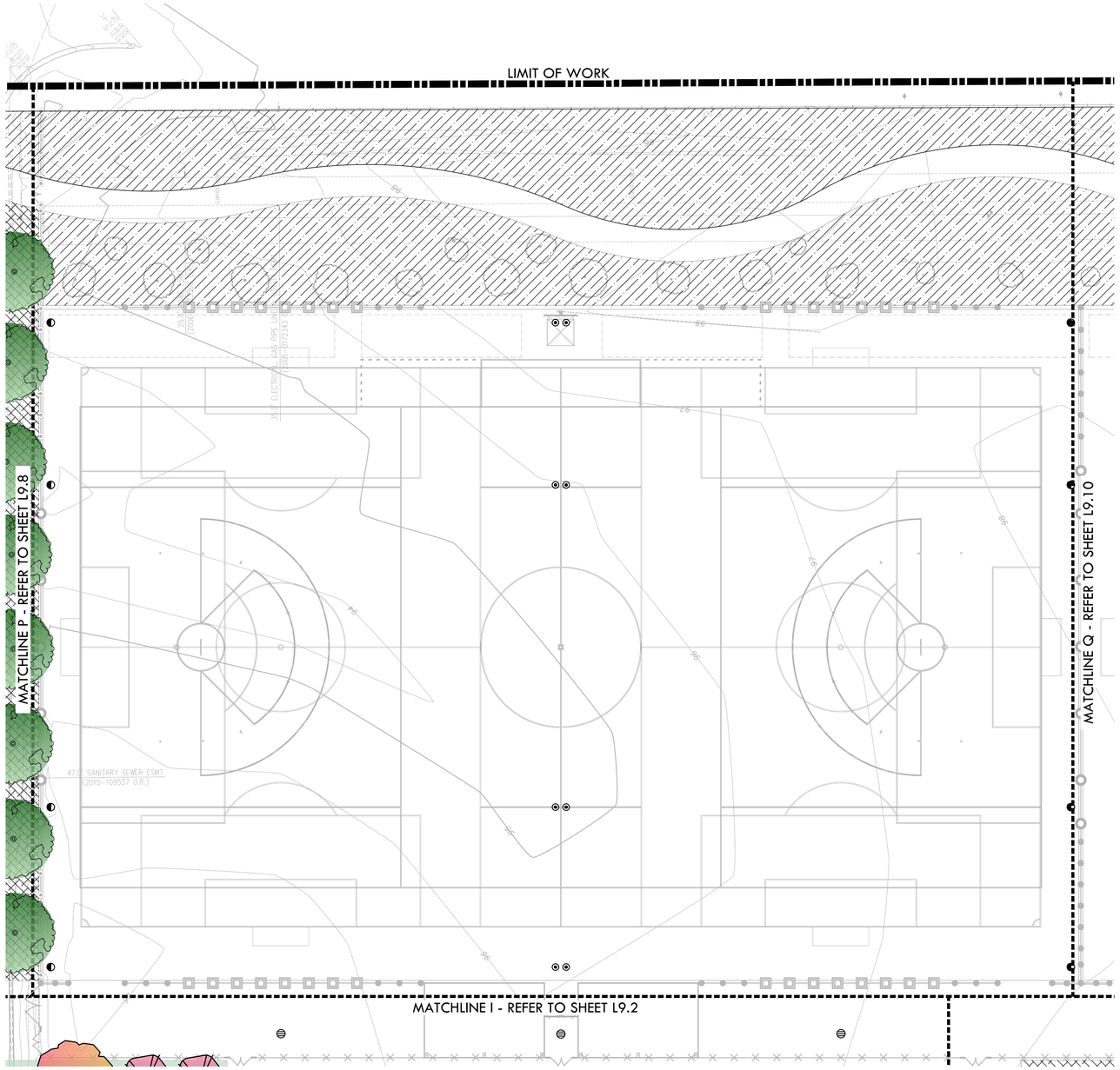
DRAWING NAME: Y:\Projects-FY\2021\2103800 - Roseville 6 Soccer Complex\CAD_PLT-RSC.dwg
PLOT DATE: 06-24-22 PLOTTED BY: station46



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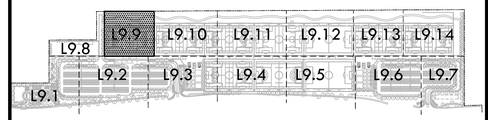

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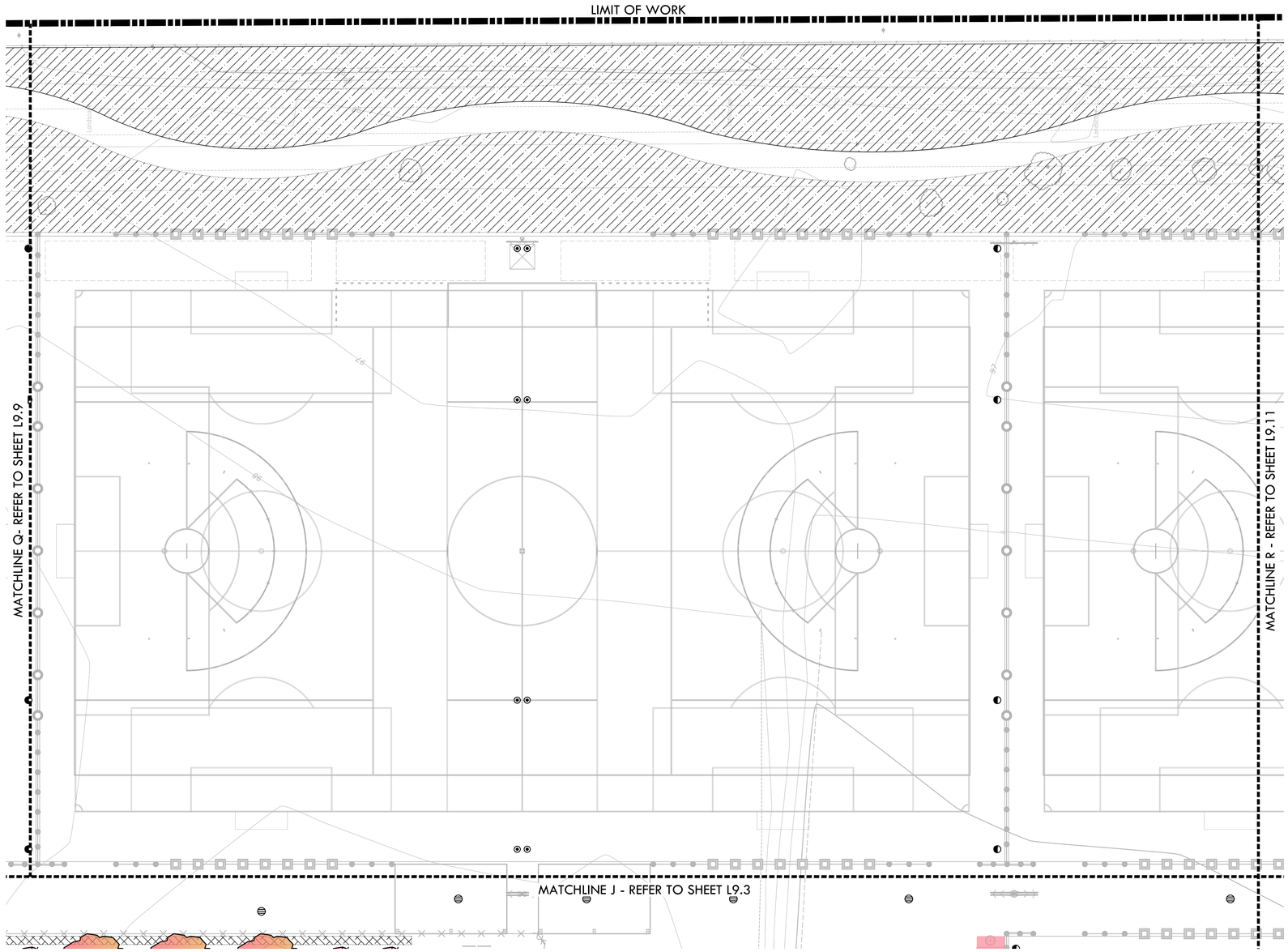
PLOT DATE: 06-23-22 PLOTTED BY: station46



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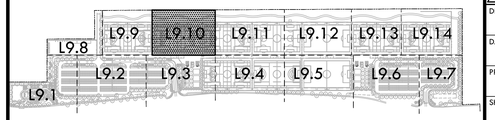
	-	5 GAL	FORSYTHIA X INTERMEDIA 'KOLGOLD' GOLD FORSYTHIA	4' O.C.	LOW	
	-	5 GAL	GREVILLEA X 'NOELLII' NOELL GREVILLEA	4' O.C.	LOW	
	-	5 GAL	HETEROMELES ARBUTIFOLIA TOYON	8' O.C.	VERY LOW	
	-	5 GAL	PHOTINIA FRASERI PHOTINIA	6' O.C.	MEDIUM	
	-	5 GAL	XYLOSMA CONGESTUM 'COMPACTA' COMPACT SHINY XYLOSMA	6' O.C.	LOW	
MEDIUM PLANTING						
	-	5 GAL	ABELIA GRANDIFLORA 'ED GOUCHER' GLOSSY ABELIA	3' O.C.	MEDIUM	
	-	5 GAL	BERBERIS THUNBERGII 'ATROPURPUREA' PURPLE JAPANESE BARBERRY	3' O.C.	MEDIUM	
	-	5 GAL	CALLISTEMON VIMINALIS 'LITTLE JOHNS' LITTLE JOHN'S BOTTLEBRUSH	2' O.C.	LOW	
	-	5 GAL	CISTUS PURPUREUS ORCHID ROCKROSE	3' O.C.	LOW	
	-	1 GAL	HEMEROCALLIS 'PRINCE OF VENICE' EVERGREEN DAYLILY	3' O.C	MEDIUM	
	-	1 GAL	LOMANDRA LONGIFOLIA 'BREEZE' DWARF MAT RUSH	3' O.C.	MEDIUM	
	-	1 GAL	MUHLENBERGIA RIGENS DEER GRASS	6' O.C.	LOW	
	-	1 GAL	MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS	2' O.C.	LOW	
	-	5 GAL	SPIRAEA JAPONICA 'GOLDFLAME' GOLDFLAME SPIRAEA	3' O.C.	MEDIUM	
LOW PLANTING						
	-	1 GAL	ACACIA REDOLENS 'LOW BOY' PROSTRATE ACACIA	10' O.C.	VERY LOW	
	-	1 GAL	ARCTOSTAPHYLOS 'EMERALD CARPET' DWARF MANZANITA	4' O.C.	MEDIUM	
	-	1 GAL	CAREX TUMULICOLA BERKLEY SEDGE	2' O.C.	LOW	
	-	1 GAL	CISTUS SALVIFOLIUS 'PROSTRATUS' SAGELEAF ROCKROSE	6' O.C.	LOW	
	-	1 GAL	DIANELLA REVOLUTA 'LITTLE REV' LITTLE REV FLAX LILY	2' O.C.	LOW	
	-	1 GAL	ERIGERON KARVINSKIANUS SANTA BARBARA DAISY	3' O.C.	LOW	
	-	1 GAL	MYOPORUM PARVIFOLIUM 'PUTAH CREEK' MYOPORUM	10' O.C.	LOW	
	-	1 GAL	ROSA X 'NOATRAUM' PINK CARPET ROSE	4' O.C.	MEDIUM	
MISC.						
			TALL FESCUE BLEND SOD - REFER TO SPECIFICATIONS	11,470 S.F.	HIGH	
			NATIVE BROADCAST SEED - REFER TO SPECIFICATIONS	223,749 S.F.	HIGH	
			3" DEP. MULCH UNDER SHRUBS AND TREES REFER TO SPECIFICATIONS	25,367 S.F.	N/A	

KEY MAP



NORTH

0' 10' 20' 40' 80'

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BASINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
PLANTING PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY

DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"

PROJ. NO. 2103800

SHEET NO. L9.10

PLANTING PLAN

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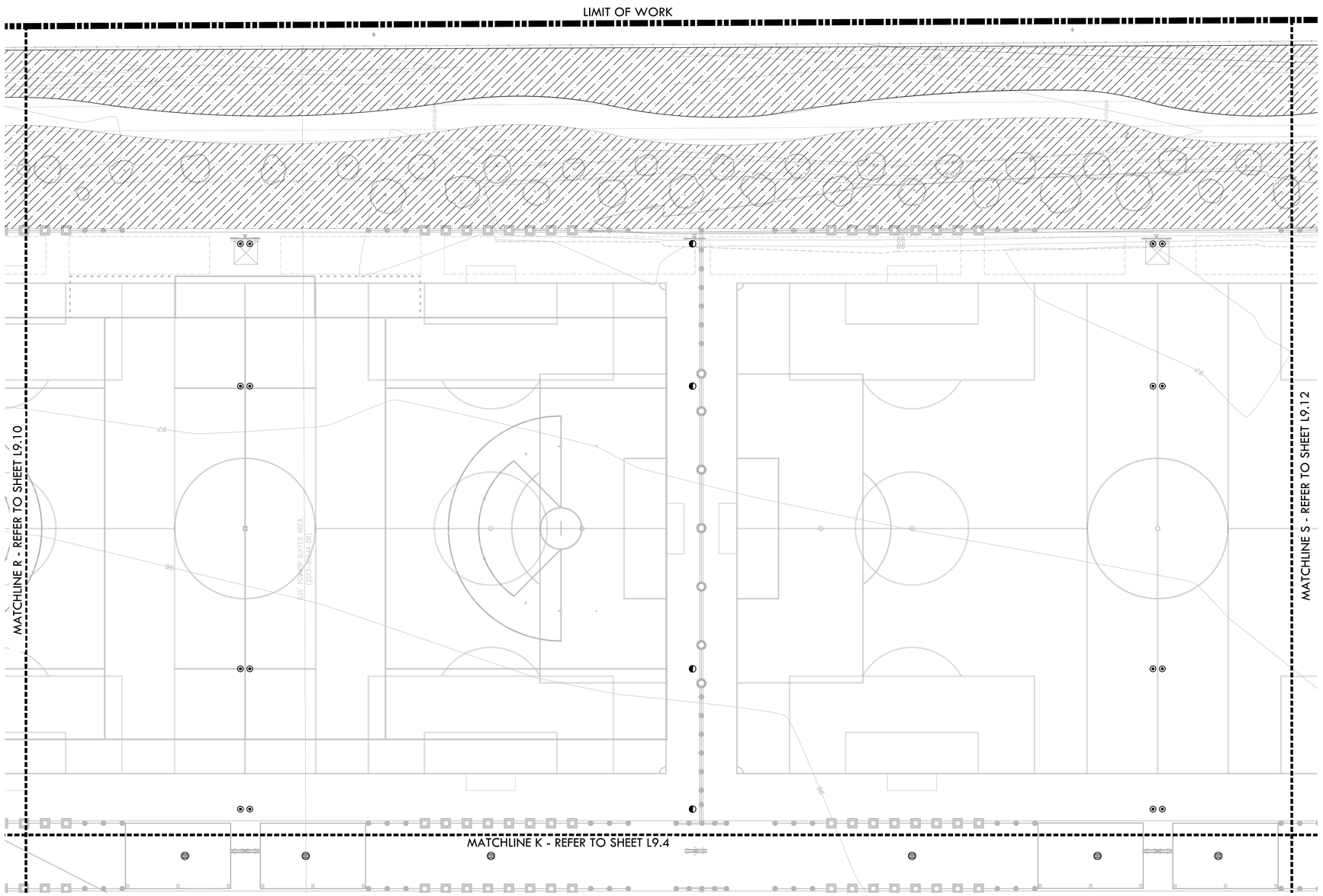

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	-	15 GAL	GLEDITSIA TRIACANTHOS 'SHADEMASTER' SHADEMASTER THORNLESS HONEYLOCUST	P PLAN	LOW	
	-	15 GAL	LAGERSTROEMIA INDICA 'MUSKOGEE' PINK CRAPE MYRTLE	PER PLAN	LOW	
	-	15 GAL	LAGERSTROEMIA INDICA 'TUSKEGEE' PINK CRAPE MYRTLE	PER PLAN	LOW	
	-	15 GAL	LAURUS NOBILIS SWEET BAY LAUREL	PER PLAN	LOW	
	-	15 GAL	MAGNOLIA X S. 'ALEXANDRINA' ALEXANDER MAGNOLIA	PER PLAN	MEDIUM	
		15 GAL	PARKINSONIA ACULEATA PALO VERDE TREE	PER PLAN	VERY LOW	
	-	15 GAL	PISTACIA CHINENSIS CHINESE PISTACHE	PER PLAN	LOW	
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	-	15 GAL	QUERCUS VIRGINIANA SOUTHERN LIVE OAK	PER PLAN	MEDIUM	
	-	15 GAL	ULMUS DAVIDIANA JAPONICA 'MORTON' ACCOLADE ELM	PER PLAN	MEDIUM	
	-	15 GAL	ZELKOVA SERRATA 'VILLAGE GREEN' SAWLEAF ZELKOVA	PER PLAN	MEDIUM	
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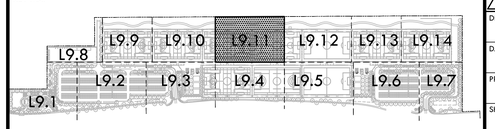

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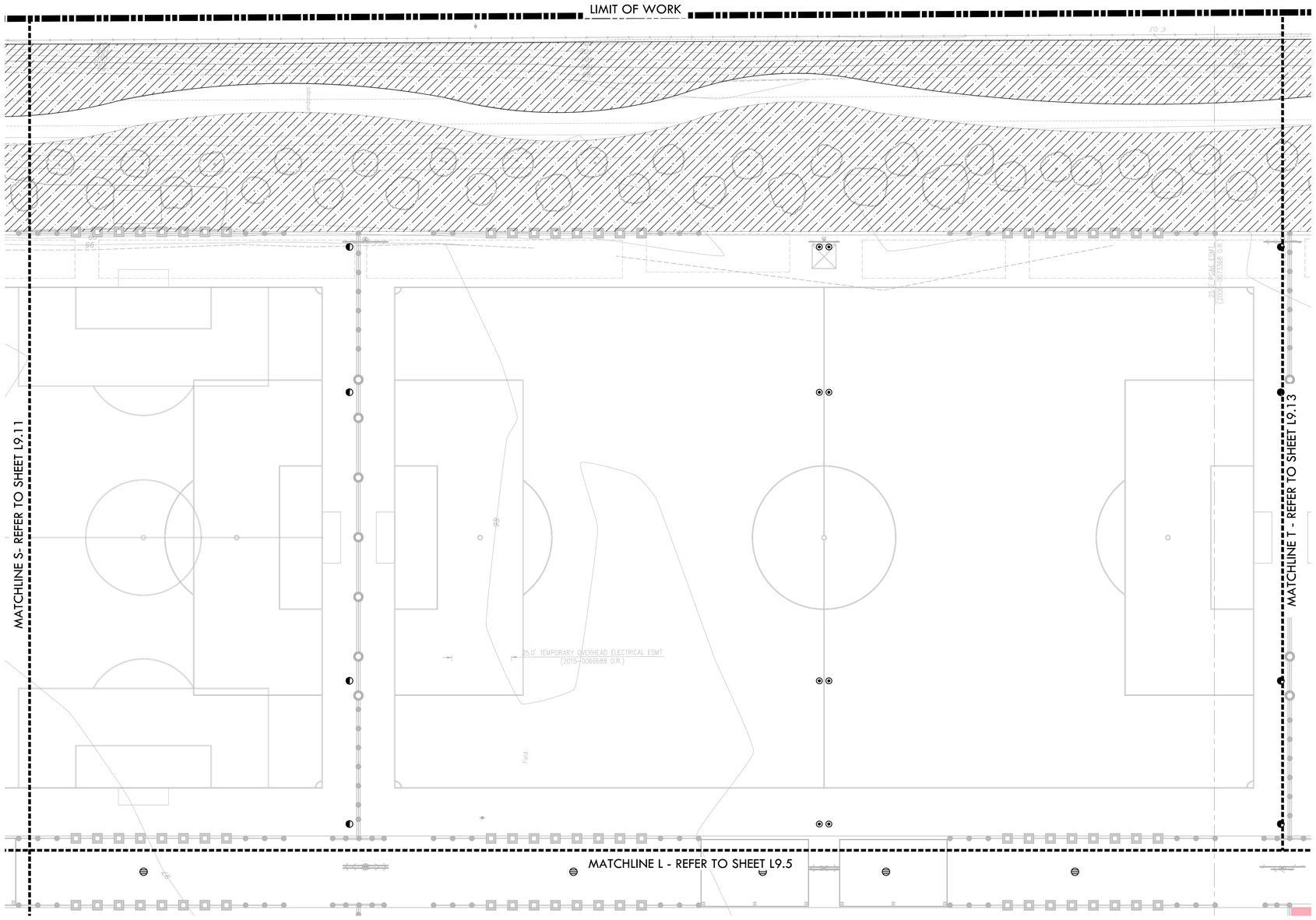

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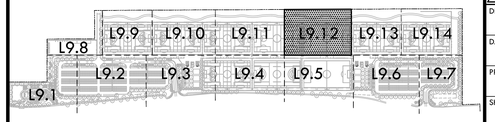

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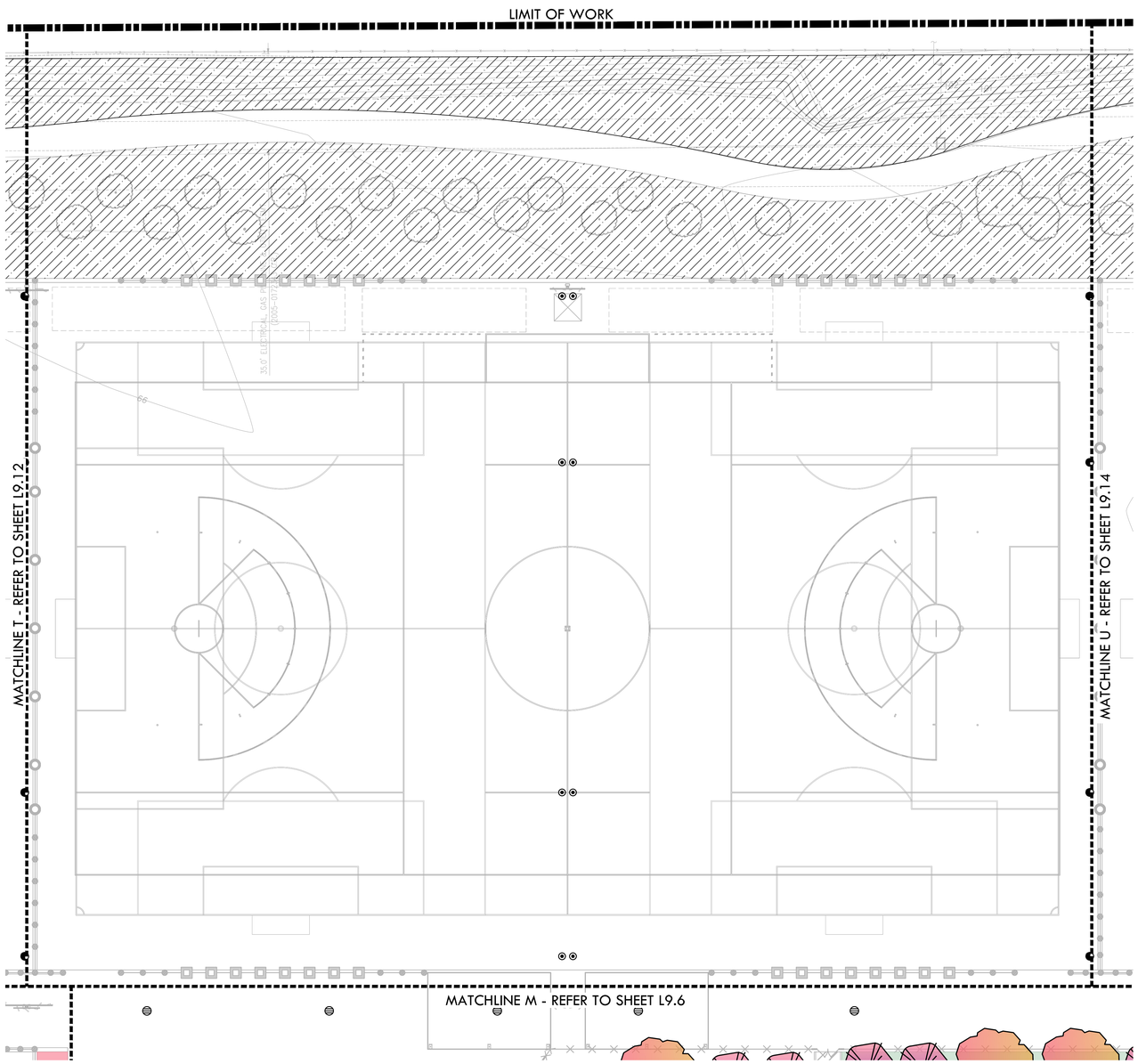

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5. ALL SHRUB AND TREE AREA SHALL RECEIVE A WEED FABRIC LAYER. INSTALL WITH STAPLES, 3" OVERLAP AND COVER WITH MULCH.
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7. CONTRACTOR SHALL PROVIDE JUTE NETTING IN THE ENTIRE PLANTING AREAS. STAKE JUTE NETTING 36" ON CENTER.

PLANTING LEGEND

SYM.	QTY.	SIZE	BOTANICAL/COMMON NAME	SPACING	WATER USE REQUIREMENTS PER WUCOLS REGION 2 - CENTRAL VALLEY	DET REF
TREES						
	-	15 GAL	CEDRUS DEODORA DEODOR CEDAR	PER PLAN	LOW	
	-	15 GAL	GLEDITSIA TRIACANTHOS 'SHADEMASTER' SHADEMASTER THORNLESS HONEYLOCUST	P PLAN	LOW	
	-	15 GAL	LAGERSTROEMIA INDICA 'MUSKOGEE' PINK CRAPE MYRTLE	PER PLAN	LOW	
	-	15 GAL	LAGERSTROEMIA INDICA 'TUSKEGEE' PINK CRAPE MYRTLE	PER PLAN	LOW	
	-	15 GAL	LAURUS NOBILIS SWEET BAY LAUREL	PER PLAN	LOW	
	-	15 GAL	MAGNOLIA X S. 'ALEXANDRINA' ALEXANDER MAGNOLIA	PER PLAN	MEDIUM	
		15 GAL	PARKINSONIA ACULEATA PALO VERDE TREE	PER PLAN	VERY LOW	
	-	15 GAL	PISTACIA CHINENSIS CHINESE PISTACHE	PER PLAN	LOW	
	-	15 GAL	QUERCUS DOUGLASII BLUE OAK	PER PLAN	VERY LOW	
	-	15 GAL	QUERCUS VIRGINIANA SOUTHERN LIVE OAK	PER PLAN	MEDIUM	
	-	15 GAL	ULMUS DAVIDIANA JAPONICA 'MORTON' ACCOLADE ELM	PER PLAN	MEDIUM	
	-	15 GAL	ZELKOVA SERRATA 'VILLAGE GREEN' SAWLEAF ZELKOVA	PER PLAN	MEDIUM	
LARGE PLANTING						
	-	5 GAL	DODONAEA VISCOSA 'PURPUREA' PURPLE-LEAFED HOPBRUSH	8' O.C.	LOW	
	-	5 GAL	FORSYTHIA X INTERMEDIA 'KOLGOLD' GOLD FORSYTHIA	4' O.C.	LOW	
	-	5 GAL	GREVILLEA X 'NOELLII' NOELL GREVILLEA	4' O.C.	LOW	
	-	5 GAL	HETEROMELES ARBUTIFOLIA TOYON	8' O.C.	VERY LOW	
	-	5 GAL	PHOTINIA FRASERI PHOTINIA	6' O.C.	MEDIUM	
	-	5 GAL	XYLOSMA CONGESTUM 'COMPACTA' COMPACT SHINY XYLOSMA	6' O.C.	LOW	
MEDIUM PLANTING						
	-	5 GAL	ABELIA GRANDIFLORA 'ED GOUCHER' GLOSSY ABELIA	3' O.C.	MEDIUM	
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	-	5 GAL	CALLISTEMON VIMINALIS 'LITTLE JOHNS' LITTLE JOHN'S BOTTLEBRUSH	2' O.C.	LOW	
	-	5 GAL	CISTUS PURPUREUS ORCHID ROCKROSE	3' O.C.	LOW	
	-	1 GAL	HEMEROCALLIS 'PRINCE OF VENICE' EVERGREEN DAYLILY	3' O.C	MEDIUM	
	-	1 GAL	LOMANDRA LONGIFOLIA 'BREEZE' DWARF MAT RUSH	3' O.C.	MEDIUM	
	-	1 GAL	MUHLENBERGIA RIGENS DEER GRASS	6' O.C.	LOW	
	-	1 GAL	MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS	2' O.C.	LOW	
	-	5 GAL	SPIRAEA JAPONICA 'GOLDFLAME' GOLDFLAME SPIRAEA	3' O.C.	MEDIUM	
LOW PLANTING						
	-	1 GAL	ACACIA REDOLENS 'LOW BOY' PROSTRATE ACACIA	10' O.C.	VERY LOW	
	-	1 GAL	ARCTOSTAPHYLOS 'EMERALD CARPET' DWARF MANZANITA	4' O.C.	MEDIUM	
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MISC.						
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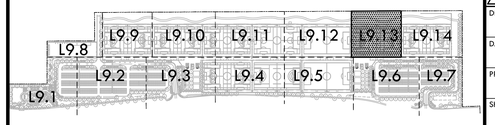
NORTH

0' 10' 20' 40' 80'

KEY MAP



VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
PLANTING PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

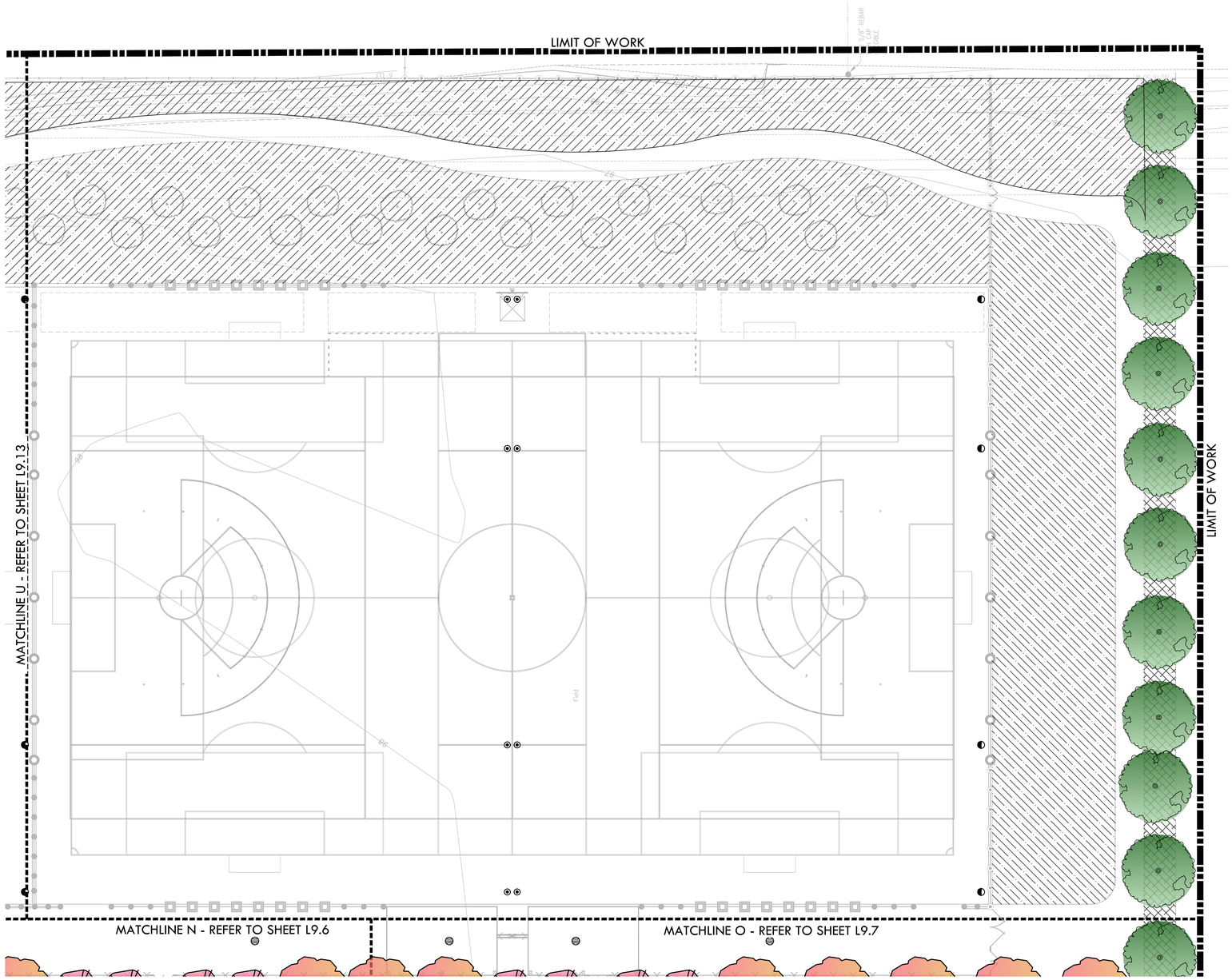
SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY
DATE ISSUED 04/29/2022 | SCALE 1"=20'-0"
PROJ. NO. 2103800
SHEET NO. L9.13

ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF VERDE DESIGN, INC. AND IT IS AGREED THAT ALL SUCH IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS SHALL BE RETURNED TO VERDE DESIGN, INC. UPON DEMAND.

DRAWING NAME: Y:\Projects-FD\2021\2103800 - Roseville 6 Soccer Complex\cad_PLT-RSC.dwg
PLOT DATE: 06-23-22 PLOTTED BY: station46



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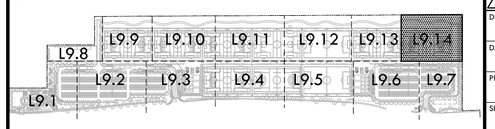
KEY MAP



NORTH

0' 10' 20' 40' 80'

VERDE DESIGN
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1843 Iron Point Rd. Suite 140
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STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
PLANTING PLAN

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE 1"=20'-0"
PROJ. NO. 2103800	
SHEET NO. L9.14	

PLANTING PLAN

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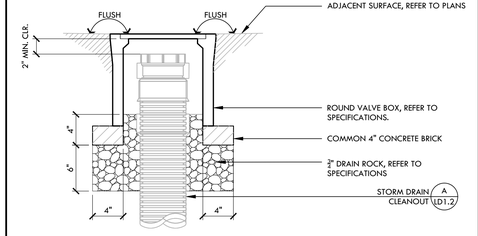
DRAWING NAME: V:\Projects-FY\2021\2103800 - Roseville 6 Soccer Complex\cad_PLT-RSC.dwg
PLOT DATE: 06-23-22 PLOTTED BY: station46

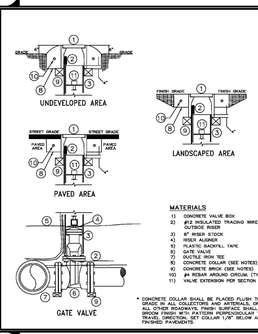
S — SECTION

NTS



N — PERFORATED SUBDRAIN

NTS



NOTES:
TRACING WIRE THROUGH VALVE BOXES SHALL BE PLACED OUTSIDE OF RISER BUT INSIDE OF BOX.

TRACING WIRE SHALL BE SPLICED INSIDE THE VALVE BOX PER DW-17) AND SHALL LOOP WITHIN THE VALVE BOX WITH 18" OF SLACK WIRE

ALL GATE VALVES SHALL BE CENTERED IN A ONE PIECE RISER STOCK WITH THE USE OF A RISER ALIGNER

OPERATION NUTS DEEPER THAN 42 INCHES FROM FINISH GRADE SHALL REQUIRE A VALVE NUT EXTENSION 2 FEET MINIMUM IN LENGTH.

VALVE BOXES LOCATED IN A PAVED AREA SHALL BE PLACED IN A 24" X 24" CONCRETE COLLAR A MINIMUM OF 2" BELOW PAVEMENT

VALVE BOXES LOCATED IN A LANDSCAPED AREA SHALL BE PLACED IN A 24" X 24" CONCRETE COLLAR AT FINISHED GRADE

VALVE BOXES LOCATED IN AN UNDEVELOPED AREA SHALL BE PLACED IN A 12" DEEP BY 8" WIDE CONCRETE COLLAR 8 INCHES ABOVE GRADE

INSTALL 12" X 5" CONCRETE BRICK(S) UNDER ENTIRE PERIMETER OF BOX.

VALVES AND FITTINGS SHALL BE WRAPPED AND SEALED IN 8 MIL POLYETHYLENE

VALVE INSIDE STOCK SHALL BE A MINIMUM OF 4" INSIDE VALVE BOX AND MINIMUM 3" BELOW METAL RING.

MATERIALS
1) CONCRETE VALVE BOX
2) #12 INSULATED TRACING WIRE OUTSIDE RISER
3) 6" RISER STOCK
4) RISER ALIGNER
5) PLASTIC BACKFILL TAPE
6) 6" GATE VALVE
7) OUTLET IRON TEE
8) CONCRETE COLLAR (SEE NOTES) *
9) CONCRETE BRICK (SEE NOTES)
10) #4 REBAR AROUND CIRCUM. (TYP.)
11) VALVE EXTENSION PER SECTION 81-12.B

* CONCRETE COLLAR SHALL BE PLACED FLUSH TO FINISH GRADE IN ALL COLLECTORS AND ARTERIALS. OPTIONAL IN ALL OTHER ROADWAYS. FINISH SURFACE SHALL BE MEDIUM BROOM FINISH WITH PATTERN PERPENDICULAR TO VEHICLE TRAVEL DIRECTION. SET COLLAR 1/8" BELOW ADJACENT FINISHED PAVEMENTS.

