

City of San Diego

CONTRACTOR'S NAME: Orion Construction Corporation/Balboa Construction Inc., Joint Venture

ADDRESS: 2185 La Mirada Drive, Vista, CA 92081

TELEPHONE NO.: 760-597-9660 **FAX NO.:** 760-597-9661 (fax)

CITY CONTACT: Angelica Gil, Contract Specialist, Email: AngelicaG@san Diego.gov

Phone No. (619) 533-3622, **Fax No.** (619) 533-3633

M. Lazovic / A. Rekani / LJI

PROPOSAL DOCUMENTS



FINAL



FOR

MACC TASK NUMBER: 08

AC WATER AND SEWER GROUP 1024

RFQ NO.:	<u>1293</u>
PROPOSAL NO.:	<u>K-18-1561-MAC-3</u>
SAP NO. (WBS/IO/CC):	<u>B-16082, B-16083</u>
CLIENT DEPARTMENT:	<u>2000</u>
COUNCIL DISTRICT:	<u>4, 9</u>
PROJECT TYPE:	<u>KB, JA</u>

THIS TASK IS SUBJECT TO THE FOLLOWING:

- PHASED-FUNDING
- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM
- PREVAILING WAGE RATES: STATE FEDERAL
- APPRENTICESHIP

PROPOSALS DUE:

12:00 NOON

NOVEMBER 8, 2017

CITY OF SAN DIEGO

PUBLIC WORKS CONTRACTS

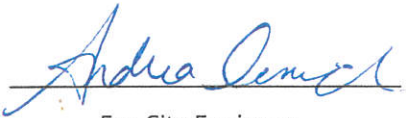
1010 SECOND AVENUE, 14th FLOOR, MS 614C

SAN DIEGO, CA 92101

ATTN: CONTRACT SPECIALIST

DEPUTY CITY ENGINEER

The engineering Specifications and Special Provisions contained herein have been review and approved by the following Registered Engineer:


For City Engineer


Date

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REQUEST FOR PROPOSAL

1. INTRODUCTION

- 1.1. This is the City of San Diego's (City) second step in the two-step solicitation process to acquire Design-Build services for the **AC Water and Sewer Group 1024 (MACC Task number 08)** Design-Build project.
- 1.2. Pursuant to the City's Request for Qualifications (**RFQ 1293**), this RFP is being issued exclusively to the previously selected firms who have each been awarded a Multiple Award Construction Contract (MACC) with the City:
 - 1.2.1. CASS Construction
 - 1.2.2. El Cajon Grading & Engineering Company, Inc.
 - 1.2.3. Orion Construction Corp/Balboa Construction, Inc. J.V.
 - 1.2.4. TC Construction Company
- 1.3. All MACC awardees are to submit a responsive good-faith Proposal for this Task Order. Failure to do so may result in the City's rescinding the award of the MACC contract. MACC awardees who fail to submit Proposals twice in twelve month period may have their MACC contract rescinded and be ineligible to submit future proposals.
- 1.4. Failure to submit all requested information in accordance with the requirements of the RFP may be cause for disqualification.

2. **SUMMARY OF WORK:** This is the City solicitation process to acquire Design-Build services for a Design-Build project to **AC Water and Sewer Group 1024**. For additional information refer to Attachment A.

3. **COMPETITION:** This RFP is being issued only to the shortlisted contractors pursuant to **RFQ 1293**.

4. **PROPOSAL DUE DATE AND TIME ARE: NOVEMBER 8, 2017.**

5. **ESTIMATED PROJECT COST:** The City's estimated cost for this project is **\$11,900,000**.

6. **LICENSE REQUIREMENT:** The City has determined that the following licensing classifications are required for this contract: **A** or **C34**

7. **CONTRACT PERIOD:** Project shall be completed within **812 Working Days** from the Notice to Proceed (NTP).

8. **PREVAILING WAGE RATES APPLY TO THIS CONTRACT:** Refer to Attachment D.

9. **PHASED FUNDING:** For Phased Funding Conditions, see Attachment B.

10. SUBCONTRACTING PARTICIPATION PERCENTAGES:

- 10.1. All Equal Opportunity Contracting (EOC) information provided by the Design-Builder and requirements set forth in the RFQ shall apply to the RFP process. The Design-Builder shall review the information, data, and documentation provided in the Design-Builder’s SOQ and changes shall be clearly identified in the Proposal; otherwise the information, as previously submitted, will be deemed complete and accurate.
- 10.2. The mandatory minimum subcontractor participation percentages for this RFP are as follows:

SERVICES	SLBE	ELBE	DVBE	Subcontracting Requirement ¹
Design Services	6.10%	8.40%	1.60 %	16.10 %
Construction Services	7.10%	15.20%	3.90%	26.20 %

Notes:

- 1. Subcontracting Requirement is the percentage of the individual contract elements i.e., Design Services or Construction Services.
- 10.3. The Design-Builder shall submit subcontractor participation percentages that are not less than the specified subcontracting requirements.
- 10.4. The required subcontracting percentages apply to 1st tier Subcontractors only.
- 10.5. For the purpose of achieving the proposed subcontractor participation percentage, Allowance Proposal Items will not be included in the calculation. The Design-Builder may not substitute DVBE for SLBE/ELBE or SLBE/ELBE for DVBE. Subcontracting percentages for design and construction may not be substituted for one another.
- 10.6. The Proposal shall be deemed non-responsive if the Subcontractor and Supplier listings submitted and enclosed with the Price Proposal fail to meet the above minimum required subcontracting participation levels.
- 10.7. The Design-Builders’ Proposals will be further evaluated for their commitment to the City’s principles of equal opportunity as specified in this RFP. See Attachment “Proposal Submittal Requirements and Selection Criteria” for more information

11. CONTRACTOR LICENSE AND PREQUALIFICATION STATUS:

- 11.1. The Design-Builder must possess a Class **Class A or C34** California State Contractor’s license.
- 11.2. The Design-Builder must be prequalified up to the total amount proposed, including any alternates or options, at the time of submission of the proposal.

- 11.3.** The Design-Builder’s California State License and City of San Diego prequalification status as specified herein must be valid at time of submission.

12. SELECTION AND AWARD SCHEDULE:

- 12.1.** The City anticipates that the process for selecting a Design-Builder and awarding the contract will be according to the following tentative schedule. Dates are subject to change:

12.1.1. Pre-Proposal Meeting	October 26, 2017
12.1.2. Proposal Due Date	November 8, 2017
12.1.3. Selection and Notification	December 7, 2017
12.1.4. Limited Notice to Proceed	January 9, 2018

13. PRE-PROPOSAL MEETING AND SITE VISIT:

- 13.1.** Those wishing to submit a Bid are **required** to attend the Pre-Bid Meeting. The purpose of the meeting is to discuss the scope of the Project, submittal requirements, the pre-qualification process and any Equal Opportunity Contracting Program requirements and reporting procedures. To request a sign language or oral interpreter for this visit, call the Public Works Contracts Division at (619) 533-3450 at least 5 Working Days prior to the meeting to ensure availability. Failure to attend the Mandatory Pre-Bid Meeting may result in the Design-Builder’s Bid being deemed non-responsive. The Pre-Bid meeting is scheduled as follows:

Date: October 26, 2017
Time: At 10:00 a.m
Location: 1010 Second Avenue, Suite 1400 (Large Conf. Room), San Diego, CA 92101

Attendance at the Pre-Submittal Meeting will be evidenced by the Bidder’s representative’s signature on the attendance roster. It is the responsibility of the Bidder’s representative to complete and sign the attendance roster.

Bidders may not be admitted after the specified start time of the mandatory Pre-Bid Meeting.

INSTRUCTIONS TO PROPOSERS AND GENERAL CONDITIONS

1. PREQUALIFICATION OF CONTRACTORS AND CALIFORNIA STATE LICENSE:

- 1.1 The Design-Builder's California State License and City of San Diego prequalification status as specified herein must be valid at time of submission. Failure to comply with these requirements may result in the proposal being deemed non responsive and ineligible for further consideration.
- 1.2 Contractors submitting proposals must be pre-qualified for the total amount proposed, inclusive of all alternate items or specified Task Order limits prior to the date of submittal. Proposals from contractors who have not been pre-qualified as applicable and Proposals that exceed the maximum dollar amount at which contractors are pre-qualified may be deemed **non-responsive** and ineligible for award. Complete information and links to the on-line prequalification application are available at:

<http://www.sandiego.gov/cip/bidopps/prequalification.shtml>
- 1.3 The completed application must be submitted online no later than two (2) weeks prior to the Proposal due date. For additional information or the answer to questions about the prequalification program, contact David Stucky at 619-533-3474 or dstucky@sandiego.gov.
- 1.4 Due to the City's responsibility to protect the confidentiality of the contractors' information, City staff will not be able to provide information regarding contractors' prequalification status over the telephone. Contractors may access real-time information about their prequalification status via their vendor profile on [PlanetBids™](#).

2. ELECTRONIC FORMAT RECEIPT AND OPENING OF PROPOSALS: **Proposals will be received in electronic format (eBids) EXCLUSIVELY** at the City of San Diego's electronic bidding (eBidding) site, at: <http://www.sandiego.gov/cip/bidopps/index.shtml> and are due by the date, and time shown on the cover of this solicitation.

- 2.1 **PROPOSERS MUST BE PRE-REGISTERED** with the City's bidding system and possess a system-assigned Digital ID in order to submit an electronic proposal.
- 2.2 The City's bidding system will automatically track information submitted to the site including IP addresses, browsers being used and the URLs from which information was submitted. In addition, the City's bidding system will keep a history of every login instance including the time of login, and other information about the user's computer configuration such as the operating system, browser type, version, and more. Because of these security features, Contractors who disable their browsers' cookies will not be able to log in and use the City's bidding system.

- 2.3** Upon entry of their proposal, the system will ensure that all required fields are entered. **The system will not accept a proposal for which any required information is missing.** This includes all necessary pricing, subcontractor listing(s) and any other essential documentation and supporting materials and forms requested or contained in these solicitation documents.
- 2.4 PROPOSALS REMAIN SEALED UNTIL DUE DATE AND TIME.** eBids and eProposals are transmitted into the City's bidding system via hypertext transfer protocol secure (https) mechanism using SSL 128-256 bit security certificates issued from Verisign/Thawte which encrypts data being transferred from client to server. Proposals submitted prior to the Due Date and Time are not available for review by anyone other than the submitter, who will have until the Due Date and Time to change, rescind or retrieve its proposal should they desire to do so.
- 2.5 PROPOSALS MUST BE SUBMITTED BY DUE DATE AND TIME.** Once the deadline is reached, no further submissions are accepted into the system. Once the Due Date and Time has passed, bidders, proposers, the general public, and City staff are able to immediately see the results on line. City staff may then begin reviewing the submissions for responsiveness, Equal Opportunity Contracting Program (EOCP) compliance and other issues.
- 2.6 TECHNICAL PROPOSAL AND PRICE PROPOSAL ARE TO BE SEPARATE.** The proposer is to submit two separate proposal PDFs by the due date and time.
1. The Technical proposal, which should contain the items detailed below and in Attachment G. There is to be **NO PRICING** information within this proposal. If a Technical proposal contains pricing information, the submission may be deemed non-responsive and ineligible for further consideration, and
 2. The Price proposal, which should detail the cost structure and include any forms as required herein.
- 2.7 RECAPITULATION OF THE WORK.** Proposals shall not contain any recapitulation of the Work. Conditional proposals may be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.
- 2.8 PROPOSALS MAY BE WITHDRAWN** by the Proposer prior to, but not after, the time set as Due Date and Time.
- 2.8.1 Important Note:** Submission of the electronic proposal into the system may not be instantaneous. Due to the speed and capabilities of the user's internet service provider (ISP), bandwidth, computer hardware and other variables, it may take time for the proposer's submission to upload and be received by the City's eBidding system. It is the proposer's sole responsibility to ensure their proposals are received on time by the City's eBidding system. The City of San Diego is not responsible for proposals that do not arrive by the required date and time.

2.9 ACCESSIBILITY AND AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE. : To request a copy of this solicitation in an alternative format, contact the Public Works Contract Specialist listed in the cover of this solicitation at least five (5) working days prior to the Proposal due date to ensure availability.

3. ELECTRONIC SUBMISSIONS CARRY FULL FORCE AND EFFECT

3.1 The proposer, by submitting its electronic proposal, acknowledges that doing so carries the same force and full legal effect as a paper submission with a longhand (wet) signature.

3.2 By submitting an electronic proposal, the proposer certifies that the proposer has thoroughly examined and understands the entire Contract Documents (which consist of the plans and specifications, drawings, forms, affidavits and the solicitation documents), and that by submitting the eBid as its proposal, the proposer acknowledges, agrees to and is bound by the entire Contract Documents, including any addenda issued thereto, and incorporated by reference in the Contract Documents.

3.3 The Proposer, by submitting their electronic proposal, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certification, forms and affidavits submitted as part of this proposal are true and correct.

4. PROPOSALS ARE PUBLIC RECORDS: Upon receipt by the City, proposals shall become public records subject to public disclosure. It is the responsibility of the respondent to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the proposal's General references to sections of the California Public Records Act (PRA) will not suffice. If the Contractor does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant to any other applicable law, or by order of any court or government agency, and the Contractor will hold the City harmless for release of this information.

5. JOINT VENTURE CONTRACTORS: Provide a copy of the Joint Venture agreement and the Joint Venture license to the City within 10 Working Days after receiving the Contract forms. See 7-6, "The Contractors Representative" in The GREENBOOK and 7-6.1 in The WHITEBOOK.

6. Each properly signed Proposal shall constitute a firm offer that may be accepted by the City within the time frame specified herein.

7. This RFP will not commit the City to award a contract, to defray any costs incurred in the preparation of a Proposal pursuant to this RFP, or to procure or contract for the Work.

8. Selection announcements, contract awards, and all data provided by the City shall be protected by the Design-Builder from public disclosure. The Design-Builders desiring to release information to the public shall receive prior written approval from the City.

9. Design-Builders who submit a response to this RFP agree to provide the required services in accordance with the terms and conditions noted in this RFP and its attachments upon award by the City. The agreement and other terms and conditions are included in the Design-Build Contract, The GREENBOOK, The WHITEBOOK, and the Supplementary Special Provisions (SSP).
10. Any architectural firms, engineering firms, specialty consultants, or individuals retained by the City to assist in drafting the RFPs or the Project's preliminary design may not be eligible to participate in the competition with any Design-Build Entity without the prior written consent of City. Any architectural firms, engineering firms, specialty consultants, or individuals retained by the City to assist in drafting any Reference Documents, such as the Water Department's Master Plan and any other document that was not prepared specifically for this contract, are considered to be eligible to participate.

11. EQUAL OPPORTUNITY CONTRACTING

11.1 As set forth in this RFP, the City is dedicated to the principles of equal opportunity in the workplace and in subcontracting. It is the City's expectation that firms doing business with the City have, and are able to demonstrate, the same level of commitment.

11.2 The Design-Builders are encouraged to take positive steps to diversify and expand their subcontractor solicitation base and to offer contracting opportunities to all eligible certified Subcontractors in accordance with the City's EOCP requirements included in the Contract Documents.

11.3 Design-Builder's Work Force

11.3.1 The Design-Builders shall submit with its Proposal a Work Force Report (EOC Form BB05) and prior to award of contract, the successful Design-Builder shall submit to the City's EOCP office an updated Work Force Report or an Equal Employment Opportunity (EEO) Plan.

11.3.2 If under representations are noted in the Work Force Report when compared to County Labor Force Availability data, the Design-Builder shall submit an Equal Opportunity Plan. Any Equal Employment Opportunity Plan submitted shall include the elements as outlined in the EOCP Requirements included in The WHITEBOOK.

11.3.3 The specified Equal Opportunity Contracting Program (EOCP) forms are available for download from the City's web site at:

<http://www.sandiego.gov/eoc/forms/index.shtml>

11.4 Nondiscrimination Ordinance (Municipal Code §§ 22.2701-22.2708)

- 11.4.1** The Design-Builder shall not discriminate on the basis of race, gender, gender expression, gender identity, religion, national origin, ethnicity, sexual orientation, age or disability in the solicitation, selection, hiring or treatment of the Subcontractors and Suppliers. The Design-Builder shall provide equal opportunity for Subcontractors to participate in subcontracting opportunities. The Design-Builder understands and agrees that violation of this clause shall be considered a material breach of the contract and may result in contract termination, debarment or other sanctions.
- 11.4.2** This language shall be in contracts between the Design-Builder and any Subcontractors and Suppliers.
- 11.4.3** As part of its Proposal, the Design-Builder shall provide to the City a list of all instances within the last 10 years where a complaint was filed or pending against Design-Builder in a legal or administrative proceeding alleging that Design-Builder discriminated against its employees, the Subcontractors, or Suppliers, and a description of the status or resolution of that complaint, including any remedial action taken. If there have not been any complaints filed or pending against Design-Builder, a written statement from the Design-Builder to confirm shall be included in the Proposal.

11.5 Contractor Registration and Electronic Reporting System

- 11.5.1** Prior to the award of the Contract, the Design-Builder, Subcontractors, and Suppliers must register with the City's web-based vendor registration and bid management system, BidsOnline, hosted by PlanetBids System. For additional information go to:

<http://www.sandiego.gov/purchasing/bids-contracts/vendorreg.shtml>.

- 11.5.2** The City may not award the contract until registration of all subcontractors and suppliers is complete. In the event this requirement is not met within the time frame specified in the Notice of Intent to Award letter, the City reserves the right to rescind the Notice of Award / Intent to Award and to make the award to the next responsive and responsible bidder / proposer
- 11.5.3** Following the award of the Contract, the Design-Builder will be required to use the City's web-based contract compliance application for EOCP reporting purposes e.g., Weekly Certified Payroll, Monthly Employment Utilization, and Monthly Payments. Online tutorials are available at:

<http://stage.prismcompliance.com/etc/vendortutorials.htm>

11.5.4 The City may retain progress payments if:

11.5.4.1 The non-registered Design-Builder, Subcontractors, or Suppliers fail to register,

11.5.4.2 EOCP reporting is delinquent or inadequate, or

12 PRE-PROPOSAL ACTIVITIES

12.1 Submission of Questions

12.1.1 The Director (or designee) of the Public Works Department is the officer responsible for opening, examining, and evaluating the competitive Proposals submitted to the City for the acquisition, construction, and completion of any public improvement except when otherwise set forth in these documents. All questions related to this solicitation shall be submitted to:

Public Works Contracts
1010 Second Avenue, 14th Floor
San Diego, California, 92101
Attention: Contract Specialist listed on the front cover of this RFP.

OR:

To the Email address of the Contract Specialist listed on the front cover of this RFP.

12.1.2 Questions received less than 14 Days prior to the Proposal due date may not be considered.

12.1.3 Questions or clarifications deemed by the City to be material shall be answered via issuance of an addendum and posted to the City's online bidding service.

12.1.4 Only questions answered by formal written addenda shall be binding. Oral and other interpretations or clarifications shall be without legal effect. It is the Design-Builder's responsibility to be informed of any Addenda that have been issued and to adjust its Proposal accordingly.

12.2 Revisions to the RFP

The City, at its option, may respond to any or all questions submitted in writing via the City's eBidding web site in the form of an addendum. No other responses to questions, oral or written, shall be of any force or effect with respect to this solicitation.

Any changes to the Contract Documents through addendum are made effective as though originally issued with the Proposal. The Design-Builders shall acknowledge the receipt of Addenda at the time of Proposal submission.

13 EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK

13.1 Contract Documents may be obtained by visiting the City's website: <http://www.sandiego.gov/cip/> Plans and Specifications for this contract are also available for review in the office of Public Works Contracts.

13.2 The Design-Builders shall carefully examine the Project Site, the Plans and Specifications, and other materials as described in or referenced by this RFP. The submission of a Proposal shall be conclusive evidence that the Design-Builder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of work, the quantities of materials to be furnished, local conditions, and as to the requirements of the Contract Documents.

14 CHANGES TO THE SCOPE OF WORK: Once a proposal has been accepted by the City and the award has been made, the Design-Builder shall immediately notify the City in writing of any proposed or anticipated change in the scope, contract amount, or contract time; and shall obtain the City's written consent to the change(s) prior to affecting them. In no event shall the City's consent be construed to relieve the Design-Builder from its duty to render all work and services in accordance with applicable laws and accepted industry standards

15 DESIGN SUBMITTALS: The City's review of the Design-Builder's Design Submittals shall not relieve the Design-Builder from its responsibilities under the Contract, or be deemed to be an acceptance or waiver by City of any deviation from, or of the Design-Builder's failure to comply with, any provision or requirement of the Contract Documents, unless such deviation or failure has been identified as such in writing in the document submitted for acceptance by the Design-Builder and accepted by City. Where approval or acceptance by City is required, it is understood to be general approval only, and does not relieve the Design-Builder of responsibility for complying with all applicable laws and good professional practices as the Design-Builder shall be the Engineer of Record.

16 BONDS AND INSURANCE: Prior to the award of the Contract (or Task Order), the Design-Builders shall submit evidence of separate bonds and insurance as specified in Sections 2-4, "CONTRACT BONDS," 7-3, "LIABILITY INSURANCE," and 7-4, "WORKERS' COMPENSATION INSURANCE" of the City's standard specifications for public works constructions unless specified otherwise in the Contract Documents.

17 SUBMITTAL REQUIREMENTS: PROPOSALS MUST BE RECEIVED NO LATER THAN THE DUE DATE AND TIME. Proposals may be withdrawn by the Design-Builder only up to the proposal due date and time.

IMPORTANT NOTE: Submission of the electronic proposals into the system may not be instantaneous. Due to the speed and capabilities of the user's internet service provider (ISP), bandwidth, computer hardware and other variables, it may take time for the bidder's submission to upload and be received by the City's eBidding system. It is the bidder's sole responsibility to ensure that their bids / proposals are received on time by the City's eBidding system. The City of San Diego is not responsible for bids / proposals that do not arrive by the required date and time.

17.1 TECHNICAL PROPOSAL REQUIREMENTS: Technical Proposals submitted in response to this RFP shall be in the following order and shall include:

- Legal name of company.
- Legal form of entity (partnership, corporation, joint venture, or other). If joint venture, identify the members of the joint venture, and provide all information required under this section for each member.
- Year of establishment of entity.
- If company is subsidiary of a parent company, identify the parent company.
- Address of main office.
- Address of San Diego satellite office if applicable.
- Contact information for firm, including name, title, email address and telephone number.
- Number of employees in San Diego County.
- Applicable License(s):
- City of San Diego Business License Number, including expiration date.
- State Contractor's License Number including expiration date, and all classifications. Professional Engineering/Architect License Number, including expiration date.
- Failure to provide all required information may result in the Proposal being considered non-responsive and ineligible for further consideration.

17.1.1 The Technical Proposal shall be concise, well organized, and demonstrate the Design-Builder's qualifications and experience applicable to the Project. The Technical Proposal shall be limited to 50 one-sided pages (8^{1/2}" x 11"), exclusive of resumes, graphics, forms, pictures, photographs, dividers, front and back cover, etc., that address the Technical Proposal contents; and of Equal Opportunity Contracting documentation. Font Type shall be Times New Roman in a minimum 12 Point font size, with a minimum 1" margin for text pages. A cover letter may be submitted but shall not contain any information that is a required element of the Technical Proposal. Any Technical Proposal that does not comply with these formatting standards may not be considered.

17.1.2 The Technical Proposals submitted in response to this RFP shall be in accordance with the requirements listed in ATTACHMENT G. The contents of the Technical Proposal shall be organized consistent with the format in Attachment G.

17.1.3 Design elements which deviate from the Scope of Work, City's design guidelines, or material substitutions which differ from the Approved Material List shall be highlighted in accordance with Attachment G.

17.1.4 Failure to comply with this section may render the Design-Builder's submittal non-responsive and ineligible for further consideration.

17.2 PRICE PROPOSAL REQUIREMENTS

17.2.1 A clearly marked, signed PDF of the Price Proposal is to be submitted in a separate PDF. This **is not** to be included with the Technical proposal. Refer to Attachment H of this RFP for any Price Proposal forms required to be used.

17.2.2 The Price Proposal shall be signed by an individual or individuals authorized to execute legal documents on behalf of the Design-Builder.

17.2.3 The lowest proposed price is not the determining factor for award of this contract. See Attachment G for the criteria by which the proposals will be evaluated.

17.2.4 In the event of any discrepancies, written numbers will govern over numerical. Also, the sum of all lump sum line items, unit price line items, allowance line items and any other priced items will govern over the "Total Design-Build Proposal" line item.

17.2.5 The required EOCP information such as Subcontractor and Supplier listings shall be submitted as part of the Price Proposal.

18 SELECTION CRITERIA AND SCORING

18.1 An evaluation Panel comprised of representatives from the City will be established for this Project. The Panel may also include other interested parties such as additional participating agencies, representative from the community and other appropriate agencies such as the State Water Resource Control Board.

18.2 Proposals will be ranked according to the selection criteria set forth in Attachment G.

18.3 The Panel will review all proposals received. Interviews or presentations will be conducted as needed in accordance with Attachment G.

18.4 Based upon this technical review, the Panel will rank the Design-Builders' proposals in accordance with the selection criteria set forth in Attachment G of this RFP.

18.5 Once the Technical Proposals have been ranked by the Panel, the Design-Builders' price proposals will be made available to the panel and forwarded to EOCP for review and scoring of subcontractor participation. The EOCP score will then be added to the Design-Builders' cumulative scores.

19 AWARD

- 19.1** After the Technical Proposals have been evaluated, scored and ranked; the Price proposals will be factored in according to the criteria set forth in Attachment G. A Design-Builder selection will then be made.
- 19.2** The City will announce in writing to all the RFP participants the selected Design-Builder. The announcement will show the results of the evaluation. This notification to the Design-Builders shall constitute the public announcement of the selected Design-Builder. In the event that the selected Design-Builder is subsequently deemed non-responsive or non-responsible, a new public announcement will be provided to all proposers with the name of the newly designated selected Design-Builder.
- 19.3** To obtain the price Proposal results, view the results on the City's web site, or request the results by U.S. mail and provide a self-addressed, stamped envelope. If requesting by mail, be sure to reference the Proposal name and number. The Proposal tabulations will be mailed to you upon their completion. The results will not be given over the telephone.

20 ADDITIONAL POLICIES, PROCEDURES, TERMS AND CONDITIONS

- 20.1** The Program's Selection Process is based on the policies, procedures and guidelines set forth in the City Municipal Code Chapter 2, Article 2, Division 33.
- 20.2** **Protests.** A Design-Builder may protest the award of the Contract to another Design-Builder in accordance with San Diego Municipal Code.
- 20.3** **Changes to Key Personnel and Substitution of Subcontractors.** The Design-Builder shall not change or substitute any individual that is identified in its proposal as "key personnel" without the written consent of the City. The Design-Builder shall not change or substitute any material, supplier, or subcontractor identified in its Proposal without written consent of the City. The City's consent will not be unreasonably withheld.
- 20.4** **Project Team.** The Design-Builder shall maintain all representations, team members, and proposed tasks and work elements as valid, except for the schedule which may be adjusted as mutually agreed upon by the City and the Design-Builder.
- 20.5** **Submittal of "Or Equal" Items.** See 4-1.6, "Trade Names or Equals" in the SSP and as modified by the Scope of Work ATTACHMENT A.
- 20.6** **Subcontract Limitations.** The Design-Builder's attention is directed to Standard Specification for Public Works Construction, Section 2-3, "SUBCONTRACTS" which requires the Design-Builder to perform not less than the specified amount under this RFP. Failure to comply shall render the Proposal non-responsive.

- 20.7 San Diego Business Tax Certificate.** All Contractors, including Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, first floor, before the Contract can be executed.
- 20.8 City Standard Provisions.** The work resulting from this RFP is subject to the following standard provisions. See The WHITEBOOK for details.
- 20.8.1** The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
 - 20.8.2** The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
 - 20.8.3** The City of San Diego Municipal Code §22.3004 for Pledge of Compliance.
 - 20.8.4** The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
 - 20.8.5** Sections 1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.
 - 20.8.6** The City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).
 - 20.8.7** The City's Information Security Policy (ISP) as defined in the City's Administrative Regulation 90.63.
- 20.9 Prevailing Wage Rates Apply:** Refer to Attachment D.