Richard D. Plecker
RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT

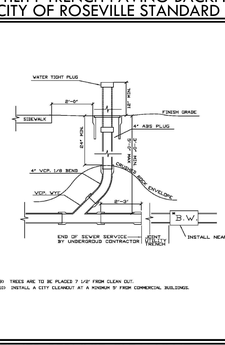
GATE VALVE & BOX

SCALE: NONE
REVISED: JANUARY 2020
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-16

I — UTILITY TRENCH PAVING BACKFILL EMBEDMENT (CITY OF ROSEVILLE STANDARD TB-1)

NTS



NOTES:
1) INSTALL ROUND NON-TRAFFIC TYPE CONCRETE VALVE BOX & COVER MARKED "SEWER" IN A NON - TRAFFIC AREA. INSTALL METAL LID MARKED "SEWER" IN TRAFFIC AREAS. ALL LIDS TO BE FREE OF ALL DIRT AND READY FOR INSPECTION. A DS BOX SHALL BE INSTALLED IN TRAFFIC AREAS.
2) 5' VCP STUB SHALL BE INSTALLED UPSTREAM OF CLEANOUT. 5" VCP SHALL BE INSTALLED WHERE SEWER SERVICE ENTERS OVER JOINT UTILITY TRENCH
3) CLEANOUT BOX TO BE FREE OF ALL DIRT AND READY AT TIME OF PRE-FINAL INSPECTION
4) SERVICES OVER 100' LONG AND COMMERCIAL SERVICES OVER 4" SHALL NOT BE CONNECTED WITH FITTINGS. THE CLEANOUT SHALL BE A 6-0 X 8-0 BOX ITEM 6", 6" RISERS AND A D-12 SCH 1120 6" RISERS. CONSTRUCT PER V-106.
5) CONNECTION TO MAIN SHALL BE WITH A FACTORY WYE OR AT A MANHOLE.
6) THE CLEANOUT RISER SHALL BE INSTALLED 18" ABOVE GRADE PRIOR TO BUILDING CONSTRUCTION.
7) BUILDING CONTRACTOR SHALL SET BOX TO FINISH GRADE AND INSTALL AN ABS PLUG SET 6" BELOW THE SURFACE PRIOR TO BUILDING PRE-FINAL.
8) BACKWATER VALVE 'B' REQUIRES SHALL BE INSTALLED BY THE BUILDING CONTRACTOR

9) TREES ARE TO BE PLACED 7 1/2' FROM CLEAN OUT.
10) INSTALL A CITY CLEANOUT AT A MINIMUM 5' FROM COMMERCIAL BUILDINGS.

Richard D. Plecker
RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT

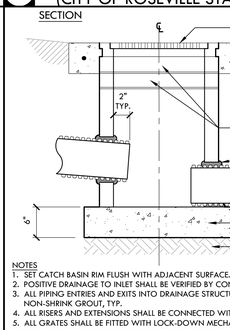
SEWER SERVICE CLEANOUT

SCALE: NONE
REVISED: JANUARY 2020
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

SS-5

D — STANDARD PRECAST MANHOLE (CITY OF ROSEVILLE STANDARD DR-4)

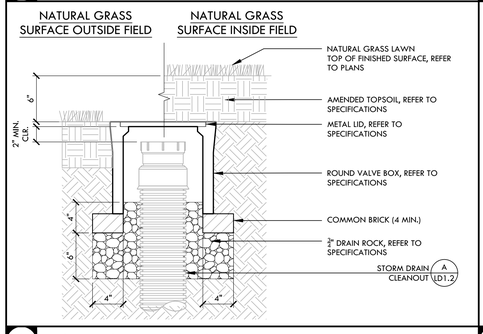
NTS



NOTES
1. SET CATCH BASIN RIM FLUSH WITH ADJACENT SURFACE. VERIFY EXACT LOCATION AND RIM PRIOR TO INSTALLATION.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
4. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
5. ALL GRATES SHALL BE FITTED WITH LOCK-DOWN MECHANISMS OR BOLT-DOWN COVERS.

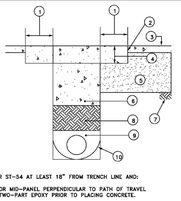
R — CLEANOUT IN HARDSCAPE

NTS



M — GATE VALVE AND BOX (CITY OF ROSEVILLE STANDARD W-16)

NTS



NOTES:
1. SAWCUT EXISTING CONCRETE PAVEMENT PER ST-54 AT LEAST 18" FROM TRENCH LINE AND:
   a. AT AN EXISTING JOINT
   b. IN THE MIDDLE OF A TRAVELED LANE OR MID-PANEL PERPENDICULAR TO PATH OF TRAVEL
2. COAT ALL EXISTING VERTICAL FACES WITH TWO-PART EPOXY PRIOR TO PLACING CONCRETE.
3. EXISTING PAVING
4. PATCH SHALL BE THICKNESS OF EXISTING SECTION. PER CITY TRENCH CUT ORDINANCE (6 INCH MINIMUM THICKNESS).
5. AGGREGATE BASE/SUBBASE: RECOMPACT DISTURBED SURFACE AREAS TO 95%.
6. TWO FEET OF TWO SACK CONCRETE SLURRY PER CALTRANS STANDARD SPECIFICATION 19-3.062
7. NATIVE SOIL
8. NATIVE SOIL TO BE PROCESSED TO 90% RELATIVE COMPACTION.
9. FOR PIPE EMBEDMENT, SEE THE FOLLOWING CONDITIONS:
   a. TB-2 FOR PLASTIC STORM DRAIN PIPE
   b. W-1 FOR WATER PIPE
   c. SS-1 FOR WASTE WATER PIPE
   d. FOR REINFORCED CONCRETE PIPE, PLACE 1/2 OR 3/4 INCH CRUSHED ROCK UP TO SPRING LINE WITH A MINIMUM OF FOUR INCHES OF BEDDING BELOW PIPE. MAINTAIN A MINIMUM OF SIX INCHES OF CLEARANCE BETWEEN THE PIPE AND THE TRENCH WALL.
10. ALTERNATE TRENCH BOTTOM. THE DIAMETER OF THE ALTERNATE, ROUNDED TRENCH BOTTOM SHALL EQUAL THE WIDTH OF THE TRENCH.

NOTE: THIS DETAIL APPLIES TO UTILITY TRENCHES IN WHICH TRENCH CUT FEES WERE NOT PAID BY THE APPLICANT, OR AS SPECIFIED BY THE ENGINEER.

JASON SHYKOWSKI
PUBLIC WORKS DIRECTOR

CITY OF ROSEVILLE DEVELOPMENT SERVICES DEPARTMENT

DEEP CUT "T" PATCH RECONSTRUCTION CONCRETE STREETS

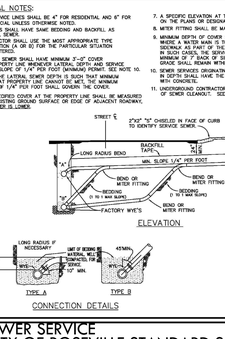
SCALE: NONE
REVISED: FEBRUARY 2021
DRAWN BY: BENNETT ENGINEERING
APPROVED BY: JASON SHYKOWSKI

TB-3a

H — SEWER SERVICE CLEANOUT (CITY OF ROSEVILLE STANDARD SS-5)

NTS

GENERAL NOTES:
1. ALL SERVICE LINES SHALL BE 4" FOR RESIDENTIAL AND 6" FOR COMMERCIAL UNLESS OTHERWISE NOTED.
2. SERVICES SHALL HAVE SAME BEDDING AND BACKFILL AS CONTRACTOR.
3. CONTRACTOR SHALL USE THE MOST APPROPRIATE TYPE CONNECTION (A OR B) FOR THE PARTICULAR SITUATION ENCOUNTERED.
4. SEWER SERVICE SHALL HAVE MINIMUM 3'-0" COVER AT PROPERTY LINE WHENEVER LATERAL DEPTH AND SERVICE SEWER SLOPE OF 1/4" PER FOOT (MINIMUM) PERMIT. SEE NOTE 10.
5. WHEN THE LATERAL SEWER DEPTH IS SUCH THAT MINIMUM COVER AND SLOPE CANNOT BE OBTAINED, A MINIMUM SLOPE OF 1/4" PER FOOT SHALL GOVERN THE CASE.
6. MIN. SPECIFIED COVER AT THE PROPERTY LINE SHALL BE MEASURED FROM EXISTING GROUND SURFACE OR EDGE OF ADJACENT ROADWAY, WHICHEVER IS LOWER.
7. A SPECIFIC ELEVATION AT THE PROPERTY LINE, WHEN SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER, SHALL GOVERN.
8. WYE FITTING SHALL BE MAX. 45°.
9. MINIMUM DEPTH OF COVER SHALL BE INCREASED TO 4'-6" WHERE A WATER MAIN IS TO BE INSTALLED AT BACK OF SIDEWALK OR WHERE A PUBLIC UTILITY EASEMENT IS INVOLVED. IN SUCH CASES, THE SERVICE SHALL BE EXTENDED TO A MINIMUM OF 2' BACK OF SIDEWALK/ CLEANOUT TO GRADE SHALL REMAIN WITHIN 2' OF BACK OF SIDEWALK.
10. SEWER SERVICES ORIGINATING FROM SEWER MAINS 14-15" AND GREATER IN DEPTH SHALL HAVE THE CROTCH OF THE WYE "WYC" FITTING FILLED WITH CONCRETE.
11. UNDERGROUND CONTRACTOR SHALL END SEWER SERVICE 2'-0" UPSTREAM OF SEWER CLEANOUT. SEE STANDARD DETAIL SS-5.



Richard D. Plecker
RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT

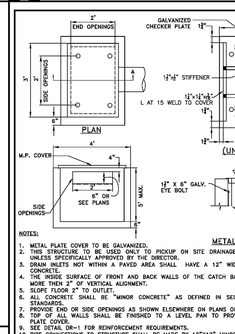
SEWER SERVICE

SCALE: NONE
REVISED: JANUARY 2017
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

SS-4

C — DROP INLET IN TURF AREAS

NTS



NOTE: METAL PLATE COVER TO BE D&L SUPPLY (FA-8452-01) OR APPROVED EQUAL)

NOTES:
1. METAL PLATE COVER TO BE GALVANIZED.
2. THIS STRUCTURE TO BE USED ONLY TO PICKUP ON SITE DRAINAGE ON PRIVATE PROPERTY UNLESS SPECIFICALLY APPROVED BY FIRE DIRECTOR.
3. DRAIN INLETS NOT WITHIN A PAVED AREA SHALL HAVE A 12" WIDE COLLAR OF 6" THICK CONCRETE.
4. THE INSIDE SURFACE OF FRONT AND BACK WALLS OF THE CATCH BASIN SHALL NOT DEVIATE MORE THEN 2" OF VERTICAL ALIGNMENT.
5. SLOPE FLOOR 2" TO OUTLET.
6. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.
7. CONCRETE END OR SIDE OPENINGS AS SHOWN ELSEWHERE ON PLANS OR CROSS SECTIONS.
8. TOP OF ALL WALLS SHALL BE FINISHED TO A LEVEL PAN TO PROVIDE EVEN BEARING FOR PLATE COVER.
9. SEE STDL DR-1 FOR REINFORCEMENT REQUIREMENTS.
10. PIPE CONNECTIONS TO STRUCTURE SHALL BE MADE BY 12"x12" MINOR CONCRETE COLLARS.

MARC STOUT
CITY ENGINEER

CITY OF ROSEVILLE DEVELOPMENT SERVICES DEPARTMENT

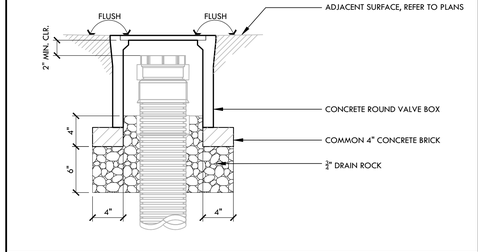
DROP INLET TYPE "P"

SCALE: NONE
REVISED: JANUARY 1, 2020
DRAWN BY: R MEDINA
APPROVED BY: MARC STOUT

DR-3

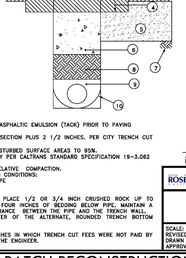
Q — CLEANOUT IN SOFTSCAPE

NTS



L — DEEP CUT "T" PATCH RECONSTRUCTION IN CONCRETE (CITY OF ROSEVILLE STANDARD TB-3)

NTS



NOTES:
1. 18 INCH KEY OUTSIDE TRENCH LINE
2. COAT ALL EXISTING VERTICAL FACES WITH ASPHALTIC EMULSION (TACK) PRIOR TO PAVING
3. EXISTING PAVING
4. PATCH SHALL BE THICKNESS OF EXISTING SECTION PLUS 2 1/2 INCHES. PER CITY TRENCH CUT ORDINANCE (6 INCH MINIMUM THICKNESS).
5. AGGREGATE BASE/SUBBASE: RECOMPACT DISTURBED SURFACE AREAS TO 95%.
6. TWO FEET OF TWO SACK CONCRETE SLURRY PER CALTRANS STANDARD SPECIFICATION 19-3.062
7. NATIVE SOIL
8. NATIVE SOIL TO BE PROCESSED TO 90% RELATIVE COMPACTION.
9. FOR PIPE EMBEDMENT, SEE THE FOLLOWING CONDITIONS:
   a. TB-2 FOR PLASTIC STORM DRAIN PIPE
   b. W-1 FOR WATER PIPE
   c. SS-1 FOR WASTE WATER PIPE
   d. FOR REINFORCED CONCRETE PIPE, PLACE 1/2 OR 3/4 INCH CRUSHED ROCK UP TO SPRING LINE WITH A MINIMUM OF FOUR INCHES OF BEDDING BELOW PIPE. MAINTAIN A MINIMUM OF SIX INCHES OF CLEARANCE BETWEEN THE PIPE AND THE TRENCH WALL.
10. ALTERNATE TRENCH BOTTOM. THE DIAMETER OF THE ALTERNATE, ROUNDED TRENCH BOTTOM SHALL EQUAL THE WIDTH OF THE TRENCH.

NOTE: THIS DETAIL APPLIES TO UTILITY TRENCHES IN WHICH TRENCH CUT FEES WERE NOT PAID BY THE APPLICANT, OR AS SPECIFIED BY THE ENGINEER.

JASON SHYKOWSKI
PUBLIC WORKS DIRECTOR

CITY OF ROSEVILLE DEPARTMENT OF PUBLIC WORKS

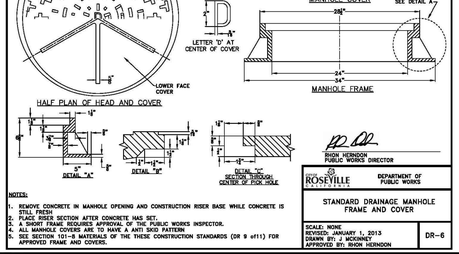
DEEP CUT "T" PATCH RECONSTRUCTION ASPHALT STREETS

SCALE: NONE
REVISED: FEBRUARY 2021
DRAWN BY: R MEDINA
APPROVED BY: JASON SHYKOWSKI

TB-3

G — SEWER SERVICE (CITY OF ROSEVILLE STANDARD SS-4)

NTS



NOTES:
1. REMOVE CONCRETE IN MANHOLE OPENING AND CONSTRUCTION RISER BASE WHILE CONCRETE IS STILL FRESH
2. PLACE RISER SECTION AFTER CONCRETE HAS SET.
3. ALL MANHOLE COVERS SHALL BE APPROVED APPROVAL OF THE PUBLIC WORKS INSPECTOR.
4. ALL MANHOLE COVERS ARE TO HAVE A ANTI SKID PATTERN
5. SEE SECTION 101-6 MATERIALS OF THE THESE CONSTRUCTION STANDARDS (DR 9 of11) FOR APPROVED FRAME AND COVERS.

RHON HERNDON
PUBLIC WORKS DIRECTOR

CITY OF ROSEVILLE DEPARTMENT OF PUBLIC WORKS

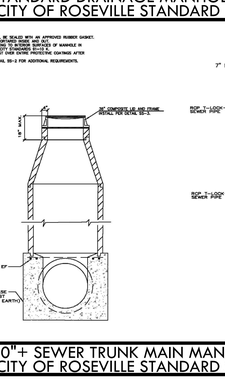
STANDARD DRAINAGE MANHOLE FRAME AND COVER

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

DR-6

F — STANDARD DRAINAGE MANHOLE COVER (CITY OF ROSEVILLE STANDARD DR-6)

NTS



Richard D. Plecker
RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT

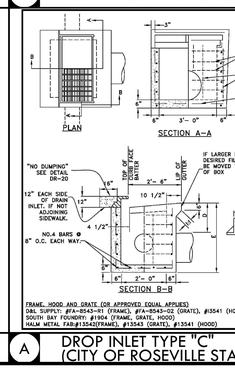
60"+ SEWER TRUNK MAIN MANHOLE

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

SS-10

B — DROP INLET IN LANDSCAPE AREAS

NTS



NOTES:
1. DIMENSIONS D AND E MAY VARY WITH EACH INSTALLATION.
2. SEE STANDARD DETAIL DR-9 FOR INLET GRATE.
3. THE INSIDE SURFACE OF FRONT AND BACK WALLS OF THE CATCH BASIN SHALL NOT DEVIATE MORE THEN 2" IN ALIGNMENT FROM INSIDE SURFACE OF THE WALLS OF THE TOP INLET PORTION.
4. SLOPE FLOOR 2" TO OUTLET.
5. CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.
6. SIDE & GUARD WELDED WIRE FABRIC MAY BE USED IN LIEU OF #4 REBAR.
7. ALL REINFORCEMENT BAR SHALL BE GRADE 60.
8. CURB TRANSITION LENGTH FROM EACH SIDE OF DROP INLET TO STANDARD HEIGHT CURB SHALL BE 4', MATCH DEEP TOOL JOINTS AND SCORE PATTERN OF CURB, GUTTER, AND SIDEWALK AS APPROPRIATE.
10. PIPE CONNECTIONS TO STRUCTURE SHALL BE MADE BY 12"X12" MINOR CONCRETE COLLARS.

MARC STOUT
CITY ENGINEER

CITY OF ROSEVILLE DEVELOPMENT SERVICES DEPARTMENT

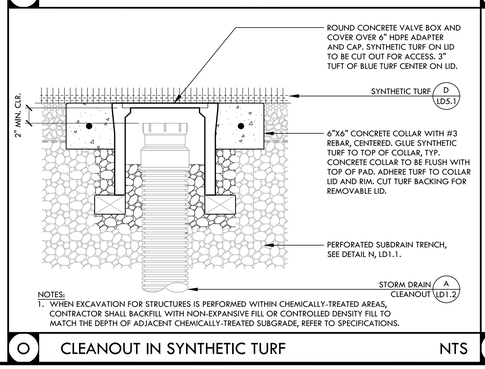
DROP INLET TYPE "C"

SCALE: NONE
REVISED: May 10, 2021
DRAWN BY: R MEDINA
APPROVED BY: MARC STOUT

DR-1

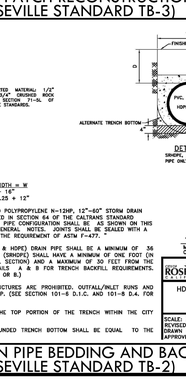
P — CLEANOUT IN LANDSCAPE PLANTER

NTS



K — DEEP CUT "T" PATCH RECONSTRUCTION IN ASPHALT (CITY OF ROSEVILLE STANDARD TB-3)

NTS



NOTES:
1. 18 INCH KEY OUTSIDE TRENCH LINE
2. COAT ALL EXISTING VERTICAL FACES WITH ASPHALTIC EMULSION (TACK) PRIOR TO PAVING
3. EXISTING PAVING
4. PATCH SHALL BE THICKNESS OF EXISTING SECTION PLUS 2 1/2 INCHES. PER CITY TRENCH CUT ORDINANCE (6 INCH MINIMUM THICKNESS).
5. AGGREGATE BASE/SUBBASE: RECOMPACT DISTURBED SURFACE AREAS TO 95%.
6. TWO FEET OF TWO SACK CONCRETE SLURRY PER CALTRANS STANDARD SPECIFICATION 19-3.062
7. NATIVE SOIL
8. NATIVE SOIL TO BE PROCESSED TO 90% RELATIVE COMPACTION.
9. FOR PIPE EMBEDMENT, SEE THE FOLLOWING CONDITIONS:
   a. TB-2 FOR PLASTIC STORM DRAIN PIPE
   b. W-1 FOR WATER PIPE
   c. SS-1 FOR WASTE WATER PIPE
   d. FOR REINFORCED CONCRETE PIPE, PLACE 1/2 OR 3/4 INCH CRUSHED ROCK UP TO SPRING LINE WITH A MINIMUM OF FOUR INCHES OF BEDDING BELOW PIPE. MAINTAIN A MINIMUM OF SIX INCHES OF CLEARANCE BETWEEN THE PIPE AND THE TRENCH WALL.
10. ALTERNATE TRENCH BOTTOM. THE DIAMETER OF THE ALTERNATE, ROUNDED TRENCH BOTTOM SHALL EQUAL THE WIDTH OF THE TRENCH.

NOTE: THIS DETAIL APPLIES TO UTILITY TRENCHES IN WHICH TRENCH CUT FEES WERE NOT PAID BY THE APPLICANT, OR AS SPECIFIED BY THE ENGINEER.

JASON SHYKOWSKI
PUBLIC WORKS DIRECTOR

CITY OF ROSEVILLE DEPARTMENT OF PUBLIC WORKS

DEEP CUT "T" PATCH RECONSTRUCTION ASPHALT STREETS

SCALE: NONE
REVISED: FEBRUARY 2021
DRAWN BY: R MEDINA
APPROVED BY: JASON SHYKOWSKI

TB-3

O — CLEANOUT IN SYNTHETIC TURF

NTS

NOTES:
1. WHEN EXCAVATION FOR STRUCTURES IS PERFORMED WITHIN CHEMICALLY-TREATED AREAS, CONTRACTOR SHALL BACKFILL WITH NON-EXPANSIVE FILL OR CONTROLLED DENSITY FILL TO MATCH THE DEPTH OF ADJACENT CHEMICALLY-TREATED SUBGRADE, REFER TO SPECIFICATIONS.

J — STORM DRAIN PIPE BEDDING AND BACKFILL (CITY OF ROSEVILLE STANDARD TB-2)

NTS

NOTES:
1. TRENCH WIDTH:

PIPE SIZE	TRENCH WIDTH = W
30" AND UNDER	O.D. + 16"
OVER 30"	O.D. x 1.25 + 12"

2. HIGH DENSITY POLYETHYLENE (HDPE) AND POLYPROPYLENE 9"-12MB, 12"-60" STORM DRAIN PIPE SHALL BE TYPE "S" AS DESCRIBED IN SECTION 64 OF THE CALTRANS STANDARD SPECIFICATIONS. PIPE INSTALLATION AND PIPE CONFIGURATION SHALL BE AS SHOWN ON THIS DRAWING AND AS DESCRIBED IN THESE GENERAL NOTES. JOINTS SHALL BE SEALED WITH A RUBBER GASKET. GASKETS SHALL MEET THE REQUIREMENT OF ASTM F-477. "
3. FILL HEIGHTS "D" FOR NONRIGID (PVS & HDPE) DRAIN PIPE SHALL BE A MINIMUM OF 36 INCH AND A MAXIMUM OF 15 FEET, AND (SRHDPE) SHALL HAVE A MINIMUM OF ONE FOOT (IN ADDITION TO THE ROADWAY STRUCTURAL SECTION) AND A MAXIMUM OF 50 FEET FROM THE TOP OF PIPE FINISH GRADE. (SEE DETAILS A & B FOR TRENCH BACKFILL REQUIREMENTS. CONTRACTOR MAY USE EITHER DETAIL A OR B.)
4. PIPE MATERIAL CHANGES BETWEEN STRUCTURES ARE PROHIBITED. OUTFALL/INLET RUNS AND STUBS INTO FUTURE SITES SHALL BE RCP. (SEE SECTION 101-8 D.1.C. AND 101-8 D.4. FOR CONCRETE PIPE APPLICATION.)
5. REFER TO TB-1 FOR TREATMENT OF THE TOP PORTION OF THE TRENCH WITHIN THE CITY STREET.
6. THE DIAMETER OF THE ALTERMATE, ROUNDED TRENCH BOTTOM SHALL BE EQUAL TO THE WIDTH OF THE TRENCH.

MARC STOUT
CITY ENGINEER

CITY OF ROSEVILLE DEVELOPMENT SERVICES DEPARTMENT

HDPE, SRHDPE PVC STORM DRAIN PIPE ONLY (NONRIGID) BEDDING AND BACKFILL

SCALE: NONE
REVISED: JANUARY 1, 2020
DRAWN BY: R MEDINA
APPROVED BY: MARC STOUT

TB-2

E — 60"+ SEWER TRUNK MAIN MANHOLE (CITY OF ROSEVILLE STANDARD SS-10)

NTS

A — DROP INLET TYPE "C" (CITY OF ROSEVILLE STANDARD DR-1)

NTS

NOTES
1. SET CATCH BASIN RIM FLUSH WITH ADJACENT SURFACE. VERIFY EXACT LOCATION AND RIM PRIOR TO INSTALLATION.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
4. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
5. ALL GRATES SHALL BE FITTED WITH LOCK-DOWN MECHANISMS OR BOLT-DOWN COVERS.

DRAWN BY | CHECKED BY

DATE ISSUED: 04/29/2022 | SCALE: NTS

PROJ. NO.: 2103800

SHEET NO.: LD1.1

VERDE DESIGN
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fax: 916.413.6525
www.VerdeDesignInc.com

STAMP

CONSULTANT

SHEET TITLE
DRAINAGE AND UTILITY DETAILS

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

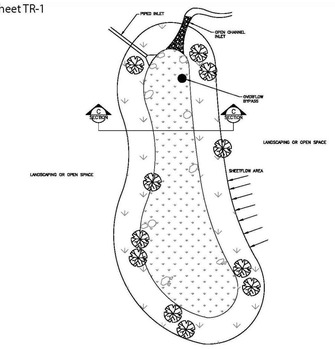
NO.	REVISIONS	DATE

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN AND WERE CREATED, EVOLVED AND DEVELOPED FOR USE ON AND IS CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER.

DRAWING NAME: Y:\Projects-FO\2021\2103800 – Roseville 6 Soccer Complex\CAD_\LD1 DTL

Fact Sheet TR-1

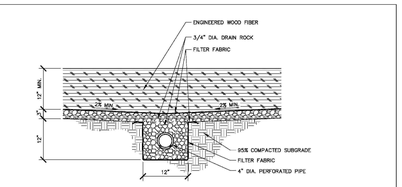
DESIGN DETAILS



BIORETENTION IN LANDSCAPE OR OPEN SPACE AREAS
Plan and Section Views

DRAWING NOT TO SCALE
Source: Adapted from City of Salinas

J



NOTES
1. PERFORATED PIPE SHALL BE LAID IN A HERRINGBONE PATTERN AND CONNECTED TO A DRAIN INLET.
2. LOCATE ALL CLEAN OUTS OUTSIDE PLAY AREA WITHIN PLANTING/TURF AREAS.

JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

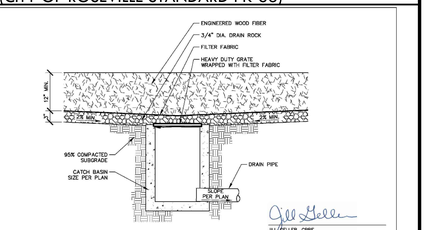
CITY OF ROSEVILLE — PARKS, RECREATION, & LIBRARIES DEPARTMENT

PLAY AREA
PERFORATED PIPE DRAIN

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK-38

E PLAY AREA PERFORATED PIPE DRAIN (CITY OF ROSEVILLE STANDARD PK-38) NTS



JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

CITY OF ROSEVILLE — PARKS, RECREATION, & LIBRARIES DEPARTMENT

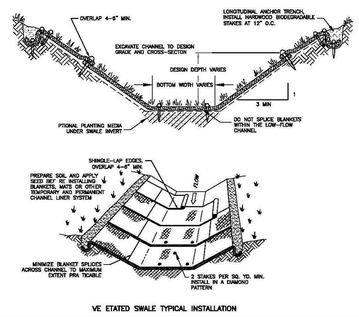
PLAY AREA
DRAIN

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK-37

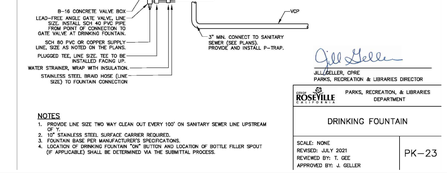
D PLAY AREA DRAIN (CITY OF ROSEVILLE STANDARD PK-37) NTS

I BIORETENTION IN LANDSCAPE OR OPEN SPACE AREAS (WEST PLACER STORMWATER QUALITY DESIGN MANUAL)



VE ETATED SWALE TYPICAL INSTALLATION

H VEGETATED SWALE TYPICAL INSTALLATION (WEST PLACER STORMWATER QUALITY DESIGN MANUAL) NTS



NOTES
1. PROVIDE LINE SIZE TWO WAY CLEAN OUT EVERY 100' ON SANITARY SEWER LINE UPSTREAM OF P-TRAP.
2. 10" STAINLESS STEEL SURFACE CARRIER REQUIRED.
3. FOUNTAIN BASE PER MANUFACTURER'S SPECIFICATIONS.
4. LOCATION OF DRINKING FOUNTAIN "ON" BUTTON AND LOCATION OF BOTTLE FILLER SPOUT (IF APPLICABLE) SHALL BE DETERMINED VIA THE SUBMITTAL PROCESS.

JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

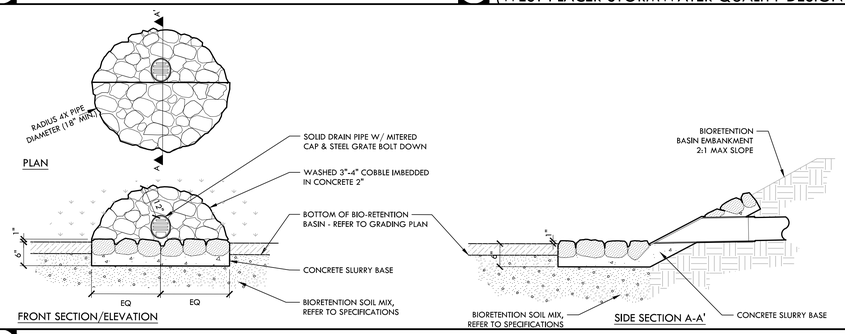
CITY OF ROSEVILLE — PARKS, RECREATION, & LIBRARIES DEPARTMENT

DRINKING FOUNTAIN

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK-23

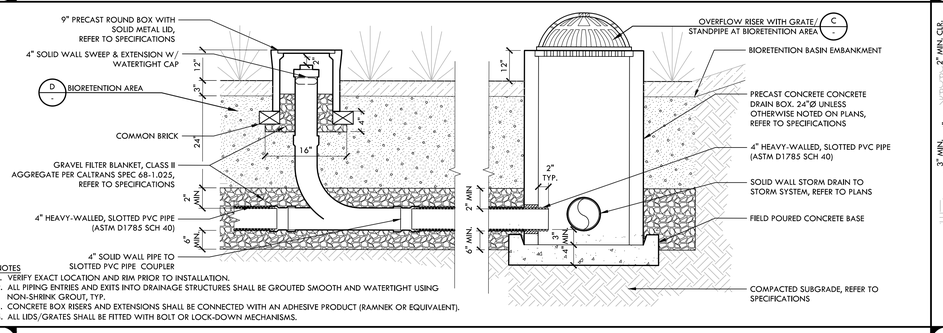
C DRINKING FOUNTAIN (CITY OF ROSEVILLE STANDARD PK-23) NTS



N

G COBBLE ENERGY DISSIPATOR NTS

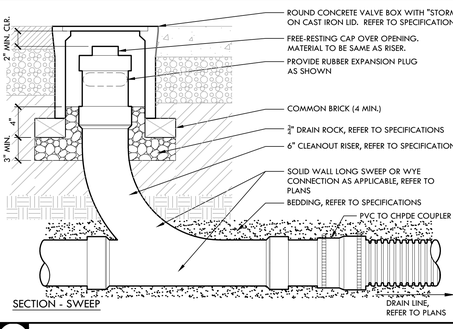
B DOWNSPOUT CONNECTION NTS



NOTES
1. VERIFY EXACT LOCATION AND RIM PRIOR TO INSTALLATION.
2. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
3. CONCRETE BOX RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
4. ALL LIDS/GRATES SHALL BE FITTED WITH BOLT OR LOCK-DOWN MECHANISMS.

M

F INFILTRATION TRENCH AT BIORETENTION AREA NTS



A STORM DRAIN CLEANOUT

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

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CONSULTANT

SHEET TITLE
DRAINAGE AND UTILITY DETAILS

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY

DATE ISSUED: 04/29/2022 | SCALE: NTS

PROJ. NO.: 2103800

SHEET NO.: LD1.2

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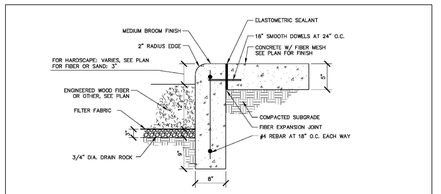
DRAWING NAME: V:\Projects-FY\2021\2103800 - Roseville 6 Soccer Complex\CAD_LD1 DTL.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station49



JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

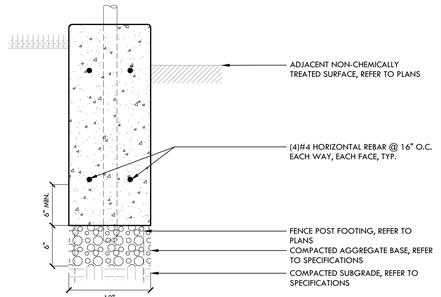
CITY OF ROSEVILLE — PARKS, RECREATION, & LIBRARIES DEPARTMENT

PLAY AREA
CONCRETE CURB

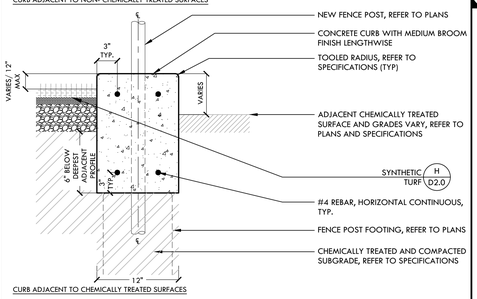
SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: J. GEE
APPROVED BY: J. GELLER

PK–36

NOTES
1. INSTALL TYPE 3 CONCRETE CURB AND CONCRETE PAVING. PROVIDE 18" SMOOTH DOWELS AT 24" O.C.
2. PROVIDE VERTICAL SCORE JOINTS (1" DEEP) AT HORIZONTAL SCORE LINES. ALIGN WITH SIDEWALK.

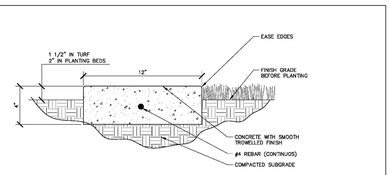


CURB ADJACENT TO NON- CHEMICALLY TREATED SURFACES



CURB ADJACENT TO CHEMICALLY TREATED SURFACES

NOTE:
1. REFER TO EDGEBAND AND TALL CURB NOTES, THIS SHEET, FOR ADDITIONAL INFORMATION
2. ON LANDSCAPE SIDE, ADJACENT SURFACE HEIGHT VARIES - 3" MAX ONLY. REFER TO GRADING PLAN.



JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

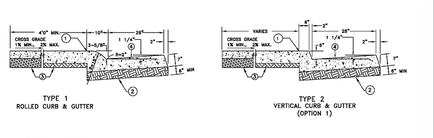
CITY OF ROSEVILLE — PARKS, RECREATION, & LIBRARIES DEPARTMENT

MOWBAND

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

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.



LEGEND:
1. SCORE MARK, 1/8" DEEP
2. NATIVE OR MINIMUM 4" AGGREGATE BASE UNDERNEATH CURB AND GUTTER.
3. ALL SIDEWALK HAS OPTION OF 4" CONCRETE ON 4" AGGREGATE BASE, IN LIEU OF 6" CONCRETE ON NATIVE.
4. GUTTER PAN CROSS SLOPE NOT TO EXCEED 5% MAX, OR BE LESS THAN 4%.

NOTES:
A. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.
B. SEE SECTION 71-4 C OF THE CITY CONSTRUCTION STANDARDS FOR FINISH AND JOINTS.
C. ALL ADJOINING SIDEWALK, CURB AND GUTTER SHALL BE POURED MONOLITHIC.
D. SUBGRADE AND/OR AGGREGATE BASE PROCESSED TO 95% RELATIVE COMPACTION.

MARC STOUT
CITY ENGINEER

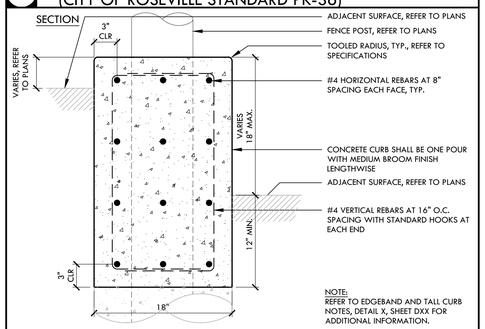
CITY OF ROSEVILLE — DEVELOPMENT SERVICES DEPARTMENT

TYPE 1 AND 2 CURB AND GUTTER WITH SIDEWALK

SCALE: NONE
REVISED: FEBRUARY 1, 2020
REVIEWED BY: J.P. HENDRIX
APPROVED BY: MARC STOUT

ST–17

O PLAY AREA CONCRETE CURB (CITY OF ROSEVILLE STANDARD PK-36) NTS



NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL X, SHEET DXX FOR ADDITIONAL INFORMATION.

H MOWBAND (CITY OF ROSEVILLE STANDARD PK-27) NTS

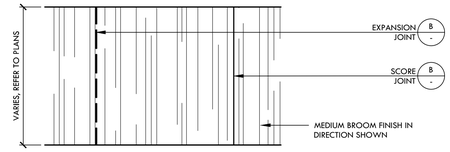
NOTES PERTAIN TO ALL EDGEBAND AND CURB DETAILS:
1. FOR EDGEBANDS AND CURBS WITH FENCING, INSTALL DOWELED COLD JOINTS AT ALL CORNERS, BEGINNINGS, AND ENDINGS OF RADII, AND AT ALL FENCE POSTS. INSTALL CONTROL JOINTS AT 5' O.C. AND OR EVENLY SPACED AND CENTERED BETWEEN POSTS.
2. FOR EDGEBAND AND CURBS WITHOUT FENCING, INSTALL CONTROL JOINTS AT 10' O.C. SPACING AND DOWELED COLD JOINTS EVERY 20' ON STRAIGHT RUNS. ON CURVED RUNS, DOWELED COLD JOINTS SHALL BE SPACED 10' O.C., WITH ALTERNATING CONTROL JOINTS AT 5' O.C. SPACING.
3. ALL DOWELED COLD JOINTS SHALL BE SEALED, PER SPECIFICATIONS.

NOTES PERTAIN TO ALL TALL CURB DETAILS:
1. PROVIDE DOWELED COLD JOINTS AT 16' O.C. SPACING, CENTERED BETWEEN FENCE POSTS.
2. PROVIDE DOWELED COLD JOINTS AT EACH LOCATION WHERE AN ELEVATION STEP OCCURS BETWEEN CHANGING CURB/EDGEBAND TYPES.
3. AT DOWELED COLD JOINTS, PROVIDE A 24" LONG #4 DOWEL AT EACH CURB HORIZONTAL REBAR, CENTERED ON THE JOINT, AS PER DETAIL.
4. DOWELED COLD JOINTS SHALL BE INSTALLED WITH A ½" CHAMFER BUILT INTO THE FORM WORK, IN ADDITION TO THE DOWELED COLD JOINT MATERIAL.
5. PROVIDE A CONTROL JOINT AT EACH FENCE POST. THE VERTICAL JOINT SHALL BE A ½" CHAMFER BUILT INTO THE FORM WORK. THE HORIZONTAL JOINT, ALONG THE TOP OF CURB, SHALL BE A TOOLED SCORE JOINT, ALIGNED WITH AND MATCHING THE VERTICAL CHAMFER JOINT.
6. ALL DOWELED COLD JOINTS SHALL BE SEALED PER SPECIFICATION.
7. NO CONTROL JOINTS ARE REQUIRED ON TALL CURBS, EXCEPT AS INDICATED AT EACH FENCE POST IN ITEM #5 ABOVE.

FINISHES:
EDGEBANDS AND CURBS: MEDIUM BROOM
WALL AND TALL CURBS: MEDIUM SAND BLAST - TOP AND SIDES

C CURB AND GUTTER (CITY OF ROSEVILLE STANDARD ST-17) NTS

PLAN



NOTE:
PROVIDE SCORE JOINTS 5' O.C. AND 10' O.C. FOR EXPANSION JOINT UNLESS OTHERWISE NOTED.

N 18" WIDE TALL CURB WITH FENCE NTS

EDGEBAND ADJACENT TO NON- CHEMICALLY TREATED SURFACES

EDGEBAND ADJACENT TO CHEMICALLY TREATED SURFACES

NOTE:
1. REFER TO EDGEBAND NOTES, ON SHEET D2.1, FOR ADDITIONAL INFORMATION
2. ON LANDSCAPE SIDE, ADJACENT SURFACE HEIGHT VARIES - 3" MAX ONLY. REFER TO GRADING PLAN.

K 12" CURB WITH FENCE NTS

NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, THIS SHEET FOR ADDITIONAL INFORMATION.

G EDGEBAND AND TALL CURB NOTES NTS

NOTES:
1. RIGHT OF WAY SHALL BE DEDICATED TO ACCOMMODATE DUAL LEFT TURNS AS SPECIFIED IN DESIGN STANDARDS DRAWING ST-10.
2. STOP BAR FOR LEFT TURN LANE SHALL BE TEN FEET BACK OF NEAR CROSSWALK STRIPE.
3. NOSE OF MEDIAN SHALL BE 15 FEET BACK OF NEAR CROSSWALK STRIPE.
4. STRIPING DETAIL NUMBERS REFERENCE CALTRANS STANDARDS.
5. SIGN DETAIL NUMBERS REFERENCE 2012 CALIFORNIA MUTCD.

MARC STOUT
CITY ENGINEER

CITY OF ROSEVILLE — DEVELOPMENT SERVICES DEPARTMENT

FOUR-LANE ARTERIAL SINGLE LEFT TURNS

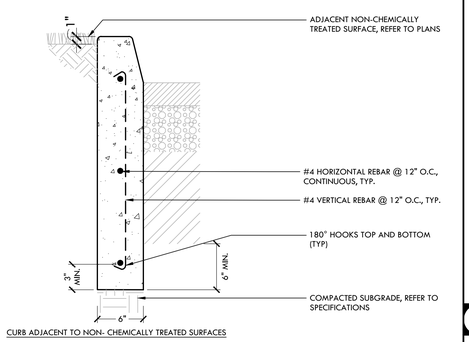
SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J MCKINLEY
APPROVED BY: MARC STOUT

ST–10

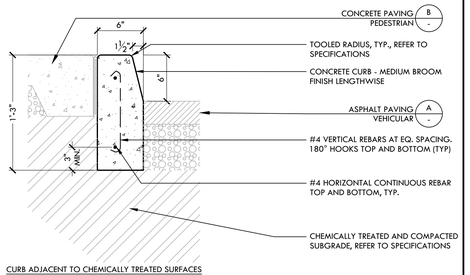
CONCRETE PAVING FINISH NTS

NOTE:
1. PROVIDE SCORE JOINTS 5' O.C. AND 10' O.C. FOR DOWELED COLD JOINT UNLESS OTHERWISE NOTED.

J 6" WIDE TALL CURB NTS



CURB ADJACENT TO NON- CHEMICALLY TREATED SURFACES

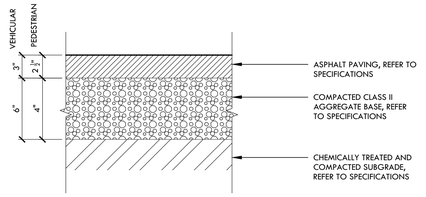


CURB ADJACENT TO CHEMICALLY TREATED SURFACES

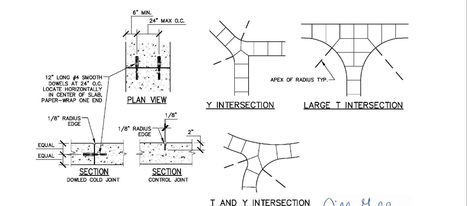
NOTE:
1. REFER TO EDGEBAND AND TALL CURB NOTES, THIS SHEET, FOR ADDITIONAL INFORMATION
2. WHEN LOCATED IN FIRE LANE CURB SHALL BE PAINTED RED PER SPECIFICATIONS

F FOUR-LANE ARTERIAL SINGLE LEFT TURNS (CITY OF ROSEVILLE STANDARD ST-10) NTS

SECTION



VEHICULAR CONCRETE PAVING NTS



JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

CITY OF ROSEVILLE — PARKS, RECREATION & LIBRARIES DEPARTMENT

CONTROL JOINTS

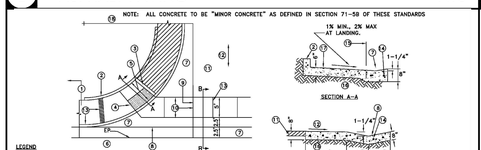
SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK–32

NOTES
1. CONTROL JOINTS SHALL NOT DIVIDE CONCRETE INTO SHAPES CONTAINING AN INTERIOR ANGLE OF 45 DEGREES OR LESS.
2. JOINTS SHALL BE SPACED EQUAL TO THE WIDTH OF THE PATH. EXAMPLE: A 10 FT. WIDE PATH SHALL HAVE JOINTS SPACED AT 10 FT. O.C.

E ASPHALT PAVING NTS

NOTE: ALL CONCRETE TO BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS



LEGEND
1. "TYPE 2"(ST-17) CURB AND GUTTER WITH SIDEWALK OUTSIDE DRIVEWAY AREA
2. RETAINING CURB AT BACK OF WALK, HEIGHT VARIES.
3. PLACE RAMP IF SIDEWALK EXTENDS ON SITE (CROSSHATCHED AREA); EXTEND RETAINING CURB IF NO ON-SITE SIDEWALK. (AT #3 ARROW)
4. CASE C RAMP WITH TRUNCATED DOME PANEL; NUMBER 4 LINE COINCIDES WITH BACK OF V GUTTER (TYP). SLOPE TOP OF CURB 1/2 INCH AT OPENING. NO LIP. SEE SECTION 71-4 C.4. (CONSTRUCTION STANDARDS).
5. LANDING DEPTH IS 8 FEET DEEP. TRANSITION TO ADJACENT WALK WIDTH FROM LANDING TO CURB RETURN.
6. STREET PAVING.
7. GUTTER 7 INCHES THICK PER SECTION B–B, SIDEWALK 6 INCHES PER SECTION A–A.
8. DRIVEWAY FLOW LINE.
9. PLACE GUTTER, WALKS AND CURBS MONOLITHICALLY. POUR MAY BE SEPARATED WITH COLD JOINT AT NUMBER 9 LINE.
10. "TOOL JOINT" SEE DETAIL ST-17.
11. PRIVATE PAVING PER APPROVED PLANS.
12. MAXIMUM GRADE OF 2%, MINIMUM GRADE OF 1%. THESE GRADE REQUIREMENTS SHALL EXTEND A MINIMUM OF 15 FEET BACK OF V-GUTTER.
13. PAINT MARKS, TYPICAL 1/8 INCH DEEP.
14. NO. 4 REBAR, 18 INCHES O.C. EACH WAY, 3 INCH DOBIES WITH WIRE TIES AT 3 FOOT INTERVALS, EACH WAY.
15. EXTENDED CURB FACE.
16. IN DRIVEWAY, CLASS B, 3/4 INCH AGGREGATE BASE OR NATIVE SUBGRADE; EITHER PROCESSED TO 95% RELATIVE COMPACTION. UNDER SIDEWALK, NATIVE SOIL, MINIMUM 9 INCH, PROCESSED TO 90% RELATIVE COMPACTION AGGREGATE BASE THICKNESS SHALL BE AT THE CONTRACTOR'S DISCRETION.
17. ALL SIDEWALK 1% MINIMUM, 2% MAXIMUM CROSS GRADE TOWARD STREET.
18. STANDARD RADIUS IS 20–FEET. WHERE DELIVERY TRUCKS WILL ACCESS DRIVEWAYS RADIUS WILL BE INCREASED TO 30–FEET.

MARC STOUT
CITY ENGINEER

CITY OF ROSEVILLE — DEVELOPMENT SERVICES DEPARTMENT

"TYPE A–7" DRIVEWAY

SCALE: NONE
REVISED: JANUARY 1, 2020
DRAWN BY: J MCKINLEY
APPROVED BY: MARC STOUT

ST–22

M 18" EDGEBAND NTS

NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL X, SHEET DXX FOR ADDITIONAL INFORMATION.

L 12" WIDE TALL CURB NTS

I 6" CURB NTS

CURB ADJACENT TO CHEMICALLY TREATED SURFACES

NOTE:
1. REFER TO EDGEBAND AND TALL CURB NOTES, THIS SHEET, FOR ADDITIONAL INFORMATION
2. WHEN LOCATED IN FIRE LANE CURB SHALL BE PAINTED RED PER SPECIFICATIONS

D "TYPE A-7" DRIVEWAY (CITY OF ROSEVILLE STANDARD ST-22) NTS

A CONCRETE PAVING (CITY OF ROSEVILLE STANDARD PK-31) NTS

JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

CITY OF ROSEVILLE — PARKS, RECREATION & LIBRARIES DEPARTMENT

CONCRETE PAVING

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK–31

NOTES
1. PROVIDE CONTROL JOINTS 2" DEEP AT INTERVALS THE WIDTH OF THE WALK.
2. CLASS "A" SIX SACK CONCRETE.
3. MEDIUM BROOM FINISH PERPENDICULAR TO PATH OF TRAVEL UNLESS OTHERWISE SPECIFIED.

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SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

CONSULTANT

SHEET TITLE
CONSTRUCTION DETAILS HARDSCAPE

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED: 04/29/2022	SCALE: NTS
PROJ. NO.: 2103800	
SHEET NO.: LD2.1	

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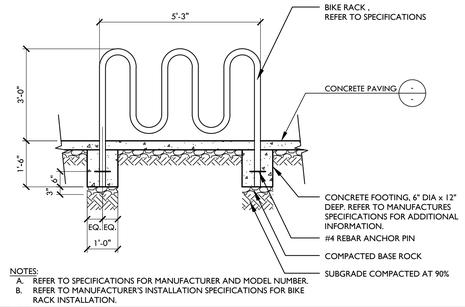
T

O

J

E BIKE RACK NTS



NOTES:
A. REFER TO SPECIFICATIONS FOR MANUFACTURER AND MODEL NUMBER.
B. REFER TO MANUFACTURER'S INSTALLATION SPECIFICATIONS FOR BIKE RACK INSTALLATION.

S

N

I

D PICNIC TABLE & BENCH INSTALLATION HEIGHTS (CITY OF ROSEVILLE STANDARD PK-24) NTS

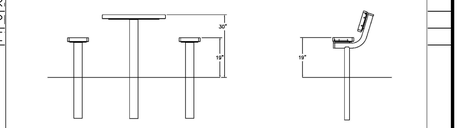


TABLE BENCH

NOTES
1. INSTALL FOOTINGS PER MANUFACTURERS RECOMMENDATIONS.
2. INSTALL PLUMB AND LEVEL.

JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

CITY OF ROSEVILLE — PARKS, RECREATION, & LIBRARIES DEPARTMENT

PICNIC TABLE AND BENCH INSTALLATION HEIGHTS

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

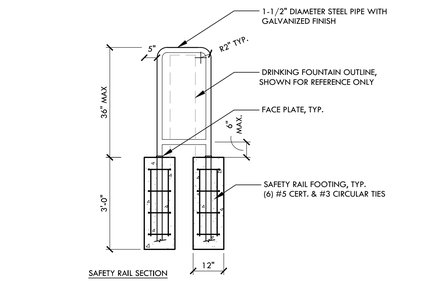
PK-24

R

M

H

C DRINKING FOUNTAIN RAIL NTS



SAFETY RAIL SECTION

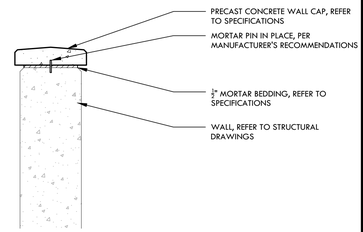
Q

L

G

B PRECAST CONCRETE WALL CAP NTS

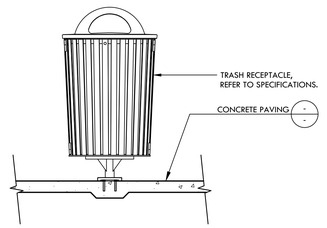
SECTION



P

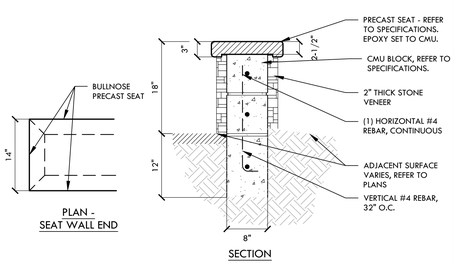
K

F TRASH RECEPTACLE NTS



NOTES:
A. REFER TO SPECIFICATIONS FOR MANUFACTURE AND MODEL NUMBER.
B. REFER TO MANUFACTURE'S SPECIFICATIONS FOR SURFACE MOUNTING AND DOME LID INSTALLATION.

A CMU SEAT WALL WITH STONE VENEER FACING AND CONCRETE CAP NTS



PLAN - SEAT WALL END

SECTION

NOTE:
SOLID FILL CMU WITH GROUT.

FILE NAME: _LD2 DTL.dwg | DATE DRAWN: XXX
DRAWN BY: XXX | DATE REVISED: XXX
APPROVED BY: XXX | DATE PLOTTED: XXX
DESIGNED BY: XXX

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

CONSULTANT

SHEET TITLE
CONSTRUCTION DETAILS SITE FURNISHINGS

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY
DATE ISSUED: 04/29/2022 | SCALE: NTS
PROJ. NO.: 2103800
SHEET NO.: LD2.2

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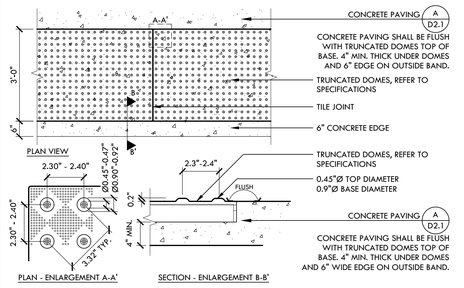
DRAWING NAME: V:\Projects-FY\2021\2103800 - Roseville 6 Soccer Complex\CAD_LD2 DTL.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station49



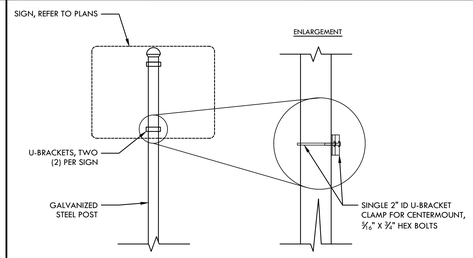
NOTE:
TRUNCATED DOMES, TYP. ACCORDING TO CALIFORNIA BUILDING CODES PER 11B-705.1.2.2 AND 11B-705.1.2.5 SHALL BE INSTALLED IN AREA WITH 36" WIDE DETECTABLE WARNING STRIP. REFER TO SPECIFICATIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

J TRUNCATED DOMES (RECESSED) NTS

SPECIFIC REQUIREMENTS FOR DETECTABLE WARNINGS SHALL BE AS FOLLOWS:

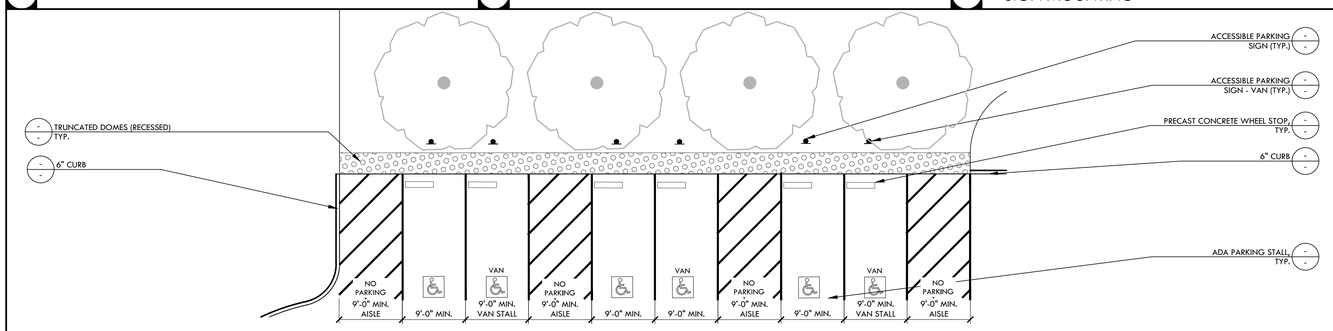
1. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A BASE DIAMETER OF 0.9 INCH (22.9 MM) MINIMUM AND 0.92 INCH (23.4 MM) MAXIMUM, A TOP DIAMETER OF 0.45 INCH (11.4 MM) MINIMUM AND 0.47 INCH (11.9 MM) MAXIMUM, AND A HEIGHT OF 0.2 INCH (5.1 MM).
2. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A CENTER-TO-CENTER SPACING OF 2.3 INCHES (58 MM) MINIMUM AND 2.4 INCHES (61 MM) MAXIMUM, AND A BASE-TO-BASE SPACING OF 0.65 INCH (16.5 MM) MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON A SQUARE GRID. EXCEPTION: WHERE INSTALLED IN A RADIAL PATTERN, TRUNCATED DOMES SHALL HAVE A CENTER-TO-CENTER SPACING OF 1.6 INCHES (41 MM) MINIMUM TO 2.4 INCHES (61 MM) MAXIMUM.
3. SURFACES AT TRANSIT BOARDING PLATFORM EDGES, BUS STOPS, HAZARDOUS VEHICULAR AREAS, REFLECTING POOLS, AND TRACK CROSSINGS SHALL COMPLY WITH SECTION 11B-705.1.1.3.1.
4. DETECTABLE WARNINGS AT OTHER LOCATIONS SHALL COMPLY WITH EITHER SECTION 11B-705.1.1.3.1 OR SECTION 11B-705.1.1.3.2. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE SURFACE.
5. 11B-705.1.1.3.1 DETECTABLE WARNING SURFACES SHALL BE YELLOW AND APPROXIMATE FS 33538 OF FEDERAL STANDARD 595C.
6. 11B-705.1.1.3.2 DETECTABLE WARNING SURFACES SHALL PROVIDE A 70 PERCENT MINIMUM VISUAL CONTRAST WITH ADJACENT WALKING SURFACES. CONTRAST IN PERCENT SHALL BE DETERMINED BY: CONTRAST PERCENT = [(B1-B2)/B1] × 100
WHERE B1 = LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER AREA AND B2 = LIGHT REFLECTANCE VALUE (LRV) OF THE DARKER AREA. EXCEPTION: WHERE THE DETECTABLE WARNING SURFACE DOES NOT PROVIDE A 70 PERCENT MINIMUM CONTRAST WITH ADJACENT WALKING SURFACES, A 1-INCH (25 MM) WIDE MINIMUM VISUALLY CONTRASTING SURFACE SHALL SEPARATE THE DETECTABLE WARNING FROM ADJACENT WALKING SURFACES. THE VISUALLY CONTRASTING SURFACE SHALL CONTRAST WITH BOTH THE DETECTABLE WARNING AND ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.
7. 11B-705.1.1.4 RESILIENCY. DETECTABLE WARNING SURFACES SHALL DIFFER FROM ADJOINING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.

I DETECTABLE WARNING SURFACE SPECIFIC REQUIREMENTS

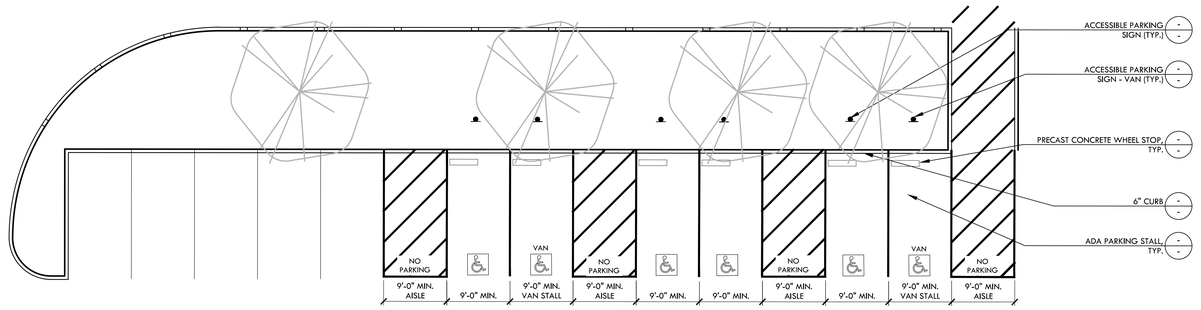


NOTES:
1. ALL FASTENERS AND HARDWARE TO BE GALVANIZED, UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO INSTALL SIGN TO FACE STREET OR AT RIGHT ANGLE TO WALKWAY.
3. HARDWARE TO BE ADJUSTED AS NECESSARY AS NOT TO OBSTRUCT OR BLOCK LANGUAGE ON FRONT OF SIGN.

H SIGN MOUNTING NTS

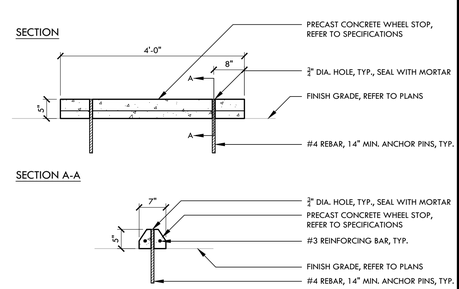


G ACCESSIBLE PARKING 2 NTS



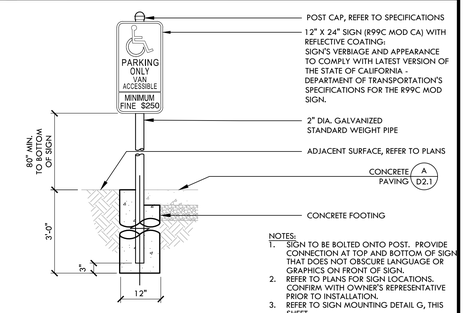
F ACCESSIBLE PARKING NTS

E PRECAST CONCRETE WHEEL STOP NTS



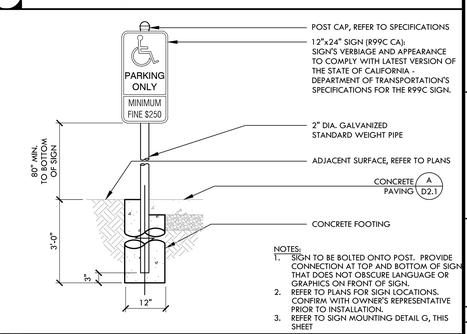
NOTE:
SHOP DRAWINGS REQUIRED FOR REVIEW AND APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO FABRICATION.

D PARKING TOW AWAY SIGN NTS



NOTES:
1. SIGN TO BE BOLTED ONTO POST. PROVIDE CONNECTION AT TOP AND BOTTOM OF SIGN THAT DOES NOT OBSCURE LANGUAGE OR GRAPHICS ON FRONT OF SIGN.
2. REFER TO PLANS FOR SIGN LOCATIONS. CONFIRM WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
3. CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE FOR CONTACT INFORMATION.
4. REFER TO SIGN MOUNTING DETAIL G, THIS SHEET

C ACCESSIBLE PARKING SIGN - VAN NTS



NOTES:
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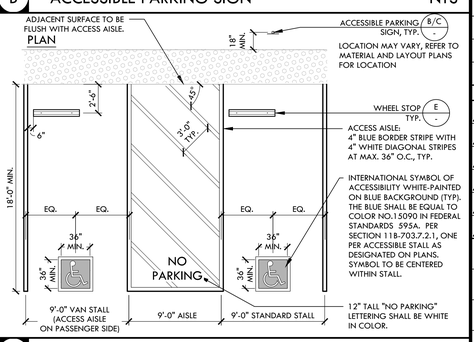
2. REFER TO PLANS FOR SIGN LOCATIONS. CONFIRM WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
3. REFER TO SIGN MOUNTING DETAIL G, THIS SHEET

B ACCESSIBLE PARKING SIGN NTS



A ADA PARKING STALL NTS

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SUBMITTAL	DATE
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DATE ISSUED: 04/29/2022
SCALE: NTS
PROJ. NO.: 2103800
SHEET NO.: LD3.1

ACCESSIBLE PARKING DETAILS

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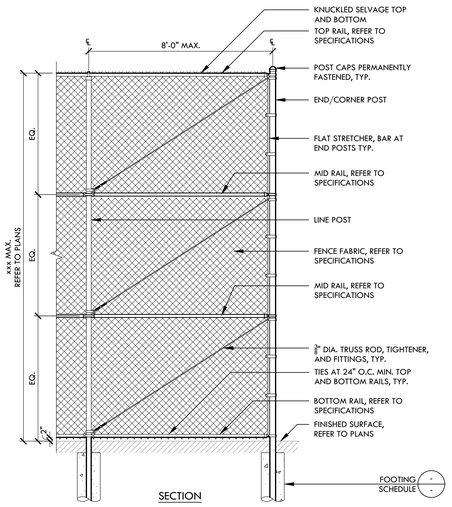
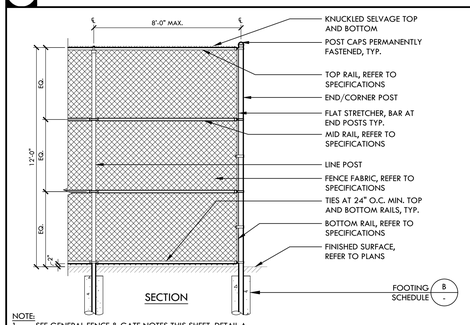
DRAWING NAME: V:\Projects-FY\2021\2103800 - Roseville 6 Soccer Complex\CAD_LD3-DTL.dwg
PLOT DATE: 04-28-22 PLOTTED BY: stotion49

M — 16' TALL CHAIN LINK FENCE — NTS



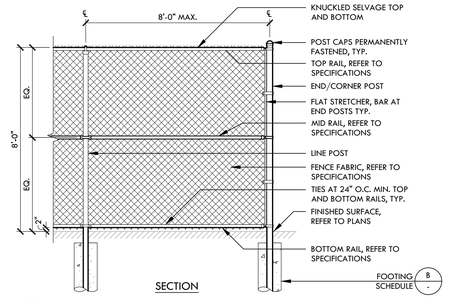
NOTE:
1. SEE GENERAL FENCE & GATE NOTES SHEET DX.X, DETAIL X.

L — 12' TALL CHAIN LINK FENCE — NTS



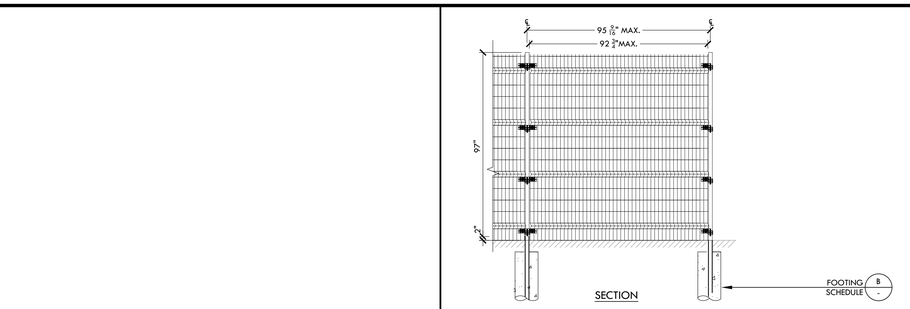
NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.

K — 12' TALL CHAIN LINK FENCE — NTS



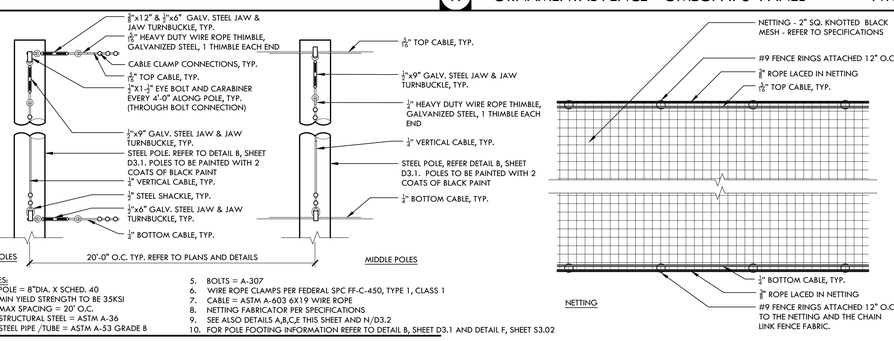
NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET, DETAIL A.

J — 8' TALL CHAIN LINK FENCE — NTS



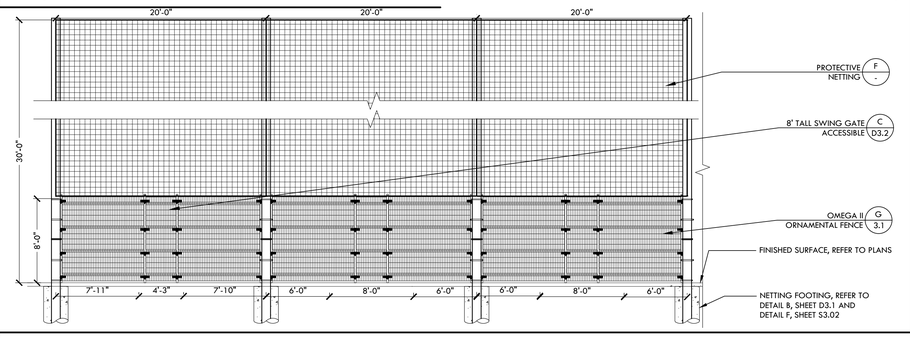
NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET , DETAIL B.

H — ORNAMENTAL FENCE - OMEGA II 8' PANEL — NTS

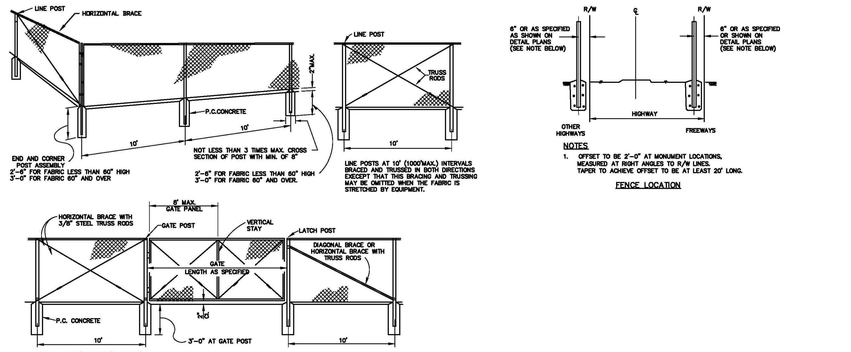


NOTES:
1. POLE = 8"DIA. X SCHED. 40 MIN YIELD STRENGTH TO BE 35KSI
2. MAX SPACING = 20' O.C.
3. STRUCTURAL STEEL = ASTM A-36
4. STEEL PIPE /TUBE = ASTM A-53 GRADE B
5. BOLTS = A-307
6. WIRE ROPE CLAMPS PER FEDERAL SPC FF-C-450, TYPE 1, CLASS 1
7. CABLE = ASTM A-603 6X19 WIRE ROPE
8. NETTING FABRICATOR PER SPECIFICATIONS
9. SEE ALSO DETAILS A,B,C,E THIS SHEET AND N/D3.2
10. FOR POLE FOOTING INFORMATION REFER TO DETAIL B, SHEET D3.1 AND DETAIL F, SHEET S3.02

G — PROTECTIVE NETTING — NTS



F — 22' PROTECTIVE NETTING OVER 8' OMEGA II ORNAMENTAL FENCE — NTS



TYPE CL-4=48" FABRIC (11 GAUGE)
TYPE CL-6=72" FABRIC (9 GAUGE)

NOTES:
1. OFFSET TO BE 2'-0" AT MONUMENT LOCATIONS, MEASURED AT RIGHT ANGLES TO R/W LINES. TAPER TO ACHIEVE OFFSET TO BE AT LEAST 20' LONG.

FENCE LOCATION

TYPICAL MEMBER DIMENSIONS

FENCE HEIGHT	LINE POSTS			END, LATCH & CORNER POSTS				BRACES			
	ROUND (O.D.)	H	ROLL FORMED	ROUND (O.D.)	ROLL FORMED			ROUND (O.D.)	H	ROLL FORMED	
6' AND LESS	1-1/2"	1-7/8" X 1-5/8"	1-3/4" X 1-3/4"	2"	3-1/2" X 3-1/2"	2" X 1-3/4"	1-1/4"	1-1/2"	1-5/16" X 1-1/4"	1-5/8" X 1-1/4"	1-3/4" X 1-1/4"
OVER 6'	2"	2-1/4" X 2"	2" X 1-3/4"	2-1/2"	3-1/2" X 3-1/2"	2" X 1-3/4"	1-1/4"	1-1/2"	1-5/16" X 1-5/16"	1-5/8" X 1-1/4"	1-3/4" X 1-1/4"

NOTES:
1. THE ABOVE TABLE SHOWS EXAMPLES OF POST AND BRACE SECTIONS WHICH MAY COMPLY WITH THE SPECIFICATIONS.
2. SECTIONS SHOWN IN THE TABLES MUST ALSO COMPLY WITH THE STRENGTH REQUIREMENTS AND OTHER PROVISIONS OF THE SPECIFICATIONS.
3. OTHER SECTIONS WHICH COMPLY WITH THE STRENGTH REQUIREMENTS AND OTHER PROVISIONS OF THE SPECIFICATIONS MAY BE USED ON APPROVAL OF THE ENGINEER.
4. OPTIONS EXERCISED SHALL BE UNIFORM ON ANY ONE PROJECT.
5. DIMENSIONS SHOWN ARE NOMINAL.

GATE POST

FENCE HEIGHT	GATE WIDTHS	NOMINAL I.D.	WEIGHT PER FOOT	FENCE HEIGHT	GATE WIDTHS	NOMINAL I.D.	WEIGHT PER FOOT
6'-0" AND LESS	UP THRU 6'	2-1/2"	4.95	OVER 6'	UP THRU 6'	3"	7.58
	OVER 6' THRU 12'	4"	10.79		OVER 6' THRU 12'	5"	14.62
	OVER 12' THRU 18'	5"	14.62		OVER 12' THRU 18'	6"	18.97
	OVER 18' TO 24' MAX.	6"	18.97		OVER 18' TO 24' MAX.	8"	28.55

NOTES:
1. ABOVE POST DIMENSIONS AND WEIGHTS ARE MINIMUMS. LARGER SIZES MAY BE USED ON APPROVAL OF ENGINEER.

E — CITY OF ROSEVILLE PK-40 CHAIN LINK FENCE — NTS

Jill Geller

JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

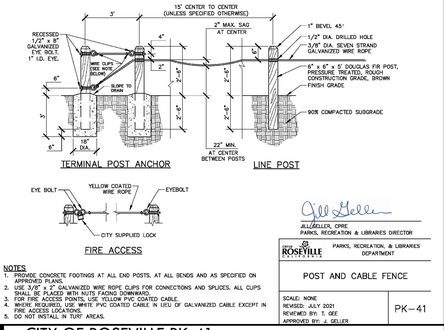
CITY OF ROSEVILLE CALIFORNIA
PARKS, RECREATION, & LIBRARIES DEPARTMENT

CHAIN LINK FENCE

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK-40

D — CITY OF ROSEVILLE PK-41 POST AND CABLE FENCE — NTS



NOTES
1. PROVIDE CONCRETE FOOTINGS AT ALL END POSTS. AT ALL BENDS AND AS SPECIFIED ON APPROVED PLANS.
2. USE 3/8" x 2" GALVANIZED WIRE ROPE CLIPS FOR CONNECTIONS AND SPLICES. ALL CLIPS SHALL BE PLACED WITH NUTS FACING DOWNWARD.
3. WHERE REQUIRED, USE WHITE PVC COATED CABLE IN LIEU OF GALVANIZED CABLE EXCEPT IN FIRE ACCESS LOCATIONS.
4. DO NOT INSTALL IN TURF AREAS.

Jill Geller

JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

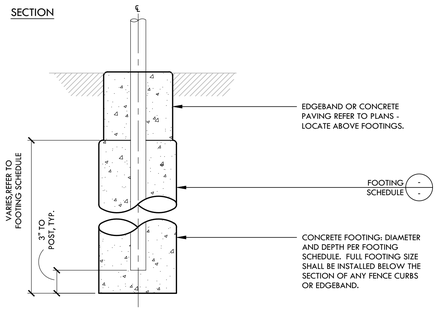
ROSEVILLE CALIFORNIA
PARKS, RECREATION, & LIBRARIES DEPARTMENT

POST AND CABLE FENCE

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK-41

C — FENCE FOOTING PROFILE — NTS



FENCE POST & FOOTING SCHEDULE

DESCRIPTION	HEIGHT	LINE POST (STD. GALV. PIPE)	CORNER/END POST (STD. GALV. PIPE)	FOOTING DIMENSIONS
CHAIN LINK FENCE	42"	2 ⅜" DIA. STD.	3" DIA. STD.	X" DIA. X XX' DEEP
CHAIN LINK FENCE	8'	2 ⅜" DIA. STD.	3" DIA. STD.	X" DIA. X XX' DEEP
CHAIN LINK FENCE	12'	2 ⅜" DIA. STD.	3" DIA. STD.	X" DIA. X XX' DEEP
CHAIN LINK FENCE	16'	2 ⅜" DIA. STD.	3" DIA. STD.	X" DIA. X XX' DEEP
ARCHITECTURAL FENCE OMEGA II	8'	-	-	X" DIA. X XX' DEEP
NETTING	22'	6" DIA. STD.	-	STRUCTURAL PLANS

GATE POST FOOTING SCHEDULE

DESCRIPTION	SIZE (H x L)	GATE POST (STD. GALV. PIPE)	FOOTING DIMENSIONS
CHAIN LINK DOUBLE SWING GATE	8' X 10'	3 ½" DIA. STD.	X" DIA. X X' DEEP
OMEGA II DOUBLE SWING GATE	8' X 10'	3 ½" DIA. STD.	X" DIA. X X' DEEP
OMEGA II SLIDING GATE	12' X 20'	3 ½" DIA. STD.	X" DIA. X X' DEEP

NOTES:
1. REFER TO PLANS & DETAILS FOR POST LOCATIONS AND TOP OF POST FOOTING.
2. REFER TO FENCE FOOTING DETAIL, DETAIL C, THIS SHEET
3. THE PIPE SIZES INDICATED ARE FOR NPS, REFER TO SPECIFICATIONS.