20.10 Reference Standards: Except as otherwise noted or specified, the Work shall be completed in accordance with the following standards:

Title	Edition	Document Number
Standard Specifications for Public Works Construction ("The GREENBOOK") http://www.greenbookspecs.org/	2015	PWPI070116-01
City of San Diego Standard Specifications for Public Works Construction ("The WHITEBOOK")* https://www.sandiego.gov/publicworks/edocref/greenbook	2015	PWPI070116-02
City of San Diego Standard Drawings* https://www.sandiego.gov/publicworks/edocref/standarddraw	2016	PWPI070116-03
Citywide Computer Aided Design and Drafting (CADD) Standards https://www.sandiego.gov/publicworks/edocref/drawings	2016	PWPI092816-04
California Department of Transportation (CALTRANS) Standard Specifications – http://www.dot.ca.gov/des/oe/construction-contract-standards.html	2015	PWPI092816-05
CALTRANS Standard Plans http://www.dot.ca.gov/des/oe/construction-contract-standards.html	2015	PWPI092816-06
California Manual on Uniform Traffic Control Devices Revision 1 (CA MUTCD Rev 1) - http://www.dot.ca.gov/trafficops/camutcd/	2014	PWPI092816-07
<p>NOTE: *Available online under Engineering Documents and References at: http://www.sandiego.gov/publicworks/edocref/index.shtml</p>		

ATTACHMENTS

ATTACHMENT A
PROJECT DESCRIPTION, SCOPE OF WORK, TECHNICAL SPECIFICATIONS, AND
BRIDGING DOCUMENTS

1. Project Description:

The work includes construction of water and sewer mains. The water main is 27,192 linear feet (LF) (5.15 miles) of which, 25,620 LF (4.85miles) of existing 4-inch, 6-inch, 8-inch and 12-inch AC water mains will be replaced with 8-inch or 12-inch water mains; approximately 50 LF (0.01 miles) of new 8-inch water main will be installed; and 1,522 LF (0.29 miles) of new parallel 8-inch water main will be installed. This project will construct a total of approximately 4,170 LF (0.79 miles) of sewer main. Of that linear footage, approximately 2,246 LF (0.42 miles) of existing 6-inch vitrified clay pipe (VCP) and approximately 560 LF (0.11 miles) of existing 8-inch VCP will be replaced with 8-inch sewer mains. Approximately 1,364 (0.26 miles) of new 8-inch sewer mains will be installed to receive sewer flow from homes which will be re-plumbed toward Logan Avenue rather than from their back yards. The project will abandon approximately 463 LF of water main and 551 LF of sewer main.

2. Scope of Work:

- 2.1.** The Design-Builder shall be responsible for performing and completing, and for causing all Sub-consultants/Subcontractors to perform and complete the design and construction of the Project as set forth in the Contract Documents.
- 2.2.** The Design-Builder shall provide all Work and Services required by the Contract Documents, including those described as “if required,” “if directed,” “potential,” “optional,” “may,” or similar adjectives and phrases. This work falls under the appropriate proposal items.
- 2.3.** The Design-Builder covenants that the Services shall meet the performance expectations of the City as described in this Scope. The Design-Builder shall be responsible for achieving Completion of the Project as set forth in the Project Schedule, as the same may be extended from time to time pursuant to the provisions of the Contract.
- 2.4.** The submission of a Proposal shall be conclusive evidence that the Design-Builder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of Work, the quantities of materials to be furnished, the local conditions under which the Work is to be performed, and as to the requirements of the Proposal Documents, Plans, and Specifications.
- 2.5.** As the Engineer of Work, the Design-Builder shall refer to the City’s preliminary design information for the purpose of preparing a set of Plans and Specifications for the construction.
- 2.6.** The Scope of Work and Services shall also include but is not limited to the following:
 - 2.6.1.** Conducting investigations, as-built research, and additional design survey services including physical and aerial surveys if needed for the completion of design work;

- 2.6.2.** Preparing & completing 60%, 100%, and Final design drawings. The Design-Builder is solely responsible for the preparation and completion of design plans for construction;
- 2.6.3.** Obtaining plan check approvals; and providing engineering services during construction, startup, and testing;
- 2.6.4.** Construction of water mains and appurtenances including all high-lining, cut and plug and cut ins;
- 2.6.5.** Monitoring for potential of any hazardous materials and coordination with local resource agencies;
- 2.6.6.** Value engineering;
- 2.6.7.** Additional geotechnical investigation in areas of excavation of undisturbed soil, and where necessary.
- 2.6.8.** Performance and implementation of QA/QC,
- 2.6.9.** Landscaping and re-vegetation plan, if required;
- 2.6.10.** Traffic control, paving, AC overlay or Slurry Seal for all streets, storm water permitting and compliance;
- 2.6.11.** Coordinating with the City Project and Construction Managers and other utility owners/contractors; Coordinate utility relocations with utility owners; and,
- 2.6.12.** Scheduling, community outreach and public relations, and preparation of as-built drawings and mylars.
- 2.7.** The Design-Builder shall use CADD in compliance with the City of San Diego 2016 CADD Standards.
- 2.8.** The Design-Builder shall use the Primavera Project Management and Scheduling Software or equal. The Design-Builder shall submit and maintain a task-oriented computerized schedule for completing the Work over the life of the Project in accordance with Section 6-1, "CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK."
- 2.9.** As required by California Government Code section 830.6, prior to construction, the design (including changes) for the Project and/or any portion thereof shall be approved by the Engineer.
- 2.10.** Permit to work on private property acquisition.
- 2.11.** Lateral replumb agreements acquisition.
- 2.12.** Replumb investigations.

3. City Services:

- 3.1.** The City will provide only the services listed in this section. All other services necessary for complete design and construction of the Project shall be provided by Design-Builder.
 - 3.1.1.** Project Management and Administration. The City will respond to Design-Builder's written questions regarding Project definition and scope within 15 Working Days of receipt. See The WHITEBOOK, General Provisions (C), Section 2-6.6 "Procedures for Review of Design Materials".
 - 3.1.2.** Submittal Review and Approval. The City will review each submittal within 20 Working Days of receipt. See The WHITEBOOK, General Provisions (A), section 2-5.3.1 "General".
 - 3.1.3.** Construction inspection, administration, and material testing
 - 3.1.4.** Plan checking fees.
 - 3.1.5.** One-time orientation on the use of the Public Works Department's GIS and other databases that the City makes available to the Design- Builder.
 - 3.1.6.** Easement Acquisition, including right-of-way drawing.
 - 3.1.7.** Permit fees (not including Caltrans).

4. City Provided Information:

- 4.1.** The City will provide the following information to Design-Builder. The City does not guarantee the accuracy of this information. The Design-Builder shall conduct further research as necessary to verify the information.
 - 4.1.1.** Access to existing topographic maps, San Diego Geographical Information Source (SanGIS) Maps, and electronic files in the possession of the Right-of-Way Design Division. The Design-Builder's expenses for copying will be reimbursed by City unless the copying was performed using City equipment and supplies.
 - 4.1.2.** One time access to the CIP Tracking/SPLASH Database to identify existing and proposed Projects in surrounding areas and limited access, as determined by City, to City's on-line records on, maintenance sites, and recent sewer spills. The Design-Builder shall make arrangements with the Engineer or designee at least 1 week in advance to reserve the computer work station.
 - 4.1.3.** Sample set of construction plans for a typical Project. The Design-Builder shall use the sample as minimum guidelines for the format and contents of Plans.
 - 4.1.4.** City's QA/QC checklists.
 - 4.1.5.** Access to Public Works Department's on-line as-built drawings and available design survey information where available.

4.1.6. Traffic Control development process.

4.1.7. All Survey and CADD files in possession of the Right-of-Way Design Division for this project.

5. Review of the Design-Builder's Design Submittals:

5.1. The Design-Builder shall allocate 20 Working Days for City to review and comment on each submittal and 2 weeks for the Design-Builder to respond and for final Working Days resolution of comments. To log and communicate the review comments, actions, and resolutions efficiently, the City intends to utilize a MS Access database or MS Excel spreadsheet to manage the design submittal comments for 60% and 100% (Final Designs). The Design-Builder shall review and respond to City's comments in the format provided by City.

6. Community Input:

6.1. Community input is important. The Design-Builder shall identify major community issues (e.g. access to the public facilities and businesses located within or near the Project area) and shall obtain and address community input. The Design-Builder shall attend at least 2 community presentation meetings of 2-4 hours each (usually scheduled during the early 60% design and prior to start of construction) and during construction as required by the City. The Design-Builder shall also prepare and receive City approval of hand-outs and displays for the community presentations. The Design-Builder shall prepare and implement a community relations plan as discussed later in Community Relations and Public Outreach Program section of this Scope. The Design-Builder shall also receive the Engineer's approval for night and after-hours work.

7. Photo Log and Videotape:

7.1. The Design-Builder shall comprehensively photograph and videotape the Project Site before, during, and after construction of the Project. Prior to Acceptance, the Design-Builder shall prepare and submit the following items to City:

7.1.1. a still-photo log including the photographs taken;

7.1.2. one copy of each of the still-log photos bound in a three-ring binder; and

7.1.3. two copies of the Project CD in a form acceptable to City.

7.2. The Design-Builder shall request City's prior written approval for the use of digital photography and submit the relevant specifications for digital submittal with the request.

8. Coordination:

8.1. The Design-Builder shall coordinate design and construction requirements with governmental entities and agencies, private utilities, and all other parties either involved in infrastructure improvements or otherwise affected by the design and construction requirements.

9. Existing Information:

- 9.1.** The City and the Design-Builder recognize that previous studies, designs and reports such as information provided in the Bridging Documents have developed a preliminary definition of the Project. However, these previous efforts have not resulted in a comprehensive and final Project definition. The Design-Builder shall verify all information provided to it by the City pertaining to the Bridging Documents, conceptual plans, Project Site's description, rights-of-way, easements, surveys, existing utilities, soils, hazardous wastes and geotechnical reports, etc., and shall verify the data and recommendations prior to including them into the Project design. The Design Builder shall perform the engineering tasks necessary to further refine and optimize the Project, utilizing as much previous work as possible, ultimately leading to authorization-to-proceed for Construction with Final Design.

10. Requests for Clarifications or Information:

- 10.1.** The Design-Builder shall submit all RFI's to the Engineer in writing. Oral communications shall not be relied upon unless confirmed in writing. RFI's shall be in a format acceptable to the Engineer, and, at a minimum, shall contain: the Project name and WBS number; the request date; the desired response date; a unique numeric request identifier; a title; a reference to the pertinent part of the Bridging Documents, the Design-Build Special Provisions, or other specific part of the Contract Documents; CPM activity number affected; the written request; the Design-Builder's proposed solution, if appropriate; attachments, if any; and the name, telephone number, e-mail address, and title of the request initiator.

11. Substitutions:

- 11.1.** Prior to receipt of the final design, the City will consider written substitution requests from the Design-Builder for substitution of products or manufacturers, and construction methods (if specified). After the City receives the final design, substitution requests will be considered only in the case of unavailability of a product or other conditions beyond control of the Design-Builder.
- 11.2.** The Design-Builder shall have the full burden of demonstrating that the proposed substitution is equal to the specified manufacturer, product, or construction method. By the act of submitting a substitution request, the Design-Builder warrants that:
- 11.2.1.** The Design-Builder has investigated the proposed substitution and has determined that it is equal to or superior in all respects to the specified manufacturer, product, or construction method.
- 11.2.2.** The Design-Builder will provide the same or better guarantees or warranties for the proposed substitution as for the specified manufacturer, product, or construction method.

alternative construction approaches to ensure economical designs which optimize constructability yet meet all requirements of this Contract, including all applicable laws and applicable architectural concepts, and conceptual designs.

12.2.2. The Design-Builder shall incorporate the requirements of permitting agencies as may become apparent in the course of Project design. The Design-Builder shall apply for and secure all permits and provide all necessary reports, studies, and support required to obtain the permits. Permit and utility fees, if any, will be paid by the City. In addition, the Design-Builder shall research and comply with all Air Pollution Control District and noise abatement requirements, along with any hazardous materials management requirements of NFPA, Cal-OSHA and the City Fire Department. The Design-Builder shall develop an air pollution control plan, a noise abatement plan, (WPCP) Water Pollution Control Plan and a hazardous materials management plan, if required. If required, the Design-Builder shall incorporate appropriate facilities into the design.

12.2.3. With prior authorization from the Engineer, the Design-Builder shall provide additional geotechnical investigations and potholing to the extent the Design-Builder determines that they are necessary for Final Design.

13. Surveying:

13.1. The Design-Builder understands and agrees that any survey information provided by the City is preliminary in nature and may not have sufficient accuracy or scope to support Final Design.

13.2. The Design-Builder shall perform all additional physical and aerial surveys as needed to prepare the construction plans and as-built drawings in accordance with the City standards.

13.3. Construction staking will be performed by the City with prior arrangement. The Design-Builder shall coordinate with the Engineer.

14. As-built information:

14.1. The Design-Builder shall obtain and review record drawings and as-built information from available public records, maintenance records, and Average Daily Traffic (ADT) counts, etc. if needed in addition to the information in the Bridging Documents.

15. Environmental and Permit Support:

15.1. This Scope is based on studies and reviews performed by City's Development Services Department [DSD] which are included in the Bridging Documents. The Design-Builder shall identify all permits required for the Project as well as all requirements for those permits. All permits shall be acquired by the Design-Builder and the costs thereof paid by City. At the 60%, 100% and Final Design completion levels, the Design-Builder shall

submit to City a written list of permits required for the Project. The Design-Builder shall identify all permitting agencies and authorities having jurisdiction. The Design-Builder shall prepare permit applications and submit the applications to the Engineer for review. The Design-Builder shall provide technical services as required by the permitting agencies during permit acquisition. The Design-Builder shall incorporate mitigation provisions and DSD review requirements, including the certified CEQA document into the Construction Documents. The Design-Builder shall identify and estimate quantities of BMP's to comply with WPCP requirements.

16. Owner/Governmental Approvals:

16.1. The Design-Builder shall obtain all City and other jurisdictional agency approvals as required to implement the design and construction of the Project. The City received an environmental document for the Project. During the Final Design process, if the Design-Builder modifies the Project such that a revision of the environmental document is required, the Design-Builder shall be responsible for all work required for implementing a revision, including preparation of revised documentation and coordination with City staff. The Work shall not proceed on the Project until the environmental requirements are met to the satisfaction of the City. There shall be no additional time allowed in the contract for processing and approval of revised permit documents. The cost associated with implementing both the design and construction changes as a result of the Design-Builder modifications shall be the responsibility of the Design-Builder and will not be compensated by the City.

17. Geotechnical Investigation:

17.1. The Design-Builder shall review any available geotechnical reports and provide the necessary geotechnical investigations and testing required to design and to construct the Project in accordance with the Contract requirements.

18. Corrosion Survey Report:

18.1. If applicable, the Design-Builder shall investigate the Project Site and provide a current corrosion survey report for the water portion of the Project according to City standards and guidelines (refer to the water CIP Guidelines, Book 1, Chapter 9, Corrosion Control).

19. Potholing:

19.1. The Design-Builder shall have full responsibility for assessing, reviewing and verifying existing utility information and data. The Design-Builder shall excavate sufficient potholes to verify locations and elevations at utility crossings and existing piping to be removed or replaced in the Project. The Design-Builder shall immediately notify the City of any damage caused to the pipe during potholing activities.

19.2. The Design-Builder shall provide all services related to the excavation and backfilling of potholes. Pothole excavations shall be in compliance with CAL-OSHA and City safety requirements, and any excavations left open shall be covered with steel plates.

- 19.3. The Design-Builder shall restore and clean-up all work sites.
- 19.4. All utility excavations shall be tied to the horizontal and vertical control information provided by survey for this Project. The Design-Builder shall provide the City with a summary which shall include:
 - 19.4.1. Utility.
 - 19.4.2. Conduit quantity, type, and size.
 - 19.4.3. Depth to top of conduit.
 - 19.4.4. Horizontal coordinates (NAD 83).
 - 19.4.5. Surface elevation (M.S.L).
 - 19.4.6. Top elevation of conduit.
- 19.5. At the completion of examining each pothole, the Design-Builder shall:
 - 19.5.1. Replace the pipe bedding which was removed. Tamp and compact to provide suitable support for the pipe.
 - 19.5.2. Backfill and cover the pipe with native soil.
 - 19.5.3. For those pothole excavations located in the roadway, trench resurfacing shall comply with SDG-107 or SDG-108, when applicable.
- 19.6. The Design-Builder shall provide construction staging, noise and dust control, and traffic control as required during excavation for potholing to minimize impacts on local neighborhoods.
- 19.7. The Design-Builder shall restore to their in-kind condition, as determined by City, all streets, curbs, gutters, sidewalks, private properties and other improvements damaged as a result of the Design-Builder's activities.
- 19.8. The Design-Builder shall submit potholing information to the Engineer for review.
- 19.9. The Design-Builder shall not perform any additional potholing unless authorized in writing by the City.

20. Review of Contract Documents and Field Conditions:

- 20.1. The Design-Builder shall conduct field investigations, including potholing of underground facilities, take field measurements, and verify field conditions. The Design-Builder shall carefully compare such field conditions and other information known to the Design-Builder with the Contract Documents before commencing Work and/or Services. The Design-Builder is solely responsible for investigation and discovery of all field conditions notwithstanding any information provided by City in the Contract Documents or otherwise. City has made an effort to eliminate errors, omissions, and inconsistencies in the Contract Documents. The Design-Builder, however, shall bring to City's attention for clarification any errors, omissions, or inconsistencies prior to submission of the Design-Builder's Proposal. Otherwise, the

Design-Builder shall take responsibility for any costs or delays associated with such error, omission, or inconsistency.

21. Local Conditions:

21.1. The Design-Builder shall take steps reasonably necessary to ascertain the nature and location of the Work, and investigate and satisfy itself as to the general and local conditions that are applicable to the Work, including but not limited to:

21.1.1. Conditions bearing on transportation, disposal, handling, and storage of materials;

21.1.2. The availability of labor, materials, water, power, and roads;

21.1.3. Weather conditions;

21.1.4. Physical conditions at the Project Site;

21.1.5. The surface conditions of the ground; and

21.1.6. The character of equipment and facilities needed prior to and during the performance of the Work.

22. Access to the Work:

22.1. The Design-Builder shall provide the City and utility owners with access to the Project Site and provide coordination and time for utility work to be accomplished at all times.

23. Supervision:

23.1. The Design-Builder shall supervise and direct the Work in accordance with accepted standards of professional skill and attention. The Design-Builder shall be solely responsible for and have control over design and construction means, methods, techniques, sequences, and procedures. The Design-Builder shall not be relieved of obligations to perform the Work in accordance with the Contract Documents by tests, inspections, acceptances, or approvals required or performed by persons other than The Design-Builder. The Design-Builder shall employ a competent superintendent and a necessary assistant who shall be present at the Project Site at all times that Work is being performed. The superintendent shall represent the Design-Builder, and communications given to the superintendent shall be as binding as if given to the Design-Builder.

24. Authorization to Proceed:

24.1. Following each design review, the Design-Builder shall meet with the Engineer to:

24.1.1. Discuss the comments and responses, and to resolve all open issues and disagreements;

24.1.2. Confirm the next level of design development; and

24.1.3. Obtain written authorization to proceed with the next design level; and

24.1.4. Obtain written authorization to proceed with construction.

25. Design Calculations:

25.1. The Design-Builder shall include design calculations, catalog cuts, computations, telephone and facsimile records, and other similar documents supporting all elements of the Design-Builder's design with the Design-Builder's final signed and stamped calculations. The Design-Builder shall provide catalog cuts and manufacturer's data included with the final Project calculations for each approved material listed in the specifications or identified on the drawings

26. Plan Checks - at major completion levels, Design:

26.1. The Design-Builder shall submit written estimates of plan checks required to complete the Project. In the written estimates, the Design-Builder shall:

26.1.1. Identify all authorities having jurisdiction, including but not limited to the City Planning Division, Development Services Department, the City Traffic Section of Construction Management and Field Services, and other utilities. City will prepare plan check applications and submit the applications to the authorities having jurisdiction. Payment for plan check applications shall be made by City.

26.1.2. Submit hard and electronic copies of written design submittal comments from City and other utilities or agencies, annotated to indicate the Design-Builder's responses, final disposition of comments, and incorporate into the Final Design documents.

27. Shop Drawings, Material Submittals and Samples.

27.1. The Design-Builder, as the Engineer of Record, shall review and approve Shop Drawings, Material Submittals and Samples prior to procurement.

27.2. The Design-Builder shall determine and verify all of the following prior to procurement:

27.2.1. Field measurements, quantities, dimensions, specified performance criteria, installation requirements, materials, catalog numbers, and similar information with respect thereto.

- 27.2.2.** Products with respect to intended use, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work.
- 27.2.3.** Information relative to the Design-Builder's sole responsibilities in respect of means, methods, techniques, sequences, and procedures of construction, and safety precautions and programs incident thereto.
- 27.3.** Prior to approving Shop Drawings, Material Submittals or Samples, the Design-Builder shall review and coordinate each Shop Drawing, Material Submittals or Sample with other Shop Drawings, Material Submittals and Samples, and with the requirements of the Work and Contract Documents.
- 27.4.** The Design-Builder shall carefully review Shop Drawings, Material Submittals and Samples and shall date, sign, and certify each submittal as being correct and in strict conformance with the Contract Documents. In the case of Shop Drawings, each sheet shall be so dated, signed, and certified. The Engineer will require 3 copies of approved submittals prior to procurement for QA/QC purposes and will not accept any submittals which have not been certified by the Design-Builder to be in compliance with the Contract requirements, and will return any non-certified submittals to the Design-Builder. Any delays caused by the Design-Builder's failure to so certify shall be the total responsibility of the Design-Builder.
- 27.5.** With each submittal, the Design-Builder shall give the Engineer separate specific written notice of any variations between the Shop Drawing, Material Submittals or Sample submitted and the requirements of the Contract Documents. Additionally, the Design-Builder shall include a specific notation for City's acceptance of each such variation on each Shop Drawing, Material Submittals and Sample submitted.
- 27.6.** City's acceptance of Shop Drawings, Material Submittals and Samples shall be for the sole purpose of determining whether the Shop Drawings, Material Submittals and Samples will, after installation or incorporation into the Work, conform to the Contract Documents and be compatible with the design concept of the completed Project as a functioning whole.
- 27.6.1.** City's acceptance shall not extend to means, methods, techniques, sequences, or procedures of construction, except where a particular means, method, technique, sequence, or procedure of construction is specifically and expressly called for by the Contract Documents.
- 27.6.2.** City's review and acceptance of a separate item as such shall not indicate approval of the assembly in which the item functions.

- 27.6.3.** City's review of Shop Drawings shall not relieve Design-Builder of the entire responsibility for the correctness of details and dimensions. The Design-Builder shall assume all responsibility and risk for any misfits and/or malfunctions due to any errors in the Design-Builder's submittals. Design-Builder shall be responsible for the dimensions and the design of adequate connections and details.
- 27.7.** City's acceptance of Shop Drawings, Material Submittals or Samples shall not relieve the Design-Builder from responsibility for variations from the requirements of the Contract Documents, unless:
- 27.7.1.** The Design-Builder in writing called attention to each such variation at the time of submission of the Shop Drawing, Material Submittals or Sample; and
- 27.7.2.** City has specifically accepted in writing, either on the Shop Drawing or accompanying the Sample or Material Submittal each such variation.
- 27.8.** The Design-Builder shall be solely responsible for any costs arising from the Design-Builder's failure to submit and/or receive City's acceptance of a Shop Drawing, Material Submittal or Sample as required by the Contract Documents or the City-accepted schedule of Shop Drawings and Sample submissions.
- 27.9.** Shop Drawing Submittal Procedures:
- 27.9.1.** The Design-Builder shall submit 3 copies of each approved Shop Drawing to the Engineer for QA/QC purposes.
- 27.9.2.** The Design-Builder shall use a separate transmittal form for each specific item or class of material or equipment for which a submittal is required. The Design-Builder may use a single transmittal form for multiple items only when the items taken together constitute a manufacturer's "package" or are so functionally related that expediency indicates review of the group or package as a whole. The Design-Builder shall collate a multiple-page submittal into sets, and each set shall be stapled or bound, as appropriate, prior to transmittal to the Engineer.
- 27.9.3.** The Design-Builder shall use a Project-standard transmittal form accepted by the Engineer. The transmittal form shall identify the Design-Builder and include the date of the submittal, the information prescribed by the form, and a unique sequential number in a format approved by the Engineer. If applicable, the Design-Builder shall process transmittal forms to record actions regarding sample installations.
- 27.9.4.** For each submittal and using a label and/or a rubber stamp, the Design-Builder shall include the following information in the same or a substantially similar form:

Submittal No.
Contract No.
Project Name:
Name of Design Builder:
Reviewed and Approved for Conformance with the Contract Documents: Printed Name: _____ By: _____ <p style="text-align: center;">(Signature)</p>
Reference Drawing Sheet No's:
Reference Spec Section No's:

27.9.5. The Engineer will return at least one copy of each submittal with City's written comments to the Design-Builder within 20 Working Days following receipt of the submittal by the Engineer. If the Design-Builder fails to provide a complete and acceptable first re-submittal, as determined by the Engineer, City may deduct from the Contract Price the costs of City review beyond the first re-submittal.

27.9.6. Corrections indicated on submittals shall be considered as changes necessary to meet the requirements of the Contract Documents and shall not be taken as the basis for changes to the Contract requirements. City shall not be liable for any costs associated with fabrication or manufacture of an item that occurs prior to City's acceptance of the associated shop drawing submittal.

27.9.7. The Design-Builder shall maintain an accurate submittal log. The log shall show the current status of submittals and the Design-Builder shall make the submittal log available for City's review upon request.

27.9.8. Submittal Format for Shop Drawings:

1. For Shop Drawings presented on sheets larger than 11 by 17 inches, the Design-Builder shall include on each drawing the drawing title, number, date, and revision numbers and dates.
2. For Shop Drawings presented on sheets 11 by 17 inches or less, the Design-Builder shall conform to the format and quantity requirements for product data, and present the Shop Drawings as a part of the bound volume for the submittals required by this Section.
3. Except for diagrams and schematic drawings, Design- Builder shall prepare dimensioned drawings to scale. The Design-Builder shall identify materials and products for work shown.

4. The Design-Builder's Shop Drawings shall be not less than 8½ by 11 inches nor more than 30 by 42 inches.
5. The Design-Builder shall submit detailed drawings and descriptions of proposed deviations from details or component arrangement indicated on the Shop Drawings.
6. The Design-Builder shall provide finished drawings for City review indicating proposed installation of Work, and materials and equipment being furnished.
7. City will not accept Shop Drawings that are either:
 - i) Copies of plans; or
 - ii) Materials or equipment identified solely by catalog numbers.
8. To enable City's acceptance, the Design-Builder shall ensure that the data shown on Shop Drawings is complete with respect to dimensions, design criteria, material of construction, and other detail. Incomplete submittals will be rejected.

27.9.9. Submittal Format for Product Data:

1. The Design-Builder shall present product data submittals for each specification section as a complete, bound volume, including a table of contents that lists page and catalog item numbers for product data.
2. The Design-Builder shall clearly indicate each product that is being proposed for use by inserting a stamped arrow, cloud, or other prominent notation that identifies the pertinent specification section and paragraph numbers. City will reject product data submittals that are not clearly marked.
3. If product data satisfying submittal requirements does not exist, the Design-Builder shall create and submit to City the required product data, including a notation that the product data was created specifically for the Project.
4. The Design-Builder shall furnish to City catalog data that describes in detail the products being furnished and enables the Engineer to determine that the products submitted conform to the requirements of the Contract Documents.
5. If more than one style, size, capacity, etc. of a product appears on a sheet, the Design-Builder shall clearly indicate exactly which product type is being submitted for approval. City will reject any submittal that fails to conform with this requirement
6. The Design-Builder shall ensure that the catalog data identifies the manufacturer of the product.

- 27.9.10.** Submittal Format for Samples: The Design-Builder shall label or tag each sample, identifying the specification Section number, manufacturer's name and address, brand name, product identification number, and intended use in the Work.
- 27.9.11.** If The Design-Builder receives the prior written approval of the Engineer, the Design-Builder may submit Shop Drawings and Samples during the design process beginning at the 60 percent design level. The Design-Builder shall request such early submittal by submitting a RFI. The Design-Builder shall conform to all other requirements and procedures regarding Shop Drawings and Samples.

28. Design Development:

- 28.1.** The Design-Builder shall design the Project in compliance with all applicable laws, City and other local, state, and federal standards, and applicable industry standards and codes, including but not limited to those specifically set forth in the Contract Documents, the Municipal Sewer Approved Materials List, City noise and air pollution emissions regulations, applicable hazardous material handling and disposal regulations, the City's policies, and all other Reference Specifications approved by City at the time of Award.
- 28.2.** The Design-Builder shall prepare and submit design packages for review and acceptance by City in accordance with City's guidelines and the Project Schedule. The Design-Builder's use of City's guidelines shall not reduce, change, mitigate, or absolve the Design-Builder's responsibility for the Project design in any way. The Design-Builder's acts of stamping and signing the drawings, specifications, calculations, or other final design documents shall mean that the Design-Builder understands, accepts, and approves all measures contained in or implied by City's guidelines.
- 28.3.** The Design-Builder shall use the Bridging Documents as the starting point for Project design. The Final Design shall be based on the concepts in these documents. The Design-Builder shall review the Bridging Documents and verify the data and recommendations (i.e., proposed alignments and conceptual plans) prior to including them in the Project design. The Design-Builder shall perform the engineering tasks necessary to refine and optimize the Project, including but not limited to reevaluation and necessary modification of questionable/pending proposed alignments contained in the Bridging Documents.
- 28.4.** The Design-Builder shall submit the Final Design documents to the Engineer. In addition to the deliverables specified in subsection 29.7 the Final Design documents shall also include but not be limited to:
 - 28.4.1.** One complete set of full sized (24-inch x 36-inch) original mylar final drawing plots, each stamped and wet signed by qualified responsible engineers registered in the state of California. Applicable portions of the drawing title blocks shall also be signed by the Design-Builder.