B — FOOTING SCHEDULE — NTS

NOTES PERTAIN TO ALL GATE AND FENCE DETAILS:

1. PLACE FENCE FABRIC ON TRACK SIDE. FENCE FABRIC ON PERIMETER FENCING IS TO BE ON FIELD SIDE.
2. BOTTOM RAIL TO BE 2" FROM FINISH GRADE, FENCE FABRIC BOTTOM EDGE TO BE 1" FROM FINISH GRADE.
3. SUBMIT SHOP DRAWINGS FOR ACCEPTANCE BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
4. GATES IN PATH OF TRAVEL MUST MEET ENTRY AND EXIT DOOR REQUIREMENTS.
5. FOR PEDESTRIAN GATE, PROVIDE LOCKING DEVICE TO SECURE GATE IN OPEN POSITION.
6. ALL PEDESTRIAN SWING GATES SHALL RECEIVE A GATE LOCK. REFER TO DETAIL X. PEDESTRIAN GATES ARE NOTED BY HAVING A KICK PLATE ATTACHMENT.
7. REFER TO PLANS FOR EDGEBAND TYPE UNLESS OTHERWISE NOTED.
8. REFER TO DETAIL X FOR FENCING WITH CURBS AND CHANGE IN ELEVATIONS.
9. FOR GATES WITH DROP BAR, PROVIDE 8" DEEP FOOTING WITH SCH. 40 STEEL PIPE SLEEVE. CANE STOP TO GO DOWN 4" INTO CONCRETE IN CLOSED POSITION AND OPEN POSITION.
10. TACK WELD HINGES TO POSTS AT GATES.
11. DOUBLE SWING GATES THAT ARE INLINE WITH FENCING, GATE POSTS SHALL BE OFFSET FROM THE FENCE TO ALLOW SWING GATES TO OPEN A FULL 180° BACK AGAINST THE FENCE PER PLAN LAYOUT.
12. THE PIPE SIZES INDICATED ARE NPS FOR: STANDARD GALV. PIPE SCHEDULE 40.

A — GATE AND FENCE NOTES — NTS

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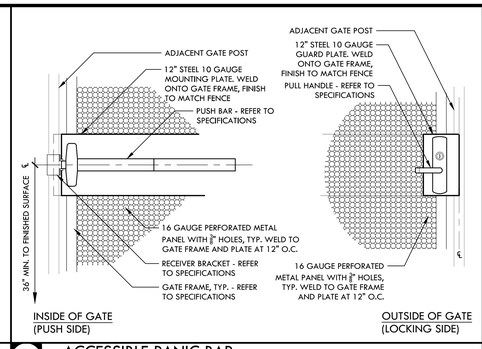
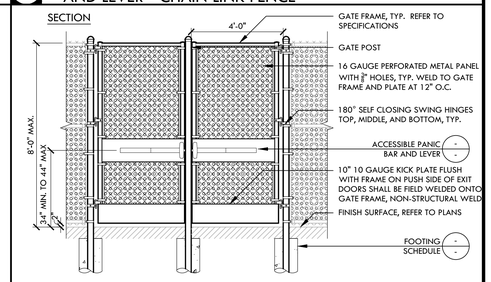


S

N

I

E ACCESSIBLE PANIC BAR AND LEVER - CHAIN LINK FENCE NTS



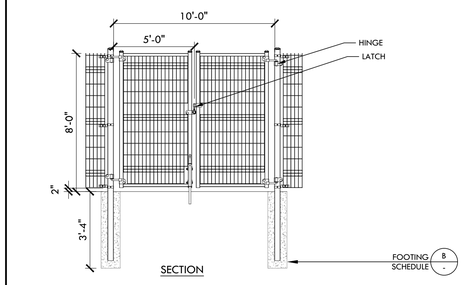
NOTE:
1. REFER TO GENERAL FENCE & GATE NOTES, DETAIL X, SHEET DX.X.

R

M

H

D 8' TALL X 4' SWING GATE WITH PANIC HARDWARE NTS



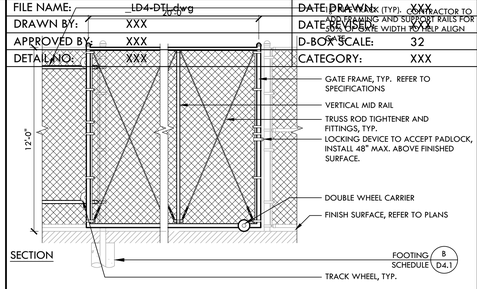
NOTE:
1. SEE GENERAL FENCE & GATE NOTES THIS SHEET , DETAIL B.

Q

L

G

C OMEGA II DOUBLE SWING GATE NTS



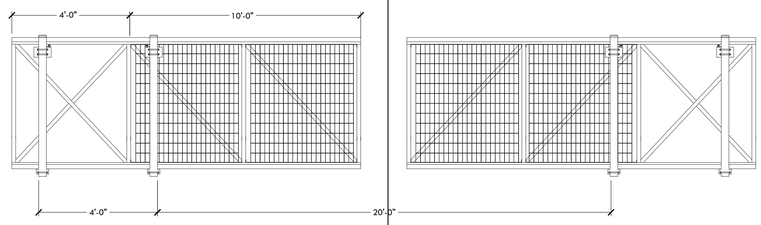
NOTE:
1. SEE GENERAL FENCE & GATE NOTE, SHEET D4.1, DETAIL A.
2. GATES, TRACK WHEEL RAILING AND TRUSS RODS TO BE CONSTRUCTED ON THE INSIDE OF FENCE FOR SECURITY.

P

K

F

B 12' TALL X 20' WIDE - SLIDING GATE NTS



O

J

A 20' WIDE ORNAMENTAL DOUBLE SLIDING GATE NTS

FILE NAME:	_LD4-DTL.dwg	DATE DRAWN:	XXX
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APPROVED BY:	XXX	D-BOX SCALE:	32
DETAIL NO.:	XXX	CATEGORY:	XXX

FILE NAME:	_LD4-DTL.dwg	DATE DRAWN:	XXX
DRAWN BY:	XXX	DATE REVISED:	XXX
APPROVED BY:	XXX	D-BOX SCALE:	32
DETAIL NO.:	XXX	CATEGORY:	XXX

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LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

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CONSULTANT

SHEET TITLE
FENCING DETAILS

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE NTS

PROJ. NO. 2103800

SHEET NO. LD4.2

FENCING DETAILS

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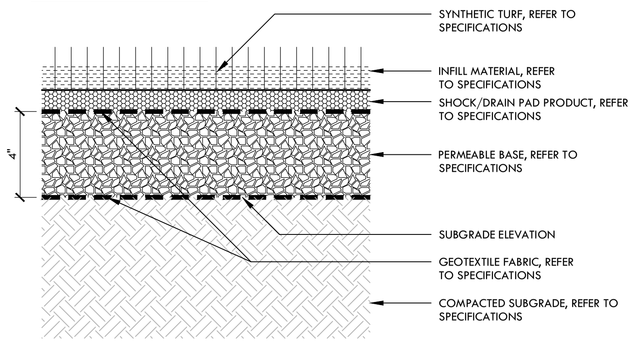
DRAWING NAME: Y:\Projects-FD\2021\2103800 - Roseville 6 Soccer Complex\CAD_LD4-DTL.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station49

NOTES PERTAIN TO ALL DETAILS WITH SYNTHETIC TURF:

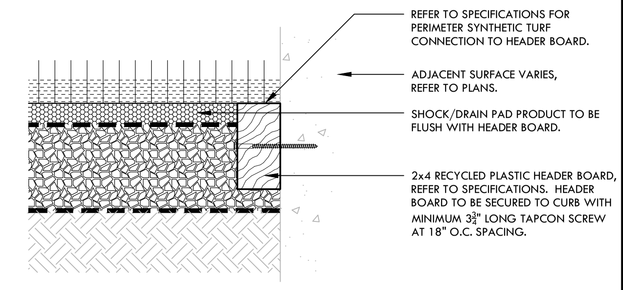
1. IDENTIFIED FINISH GRADES OF SYNTHETIC TURF SHALL BE THE TOP OF INFILL MATERIAL. INFILL MATERIAL SHALL BE ½" BELOW ADJACENT SURFACES UNLESS EDGE IS A VERTICAL CURB.
2. INFIELD FINES TO BE INSTALLED FLUSH WITH SYNTHETIC TURF INFILL LEVEL.
3. 70 X 120YD SOCCER FIELD STRIPING SHALL BE INLAID OR TUFTED 4" WIDE WHITE LINES.
4. 45 X 65 YD SOCCER FIELD STRIPING SHALL BE INLAID OR TUFTED 4" WIDE YELLOW LINES.
5. (GIRL LACROSSE) STRIPING SHALL BE INLAID OR TUFTED 4" WIDE BLUE LINES.
6. (BOYS LACROSSE) STRIPING SHALL BE INLAID OR TUFTED 4" WIDE RED LINES.
7. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE. ALL FIELD MARKINGS SHALL CONFORM TO CURRENT NFHS (NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS) AND C.I.F. (CALIFORNIA INTERSCHOLASTIC FEDERATION) GUIDELINES.
8. NO MANUFACTURER, CONTRACTOR OR VENDOR LOGOS ARE TO BE INSTALLED UNLESS SPECIFIED.
9. NO CUT OUTS IN TURF SHALL BE MADE UNLESS OTHERWISE NOTED AND ESPECIALLY NO CUT OUTS IN THE FIELD OF PLAY. QUICK COUPLERS ARE THE ONLY UTILITIES TO BE CUT THROUGH TURF. QUICK COUPLERS ARE LOCATED ON THE PERIMETER AND OUT OF THE FIELD OF PLAY AREAS.

P K F E SYNTHETIC TURF NOTES NTS

SYNTHETIC TURF SECTION



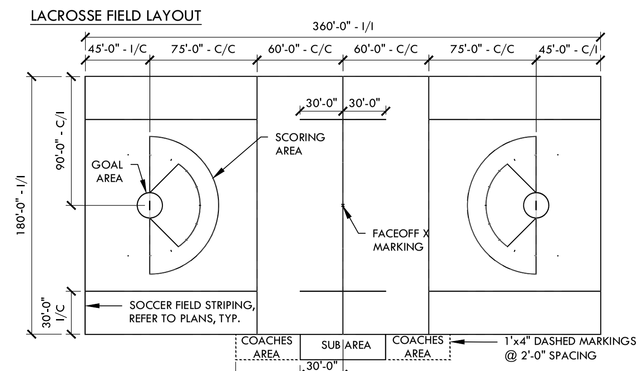
SYNTHETIC TURF CONNECTION

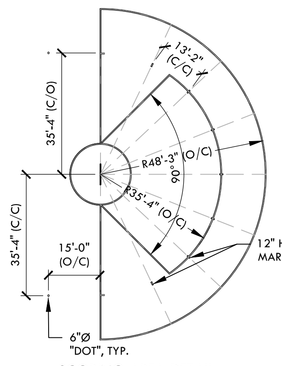


NOTE:
REFER TO SYNTHETIC TURF NOTES, DETAIL E, THIS SHEET.

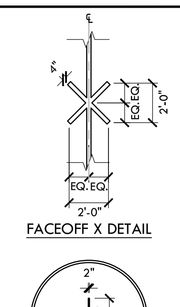
O J D SYNTHETIC TURF WITH SHOCK/DRAIN PAD NTS

LACROSSE FIELD LAYOUT





SCORING AREA DETAIL

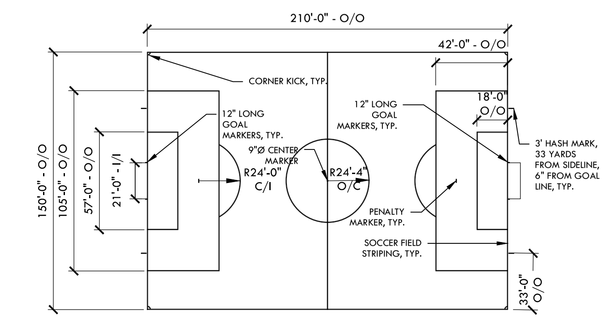


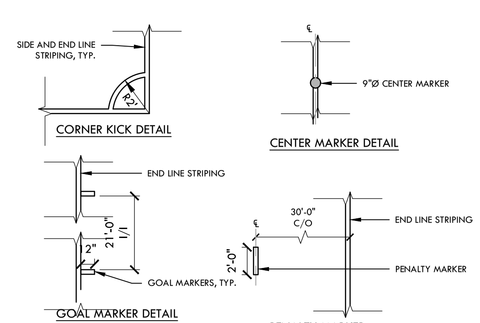
FACEOFF X DETAIL

GOAL AREA DETAIL

NOTES:
1. O/O = OUTSIDE OF LINE TO OUTSIDE OF LINE
2. O/I = OUTSIDE OF LINE TO INSIDE OF LINE
3. O/C = OUTSIDE LINE TO CENTER OF LINE
4. I/I = INSIDE OF LINE TO INSIDE OF LINE
5. C/I = CENTER OF LINE TO INSIDE OF LINE
6. C/C =CENTER OF LINE TO CENTER OF LINE
7. LACROSSE FIELD STRIPING SHALL BE INLAID OR TUFTED 4" WIDE BLUE LINES.
8. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE. ALL FIELD MARKINGS SHALL CONFORM TO CURRENT NFHS AND C.I.F. (CALIFORNIA INTERSCHOLASTIC FEDERATION) GUIDELINES.

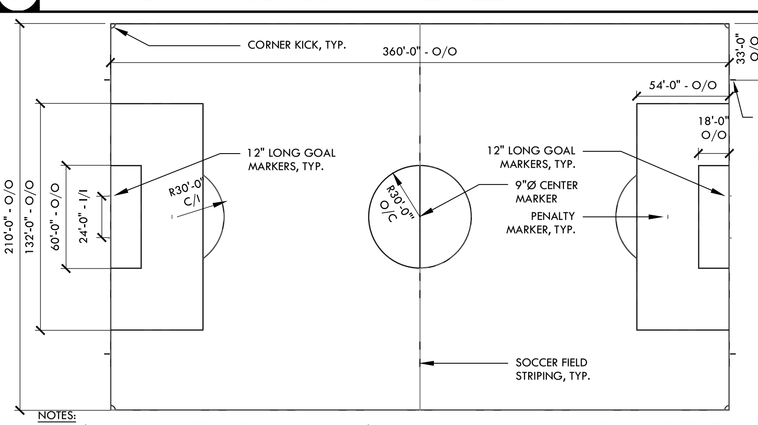
N I C LACROSSE FIELD STRIPING - UNIVERSAL (120 YD) NTS

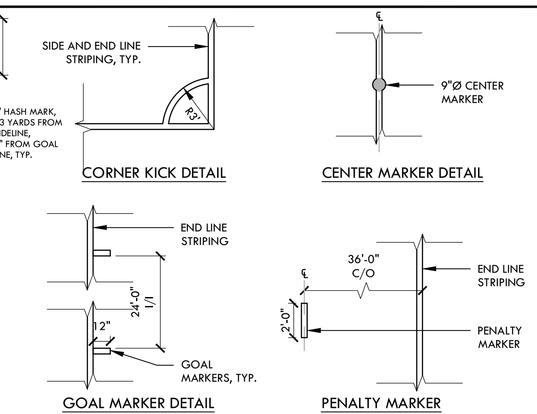




NOTES:
1. O/O = OUTSIDE OF LINE TO OUTSIDE OF LINE
2. O/I = OUTSIDE OF LINE TO INSIDE OF LINE
3. O/C = OUTSIDE OF LINE TO CENTER OF LINE
4. I/I = INSIDE OF LINE TO INSIDE OF LINE
5. I/C = INSIDE OF LINE TO CENTER OF LINE
6. C/C = CENTER OF LINE TO CENTER OF LINE
7. SOCCER FIELD STRIPING SHALL BE INLAID OR TUFTED 4" WIDE LINES. COLOR TO BE DETERMINED BY CITY.
8. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE.

M H B 50 YARD x 70 YARD YOUTH SOCCER FIELD STRIPING NTS





NOTES:
1. O/O = OUTSIDE OF LINE TO OUTSIDE OF LINE
2. O/I = OUTSIDE OF LINE TO INSIDE OF LINE
3. O/C = OUTSIDE OF LINE TO CENTER OF LINE
4. I/I = INSIDE OF LINE TO INSIDE OF LINE
5. I/C = INSIDE OF LINE TO CENTER OF LINE
6. C/C = CENTER OF LINE TO CENTER OF LINE
7. SOCCER FIELD STRIPING SHALL BE INLAID OR TUFTED 4" WIDE YELLOW LINES.
8. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE. ALL FIELD MARKINGS SHALL CONFORM TO CURRENT NCAA GUIDELINES.

L G A 70 YARD x 120 YARD SOCCER FIELD STRIPING NTS

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SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

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CONSULTANT

SHEET TITLE
ATHLETIC DETAILS

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED	SCALE
04/29/2022	NTS
PROJ. NO.	
2103800	
SHEET NO.	
LD5.1	

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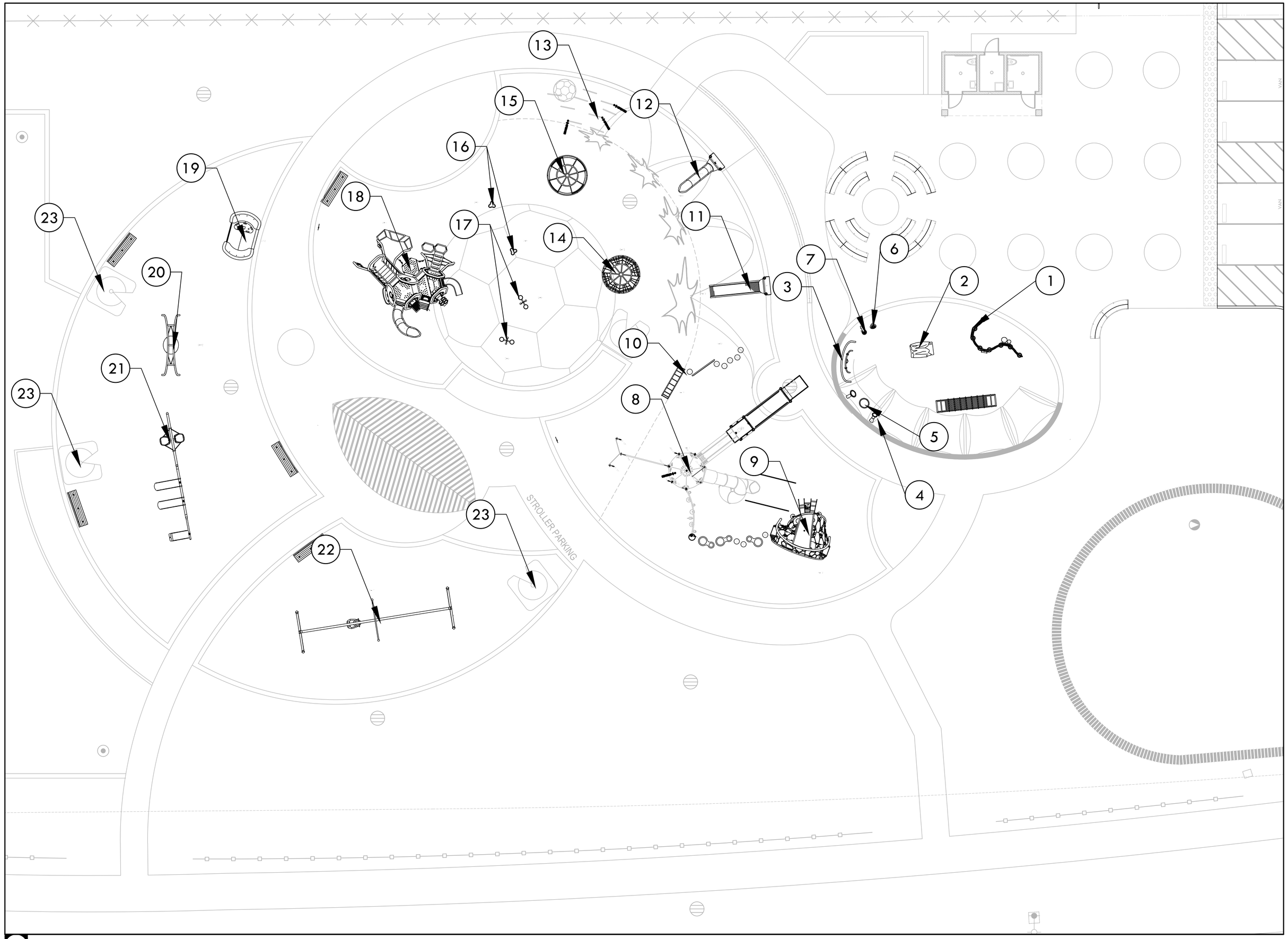
PLOT DATE: 04-28-22 PLOTTED BY: station49



A PLAY EQUIPMENT

SCALE: 1"=10'

PLAY EQUIPMENT LEGEND

SYM.	DESCRIPTION
1	SENSORY PLAY CENTER, BY LANDSCAPE STRUCTURES
2	LOG CRAWL TUNNEL, BY LANDSCAPE STRUCTURES
3	GRANDIOSO CHIMES, BY LANDSCAPE STRUCTURES
4	KUNDU DRUM, BY LANDSCAPE STRUCTURES
5	KETTLE DRUM, BY LANDSCAPE STRUCTURES
6	TONGUE DRUM, BY LANDSCAPE STRUCTURES
7	CASCATA BELLS, BY LANDSCAPE STRUCTURES
8	SUPER NETPLEX 12' TOWER, BY LANDSCAPE STRUCTURES
9	QUANTIS A.2 WITH WOBBLE POD BOUNCERS AND POD CLIMBERS LINKING TO SUPER NETPLEX TOWER, BY LANDSCAPE STRUCTURES
10	RAINBOW CLIMBER WITH POD CLIMBERS AND SPIDER WEB CLIMBER, BY LANDSCAPE STRUCTURES
11	56" ROLLERSLIDE ON HILL, BY LANDSCAPE STRUCTURES
12	HILL SLIDE, BY LANDSCAPE STRUCTURES
13	ARCHED CLIMBERS UP HILLSIDE, BY LANDSCAPE STRUCTURES
14	GLOBAL MOTION SPINNER, BY LANDSCAPE STRUCTURES
15	WE-GO-ROUND SPINNER, BY LANDSCAPE STRUCTURES
16	SADDLE SPINNER, , BY LANDSCAPE STRUCTURES
17	DOUBLE BOBBLE RIDER, BY LANDSCAPE STRUCTURES
18	HEDRA SCOUT, BY LANDSCAPE STRUCTURES
19	SWAY FUN, BY LANDSCAPE STRUCTURES
20	OODLE SWING, BY LANDSCAPE STRUCTURES
21	SINGLE POST SWING FRAME WITH FRIENDSHIP SWING, TWO BELT SWINGS, AND TODDLER SING ADD ON BEAM, BY LANDSCAPE STRUCTURES
22	ZIPKROOZ WITH BUCKET SEAT, BY LANDSCAPE STRUCTURES
23	SENSORY RELIEF HUTS

VERDE DESIGN
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SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
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REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2023
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
PLAY EQUIPMENT

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
DATE ISSUED 04/29/2022	SCALE NTS

PROJ. NO. 2103800

SHEET NO. LD5.2

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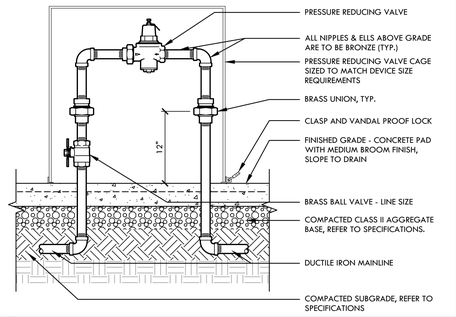
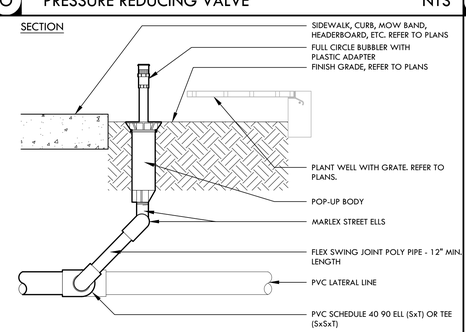
PLOT DATE: 04-29-22 PLOTTED BY: station46



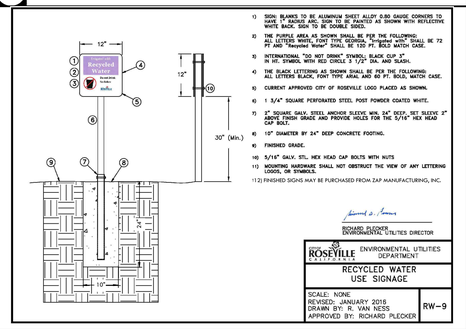
S

O PRESSURE REDUCING VALVE NTS



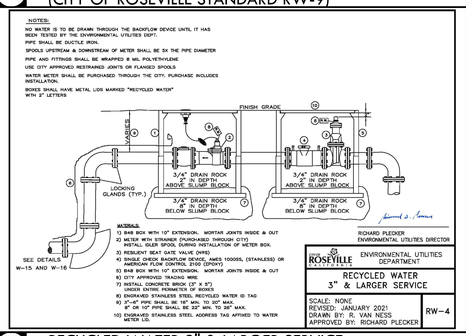
R

N POP UP BUBBLER NTS

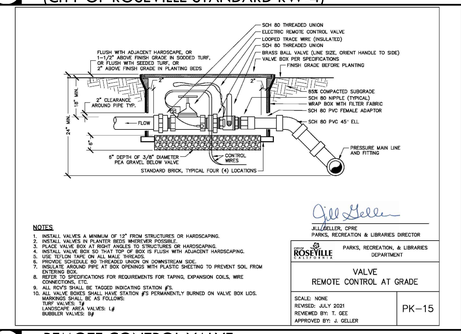


Q

M RECYCLED WATER USE SIGNAGE (CITY OF ROSEVILLE STANDARD RW-9) NTS



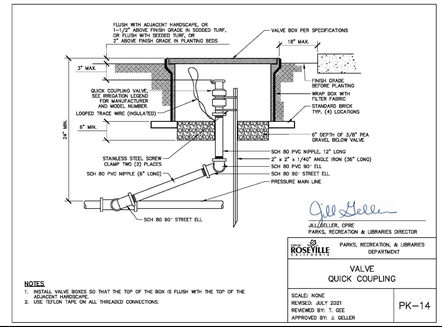
L RECYCLED WATER 3" & LARGER SERVICE (CITY OF ROSEVILLE STANDARD RW-4) NTS



K REMOTE CONTROL VALVE (CITY OF ROSEVILLE STANDARD PK-15) NTS

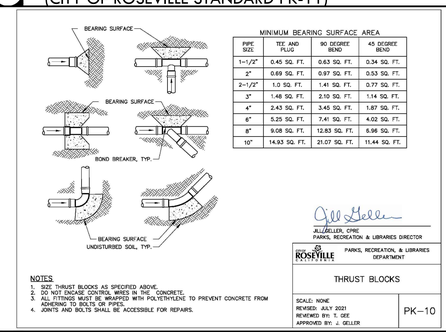
P **BOOSTER PUMP** NTS

J QUICK COUPLING VALVE (CITY OF ROSEVILLE STANDARD PK-14) NTS



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.

I VALVE 3" AND SMALLER (CITY OF ROSEVILLE STANDARD PK-11) NTS



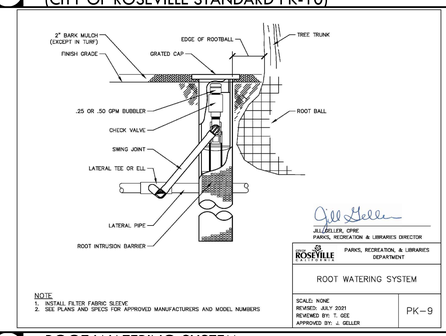
MINIMUM BEARING SURFACE AREA

PIPE SIZE	TEE AND PLUG	90 DEGREE BEND	45 DEGREE BEND
1-1/2"	0.45 SQ. FT.	0.63 SQ. FT.	0.34 SQ. FT.
2"	0.69 SQ. FT.	0.97 SQ. FT.	0.53 SQ. FT.
2-1/2"	1.0 SQ. FT.	1.41 SQ. FT.	0.77 SQ. FT.
3"	1.48 SQ. FT.	2.10 SQ. FT.	1.14 SQ. FT.
4"	2.43 SQ. FT.	3.45 SQ. FT.	1.87 SQ. FT.
6"	5.25 SQ. FT.	7.41 SQ. FT.	4.02 SQ. FT.
8"	9.08 SQ. FT.	12.83 SQ. FT.	5.96 SQ. FT.
10"	14.93 SQ. FT.	21.07 SQ. FT.	11.44 SQ. FT.

JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR
PARKS, RECREATION, & LIBRARIES DEPARTMENT
THRUST BLOCKS
SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER
PK-10

NOTES
1. SIZE THRUST BLOCKS AS SPECIFIED ABOVE.
2. DO NOT ENCASE CONTROL WIRES IN THE CONCRETE.
3. ALL FITTINGS MUST BE WRAPPED WITH POLYETHYLENE TO PREVENT CONCRETE FROM ADHERING TO BOLTS OR PIPES.
4. JOINTS AND BOLTS SHALL BE ACCESSIBLE FOR REPAIRS.

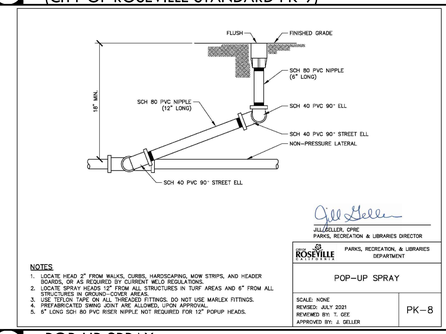
H THRUST BLOCKS (CITY OF ROSEVILLE STANDARD PK-10) NTS



NOTE
1. INSTALL FILTER FABRIC SLEEVE.
2. SEE PLANS AND SPECS FOR APPROVED MANUFACTURERS AND MODEL NUMBERS

JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR
PARKS, RECREATION, & LIBRARIES DEPARTMENT
ROOT WATERING SYSTEM
SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER
PK-9

G ROOT WATERING SYSTEM (CITY OF ROSEVILLE STANDARD PK-9) NTS

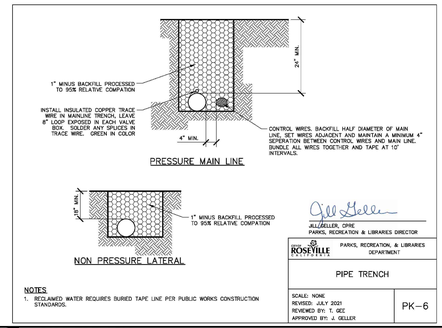


NOTES
1. LOCATE HEAD 3" FROM WALKS, CURBS, HARDSCAPING, MOW STRIPS, AND HEADER BOARDS, OR AS REQUIRED BY CURRENT WELO REGULATIONS.
2. LOCATE SPRAY HEADS 12" FROM ALL STRUCTURES IN TURF AREAS AND 6" FROM ALL STRUCTURES IN GROUND-COVER AREAS.
3. USE TEFLON TAPE ON ALL THREADED FITTINGS. DO NOT USE MARLEX FITTINGS.
4. PREFABRICATED SWING JOINT ARE ALLOWED, UPON APPROVAL.
5. 6" LONG SCH 80 PVC RISER NIPPLE NOT REQUIRED FOR 12" POPUP HEADS.

JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR
PARKS, RECREATION, & LIBRARIES DEPARTMENT
POP-UP SPRAY
SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER
PK-8

F POP-UP SPRAY (CITY OF ROSEVILLE STANDARD PK-8) NTS

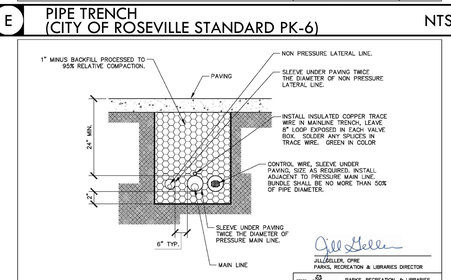
E PIPE TRENCH (CITY OF ROSEVILLE STANDARD PK-6) NTS



NOTES
1. RECLAIMED WATER REQUIRES BURIED TAPE LINE PER PUBLIC WORKS CONSTRUCTION STANDARDS.

JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR
PARKS, RECREATION, & LIBRARIES DEPARTMENT
PIPE TRENCH
SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER
PK-6

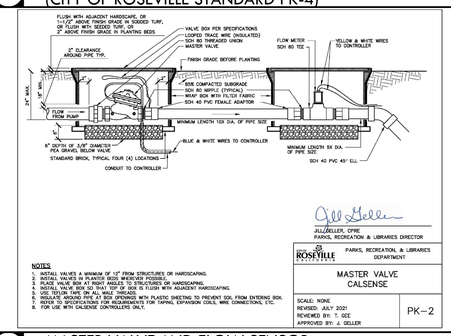
D PIPE AT PAVEMENT (CITY OF ROSEVILLE STANDARD PK-5) NTS



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

JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR
PARKS, RECREATION, & LIBRARIES DEPARTMENT
PIPE AT PAVEMENT
SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER
PK-5

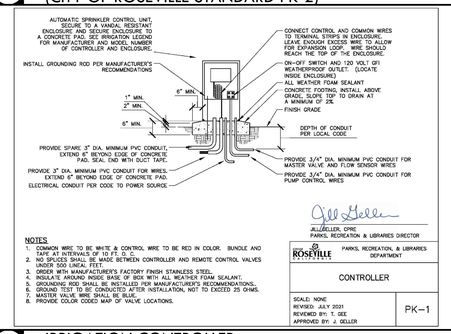
C RECYCLED WATER FILTER (CITY OF ROSEVILLE STANDARD PK-4) NTS



NOTES
1. USE TEFLON TAPE ON ALL THREADED FITTINGS.
2. LOCATE IN SHRUB/GROUNDCOVER AREA WHENEVER POSSIBLE.
3. PROVIDE INSULATING BLANKET OVER RECYCLED WATER FILTER.
4. PIPE AND FITTINGS 3" OR SMALLER SHALL BE BRASS; 4" OR LARGER SHALL BE DUCTILE IRON.
5. RECYCLED WATER STICKERS SHALL BE PURPLE AND SHALL READ "RECYCLED WATER – DO NOT DRINK"

JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR
PARKS, RECREATION, & LIBRARIES DEPARTMENT
RECYCLED WATER FILTER
SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER
PK-4

B MASTER VALVE AND FLOW SENSOR (CITY OF ROSEVILLE STANDARD PK-2) NTS



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. PROVIDE AS-BUILT DRAWINGS AFTER INSTALLATION; NOT TO EXCEED 25 GRAMS.
7. MASTER VALVE WIRE SHALL BE BLUE.
8. PROVIDE COLOR CODED MAP OF VALVE LOCATIONS.

JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR
PARKS, RECREATION, & LIBRARIES DEPARTMENT
CONTROLLER
SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER
PK-1

A IRRIGATION CONTROLLER (CITY OF ROSEVILLE STANDARD PK-1) NTS

TO BE REFINED

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DRAWING NAME: Y:\Projects-FD\2021\2103800 – Roseville 6 Soccer Complex\CAD_LD6-DTL.dwg
PLOT DATE: 04-28-22 PLOTTED BY: stolin49

FILE NAME:	DATE DRAWN:
DRAWN BY:	DATE REVISED:

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

CONSULTANT

SHEET TITLE
IRRIGATION AND PLANTING DETAILS

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

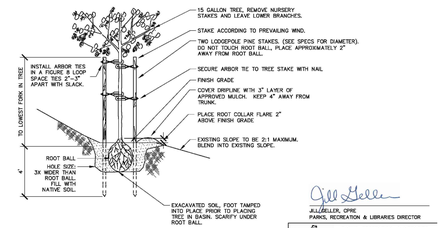
SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
DATE ISSUED: 04/29/2022	SCALE: NTS

PROJ. NO. 2103800

SHEET NO. LD6.1



JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

NOTES
1. SCORE ROOT BALL AND CUT GIRDLING ROOTS ON ALL FOUR SIDES OF ROOT BALL.
2. TREES FURNISHED IN #15 NURSERY CONTAINERS REQUIRE 2" DIA. STAKES. TREES LESS THAN 8' IN HEIGHT REQUIRE AN 8' STAKE. TREES 8' OR GREATER IN HEIGHT REQUIRE A 10' STAKE. TREES FURNISHED IN 24" BOXES REQUIRE 3" DIA. BY 10' LONG STAKES.
3. INSTALL 2 ARBOR TIES, AT 2/3 OF TREE HEIGHT AND 2 ARBOR TIES AT 1/2 OF TREE HEIGHT.
4. TREE STAKES SHOULD BE INSERTED INTO THE GROUND TO A MINIMUM DEPTH OF 18".
5. TREES TO BE STRUCTURALLY PRUNED BEFORE PLANTING. ESTABLISH CENTRAL LEADER AND REDUCE OR REMOVE CODOMINANT LEADERS.

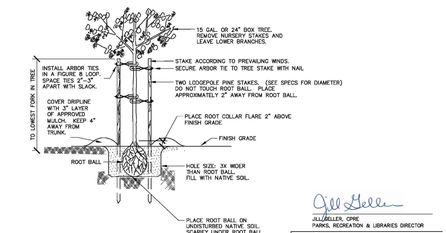
CITY OF ROSEVILLE — PARKS, RECREATION, & LIBRARIES DEPARTMENT

TREES ON SLOPES

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK–21

S — TREES ON SLOPES (CITY OF ROSEVILLE STANDARD PK-21) — NTS



JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

NOTES
1. SCORE ROOT BALL AND CUT GIRDLING ROOTS ON ALL FOUR SIDES OF ROOT BALL.
2. FOR LAWN AREAS: PROVIDE A 3' DIA. AREA FREE OF TURF.
3. TREES FURNISHED IN #15 NURSERY CONTAINERS REQUIRE 2" DIA. STAKES. TREES LESS THAN 8' IN HEIGHT REQUIRE AN 8' STAKE. TREES 8' OR GREATER IN HEIGHT REQUIRE A 10' STAKE. TREES FURNISHED IN 24" BOXES REQUIRE 3" DIA. BY 10' LONG STAKES.
4. INSTALL 2 ARBOR TIES, AT 2/3 OF TREE HEIGHT AND 2 ARBOR TIES AT 1/2 OF TREE HEIGHT.
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6. TREES TO BE STRUCTURALLY PRUNED BEFORE PLANTING. ESTABLISH A CENTRAL LEADER AND REDUCE OR REMOVE CODOMINANT LEADERS.

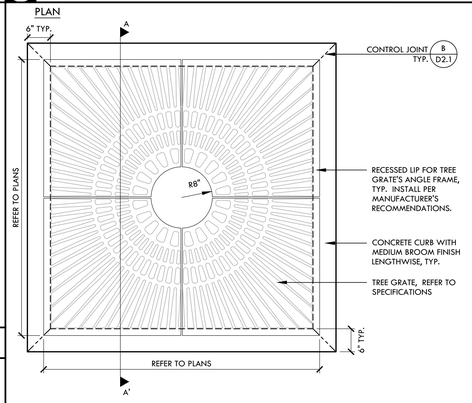
CITY OF ROSEVILLE — PARKS, RECREATION, & LIBRARIES DEPARTMENT

TREE PLANTING

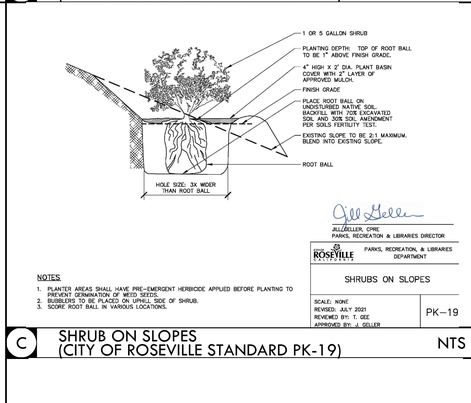
SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK–20

R — TREE PLANTING (CITY OF ROSEVILLE STANDARD PK-20) — NTS



M — H — PLANT WELL WITH GRATE — NTS



JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

NOTES
1. PLANTER AREAS SHALL HAVE PRE-EMERGENT HERBICIDE APPLIED BEFORE PLANTING TO PREVENT GERMINATION OF WEED SEEDS.
2. BUBBLERS TO BE PLACED ON UPHILL SIDE OF SHRUB.
3. SCORE ROOT BALL IN VARIOUS LOCATIONS.

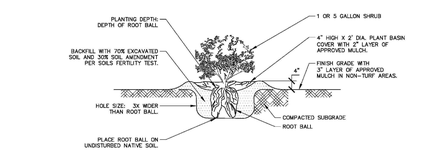
CITY OF ROSEVILLE — PARKS, RECREATION, & LIBRARIES DEPARTMENT

SHRUBS ON SLOPES

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK–19

Q — L — C — SHRUB ON SLOPES (CITY OF ROSEVILLE STANDARD PK-19) — NTS



JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

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.

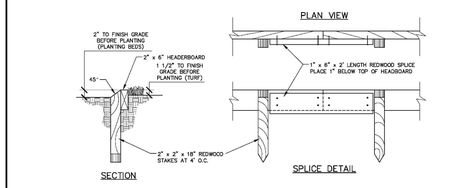
CITY OF ROSEVILLE — PARKS, RECREATION, & LIBRARIES DEPARTMENT

SHRUB PLANTING

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK–18

P — K — G — PLANT WELL WITH GRATE — NTS — B — SHRUB PLANTING (CITY OF ROSEVILLE STANDARD PK-18) — NTS



JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

NOTES
1. USE TWO 1" x 6" REDWOOD ON ALL CURVES (WHERE NECESSARY).
2. INSTALL ALL STAKES AND SPLICES ON PLANTING SIDE OF HEADER BOARD.
3. ALL NAILS SHALL BE GALVANIZED.
4. ALL LUMBER SHALL BE REDWOOD, ROUGH CONSTRUCTION HEART GRADE IN ACCORDANCE TO CALIFORNIA REDWOOD ASSOCIATION GRADING RULES.
5. UTILIZE ONLY AS APPROVED BY CITY. DO NOT USE IN TURF OR PLANTED AREAS.

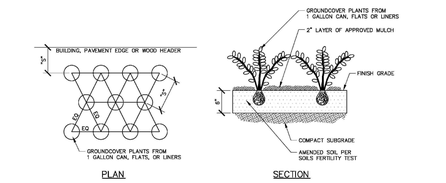
CITY OF ROSEVILLE — PARKS, RECREATION, & LIBRARIES DEPARTMENT

HEADER

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK–25

O — J — F — HEADER (CITY OF ROSEVILLE STANDARD PK-25) — NTS



JILL GELLER, CPRE
PARKS, RECREATION & LIBRARIES DIRECTOR

NOTES
1. "S" REFERS TO PLANT SPACING, SEE PLANT TABLE ON CONSTRUCTION DOCUMENTS.

CITY OF ROSEVILLE — PARKS, RECREATION, & LIBRARIES DEPARTMENT

GROUNDCOVER PLANTING

SCALE: NONE
REVISED: JULY 2021
REVIEWED BY: T. GEE
APPROVED BY: J. GELLER

PK–17

A — GROUNDCOVER PLANTING (CITY OF ROSEVILLE STANDARD PK-17) — NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

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CONSULTANT

SHEET TITLE
IRRIGATION AND PLANTING DETAILS

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
2600 WESTBROOK BLVD
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE

DRAWN BY | CHECKED BY
DATE ISSUED: 04/29/2022 | SCALE: NTS
PROJ. NO.: 2103800
SHEET NO.: LD6.2

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DRAWING NAME: N:\Projects-FY\2021\2103800 - Roseville 6 Soccer Complex\CAD_LD6-SITE.dwg
PLOT DATE: 04-28-22 PLOTTED BY: station49

ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(E)	EXISTING
(N)	NEW
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
CEC	CALIFORNIA ELECTRICAL CODE
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
EA	EACH
F	FUSE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FF	FINISH FLOOR
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LV	LOW VOLTAGE
M	MOTOR
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PB	PUSHBUTTON, PULLBOX
PH	PHASE
PNL	PANEL
PVC	POLY-VINYL-CHLORIDE
PWR	POWER
QTY	QUANTITY
REF	REFERENCE
REQD	REQUIRED
SPD	SURGE PROTECTION DEVICE
TTB	TELEPHONE TERMINAL BOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER

Connections / Equipment

- CONTACTOR COIL
- HEAVY DUTY FUSED DISCONNECT SWITCH
- J OR [J] JUNCTION BOX
- JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
- WALL-MOUNTED JUNCTION BOX
- MOTOR CONNECTION
- NON-FUSED DISCONNECT SWITCH
- [T] TRANSFORMER
- [M] UTILITY METER BASE

Fire Alarm

- FACP FIRE ALARM CONTROL PANEL
- HEAT DETECTOR
- [P] PULL STATION
- PHOTOELECTRIC SMOKE DETECTOR
- COMBINATION SMOKE ALARM AND CARBON MONOXIDE DETECTOR, SINGLE STATION
- [WF] SPRINKLER FLOW SWITCH WITH INPUT MODULE
- [PIV] SPRINKLER POST INDICATOR VALVE CONNECTION WITH INPUT MODULE
- [VS] SPRINKLER TAMPER SWITCH WITH INPUT MODULE
- [B] EXTERIOR SPRINKLER BELL
- [DH] MAGNETIC DOOR HOLDER
- 15cd STROBE WITH CONDELA RATING
- 15cd HORN/STOBE WITH CONDELA RATING
- [H] HORN

General

- XX / XXX EQUIPMENT IDENTIFICATION
- (1) KEYED NOTE
- X / X DETAIL NUMBER AND SHEET LOCATION
- A / XXX SECTION NUMBER AND SHEET LOCATION

Industrial

- [X-XX] SITE / ONE-LINE DIAGRAM COORDINATION TAG
- [2 - 4"C] SPARE CONDUITS
- CONTROL POWER TRANSFORMER
- (CR) CONTROL RELAY
- (M) CURRENT TRANSFORMER AND METER
- 5A FUSE, AMPERE SIZE SHOWN
- [G] GROUND BUS
- NAMEPLATE
- [N] NEUTRAL BUS
- ø OR PH PHASE
- [PB] PULLBOX
- SEAL-OFF FITTING, CROUSE-HINDS EYS OR EQUAL

Lighting

- EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- EMERGENCY LUMINAIRE WITH BATTERY PACK
- AREA LUMINAIRE ARM MOUNTED WITH POLE AND CONCRETE BASE
- WALL MOUNTED LUMINAIRE
- SURFACE OR PENDANT MOUNTED LED 1' X 4' LUMINAIRE
- SURFACE OR PENDANT MOUNTED LED 1' X 8' LUMINAIRE, TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- SURFACE OR PENDANT MOUNTED LED 1' X 8' LUMINAIRE
- SURFACE OR PENDANT MOUNTED HI-BAY LED LUMINAIRE
- WALL MOUNTED LUMINAIRE
- WALL MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

Miscellaneous

- #10 B-27,29,31. BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
- BRANCH PANEL
- CIRCUIT BREAKER
- CURRENT TRANSFORMER
- (M) DIGITAL TYPE METER WITH VOLTMETER, AMMETER, KW METER, KVA METER, KVAR METER, AND %THD METER
- DRY TYPE TRANSFORMER
- FLUSH MOUNT EQUIPMENT ENCLOSURE AS NOTED
- FLUSH WALL MOUNTED BRANCH PANEL
- GROUNDING POINT
- LANDING LUG
- MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
- (M) METER WITH CONNECTION
- SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
- [SPD] SURGE PROTECTION DEVICE
- WATER PIPE GROUND CONNECTION

Raceways

- CONDUIT CONCEALED IN WALL OR CEILING SPACE
- CONDUIT ROUTED BELOW FLOOR / GRADE
- CONDUIT ELLED DOWN
- CONDUIT ELLED UP
- CONDUIT/WIRING CONTINUATION
- CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING
- FLEXIBLE CONDUIT
- TELEPHONE BACKBOARD
- GROUNDING POINT
- [PB] PULL BOX

Switches and Receptacles

- DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
  - A = ABOVE COUNTER
  - C = FLUSH CEILING MOUNTED
  - E = EMERGENCY
  - G = GROUND FAULT CIRCUIT INTERRUPTER
  - T = TAMPER RESISTANT SHUTTERED RECEPTACLE
  - W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE.
- SINGLE RECEPTACLE.
- SPECIAL DUTY RECEPTACLE.
- [OS] OCCUPANCY SENSOR (SELF CONTAINED)
  - P = PASSIVE INFRARED
  - D = DUAL TECHNOLOGY
  - U = ULTRASONIC, 360 DEG RANGE
  - H = ULTRASONIC, HALLWAY PATTERN
- [RC] RECEPTACLE CONTROLLER
- [PS] LOW VOLTAGE PHOTO SENSOR
- [OS] LOW VOLTAGE OCCUPANCY SENSOR
- $ SWITCH, SPST
  - 2 = DPST
  - 3 = 3-WAY
  - 4 = 4-WAY
  - o THRU z (LOWERCASE) = SWITCH CIRCUIT DESIGNATION
  - D = DIMMER
  - F = FAN SPEED CONTROL
  - K = KEY OPERATED SWITCH
  - M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD
  - P = SWITCH WITH PILOT LIGHT

Telecommunications

- TELCOM OUTLET.
  (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
  - A = ABOVE COUNTER
  - C = CEILING MOUNTED ABOVE ACCESSIBLE CEILING
  - F = FLUSH CEILING MOUNTED
  - R = SURFACE MOUNTED ON RACEWAY

SHEET INDEX

E0.1	ELECTRICAL COVER SHEET
E0.2	ONE-LINE DIAGRAM & PRELIMINARY LOAD CALCULATIONS
E0.3	ELECTRICAL BUILDING PLAN AND DETAILS
E1.0	OVERALL SITE PLAN – ELECTRICAL

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PLOT DATE: 04-22-22 PLOTTED BY: Jerryc

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

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JONATHAN A. [illegible] REGISTERED PROFESSIONAL ENGINEER ELECTRICAL STATE OF CALIFORNIA
PRELIMINARY
Date Signed: 4/22/22

CONSULTANT

Stanton ENGINEERING M+E
PROJECT 21064
11344 Coloma Rd. Suite 445
Gold River, CA 95670
TEL 916.288.6250
www.stantoneng.com

SHEET TITLE
ELECTRICAL COVER SHEET

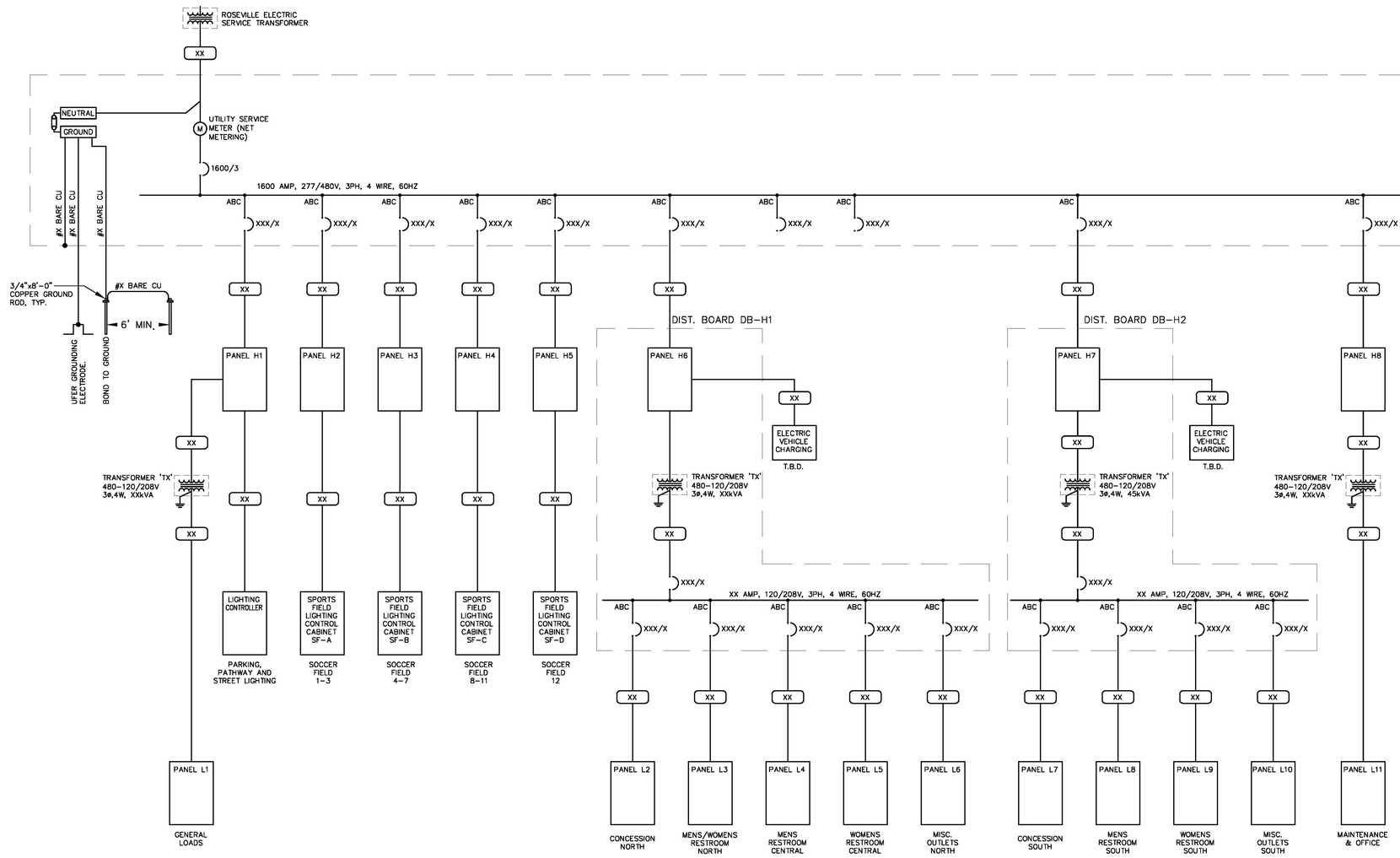
PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
AS-NOTED
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE
1	X X	X

DRAWN BY: JC	CHECKED BY: NH
DATE ISSUED: 04/29/2022	SCALE: AS-NOTED
PROJ. NO.: X	
SHEET NO.: E0.1	



1 **ONE-LINE DIAGRAM**
NO SCALE

City of Roseville Soccer Complex — **04.20.22**
Preliminary Load Calculations — **Stanton Engineering**

	Area/Building		Qty.	KW Each	Kw	Total KW	Amps 480v/3p
1	Soccer Fields	Sports Lighting Poles	4	10	40		
		Soccer Fields	10		40	400	481.70
2	Parking Lot 1	Lighting - Square Ft.	197000	0.00012		23.64	28.47
2A	Parking Lot 2	Lighting - Square Ft.	175000	0.00012		21	25.29
3	Restroom	Lighting - Square Ft.	788	0.0006	0.4728		
		Water Heating	1	2	2		
		Ventilation Sq. Ft.	788	0.0005	0.394		
		Air Hand Dryers	2	1	2		
		4 Restrooms	4		4.8668	19.4672	23.44
3A	Play Area Restroom	Lighting - Square Ft.	400	0.00006	0.024		
		Water Heating	1	2	2		
		Ventilation Sq. Ft.	400	0.0005	0.2		
		Air Hand Dryers	2	1	2		
		P.A. Restroom	1		4.224	4.224	5.09
4	Concessions Bldgs	Lighting - Square Ft.	546	0.00012	0.06552		
		Water Heating	1	3	3		
		Air Curtain	1	0.4	0.4		
		HVAC	1	2.5	2.5		
		Refrigerators	2	0.6	1.2		
		Freezers	2	1.2	2.4		
		Dishwasher	1	1	1		
		Coffee	1	2.4	2.4		
		Hot Dogs	1	2	2		
		Nachos	1	2	2		
		Misc outlets	15	0.18	2.7		
		2 Concession Bldgs	2		19.66552	39.33104	47.36
5	Picnic Shade Struct.	Lighting - Square Ft	4200	0.00006	0.252		
		Misc Outlets	4	0.18	0.72		
		4 Picnic Shade Structures	4		0.972	3.888	4.68
6	Play Area	Lighting - Square Ft	187500	0.00001		1.875	2.26
7	Storage/Maintenance	Warehouse Lighting - Sq. Ft	2000	0.0003	0.6		
	With Restrooms	Office Lighting Sq. Ft.	400	0.0007	0.28		
		Yard lighting Sq. Ft.	41000	0.0001	4.1		
		W.H. Ventilation - Sq. Ft.	2000	0.0005	1		
		Office HVAC - Sq. Ft.	400	0.005	2		
		Misc Outlets	40	0.18	7.2		
		Restrooms	1	2	2		
		Stor/Maint/Restroom	1		17.18	17.18	20.69
8	Site Systems	Site Security System	1	1	1		
		Site Sound System	1	4	4		
		Site CCTV	1	3	3		
		Site Irrigation Pump - 30HP	1	33.21	33.21		
		Site Systems	1		41.21	41.21	49.63
9	Maintenance Road	Lighting - Sq. Ft.	37200	0.0005		18.6	22.40
	South Parking Road	Lighting - Sq. Ft.	7440	0.0005		3.72	4.48
	Perimeter Walkway	Lighting - L.F. (15w@40'o.c.)	3180	0.0004		1.272	1.53
10	Food Truck Parking	Outlets - 30Amp	6	2.8	16.8		
		Courtyard Lighting - Sq. Ft.	46000	0.0005	23		
			1		39.8		1.20
11	Pop-up scorers Table	Outlets	10	0.4		4	4.82
12	Promenade						
	Shade Structure	Lighting - Sq Ft.	1274	0.0004	0.5096		
		Outlets	2	0.18	0.36		
		Shade Structure	14		0.8696	12.1744	14.66
	Pathway Lighting	Lighting - L.F.	2809	0.0003		0.8427	1.01
13	Park Entry	Sign Lighting	1	0.001		0.001	0.00
14	EV Charging	Allotment	1	415		415	499.76
						1027.425	1238.47

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LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.413.6554
fax: 916.413.6525
www.VerdeDesignInc.com

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REGISTERED PROFESSIONAL ENGINEER JONATHAN A. HALL ELECTRICAL STATE OF CALIFORNIA
PRELIMINARY
Date Signed: 4/22/22

CONSULTANT
Stanton ENGINEERING
PROJECT 21064
11344 Coloma Rd. Suite 445
Gold River, CA 95670
TEL 916.288.6250
www.stantonengr.com

SHEET TITLE
ONE-LINE DIAGRAM & LOAD CALCULATIONS

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
AS-NOTED
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE
1	X	X
2	X	

DRAWN BY: JRC
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DATE ISSUED: 04/29/2022
SCALE: AS-NOTED
PROJ. NO.: X
SHEET NO.: E0.2

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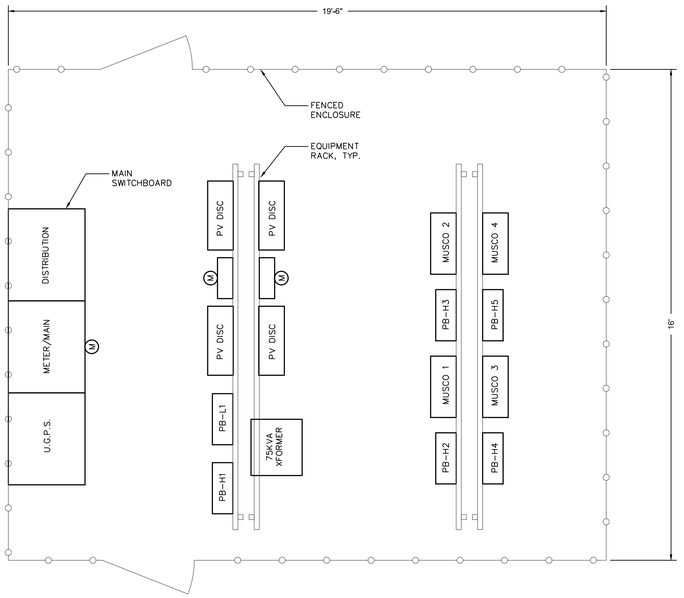
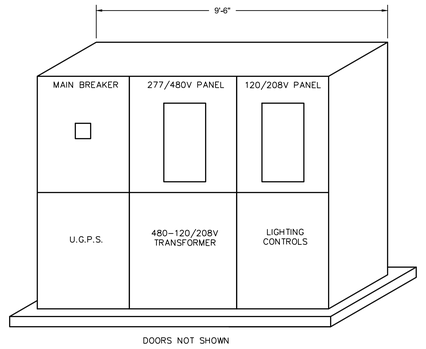
PLOT DATE: 04-22-22 PLOTTED BY: Jerryc

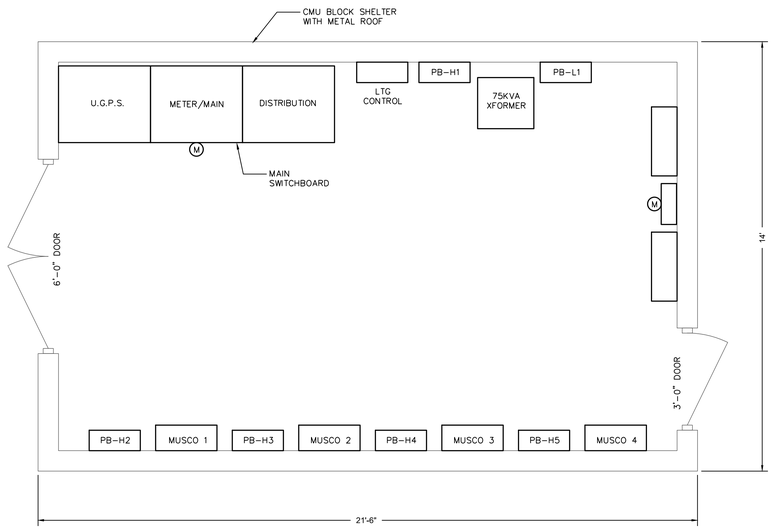


1 ELECTRICAL SERVICE ENCLOSURE PLAN
SCALE: 1/2"=1'-0"



SOUTH SWITCHBOARD DB-H2 SIMILAR

3 ELEVATION - NORTH SWITCHBOARD DB-H1
SCALE: 1/2"=1'-0"



2 ALTERNATE - ELECTRICAL SERVICE SHELTER PLAN
SCALE: 1/2"=1'-0"

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LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
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1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

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Date Signed: 4/22/22

CONSULTANT

Stanton ENGINEERING
PROJECT 21064
11344 Coloma Rd, Suite 445
Gold River, CA 95670
TEL 916.288.6250
www.stantoneng.com

SHEET TITLE
ELECTRICAL BUILDING PLAN AND DETAILS

PROJECT NAME
ROSEVILLE SOCCER COMPLEX

PROJECT ADDRESS
AS-NOTED
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE
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JRC	NH
DATE ISSUED	SCALE
04/29/2022	AS-NOTED

PROJ. NO. X

SHEET NO. E0.3

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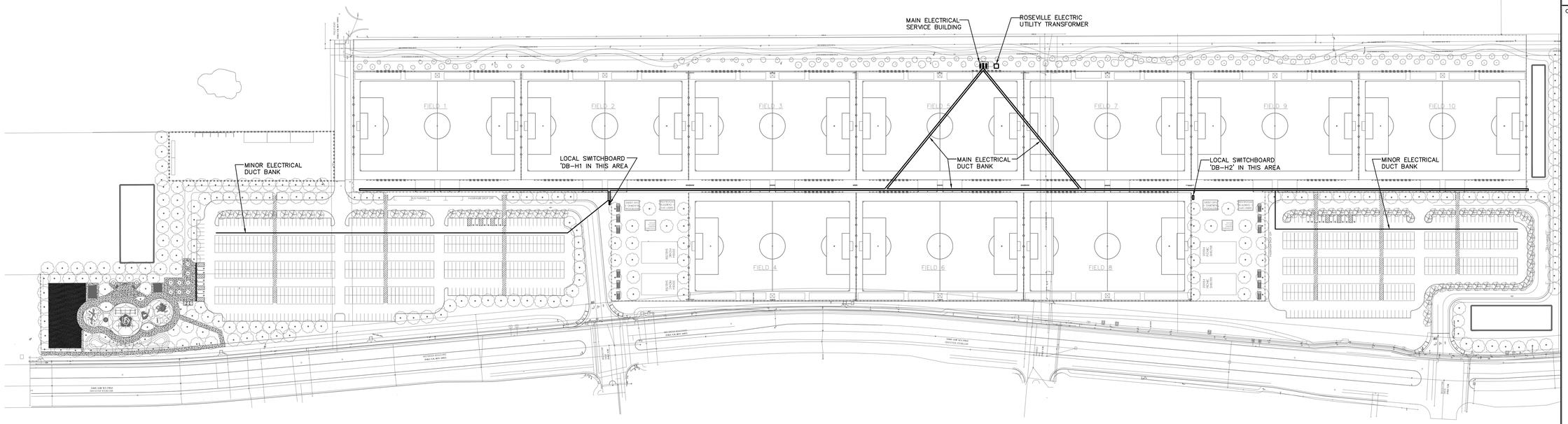

1 OVERALL SITE PLAN - ELECTRICAL

SCALE: 1"=100'-0"

0 100' 200'

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CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

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Date Signed: 4/22/22

CONSULTANT

Stanton ENGINEERING
PROJECT 21064
11344 Coloma Rd. Suite 445
Gold River, CA 95670
TEL 916.288.6250
www.stantoneng.com

SHEET TITLE
OVERALL
SITE PLAN - ELECTRICAL

PROJECT NAME
ROSEVILLE
SOCCER COMPLEX

PROJECT ADDRESS
AS-NOTED
ROSEVILLE, CA 95747

SUBMITTAL	DATE
30% SUBMITTAL	04/29/22

NO.	REVISIONS	DATE
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2		
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6		

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GS	NH
DATE ISSUED	SCALE
04/29/2022	AS-NOTED

PROJ. NO.
X

SHEET NO.
E1.0

ATTACHMENT D

LIGHT ANALYSIS

Roseville Soccer Complex

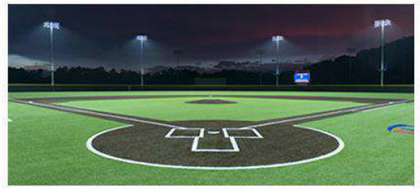
Roseville,CA

Lighting System

Pole / Fixture Summary

Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
S1	70'	70'	1	TLC-LED-1200	1.17 kW	A
		70'	2	TLC-LED-1500	2.86 kW	A
S2, S29	70'	70'	4	TLC-LED-1500	5.72 kW	A
S3	70'	70'	1	TLC-LED-1200	1.17 kW	B
		70'	1	TLC-LED-1200	1.17 kW	A
		70'	2	TLC-LED-1500	2.86 kW	A
		70'	2	TLC-LED-1500	2.86 kW	B
S4, S27	70'	70'	4	TLC-LED-1500	5.72 kW	B
S5	70'	70'	1	TLC-LED-1200	1.17 kW	C
		70'	1	TLC-LED-1200	1.17 kW	B
		70'	2	TLC-LED-1500	2.86 kW	B
		70'	2	TLC-LED-1500	2.86 kW	C
S6	70'	70'	4	TLC-LED-1500	5.72 kW	C
S7	70'	70'	1	TLC-LED-1200	1.17 kW	D
		70'	1	TLC-LED-1200	1.17 kW	C
		70'	2	TLC-LED-1500	2.86 kW	C
		70'	2	TLC-LED-1500	2.86 kW	D
S8	70'	70'	4	TLC-LED-1500	5.72 kW	D
S9	70'	70'	1	TLC-LED-1200	1.17 kW	E
		70'	1	TLC-LED-1200	1.17 kW	D
		70'	2	TLC-LED-1500	2.86 kW	D
		70'	2	TLC-LED-1500	2.86 kW	E
S10	70'	70'	4	TLC-LED-1500	5.72 kW	E
S11	70'	70'	1	TLC-LED-1200	1.17 kW	F
		70'	1	TLC-LED-1200	1.17 kW	E
		70'	2	TLC-LED-1500	2.86 kW	E
		70'	2	TLC-LED-1500	2.86 kW	F
S12, S19	70'	70'	4	TLC-LED-1500	5.72 kW	F
S13	70'	70'	1	TLC-LED-1200	1.17 kW	G
		70'	1	TLC-LED-1200	1.17 kW	F
		70'	2	TLC-LED-1500	2.86 kW	F
		70'	2	TLC-LED-1500	2.86 kW	G
S14, S17	70'	70'	4	TLC-LED-1500	5.72 kW	G
S15	70'	70'	1	TLC-LED-1200	1.17 kW	G
		70'	2	TLC-LED-1500	2.86 kW	G
S16	70'	70'	3	TLC-LED-1500	4.29 kW	G
S18	70'	70'	3	TLC-LED-1500	4.29 kW	G
		70'	3	TLC-LED-1500	4.29 kW	F
S20	70'	70'	3	TLC-LED-1500	4.29 kW	F
		70'	3	TLC-LED-1500	4.29 kW	E
		70'	3	TLC-LED-1500	4.29 kW	J
S21	70'	70'	4	TLC-LED-1500	5.72 kW	E
		70'	4	TLC-LED-1500	5.72 kW	J
S22	70'	70'	3	TLC-LED-1500	4.29 kW	E
		70'	3	TLC-LED-1500	4.29 kW	D
		70'	3	TLC-LED-1500	4.29 kW	I
		70'	3	TLC-LED-1500	4.29 kW	J
S23	70'	70'	2	TLC-LED-1200	2.34 kW	I
		70'	4	TLC-LED-1500	5.72 kW	D
		70'	2	TLC-LED-1500	2.86 kW	I
S24	70'	70'	3	TLC-LED-1500	4.29 kW	D
		70'	3	TLC-LED-1500	4.29 kW	C
		70'	3	TLC-LED-1500	4.29 kW	H
		70'	3	TLC-LED-1500	4.29 kW	I
S25	70'	70'	4	TLC-LED-1500	5.72 kW	C

From Hometown to Professional









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ENGINEERED DESIGN By: Bryce Miles · File #215342C · 05-May-22

Roseville Soccer Complex

Roseville,CA

Pole / Fixture Summary						
Pole ID	**Pole Height**	**Mtg Height**	**Fixture Qty**	**Luminaire Type**	**Load**	**Circuit**
		70'	4	TLC-LED-1500	5.72 kW	H
S26	70'	70'	3	TLC-LED-1500	4.29 kW	C
		70'	3	TLC-LED-1500	4.29 kW	B
		70'	3	TLC-LED-1500	4.29 kW	H
S28	70'	70'	3	TLC-LED-1500	4.29 kW	B
		70'	3	TLC-LED-1500	4.29 kW	A
S30	70'	70'	3	TLC-LED-1500	4.29 kW	A
S31	70'	70'	2	TLC-LED-1200	2.34 kW	H
		70'	2	TLC-LED-600	1.16 kW	H
S32	70'	70'	2	TLC-LED-1200	2.34 kW	H
		70'	2	TLC-LED-600	1.16 kW	H
		70'	4	TLC-LED-900	3.56 kW	H
S33	70'	70'	2	TLC-LED-1200	2.34 kW	I
		70'	2	TLC-LED-1200	2.34 kW	H
		70'	2	TLC-LED-600	1.16 kW	H
		70'	2	TLC-LED-900	1.78 kW	I
S34	70'	70'	2	TLC-LED-1200	2.34 kW	I
		70'	6	TLC-LED-900	5.34 kW	I
S35	70'	70'	2	TLC-LED-1200	2.34 kW	I
		70'	2	TLC-LED-1500	2.86 kW	J
		70'	2	TLC-LED-900	1.78 kW	I
		70'	1	TLC-LED-900	0.89 kW	J
S36	70'	70'	4	TLC-LED-1500	5.72 kW	J
		70'	2	TLC-LED-900	1.78 kW	J
S37	70'	70'	2	TLC-LED-1500	2.86 kW	J
		70'	1	TLC-LED-900	0.89 kW	J
37			***214***		***283.92 kW***	

From Hometown to Professional









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ENGINEERED DESIGN By: Bryce Miles · File #215342C · 05-May-22

Roseville Soccer Complex

Roseville,CA

Circuit Summary

Circuit	Description	Load	Fixture Qty
A	Soccer 1	28.08 kW	20
B	Soccer 2	28.08 kW	20
C	Soccer 3	28.08 kW	20
D	Soccer 4	28.08 kW	20
E	Soccer 5	28.08 kW	20
F	Soccer 6	28.08 kW	20
G	Soccer 7	28.08 kW	20
H	Soccer 8	28.36 kW	26
I	Soccer 9	29.7 kW	26
J	Soccer 10	29.3 kW	22

Fixture Type Summary

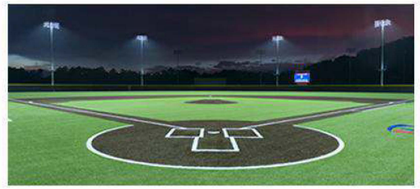
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	162
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	28
TLC-LED-600	LED 5700K - 75 CRI	580W	65,600	>120,000	>120,000	>120,000	6
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	18

Light Level Summary

Calculation Grid Summary

Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
150ft IDA Spill	Horizontal	0.02	0	0.08	0.00		A,B,C,D,E,F,G,H,I,J	214
150ft IDA Spill	Max Candela (by Fixture)	1557	0	16894	0.00		A,B,C,D,E,F,G,H,I,J	214
150ft IDA Spill	Max Vertical Illuminance Metric	0.04	0	0.21	0.00		A,B,C,D,E,F,G,H,I,J	214
East Road Spill - Across Road	Horizontal	0.01	0	0.02	44.08		A,B,C,D,E,F,G,H,I,J	214
East Road Spill - Across Road	Max Candela (by Fixture)	1198	156	2935	18.87	7.70	A,B,C,D,E,F,G,H,I,J	214
East Road Spill - Across Road	Max Vertical Illuminance Metric	0.03	0	0.07	32.02		A,B,C,D,E,F,G,H,I,J	214
East Road Spill	Horizontal	0.12	0	0.27	133.53		A,B,C,D,E,F,G,H,I,J	214
East Road Spill	Max Candela (by Fixture)	5167	441	10199	23.14	11.72	A,B,C,D,E,F,G,H,I,J	214
East Road Spill	Max Vertical Illuminance Metric	0.23	0.01	0.51	67.81	22.60	A,B,C,D,E,F,G,H,I,J	214
Soccer 10	Horizontal Illuminance	31.1	27	35	1.33	1.15	A,J	42
Soccer 1	Horizontal Illuminance	31.7	26	36	1.39	1.22	A	20
Soccer 2	Horizontal Illuminance	32.1	25	37	1.49	1.28	B	20
Soccer 3	Horizontal Illuminance	31.9	24	39	1.66	1.33	C	20
Soccer 4	Horizontal Illuminance	32.4	25	38	1.51	1.30	D	20
Soccer 5	Horizontal Illuminance	32.1	26	36	1.41	1.24	E	20
Soccer 6	Horizontal Illuminance	31.8	25	37	1.46	1.27	F	20
Soccer 7	Horizontal Illuminance	31.8	26	37	1.42	1.22	B,G	40
Soccer 8	Horizontal Illuminance	30.9	26	36	1.42	1.19	A,H	46
Soccer 9	Horizontal Illuminance	31.5	25	38	1.50	1.26	C,I	46
West Road Spill - Across Road	Horizontal	0	0	0	0.00		A,B,C,D,E,F,G,H,I,J	214
West Road Spill - Across Road	Max Candela (by Fixture)	7.37	0	165	0.00		A,B,C,D,E,F,G,H,I,J	214
West Road Spill - Across Road	Max Vertical Illuminance Metric	0	0	0	0.00		A,B,C,D,E,F,G,H,I,J	214
West Road Spill	Horizontal	0.11	0	1.09	0.00		A,B,C,D,E,F,G,H,I,J	214
West Road Spill	Max Candela (by Fixture)	1106	0	5712	0.00		A,B,C,D,E,F,G,H,I,J	214
West Road Spill	Max Vertical Illuminance Metric	0.24	0	1.36	0.00		A,B,C,D,E,F,G,H,I,J	214