- 28.4.2.** Two complete electronic file sets of all final drawings on CD-Rewritable (RW) recordable disks in Bentley MicroStation Version V8 SE format.
- 28.4.3.** One, 8½-inch by 11-inch, final specifications, including all charts, graphs, tables, data sheets, and similar inserts required for a complete and approved copy suitable for Xerox reproduction.
- 28.4.4.** Two complete electronic file sets of the final specifications in MS Word processing software format.
- 28.4.5.** One complete set of engineering calculations and quantity take-offs, including hydraulic calculations, each wet stamped and signed by qualified responsible engineers registered in the state of California. All elements of the Final Design presented shall be supported by calculations. All computer programs used in development of Project calculations shall be Windows compatible. Catalog cuts and manufacturer's data shall be provided for each approved material listed in the specifications or identified on the drawings, and shall be included with the final Project calculations.
- 28.4.6.** A written list of required Shop Drawings (construction submittals) and Samples and an electronic file of the list on a recordable CD-RW in the latest version of MS Word processing software.
- 28.4.7.** Other reports and documents as may be required by City.
- 28.5.** Procedures and time allowances for City's review of the design submittal, response by the Design-Builder to City's comments, and obtaining City's authorization to proceed to the next level of design shall be as stated in this Scope and the Project Schedule.
- 28.6.** In coordination with Traffic Section of Construction Management and Field Services, the Design-Builder shall develop a traffic control plan and local access management plan that minimizes environmental and traffic impacts, including noise impacts, to residences, businesses, and institutions. The final traffic control plan must be approved by City's Traffic Section of Construction Management and Field Services. The Design-Builder shall maintain an appropriate level of access and site security at all Project facilities to avoid significant impacts to the public.
 - 28.6.1.** After the alignment of a Project is finalized, the Design-Builder shall meet with the Traffic Plan Check Supervisor to determine which sections of the roadway, if any, will require formal traffic control plans and which sections can be adequately addressed using shop drawings developed by the Design-Builder prior to construction.
 - 28.6.2.** The Design-Builder shall prepare a preliminary traffic control approach for City's review and approval prior to preparation of traffic control plans.
 - 28.6.3.** The Design-Builder shall complete and update a Traffic Control Plan Information Sheet available from the City.
 - 28.6.4.** The Design-Builder shall include Typical Cross Sections on traffic control plans identifying the construction work areas if required by Traffic Engineering.

- 28.6.5.** The Design-Builder shall address and include in the traffic control plans and specifications coordination of traffic control among adjacent Projects during construction.
- 28.6.6.** The Design-Builder shall obtain approval for traffic control plans.
- 28.7.** The Design-Builder shall provide designs for the relocation of public or private utilities which must be constructed or relocated as a result of the Project.
- 28.8.** The Design-Builder's design shall comply with the ADA and Title 24. The Design-Builder shall complete and submit an ADA Compliance Review Checklist available from the City.
- 28.9.** The Design-Builder shall prepare and incorporate into the specifications, a Water Pollution Control Plan (WPCP) to be implemented during construction. The WPCP shall be prepared according to the guidelines of the current edition of the City of San Diego Storm Water Standards Manual.
- 28.10.** The Design-Builder shall prepare a construction quantity takeoff at 60%, 100% and Final submittals.
- 28.11.** The Design-Builder shall revise plans and specifications to incorporate comments received from the City, City-wide plan check and from the permitting agencies.

29. Design Submittals:

- 29.1.** General: The Design-Builder shall ensure that all design submittals conform to the requirements described in this Section. City will reject any submittal that fails to meet the requirements described in this Scope and elsewhere in the Contract. City shall not grant a schedule adjustment for the Design-Builder's failure to meet these requirements. In each submittal the Design-Builder shall identify any variances from the Contract Documents. City may reject any design submittal for the Design-Builder's failure to identify variances, regardless of the timing of the discovery of the failure. The Design- Builder shall respond in writing to all City comments on each design submittal within 10 Working Days of the date of transmittal of the comments. The Design-Builder shall submit a completed QA/QC checklist at each design submittal.
- 29.2.** 60 percent design Submittal - The 60 percent design submittal shall include but not be limited to:
 - 29.2.1.** Designs for construction of new facilities and for refurbishment and demolition of existing facilities, if applicable.
 - 29.2.2.** Reviewed preliminary calculations and hydraulic calculations.
 - 29.2.3.** Completed and reviewed calculations, hydraulic calculations, calculations for horizontal and vertical control for pipeline alignment, and backfill and bedding design.
 - 29.2.4.** Location of construction staging areas (if applicable).

- 29.2.5.** A written list of permits required for the Project, identifying all permitting agencies and authorities having jurisdiction.
- 29.3.** Drawings that shall include at a minimum:
 - 29.3.1.** Updated plan and profile sheets for the sewer and water improvements, and construction details and notes.
 - 29.3.2.** Title sheet with general notes, vicinity map, key map, and legend.
 - 29.3.3.** Locations of existing public and private utilities within the Project area on plan and profile.
 - 29.3.4.** Preliminary site plan including construction staging areas (if applicable)
 - 29.3.5.** Drawings shall show all existing topographic and utility information and the horizontal alignment of proposed pipeline improvements with sizes.
 - 29.3.6.** Traffic control concept plans (traffic control approach) if applicable.
 - 29.3.7.** Identification of both special and standard details.
 - 29.3.8.** A complete list of construction drawings on cover sheet.
 - 29.3.9.** Definition of the construction method to be used for pipe installation.
 - 29.3.10.** A complete site plan including construction lay down areas, site grading, and erosion control, if applicable.
 - 29.3.11.** Other drawings such as paving, curb ramps, abandonment plans and traffic control plans as applicable.
 - 29.3.12.** Erosion control plan, storm water pollution prevention BMP's, landscaping plan, and habitat restoration, success criteria, long term maintenance, and conformance to the Multiple Habitat Planning Area land use adjacency guidelines as applicable.
 - 29.3.13.** List of special conditions, if any.
 - 29.3.14.** Quantity take-off per plan sheet.
 - 29.3.15.** A complete draft of specifications in The GREENBOOK format including:
 - 1. Table of contents.
 - 2. The Design-Build Special Provisions.
- 29.4.** 100 percent design Submittal - The 100 percent design submittal shall include but not be limited to:
 - 29.4.1.** Designs for construction of new facilities, and refurbishment and demolition of existing facilities.
 - 29.4.2.** Updated and incorporated information and comments from the 60 percent design submittal.
 - 29.4.3.** Completed, reviewed, and bound calculations and hydraulic calculations, if applicable

- 29.4.4. Updates to geotechnical report, if any.
- 29.4.5. Permit applications as necessary.
- 29.4.6. Completed specifications in Green-book format.
- 29.4.7. Quantity take-off.
- 29.4.8. Drawings in all disciplines, including final and traffic control Plans approved by City, if any.
- 29.4.9. A current written list of permits including environmental permits and revised MND required for the Project, identifying all permitting agencies and authorities having jurisdiction, and status and copies of permit approvals.

29.5. Final Design Submittal - The Design-Builder shall submit a pre-Final Design to the Engineer, which shall include but not be limited to:

- 29.5.1. Updated and incorporated information and comments from the 100 percent design Submittal.
- 29.5.2. Comments from permitting agencies, including a log of comments and responses.
- 29.5.3. A current written list of permits including environmental permits and revised MND required for the Project, identifying all permitting agencies and authorities having jurisdiction, and status and copies of permit approvals.
- 29.5.4. City will review the Pre-Final Design and return comments to the Design-Builder. The Design-Builder shall, within 20 Working Days of receipt of City's comments, submit a Final Design to the Engineer, which shall include but not be limited to:
 - 1. Updated and incorporated comments from the Pre-Final Design Submittal.
 - 2. Final drawings and calculations must be stamped and signed by a professional engineer. Also, the City requires the original wet-signed mylars be held in City files as legal records of the Project.
- 29.5.5. Final design drawings for construction of new facilities, and refurbishment and demolition of existing facilities.

29.6. Design Submittal Deliverables:

- 29.6.1. The Design City Engineer in the form of 6 copies of the specifications, 6 sets of half sized (11-inch x 17-inch) drawing prints, and 14 sets of full sized (24-inch x 36-inch) drawing prints.
 - 1. Drawing format shall conform to the City of San Diego CADD Standards and City provided "T" files. The standard scales are 1"=40' for plans and 1"=4' for profiles.

2. Drawings shall show all existing topographic and utility information and the horizontal alignment of proposed pipeline improvements.
- 29.6.2.** The Design-Builder shall deliver the pre-Final Design to the Engineer in the form of 6 copies of the specifications and 14 sets of half sized (11-inch x 17-inch) drawing prints.
- 29.6.3.** The Design-Builder shall submit all drawings in Bentley MicroStation V8 SE format per City's CADD Standards. The Design-Builder shall attend a coordination/orientation meeting with City's E&CP CADD specialist to review and discuss City's CADD standards. The Engineer will arrange for the meeting upon The Design-Builder's request. The Design-Builder shall also submit the Electronic In-Roads ALG file. The Design-Builder shall number proposed alignment points on plan views using the automated process through In-Roads Software. The Design- Builder shall also generate the Horizontal Alignment Coordinate Index report through In-Roads and place it on the last sheet of the drawings.
- 29.6.4.** The Design-Builder shall submit the Final Design documents to the Engineer, which shall include but not be limited to:
1. One complete set of full sized (24-inch x 36-inch) original mylar final drawing plots, each stamped and wet signed by The Design-Builder's qualified responsible engineers registered in the state of California. Applicable portions of the drawing title blocks shall also be signed by The Design-Builder.
 2. Six, 8½-inch by 11-inch copies of the final specifications, including all charts, graphs, tables, data sheets, and similar inserts required for a complete and approved copy suitable for Xerox reproduction.
 3. Two complete electronic file sets of the final specifications.
 4. Two complete electronic file sets of the final drawings on USB flash drive.
 5. Six complete and approved 8½-inch by 11-inch copies of the final construction cost estimate.
 6. Two complete electronic files of the final construction quantity takeoffs and cost estimate.
 7. Six complete sets of engineering calculations, including hydraulic, mechanical, electrical, and structural calculations, each wet stamped and signed by the Design-Builder's qualified responsible engineers registered in the state of California. The Design-Builder shall support all elements of the design presented by calculations the Design-Builder shall use only Windows compatible computer programs for Project calculations.

8. Other documents as required elsewhere in this Scope or required by the Engineer.
9. The Design-Builder shall use the following table as a minimum guide for preparation of the design drawings:

60% Submittal	
Title Block:	Street Names and Limits Drawing Number Title WBS Number
General:	North Arrow Scale Cover Sheet – Limits of Work
Proposed Plan:	Dimensioning Addresses Stationing Plugs and Dead End Details Pipe Sizes and Lengths Sewer Laterals Manholes
Existing Plan:	Ownership Lines Water Services and appurtenances Sewer Laterals and appurtenances Electric Lines, Boxes and Services Telco Lines, Boxes and Services Street Center Line Fire Services Lot Lines Right of Way Lines Street Names Stationing Trolley Tracks
Existing Profile:	Existing Water Mains Horizontal and Vertical Scale Elevation Scales Existing Grades / Existing Pavement

	Existing Utility Crossings with Elevations Street Names
Proposed Profile:	Stationing Pipe Size and Lengths
Sewer:	Manhole with Inverts
100% Submittal	
Title Block:	Lambert Coordinates Designer's / Drafter's Name Number of Street
General:	Street Name (RT Margin) Proposed Pipe Data Table Proposed Coordinate Table Construction Notes Details Reference Data Retirement Data
Proposed Plan:	Special Plan Notes Subdivision Name Subdivision Map Number Block Numbers Street Closures Caution Call-outs Split-Property
Proposed Profile:	Special Profile Notes Traffic Control Plans
Additional Sheets	Applicable to 60% and 100% Resurfacing Alignment Sheet BMP, Storm Drain Inlet Protection Plan Curb Ramp Sheet(s) Abandonment Plan Miscellaneous Details

29.7. The Design-Builder shall use MS Word format for all word processing.

29.8. The Design-Builder shall use MS Excel for all spreadsheets.

30. Community Relations and Public Outreach Program:

- 30.1.** The Design-Builder shall provide the necessary public information and outreach program for the Project. This program shall have a Public Information Officer (PIO) who will serve as the community liaison. Refer to The WHITEBOOK, section 7-16. The PIO shall work closely with the Communication Department's PIO section in the implementation of the public information and outreach program standards.
- 30.2.** The Design-Builder shall identify, within 10 Working Days of NTP, a specific professional designated to be a full-time public information liaison for the design build team, who shall work cooperatively with, and provide assistance to, the City's team. The Design-Builder shall be available to respond to questions from the community as needed for the duration of the Project, and shall participate in related public meetings. The Design-Builder shall prepare and provide presentation materials to explain the Project at community meetings and presentations.
- 30.3.** The Design-Builder shall prepare a complete Community Relations Plan. The Community Relations Plan shall be developed in coordination with the City and presented to the City for review within 30 Working Days of Notice to Proceed. If modifications are required, the City will notify and advise the Design-Builder.
- 30.4.** The Key stakeholders are identified as the public and the City of San Diego. The Design-Builder shall coordinate all activity and Right of Entry permit with the proper residents.
- 30.5.** The Community Relations Plan shall include the following scope and services but not limited to:
 - 30.5.1.** A method for conveying Project information to the public. Provide residents with update Project information and background information about the Project. Information shall be updated weekly, bi-weekly, monthly, or quarterly.
 - 30.5.2.** A method for construction notification in advance of the start of work.
 - 30.5.3.** Attendance and presentation of Project update before and during construction of Projects at community and stakeholder Meetings. Prepare presentation materials in coordination with the City.
 - 30.5.4.** Develop written list of follow-up information requested from the community.
 - 30.5.5.** Respond to telephone calls and e-mails. Standard telephone service and e-mail responses. Record calls and e-mails on electronic tracking form.
 - 30.5.6.** E-mail record of call information to The Design-Builder/Project Team. E-mail updates to stakeholders, Community Groups, City Council and other interested parties.
 - 30.5.7.** Create and maintain online Project webpage and newsletters.
 - 30.5.8.** Write, edit, update and/or produce brochures, pamphlets and news releases.

- 30.5.9.** Attend progress meeting and provide status of community relations activities.
- 30.5.10.** The plan shall also include a listing of businesses, schools, and major facilities along the alignment which are expected to be impacted by the construction, and proposed mitigation measures to lessen construction impacts.
- 30.5.11.** The plan shall specifically identify the lines of communication within the Design-Builder Team, between the Design-Builder Team and the City and between the Design Builder's public information liaison and the City. The Design-Builder shall be responsible for ensuring that the information to be provided to the public is consistent, updated and accurate.

31. Quality Assurance and Control:

- 31.1.** The Design-Builder shall be completely and solely responsible for Project quality assurance and quality control. The minimum acceptable quality assurance and quality control plan is described in the Quality Assurance/Quality Control Plan Guidelines, attached hereto and incorporated herein as Attachment A, section 32 – Quality Assurance / Quality Control Guidelines.
 - 31.1.1.** Design QA/QC - The Design-Builder shall be completely and solely responsible for Project quality assurance and quality control [QA/QC] during design.
 - 31.1.2.** Checklists - As part of the QA/QC Plan, The Design-Builder shall use the City-provided checklists and attach the checklists to the plans and specifications.
 - 31.1.3.** Final Design - The Design-Builder shall submit QA/QC records for the final specifications and drawings to verify coordination within the engineering discipline, between engineering disciplines, between the final specifications and drawings, and to verify consistency with existing City Projects.
 - 31.1.4.** Construction QA/QC - The Design-Builder shall be completely and solely responsible for Project QA/QC during construction.

32. Quality Assurance / Quality Control Guidelines:

32.1. General

- 32.1.1.** The Design-Builder shall be completely and solely responsible for Project quality assurance and quality control, both during design and during construction. This Attachment outlines the minimum requirements for an acceptable quality assurance and quality control plan [QA/QC Plan]. The cost for the Design-Builder's QA/QC Plan and its implementation shall be included in the Design-Builder's Proposal.
- 32.1.2.** The Design-Builder shall assign a QA/QC supervisor to ensure that all Work is performed in accordance with the Contract Documents, plans, specifications, manufacturers' instructions, Applicable Laws, and to acceptable industry standards.

- 32.1.3.** The Engineer will monitor the Design-Builder's Work and Services and provide independent reviews as set forth in the Contract Documents. If City's review or inspection uncovers Work or Services that do not conform to the Contract Documents or Applicable laws, City may reject that Work and/or Services and The Design-Builder shall replace or correct any deficiency at no additional cost to City.
- 32.1.4.** The concept of quality has evolved from conformance with specifications to meeting Owner requirements. The Design-Builder quality assurance and control has advanced from checking deliverables to multiple reviews, evaluations, inspections, and tests, concurrent with the Public Works Department reviews, oversight inspections, witnessing of tests, and similar quality assurance activities. Ultimately, the Design-Builder shall provide a facility that meets the requirements described in the Contract Documents.
- 32.1.5.** The Design-Builder shall respond to any QA/QC review comments by ensuring that the Design-Builder's staff considers the comments and notes the actions to be taken. The Design-Builder shall submit copies of the responses to the Engineer to indicate that the QA/QC review is complete and that the reviewers concur with the response.
- 32.1.6.** If The Design-Builder detects any impending deviations from the Scope, Project Schedule, or Project budget, the Design-Builder shall take appropriate action to correct such deviations or to obtain written approval from the Engineer if deviations cannot be avoided.
- 32.1.7.** The Design-Builder shall implement its QA/QC Plan that was submitted to City with The Design-Builder's RFP together with any revisions required by City, all of which are incorporated herein by this reference as though fully set forth herein.

32.2. QA/QC During Design

- 32.2.1.** This Section describes the mandatory QA/QC Plan philosophies and procedures that the Design-Builder shall follow during design of the Project.
- 32.2.2.** The Design-Builder is the engineer of record. City's review of Design-Builder's approved submittals is for the sole purpose of determining whether the submittals conform to the requirements of the Contract and to the Bridging Documents.
- 32.2.3.** The Design-Builder shall include in its Proposal all costs necessary to meet this requirement.
- 32.2.4.** The following quality objectives apply to the Project design:
 - 1. The Design-Builder shall design the Project facilities to meet the scope and objectives set forth in the Bridging Documents, which describe the Project facilities in moderate detail (layout, functions, etc.), thereby establishing the design requirements. The Design-Builder shall design the Project facilities to conform to these requirements except as modified by changes approved by City during design.

2. The Design-Builder shall design the Project facilities to conform to the requirements of the Contract Documents.
3. The Design-Builder shall prepare the Construction Documents to the standards of best engineering practice for clarity, uniformity, accuracy, and completeness.
4. The Design-Builder shall emphasize quality in the design and construction of the Project.

32.3. QA/QC Plan:

- 32.3.1.** Responsibilities: The Design-Builder shall ensure that all members of the Design-Builder's Project team (i.e., preparer, reviewer, checker, and approver) understand their responsibility for quality design.
- 32.3.2.** Design QA/QC Plan: The Design-Builder shall ensure that the design component of its QA/QC Plan includes a specific comprehensive approach to Project QA/QC Plan activities and requires documentation of the actual QA/QC Plan effort and related activities.
- 32.3.3.** Design Review: The Design-Builder shall address all plan check comments received from the City and implement its QA/QC plan prior to re-submittals to the City for review. The Design-Builder shall submit documentation of the QA/QC efforts and related activities as discussed in item 32.3.8., Review and Comment Form, below.
- 32.3.4.** Implementation: The Design-Builder shall be solely responsible for quality reviews and approval of its design work, and shall ensure that all design work is thoroughly checked, reviewed, and approved by qualified, experienced, knowledgeable personnel who were not involved in the original design work. The Design-Builder shall provide the following types of QA/QC design reviews:
 1. The Design-Builder shall ensure that calculation sheets are signed and dated by the personnel preparing, checking, reviewing, and approving the calculations. The Design-Builder shall index all original calculation sheets in file folders maintained in a single location so that all original calculations for the entire Project can be readily found. At the time the Final Design is accepted by City, The Design-Builder shall submit to the Engineer a legible copy of all calculations, organized in an easy to use indexed loose-leaf binder or in clearly identified file folders.
 2. The Design-Builder shall clearly identify any revisions to the calculations. The Design-Builder shall ensure that all revised calculations are checked, signed and cross-referenced to the original calculations.
- 32.3.5.** Calculations:
 1. The Design-Builder shall ensure that calculation sheets are signed and dated by the personnel preparing, checking, reviewing, and approving the calculations. The Design-Builder shall index all original calculation sheets in file folders maintained in a single location so that all original calculations for the entire Project can be readily found. At the time the Final Design is accepted by City, The Design-Builder shall submit to the Engineer a legible copy of all calculations, organized in an easy to use indexed loose-leaf binder or in clearly identified file folders.
 2. The Design-Builder shall clearly identify any revisions to the calculations. The Design-Builder shall ensure that all revised calculations are checked, signed and cross-referenced to the original calculations.

- 32.3.6.** The Design-Builder's Interdisciplinary Progress Reviews: The Design-Builder shall ensure that interdisciplinary progress reviews are held at the 60%, 100%, and Final Design phases and as specified in this RFP, and that the reviews include all completed calculations, drawings, and specifications. The level of detail expected for each discipline at each completion level is defined in this RFP. The Design-Builder shall ensure that all comments receive an agreed upon response and are recorded on The Design-Builder's Review and Comment Form (described in section 32.3.8 below). Design problems may arise from inconsistencies between disciplines. The Design-Builder shall assign one or more qualified engineers to perform detailed interdisciplinary reviews to ensure consistency between disciplines, and between drawings and the specifications.
- 32.3.7.** The Design-Builder's Final Review: The Design-Builder shall conduct the final QA/QC review after all 100% review comments have been incorporated and before printing of the Final Design submittal begins. The Design-Builder's final QA/QC review shall confirm that all previous review comments have been incorporated.
- 32.3.8.** Review and Comment Form: The Design-Builder shall establish and maintain Review and Comment Forms which shall contain the following information:
1. The name of the Project;
 2. City's contract number;
 3. The type of review being conducted;
 4. The name/title of the document being reviewed;
 5. Identification of the page, paragraph, or drawing being reviewed;
 6. The reviewer's comments;
 7. The designer's response to the reviewer's comments;
 8. The agreed upon resolution with respect to the comments and response;
 9. The reviewer's signature and date of review;
 10. The designer's signature and date of response; and
 11. The signature of the Design-Builder's Project manager and date of review.
- 32.3.9.** The Design-Builder shall ensure that each reviewer's comments are constructive and professional in tone, and that the forms are complete and appropriately filed.

32.4. QA/QC During Construction

- 32.4.1.** The Design-Builder shall ensure that all Work meets the quality required by the Contract Documents and shall perform the QA/QC efforts necessary to ensure those requirements are met. City's inspection of any Work will not relieve the Design-Builder of the primary responsibility for quality assurance and quality control.
- 32.4.2.** The Design-Builder shall take the following measures to ensure that the Work is completed in accordance with the Contract Documents:
1. Certification by the designer that the submittals, materials, equipment, and Work all conform to the accepted design.
 2. Certification by the vendors and suppliers that the products supplied conform to the Contract Documents, where applicable.
 3. Photos and videos of the Work certified by the designer.
 4. Any other measure designed to ensure that the Work is completed in accordance with the Contract Documents.
- 32.4.3.** Specific QA/QC requirements for the Work are set forth throughout the Contract Documents. The requirements of this Section are primarily related to performance of the Work beyond the furnishing of manufactured products the Design-Builder agrees that the term "Quality Control" as used herein includes inspection, sampling and testing, and associated requirements.
- 32.4.4.** Factory Inspections and Tests:
1. The Design-Builder agrees that all products, materials, and equipment, shall be subject to inspections, tests, and witness tests by City at the place of manufacture or fabrication.
 2. The Design-Builder agrees that City may, at its option, enter into separate contracts with consultants or others to conduct inspections, tests, and witness tests on behalf of City.
 3. The Design-Builder agrees that the presence of City, its employees, agents, and/or representatives at inspections, tests, and/or witness tests shall not relieve the Design-Builder of the sole responsibility for providing products, materials, and equipment that comply with all requirements of the Contract Documents. The Design-Builder agrees that compliance is the responsibility of the Design-Builder and shall not be avoided by any act or omission on the part of City or its employees, agents, and/or representatives.
 4. The Design-Builder shall provide City with 10 Working Days advance notice of any testing at the place of manufacture or fabrication. At City's option, City, its employees, agents, and/or representatives may conduct inspections and tests at the manufacturing place any time without advance notice to the Design-Builder.

32.4.5. Sampling and Testing:

1. Unless specifically provided otherwise in the Contract Documents, the Design-Builder shall conduct all sampling and testing in accordance with the methods prescribed in the current standards of the ASTM, as applicable to the class and nature of the material, product, or equipment being considered. However, City may accept any other generally-accepted system of sampling and testing that will ensure that the quality of the material, product, or equipment complies with the requirements of the Contract Documents. The Design-Builder shall obtain a Change Order from the Engineer prior to using any other generally-accepted system of sampling and testing.
2. Any waiver by City of any specific testing or other QA/QC Plan measures shall not be binding on City except when formalized by a fully executed Change Order, regardless of whether the waiver is accompanied by a guarantee of substantial performance as a relief from the specified testing or other QA/QC requirements as originally specified, and of whether the guarantee is accompanied by a performance bond to assure execution of any necessary corrective or remedial work.
3. The City may inspect and make independent investigations and tests of the Work. The Design-Builder agrees that if any portion of the Work fails to meet any of the requirements of the Contract Documents, City may require the Design-Builder to remove, correct, or reconstruct the Work in accordance with the Contract Documents.

32.4.6. Inspection and Testing Laboratory Service:

1. The City may require that Work located in the City right-of-way be tested by the City's testing laboratory. The Design-Builder shall coordinate with the Engineer to cause such tests to be performed.
2. Inspections, testing, and other services that are to be performed by the City, whether specified in the Contract Documents or required by the Engineer, will be performed by City's testing laboratory. The cost of these services will be paid for by City.
3. City's testing laboratory will submit reports in duplicate to the Engineer. The reports will document observations, results of tests, and compliance or non-compliance with the Contract Documents.
4. The Design-Builder shall cooperate with the Engineer and City's Testing Laboratory by furnishing samples of materials, concrete design mix, equipment, tools, and storage, and by providing other assistance as requested by City.
5. The Design-Builder shall notify the Engineer 48 hours prior to commencement of Work requiring inspection and laboratory testing services.

6. The Engineer will direct that any retesting required because of non-conformance to the Contract Documents be performed by the laboratory that performed the original test. Design-Builder shall bear all costs from any such retesting at no additional cost to City.
7. The Design-Builder shall be responsible for all tests required by the specifications or referenced codes and standards, unless specifically noted otherwise in the Contract Documents.

32.4.7. Special Inspection:

1. The Design-Builder shall provide all special inspections required by the California Building Code as currently adopted by City, including all inspections performed off the Project Site. The Design-Builder shall pay the cost of such inspections, and shall include the cost in DB's Proposal.

32.4.8. Installation:

1. Inspection: The Design-Builder shall inspect materials and/or equipment upon their arrival at the Project Site and immediately prior to installation. The Design-Builder shall reject damaged and defective materials and/or equipment. The Design-Builder's inspection shall include:
 - a) A review of the Contract requirements;
 - b) Verification that all materials and/or equipment have been tested, submitted, and approved;
 - c) Examination of the Work area to ascertain that all preliminary Work has been completed;
 - d) A physical examination of materials and/or equipment to ensure that they conform to the Design-Builder approved and City-accepted Shop Drawings or other submittal data;
 - e) Instruction as necessary to ensure that Design-Builder's workers understand the requirements of the Contract as they pertain to the materials and/or equipment;
 - f) An examination of the quality of workmanship; and
 - g) A review of control testing for compliance with the Contract requirements.
2. Measurements: The Design-Builder shall verify measurements and dimensions of the Work as an integral step of starting each installation. The Design-Builder shall be solely responsible for proper fit up and connection of components.

3. Special Procedures: The Design-Builder shall provide methods and facilities to ensure conformance with requirements for special process specifications such as nondestructive testing of materials. The Design-Builder shall maintain certifications for personnel, procedures, and equipment as necessary to meet the requirements of the Contract Documents and all Applicable laws.
4. Manufacturer's Instructions: The Design-Builder shall comply with applicable manufacturer's instructions and recommendations for installation, if those instructions and recommendations are more explicit and/or more stringent than the requirements of the Contract Documents.
5. Storage and care: If not immediately installed, the Design-Builder shall store and care for all materials and/or equipment delivered to the Project Site according to the manufacturer's recommendations.