From Hometown to Professional









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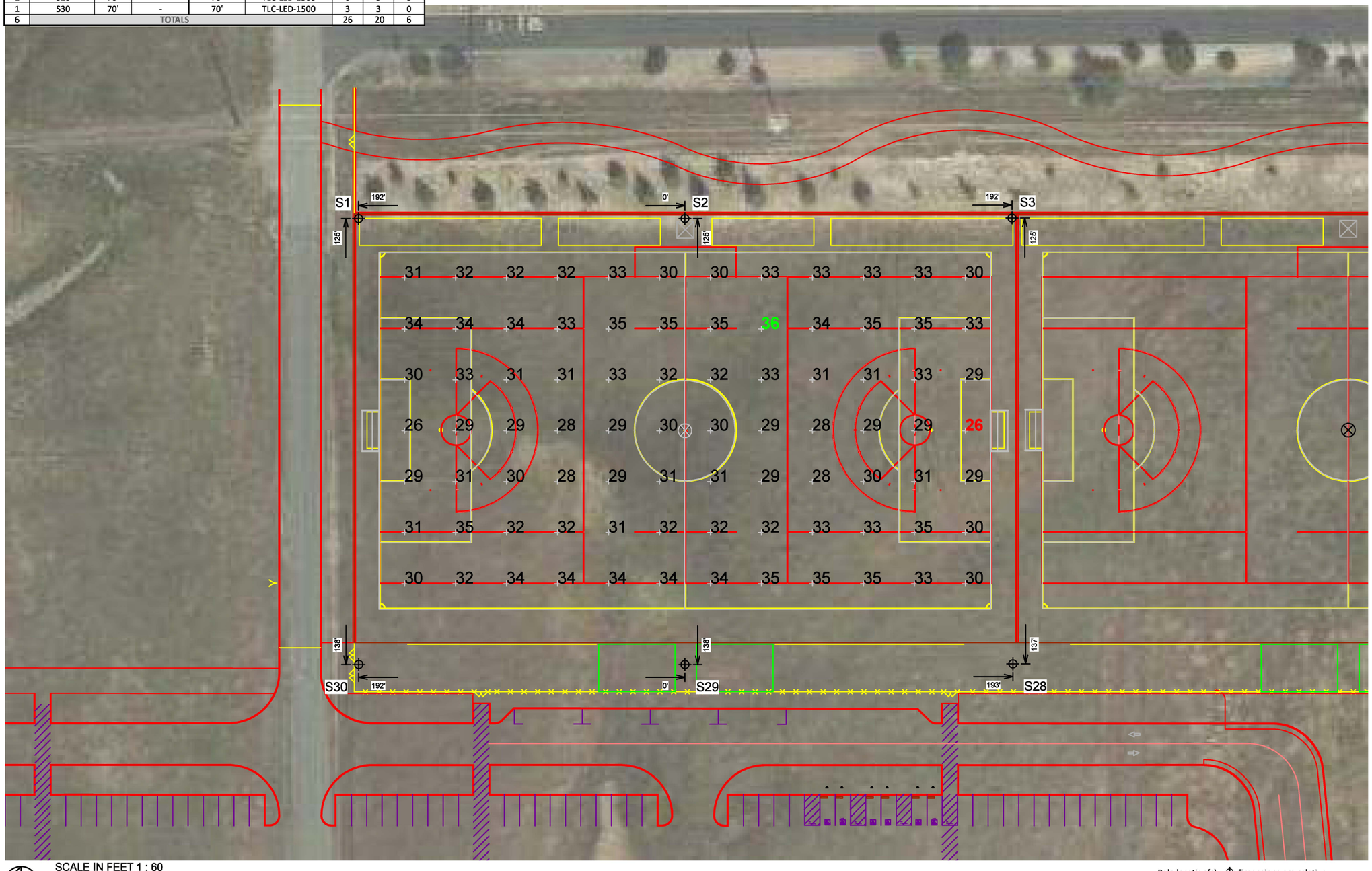
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	S1	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-1500	2	2	0
2	S2, S29	70'	-	70'	TLC-LED-1500	4	4	0
1	S3	70'	-	70'	TLC-LED-1200	2	1	1
				70'	TLC-LED-1500	4	2	2
1	S28	70'	-	70'	TLC-LED-1500	6	3	3
1	S30	70'	-	70'	TLC-LED-1500	3	3	0
6	TOTALS					26	20	6



SCALE IN FEET 1 : 60

0' 60' 120'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: Bryce Miles · File #215342C · 05-May-22

Roseville Soccer Complex

Roseville,CA

GRID SUMMARY

Name:	**Soccer 1**
Size:	360' x 210'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Guaranteed Average:	**30**
Scan Average:	31.70
Maximum:	36
Minimum:	26
Avg / Min:	1.24
Guaranteed Max / Min:	**2.5**
Max / Min:	1.39
UG (adjacent pts):	1.18
CU:	0.75
No. of Points:	84

LUMINAIRE INFORMATION

Applied Circuits:	A
No. of Luminaires:	**20**
Total Load:	28.08 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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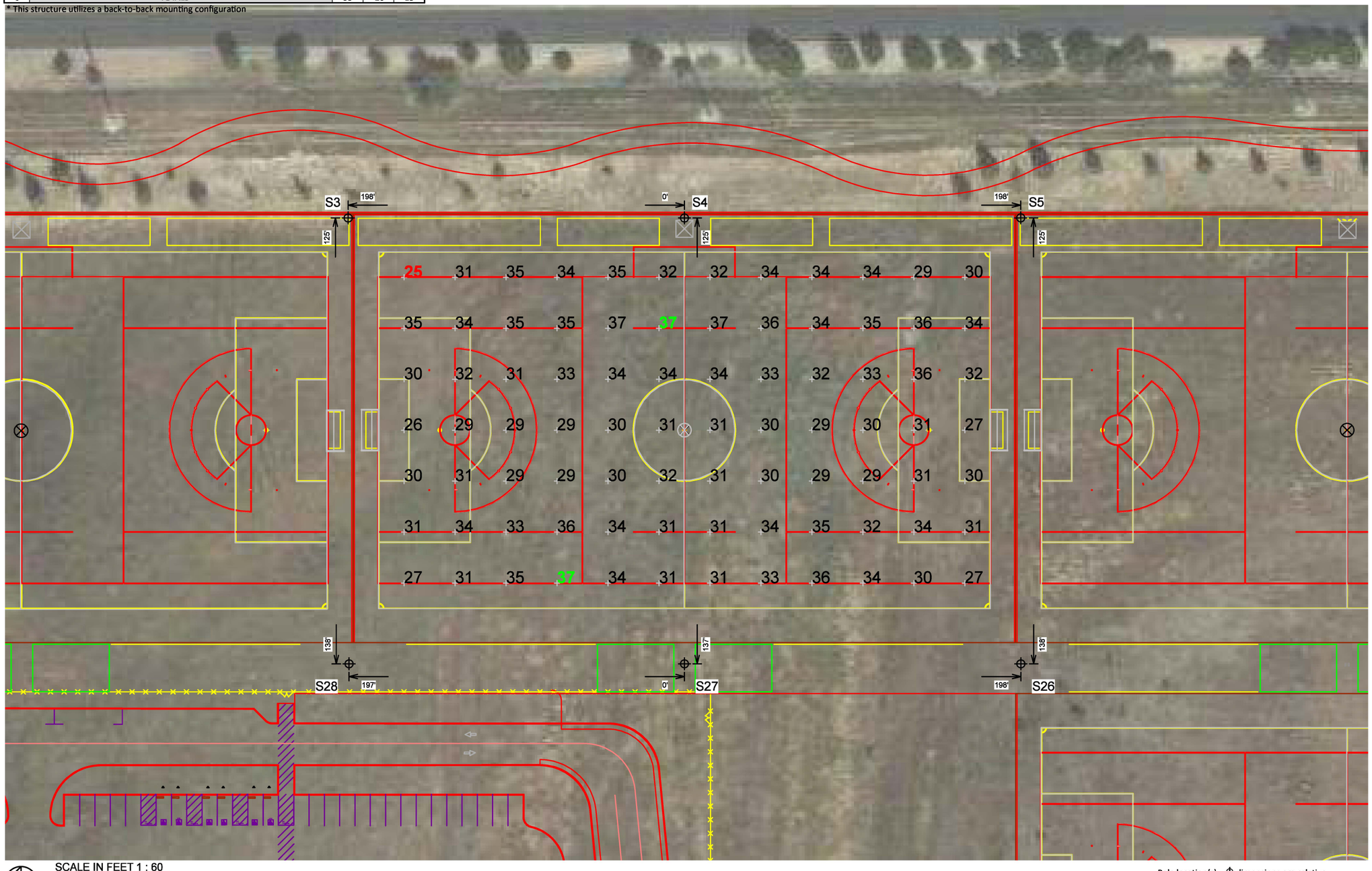
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	S3, S5	70'	-	70'	TLC-LED-1200	2	1	1
				70'	TLC-LED-1500	4	2	2
2	S4, S27	70'	-	70'	TLC-LED-1500	4	4	0
1	S26	70'	-	70'	TLC-LED-1500	6/3*	3	6
1	S28	70'	-	70'	TLC-LED-1500	6	3	3
6	TOTALS					35	20	15

* This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 60

0' 60' 120'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: Bryce Miles · File #215342C · 05-May-22

Roseville Soccer Complex

Roseville,CA

GRID SUMMARY

Name:	**Soccer 2**
Size:	360' x 210'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Guaranteed Average:	**30**
Scan Average:	32.11
Maximum:	37
Minimum:	25
Avg / Min:	1.29
Guaranteed Max / Min:	**2.5**
Max / Min:	1.49
UG (adjacent pts):	1.40
CU:	0.77
No. of Points:	84

LUMINAIRE INFORMATION

Applied Circuits:	B
No. of Luminaires:	**20**
Total Load:	28.08 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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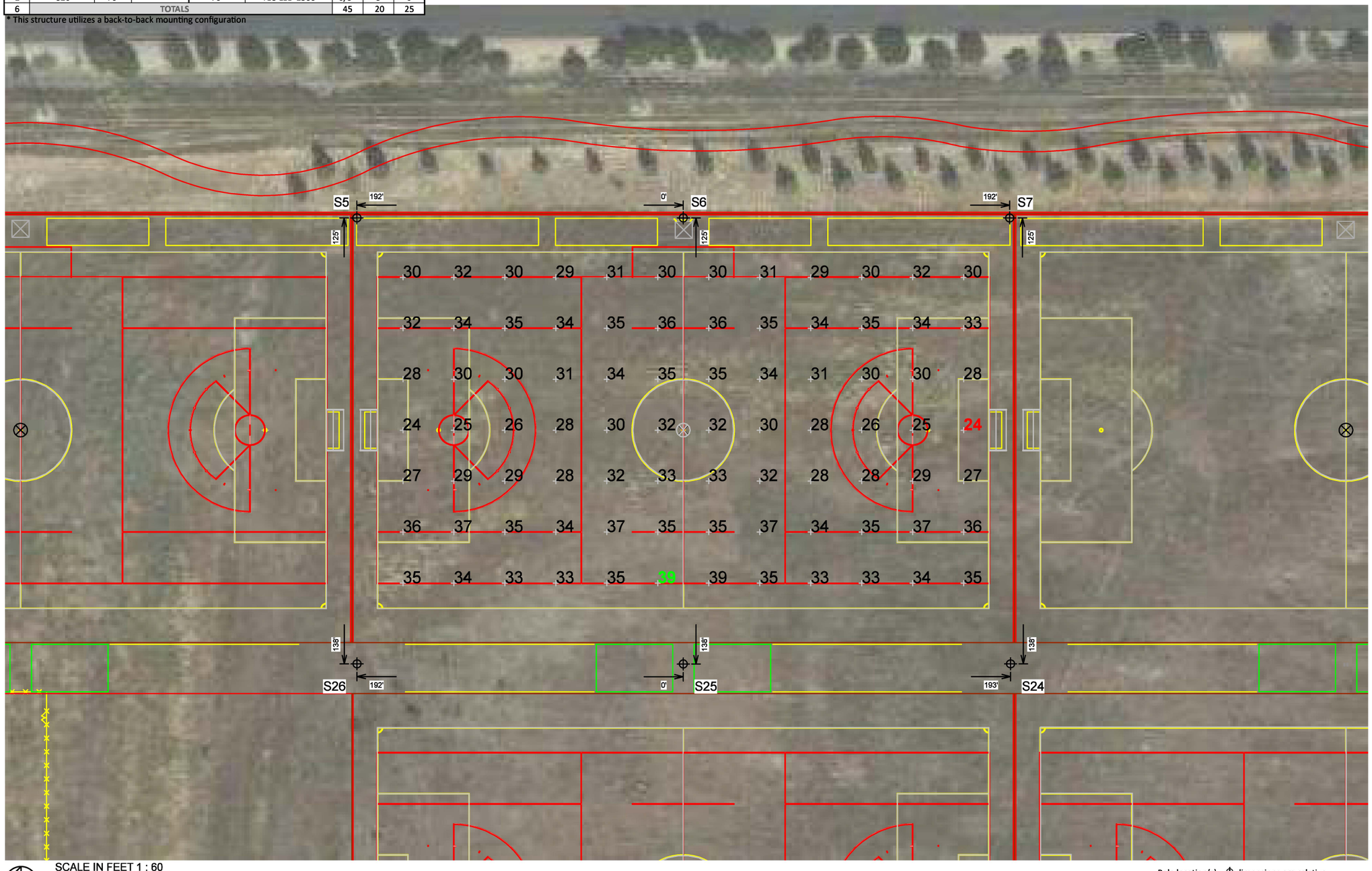
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	S5, S7	70'	-	70'	TLC-LED-1200	2	1	1
				70'	TLC-LED-1500	4	2	2
1	S6	70'	-	70'	TLC-LED-1500	4	4	0
1	S24	70'	-	70'	TLC-LED-1500	6/6*	3	9
1	S25	70'	-	70'	TLC-LED-1500	4/4*	4	4
1	S26	70'	-	70'	TLC-LED-1500	6/3*	3	6
6	TOTALS					45	20	25

* This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 60

0' 60' 120'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: Bryce Miles · File #215342C · 05-May-22

Roseville Soccer Complex

Roseville,CA

GRID SUMMARY

Name:	**Soccer 3**
Size:	360' x 210'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Guaranteed Average:	**30**
Scan Average:	31.92
Maximum:	39
Minimum:	24
Avg / Min:	1.35
Guaranteed Max / Min:	**2.5**
Max / Min:	1.66
UG (adjacent pts):	1.32
CU:	0.76
No. of Points:	84

LUMINAIRE INFORMATION

Applied Circuits:	C
No. of Luminaires:	**20**
Total Load:	28.08 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	S7, S9	70'	-	70'	TLC-LED-1200	2	1	1
				70'	TLC-LED-1500	4	2	2
1	S8	70'	-	70'	TLC-LED-1500	4	4	0
2	S22, S24	70'	-	70'	TLC-LED-1500	6/6*	3	9
1	S23	70'	-	70'	TLC-LED-1200	2*	0	2
				70'	TLC-LED-1500	4/2*	4	2
6	TOTALS					48	20	28

* This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 60

0' 60' 120'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: Bryce Miles · File #215342C · 05-May-22

Roseville Soccer Complex

Roseville,CA

GRID SUMMARY

Name:	**Soccer 4**
Size:	360' x 210'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Guaranteed Average:	**30**
Scan Average:	32.40
Maximum:	38
Minimum:	25
Avg / Min:	1.29
Guaranteed Max / Min:	**2.5**
Max / Min:	1.51
UG (adjacent pts):	1.18
CU:	0.78
No. of Points:	84

LUMINAIRE INFORMATION

Applied Circuits:	D
No. of Luminaires:	**20**
Total Load:	28.08 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	S9, S11	70'	-	70'	TLC-LED-1200	2	1	1
				70'	TLC-LED-1500	4	2	2
1	S10	70'	-	70'	TLC-LED-1500	4	4	0
1	S20	70'	-	70'	TLC-LED-1500	6/3*	3	6
1	S21	70'	-	70'	TLC-LED-1500	4/4*	4	4
1	S22	70'	-	70'	TLC-LED-1500	6/6*	3	9
6	TOTALS					45	20	25

* This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 60

0' 60' 120'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: Bryce Miles · File #215342C · 05-May-22

Roseville Soccer Complex

Roseville,CA

GRID SUMMARY

Name:	**Soccer 5**
Size:	360' x 210'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Guaranteed Average:	**30**
Scan Average:	32.13
Maximum:	36
Minimum:	26
Avg / Min:	1.24
Guaranteed Max / Min:	**2.5**
Max / Min:	1.41
UG (adjacent pts):	1.29
CU:	0.77
No. of Points:	84

LUMINAIRE INFORMATION

Applied Circuits:	E
No. of Luminaires:	**20**
Total Load:	28.08 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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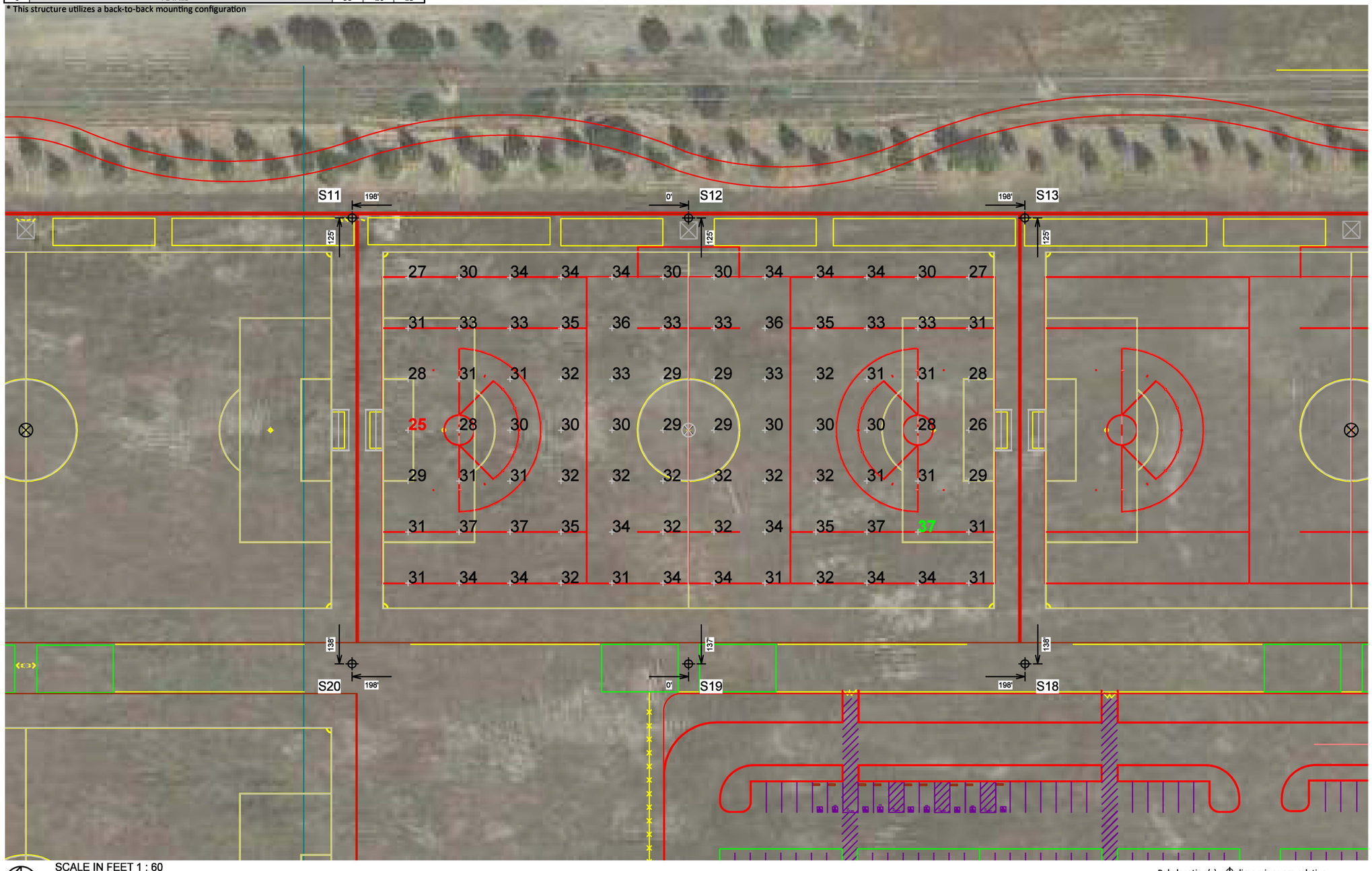
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	S11, S13	70'	-	70'	TLC-LED-1200	2	1	1
				70'	TLC-LED-1500	4	2	2
2	S12, S19	70'	-	70'	TLC-LED-1500	4	4	0
1	S18	70'	-	70'	TLC-LED-1500	6	3	3
1	S20	70'	-	70'	TLC-LED-1500	6/3*	3	6
6	TOTALS					35	20	15

* This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 60

0' 60' 120'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: Bryce Miles · File #215342C · 05-May-22

Roseville Soccer Complex

Roseville,CA

GRID SUMMARY

Name:	**Soccer 6**
Size:	360' x 210'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Guaranteed Average:	**30**
Scan Average:	31.83
Maximum:	37
Minimum:	25
Avg / Min:	1.25
Guaranteed Max / Min:	**2.5**
Max / Min:	1.46
UG (adjacent pts):	1.21
CU:	0.76
No. of Points:	84

LUMINAIRE INFORMATION

Applied Circuits:	F
No. of Luminaires:	**20**
Total Load:	28.08 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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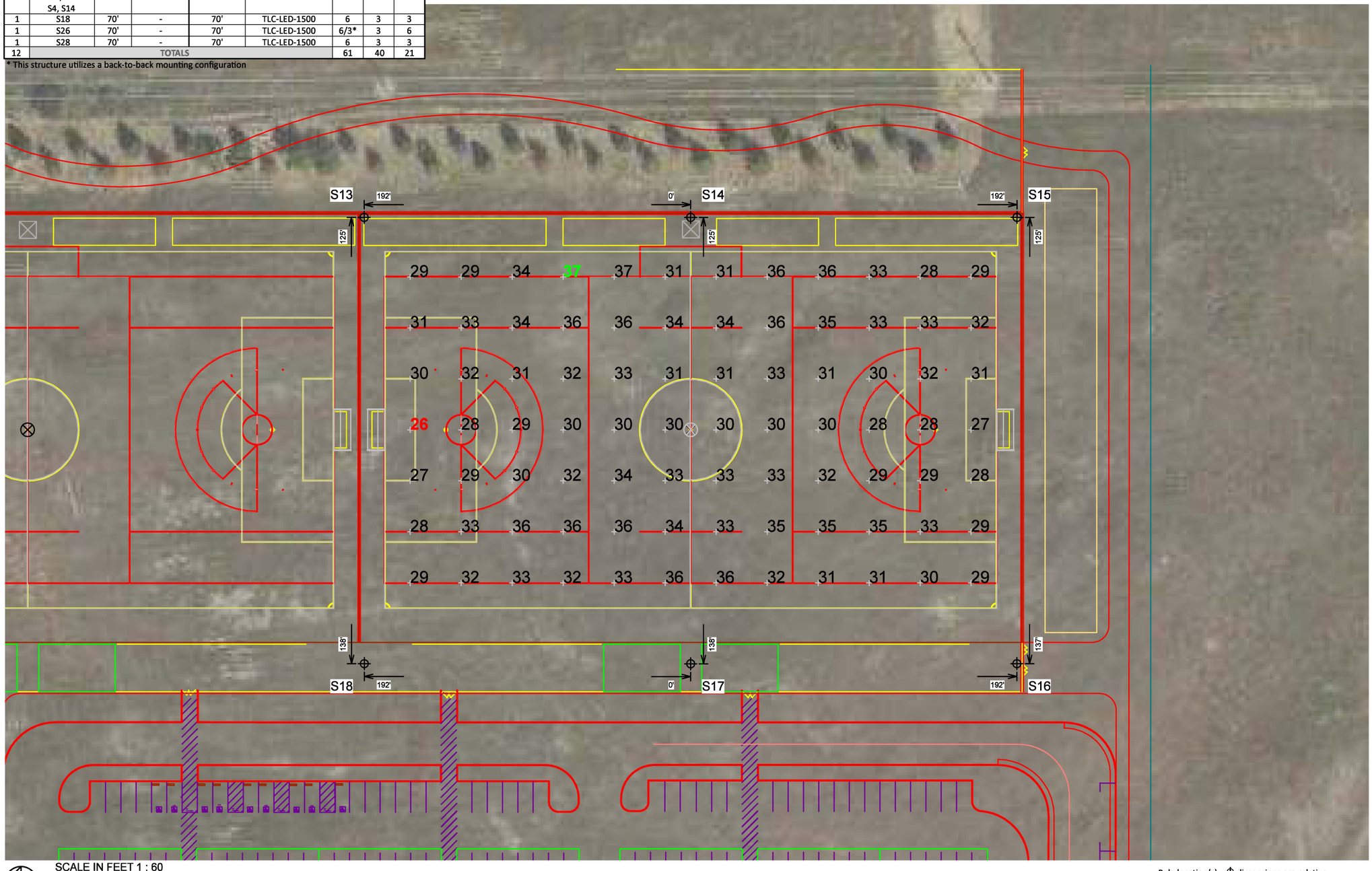
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
3	S3, S5, S13	70'	-	70'	TLC-LED-1200	2	1	1
				70'	TLC-LED-1500	4	2	2
1	S15	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-1500	2	2	0
1	S16	70'	-	70'	TLC-LED-1500	3	3	0
4	S17, S27 S4, S14	70'	-	70'	TLC-LED-1500	4	4	0
1	S18	70'	-	70'	TLC-LED-1500	6	3	3
1	S26	70'	-	70'	TLC-LED-1500	6/3*	3	6
1	S28	70'	-	70'	TLC-LED-1500	6	3	3
12	TOTALS					61	40	21

* This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 60

0' 60' 120'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: Bryce Miles · File #215342C · 05-May-22

Roseville Soccer Complex

Roseville,CA

GRID SUMMARY

Name:	**Soccer 7**
Size:	360' x 210'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Guaranteed Average:	**30**
Scan Average:	31.79
Maximum:	37
Minimum:	26
Avg / Min:	1.22
Guaranteed Max / Min:	**2.5**
Max / Min:	1.42
UG (adjacent pts):	1.21
CU:	0.38
No. of Points:	84

LUMINAIRE INFORMATION

Applied Circuits:	B, G
No. of Luminaires:	**40**
Total Load:	56.16 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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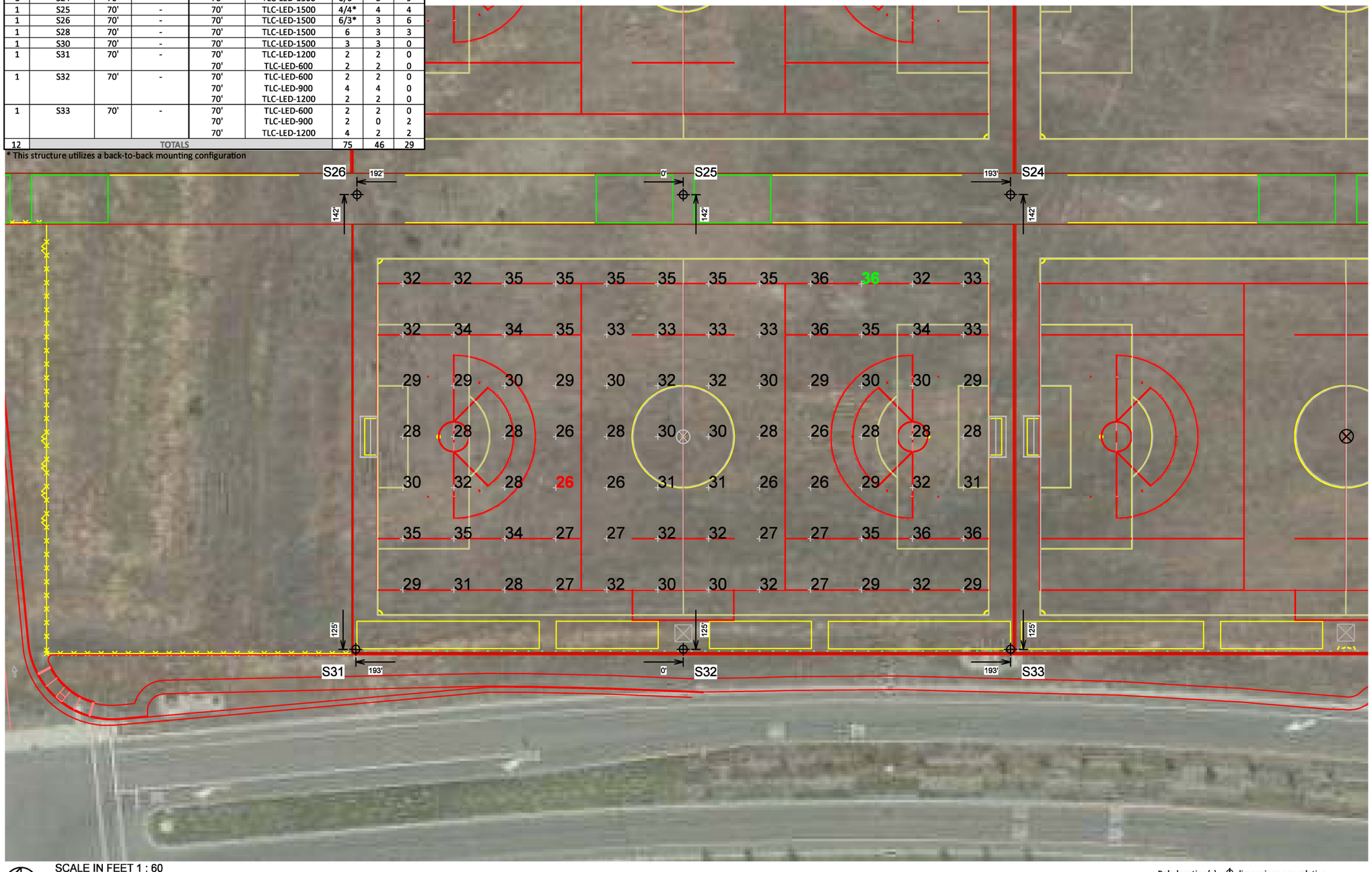
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	S1	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-1500	2	2	0
2	S2, S29	70'	-	70'	TLC-LED-1500	4	4	0
1	S3	70'	-	70'	TLC-LED-1200	2	1	1
				70'	TLC-LED-1500	4	2	2
1	S24	70'	-	70'	TLC-LED-1500	6/6*	3	9
1	S25	70'	-	70'	TLC-LED-1500	4/4*	4	4
1	S26	70'	-	70'	TLC-LED-1500	6/3*	3	6
1	S28	70'	-	70'	TLC-LED-1500	6	3	3
1	S30	70'	-	70'	TLC-LED-1500	3	3	0
1	S31	70'	-	70'	TLC-LED-1200	2	2	0
				70'	TLC-LED-600	2	2	0
1	S32	70'	-	70'	TLC-LED-600	2	2	0
				70'	TLC-LED-900	4	4	0
				70'	TLC-LED-1200	2	2	0
1	S33	70'	-	70'	TLC-LED-600	2	2	0
				70'	TLC-LED-900	2	0	2
				70'	TLC-LED-1200	4	2	2
12	TOTALS					75	46	29

* This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 60

0' 60' 120'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: Bryce Miles · File #215342C · 05-May-22

Roseville Soccer Complex

Roseville,CA

GRID SUMMARY

Name:	**Soccer 8**
Size:	360' x 210'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Guaranteed Average:	**30**
Scan Average:	30.92
Maximum:	36
Minimum:	26
Avg / Min:	1.20
Guaranteed Max / Min:	**2.5**
Max / Min:	1.42
UG (adjacent pts):	1.28
CU:	0.37
No. of Points:	84

LUMINAIRE INFORMATION

Applied Circuits:	A, H
No. of Luminaires:	**46**
Total Load:	56.44 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	S5, S7	70'	-	70'	TLC-LED-1200	2	1	1
				70'	TLC-LED-1500	4	2	2
1	S6	70'	-	70'	TLC-LED-1500	4	4	0
1	S22	70'	-	70'	TLC-LED-1500	6/6*	3	9
1	S23	70'	-	70'	TLC-LED-1200	2*	2	0
				70'	TLC-LED-1500	4/2*	2	4
1	S24	70'	-	70'	TLC-LED-1500	6/6*	6	6
1	S25	70'	-	70'	TLC-LED-1500	4/4*	4	4
1	S26	70'	-	70'	TLC-LED-1500	6/3*	3	6
1	S33	70'	-	70'	TLC-LED-600	2	0	2
				70'	TLC-LED-900	2	2	0
				70'	TLC-LED-1200	4	2	2
1	S34	70'	-	70'	TLC-LED-900	6	6	0
				70'	TLC-LED-1200	2	2	0
1	S35	70'	-	70'	TLC-LED-1200	2	2	0
				70'	TLC-LED-900	3	2	1
				70'	TLC-LED-1500	2	0	2
11	TOTALS					88	46	42

* This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 60

0' 60' 120'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: Bryce Miles · File #215342C · 05-May-22

Roseville Soccer Complex

Roseville,CA

GRID SUMMARY

Name:	**Soccer 9**
Size:	360' x 210'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Guaranteed Average:	**30**
Scan Average:	31.47
Maximum:	38
Minimum:	25
Avg / Min:	1.24
Guaranteed Max / Min:	**2.5**
Max / Min:	1.50
UG (adjacent pts):	1.22
CU:	0.37
No. of Points:	84

LUMINAIRE INFORMATION

Applied Circuits:	C, I
No. of Luminaires:	**46**
Total Load:	57.78 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	S1	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-1500	2	2	0
2	S2, S29	70'	-	70'	TLC-LED-1500	4	4	0
1	S3	70'	-	70'	TLC-LED-1200	2	1	1
				70'	TLC-LED-1500	4	2	2
1	S20	70'	-	70'	TLC-LED-1500	6/3*	3	6
1	S21	70'	-	70'	TLC-LED-1500	4/4*	4	4
1	S22	70'	-	70'	TLC-LED-1500	6/6*	3	9
1	S28	70'	-	70'	TLC-LED-1500	6	3	3
1	S30	70'	-	70'	TLC-LED-1500	3	3	0
1	S35	70'	-	70'	TLC-LED-1200	2	0	2
				70'	TLC-LED-900	3	1	2
				70'	TLC-LED-1500	2	2	0
1	S36	70'	-	70'	TLC-LED-900	2	2	0
				70'	TLC-LED-1500	4	4	0
1	S37	70'	-	70'	TLC-LED-900	1	1	0
				70'	TLC-LED-1500	2	2	0
12	TOTALS					71	42	29

* This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 60

0' 60' 120'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: Bryce Miles · File #215342C · 05-May-22

Roseville Soccer Complex

Roseville,CA

GRID SUMMARY

Name:	**Soccer 10**
Size:	360' x 210'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Guaranteed Average:	**30**
Scan Average:	31.11
Maximum:	35
Minimum:	27
Avg / Min:	1.17
Guaranteed Max / Min:	**2.5**
Max / Min:	1.33
UG (adjacent pts):	1.17
CU:	0.37
No. of Points:	84

LUMINAIRE INFORMATION

Applied Circuits:	A, J
No. of Luminaires:	**42**
Total Load:	57.38 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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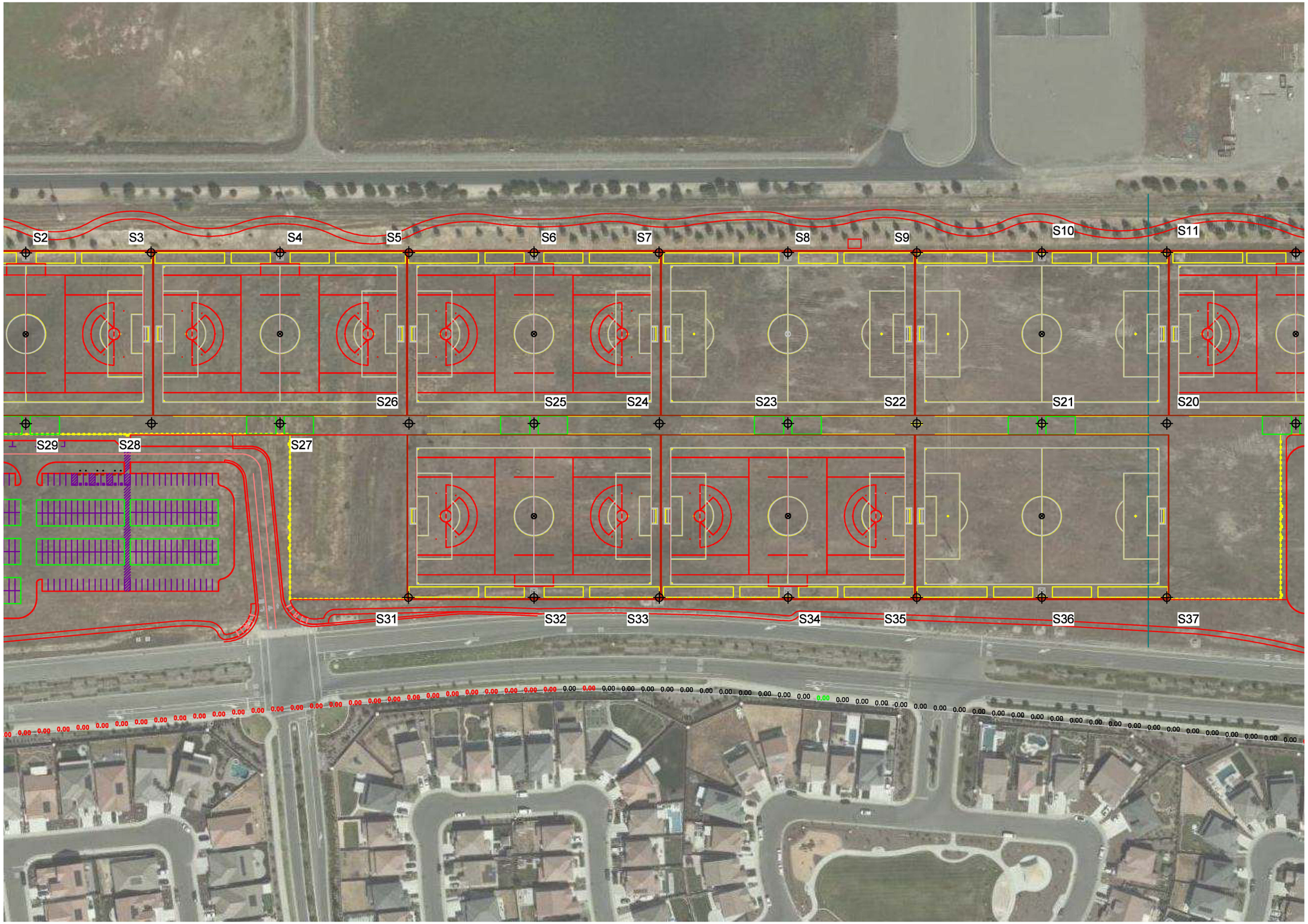

Roseville Soccer Complex

Roseville,CA

GRID SUMMARY

Name:	**West Road Spill - Across Road**
Spacing:	30.0'
Height:	0.0' above grade

ILLUMINATION SUMMARY

HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	0.0000
Maximum:	0.00
Minimum:	0.00
No. of Points:	116

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D, E, F, G, H, I, J
No. of Luminaires:	**214**
Total Load:	283.92 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1 : 150

0' 150' 300'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: Bryce Miles · File #215342C · 05-May-22