32.4.9. Manufacturer's Field Installation Services and Reports:

1. When required by the specifications, the Design-Builder shall cause material or product suppliers or manufacturers to provide qualified personnel to:
 - a) Observe and evaluate:
 - (i) Project Site conditions;
 - (ii) Conditions of surfaces and installation;
 - (iii) Quality of workmanship;
 - (iv) Start-up of equipment; and
 - (v) Testing, adjusting, and balancing of equipment.
 - b) Provide instructions when necessary.
2. The Design-Builder shall report in writing to the Engineer any observations and Project Site decisions or instructions given to the Design-Builder by a material or product supplier or manufacturer's personnel that are supplemental or contrary to the written instructions of the material or product supplier or manufacturer.
3. Within 10 Working Days of each field visit, The Design-Builder shall submit in duplicate to the Engineer for review and acceptance final reports from a material or product supplier or manufacturer's personnel. If the duration of the field visit is greater than 1 week, the Design-Builder shall submit weekly reports. Each final report shall certify that equipment or system has been satisfactorily installed and is functioning correctly.

32.4.10. Sample City QA/QC Checklists:

1. Sample City Checklists are available for review and use from the Engineer.

33. Noise Abatement and Control:

- 33.1.** The Design-Builder shall comply with San Diego Municipal Code, Noise Abatement and Control (Sections 59.5.0401, Sound Level Limits, and 59.5.0404, Construction Noise), and the County of San Diego Code of Regulatory Ordinances, Noise Abatement and Control. In the event of conflict, the most stringent requirement shall apply.
- 33.2.** Noise levels generated by construction activity shall not exceed an average of 75 decibels at the residential property line between the hours of 8:30 a.m. to 3:30 p.m. each Working Day. The Design-Builder shall obtain a Noise Permit to conduct work activities taking place before 7:00 AM or after 7:00 PM, each Working Day, or any time on days other than Working Days.
- 33.3.** If the Design-Builder desires to conduct Work activities during times when a Noise Permit is required, the Design-Builder shall obtain prior written authorization from the Engineer not less than 48 hours in advance, and shall apply for, obtain, and pay for the Noise Permit at no additional cost to City.

34. Project Meetings:

- 34.1.** Progress Meetings – Design Phase - The Design-Builder shall schedule and hold regular progress meetings at least monthly and at other times as requested by the Engineer. Prior to a progress meeting, the Design-Builder shall submit its progress meeting format to the Engineer for review and acceptance. The Design-Builder shall also submit to the Engineer for review and acceptance:

- i) A meeting agenda prior to each meeting; and
- ii) Minutes of each meeting prior to the next meeting.

The Design-Builder shall ensure that its key personnel attend the progress meetings.

- 34.2.** Progress Meetings – Construction Phase - The Design-Builder shall schedule and hold regular weekly progress meetings and at other times as requested by the Engineer. The Design-Builder shall report in writing to the Engineer the previous week's progress and the plans for the upcoming three weeks. Twenty-four hours prior to each progress meeting, Design- Builder shall provide to the Engineer a two-week window (look-ahead) schedule showing activities from the accepted Project Schedule that are to take place during this period, activities started but not yet completed, and activities which have begun out of sequence. Prior to a progress meeting, the Design-Builder shall submit its progress meeting format to the Engineer for review and acceptance. The Design-Builder shall also submit to the Engineer for review and acceptance:

- i) A meeting agenda prior to each meeting; and
- ii) Minutes of each meeting prior to the next meeting.

The Design-Builder shall ensure that its key personnel attend the progress meetings. In addition, the Design-Builder may, at its discretion, request attendance by representatives of its suppliers, vendors, manufacturers, and other subcontractors.

- 34.3.** Public Meetings - During the course of the Project, a minimum of 2 of the Design-Builder's key personnel and the Engineer shall attend community meetings as part of the Design-Builder's community outreach program. Typically, these meetings are scheduled for two to four hours on weekday evenings. At a minimum, 1 meeting will be scheduled at 60 percent design review and the other just prior to construction. The Engineer may direct the Design-Builder to attend other meetings at no additional cost.
- 34.4.** Other Meetings - From time to time during the Project, the Engineer may direct the Design-Builder to attend other meetings. These may include but are not limited to meetings with environmental or regulatory agencies, meetings with Water Operations, utility companies, and other City divisions or departments. These meetings shall be done at no additional cost.
- 34.5.** The Design-Builder shall prepare and submit typical meeting minutes of all meetings including a list of attendees, contact information, proceedings, and all pertinent information.

35. Red-lines:

- 35.1.** The Design-Builder shall be responsible for Red-lines as described in Section 2-5.4 Red Lines and Record Documents.
- 35.2.** Prior to final completion, The Design-Builder shall prepare and submit one complete set of full sized (24-inch x 36-inch) original mylar final As-Built Drawing CADD plots in accordance with the City's CADD Guideline. Each CADD mylar drawing sheet shall be stamped and signed by qualified responsible engineers registered in the State of California, and shall be stamped and wet signed by the architect/engineer of record, as required by law. Other applicable portions of the drawing title blocks shall also be signed by the Design-Builder. Drawing mylar shall be 3 mils minimum thickness.
- 35.3.** Prior to Final Completion, the Design-Builder shall also submit:
 - 35.3.1.** Five complete full-sized sets of blueprint or copies of the final As-Builts.
 - 35.3.2.** Two complete electronic file sets of the final As-Builts on CDs (typical) prepared in the V8 version of Bentley MicroStation Version SE CADD software in accordance with City's CADD Guideline.

36. Record Keeping:

- 36.1.** The Design-Builder shall maintain in a safe place at the Project Site a copy of construction documents (including field test records, correspondence, daily reports, and written interpretations and clarifications), Shop Drawings, Product Data, and Samples in good order. Field Documents, Shop Drawings, Product Data, Samples, and similar submittals are not part of the Contract Documents. The purpose of these

documents is to demonstrate construction conformance to the Contract Documents, and the City shall have the right to inspect, audit, review, and copy these documents at any reasonable time.

- 36.2.** The Design-Builder shall not have the authority to approve a Sample or other submittal that is not in strict conformance with the Contract Documents or the accepted final design, unless City has accepted the substitute. No Work requiring a submittal or sample submission shall commence until the submission has been approved by the Design-Builder. A copy of each approved submittal and each approved sample shall be kept in order by the Design-Builder at the Project Site.
- 36.3.** The Design-Builder shall list and schedule submittals to be made and upon approval of each submittal transmit to City, within 5 Working Days, 2 copies of same. Failure to deliver the copies of approved submittals may result in withholding of progress payments.
- 36.4.** The Design-Builder shall not be relieved of responsibility for any deviations from the requirements of the Contract Documents by City's acceptance of Shop Drawings, Product Data, Samples, or similar submittals unless the Design-Builder has specifically informed City of such deviation at the time of the submittal and City has accepted the specific deviation in writing. The Design-Builder shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by City's acceptance thereof. At the time of each submission, the Design-Builder shall, in writing, specifically identify deviations that the submittals or Samples may have from the requirements of the Contract Documents.

37. Required Test/Material Certificates:

- 37.1.** The Design-Builder shall ensure that all tests are performed in accordance with the methods prescribed in the most current applicable national standard as may be required by law and as prescribed in the Contract Documents. Materials or Work in place that fails to pass acceptability tests shall be retested, at the direction of City and at the Design-Builder's sole expense. The Design-Builder shall submit all test certificates to City in a timely manner.

38. Traffic Control:

- 38.1.** If a Task Order is awarded, the City will require the Design-Builder to develop a Traffic Control Plan which minimizes environmental impacts, including noise, to residences, businesses, and institutions. The City will also require the final Traffic Control Plan to incorporate input from the community as well as from City staff.

39. Reference Standards:

- 39.1.** Except as otherwise noted or specified, the Work shall be completed in accordance with reference standards listed in **INSTRUCTIONS TO PROPOSERS AND GENERAL CONDITIONS** of this RFP.

40. Design Guidelines:

- 40.1.** Americans with Disabilities Act (ADA) | Americans with Disabilities Act Accessibility Guidelines (ADAAG)
- 40.2.** American Water Works Association (AWWA)
- 40.3.** California Building Code as adopted by the City of San Diego*
- 40.4.** California Code of Regulations, Title 24
- 40.5.** City of San Diego Approved Materials List (AML) as approved by the Water (<http://www.sandiego.gov/water/cip/guidelines.shtml>) and Metropolitan Wastewater Departments (<http://www.sandiego.gov/mwwd/business/sewer.shtml>)
- 40.6.** City of San Diego Computer Aided Design and Drafting (CADD), <http://www.sandiego.gov/publicworks/edocref/drawings.shtml>
- 40.7.** City of San Diego Landscape Technical Manual
- 40.8.** City of San Diego's Manual of Preparation of Land Development and Public Improvement plans
<http://www.sandiego.gov/development-services/industry/landdevcode/landdevmanual.shtml>
- 40.9.** City of San Diego Street Design Manual,
https://www.sandiego.gov/sites/default/files/street_design_manual_march_2017-final.pdf
- 40.10.** City of San Diego Technical Guidelines for Geotechnical Reports,
<http://www.sandiego.gov/development-services/pdf/industry/geoguidelines.pdf>
- 40.11.** City of San Diego, Water Department Guidelines and Standards Books 1 through 7
<http://www.sandiego.gov/water/cip/guidelines.shtml>
- 40.12.** County of San Diego Code of Regulations
- 40.13.** National Electric Code (NBC) as adopted by the City of San Diego*
- 40.14.** State of California Health and Safety Code
- 40.15.** Uniform Fire Code (UFC) as adopted by the City of San Diego*
- 40.16.** Uniform Mechanical Code (UMC) as adopted by the City of San Diego*
- 40.17.** Uniform Plumbing Code (UPC) as adopted by the City of San Diego*
- 40.18.** Construction Planning & Scheduling Manual by AGC of America

40.19. The National Environmental Policy Act (NEPA) and other development standards contained in the San Diego Municipal Code (SDMC) and other State and Federal regulatory documents

40.20. City of San Diego Municipal Code;

<http://www.sandiego.gov/city-clerk/officialdocs/legisdocs/muni.shtml>

40.21. State Historic Preservation Act

40.22. Storm Water Standards Manual

<https://www.sandiego.gov/stormwater/regulations>

*Any and all codes, regulations, and permits (including amendments) issued by City's Planning and Development Services Department.

41. Bridging Documents:

41.1. The following is a list of the Bridging Documents for this project available at:

<https://filecloud.sandiego.gov/url/f24fcnmyckba>

1. Preliminary Engineering Report
2. Planning Documents\ Preliminary Environmental Assessment
3. Predesign Water Maps
4. Predesign Sewer Map
5. Planning Documents\ Predesign OCI Index Maps
6. Planning Documents\ Predesign Paving Conflict Maps
7. Planning Documents\ Predesign Constraints Maps
8. IMCAT Screenshot
9. Traffic Count Data
10. As-Built Plans
11. As-Built\ AT&T
12. As-Built\ Public
13. As-Built\ SDG&E
14. CMP Storm Drain Maps

42. Supplemental Requirements: All submitted hardcopy drawings and documents shall also be provided to the City in PDF format with electronically searchable text (not scanned images) to include drawings, specifications, details, reports, RFI's, Invoices, and all other documents of every type. Excel files of documents shall be provided when requested by the City.

- 42.1.** The Design-Builder shall do all work as needed to accomplish the scope of work generally in accordance with the findings and recommendations in the Planning Study and the Preliminary Engineering Report (see bridging documents).
- 42.2.** Only ADA improvements triggered by this project shall be included in the design. New sidewalks are not included except to replace portions triggered by ADA compliance requirements. See bridging documents.
- 42.3.** The Design-Builder shall identify all existing fire services by field inspection, research of City records specifically including the City PUD cross connection database, and water billing records, and research of as-builts. Design-Builder shall provide all work necessary to reconnect all existing fire services.
- 42.4.** Gate valves shall be used for water main up to and including 12" size. Butterfly valves shall be used on 16" or larger water mains which shall have a bypass installed for transmission mains only Valves shall be size on size to match fittings and reducers shall not be used to provide reduced size valves in lieu of this.
- 42.5.** Five (5) feet of cover is required for all 16" transmission mains per the City Water Design Guide. Where this is not feasible or cost-effective the Design-Builder shall provide justification including calculations sufficient for the City PUD to allow an exception where appropriate.
- 42.6.** This RFP provides as-built drawings and other information collected during preliminary planning for this project. The Design/Builder shall be responsible for researching and obtaining all as-built drawings and any other information from the City and/or other agencies which will be necessary to complete the scope of work.
- 42.7.** The Design-Builder shall resolve design and construction problems by a typical professional process including but not limited to research, field investigation, developing alternates, calculations, cost-effective analysis, making decisions/recommendations and obtaining City concurrence as needed. This process shall be diligently followed before the Design-Builder seeks direction from the City.
- 42.8.** The Design-Builder shall follow the City standard practice for design and construction when not specifically addressed in the RFP scope of work, reference documents, and design guides.
- 42.9.** The Design/Builder shall submit a brief monthly progress report in a format acceptable to the City, with map illustrating where water, sewer, and storm drain pipe was installed, feet installed, total feet and percent complete (see bridging documents example Sample Progress Map) for the entire duration of the project.
- 42.10.** The City shall not be responsible for any assumptions the Design-Builder based their price proposal on, and the Design-Builder shall not be entitled to any additional payment for any such assumptions on which their price was based.

- 42.11.** The price proposal shall include all work and materials, and any references in this RFP to unit price, lump sum price, bid price or similar language shall not entitle the Design-Builder to any additional payment.
- 42.12.** The price proposal shall include all work and materials, and any references to or requirements for restricted work hours and/or night work shall not entitle the Design-Builder to any additional payment.
- 42.13.** The Design-Builder shall perform all work described in the Preliminary Engineering Report, Page 7, Sec 3.2.1 Street Resurfacing to define the paving scope of work.
- 42.14.** The Design-builder shall submit a Schedule of Values (SOV) with substantiating data that must include estimated quantities, unit costs, and extensions for each construction item in the SOV.
- 42.15.** The RFP's maps and descriptions of proposed improvements such as "replace in place" are conceptual only and deviations from this in the final design by the Design-Builder shall not entitle the Design-Builder to any additional payment.

ATTACHMENT B
PHASED FUNDING PROVISIONS

PHASED FUNDING PROVISIONS

1. PRE-AWARD

- 1.1 Within 10 Working Days after the Bid Opening date, the Apparent Low Bidder must contact the Project Manager to discuss fund availability for each phase and shall also submit the following:
 - 1.1.1 Construction Cost Loaded Schedule in accordance with 6-1, "CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK" and 9-3, "PAYMENT.
- 1.2 Your failure to perform any of the following may result cancelling your award of the Contract:
 - 1.2.1 Meeting with the City's Project Manager to discuss the Phased Funding Schedule.
 - 1.2.2 Agreeing to a Phased Funding Schedule within 22 Working Days after meeting with the City's Project Manager.

2. POST-AWARD

- 2.1 Do not start any construction activities for the next phase until the NTP has been issued by the Engineer. The City will issue separate Notice to Proceed (NTP) documents for each phase.
- 2.2 If requested, the Engineer may issue the NTP for the next phase before the end of the current approved phase.

PHASED FUNDING SCHEDULE AGREEMENT

The particulars left blank in this sample, such as the total number of phases and the amounts assigned to each phase, will be completed with funding specific information from the Pre-Award Schedule and Construction Cost Loaded Schedule submitted to and approved by the City.

BID NUMBER: K-18-1561-MAC-3

CONTRACTOR TASK TITLE: MACC Task #8 - AC Water & Sewer Group 1024

CONTRACTOR: Orion Construction Corp / Balboa Construction, Inv. J.V.

Funding Phase	Phase Description	Phase Start	Phase Finish	Not-to-Exceed Amount
1	Bonds, Surveying, Potholing, 100% Design Phase 1, 60% Design Phase 2	NTP	10/31/2018	\$848,300 (W) \$149,700 (S)
2	Completion of Design, Water and Sewer Construction, WPCP	11/01/2018	10/31/2019	\$5,793,200 (W) \$1,604,692 (S)
3	Water and Sewer Construction Completion	11/01/2019	NOC	\$4,164,800 (W) \$263,200 (S)
Contract Total				\$12,823,892.00

Notes:

- 1) WHITEBOOK section 9-3.6, "Phased Funding Compensation" applies.
- 2) The total of all funding phases shall be equal to the TOTAL BID PRICE as shown on BID SCHEDULE 1 - PRICES.
- 3) This PHASED FUNDING SCHEDULE AGREEMENT will be incorporated into the CONTRACT and shall only be revised by written modifications to the CONTRACT.

CITY OF SAN DIEGO

CONTRACTOR

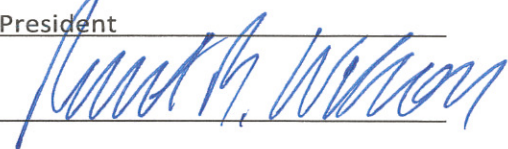
PRINT NAME: Steve Lindsay
Construction Manager

PRINT NAME: Robert B. Wilson

Signature: 

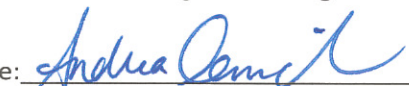
Title: Vice President

Date: 3/15/18

Signature: 

PRINT NAME: Andrea Demich
Project Manager

Date: 02/22/2018

Signature: 

Date: 3/7/2018

ATTACHMENT C
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ATTACHMENT D
PREVAILING WAGES

ATTACHMENT D

PREVAILING WAGES

1. **PREVAILING WAGE RATES:** Pursuant to San Diego Municipal Code section 22.3019, construction, alteration, demolition, repair and maintenance work performed under this Contract is subject to State prevailing wage laws. For construction work performed under this Contract cumulatively exceeding \$25,000 and for alteration, demolition, repair and maintenance work performed under this Contract cumulatively exceeding \$15,000, the Contractor and its subcontractors shall comply with State prevailing wage laws including, but not limited to, the requirements listed below.
 - 1.1. **Compliance with Prevailing Wage Requirements.** Pursuant to sections 1720 through 1861 of the California Labor Code, the Contractor and its subcontractors shall ensure that all workers who perform work under this Contract are paid not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations (DIR). This includes work performed during the design and preconstruction phases of construction including, but not limited to, inspection and land surveying work.
 - 1.1.1. Copies of such prevailing rate of per diem wages are on file at the City and are available for inspection to any interested party on request. Copies of the prevailing rate of per diem wages also may be found at <http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>. Contractor and its subcontractors shall post a copy of the prevailing rate of per diem wages determination at each job site and shall make them available to any interested party upon request.
 - 1.1.2. The wage rates determined by the DIR refer to expiration dates. If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, then the published rate of wage shall be in effect for the life of this Contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the DIR, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this Contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of this Contract, each successive predetermined wage rate shall apply to this Contract on the date following the expiration date of the previous wage rate. If the last of such predetermined wage rates expires during the life of this Contract, such wage rate shall apply to the balance of the Contract.
 - 1.2. **Penalties for Violations.** Contractor and its subcontractors shall comply with California Labor Code section 1775 in the event a worker is paid less than the prevailing wage rate for the work or craft in which the worker is employed.

- 1.3. Payroll Records.** Contractor and its subcontractors shall comply with California Labor Code section 1776, which generally requires keeping accurate payroll records, verifying and certifying payroll records, and making them available for inspection. Contractor shall require its subcontractors to also comply with section 1776. Contractor and its subcontractors shall submit weekly certified payroll records online via the City's web-based Labor Compliance Program. Contractor is responsible for ensuring its subcontractors submit certified payroll records to the City.
- 1.3.1.** For contracts entered into on or after April 1, 2015, Contractor and their subcontractors shall furnish records specified in Labor Code section 1776 directly to the Labor Commissioner in the manner required by Labor Code section 1771.4.
- 1.4. Apprentices.** Contractor and its subcontractors shall comply with California Labor Code sections 1777.5, 1777.6 and 1777.7 concerning the employment and wages of apprentices. Contractor is held responsible for the compliance of their subcontractors with sections 1777.5, 1777.6 and 1777.7.
- 1.5. Working Hours.** Contractor and their subcontractors shall comply with California Labor Code sections 1810 through 1815, including but not limited to: (i) restrict working hours on public works contracts to eight hours a day and forty hours a week, unless all hours worked in excess of 8 hours per day are compensated at not less than 1½ times the basic rate of pay; and (ii) specify penalties to be imposed on design professionals and subcontractors of \$25 per worker per day for each day the worker works more than 8 hours per day and 40 hours per week in violation of California Labor Code sections 1810 through 1815.
- 1.6. Required Provisions for Subcontracts.** Contractor shall include at a minimum a copy of the following provisions in any contract they enter into with a subcontractor: California Labor Code sections 1771, 1771.1, 1775, 1776, 1777.5, 1810, 1813, 1815, 1860 and 1861.
- 1.7. Labor Code Section 1861 Certification.** Contractor in accordance with California Labor Code section 3700 is required to secure the payment of compensation of its employees and by signing this Contract, Contractor certifies that "I am aware of the provisions of Section 3700 of the California 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."
- 1.8. Labor Compliance Program.** The City has its own Labor Compliance Program authorized in August 2011 by the DIR. The City will withhold contract payments when payroll records are delinquent or deemed inadequate by the City or other governmental entity, or it has been established after an investigation by the City or other governmental entity that underpayment(s) have occurred. For questions or assistance, please contact the City of San Diego's Equal Opportunity Contracting Department at 619-236-6000.

1.9. Contractor and Subcontractor Registration Requirements. This project is subject to compliance monitoring and enforcement by the DIR. As of March 1, 2015, no contractor or subcontractor may be listed on a bid or proposal for a public works project unless registered with the DIR pursuant to Labor Code section 1725.5. As of April 1, 2015, a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, or enter into any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5. By submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the DIR in compliance with Labor Code sections 1771.1 and 1725.5, and Contractor shall provide proof of registration to the City upon request.

1.9.1. A Contractor's inadvertent error in listing a subcontractor who is not registered pursuant to Labor Code section 1725.5 in response to a solicitation shall not be grounds for filing a bid protest or grounds for considering the bid non-responsive provided that any of the following apply: (1) the subcontractor is registered prior to bid opening; (2) within twenty-four hours after the bid opening, the subcontractor is registered and has paid the penalty registration fee specified in Labor Code section 1725.5; or (3) the subcontractor is replaced by another registered subcontractor pursuant to Public Contract Code section 4107.

ATTACHMENT E
SUPPLEMENTARY SPECIAL PROVISIONS

SUPPLEMENTARY SPECIAL PROVISIONS

The following Supplementary Special Provisions (SSP) modifies the following documents:

1. The **2015 Edition** of the Standard Specifications for Public Works Construction (The "GREENBOOK").
2. The **2015 Edition** of the City of San Diego Standard Specifications for Public Works Construction (The "WHITEBOOK"), including the following:
 - a) General Provisions (A) for all Contracts.
 - b) General Provisions (C) for Design-Build Contracts.

SECTION 1 - TERMS, DEFINITIONS, ABBREVIATIONS, UNITS OF MEASURE, AND SYMBOLS

- 1-2 TERMS AND DEFINITIONS.** To the "WHITEBOOK", item 54, "Normal Working Hours", ADD the following:

The **Normal Working Hours** are 7:30 AM to 3:30 PM.

SECTION 2 - SCOPE AND CONTROL OF WORK

- 2-3.2 Self Performance.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall perform, with your own organization, Contract Work amounting to at least 50% of the base Bid **AND** 50% of any alternates.

- 2-9.2 Survey Service.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Prior to the start of design, you shall submit a letter to the Engineer identifying the Licensed Land Surveyor or the Registered Civil Engineer authorized to practice land surveying within the State of California that will be performing the design phase survey services for the Project.
2. You are responsible for performing and meeting the accuracy of surveying standards adequate for construction through a Licensed Land Surveyor or a Registered Civil Engineer authorized to practice land surveying within the State of California.
3. Construction survey stakes shall be set and stationed by the City. A corresponding cut or fill to finished grade (or flow line) shall be indicated on a grade sheet.

4. Surveys performed shall list the basis of bearings as tied to Record of Survey 14492 or equivalent, based on the California Coordinate System of 1983, Zone 6, U.S. Survey foot, epoch 1991.35, along with a completed calibration sheet (blank form will be supplied by City Surveys). The vertical datum used shall be NGVD 29 in accordance with the City of San Diego Vertical Bench Book.
5. You shall preserve construction survey stakes, control points, and other survey related marks for the duration of the Project. If any construction survey stakes are lost or disturbed and need to be replaced, such replacement shall be performed by the Engineer at your expense.
6. Design Survey Services and any additional construction Survey Services shall be procured or performed by the Design Consultant.

2-9.2.1 Survey Files.

1. All Computer Aided Drafting (CAD) Work shall be done in accordance with the City of San Diego's Citywide Computer Aided Design and Drafting (CADD) Standards and shall be in City seed files (.job, .txt, .dgn, .alg, .raw, .fwd, .dtm, .pdf, .docx, .xlsx, .tif, and .jpg).
2. All survey files shall be completed in accordance with the City of San Diego's Citywide CADD Standards and shall adhere to the City's Microstation level and attribute structure.
3. The survey file deliverable will be either one Master .dgn file containing all xref's in geospatially referenced (and attached) models or one Master dgn with all xref's geospatially referenced (and attached) as dgn files. Resource files may be sent to you if requested.
4. Survey files shall include, but shall not be limited to, the following items:
 - a) Street center line and (record width) right-of-way lines.
 - b) Project geometry (.alg) files (this will be generated for use in InRoads).
 - c) 3D surface model (.dtm, break line and spot elevation) file.
 - d) Spot elevations of the new utility main at each intersection, midblocks, and for any change in grade.
 - e) Monuments.
 - f) Curb lines (top curb and gutter).
 - g) All other appurtenances including but not limited to water valves, meters, vaults, manholes, fire hydrants, utility boxes, cleanouts, and poles.
5. You shall use the survey information to produce red-lines drawings as described in Section 2-5.4 "Red-lines and Record Documents."

2-9.2.2 Submittal.

1. Survey files shall be submitted in accordance with 2-5.3, "Submittals" and 2-5.4, "Red-Lines and Record Documents". You shall provide the Survey Files, proposed Drawings, and/or Red-line Drawings on a CD/DVD to the Engineer

and shall post the Survey Files, proposed Drawings, and/or Red-line Drawings to the following website:

2. <https://filecloud.sandiego.gov/url/qycir0d2itcp> After the documents have been posted to the website, you shall send a confirmation email, which includes the hyperlink to the website, to the Engineer and to SurveyReview@sandiego.gov.
3. All survey Work and submittals which reveal non-compliance with the requirements of the Construction Documents shall be corrected as deemed necessary by the Engineer and the cost of the corrections to your survey submittals shall be at your expense.

2-9.2.3 Payment.

1. The payment for survey services Work shall be paid through the Lump Sum Bid Item for "Survey Services".

**ADD:
2-10**

AUTHORITY OF THE BOARD AND THE ENGINEER. To the "GREENBOOK", Paragraph (2), DELETE in its entirety and SUBSTITUTE with the following:

The decision of the Engineer is final and binding on all questions relating to: quantities; acceptability of material, equipment, or work; execution, progress or sequence of work; requests for information (RFI), and interpretation of the Plans, Specifications, or other Contract Documents. This shall be precedent to any payment under the Contract. The Engineer shall be the single point of contact and shall be included in all communications.

2-14.3 Coordination. To the "WHITEBOOK", ADD the following:

2. Other adjacent City projects are scheduled for construction for the same time period in the vicinity of Imperial Ave & Stork St. See Appendix "F" for the approximate location. Coordinate the Work with the adjacent projects as listed below:
 - a) Group Water Job 969, Carlos Navarro II (619-527-3106)

2-16 CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM. To the "WHITEBOOK", item 1, DELETE in its entirety.

SECTION 3 – CHANGES IN WORK

3-5.1 Claims. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

**ADD:
3-5.1**

Claims.

1. A Claim is a written demand by you that seeks an adjustment in the Contract Price, Contract Time, or other relief associated with a dispute arising under or relating to the Contract, including a breach of any provision thereof. A voucher, invoice, or other routine request for payment is not a Claim.

2. A Claim shall conform to these specifications and may be considered after the City has previously denied a request by you for a Change Order seeking the demanded relief.
3. You shall submit a Claim to the Engineer if a dispute occurs that arises from or relates to the Contract. The Claim shall seek all relief to which you assert you are entitled as a result of the event(s) giving rise to the dispute. Your failure to process a Claim in accordance with these specifications shall constitute a waiver of all relief associated with the dispute. Claims are subject to 6-11, "Right to Audit".
4. You shall continue to perform the Services and Work and shall maintain the Schedule during any dispute proceedings. The Engineer will continue to make payments for undisputed Services and Work.
5. The City's Claims process specified herein shall not relieve you of your statutory obligations to present claims prior to any action under the California Government Code.

3-5.1.1 Initiation of Claim.

1. You shall promptly, but no later than 30 Days after the event(s) giving rise to the Claim, deliver the Claim to the Engineer.
2. You shall not process a Claim unless the Engineer has previously denied a request by you for a Change Order that sought the relief to be pursued in the claim.

3-5.1.1.1 Claim Certification Submittal.

1. If your Claim seeks an increase in the Contract Price, the Contract Time, or both, submit with the Claim an affidavit certifying the following:
 - a) The Claim is made in good faith and covers all costs and delays to which you are entitled as a result of the event(s) giving rise to the Claim.
 - b) The amount claimed accurately reflects the adjustments in the Contract Price, the Contract Time, or both to which you believe you are entitled.
 - c) All supporting costs and pricing data are current, accurate, and complete to the best of your knowledge. The cost breakdown per item of Work shall be supplied.
 - d) You shall ensure that the affidavit is executed by an official who has the authority to legally bind you.

3-5.1.2 Initial Determination.

1. The Engineer will respond in writing to your Claim within 30 Days of receipt of the Claim.

3-5.1.3 Settlement Meeting.

1. If you disagree with the Initial Determination, you shall request a Settlement Meeting within 30 Days. Upon receipt of this request, the Engineer will schedule the Settlement Meeting within 15 Working Days.

3-5.1.7 City's Final Determination.

1. If a settle agreement is not reached, the City shall make a written Final Determination within 10 Working Days after the Settlement Meeting.
2. If you disagree with the City's Final Determination, notify the Engineer in writing of your objection within 15 Working Days after receipt of the written determination and file a "Request for Mediation" in accordance with 3-5.2, "Dispute Resolution Process".
3. Failure to give notice of objection within the 15 Working Days period shall waive your right to pursue the Claim.

3-5.1.8 Mandatory Assistance.

1. If a third party dispute, litigation, or both arises out of or relates in any way to the Services provided under the Contract, upon the City's request, you shall agree to assist in resolving the dispute or litigation. Your assistance includes, but is not limited to the following:
 - a) Providing professional consultations.
 - b) Attending mediations, arbitrations, depositions, trials, or any event related to the dispute resolution and litigation.

3-5.1.8.1 Compensation for Mandatory Assistance.

1. The City will reimburse you for reasonable fees and expenses incurred by you for any required assistance rendered in accordance with 3-5.1.8, "Mandatory Assistance" as Extra Work.
2. The Engineer will determine whether these fees and expenses were necessary due to your conduct or failure to act.
3. If the Engineer determines that the basis of the dispute or litigation in which these fees and expenses were incurred were the result of your conduct or your failure to act in part or in whole, you shall reimburse the City for any payments made for these fees and expenses.
4. Reimbursement may be through any legal means necessary, including the City's withholding of your payment.

3-5.2.3 Selection of Mediator. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. A single mediator, knowledgeable in construction aspects and acceptable to both parties, shall be used to mediate the dispute.

2. To initiate mediation, the initiating party shall serve a Request for Mediation at the American Arbitration Association (AAA) on the opposing party.
3. If AAA is used, the initiating party shall concurrently file with AAA a "Request for Mediation" along with the appropriate fees, a copy of requested mediators marked in preference order, and a preference for available dates.
4. If AAA is selected to coordinate the mediation (Administrator), within 10 Working Days from the receipt of the initiating party's Request for Mediation, the opposing party shall file the following:
 - a) A copy of the list of the preferred mediators listed in preference order after striking any mediators to which they have any objection.
 - b) A preference for available dates.
 - c) Appropriate fees.
5. If the parties cannot agree on a mediator, then each party shall select a mediator and those mediators shall select the neutral third party to mediate the matter.

3-5.3 Forum of Litigation. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. It is the express intention that all legal actions and proceedings related to the Contract or Agreement with the City or to any rights or any relationship between the parties arising therefrom shall be solely and exclusively initiated and maintained in courts of the State of California for the County of San Diego.

SECTION 4 - CONTROL OF MATERIALS

4-1.3.1 General. To the "WHITEBOOK", ADD the following:

1. Steel pipe in sizes larger than 18 inches shall require inspection at the source of production.
2. City lab staff or a qualified inspection agency approved by the Engineer shall witness all welding, lining, coating, and testing. You shall incur additional inspection costs outlined in 4-1.3.3, "Inspection of Items Not Locally Produced".
3. All parts of production (including but not limited to product fabrication, welding, testing, lining, and coating of straight pieces and specials) shall be performed or produced in the United States.
4. Welding and all testing shall be performed by certified welders and testing staff with credentials traceable in the United States.

4-1.3.2 Inspection by the Agency. To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. The City will provide inspection and testing laboratory services within the continental United States within a 200-mile radius of the geographical limits of the City.

4-1.3.3 Inspection of Items Not Locally Produced. To the "WHITEBOOK", DELETE in its entirety.

ADD:

4-1.3.3 Inspection of Items Not Locally Produced. To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. When you intend to purchase materials, fabricated products, or equipment from sources located more than 200 miles (321.9 km) outside the geographical limits of the City, City Lab staff or a qualified inspection agency approved by the Engineer, shall be engaged at your expense to inspect the materials, equipment, or process.
2. This approval shall be obtained before producing any material or equipment. City Lab staff or inspector shall evaluate the materials for conformance with the requirements of the Plans and Specifications. You shall forward reports required by the Engineer. No materials or equipment shall be shipped nor shall any processing, fabrication or treatment of such materials be done without proper inspection by City Lab staff or the approved agent. Approval by said agent shall not relieve you of responsibility for complying with the requirements of the Contract Documents.
3. The Engineer may elect City Lab staff to perform inspection of an out-of-town manufacturer. You shall incur additional inspection costs of the Engineer including lodging, meals, and incidental expenses based on Federal Per Diem Rates, along with travel and car rental expenses. If the manufacturing plant operates a double shift, a double shift shall be figured in the inspection costs.
 - a) At the option of the Engineer, full time inspection shall continue for the length of the manufacturing period. If the manufacturing period will exceed 3 consecutive weeks, you shall incur additional inspection expenses of the Engineer's supervisor for a trip of 2 Days to the site per month.
 - b) When the Engineer elects City Lab staff to perform out-of-town inspections, the wages of staff employed by the City shall not be part of the additional inspection expenses paid by you.
 - c) Federal Per Diem Rates can be determined at the location below:

<https://www.gsa.gov/portal/content/104877>

4-1.3.6 Preapproved Materials. To the “WHITEBOOK”, ADD the following:

3. You shall submit in writing a list of all products to be incorporated in the Work that are on the AML.

4-1.6 Trade Names or Equals. To the “WHITEBOOK”, ADD the following:

12. You shall submit your list of proposed substitutions for an “equal” item **no less than 15 Working Days prior to the Proposal due date** and on the City’s Product Submittal Form available at:

<http://www.sandiego.gov/publicworks/edocref/index.shtml>

SECTION 5 – UTILITIES

5-2 PROTECTION. To the “WHITEBOOK”, item 2, ADD the following:

- g) Refer to **Appendix G** for more information on the protection of AMI devices

5-6 COOPERATION. To the “GREENBOOK”, ADD the following:

1. Notify SDG&E at least **10 Working Days** prior to excavating within 10 feet of SDG&E Underground High Voltage Transmission Power Lines (69 KV and higher).
2. Notify MTS prior to excavating on the corner of Imperial Ave and 65th St.

Contact:

Richard Rose
Right-of-Way Engineer – Land Management
San Diego Metropolitan Transit System (MTS)
1255 Imperial Ave., Ste. 1000
San Diego, CA 92101
Richard.Rose@sdmts.com
Office: 619-446-4911

SECTION 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK

To the “WHITEBOOK”, item 22, subsection b, DELETE in its entirety and SUBSTITUTE with the following:

- b) A curve value percentage comparison between the Contract Price and the updated cash flow forecast for each Project ID included in the Contract Documents. Curve values shall be set on a scale from 0% to 100% in intervals of 5% of the Contract Time. Refer to the Sample City Invoice materials in the Contract Documents and use the format shown. Your invoice amounts shall be supported by this curve value percentage. For previous periods, use the actual values and percentages and update the curve value percentages accordingly.

6-2.1 Moratoriums. To the "WHITEBOOK", ADD the following:

3. Do not Work in the areas where there is currently a moratorium issued by the City. The areas subject to moratorium are listed in the Design-Build, MAC contract, or as provided here:
 - a) FY13 SS-014010 AC Overlay Group 3; Imperial AV from 60st ST to 61st ST from 12/09/2013 to 12/09/2018 (inclusive).
 - b) FY13 SS-014009 AC Overlay Group 1; Imperial AV from 61st ST to 62nd ST; 07/09/2013 to 07/09/2018 (inclusive).
 - c) SS-005037 Slurry Seal Group 1602; Brooklyn AV from Stork ST to Otay ST; from 07/09/2013 to 07/09/2020 (inclusive).
 - d) SS-029109 Slurry Seal Group 1702; Wunderlyn AV from 63rd ST to dead end; 06/30/2017 to 06/30/20 (inclusive).

ADD:

6-3.2.1.1 Environmental Document.

1. The City of San Diego Development Services Department has prepared a **Notice of Exemption (NOE) for AC Water & Sewer Group 1024**, as referenced in the Contract Appendix. You shall comply with all requirements of the **NOE** as set forth in **Appendix A**.
2. Compliance with the City's environmental document shall be included in the Contract Price.

6-7.1 General. To the "WHITEBOOK", item 3, ADD the following:

- d) 30 Days for full depth asphalt final mill and resurfacing work required per SDG-107.
- e) Where shutdowns of 16 inch and larger pipes are required, there is a shutdown moratorium from May until October. Plan and schedule Work accordingly. No additional payment or Working Days will be granted for delays due to the moratorium.

6-8.3 Warranty. To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. Warranty and repair all defective materials and workmanship for a period of 1 year. This call back warranty period shall start on the date that the Work was accepted by the City. Additionally, you shall warranty the Work against all latent and patent defects for a period of 10 years.

SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR

7-3 **INSURANCE.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

7-3 **INSURANCE.**

1. The insurance provisions herein shall not be construed to limit your indemnity obligations contained in the Contract.

7-3.1 **Policies and Procedures.**

1. You shall procure the insurance described below, at its sole cost and expense, to provide coverage against claims for loss including injuries to persons or damage to property, which may arise out of or in connection with the performance of the Work by you, your agents, representatives, officers, employees or Subcontractors.
2. Insurance coverage for property damage resulting from your operations is on a replacement cost valuation. The market value will not be accepted.
3. You shall maintain this insurance for the duration of this Contract and at all times thereafter when you are correcting, removing, or replacing Work in accordance with this Contract. Your liabilities under the Contract, e.g., your indemnity obligations, is not deemed limited to the insurance coverage required by this Contract.
4. The payment for insurance shall be included in the Contract Price as bid by you. Except as specifically agreed to by the City in writing, you are not entitled to any additional payment. Do not begin any Work under this Contract until you have provided and the City has approved all required insurance.
5. Policies of insurance shall provide that the City is entitled to 30 Days (10 Days for cancellation due to non-payment of premium) prior written notice of cancellation or non-renewal of the policy. Maintenance of specified insurance coverage is a material element of the Contract. Your failure to maintain or renew coverage or to provide evidence of renewal during the term of the Contract may be treated by the City as a material breach of the Contract.

7-3.2 **Types of Insurance.**

7-3.2.1 **Commercial General Liability Insurance.**

1. Commercial General Liability Insurance shall be written on the current version of the ISO Occurrence form CG 00 01 07 98 or an equivalent form providing coverage at least as broad.
2. The policy shall cover liability arising from premises and operations, XCU (explosions, underground, and collapse), independent contractors, products/completed operations, personal injury and advertising injury, bodily

injury, property damage, and liability assumed under an insured's contract (including the tort liability of another assumed in a business contract).

3. There shall be no endorsement or modification limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. You shall maintain the same or equivalent insurance for at least 10 years following completion of the Work.
4. All costs of defense shall be outside the policy limits. Policy coverage shall be in liability limits of not less than the following:

<u>General Annual Aggregate Limit</u>	<u>Limits of Liability</u>
Other than Products/Completed Operations	\$2,000,000
Products/Completed Operations Aggregate Limit	\$2,000,000
Personal Injury Limit	\$1,000,000
Each Occurrence	\$1,000,000

7-3.2.2 Commercial Automobile Liability Insurance.

1. You shall provide a policy or policies of Commercial Automobile Liability Insurance written on the current version of the ISO form CA 00 01 12 90 or later version or equivalent form providing coverage at least as broad in the amount of \$1,000,000 combined single limit per accident, covering bodily injury and property damage for owned, non-owned, and hired automobiles ("Any Auto").
2. All costs of defense shall be outside the limits of the policy.

7-3.2.3 Contractors Pollution Liability Insurance.

1. You shall procure and maintain at your expense or require your Subcontractor, as described below, to procure and maintain the Contractors Pollution Liability Insurance including contractual liability coverage to cover liability arising out of cleanup, removal, storage, or handling of hazardous or toxic chemicals, materials, substances, or any other pollutants by you or any Subcontractor in an amount not less than \$2,000,000 limit for bodily injury and property damage.
2. All costs of defense shall be outside the limits of the policy. Any such insurance provided by your Subcontractor instead of you shall be approved separately in writing by the City.
3. For approval of a substitution of your Subcontractor's insurance, you shall certify that all activities for which the Contractors Pollution Liability Insurance will provide coverage will be performed exclusively by the Subcontractor providing the insurance. The deductible shall not exceed \$25,000 per claim.

4. Contractual liability shall include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. There shall be no endorsement or modification of the coverage limiting the scope of coverage for either “insured vs. insured” claims or contractual liability.
5. Occurrence based policies shall be procured before the Work commences and shall be maintained for the Contract Time. Claims Made policies shall be procured before the Work commences, shall be maintained for the Contract Time, and shall include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies that shall continue to be maintained for 12 months after the completion of the Work without advancing the retroactive date.
6. Except as provided for under California law, the policy or policies shall provide that the City is entitled to 30 Days prior written notice (10 Days for cancellation due to non-payment of premium) of cancellation or non-renewal of the policy or policies.

7-3.2.4

Contractors Hazardous Transporters Pollution Liability Insurance.

1. You shall provide at your expense or require your Subcontractor to provide, as described below, Contractors Hazardous Transporters Pollution Liability Insurance including contractual liability coverage to cover liability arising out of transportation of hazardous or toxic, materials, substances, or any other pollutants by you or any Subcontractor in an amount not less than \$2,000,000 limit per occurrence/aggregate for bodily injury and property damage.
2. All costs of defense shall be outside the limits of the policy. The deductible shall not exceed \$25,000 per claim. Any such insurance provided by a subcontractor instead of you shall be approved separately in writing by the City.
3. For approval of the substitution of Subcontractor’s insurance the Contractor shall certify that all activities for which Contractors Hazardous Transporters Pollution Liability Insurance will provide coverage will be performed exclusively by the Subcontractor providing the insurance.
4. Contractual liability shall include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. There shall be no endorsement or modification of the coverage limiting the scope of coverage for either “insured vs. insured” claims or contractual liability. Occurrence based policies shall be procured before the Work commences and shall be maintained for the duration of this Contract. Claims Made policies shall be procured before the Work commences, shall be maintained for the duration of this contract, and shall include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies that shall continue to be maintained for 12 months after the completion of the Work under this Contract without advancing the retroactive date.

5. Except as provided for under California law, the policy or policies shall provide that the City is entitled to 30 Days prior written notice (10 Days for cancellation due to non-payment of premium) of cancellation or non-renewal of the policy or policies.

7-3.2.6 Railroad Protective Liability Insurance. Exclusions relating to performance of operations within the vicinity of any railroad, bridge, trestle, roadbed, tunnel, underpass, or cross shall be deleted from all policies to which they may apply. Alternatively, you may provide separate Railroad Protective Liability insurance providing coverage, including endorsements, equivalent to that required for the CGL described herein.

7-3.3 Rating Requirements. Except for the State Compensation Insurance Fund, all insurance required by this Contract as described herein shall be carried only by responsible insurance companies with a rating of, or equivalent to, at least "A-, VI" by A.M. Best Company, that are authorized by the California Insurance Commissioner to do business in the State, and that have been approved by the City.

7-3.3.1 Non-Admitted Carriers. The City will accept insurance provided by non-admitted, "surplus lines" carriers only if the carrier is authorized to do business in the State and is included on the List of Approved Surplus Lines Insurers (LASLI list).

All policies of insurance carried by non-admitted carriers shall be subject to all of the requirements for policies of insurance provided by admitted carriers described herein.

7-3.4 Evidence of Insurance. Furnish to the City documents e.g., certificates of insurance and endorsements evidencing the insurance required herein, and furnish renewal documentation prior to expiration of this insurance. Each required document shall be signed by the insurer or a person authorized by the insurer to bind coverage on its behalf. We reserve the right to require complete, certified copies of all insurance policies required herein.

7-3.5 Policy Endorsements.

7-3.5.1 Commercial General Liability Insurance.

7-3.5.1.1 Additional Insured.

1. You shall provide at your expense policy endorsement written on the current version of the ISO Occurrence form CG 20 10 11 85 or an equivalent form providing coverage at least as broad.
2. To the fullest extent allowed by law e.g., California Insurance Code §11580.04, the policy shall be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured.
3. The additional insured coverage for projects for which the Engineer's Estimate is \$1,000,000 or more shall include liability arising out of:
 - a) Ongoing operations performed by you or on your behalf,

- b) your products,
 - c) your Work, e.g., your completed operations performed by you or on your behalf, or
 - d) premises owned, leased, controlled, or used by you.
4. The additional insured coverage for projects for which the Engineer's Estimate is less than \$1,000,000 shall include liability arising out of:
- a) Ongoing operations performed by you or on your behalf,
 - b) your products, or
 - c) premises owned, leased, controlled, or used by you.

7-3.5.1.2 Primary and Non-Contributory Coverage. The policy shall be endorsed to provide that the coverage with respect to operations, including the completed operations, if appropriate, of the Named Insured is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives. Further, it shall provide that any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

7-3.5.1.3 Project General Aggregate Limit. The policy or policies shall be endorsed to provide a Designated Construction Project General Aggregate Limit that will apply only to the Work. Only claims payments which arise from the Work shall reduce the Designated Construction Project General Aggregate Limit. The Designated Construction Project General Aggregate Limit shall be in addition to the aggregate limit provided for the products-completed operations hazard.

7-3.5.2 Commercial Automobile Liability Insurance.

7-3.5.2.1 Additional Insured. Unless the policy or policies of Commercial Auto Liability Insurance are written on an ISO form CA 00 01 12 90 or a later version of this form or equivalent form providing coverage at least as broad, the policy shall be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured, with respect to liability arising out of automobiles owned, leased, hired or borrowed by you or on your behalf. This endorsement is limited to the obligations permitted by California Insurance Code §11580.04.

7-3.5.3 Contractors Pollution Liability Insurance Endorsements.

7-3.5.3.1 Additional Insured.

1. The policy or policies shall be endorsed to include as an Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to liability arising out of:
 - a) Ongoing operations performed by you or on your behalf,

- b) your products,
- c) your work, e.g., your completed operations performed by you or on your behalf, or
- d) premises owned, leased, controlled, or used by you.

Except that in connection with, collateral to, or affecting any construction contract to which the provisions of subdivision (b) of § 2782 of the California Civil Code apply, this endorsement shall not provide any duty of indemnity coverage for the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives in any case where an agreement to indemnify the City and its respective elected officials, officers, employees, agents, and representatives would be invalid under subdivision (b) of §2782 of the California Civil Code.

2. In any case where a claim or loss encompasses the negligence of the Insured and the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives that are not covered because of California Insurance Code §11580.04, the insurer's obligation to the City and its respective elected officials, officers, employees, agents, and representatives shall be limited to obligations permitted by California Insurance Code §11580.04.

7-3.5.3.2 Primary and Non-Contributory Coverage. The policy or policies shall be endorsed to provide that the insurance afforded by the Contractors Pollution Liability Insurance policy or policies is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives with respect to operations including the completed operations of the Named Insured. Any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

7-3.5.3.3 Severability of Interest. For Contractors Pollution Liability Insurance, the policy or policies shall provide that your insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability and shall provide cross-liability coverage.

7-3.5.4 Contractors Hazardous Transporters Pollution Liability Insurance Endorsements.

7-3.5.4.1 Additional Insured.

1. The policy or policies shall be endorsed to include as an Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to liability arising out of:
 - a) Ongoing operations performed by you or on your behalf,
 - b) your products,

- c) your work, e.g., your completed operations performed by you or on your behalf, or
- d) premises owned, leased, controlled, or used by you.

Except that in connection with, collateral to, or affecting any construction contract to which the provisions of subdivision (b) of §2782 of the California Civil Code apply, this endorsement shall not provide any duty of indemnity coverage for the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives in any case where an agreement to indemnify the City and its respective elected officials, officers, employees, agents, and representatives would be invalid under subdivision (b) of §2782 of the California Civil Code.

- 2. In any case where a claim or loss encompasses the negligence of the Insured and the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives that are not covered because of California Insurance Code §11580.04, the insurer's obligation to the City and its respective elected officials, officers, employees, agents, and representatives shall be limited to obligations permitted by California Insurance Code §11580.04.

7-3.5.4.2 Primary and Non-Contributory Coverage. The policy or policies shall be endorsed to provide that the insurance afforded by the Contractors Pollution Liability Insurance policy or policies is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives with respect to operations including the completed operations of the Named Insured. Any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

7-3.5.4.3 Severability of Interest. For Contractors Hazardous Transporters Pollution Liability Insurance, the policy or policies shall provide that your insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability and shall provide cross-liability coverage.

7-3.6 Deductibles and Self-Insured Retentions. You shall pay for all deductibles and self-insured retentions. You shall disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided.

7-3.7 Reservation of Rights. The City reserves the right, from time to time, to review your insurance coverage, limits, deductibles and self-insured retentions to determine if they are acceptable to the City. The City will reimburse you, without overhead, profit, or any other markup, for the cost of additional premium for any coverage requested by the Engineer but not required by this Contract.

7-3.8 Notice of Changes to Insurance. You shall notify the City 30 Days prior to any material change to the policies of insurance provided under this Contract.

7-3.9 Excess Insurance. Policies providing excess coverage shall follow the form of the primary policy or policies e.g., all endorsements.

7-3.10 Architects and Engineers Professional Insurance (Errors and Omissions Insurance).

1. For Contracts with required engineering services (e.g., Design-Build, preparation of engineered Traffic Control Plans (TCP), and etc.) by you, you shall keep or require all of your employees or Subcontractors, who provide professional engineering services under this contract, Professional Liability coverage with a limit of **\$1,000,000** per claim and **\$2,000,000** annual aggregate in full force and effect.
2. You shall ensure the following:
 - a) The policy retroactive date is on or before the date of commencement of the Project.
 - b) The policy will be maintained in force for a period of 3 years after completion of the Project or termination of this Contract, whichever occurs last. You agree that for the time period specified above, there will be no changes or endorsements to the policy that affect the specified coverage.
3. If professional engineering services are to be provided solely by the Subcontractor, you shall:
 - a) Certify this to the City in writing and
 - b) Agree in writing to require the Subcontractor to procure Professional Liability coverage in accordance with the requirements set forth above.

7-4 NOT USED. To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

7-4 WORKERS' COMPENSATION INSURANCE AND EMPLOYERS LIABILITY INSURANCE.

1. In accordance with the provisions of §3700 of the California Labor Code, you shall provide at your expense Workers' Compensation Insurance and Employers Liability Insurance to protect you against all claims under applicable state workers compensation laws. The City, its elected officials, and employees will not be responsible for any claims in law or equity occasioned by your failure to comply with the requirements of this section.

2. Limits for this insurance shall be not less than the following:

<u>Workers' Compensation</u>	<u>Statutory Employers Liability</u>
Bodily Injury by Accident	\$1,000,000 each accident
Bodily Injury by Disease	\$1,000,000 each employee
Bodily Injury by Disease	\$1,000,000 policy limit

3. By signing and returning the Contract you certify that you are aware of the provisions of §3700 of the Labor Code which requires every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code and you shall comply with such provisions before commencing the Work as required by §1861 of the California Labor Code.

7-4.1 Waiver of Subrogation. The policy or policies shall be endorsed to provide that the insurer will waive all rights of subrogation against the City and its respective elected officials, officers, employees, agents, and representatives for losses paid under the terms of the policy or policies and which arise from Work performed by the Named Insured for the City.

**ADD:
7-6**

THE CONTRACTORS REPRESENTATIVE. To the "GREENBOOK", ADD the following:

1. Both the representative and alternative representative shall be employees of the Contractor and shall not be assigned to a Subcontractor unless otherwise approved by the City in writing.

7-8.6 Water Pollution Control. To the "WHITEBOOK", ADD the following:

11. Based on a preliminary assessment by the City, this Contract is subject to **WPCP**.

7-8.6.5.1 Payment. To the "WHITEBOOK", DELETE in its entirety.

**ADD:
7-8.6.5.1**

Chlorination Discharge Requirements.

1. If prior approval is obtained to discharge to the sewer system, you shall discharge the chlorinated water used for testing and acceptance of new water mains to the sewer system in accordance with the Contract Documents after de-chlorination as shown on the "Chlorination Discharge Locations" Plans. You shall submit to the Engineer a "Request for Batch Discharge Authorization to Discharge Potable Pipe Flushing Water to Sewer" form. The request form is found on the City website at the following location:

https://www.sandiego.gov/sites/default/files/batch_discharge_authorization_request_1.pdf
2. When discharging to the sewer system has been approved, you shall use a totalizer flow meter to record the total volume discharged to sewer and shall submit to the Engineer a log of actual discharged water quantities, dates, and

locations. Failure to report this information to the Engineer is a violation of the authorization for discharge to the sanitary sewer. Within five (5) Working Days of the discharge, the Engineer shall report actual total flows to the sanitary sewer to the Public Utilities Department (PUD), Industrial Wastewater Control Program (IWCP).

3. If the discharge to the sewer system is not approved, you shall discharge the chlorinated water used for the testing of new mains to surface waters, storm drain inlets, or to other approved sources and you shall comply with 7-8.6.5, "Hydrostatic Discharge Requirements". All discharge activities related to the project shall comply with the State Water Resources Control Board, ORDER WQ 2014-0194-DWQ, STATEWIDE GENERAL NPDES PERMIT FOR DRINKING WATER SYSTEMS DISCHARGES as referenced by:

http://www.waterboards.ca.gov/water_issues/programs/npdes/docs/drinkingwater/final_statewide_wqo2014_0194_dwq.pdf

All testing shall be conducted by a QSP.

ADD:

7-20

ELECTRONIC COMMUNICATION. To the "WHITEBOOK", ADD the following:

2. Virtual Project Manager shall be used on this Contract.

7-21.1

GENERAL. To the "WHITEBOOK", item 3, DELETE in its entirety and SUBSTITUTE with the following:

3. During the construction phase of projects, the minimum waste management reduction goal is 90% of the inert material (a material not subject to decomposition such as concrete, asphalt, brick, rock, block, dirt, metal, glass, and etc.) and 65% of the remaining project waste. You shall provide appropriate documentation, including a Waste Management Form attached as an appendix, and evidence of recycling and reuse of materials to meet the waste reduction goals specified.

SECTION 9 - MEASUREMENT AND PAYMENT

9-3.2

Partial and Final Payment. To the "GREENBOOK", Paragraph (3), DELETE in its entirety and SUBSTITUTE with the following:

Upon commencement of the Work, an escrow account shall be established in a financial institution chosen by you and approved by the City. Documentation for an escrow payment shall have an escrow agreement signed by you, the City, and the escrow agent. From each progress payment, no less than 5% will be deducted and deposited by the City into the escrow account. Upon completion of the Contract, the City will notify the Escrow agent in writing to release the funds to you. Only the designated representative of the City shall sign the request for the release of Escrow funds.

**ADD:
9-3.7**

Compensation Adjustments for Price Index Fluctuations. To the "WHITEBOOK" ADD the following:

5. This Contract **is not** subject to the provisions of The "WHITEBOOK" for Compensation Adjustments for Price Index Fluctuations for paving asphalt.

SECTION 10 – GREEN BUILDINGS AND STORM WATER MANAGEMENT

**ADD:
10-3**

STORM WATER MANAGEMENT DISCHARGE CONTROL.