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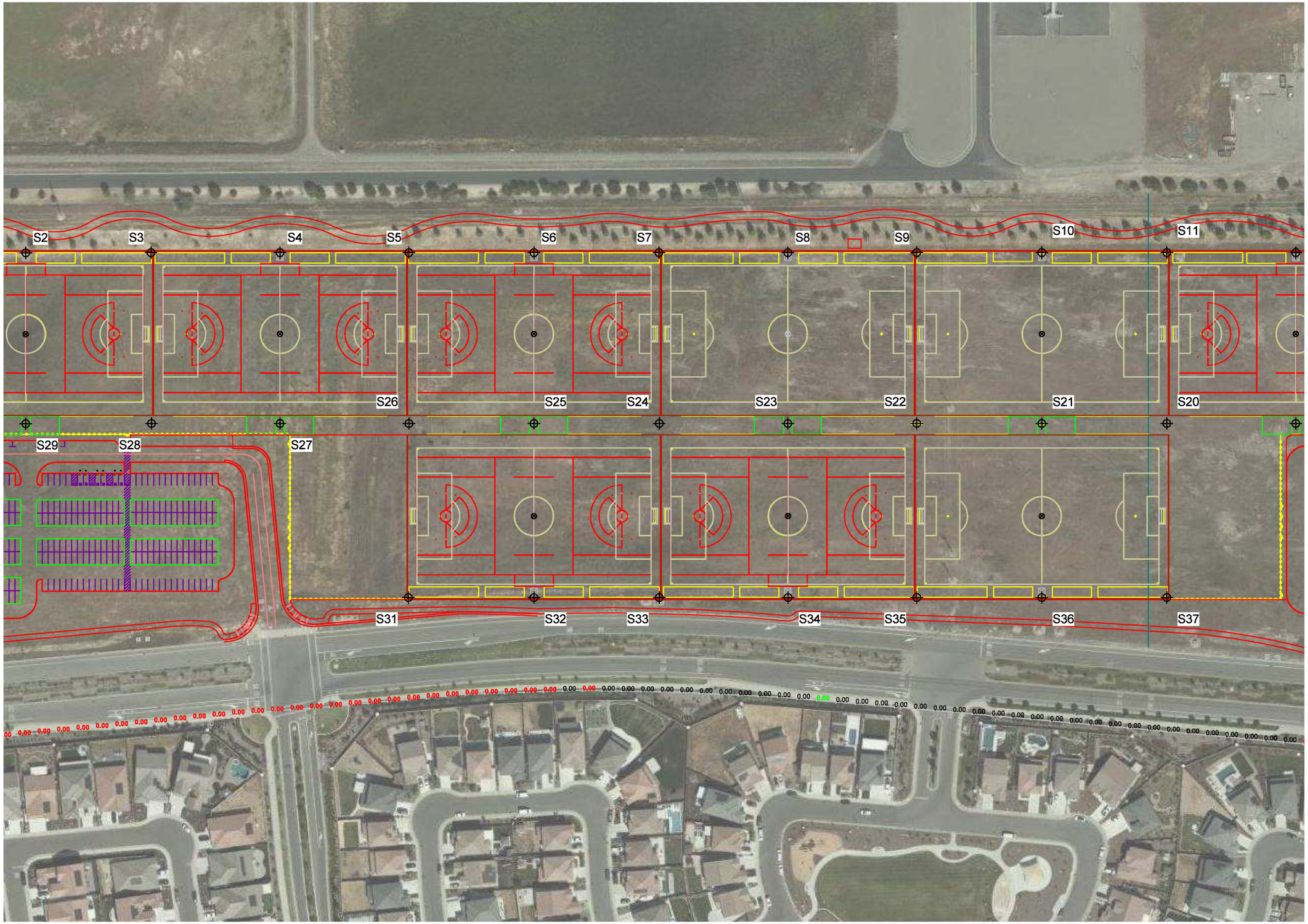

Roseville Soccer Complex

Roseville,CA

GRID SUMMARY

Name:	**West Road Spill - Across Road**
Spacing:	30.0'
Height:	0.0' above grade

ILLUMINATION SUMMARY

MAX VERTICAL FOOTCANDLES

	Entire Grid
Scan Average:	0.0001
Maximum:	0.00
Minimum:	0.00
No. of Points:	116

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D, E, F, G, H, I, J
No. of Luminaires:	**214**
Total Load:	283.92 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1 : 150

0' 150' 300'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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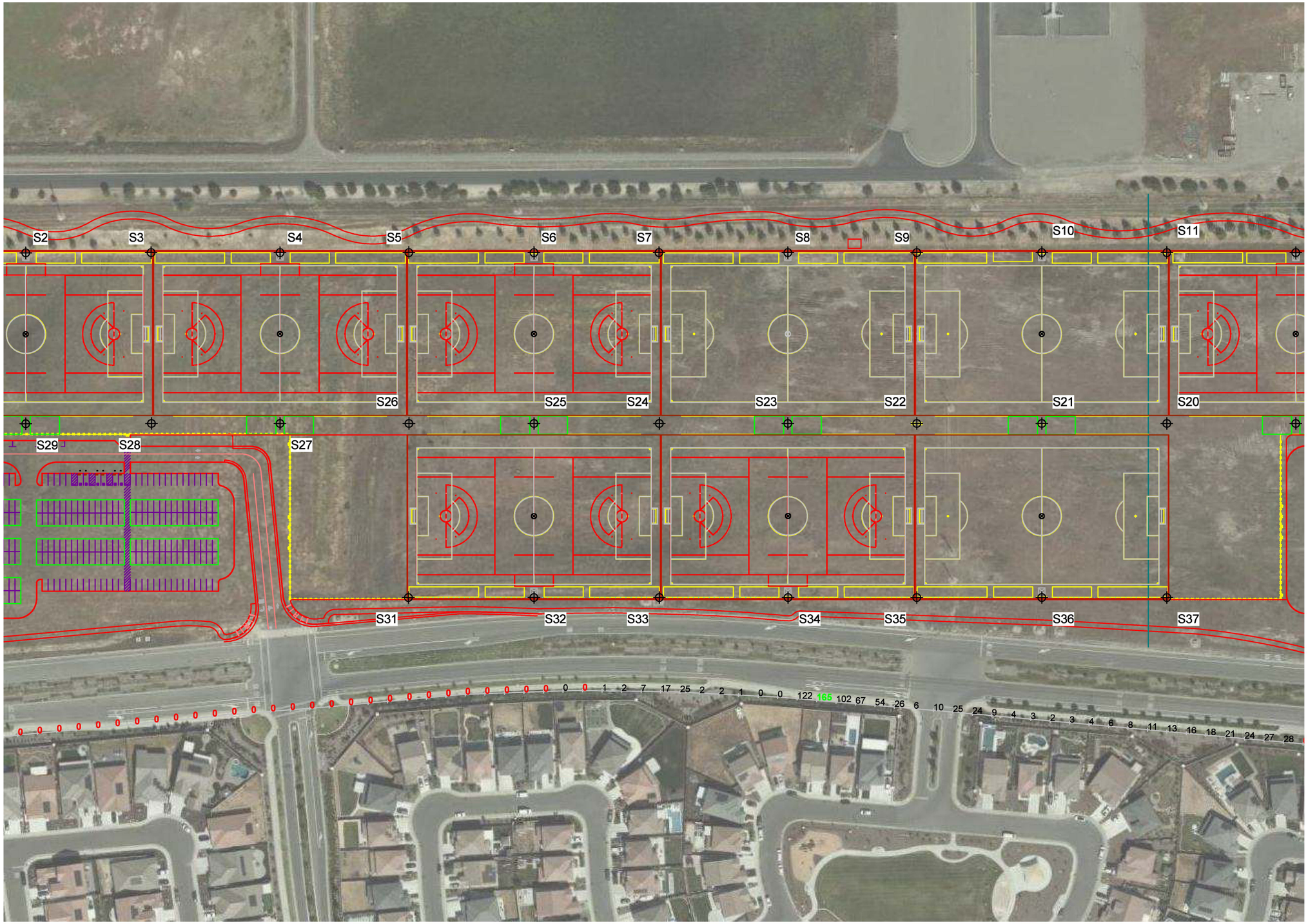
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S26
S25
S24
S23
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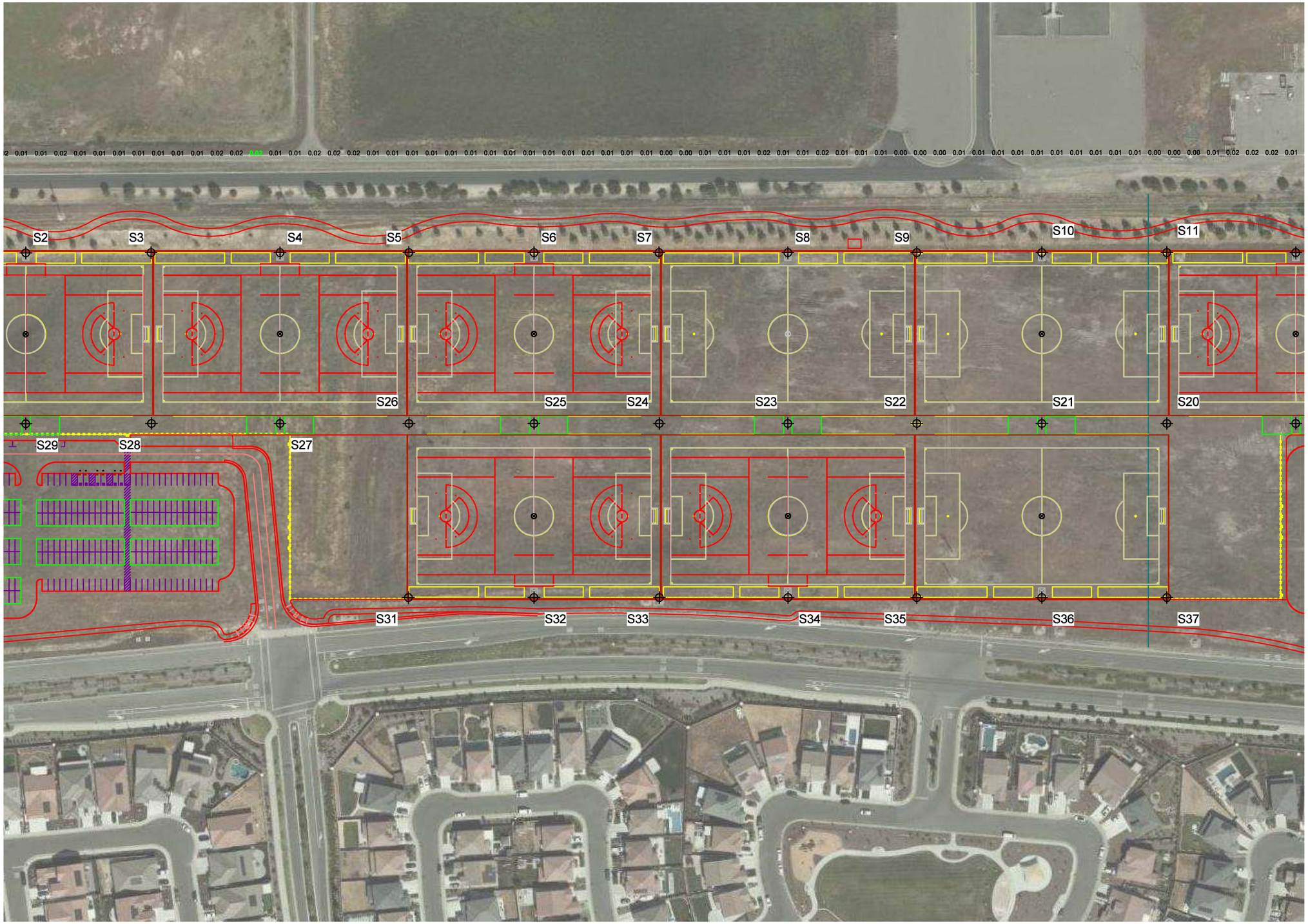
S35
S36
S37
0 0 0



Roseville Soccer Complex

Roseville,CA

GRID SUMMARY

Name:	**East Road Spill - Across Road**
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	0.0108
Maximum:	0.02
Minimum:	0.00
No. of Points:	94

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D, E, F, G, H, I, J
No. of Luminaires:	**214**
Total Load:	283.92 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1 : 150

0' 150' 300'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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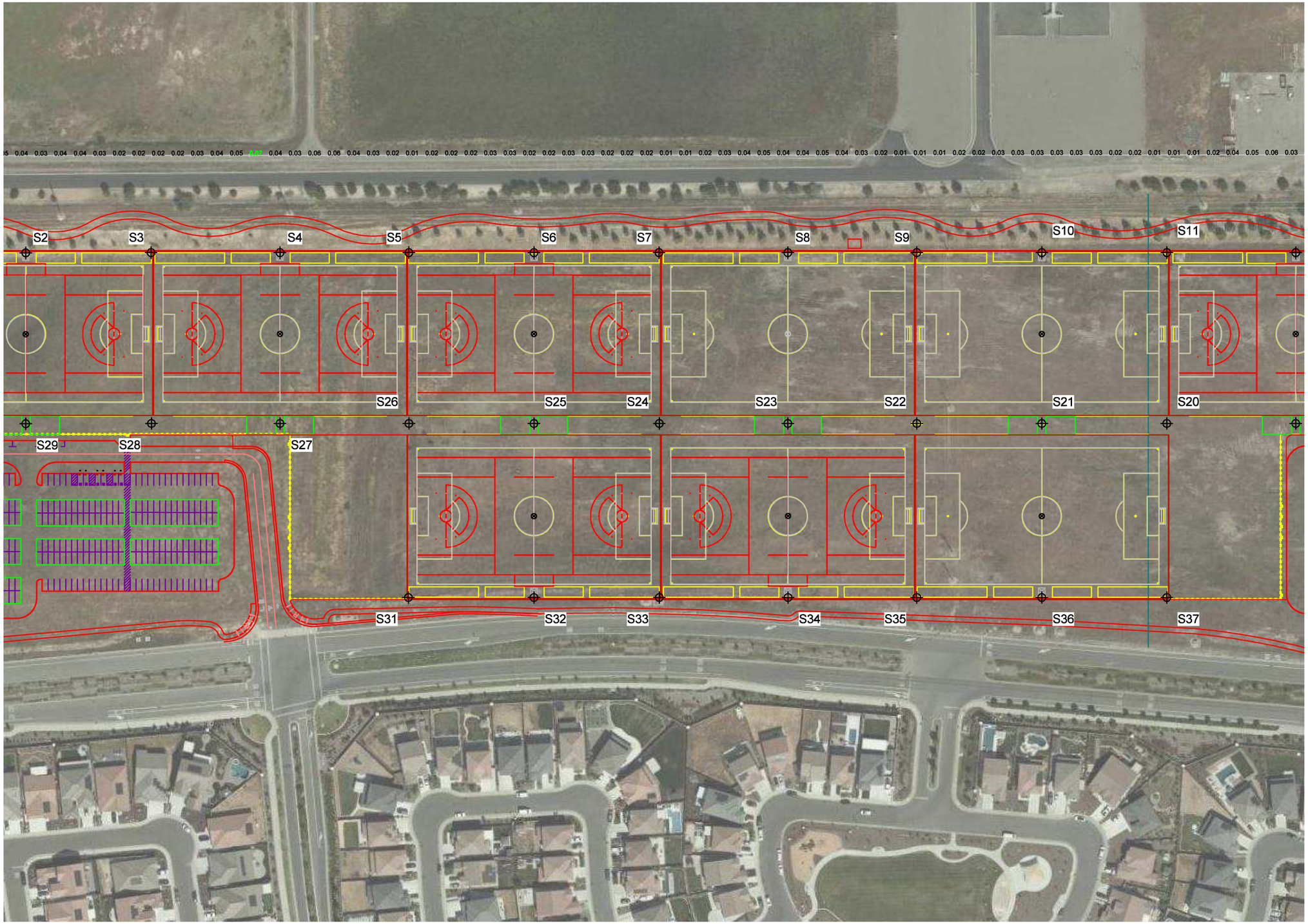

Roseville Soccer Complex

Roseville,CA

GRID SUMMARY

Name:	**East Road Spill - Across Road**
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAX VERTICAL FOOTCANDLES

	Entire Grid
Scan Average:	0.0291
Maximum:	0.07
Minimum:	0.00
No. of Points:	94

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D, E, F, G, H, I, J
No. of Luminaires:	**214**
Total Load:	283.92 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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SCALE IN FEET 1 : 150

0' 150' 300'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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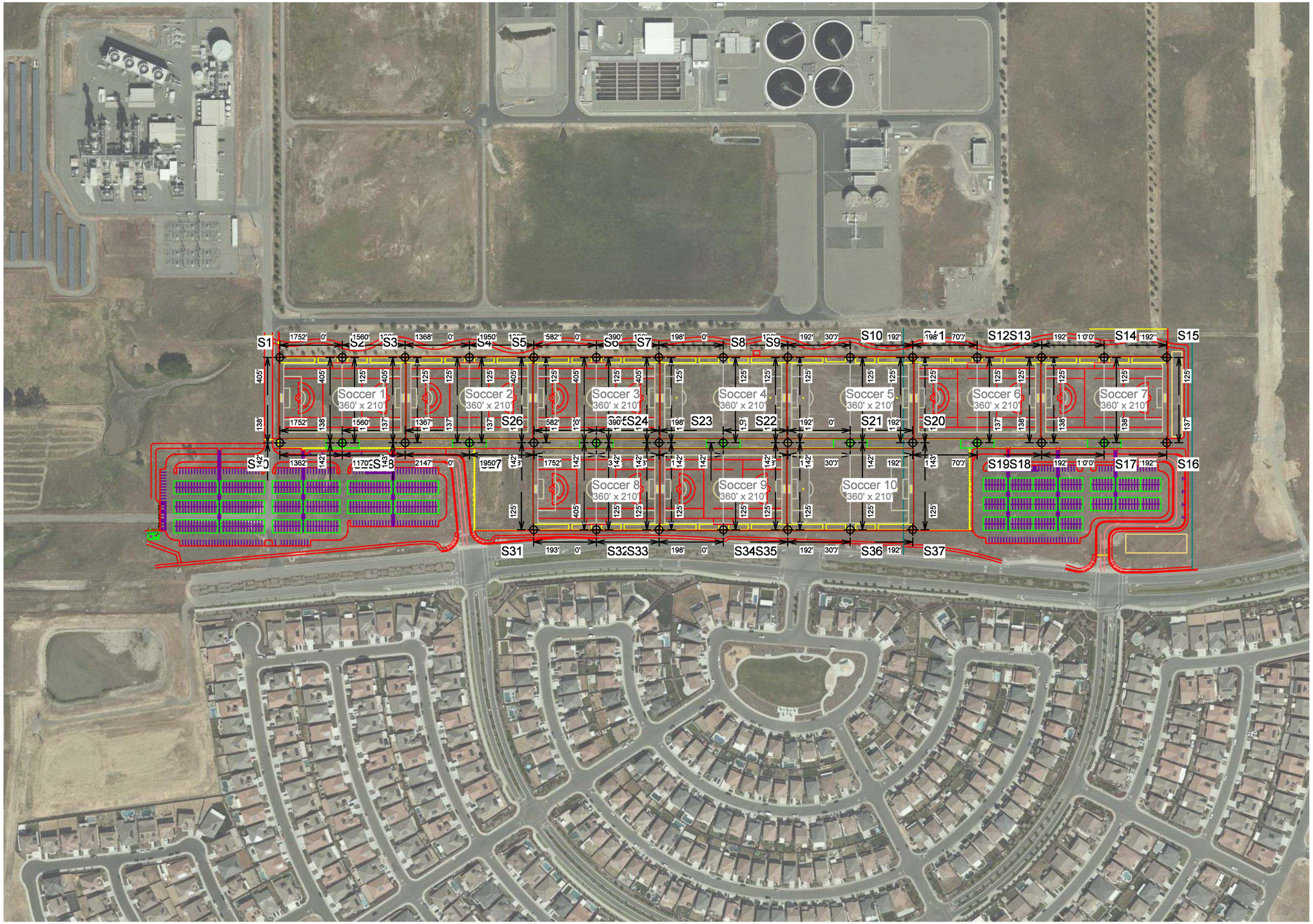

SCALE IN FEET 1 : 300

0' 300' 600'

ENGINEERED DESIGN By: Bryce Miles · File #215342C · 05-May-22

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

Roseville Soccer Complex

Roseville,CA

EQUIPMENT LAYOUT

INCLUDES:

- Soccer 1
- Soccer 10
- Soccer 2
- Soccer 3
- Soccer 4
- Soccer 5
- Soccer 6
- Soccer 7
- Soccer 8
- Soccer 9

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
2	S1, S15	70'	-	70' 70'	TLC-LED-1200 TLC-LED-1500	1 2
11	S10, S12 S14, S17 S19, S27 S2, S4 S29 S6, S8	70'	-	70'	TLC-LED-1500	4
6	S11, S13 S3, S5 S7, S9	70'	-	70' 70'	TLC-LED-1500 TLC-LED-1200	4 2
2	S16, S30	70'	-	70'	TLC-LED-1500	3
1	S18	70'	-	70'	TLC-LED-1500	6
2	S20, S26	70'	-	70'	TLC-LED-1500	6/3*
2	S21, S25	70'	-	70'	TLC-LED-1500	4/4*
2	S22, S24	70'	-	70'	TLC-LED-1500	6/6*
1	S23	70'	-	70' 70'	TLC-LED-1200 TLC-LED-1500	2* 4/2*
1	S28	70'	-	70'	TLC-LED-1500	6
1	S31	70'	-	70' 70'	TLC-LED-1200 TLC-LED-600	2 2
1	S32	70'	-	70' 70' 70'	TLC-LED-600 TLC-LED-900 TLC-LED-1200	2 4 2
1	S33	70'	-	70' 70' 70'	TLC-LED-600 TLC-LED-900 TLC-LED-1200	2 2 4
1	S34	70'	-	70' 70'	TLC-LED-900 TLC-LED-1200	6 2
1	S35	70'	-	70' 70' 70'	TLC-LED-1200 TLC-LED-900 TLC-LED-1500	2 3 2
1	S36	70'	-	70' 70'	TLC-LED-900 TLC-LED-1500	2 4
1	S37	70'	-	70' 70'	TLC-LED-900 TLC-LED-1500	1 2
37	TOTALS					214

* This structure utilizes a back-to-back mounting configuration

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1500	8.5	8.1	7.4	6.4	5.1	4.7	3.7
TLC-LED-1200	7.0	6.6	6.1	5.2	4.2	4.0	3.0
TLC-LED-600	3.4	3.2	3.0	2.6	2.0	1.9	1.5
TLC-LED-900	5.3	5.0	4.6	4.0	3.2	2.9	2.3

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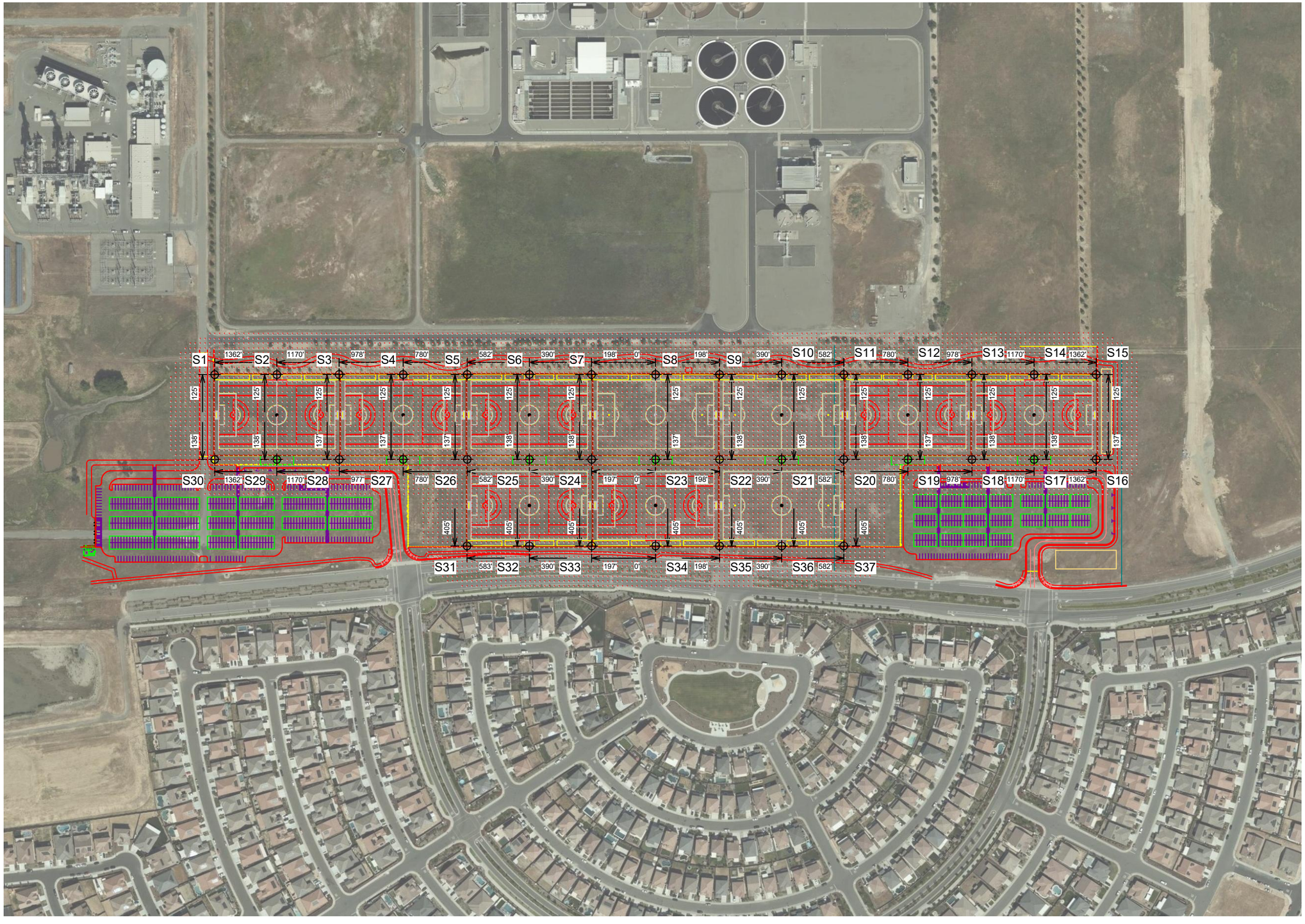

SCALE IN FEET 1 : 300

0' 300' 600'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: Bryce Miles · File #215342D · 03-Jun-22

Roseville Soccer Complex

Roseville,CA

GRID SUMMARY

Name:	**75ft Elev. Blanket Grid**
Size:	360' x 210'
Spacing:	15.0' x 15.0'
Height:	75.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**0.00**
Maximum:	0
Minimum:	0
Avg / Min:	-
Max / Min:	**-**
UG (adjacent pts):	0.00
No. of Points:	8490

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D, E, F, G, H, I, J
No. of Luminaires:	**214**
Total Load:	283.92 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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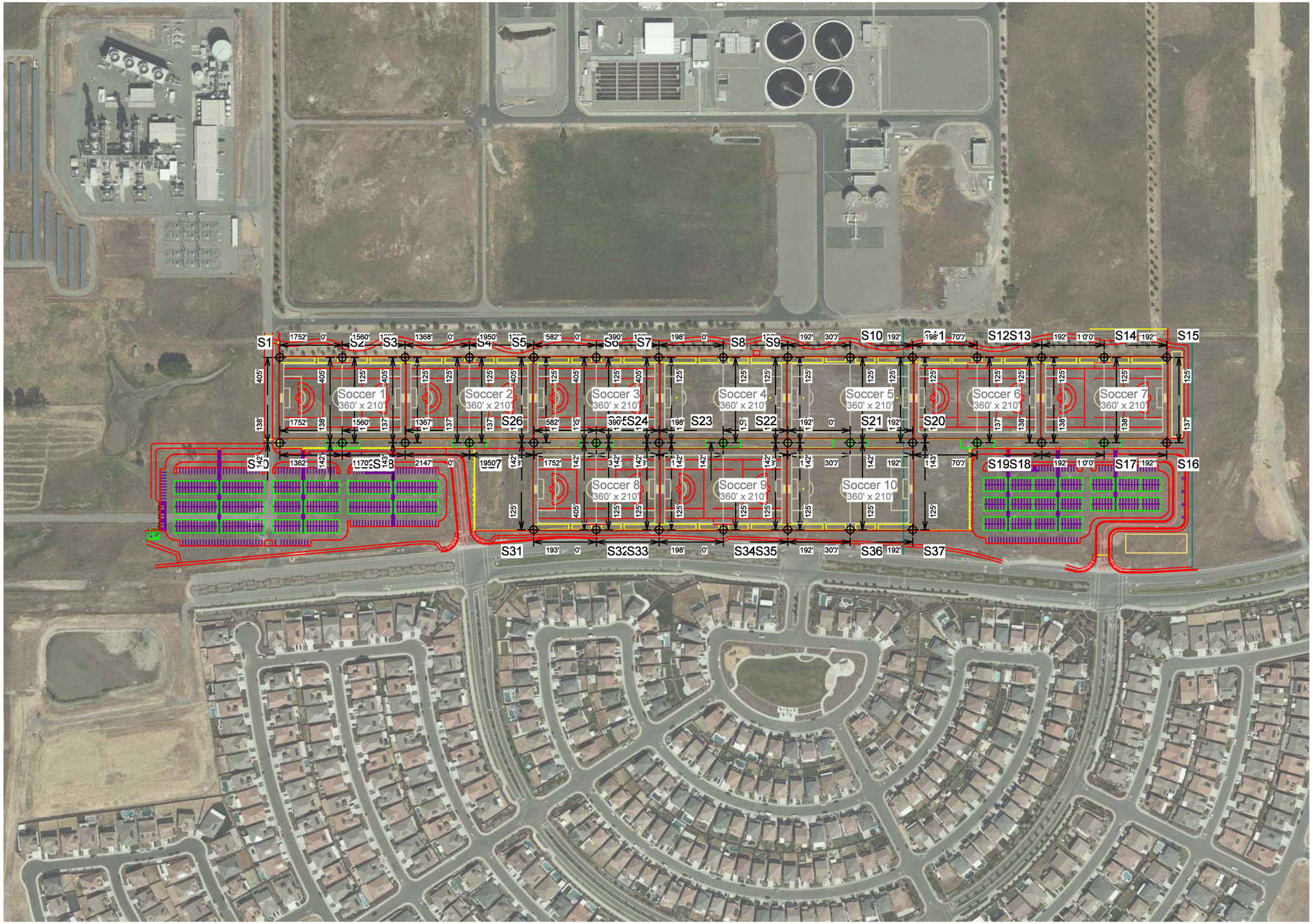

SCALE IN FEET 1 : 300

0' 300' 600'

ENGINEERED DESIGN By: Bryce Miles · File #215342C · 05-May-22

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

Roseville Soccer Complex

Roseville,CA

EQUIPMENT LAYOUT

INCLUDES:

- Soccer 1
- Soccer 10
- Soccer 2
- Soccer 3
- Soccer 4
- Soccer 5
- Soccer 6
- Soccer 7
- Soccer 8
- Soccer 9

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
2	S1, S15	70'	-	70' 70'	TLC-LED-1200 TLC-LED-1500	1 2
11	S10, S12 S14, S17 S19, S27 S2, S4 S29 S6, S8	70'	-	70'	TLC-LED-1500	4
6	S11, S13 S3, S5 S7, S9	70'	-	70' 70'	TLC-LED-1500 TLC-LED-1200	4 2
2	S16, S30	70'	-	70'	TLC-LED-1500	3
1	S18	70'	-	70'	TLC-LED-1500	6
2	S20, S26	70'	-	70'	TLC-LED-1500	6/3*
2	S21, S25	70'	-	70'	TLC-LED-1500	4/4*
2	S22, S24	70'	-	70'	TLC-LED-1500	6/6*
1	S23	70'	-	70' 70'	TLC-LED-1200 TLC-LED-1500	2* 4/2*
1	S28	70'	-	70'	TLC-LED-1500	6
1	S31	70'	-	70' 70'	TLC-LED-1200 TLC-LED-600	2 2
1	S32	70'	-	70' 70' 70'	TLC-LED-600 TLC-LED-900 TLC-LED-1200	2 4 2
1	S33	70'	-	70' 70' 70'	TLC-LED-600 TLC-LED-900 TLC-LED-1200	2 2 4
1	S34	70'	-	70' 70'	TLC-LED-900 TLC-LED-1200	6 2
1	S35	70'	-	70' 70' 70'	TLC-LED-1200 TLC-LED-900 TLC-LED-1500	2 3 2
1	S36	70'	-	70' 70'	TLC-LED-900 TLC-LED-1500	2 4
1	S37	70'	-	70' 70'	TLC-LED-900 TLC-LED-1500	1 2
37	TOTALS					214

* This structure utilizes a back-to-back mounting configuration

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1500	8.5	8.1	7.4	6.4	5.1	4.7	3.7
TLC-LED-1200	7.0	6.6	6.1	5.2	4.2	4.0	3.0
TLC-LED-600	3.4	3.2	3.0	2.6	2.0	1.9	1.5
TLC-LED-900	5.3	5.0	4.6	4.0	3.2	2.9	2.3

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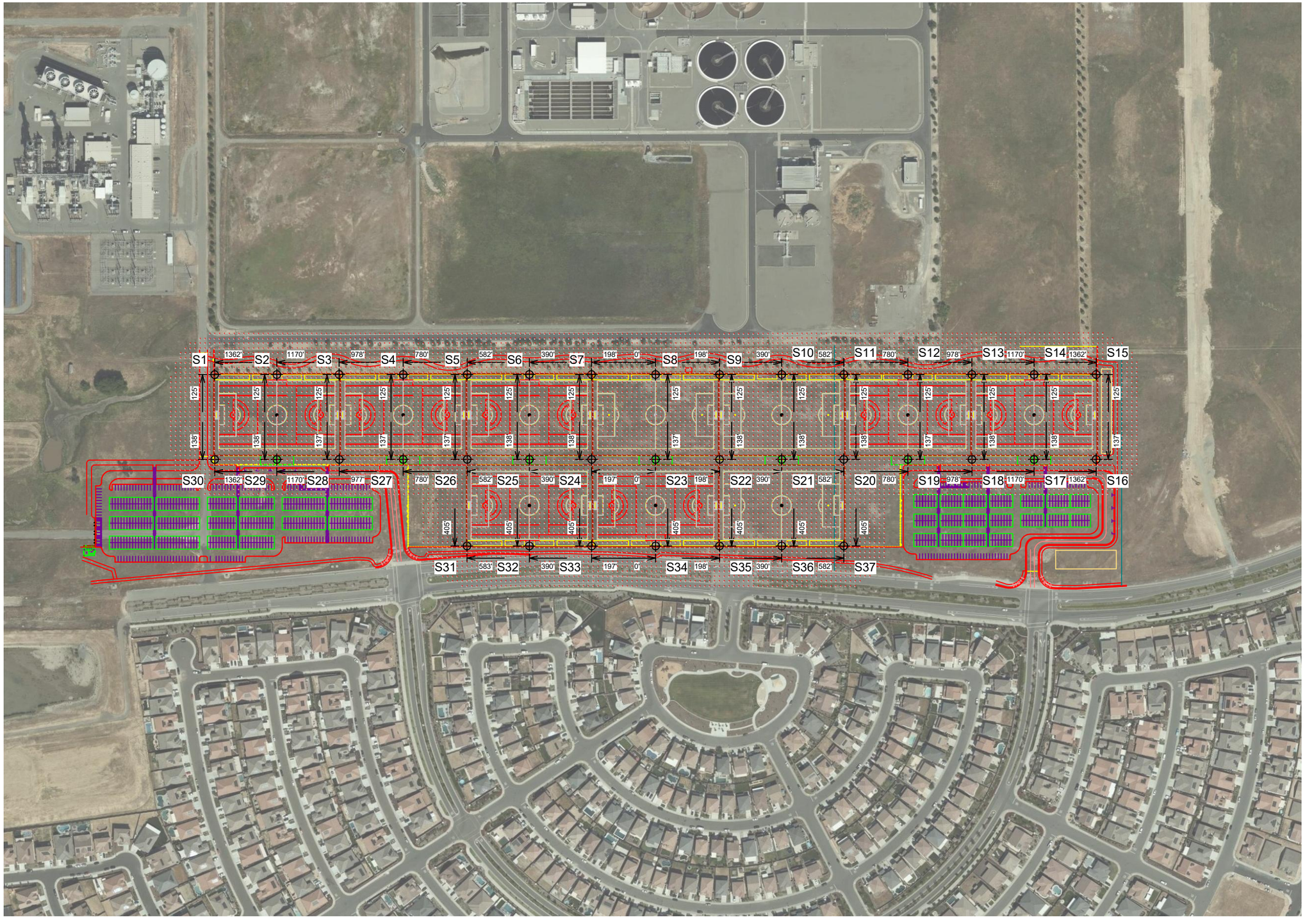

SCALE IN FEET 1 : 300

0' 300' 600'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: Bryce Miles · File #215342D · 03-Jun-22

Roseville Soccer Complex

Roseville,CA

GRID SUMMARY

Name:	**75ft Elev. Blanket Grid**
Size:	360' x 210'
Spacing:	15.0' x 15.0'
Height:	75.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**0.00**
Maximum:	0
Minimum:	0
Avg / Min:	-
Max / Min:	**-**
UG (adjacent pts):	0.00
No. of Points:	8490

LUMINAIRE INFORMATION

Applied Circuits:	A, B, C, D, E, F, G, H, I, J
No. of Luminaires:	**214**
Total Load:	283.92 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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COUNCIL COMMUNICATION

CC #: 2253
File #: 0200

Title: Fiscal Year 2021-22 Third Quarter Financial Report
Contact: Scott Pettingell 916-774-1306 spettingell@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 7.2.

RECOMMENDATION TO COUNCIL

This is an informational item and requires no City Council action.

BACKGROUND

This attached report provides a high-level summary of the City's financial position through the third quarter of FY2021-22 for (1) the General Fund, (2) the enterprise operating funds, and (3) revenues in other selected funds. The attached report is provided pursuant to the Budget Control section of the City Charter (Section 7.15 Budget Control).

FISCAL IMPACT

This item is a financial update only and has no fiscal impact.

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. Financial updates meet the above criteria and are not subject to CEQA. No additional environmental review is required.

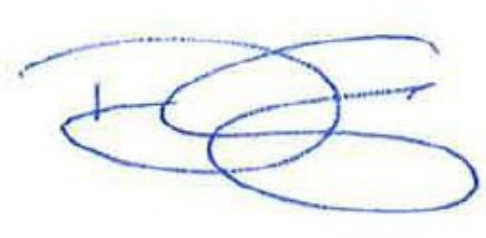
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal A - Remain fiscally responsible in a changing world

Respectfully Submitted,

Scott Pettingell, Assistant Finance Director

Dennis Kauffman, Assistant City Manager/Chief Financial Officer



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Dominick Casey, City Manager

ATTACHMENTS:

Description

FY2021-22 Third Quarter Report



Third Quarter Report Fiscal Year 2021-22

CITY OF ROSEVILLE CALIFORNIA

Third Quarter Report
Fiscal Year 2021-22

Overview

This financial report provides an overview of the City's financial position through the third quarter of the fiscal year (FY) 2021-22 (July 1, 2021 through March 31, 2022) for:

(1) the General Fund;
(2) the major enterprise operating funds; and
(3) revenues in other selected funds.

Considerations

Through the third quarter of FY2021-22, the City continued to feel the impacts of the COVID-19 pandemic, including increasing costs of equipment/fuel/supplies/materials, supply chain issues causing delays in receiving equipment/supplies/materials, challenges in filling vacant positions because of increased attrition and reduced number of applicants, and continued reduced attendance to city programs/services (e.g., Parks, Recreation and Libraries, Adventure Club, and Transit).

As detailed in this report, the City's major tax revenues, i.e., sales tax and hotel tax, have recovered from the impacts of the pandemic; however, the pandemic continued to affect the revenue and expenses of some City programs, including Adventure Clubs, transit and recreation programs, through the third quarter of FY2021-22.

General Fund:

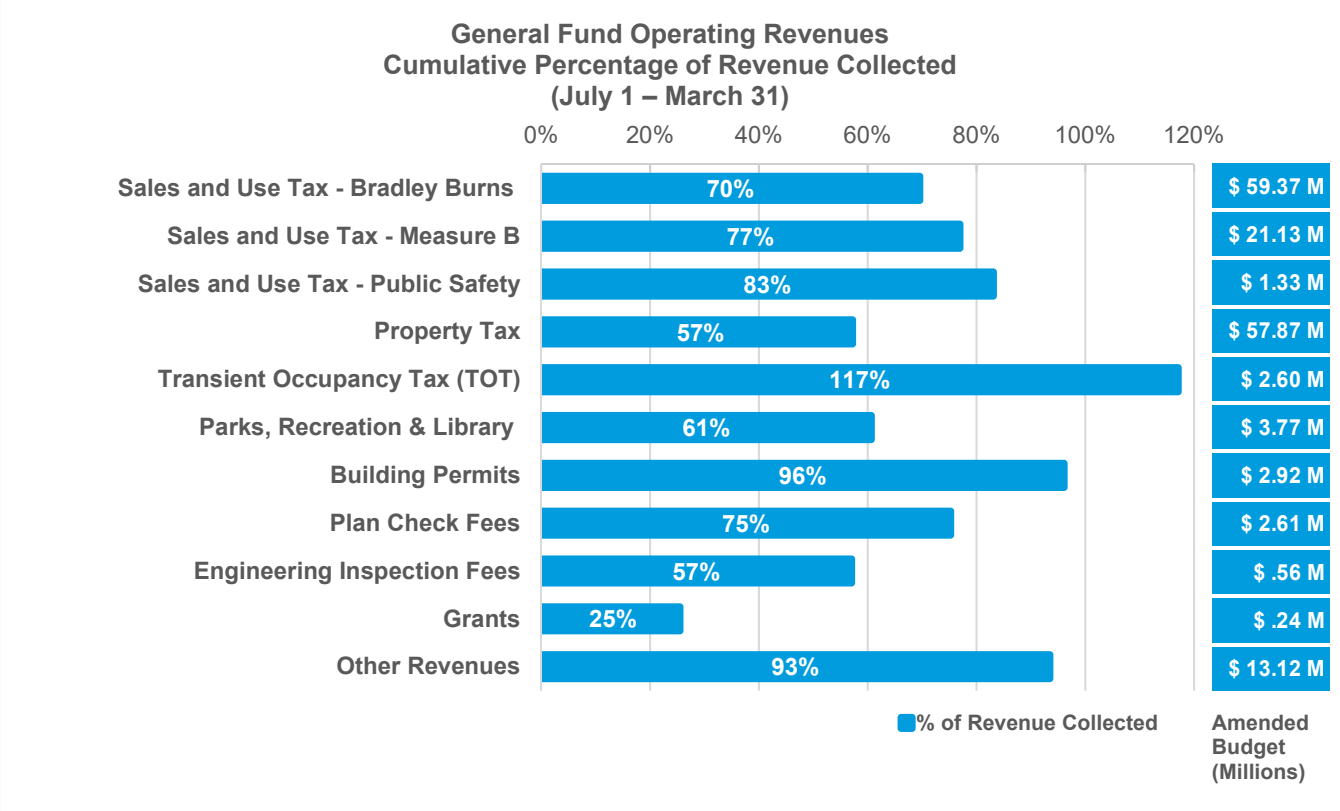
The following factors should be taken into consideration when analyzing third-quarter data:

- More than half of property tax revenue was received in mid-January, but the rest will be received in mid-May.
- Sales tax revenue is derived from taxable sales through January 2022.
- Some costs are incurred early in the fiscal year (for example, some contracts like annual memberships), with variances smoothing out over the fiscal year.

General Fund: Operating Revenues

The following table includes cumulative General Fund operating revenue through the third quarter and a revenue budget to actual comparison for FY2021-22.

Revenue Type	Budget to Cumulative Revenue Comparison (July 1 – March 31)			
	Amended Budget	Cumulative Revenues	Balance Remaining	% of Budget
Sales and Use Tax - Bradley Burns	$ 59,371,253	$ 41,298,176	$ (18,073,077)	70%
Sales and Use Tax - Measure B	21,127,000	16,253,207	(4,873,793)	77%
Sales and Use Tax - State Aid for Public Safety	1,327,300	1,102,619	(224,681)	83%
Property Tax	57,867,840	33,098,484	(24,769,356)	57%
Transient Occupancy Tax (TOT)	2,600,000	3,043,830	443,830	117%
Parks, Recreation & Library Programs	3,765,768	2,283,947	(1,481,821)	61%
Building Permits	2,920,836	2,806,604	(114,232)	96%
Plan Check Fees	2,606,322	1,960,940	(645,382)	75%
Engineering Inspection Fees	558,000	318,166	(239,834)	57%
Grants	239,535	60,985	(178,550)	25%
Other Revenues	13,118,564	12,260,709	(857,855)	93%
Total	**$ 165,502,418**	**$ 114,487,667**	**$ (51,014,751)**	**69%**



General Fund operating revenues collected through the third quarter are at 69 percent of the budget primarily due to the timing associated with receiving some of the more significant tax revenue sources. For instance, property tax is the second largest General Fund revenue source, but most of this funding is received in two installments. The second installment is received during the fourth quarter of the fiscal year. The following is an explanation of the notable variances:

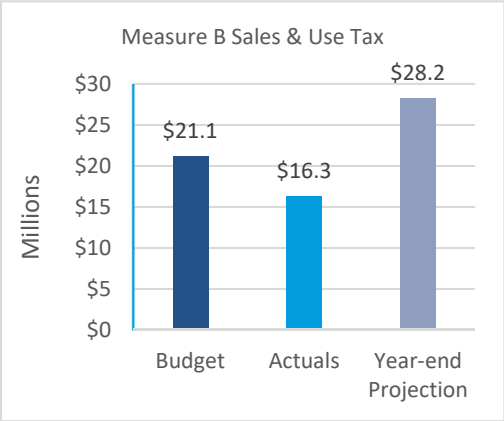
- **Bradley Burns and Measure B Sales Tax** – The City's Bradley Burns and Measure B Sales Tax revenues through the third quarter are 70 percent and 77 percent of the budget. Sales tax revenue received by the City through the third quarter is derived from taxable sales through January 2022.

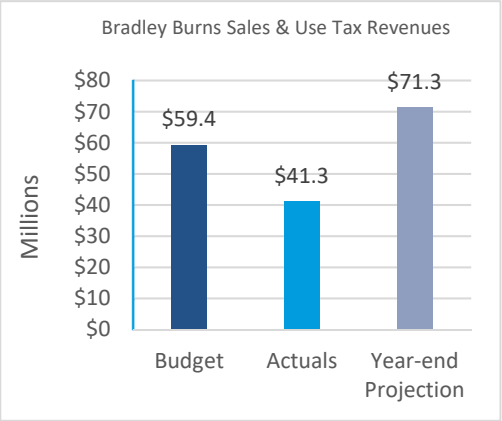
  To date, the City has received Bradley Burns and Measure B Sales Tax distributions from taxable sales through the end of May. These amounts total $65,074,858 in Bradley Burns Sales Tax and $25,845,866 in Measure B Sales Tax.

  Based on the City's sales tax consultant's latest sales tax analysis and forecast, these revenues will exceed the revenue budget due to inflation and strong economic activity in the general retail, food products, transportation, and construction sectors. The consultant provides a year-end forecast that includes conservative, most-likely, and optimistic scenarios (see chart below). The consultant's most-likely forecast indicates that revenues may end at $71.3 million (Bradley Burns) and $28.2 million (Measure B), or $11.9 million and $7.1 million above adopted budget estimates, respectively.

Revenue Type	Amended Budget	Conservative	Most-Likely	Optimistic
Sales and Use Tax - Bradley Burns	$ 59,371,253	$ 66,110,500	$ 71,316,619	$ 76,522,700
Sales and Use Tax - Measure B	21,127,000	25,602,400	28,258,770	30,915,100
Total	**$80,498,253**	**$ 91,712,900**	**$ 99,575,389**	**$107,437,800**

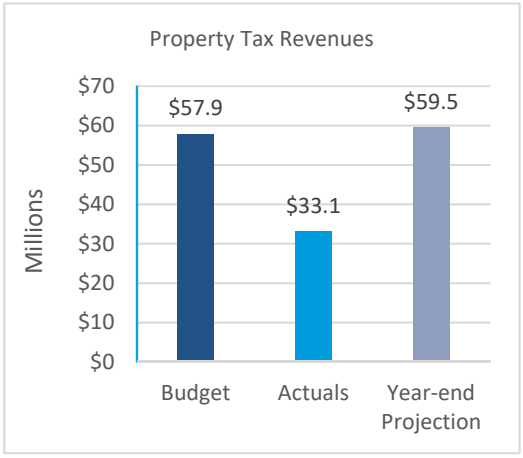
The provided graphs show Bradley Burns and Measure B Sales and Use Tax revenues as compared to budget and the projected year-end results.





Additional Sales Tax Information: The City's sales tax consultant has prepared a detailed sales tax report and business activity. The report provides a list of the top 25 sales tax remitters, a summary of cash receipts, and sales tax data by economic category. A copy of the report is attached to the end of this report.

- **Secured, Unsecured and Supplemental Property Tax** Property tax revenues are at 57 percent of revenues, or $33.1 million, as of the end of the third quarter. The City collects most of the second installment of property taxes during the fourth quarter of the fiscal year. As of June 2022, the City has received $57.7 million in property tax revenues. Based on the information provided by the County Assessor and the City's property tax consultant, staff anticipates that this will end the year at $59.5 million or approximately $1.6 million above estimates.



- **Transient Occupancy Tax (TOT) -** The City's TOT revenues, also known as the hotel tax, are tracking higher than anticipated. Through the end of the third quarter, revenues are at 117% of estimates, at $3 million compared to the budget target amount of $2.6 million. Hotel tax collected through May 2022 exceeded budget estimates at approximately $4 million. Staff budgeted a conservative amount of TOT in FY2021-22 due to the economic uncertainty of the pandemic last spring when the current year budget was developed. The City's TOT consultant projects that the City will end the year at $4.17 million or approximately $1.6 million above estimates.

- **Parks, Recreation & Library (PR&L) Programs -** Parks, Recreation & Libraries (PRL) program revenues are 61 percent of the budget through the third quarter. FY2021-22 has been a rebuilding year, with COVID-19 pandemic impacts affecting the first and second quarters. Although revenue continued to be low through the third quarter compared to budget, PRL expects improvement during the fourth quarter. Programs and events are back, sports teams are on the fields, and parks and trails are as busy. The PR&L Department anticipates offsetting any revenue shortfall with expenditure savings from materials, services, supplies, and vacancies.

- **Building Permits, Plan Check Fees, Engineering Inspection Fees -** Building permit revenues are trending higher than budget due to sustained increases in the City's development activity. Building plan check revenues are on budget as of the third quarter. Inspection fees are trending lower than budget at 57 percent but are offset by a corresponding increase in secondary labor cost recovery

due to workload shifting toward more full-cost projects. Staff anticipates that overall revenues in this category will exceed budget by the end of the fiscal year.

- **Grants -** Grant revenues through the third quarter are at 25 percent of budget due to the timing of the claims.

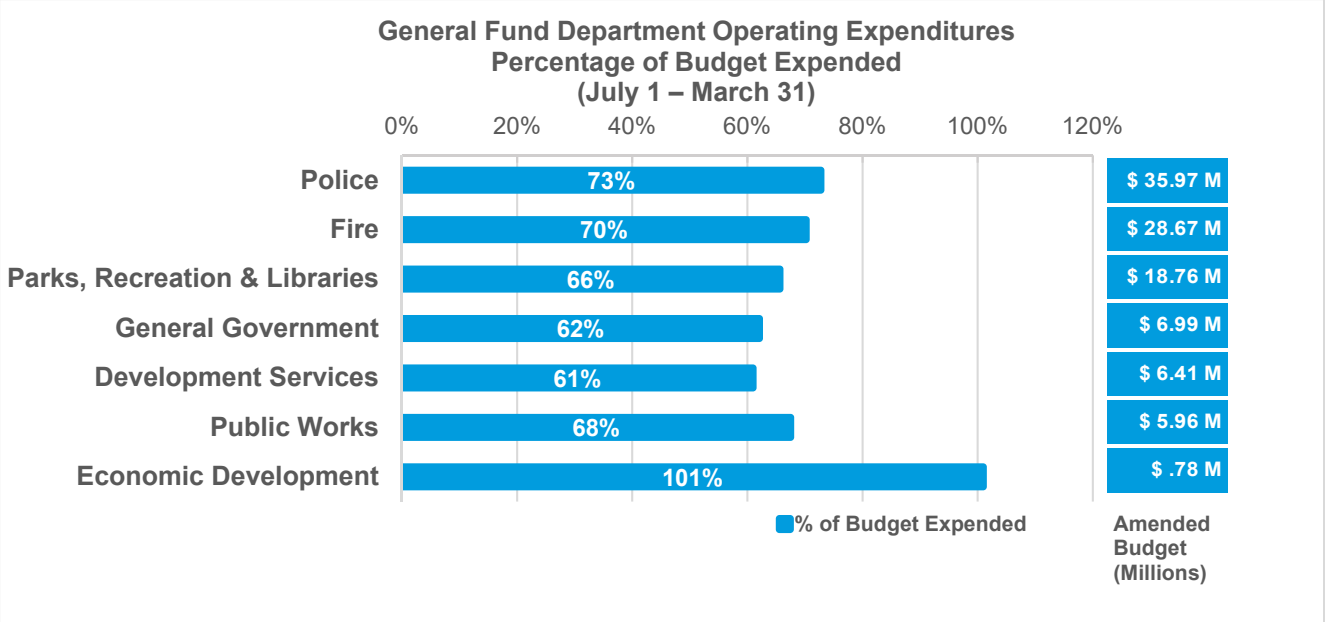
- **Other Revenues -** Other revenues include reimbursements from the State, development reimbursement activity, property transfer tax, business license tax, rental payments, animal licensing, passport processing, permit, franchise, and other fees. As of the end of the third quarter, revenues in this category are at 93 percent of budget estimates.

General Fund: Operating Expenditures

The following table includes cumulative third quarter expenditure comparisons for General Fund departments for FY2021-22.

Department	Budget to Cumulative Expenditure Comparison (July 1 – March 31)			
	Amended Budget	Cumulative Expenditures	Balance Remaining	% of Budget
Police	$ 49,440,606	$ 35,967,133	$ 13,473,473	73%
Fire	40,847,185	28,674,675	12,172,510	70%
Parks, Recreation & Libraries	28,579,790	18,760,568	9,819,222	66%
General Government*	11,261,944	6,991,634	4,270,310	62%
Development Services	10,517,471	6,411,292	4,106,179	61%
Public Works	8,824,707	5,957,737	2,866,970	68%
Economic Development & Housing	769,809	777,292	(7,483)	101%
Total	**$ 150,241,512**	**$ 103,540,331**	**$ 46,701,181**	**69%**

(1) *General Government includes the following departments: City Council, City Manager's Office, City Attorney's Office, City Clerk, Finance, Public Affairs and Communications, and Human Resources.*



General Fund expenditures are tracking below target compared to the budget at 69 percent through the third quarter of the fiscal year. The slightly lower spending rate (69 percent versus 75 percent of the year elapsed) is primarily due to cost savings from vacancies in the Parks, Recreation and Libraries, Development Services, Public Works, and other General Fund departments.

The expenditure budget consumption for the Police Department is on target at 73 percent. The Fire Department is trending 5 percent lower than budget due to equipment, maintenance, and facility rehabilitation expenditures anticipated to occur in the fourth quarter. Both public safety departments are expected to remain within budget for the remainder of the fiscal year.

Parks, Recreation & Libraries expenditures are 66 percent of the budget due to cost controls in materials, services, supplies, and temporary and full-time position vacancies. As mentioned earlier in this report, these savings will offset anticipated revenue shortages.

The lower spending rate in the Public Works Department is primarily due to reduced seasonal operations in the winter months and substantial vacancies experienced through the end of the third quarter. Expenditures in the fourth quarter are expected to increase once positions are filled. Staff anticipates that the Public Works Department will end the year under budget.

Development Services expenditures are at 61 percent of the budget through the third quarter due to a decreased need for various office supplies and equipment and reduced training and travel costs as continued effects of the pandemic. Staff anticipates that overall expenditures will increase slightly in the

fourth quarter as office attendance and training return to in-person settings; however, overall department expenditures are expected to end the fiscal year under budget.

The Economic Development Department has exceeded its budget through the third quarter primarily due to leave payoffs, membership payments paid at the beginning of the fiscal year, and the timing associated with posting reimbursements for labor costs in the Housing division. The Housing Division is budgeted in the General Fund and reimbursed from several housing-related funds (i.e., Housing Authority Housing Choice Voucher and Community Development Block Grant). Staff will process the necessary reimbursements to fully reimburse the General Fund by the end of the fiscal year. Funding for leave payoffs resulting from retirement is budgeted centrally in the General Fund. As needed, these funds will be moved to Economic Development at the end of the year to ensure the Department does not exceed its budget.

Enterprise Funds: Operating Revenues and Expenditures

Revenues

Operating revenues in the Electric Fund are tracking 11 percent higher than budget due to increased retail sales attributable to multiple factors such as new development, hydroelectric surcharge, approved rate increases, warmer than average temperatures, and stronger than expected customer usage. Water Operations revenues are on target through the third quarter at 75 percent. Wastewater revenues are tracking low by 4 percent due to the timing of expense reimbursements from regional partners, which are primarily collected during the third and fourth quarters. Waste Services revenues are higher than anticipated at 86 percent due to increased residential consumption and new development.

	Budget to Cumulative Revenue Comparison (July 1 – March 31)			
	Amended Budget	Cumulative Revenues	Balance Remaining	% of Budget
Electric Operations	$ 157,844,817	$ 136,273,497	$ (21,571,320)	86%
Water Operations	38,914,237	29,168,908	(9,745,329)	75%
Wastewater Operations	48,668,113	34,641,694	(14,026,419)	71%
Waste Services Operations	34,202,968	29,299,259	(4,903,709)	86%
Transit	7,034,718	462,986	(6,571,732)	7%
Transportation	1,925,389	25,751	(1,899,638)	1%
Youth Development	7,080,654	4,341,997	(2,738,657)	61%

The larger budget to actual variances in the Transit and Transportation enterprise funds is due to the timing associated with their primary funding streams. This year the majority of their revenue will be realized in the last two months of the fiscal year.

Transit operating revenues continue to experience the effects of reduced services and losses in passenger fares due to low ridership resulting from COVID-19 through the third quarter of FY2021-22. Although demand for commuter services has slowly increased over the past year, a 35 percent reduction in commuter service remains since most State government employees, who constitute the bulk of commuter passengers,

continue to telework at least two to three days per week. The American Rescue Plan Act (ARPA) of 2021 will continue to support Roseville Transit operations during the remainder of the fiscal year. Transportation revenues are expected to be on budget through the end of the fourth quarter, once Local Transportation Funds are recognized at year-end.

Revenues in the Youth Development fund are 61 percent of the budget through the third quarter of the fiscal year. While enrollment continues to rebound, some factors such as requirements established for childcare services to limit attendance due to cohort restrictions by licensing, parents continuing to work from home, and temporary part-time staff shortages continue contributing to the reduced revenues. The revenue shortfall through year-end will be covered by controlling expenditures, and support from ARPA funding.

	Budget to Cumulative Expenditure Comparison (July 1 – March 31)			
	Amended Budget	Cumulative Expenditures	Balance Remaining	% of Budget
Electric Operations	$ 136,025,613	$ 94,256,466	$ 41,769,147	69%
Water Operations	34,867,532	21,300,931	13,566,601	61%
Wastewater Operations	48,370,406	30,203,659	18,166,747	62%
Waste Services Operations	34,390,350	22,147,309	12,243,041	64%
Transit	7,086,554	4,485,420	2,601,134	63%
Transportation	1,945,843	1,153,259	792,584	59%
Youth Development	8,104,298	4,473,110	3,631,188	55%

Expenditures

Operating expenditures for the Electric fund are trending lower than budget through the third quarter at 69 percent due to vacancies and rebate programs savings resulting from fewer commercial energy efficiency projects and lower residential energy efficiency program participation. Spending in the Environmental Utilities is tracking lower than budget due to vacant positions and COVID-related limitations on operational plans, including travel and training. Transit and Transportation expenditures are lower than anticipated due to vacancies, operational adjustments related to transit ridership reductions reflected in reduced contracts and fuel costs, and timing of spending.

Youth Development Fund expenditures are at 55% of budget through the third quarter due to the measures taken to reduce operational costs to mitigate the impact of decreased enrollment. The Youth Development Fund's FY2021-22 budget indicated an expected shortfall. While a shortfall is still expected, it is projected to be less than budget. Staff will address this anticipated year-end deficit with support from American Rescue Plan Act funds in the proposed FY2022-23 budget.

Other Revenue

	Budget to Cumulative Revenue Comparison (July 1 – March 31)				
	FY2020-21 Actual	Amended Budget	Cumulative Revenues	Balance Remaining	% of Budget
Fire Facilities	$ 1,864,130	$ 1,549,601	$ 1,734,291	$ 184,690	112%
Public Facilities	4,848,709	3,583,637	4,303,696	720,059	120%
Strategic Improvement	3,331,323	4,602,041	4,261,667	(340,374)	93%

The table presented shows revenues in the Fire Facilities, Public Facilities, and Strategic Improvement Funds through the third quarter of FY2020-21 and FY2021-22. The revenue estimates for these three funds are generally based on a multi-year trend analysis of forecasted single-family, multi-family, commercial development, and prior-year revenue collections. The sustained increase in development activity throughout the City during the first three-quarters of FY2021-22 has caused revenues in the Fire Facilities, Public Facilities, and Strategic Improvement Funds to exceed budget estimates, with 37 percent, 45 percent, and 18 percent, respectively, above budget target. After the approval of the FY2021-22 budget, the revenue estimate in the Strategic Improvement Fund was increased by $2.5 million to $4.6 million via transfers for the use of 243.4 acres of vacant land by the Environmental Utilities Department for future operational requirements.

City of Roseville



Quarterly Report on Sales Tax and Business Activity

Top 25 Sales Tax Remitters

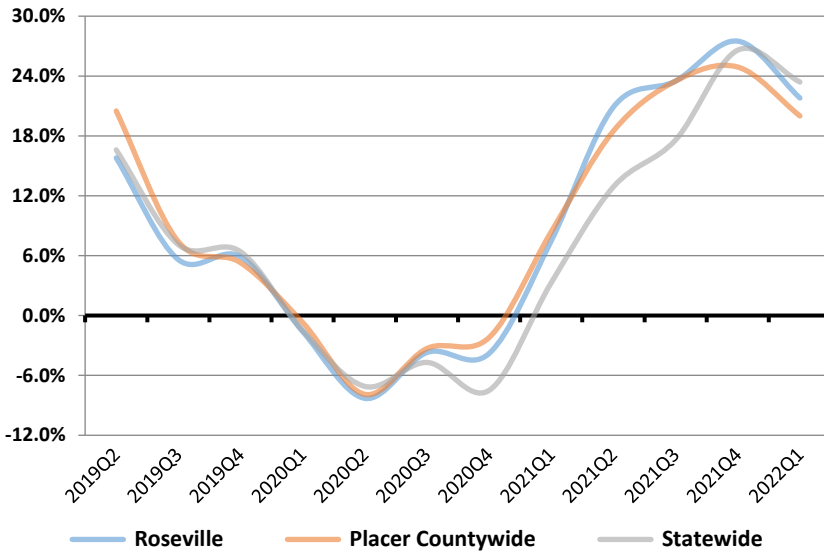
ARCO AM/PM MINI MARTS
AUTONATION CHRYSLER DODGE JEEP RAM ROSEVILLE
AUTONATION HONDA
BEST BUY STORES
BMW OF ROSEVILLE
CARMAX AUTO SUPERSTORES
CHEVRON SERVICE STATIONS
COSTCO WHOLESALE
FUTURE FORD
FUTURE NISSAN
GMC RELIABLE
HOME DEPOT
JOHN L SULLIVAN CHEVROLET
LEXUS OF ROSEVILLE
LOWE'S HOME CENTERS
MACY'S DEPARTMENT STORE
MCKESSON MEDICAL -SURGICAL
NIELLO ACURA
NORDSTROM DEPARTMENT STORE
ROSEVILLE HYUNDAI
ROSEVILLE TOYOTA & SCION
SAM'S CLUB
TARGET STORES
VANDERBEEK MOTORS
WAL MART STORES

1st Quarter 2022 in Review

California sales tax cash receipts increased by 19% from the same quarter last year. In this jurisdiction sales tax cash receipts increased by 11.6% from the same quarter last year due to a increase of $172,737,000 in Taxable Sales.

Cash Receipts	Quarter	Annual
Roseville	11.6%	21.8%
Placer Countywide Pool	-1.5%	3.8%
Placer Countywide	13.7%	20.0%
Sacramento Valley Region	15.9%	20.9%
Statewide	19.0%	23.4%

Annualized Percent Change in Sales Tax Cash Receipts



Business Activity	Roseville Quarter	Roseville Annual	Sacramento Valley Quarter	Sacramento Valley Annual	California Quarter	California Annual
General Retail (e.g., dept. stores, misc. retail)	**14.5%**	**32.0%**	7.3%	36.0%	6.8%	25.5%
Food Products (e.g., markets and restaurants)	**20.8%**	**28.9%**	16.7%	24.6%	19.5%	29.4%
Transportation (e.g., new & used autos, gas stations)	**7.7%**	**20.2%**	11.2%	19.4%	15.5%	20.3%
Construction (e.g., retail & wholesale construction)	**12.6%**	**11.3%**	18.5%	17.4%	3.0%	3.1%
Business To Business (e.g., IT, industrial equip. etc.)	**1.3%**	**2.8%**	18.7%	14.0%	5.8%	6.4%
TOTAL LOCAL BUSINESS ACTIVITY	**11.0%**	**22.0%**	12.8%	23.4%	10.7%	18.7%
COUNTYWIDE POOL ACTIVITY	**-3.4%**	**5.3%**	9.7%	2.0%	14.7%	6.1%

City of Roseville



News

- **Economic Activity:** Real Gross Domestic Product (GDP) decreased at an annual rate of 1.6% in the first quarter of 2022, according to the "third" estimate released by the Bureau of economic Analysis. U.S. inflation accelerated to 7.9% in February of 2022, while California's inflation, accelerated from 7.5% in January of 2022 to 8.3% year-over-year in March of 2022. (BEA, BLS, March Finance Bulletin)

- **Employment:** The U.S. unemployment rate fell from 3.8% in February 2022 to 3.6% in March 2022. California's unemployment rate decreased from 5.3% in February 2022 to 4.9% in March 2022.
(April Finance Bulletin)

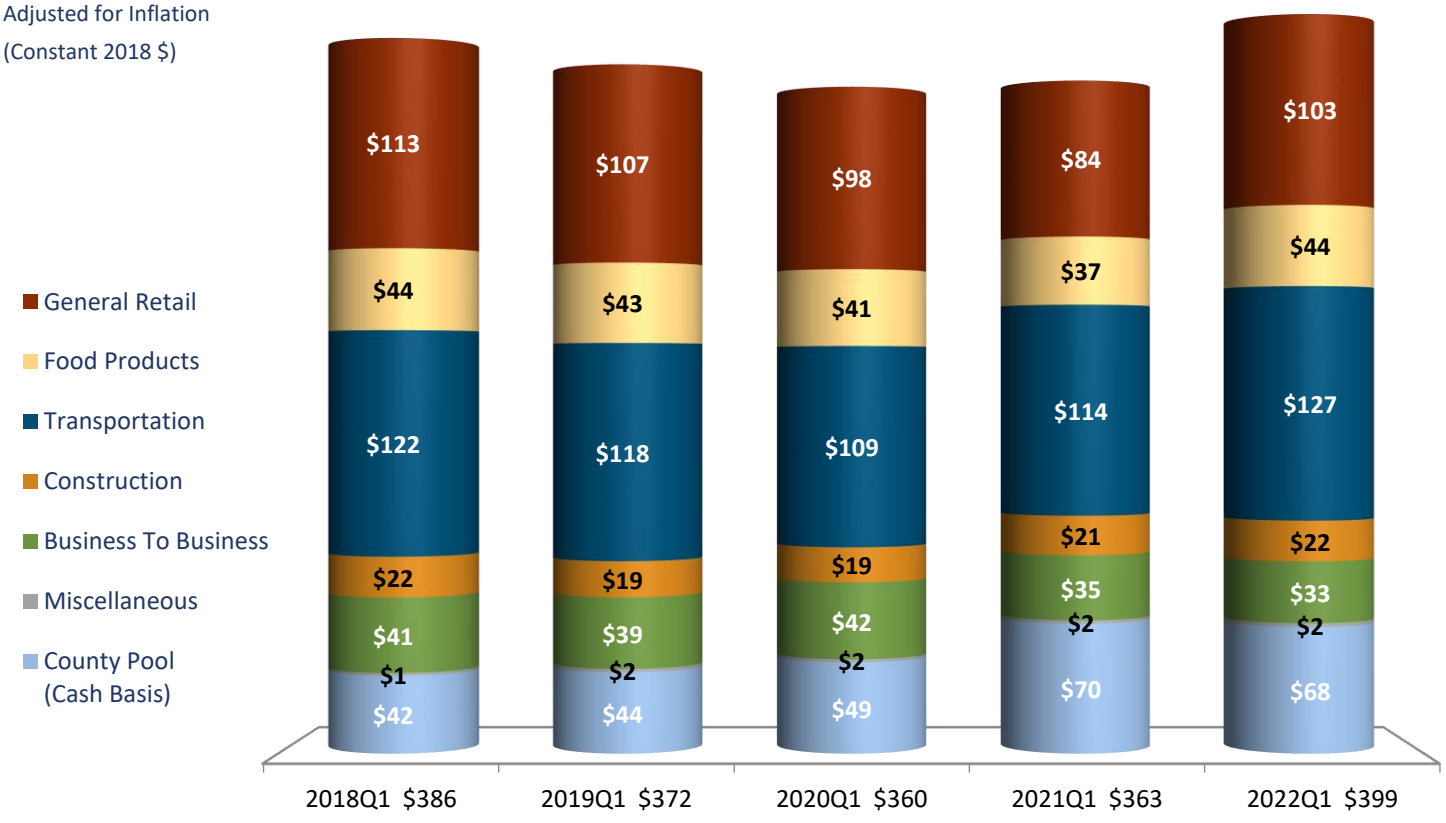
- **Personal Income:** U.S. personal income decreased by 3.0% for the first quarter of 2022, compared to same quarter previous year. (BEA)

Roseville

Annual Per Capita Sales Tax

Adjusted for Inflation

(Constant 2018 $)



COUNCIL COMMUNICATION

CC #: 2265
File #: 0200 & 0400-04-09-01

Title:	Tax and Equity Fiscal Responsibility Act Hearing - Hayden Parkway Apartments
Contact:	Jeannine Thrash 916-774-5473 jthrash@roseville.ca.us Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

Meeting Date: 8/17/2022
Item #: 8.1.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council:

1. Conduct a Tax Equity and Fiscal Responsibility Act (TEFRA) Hearing in consideration of the issuance of tax-exempt bond financing by the California Statewide Communities Development Authority (CSCDA) for the benefit of Fiddyment Affordable Partners, L.P., to provide financing for the acquisition, construction, improvement, and equipping of a 94-unit multifamily rental housing project generally known as Hayden Parkway Apartments; and

2. Adopt a resolution approving the issuance of Bonds by the CSCDA not to exceed $28,000,000, for the benefit of Fiddyment Affordable Partners, L.P., to provide financing for the acquisition, construction, improvement, and equipping of a 94-unit multifamily rental housing project generally known as Hayden Parkway Apartments.

BACKGROUND

Fiddyment Affordable Partners, L.P. (the Borrower) has requested that the CSCDA serve as the municipal issuer of tax-exempt multi-family housing revenue bonds in an aggregate principal amount not to exceed $28,000,000 (the Bonds). The proceeds of the Bonds will be used for the purpose of CSCDA making a loan to the Borrower, to enable the Borrower to finance the acquisition, construction, improvement and equipping of a 94-unit affordable multifamily housing rental project located at North Hayden Parkway and Crawford Parkway, in Roseville, California (the Project), which will be owned and operated by the Borrower.

On June 15, 2022 the Project received an award of private activity bond allocation from the California Debt Limit Allocation Committee. The Project will contain a mix of one, two, and three-bedroom units ranging from 638 sq. ft. to 1,130 sq. ft., and limited to those earning less than 60% of the area median income. The Project is organized around a communal, landscaped amenity space, anchored by a one-story community clubhouse complex. Amenities will include a community room, pool, outdoor barbecue, on-site service coordinator, after-school care for school-age children during the school year, and green space for outdoor activities. Construction of

these units assists the City in meeting its Regional Housing Needs Allocation (RHNA) from the State of California and offers affordable housing opportunities to the local workforce and community. The City's Affordable Rental Housing Agreement (ARHA) for the affordable units will return to the City Council for action prior to the issuance of building permits for this project.

In order for all or a portion of the Bonds to qualify as tax-exempt bonds, the City must conduct a public 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. Adoption of the attached resolution is solely for the purposes of satisfying the requirements of the Tax Equity and Fiscal Responsibility Act (TEFRA), the Internal Revenue Code and the California Government Code Section 6500 et seq. Prior to such TEFRA Hearing, reasonable notice must be provided to the members of the community. 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.

CSCDA is a joint powers authority sponsored by the League of California Cities (League) and the California State Association of Counties (CSAC). CSCDA was created by the League and CSAC in 1988 to enable local government and eligible private entities access to low-cost, tax-exempt financing for projects that provide a tangible public benefit, contribute to social and economic growth and improve the overall quality of life in local communities throughout California. CSCDA is comprised of more than 530 members, including the City of Roseville. CSCDA has issued more than $70 billion through 1,800+ financings since 1988 and consistently ranks in the top 10 of more than 3,000 nationwide public issuers of tax-exempt debt, as measured by annual issuance amount.

FISCAL IMPACT

There is no fiscal impact to the City. The Bonds will be issued as limited obligations of CSCDA, payable solely from revenues and receipts derived from a loan to be made by CSCDA to the Borrower with the Bond proceeds. The City bears no liability with respect to the issuance of the Bonds. Further, the City is not a party to any of the financing documents related to the Bond issuance and is not named in any of the disclosure documents describing the Bonds or the proposed financing.

ENVIRONMENTAL REVIEW

Environmental review for the Hayden Parkway project is occurring independent of this particular action, which is solely regarding tax-exempt bond financing. 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.

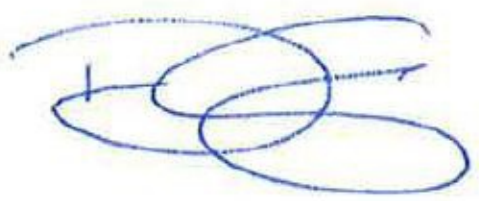
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Jeannine Thrash, Management Analyst

Dennis Kauffman, Assistant City Manager/Chief Financial Officer



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Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 22-327

Notice of Hearing

RESOLUTION 22-327

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE APPROVING THE ISSUANCE BY THE CALIFORNIA STATEWIDE COMMUNITIES DEVELOPMENT AUTHORITY OF EXEMPT FACILITY BONDS FOR THE HAYDEN PARKWAY APARTMENTS

WHEREAS, the California Statewide Communities Development Authority (the "Authority") is authorized pursuant to the provisions of California Government Code Section 6500 et seq. and the terms of an Amended and Restated Joint Exercise of Powers Agreement, dated as of June 1, 1988 (the "Agreement"), among certain local agencies throughout the State of California, including the City of Roseville (the "City"), to issue revenue bonds in accordance with Chapter 7 of Part 5 of Division 31 of the California Health and Safety Code for the purpose of financing multifamily rental housing projects; and

WHEREAS, Fiddyment Affordable Partners, L.P. or a partnership of which Hampstead Development Partners, Inc. (the "Developer") or a related person to the Developer is the general partner, has requested that 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 $28,000,000 in outstanding aggregate principal amount (the "Bonds"), to finance or refinance the acquisition, construction and development of a multifamily rental housing project located at 2801 North Hayden Parkway, Roseville, California (the "Project"); and

WHEREAS, pursuant to Section 147(f) of the Code, prior to their issuance, the Bonds are required to be approved by the "applicable elected representative" of the governmental units on whose behalf such bonds are expected to be issued and by a governmental unit having jurisdiction over the entire area in which any facility financed by such bonds is to be located, after a public hearing held following reasonable public notice; and

WHEREAS, the members of this City Council (this "City Council") are the applicable elected representatives of the City; and

WHEREAS, there has been published, at least 7 days prior to the date hereof, in a newspaper of general circulation within the City, a notice that a public hearing regarding the Bonds would be held on a date specified in such notice; and

WHEREAS, such public hearing was conducted on such date, at which time an opportunity was provided to interested parties to present arguments both for and against the issuance of the Bonds; and

WHEREAS, the Authority is also requesting that the City Council approve the issuance of any refunding bonds hereafter issued by the Authority for the purpose of refinancing the Bonds which financed the Project (the "Refunding Bonds"), but only in such cases where federal tax laws would not require additional consideration or approval by the City Council; and

WHEREAS, it is intended that this resolution shall constitute the approval of the issuance of the Bonds required by Section 147(f) of the Code and Section 9 of the Agreement;

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 and the Refunding 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 9 of the Agreement.

Section 2. The officers of the City are hereby authorized and directed, jointly and severally, to do any and all things and to execute and deliver any and all documents that 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 approved hereby.

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 Bonds for the financing of the Project.

Section 4. This resolution shall take effect from and after its passage and approval.

PASSED AND ADOPTED by the Council of the City of Roseville this____day of_____, 2022, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
Mayor

ATTEST:

_____
City Clerk

NOTICE OF PUBLIC HEARING
REGARDING ISSUANCE OF
MULTIFAMILY HOUSING REVENUE BONDS FOR
HAYDEN PARKWAY APARTMENTS

NOTICE IS HEREBY GIVEN that, at 6:00 p.m., or as soon thereafter as the matter can be heard, on Wednesday, August 17, 2022, 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 Statewide Communities Development 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 $28,000,000 in outstanding aggregate principal amount, to finance or refinance the acquisition, construction and development of a multifamily rental housing project located at 2801 North Hayden Parkway, Roseville, California. The facilities are to be owned by Fiddyment Affordable Partners, L.P. (the "Borrower") or a partnership of which Hampstead Development Partners, Inc. (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 or email to CityClerk@roseville.ca.us.

CITY CLERK
CITY OF ROSEVILLE

Dated: _____, 2022