1. You shall comply with Chapter 4, Article 3, Division 3 of the San Diego Municipal Code, Storm Water Management and Discharge Control, Municipal Storm Water Permit (MS4), California Regional Water Quality Control Board Order No. R9-2013-0001 (amended by R9-2015-0001 and R9-2015-0100), Storm Water Standards Manual, as amended from time to time, and any and all Best Management Practice (BMP) guidelines and pollution elimination requirements as may be established by the Enforcement Official. You warrant and certify that any and all Plans, reports, and specifications prepared for the City in accordance with this agreement shall meet all requirements of the San Diego Municipal Code and Storm Water Standards Manual. You understand that while the City will be reviewing your designs for storm water permit compliance prior to acceptance of Design-Builder's designs, you shall also understand and agree that the City's Storm Water review process and its acceptance of your designs in no way limits the your obligations under this agreement to prepare designs that comply with all requirements of the San Diego Municipal Code and MS4 Permit.
2. You shall complete and update the Storm Water Applicability Checklist (DS-560) to confirm the project's appropriate storm water requirements. For all applicable projects, and to the maximum extent practicable, you shall incorporate and include Source Control and Low Impact Development (LID) design features or Site Design BMPs on the construction plans. Additionally, for Priority Development projects, you shall prepare a Storm Water Quality Management Plan (SWQMP) in accordance with the requirements of the Storm Water Standards Manual. You shall prepare a SWQMP Drainage Management Area Map showing all LID site design, source control and treatment control BMPs, hydromodification management plan facilities, and tabulated calculations. Include sufficient details and cross sections for construction. The Drainage Management Area Map shall be included as part of the construction Plans in addition to the Storm Water Infrastructure cover sheet. A template of the Storm Water Infrastructure cover sheet will be provided by the City.
3. You shall attend the Pre-construction meeting. If applicable, you shall inspect and confirm that the permanent BMP was installed in accordance with the details on the Plans and that the permanent BMP functions meet the requirements of the MS4 Permit. Upon notification by the Engineer, the Design-Builder Engineer of Work shall sign and stamp the Permanent BMP Self Certification on the Plans or the Permanent BMP Self Certification Form (DS-563) prior to final acceptance by the City.

4. For projects requiring soil-disturbance Work such as geotechnical borings, street coring, and potholing as component of the design, you shall complete a Minor Water Pollution Control Plan (DS-570), if applicable.

SECTION 203 – BITUMINOUS MATERIALS

203-3.4.4 Rubber Polymer Modified Slurry (RPMS). To the “WHITEBOOK”, ADD the following:

1. RPMS shall be used on this Contract.

SECTION 209 – PRESSURE PIPE

209 PRESSURE PIPE. To the “WHITEBOOK”, ADD the following:

2. PVC products, specifically type C900 and C905, as manufactured or distributed by J-M Manufacturing Company or JM Eagle shall not be used on the Contract for pressurized pipe.

SECTION 217 – BEDDING AND BACKFILL MATERIALS

217-2.2 Stones, Boulders, and Broken Concrete. To the “GREENBOOK”, Table 217-2.2, DELETE in its entirety and SUBSTITUTE with the following:

TABLE 217-2.2

Zone	Zone Limits	Maximum Size (greatest dimension)	Backfill Requirements in Addition to 217-2.1
Street or Surface Zone	From ground surface to 12” (300 mm) below pavement subgrade or ground surface	2.5” (63 mm)	As required by the Plans or Special Provisions.
Street or Surface Zone Backfill of Tunnels beneath Concrete Flatwork		Sand	Sand equivalent of not less than 30.
Trench Zone	From 12” (300 mm) below pavement subgrade or ground surface to 12” (300 mm) above top of pipe or box	6” (150 mm)	
Deep Trench Zone (Trenches 3’ (0.9 m) wide or wider)	From 60” (1.5 m) below finished surface to 12” (300 mm) above top of pipe or box	Rocks up to 12” (300 mm) excavated from trench may be placed as backfill	
Pipe Zone	From 12” (300 mm) above top of pipe or box to 6” (150 mm) below bottom of pipe or box exterior	2.5” (63 mm)	Sand equivalent of not less than 30 or a coefficient of permeability greater than 1-½ inches/hour (35 mm per hour).
Overexcavation	Backfill more than 6” (150 mm) below bottom of pipe or box exterior	6” (150 mm)	Sand equivalent of not less than 30 or a coefficient of permeability greater than 1-½ inches/hour (35 mm per hour). Trench backfill slurry (100-E-100) per 201-1 may also be used.

SECTION 302 – ROADWAY SURFACING

ADD:

302-4.12.2.1.1 Slurry Treatment.

1. When slurry treatment is required by the Contract Documents, notify the Engineer at least 10 Working Days prior to the first application of slurry. The Engineer, upon assessment of street condition and classification, will verify the slurry type to be applied.
2. Application of sequential layers of slurry shall not commence until approved by the Engineer and until the following have been completed:
 - a) Mix design and wet track abrasion testing for the first-step slurry application has been approved by the Engineer. Unless otherwise directed by the Engineer, this testing may require 4 Working Days from field sampling to reporting of test results to the Engineer.
 - b) Corrective actions have been executed in accordance with 302-4.11.1.2, "Reduction in Payment Based on WTAT" such as reductions in payment, non-payment, or removal of material not meeting specifications, as directed by the Engineer.

302-7.4 Payment. To the "WHITEBOOK", item 1, last sentence, DELETE in its entirety and SUBSTITUTE with the following:

Payment shall not be made for additional fabric for overlapped areas.

SECTION 304 – METAL FABRICATION AND CONSTRUCTION

304-5 PAYMENT. To the "WHITEBOOK", REVISE section "304-5" to "304-6".

SECTION 306 – OPEN TRENCH CONDUIT CONSTRUCTION

306-1 GENERAL. To the "GREENBOOK", ADD the following:

Build the Project in accordance with the water high-lining phasing as determined during the design.

When installing pipelines within the City's streets, for the following streets, the total time allowed for the completion of Work shall not exceed 10 Working Days per 500' of pipeline installation as determined during the design.

306-7.8.2.1 General. To the "WHITEBOOK", item 2, ADD the following:

- a) Specified test pressure for Class 235 pipe shall be 150 psi.
- b) Specified test pressure for Class 305 pipe shall be 200 psi.

SECTION 600 - ACCESS

**ADD:
600-1**

GENERAL. To the "WHITEBOOK", item 5, DELETE in its entirety and SUBSTITUTE with the following:

5. If the City's crews are unable to provide the citizens with the mandated services due to your failure to comply with these specifications, you shall collect trash, recyclables, and yard waste on the City's schedule and deliver to the City's designated locations. If you fail to perform this Work, you shall incur additional costs for the City to reschedule pick up of an area.

SECTION 700 - MATERIALS

700-9.1 Pedestrian Barricade. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Pedestrian barricades shall be constructed in accordance with the City of San Diego Standard Drawing SDE-103, "Pedestrian Barricade".
2. Curb ramp barricades shall be constructed in accordance with the City of San Diego Standard Drawing SDG-140, "Curb Ramp Barricade".
3. Assembly shall be commercial quality galvanized material.

EQUAL OPPORTUNITY CONTRACTING PROGRAM (EOCP) SECTION A - GENERAL REQUIREMENTS

4.1 Nondiscrimination in Contracting Ordinance. To the "WHITEBOOK", subsection 4.1.1, paragraph (2), sentence (1), DELETE in its entirety and SUBSTITUTE with the following:

You shall not discriminate on the basis of race, gender, gender expression, gender identity, religion, national origin, ethnicity, sexual orientation, age, or disability in the solicitation, selection, hiring, or treatment of subcontractors, vendors, or suppliers.

END OF SUPPLEMENTARY SPECIAL PROVISIONS (SSP)

APPENDIX A
NOTICE OF EXEMPTION

NOTICE OF EXEMPTION

(Check one or both)

TO: X RECORDER/COUNTY CLERK
P.O. Box 1750, MS A-33
1600 PACIFIC HWY, ROOM 260
SAN DIEGO, CA 92101-2422

FROM: CITY OF SAN DIEGO
PUBLIC WORKS DEPARTMENT
525 B STREET, SUITE 750, MS 908A
SAN DIEGO, CA 92101

 OFFICE OF PLANNING AND RESEARCH
1400 TENTH STREET, ROOM 121
SACRAMENTO, CA 95814

PROJECT/WBS No.: B-16083.02.06, B-16082.02.06

PROJECT TITLE: AC WATER & SEWER GROUP 1024

PROJECT LOCATION-SPECIFIC: The project will occur in the following three locations: 1) Along Dominion Street, S 44th Street, Elizabeth Street, T Street, Logan Avenue, 45th Street, and Stratton Avenue in the Southeastern San Diego Community Planning Area; 2) along Wunderlin Avenue, Brooklyn Avenue, Madera Street, 66th Street, Otay Street, 65th Street, Imperial Avenue, 61st Street, 63rd Street, Madrone Avenue, Shaules Avenue, and Sullivan Avenue, in the Encanto Community Planning Area; 3) along Braddock Street, Braddock Place, Brennan Street, Koe Street, Dodie Street, and Helm Street, in the Skyline-Paradise Hills Community Planning Area; (Council Districts 4, and 9).

PROJECT LOCATION-CITY/COUNTY: San Diego/San Diego

DESCRIPTION OF NATURE, PURPOSE, AND BENEFICIARIES OF PROJECT: This project will construct a total of approximately 28,142 linear feet (LF) (5.33 miles) of water main. Of that linear footage, 26,570 (5.03 miles) of existing 4-inch, 6-inch, 8-inch and 12-inch prioritized AC water mains will be replaced in-place with 8-inch or 12-inch PVC water mains; approximately 50 LF (0.01 miles) of new 8-inch PVC water main will be installed; and 1,522 LF (0.29 miles) of new parallel 8-inch PVC water main will be installed. The installation of new water main will require excavation of new trenches of approximately 5 feet in depth.

This project will construct a total of approximately 4,170 LF (0.79 miles) of sewer main. Of that linear footage, approximately 2,246 LF (0.42 miles) of existing 6-inch vitrified clay pipe (VCP) and approximately 560 LF (0.11 miles) of existing 8-inch VCP will be replaced-in-place with 8-inch PVC sewer mains. Approximately 1,364 LF (0.26 miles) of new 8-inch PVC sewer mains will be installed to receive sewer flow from homes which will be re-plumbed toward Logan Avenue rather than from their back yards. Installation of new sewer mains will require excavation of new trenches up to 10 feet deep. The project will abandon approximately 463 LF of water main and 551 LF of sewer main.

NAME OF PUBLIC AGENCY APPROVING PROJECT: City of San Diego

NAME OF PERSON OR AGENCY CARRYING OUT PROJECT: City of San Diego Public Works Department,
Contact: Natalie de Freitas; Ph: (619) 533-4603
525 B Street, Suite 750, San Diego, CA 92101

EXEMPT STATUS: (CHECK ONE)

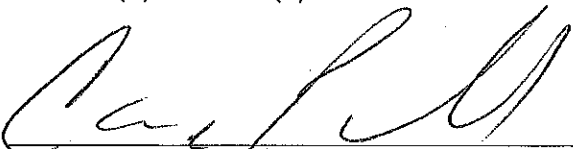
- MINISTERIAL (SEC. 21080(b)(1); 15268);
- DECLARED EMERGENCY (SEC. 21080(b)(3); 15269(a));
- EMERGENCY PROJECT (SEC. 21080(b)(4); 15269 (b)(c))
- CATEGORICAL EXEMPTION: 15302 [Existing Facilities], 15303 [New Construction], and 15304 [Minor Alterations to Land]
- STATUTORY EXEMPTIONS:

REASONS WHY PROJECT IS EXEMPT: The City of San Diego conducted an environmental review and determined the project meets the categorical exemption criteria set forth in the CEQA State Guidelines Sections 15302, which allows for the replacement of existing facilities (i.e. utility systems) where the new facilities are located in the same site as those which are being replaced and will have substantially the same purpose and capacity; 15303, which allows for the construction of limited numbers of new, small facilities, (i.e. pipelines); and 15304, which allows minor public alterations in the condition of land which do not involve removal of healthy, mature, scenic trees, including minor trenching and backfilling where the surface is restored (i.e. trenching for conduit and street resurfacing); and when the project does not trigger any of the exceptions to categorical exemptions found in State CEQA Guidelines, Section 15300.2. This project would not impact sensitive resources.

LEAD AGENCY CONTACT PERSON: NATALIE DE FREITAS, SENIOR PLANNER TELEPHONE: (619) 533-4603

IF FILED BY APPLICANT:

1. ATTACH CERTIFIED DOCUMENT OF EXEMPTION FINDING.
2. HAS A NOTICE OF EXEMPTION BEEN FILED BY THE PUBLIC AGENCY APPROVING THE PROJECT?
() YES () NO



CARRIE PURCELL, ASSISTANT DEPUTY DIRECTOR

2/10/17
DATE

CHECK ONE:

- (X) SIGNED BY LEAD AGENCY
() SIGNED BY APPLICANT

DATE RECEIVED FOR FILING AT OPR:

APPENDIX B
FIRE HYDRANT METER PROGRAM

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 1 OF 10	EFFECTIVE DATE October 15, 2002
	SUPERSEDES DI 55.27	DATED April 21, 2000

1. **PURPOSE**

1.1 To establish a Departmental policy and procedure for issuance, proper usage and charges for fire hydrant meters.

2. **AUTHORITY**

2.1 All authorities and references shall be current versions and revisions.

2.2 San Diego Municipal Code (NC) Chapter VI, Article 7, Sections 67.14 and 67.15

2.3 Code of Federal Regulations, Safe Drinking Water Act of 1986

2.4 California Code of Regulations, Titles 17 and 22

2.5 California State Penal Code, Section 498B.0

2.6 State of California Water Code, Section 110, 500-6, and 520-23

2.7 Water Department Director

Reference

2.8 State of California Guidance Manual for Cross Connection Programs

2.9 American Water Works Association Manual M-14, Recommended Practice for Backflow Prevention

2.10 American Water Works Association Standards for Water Meters

2.11 U.S.C. Foundation for Cross Connection Control and Hydraulic Research Manual

3. **DEFINITIONS**

3.1 **Fire Hydrant Meter:** A portable water meter which is connected to a fire hydrant for the purpose of temporary use. (These meters are sometimes referred to as Construction Meters.)

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SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 2 OF 10	EFFECTIVE DATE October 15, 2002
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- 3.2 **Temporary Water Use:** Water provided to the customer for no longer than twelve (12) months.
- 3.3 **Backflow Preventor:** A Reduced Pressure Principal Assembly connected to the outlet side of a Fire Hydrant Meter.

4. **POLICY**

- 4.1 The Water Department shall collect a deposit from every customer requiring a fire hydrant meter and appurtenances prior to providing the meter and appurtenances (see Section 7.1 regarding the Fees and Deposit Schedule). The deposit is refundable upon the termination of use and return of equipment and appurtenances in good working condition.
- 4.2 Fire hydrant meters will have a 2 ½" swivel connection between the meter and fire hydrant. The meter shall not be connected to the 4" port on the hydrant. All Fire Hydrant Meters issued shall have a Reduced Pressure Principle Assembly (RP) as part of the installation. Spanner wrenches are the only tool allowed to turn on water at the fire hydrant.
- 4.3 The use of private hydrant meters on City hydrants is prohibited, with exceptions as noted below. All private fire hydrant meters are to be phased out of the City of San Diego. All customers who wish to continue to use their own fire hydrant meters must adhere to the following conditions:
 - a. Meters shall meet all City specifications and American Water Works Association (AWWA) standards.
 - b. Customers currently using private fire hydrant meters in the City of San Diego water system will be allowed to continue using the meter under the following conditions:
 - 1. The customer must submit a current certificate of accuracy and calibration results for private meters and private backflows annually to the City of San Diego, Water Department, Meter Shop.

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2. The meter must be properly identifiable with a clearly labeled serial number on the body of the fire hydrant meter. The serial number shall be plainly stamped on the register lid and the main casing. Serial numbers shall be visible from the top of the meter casing and the numbers shall be stamped on the top of the inlet casing flange.
3. All meters shall be locked to the fire hydrant by the Water Department, Meter Section (see Section 4.7).
4. All meters shall be read by the Water Department, Meter Section (see Section 4.7).
5. All meters shall be relocated by the Water Department, Meter Section (see Section 4.7).
6. These meters shall be tested on the anniversary of the original test date and proof of testing will be submitted to the Water Department, Meter Shop, on a yearly basis. If not tested, the meter will not be allowed for use in the City of San Diego.
7. All private fire hydrant meters shall have backflow devices attached when installed.
8. The customer must maintain and repair their own private meters and private backflows.
9. The customer must provide current test and calibration results to the Water Department, Meter Shop after any repairs.
10. When private meters are damaged beyond repair, these private meters will be replaced by City owned fire hydrant meters.

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SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 4 OF 10	EFFECTIVE DATE October 15, 2002
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11. When a private meter malfunctions, the customer will be notified and the meter will be removed by the City and returned to the customer for repairs. Testing and calibration results shall be given to the City prior to any re-installation.
 12. The register shall be hermetically sealed straight reading and shall be readable from the inlet side. Registration shall be in hundred cubic feet.
 13. The outlet shall have a 2 ½ “National Standards Tested (NST) fire hydrant male coupling.
 14. Private fire hydrant meters shall not be transferable from one contracting company to another (i.e. if a company goes out of business or is bought out by another company).
- 4.4 All fire hydrant meters and appurtenances shall be installed, relocated and removed by the City of San Diego, Water Department. All City owned fire hydrant meters and appurtenances shall be maintained by the City of San Diego, Water Department, Meter Services.
- 4.5 If any fire hydrant meter is used in violation of this Department Instruction, the violation will be reported to the Code Compliance Section for investigation and appropriate action. Any customer using a fire hydrant meter in violation of the requirements set forth above is subject to fines or penalties pursuant to the Municipal Code, Section 67.15 and Section 67.37.

4.6 Conditions and Processes for Issuance of a Fire Hydrant Meter

Process for Issuance

- a. Fire hydrant meters shall only be used for the following purposes:
 1. Temporary irrigation purposes not to exceed one year.

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2. Construction and maintenance related activities (see Tab 2).
 - b. No customer inside or outside the boundaries of the City of San Diego Water Department shall resell any portion of the water delivered through a fire hydrant by the City of San Diego Water Department.
 - c. The City of San Diego allows for the issuance of a temporary fire hydrant meter for a period not to exceed 12 months (365 days). An extension can only be granted in writing from the Water Department Director for up to 90 additional days. A written request for an extension by the consumer must be submitted at least 30 days prior to the 12 month period ending. No extension shall be granted to any customer with a delinquent account with the Water Department. No further extensions shall be granted.
 - d. Any customer requesting the issuance of a fire hydrant meter shall file an application with the Meter Section. The customer must complete a "Fire Hydrant Meter Application" (Tab 1) which includes the name of the company, the party responsible for payment, Social Security number and/or California ID, requested location of the meter (a detailed map signifying an exact location), local contact person, local phone number, a contractor's license (or a business license), description of specific water use, duration of use at the site and full name and address of the person responsible for payment.
 - e. At the time of the application the customer will pay their fees according to the schedule set forth in the Rate Book of Fees and Charges, located in the City Clerk's Office. All fees must be paid by check, money order or cashiers check, made payable to the City Treasurer. Cash will not be accepted.
 - f. No fire hydrant meters shall be furnished or relocated for any customer with a delinquent account with the Water Department.
 - g. After the fees have been paid and an account has been created, the

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meter shall be installed within 48 hours (by the second business day). For an additional fee, at overtime rates, meters can be installed within 24 hours (within one business day).

4.7 Relocation of Existing Fire Hydrant Meters

- a. The customer shall call the Fire Hydrant Meter Hotline (herein referred to as “Hotline”), a minimum of 24 hours in advance, to request the relocation of a meter. A fee will be charged to the existing account, which must be current before a work order is generated for the meter’s relocation.
- b. The customer will supply in writing the address where the meter is to be relocated (map page, cross street, etc). The customer must update the original Fire Hydrant Meter Application with any changes as it applies to the new location.
- c. Fire hydrant meters shall be read on a monthly basis. While fire hydrant meters and backflow devices are in service, commodity, base fee and damage charges, if applicable, will be billed to the customer on a monthly basis. If the account becomes delinquent, the meter will be removed.

4.8 Disconnection of Fire Hydrant Meter

- a. After ten (10) months a “Notice of Discontinuation of Service” (Tab 3) will be issued to the site and the address of record to notify the customer of the date of discontinuance of service. An extension can only be granted in writing from the Water Department Director for up to 90 additional days (as stated in Section 4.6C) and a copy of the extension shall be forwarded to the Meter Shop Supervisor. If an extension has not been approved, the meter will be removed after twelve (12) months of use.
- b. Upon completion of the project the customer will notify the Meter Services office via the Hotline to request the removal of the fire hydrant meter and appurtenances. A work order will be generated

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for removal of the meter.

- c. Meter Section staff will remove the meter and backflow prevention assembly and return it to the Meter Shop. Once returned to the Meter Shop the meter and backflow will be tested for accuracy and functionality.
- d. Meter Section Staff will contact and notify Customer Services of the final read and any charges resulting from damages to the meter and backflow or its appurtenance. These charges will be added on the customer's final bill and will be sent to the address of record. Any customer who has an outstanding balance will not receive additional meters.
- e. Outstanding balances due may be deducted from deposits and any balances refunded to the customer. Any outstanding balances will be turned over to the City Treasurer for collection. Outstanding balances may also be transferred to any other existing accounts.

5. **EXCEPTIONS**

- 5.1 Any request for exceptions to this policy shall be presented, in writing, to the Customer Support Deputy Director, or his/her designee for consideration.

6. **MOBILE METER**

- 6.1 Mobile meters will be allowed on a case by case basis. All mobile meters will be protected by an approved backflow assembly and the minimum requirement will be a Reduced Pressure Principal Assembly. The two types of Mobile Meters are vehicle mounted and floating meters. Each style of meters has separate guidelines that shall be followed for the customer to retain service and are described below:

- a) **Vehicle Mounted Meters:** Customer applies for and receives a City owned Fire Hydrant Meter from the Meter Shop. The customer mounts the meter on the vehicle and brings it to the Meter Shop for

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inspection. After installation is approved by the Meter Shop the vehicle and meter shall be brought to the Meter Shop on a monthly basis for meter reading and on a quarterly basis for testing of the backflow assembly. Meters mounted at the owner's expense shall have the one year contract expiration waived and shall have meter or backflow changed if either fails.

b) **Floating Meters:** Floating Meters are meters that are not mounted to a vehicle. **(Note: All floating meters shall have an approved backflow assembly attached.)** The customer shall submit an application and a letter explaining the need for a floating meter to the Meter Shop. The Fire Hydrant Meter Administrator, after a thorough review of the needs of the customer, (i.e. number of jobsites per day, City contract work, lack of mounting area on work vehicle, etc.), may issue a floating meter. At the time of issue, it will be necessary for the customer to complete and sign the "Floating Fire Hydrant Meter Agreement" which states the following:

- 1) The meter will be brought to the Meter Shop at 2797 Caminito Chollas, San Diego on the third week of each month for the monthly read by Meter Shop personnel.
- 2) Every other month the meter will be read and the backflow will be tested. This date will be determined by the start date of the agreement.

If any of the conditions stated above are not met the Meter Shop has the right to cancel the contract for floating meter use and close the account associated with the meter. The Meter Shop will also exercise the right to refuse the issuance of another floating meter to the company in question.

Any Fire Hydrant Meter using reclaimed water shall not be allowed use again with any potable water supply. The customer shall incur the cost of replacing the meter and backflow device in this instance.

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 9 OF 10	EFFECTIVE DATE October 15, 2002
	SUPERSEDES DI 55.27	DATED April 21, 2000

7. **FEE AND DEPOSIT SCHEDULES**

7.1 **Fees and Deposit Schedules:** The fees and deposits, as listed in the Rate Book of Fees and Charges, on file with the Office of the City Clerk, are based on actual reimbursement of costs of services performed, equipment and materials. These deposits and fees will be amended, as needed, based on actual costs. Deposits, will be refunded at the end of the use of the fire hydrant meter, upon return of equipment in good working condition and all outstanding balances on account are paid. Deposits can also be used to cover outstanding balances.

All fees for equipment, installation, testing, relocation and other costs related to this program are subject to change without prior notification. The Mayor and Council will be notified of any future changes.

8. **UNAUTHORIZED USE OF WATER FROM A HYDRANT**

8.1 Use of water from any fire hydrant without a properly issued and installed fire hydrant meter is theft of City property. Customers who use water for unauthorized purposes or without a City of San Diego issued meter will be prosecuted.

8.2 If any unauthorized connection, disconnection or relocation of a fire hydrant meter, or other connection device is made by anyone other than authorized Water Department personnel, the person making the connection will be prosecuted for a violation of San Diego Municipal Code, Section 67.15. In the case of a second offense, the customer's fire hydrant meter shall be confiscated and/or the deposit will be forfeited.

8.3 Unauthorized water use shall be billed to the responsible party. Water use charges shall be based on meter readings, or estimates when meter readings are not available.

8.4 In case of unauthorized water use, the customer shall be billed for all applicable charges as if proper authorization for the water use had been obtained, including but not limited to bi-monthly service charges, installation charges and removal charges.

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 10 OF 10	EFFECTIVE DATE October 15, 2002
	SUPERSEDES DI 55.27	DATED April 21, 2000

- 8.5 If damage occurs to Water Department property (i.e. fire hydrant meter, backflow, various appurtenances), the cost of repairs or replacements will be charged to the customer of record (applicant).

Water Department Director

- Tabs: 1. Fire Hydrant Meter Application
2. Construction & Maintenance Related Activities With No Return To Sewer
3. Notice of Discontinuation of Service

APPENDIX

Administering Division: Customer Support Division

Subject Index: Construction Meters
Fire Hydrant
Fire Hydrant Meter Program
Meters, Floating or Vehicle Mounted
Mobile Meter
Program, Fire Hydrant Meter

Distribution: DI Manual Holders



Application for Fire Hydrant Meter (EXHIBIT A)

(For Office Use Only)

NS REQ	FAC#
DATE	BY

METER SHOP (619) 527-7449

Meter Information

Application Date	Requested Install Date:
------------------	-------------------------

Fire Hydrant Location: (Attach Detailed Map//Thomas Bros. Map Location or Construction drawing.) Zip:	T.B.	G.B. (CITY USE)
Specific Use of Water:		
Any Return to Sewer or Storm Drain, if so, explain:		
Estimated Duration of Meter Use:		Check Box if Reclaimed Water

Company Information

Company Name:			
Mailing Address:			
City:	State:	Zip:	Phone: ()
*Business license#		*Contractor license#	
A Copy of the Contractor's license OR Business License is required at the time of meter issuance.			
Name and Title of Billing Agent: <small>(PERSON IN ACCOUNTS PAYABLE)</small>			Phone: ()
Site Contact Name and Title:			Phone: ()
Responsible Party Name:			Title:
Cal ID#			Phone: ()
Signature:		Date:	
Guarantees Payment of all Charges Resulting from the use of this Meter. Insures that employees of this Organization understand the proper use of Fire Hydrant Meter			

Fire Hydrant Meter Removal Request	Requested Removal Date:
Provide Current Meter Location if Different from Above:	
Signature:	Title: Date:
Phone: ()	Pager: ()

<input type="checkbox"/> City Meter	<input type="checkbox"/> Private Meter
Contract Acct #:	Deposit Amount: \$ 936.00 Fees Amount: \$ 62.00
Meter Serial #	Meter Size: 05 Meter Make and Style: 6-7
Backflow #	Backflow Size: Backflow Make and Style:
Name:	Signature: Date:

WATER USES WITHOUT ANTICIPATED CHARGES FOR RETURN TO SEWER

Auto Detailing
Backfilling
Combination Cleaners (Vactors)
Compaction
Concrete Cutters
Construction Trailers
Cross Connection Testing
Dust Control
Flushing Water Mains
Hydro Blasting
Hydro Seeing
Irrigation (for establishing irrigation only; not continuing irrigation)
Mixing Concrete
Mobile Car Washing
Special Events
Street Sweeping
Water Tanks
Water Trucks
Window Washing

Note:

1. If there is any return to sewer or storm drain, then sewer and/or storm drain fees will be charges.

Date

Name of Responsible Party
Company Name and Address
Account Number: _____

Subject: Discontinuation of Fire Hydrant Meter Service

Dear Water Department Customer:

The authorization for use of Fire Hydrant Meter # _____, located at *(Meter Location Address)* ends in 60 days and will be removed on or after *(Date Authorization Expires)*. Extension requests for an additional 90 days must be submitted in writing for consideration 30 days prior to the discontinuation date. If you require an extension, please contact the Water Department, or mail your request for an extension to:

City of San Diego
Water Department
Attention: Meter Services
2797 Caminito Chollas
San Diego, CA 92105-5097

Should you have any questions regarding this matter, please call the Fire Hydrant Hotline at (619) _____ - _____.

Sincerely,

Water Department

APPENDIX C

MATERIALS TYPICALLY ACCEPTED BY CERTIFICATE OF COMPLIANCE

Materials Typically Accepted by Certificate of Compliance

1. Soil amendment
2. Fiber mulch
3. PVC or PE pipe up to 16 inch diameter
4. Stabilizing emulsion
5. Lime
6. Preformed elastomeric joint seal
7. Plain and fabric reinforced elastomeric bearing pads
8. Steel reinforced elastomeric bearing pads
9. Waterstops (Special Condition)
10. Epoxy coated bar reinforcement
11. Plain and reinforcing steel
12. Structural steel
13. Structural timber and lumber
14. Treated timber and lumber
15. Lumber and timber
16. Aluminum pipe and aluminum pipe arch
17. Corrugated steel pipe and corrugated steel pipe arch
18. Structural metal plate pipe arches and pipe arches
19. Perforated steel pipe
20. Aluminum underdrain pipe
21. Aluminum or steel entrance tapers, pipe downdrains, reducers, coupling bands and slip joints
22. Metal target plates
23. Paint (traffic striping)
24. Conductors
25. Painting of electrical equipment
26. Electrical components
27. Engineering fabric
28. Portland Cement
29. PCC admixtures
30. Minor concrete, asphalt
31. Asphalt (oil)
32. Liquid asphalt emulsion
33. Epoxy

APPENDIX D
SAMPLE CITY INVOICE WITH SPEND CURVE

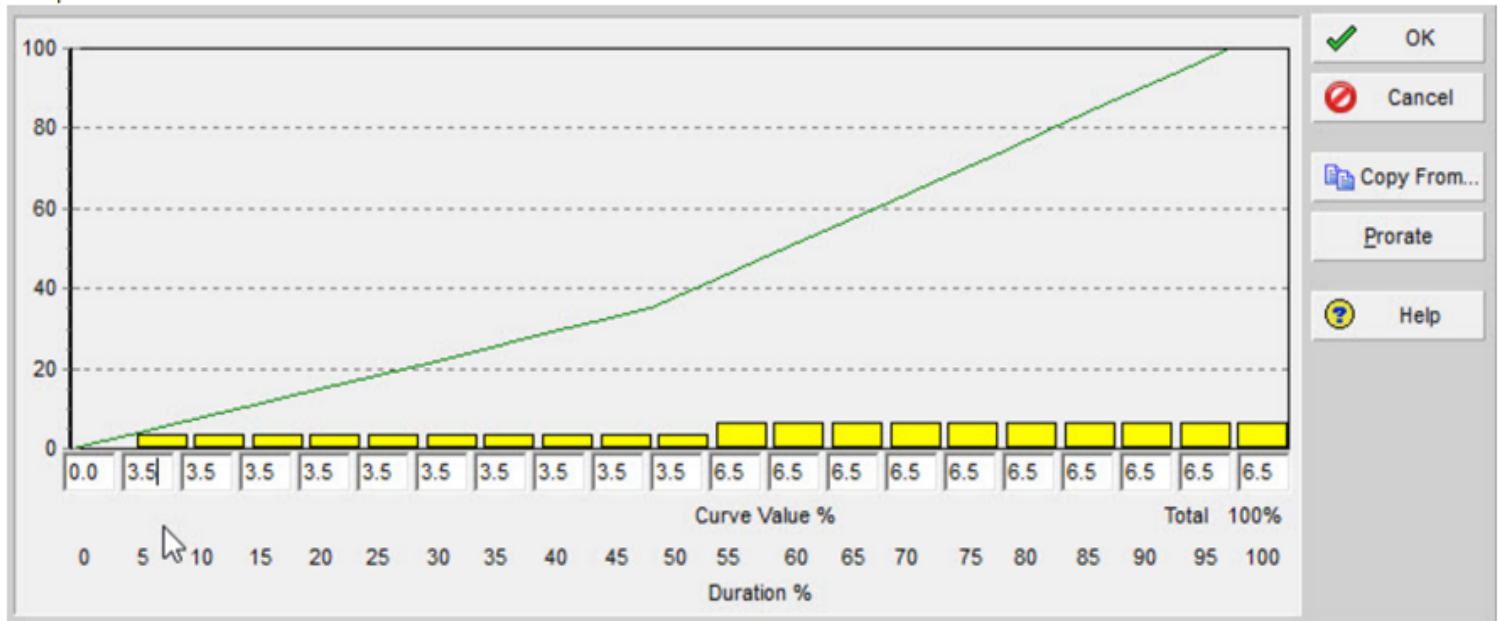
Sample Project Spend Curve

Sample Date Entries Required

Incremental Curve Value
Duration % Increment

0.0%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	6.5%	6.5%	6.5%	6.5%	6.5%	6.5%	6.5%	6.5%	6.5%	6.5%
0%	5%	10%	15%	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%	100%

Sample Screenshot from Primavera P6



APPENDIX E
LOCATION MAPS

AC WATER AND SEWER GROUP 1024

SENIOR ENGINEER
ANDREA DEMICH
(619) 533-5126

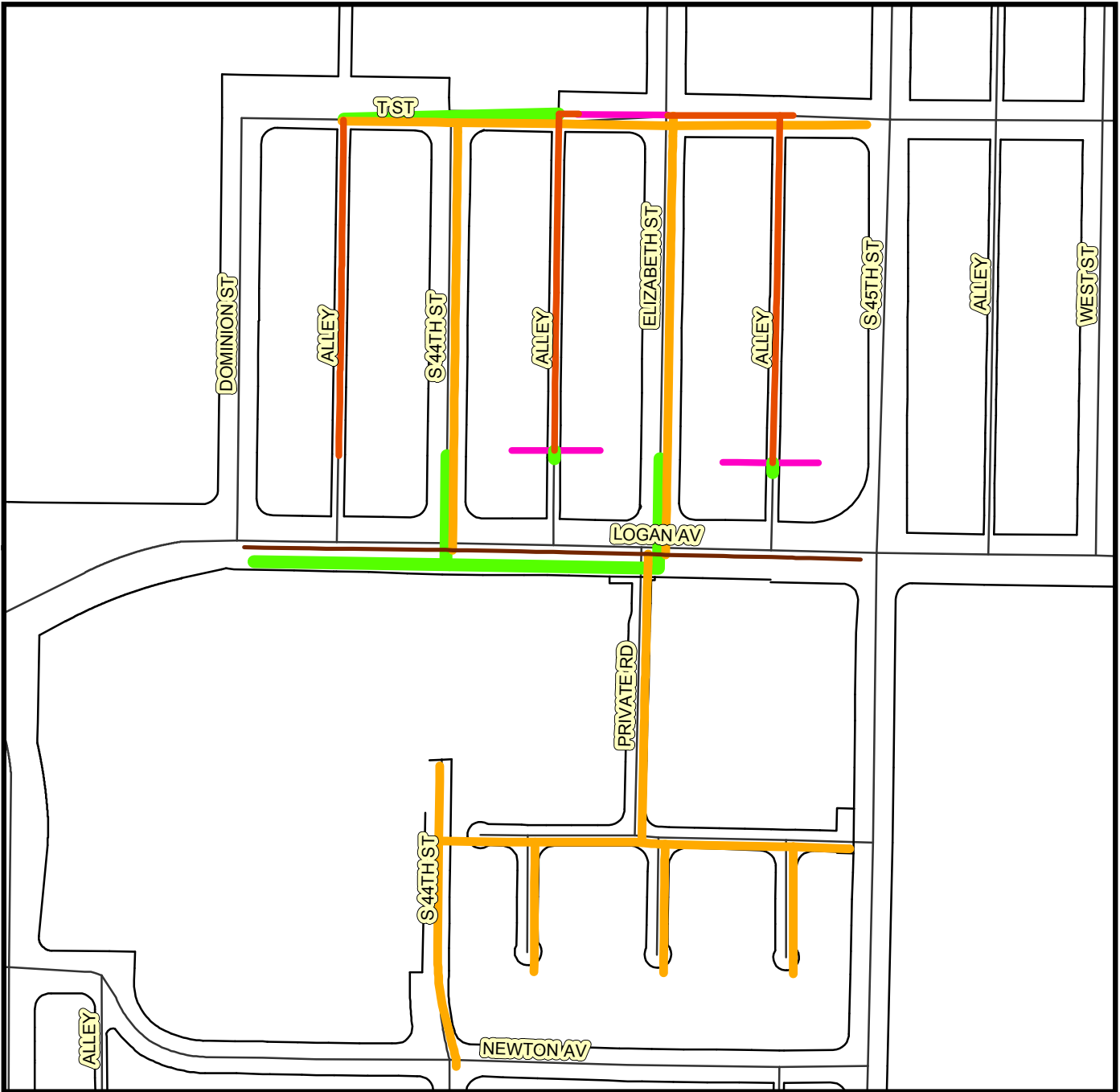
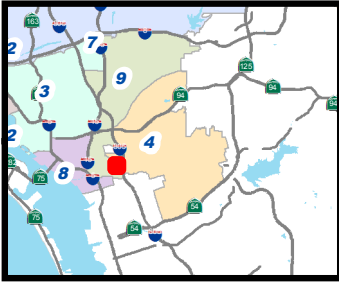
PROJECT MANAGER
SANTIAGO CRESPO
(619) 533-3627

PROJECT ENGINEER
MIRKO LAZOVIC
(619) 533-4134

FOR QUESTIONS ABOUT THIS PROJECT
Call 619-533-4207
Email: engineering@sandiego.gov

Location Map

(MAP 1 OF 3)



Legend

- Proposed 12-Inch Water
- Proposed 8-Inch Sewer Replacement
- Proposed 8-Inch Water
- Proposed New 8-Inch Sewer
- Proposed Sewer Abandonment



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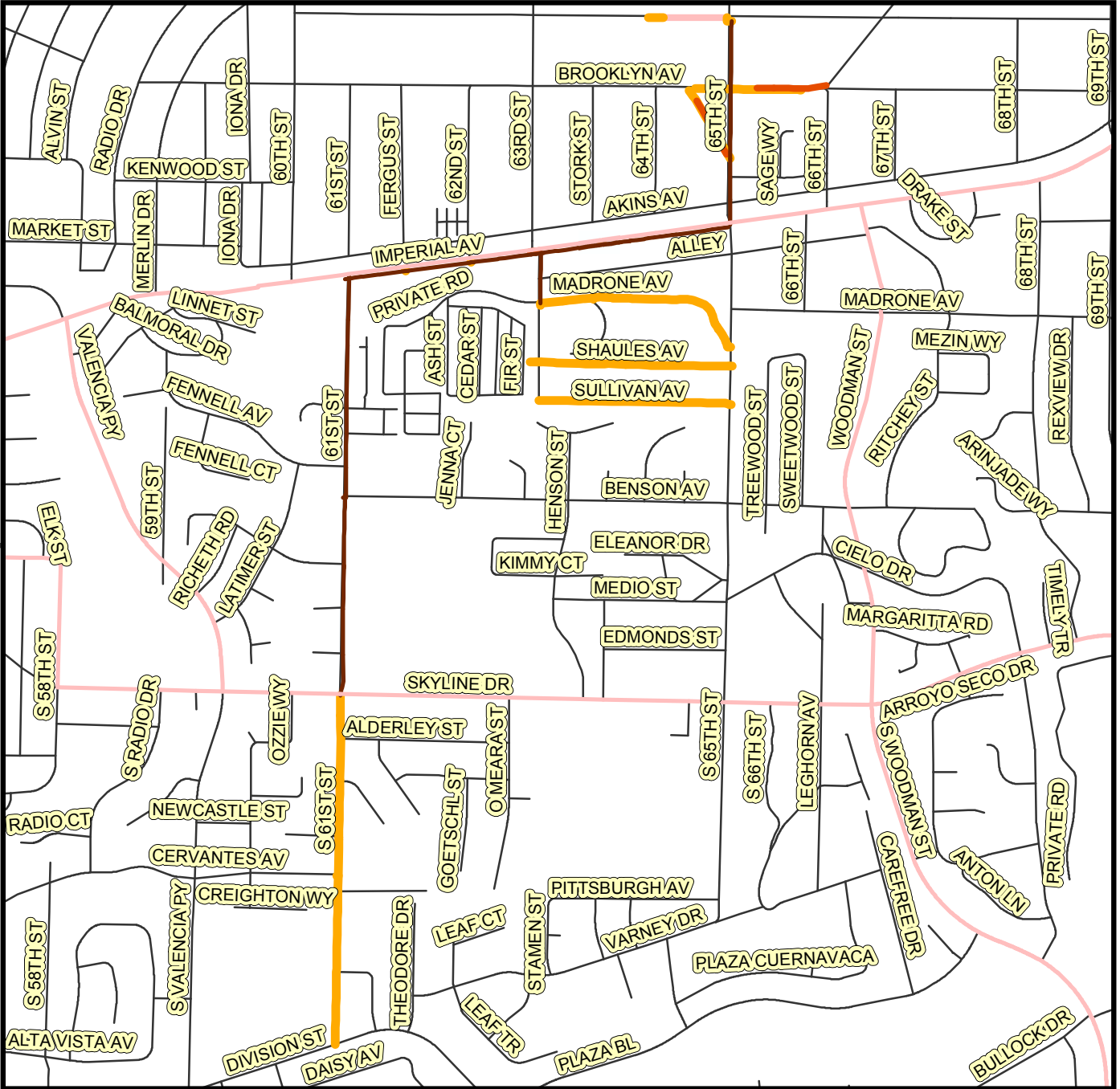
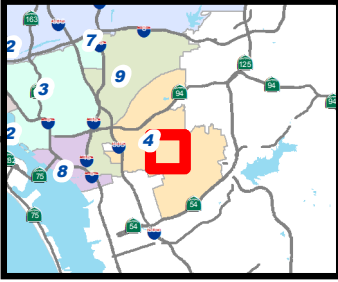
PROJECT MANAGER
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MIRKO LAZOVIC
(619) 533-4134

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Location Map

(MAP 2 OF 3)



Legend

- Proposed 12-Inch Water
- Proposed 8-Inch Sewer Replacement
- Proposed Water Abandonment



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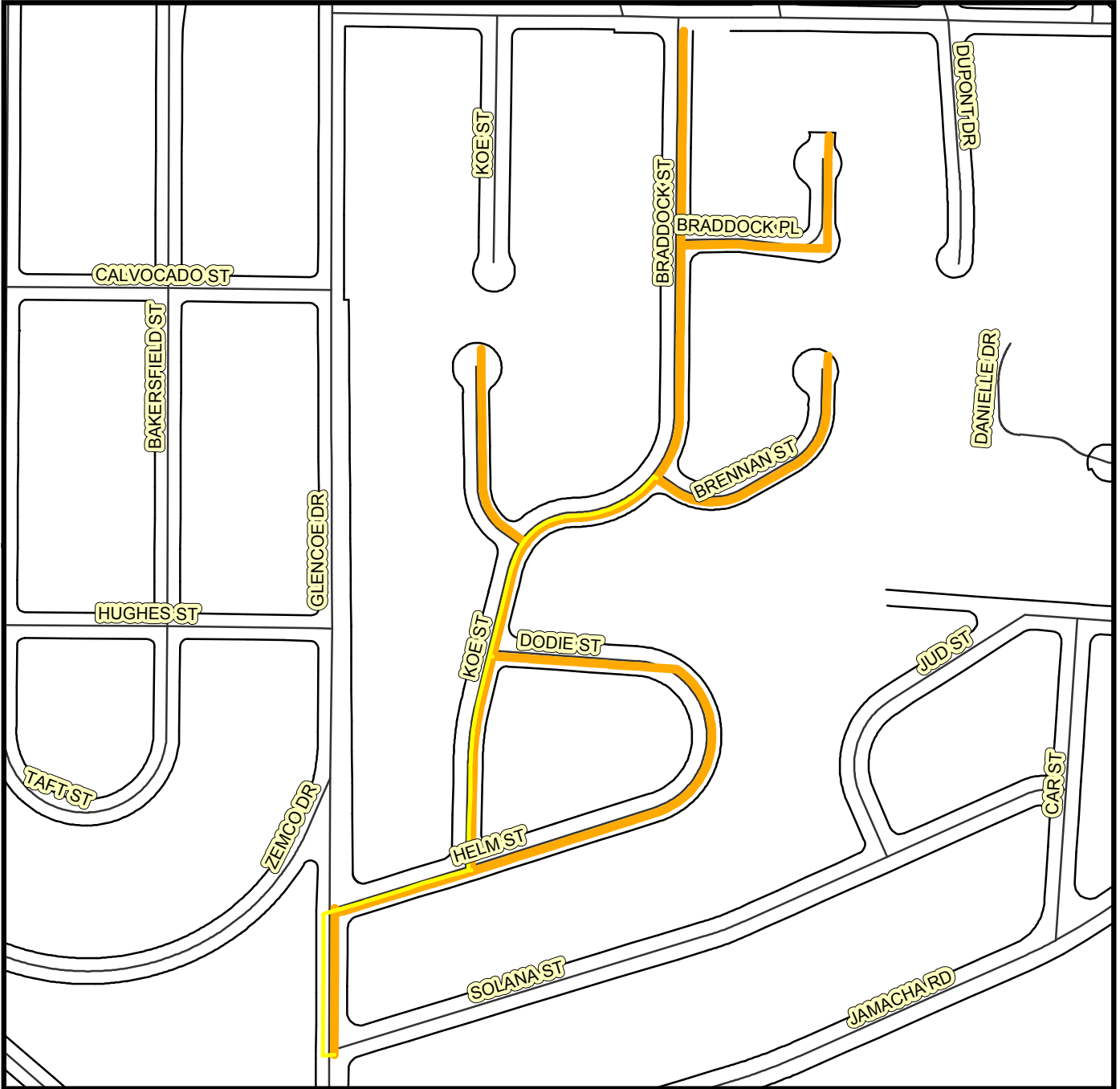
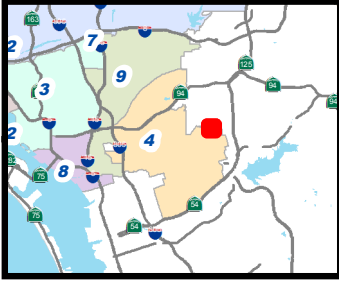
PROJECT MANAGER
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MIRKO LAZOVIC
(619) 533-4134

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Location Map

(MAP 3 OF 3)



Legend

- Proposed 8-Inch Parallel Water
- Proposed 8-Inch Water



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APPENDIX F
ADJACENT PROJECTS MAPS

AC WATER AND SEWER GROUP 1024

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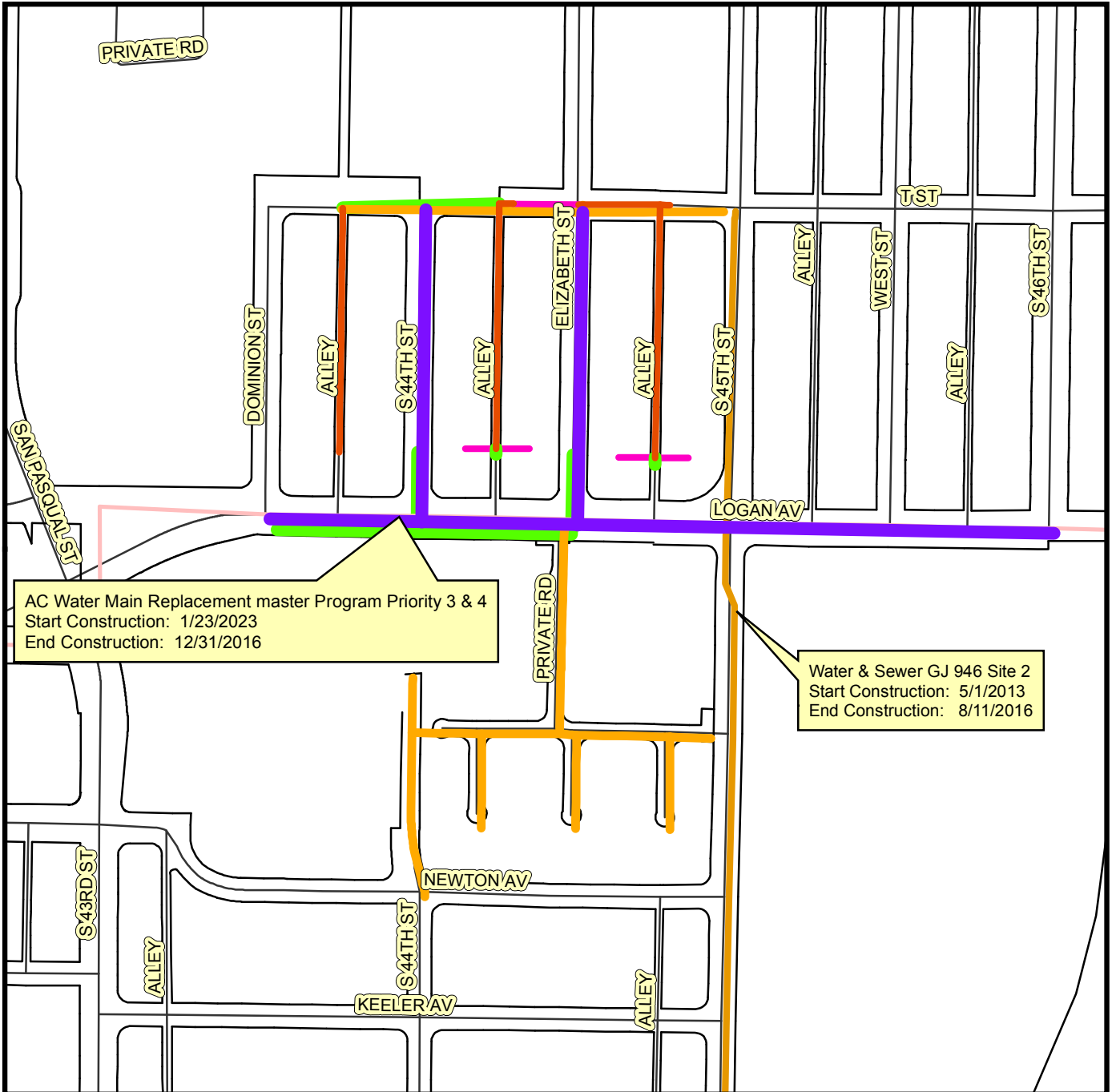
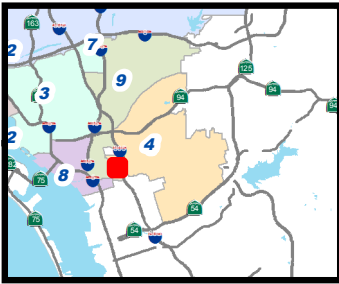
PROJECT MANAGER
SANTIAGO CRESPO
(619) 533-3627

PROJECT ENGINEER
MIRKO LAZOVIC
(619) 533-4134

FOR QUESTIONS ABOUT THIS PROJECT
Call 619-533-4207
Email: engineering@san Diego.gov

Adjacent Projects Map

(MAP 1 OF 3)



AC Water Main Replacement master Program Priority 3 & 4
Start Construction: 1/23/2023
End Construction: 12/31/2016

Water & Sewer GJ 946 Site 2
Start Construction: 5/1/2013
End Construction: 8/11/2016

Legend

- Proposed 12-Inch Water
- Proposed 8-Inch Sewer Replacement
- Proposed 8-Inch Water
- Proposed New 8-Inch Sewer
- Proposed Sewer Abandonment
- AC Water Main Replacement Master Program Priority 3 & 4
- Water & Sewer GJ 946 Site 2
- Bike_Route



No Scale

Document Path: P:\CIP\B16082_B16083\02-Design\PreDesign Location Map (7-22-17).mxd

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SENIOR ENGINEER
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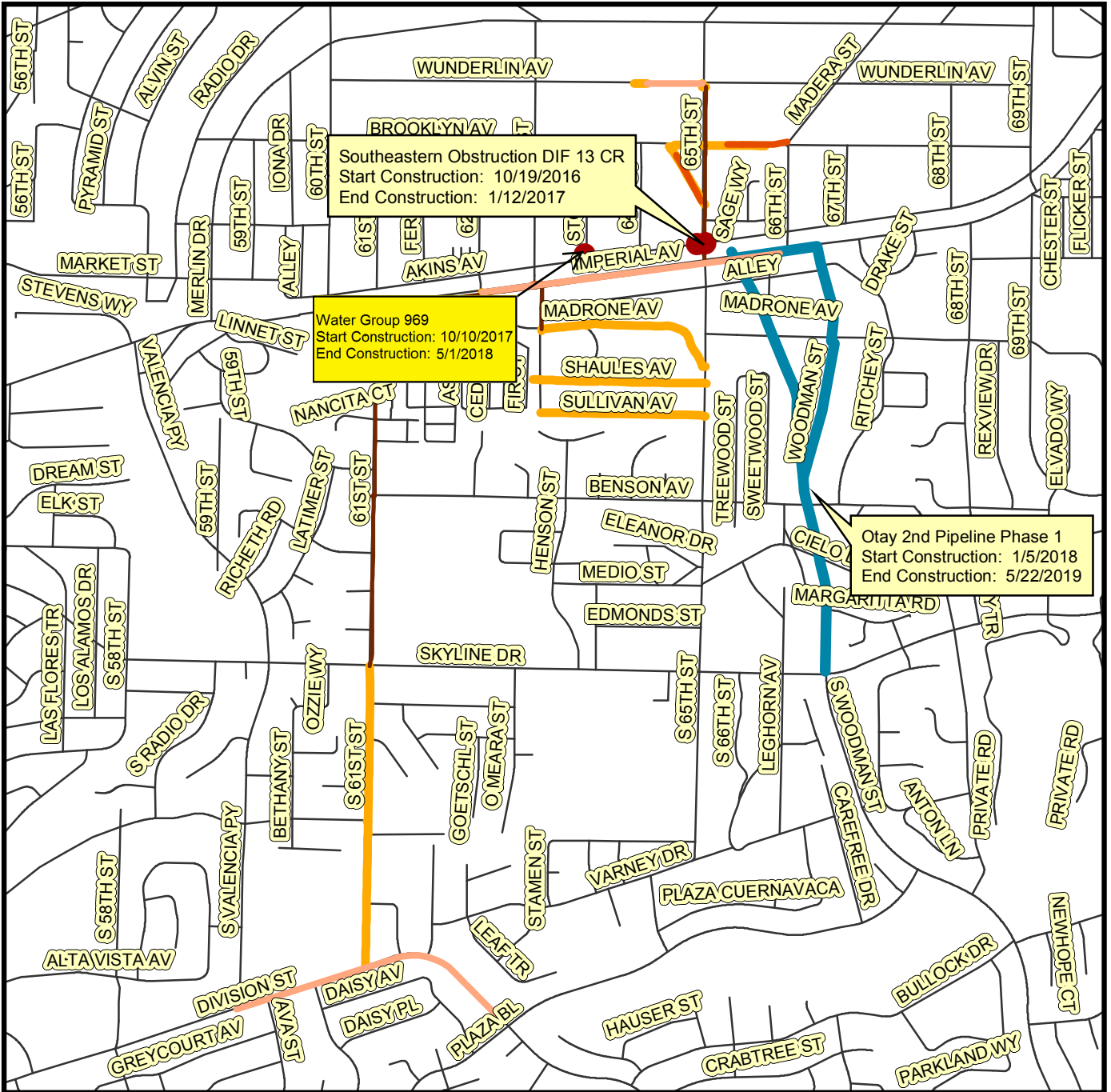
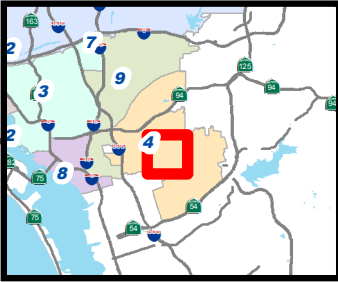
PROJECT MANAGER
SANTIAGO CRESPO
(619) 533-3627

PROJECT ENGINEER
MIRKO LAZOVIC
(619) 533-4134

FOR QUESTIONS ABOUT THIS PROJECT
Call 619-533-4207
Email: engineering@san Diego.gov

Adjacent Projects Map

(MAP 2 OF 3)



Legend

- Proposed 12-Inch Water
- Proposed 8-Inch Sewer Replacement
- Proposed Water Abandonment
- Proposed 8-Inch Water
- Otay 2nd Pipeline Phase 1
- Southeastern Obstruction DIF 13 CR
- Proposed Bike Path



No Scale

Document Path: P:\CIP\B16082_B16083\02-Design\PreDesign Location Map (7-22-17).mxd

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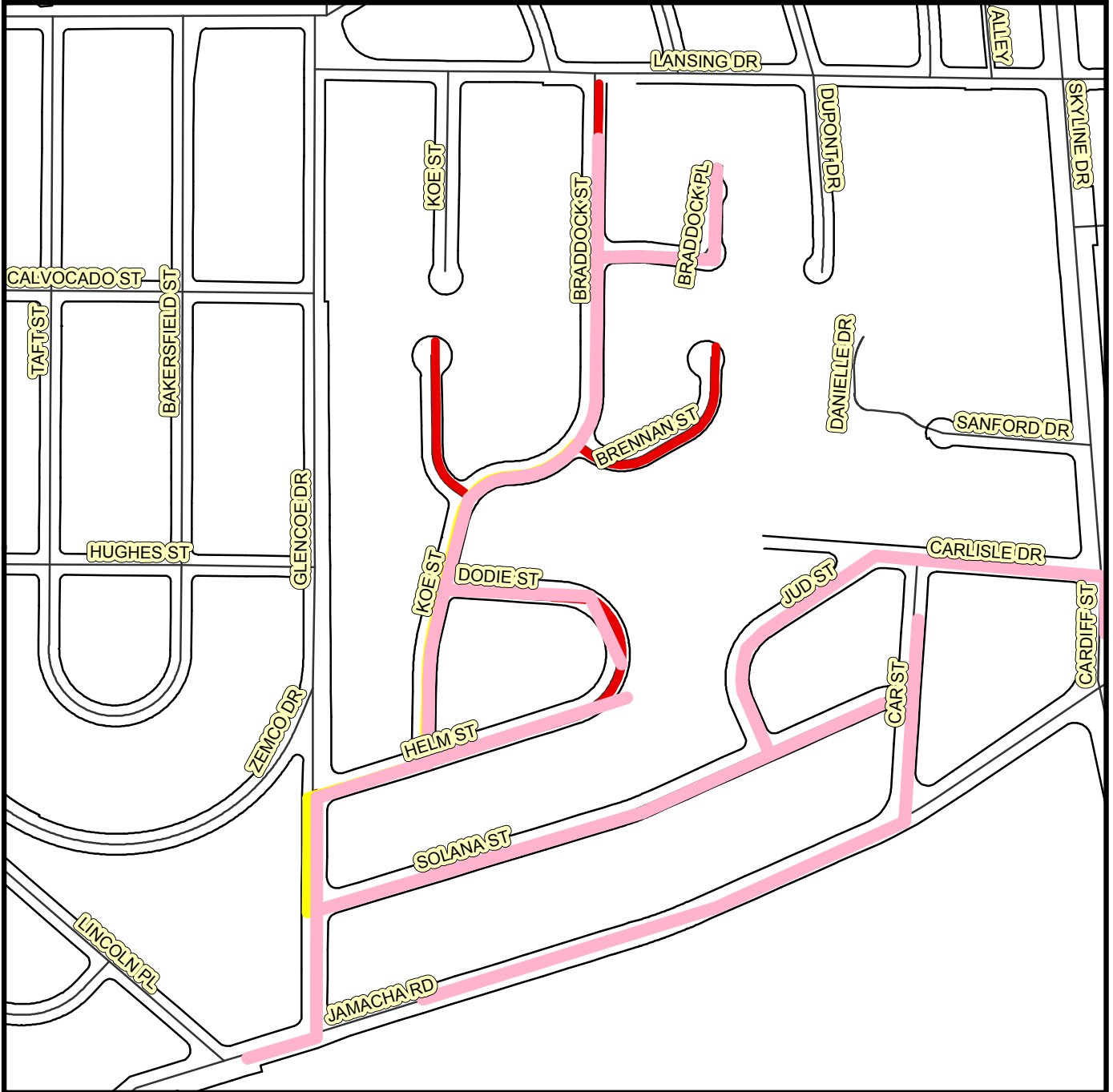
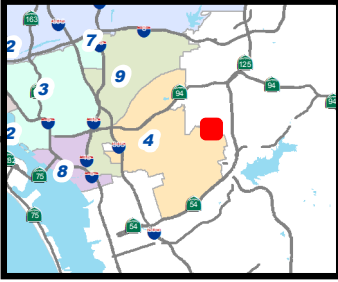
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PROJECT ENGINEER
MIRKO LAZOVIC
(619) 533-4134

FOR QUESTIONS ABOUT THIS PROJECT
Call 619-533-4207
Email: engineering@sandiego.gov

Adjacent Projects Map

(MAP 3 OF 3)



Legend

- Proposed 8-Inch Water
- Proposed 8-Inch Parallel Water
- Pipeline Rehabilitation AC-1
- Proposed Bike Path - None



No Scale

Document Path: P:\CIP\B16082_B16083\02-Design\Predesign Location Map (7-22-17).mxd

Community Name: Southeastern: San Diego, Southeastern Encanto Neighborhood, Southeastern

Council District: 4 & 9

WBS # B16082 (W)

B16083 (S)

Date: 7/14/2017 AC Water and Sewer Group 1024

MACC Request for Proposal Appendix F - Adjacent Projects Maps



Last updated by: NViray on 7/14/2017 12:10:15 Page

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APPENDIX G

ADVANCED METERING INFRASTRUCTURE (AMI) DEVICE PROTECTION

Protecting AMI Devices in Meter Boxes and on Street Lights

The Public Utilities Department (PUD) has begun the installation of the Advanced Metering Infrastructure (AMI) technology as a new tool to enhance water meter reading accuracy and efficiency, customer service and billing, and to be used by individual accounts to better manage the efficient use of water. **All AMI devices shall be protected per Section 5-2, "Protection", of the 2015 Whitebook.**

AMI technology allows water meters to be read electronically rather than through direct visual inspection by PUD field staff. This will assist PUD staff and customers in managing unusual consumption patterns which could indicate leaks or meter tampering on a customer's property.

Three of the main components of an AMI system are the:

- A. Endpoints, see Photo 1:

Photo 1



B. AMI Antenna attached to Endpoint (antenna not always required), see Photo 2:

Photo 2



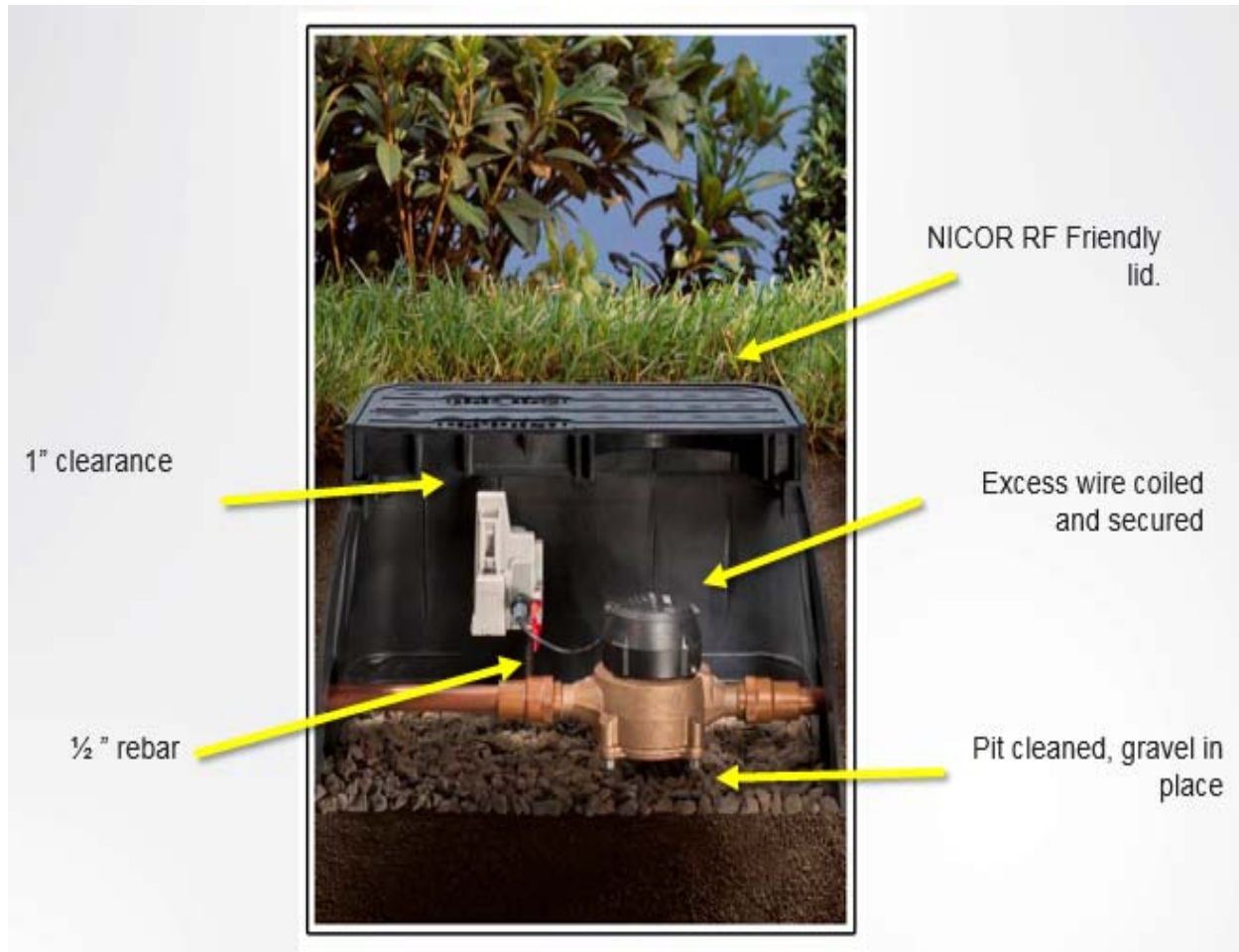
Network Devices, see Photo 3:

Photo 3



AMI endpoints transmit meter information to the AMI system and will soon be on the vast majority of meters in San Diego. These AMI devices provide interval consumption data to the PUD's Customer Support Division. If these devices are damaged or communication is interrupted, this Division will be alerted of the situation. The endpoints are installed in water meter boxes, coffins, and vaults adjacent to the meter. A separate flat round antenna may also be installed through the meter box lid. This antenna is connected to the endpoint via cable. The following proper installation shall be implemented when removing the lid to avoid damaging the antenna, cable, and/or endpoint. Photo 4 below demonstrates a diagram of the connection:

Photo 4



The AMI device ERT/Endpoint/Transmitter shall be positioned and installed as discussed in this Appendix. If the ERT/Endpoint/Transmitter is disturbed, it shall be re-installed and returned to its original installation with the end points pointed upwards as shown below in Photo 5.

The PUD's code compliance staff will issue citations and invoices to you for any damaged AMI devices that are not re-installed as discussed in the Contract Document

Photo 5 below shows a typical installation of an AMI endpoint on a water meter.

Photo 5

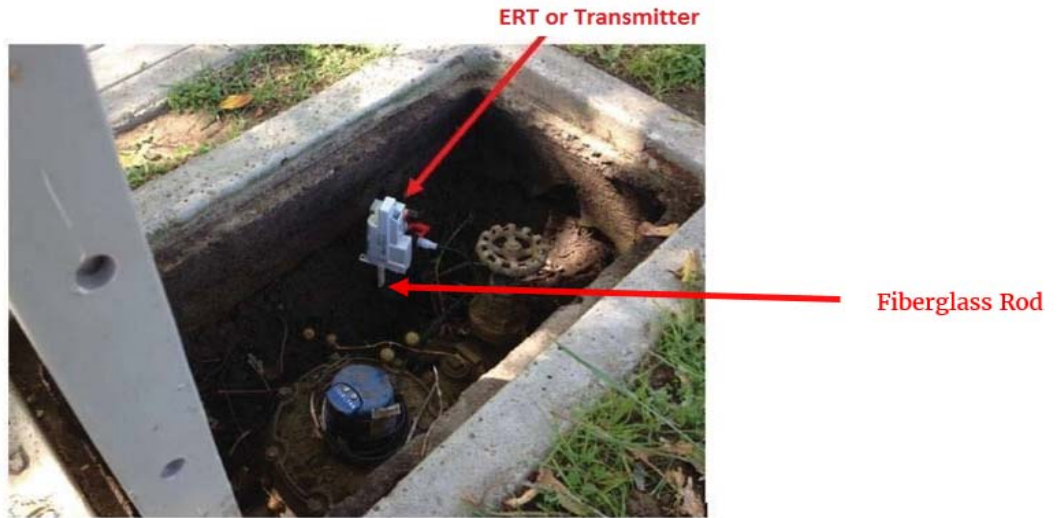


Photo 6 below is an example of disturbance that shall be avoided:

Photo 6



You are responsible when working in and around meter boxes. If you encounter these endpoints, use proper care and do not disconnect them from the registers on top of the water meter. If the lid has an antenna drilled through, do not change or tamper with the lid and inform the Resident Engineer immediately about the location of that lid. Refer to Photo 7 below:

Photo 7



Another component of the AMI system are the Network Devices. The Network Devices are strategically placed units (mainly on street light poles) that collect interval meter reading data from multiple meters for transmission to the Department Control Computer. **If you come across any of these devices on street lights that will be removed or replaced (refer to Photos 8 and 9 below), notify AMI Project Manager Arwa Sayed at (619) 362-0121 immediately.**

Photo 8 shows an installed network device on a street light. On the back of each Network Device is a sticker with contact information. See Photo 9. **Call PUD Water Emergency Repairs at 619-515-3525 if your work will impact these street lights.** These are assets that belong to the City of San Diego and you shall be responsible for any costs of disruption of this network.

Photo 8



Network Device

Photo 9



If you encounter any bad installations, disconnected/broken/buried endpoints, or inadvertently damage any AMI devices or cables, notify the Resident Engineer immediately. The Resident Engineer will then immediately contact the AMI Project Manager, Arwa Sayed, at (619) 362-0121.

APPENDIX H
SAMPLE OF PUBLIC NOTICE



CONSTRUCTION NOTICE

PROJECT TITLE

Work on your street will begin within one week to replace the existing water mains servicing your community.

The work will consist of:

- Saw-cutting and trench work on Ingulf Street from Morena Boulevard to Galveston Street to install new water mains, water laterals and fire hydrants.
- Streets where trenching takes place will be resurfaced and curb ramps will be upgraded to facilitate access for persons with disabilities where required.
- This work is anticipated to be complete in your community by December 2016.

How your neighborhood may be impacted:

- Water service to some properties during construction will be provided by a two-inch highline pipe that will run along the curb. To report a highline leak call 619-515-3525.
- Temporary water service disruptions are planned. If planned disruptions impact your property, you will receive advance notice.
- Parking restrictions will exist because of the presence of construction equipment and materials.
- "No Parking" signs will be displayed 72 hours in advance of the work.
- Cars parked in violation of signs will be TOWED.

Hours and Days of Operation:

Monday through Friday X:XX AM to X:XX PM.

City of San Diego Contractor:

Company Name, XXX-XXX-XXXX



CONSTRUCTION NOTICE

PROJECT TITLE

Work on your street will begin within one week to replace the existing water mains servicing your community.

The work will consist of:

- Saw-cutting and trench work on Ingulf Street from Morena Boulevard to Galveston Street to install new water mains, water laterals and fire hydrants.
- Streets where trenching takes place will be resurfaced and curb ramps will be upgraded to facilitate access for persons with disabilities where required.
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- Water service to some properties during construction will be provided by a two-inch highline pipe that will run along the curb. To report a highline leak call 619-515-3525.
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- Parking restrictions will exist because of the presence of construction equipment and materials.
- "No Parking" signs will be displayed 72 hours in advance of the work.
- Cars parked in violation of signs will be TOWED.

Hours and Days of Operation:

Monday through Friday X:XX AM to X:XX PM.

City of San Diego Contractor:

Company Name, XXX-XXX-XXXX

APPENDIX I
HAZARDOUS FORMS/LABEL

INCIDENT/RELEASE ASSESSMENT FORM ¹

If you have an emergency, Call 911

Handlers of hazardous materials are required to report releases. The following is a tool to be used for assessing if a release is reportable. Additionally, a non-reportable release incident form is provided to document why a release is not reported (see back).

Questions for Incident Assessment:

	YES	NO
1. Was anyone killed or injured, or did they require medical care or admitted to a hospital for observation?	<input type="checkbox"/>	<input type="checkbox"/>
2. Did anyone, other than employees in the immediate area of the release, evacuate?	<input type="checkbox"/>	<input type="checkbox"/>
3. Did the release cause off-site damage to public or private property?	<input type="checkbox"/>	<input type="checkbox"/>
4. Is the release greater than or equal to a reportable quantity (RQ)?	<input type="checkbox"/>	<input type="checkbox"/>
5. Was there an uncontrolled or unpermitted release to the air?	<input type="checkbox"/>	<input type="checkbox"/>
6. Did an uncontrolled or unpermitted release escape secondary containment, or extend into any sewers, storm water conveyance systems, utility vaults and conduits, wetlands, waterways, public roads, or off site?	<input type="checkbox"/>	<input type="checkbox"/>
7. Will control, containment, decontamination, and/or clean up require the assistance of federal, state, county, or municipal response elements?	<input type="checkbox"/>	<input type="checkbox"/>
8. Was the release or threatened release involving an unknown material or contains an unknown hazardous constituent?	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the incident a threatened release (a condition creating a substantial probability of harm that requires immediate action to prevent, reduce, or mitigate damages to persons, property, or the environment)?	<input type="checkbox"/>	<input type="checkbox"/>
10. Is there an increased potential for secondary effects including fire, explosion, line rupture, equipment failure, or other outcomes that may endanger or cause exposure to employees, the general public, or the environment?	<input type="checkbox"/>	<input type="checkbox"/>

If the answer is YES to any of the above questions – report the release to the California Office of Emergency Services at 800-852-7550 and the local CUPA daytime: (619) 338-2284, after hours: (858) 565-5255. Note: other state and federal agencies may require notification depending on the circumstances.

Call 911 in an emergency

If all answers are NO, complete a Non Reportable Release Incident Form (page 2 of 2) and keep readily available. Documenting why a “no” response was made to each question will serve useful in the event questions are asked in the future, and to justify not reporting to an outside regulatory agency.

If in doubt, report the release.

¹ This document is a guide for accessing when hazardous materials release reporting is required by Chapter 6.95 of the California Health and Safety Code. It does not replace good judgment, Chapter 6.95, or other state or federal release reporting requirements.

NON REPORTABLE RELEASE INCIDENT FORM

1. RELEASE AND RESPONSE DESCRIPTION

Incident # _____

Date/Time Discovered	Date/Time Discharge	Discharge Stopped <input type="checkbox"/> Yes <input type="checkbox"/> No
Incident Date / Time:		
Incident Business / Site Name:		
Incident Address:		
Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS)		
Please describe the incident and indicate specific causes and area affected. Photos Attached?: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Indicate actions to be taken to prevent similar releases from occurring in the future.		

2. ADMINISTRATIVE INFORMATION

Supervisor in charge at time of incident:	Phone:
Contact Person:	Phone:

3. CHEMICAL INFORMATION

Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT ³
Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT ³
Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT ³
Clean-Up Procedures & Timeline:	
Completed By:	Phone:
Print Name:	Title:

EMERGENCY RELEASE FOLLOW - UP NOTICE REPORTING FORM

A	BUSINESS NAME	FACILITY EMERGENCY CONTACT & PHONE NUMBER () -
B	INCIDENT DATE: MO DAY YR TIME OES NOTIFIED (use 24 hr time)	OES CONTROL NO.
C	INCIDENT ADDRESS LOCATION	CITY / COMMUNITY COUNTY ZIP
D	CHEMICAL OR TRADE NAME (print or type)	CAS Number
E	CHECK IF CHEMICAL IS LISTED IN 40 CFR 355, APPENDIX A <input type="checkbox"/>	CHECK IF RELEASE REQUIRES NOTIFICATION UNDER 42 U.S.C. Section 9603 (a) <input type="checkbox"/>
F	PHYSICAL STATE CONTAINED: <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> GAS PHYSICAL STATE RELEASED: <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> GAS	QUANTITY RELEASED
G	ENVIRONMENTAL CONTAMINATION: <input type="checkbox"/> AIR <input type="checkbox"/> WATER <input type="checkbox"/> GROUND <input type="checkbox"/> OTHER	TIME OF RELEASE DURATION OF RELEASE _____ DAYS _____ HOURS _____ MINUTES
H	ACTIONS TAKEN	
I	KNOWN OR ANTICIPATED HEALTH EFFECTS (Use the comments section for addition information) <input type="checkbox"/> ACUTE OR IMMEDIATE (explain) _____ <input type="checkbox"/> CHRONIC OR DELAYED (explain) _____ <input type="checkbox"/> NOTKNOWN (explain) _____	
J	ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS	
K	COMMENTS (INDICATE SECTION (A - G) AND ITEM WITH COMMENTS OR ADDITIONAL INFORMATION)	
L	CERTIFICATION: I certify under penalty of law that I have personally examined and I am familiar with the information submitted and believe the submitted information is true, accurate, and complete. REPORTING FACILITY REPRESENTATIVE (print or type) _____ SIGNATURE OF REPORTING FACILITY REPRESENTATIVE _____ DATE: _____	

EMERGENCY RELEASE FOLLOW-UP NOTICE REPORTING FORM INSTRUCTIONS

GENERAL INFORMATION:

Chapter 6.95 of Division 20 of the California Health and Safety Code requires that written emergency release follow-up notices prepared pursuant to 42 U.S.C. § 11004, be submitted using this reporting form. Non-permitted releases of reportable quantities of Extremely Hazardous Substances (listed in 40 CFR 355, appendix A) or of chemicals that require release reporting under section 103(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 [42 U.S.C. § 9603(a)] must be reported on the form, as soon as practicable, but no later than 30 days, following a release. The written follow-up report is required in addition to the verbal notification.

BASIC INSTRUCTIONS:

- The form, when filled out, reports follow-up information required by 42 U.S.C § 11004. Ensure that all information requested by the form is provided as completely as possible.
- If the incident involves reportable releases of more than one chemical, prepare one report form for each chemical released.
- If the incident involves a series of separate releases of chemical(s) at different times, the releases should be reported on separate reporting forms.

SPECIFIC INSTRUCTIONS:

Block A: Enter the name of the business and the name and phone number of a contact person who can provide detailed facility information concerning the release.

Block B: Enter the date of the incident and the time that verbal notification was made to OES. The OES control number is provided to the caller by OES at the time verbal notification is made. Enter this control number in the space provided.

Block C: Provide information pertaining to the location where the release occurred. Include the street address, the city or community, the county and the zip code.

Block D: Provide information concerning the specific chemical that was released. Include the chemical or trade name and the Chemical Abstract Service (CAS) number. Check all categories that apply. Provide best available information on quantity, time and duration of the release.

Block E: Indicate all actions taken to respond to and contain the release as specified in 42 U.S.C. § 11004(c).

Block F: Check the categories that apply to the health effects that occurred or could result from the release. Provide an explanation or description of the effects in the space provided. Use Block H for additional comments/information if necessary to meet requirements specified in 42 U.S.C. § 11004(c).

Block G: Include information on the type of medical attention required for exposure to the chemical released. Indicate when and how this information was made available to individuals exposed and to medical personnel, if appropriate for the incident, as specified in 42 U.S.C. § 11004(c).

Block H: List any additional pertinent information.

Block I: Print or type the name of the facility representative submitting the report. Include the official signature and the date that the form was prepared.

MAIL THE COMPLETED REPORT TO:

**State Emergency Response Commission (SERC)
Attn: Section 304 Reports
Hazardous Materials Unit
3650 Schriever Avenue
Mather, CA 95655**

NOTE: Authority cited: Sections 25503, 25503.1 and 25507.1, Health and Safety Code. Reference: Sections 25503(b)(4), 25503.1, 25507.1, 25518 and 25520, Health and Safety Code.

HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBITS IMPROPER DISPOSAL
IF FOUND, CONTACT THE NEAREST POLICE, OR PUBLIC SAFETY
AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY
OR THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES

GENERATOR NAME _____

ADDRESS _____ 24 HR. PHONE () _____

CITY _____ STATE _____ ZIP _____

EPA ID NO. _____ MANIFEST DOCUMENT NO. _____

EPA WASTE NO. _____ CA WASTE NO. _____ ACCUMULATION START DATE _____ / ____ / ____

CONTENTS, COMPOSITION _____

PROPER DOT SHIPPING NAME _____

TECHNICAL NAME (S) _____

UN/NA NO. WITH PREFIX _____

PHYSICAL STATE | HAZARDOUS PROPERTIES FLAMMABLE TOXIC
 SOLID LIQUID CORROSIVE REACTIVE OTHER _____

HANDLE WITH CARE!
CONTAINS HAZARDOUS OR TOXIC WASTES

APPENDIX J
SAMPLE ARCHAEOLOGY INVOICE

(FOR ARCHAEOLOGY ONLY)

Company Name

Address, telephone, fax

Date: Insert Date

To: Name of Resident Engineer
City of San Diego
Field Engineering Division
9485 Aero Drive
San Diego, CA 92123-1801

Project Name: Insert Project Name

SAP Number (WBS/IO/CC): Insert SAP Number

Drawing Number: Insert Drawing Number

Invoice period: Insert Date to Insert Date

Work Completed: Bid item Number – Description of Bid Item – Quantity – Unit Price– Amount

Detailed summary of work completed under this bid item: Insert detailed description of Work related to Archaeology Monitoring Bid item. See Note 1 below.

Summary of charges:

Description of Services	Name	Start Date	End Date	Total Hours	Hourly Rate	Amount
Field Archaeologist	Joe Smith	8/29/2011	9/2/2011	40	\$84	\$3,360
Laboratory Assistant	Jane Doe	8/29/2011	9/2/2011	2	\$30	\$60
Subtotal						\$3,420

Work Completed: Bid item Number – Description of Bid Item – Quantity – Unit Price– Amount

Detailed summary of work completed under this bid item: Insert detailed description of Work related to Archaeology Curation/Discovery Bid item. See Note 2 below.

Summary of charges:

Description of Services	Where work occurred (onsite vs offsite/lab)	Name	Start Date	End Date	Total Hours	Hourly Rate	Amount
Field Archaeologist		Joe Smith	8/29/2011	9/2/2011	40	\$84	\$3,360
Laboratory Assistant		Jane Doe	8/29/2011	9/2/2011	2	\$30	\$60
Subtotal							\$3,420

Total this invoice: \$ _____

Total invoiced to date: \$ _____

Note 1:

For monitoring related bid items or work please include summary of construction work that was monitored from Station to Station, Native American monitors present, MMC coordination, status and nature of monitoring and if any discoveries were made.

Note 2:

For curation/discovery related bid items or work completed as part of a discovery and curation process, the PI must provide a response to the following questions along with the invoice:

1. Preliminary results of testing including tentative recommendations regarding eligibility for listing in the California Register of Historical Resources (California Register).
 - a. Please briefly describe your application (consideration) of all four California Register criteria.
 - b. If the resource is eligible under Criterion D, please define the important information that may be present.
 - c. Were specialized studies performed? How many personnel were required? How many Native American monitors were present?
 - d. What is the age of the resource?
 - e. Please define types of artifacts to be collected and curated, including quantity of boxes to be submitted to the San Diego Archaeological Center (SDAC). How many personnel were required? How many Native American monitors were present?
2. Preliminary results of data recovery and a definition of the size of the representative sample.
 - a. Were specialized studies performed? Please define types of artifacts to be collected and curated, including quantity of boxes to be submitted to the SDAC. How many personnel were required? How many Native American monitors were present?
3. What resources were discovered during monitoring?
4. What is the landform context and what is the integrity of the resources?
5. What additional studies are necessary?
6. Based on application of the California Register criteria, what is the significance of the resources?
 - a. If the resource is eligible for the California Register, can the resource be avoided by construction?
 - b. If not, what treatment (mitigation) measures are proposed? Please define data to be recovered (if necessary) and what material will be submitted to the SDAC for curation. Are any specialized studies proposed?

(After the first invoice, not all the above information needs to be re-stated, just revise as applicable).

ATTACHMENT F
INTENTIONALLY LEFT BLANK

ATTACHMENT G
EVALUATION AND SELECTION CRITERIA

ATTACHMENT G

EVALUATION AND SELECTION

Proposals will be ranked according to the criteria described below:

1. Addenda to this RFP – Pass / Fail

- 1.1. The Proposer shall acknowledge each addendum issued in connection with this RFP, by listing all issued addenda on an Addenda Acknowledgement sheet to be submitted with the Proposal. Failure to acknowledge all issued addenda may result in the Proposal being considered **non-responsive** and ineligible for further consideration.
- 1.2. Including copies of addenda with the Proposal shall not constitute acknowledgement of issued addenda.

2. Proposer Exceptions to this RFP – Pass / Fail

- 2.1. If the Proposer takes exception to any portion of the contract terms, the Proposer must identify and explain to the City in writing the basis for the exception. The Proposer must submit any claimed exception a minimum of 10 calendar days prior to the due date for submission of Proposals. Exceptions taken after the submission period for this RFP may be cause for rejection of the Proposal as being **non-responsive**.

3. Summary of Proposal (10 Points Max)

- 3.1. Each Proposer must submit a one to two page summary of its Proposal.

4. Project Team (15 Points Max)

- 4.1. Describe the proposed management plan for this Project. Describe the qualifications of key proposed construction and technical personnel, and subcontractors, from applicable fields including the following:
 - 5.1.1 Civil
 - 5.1.2 Environmental
 - 5.1.3 Geotechnical
 - 5.1.4 Corrosion

5. Technical Approach and Design Concept (35 Points Max)

- 5.1. Describe in detail the proposed design concept for this Project. Include detailed descriptions, conceptual design drawings, schematics, a list of major equipment, and any other information deemed necessary to allow the City to make an informed evaluation of the Proposer's technical approach. The completeness and technical merit of the design concept will be evaluated.

The following elements shall be included in this Technical Proposal:

- 5.2.1. Pipeline alignment, sizes and locations of appurtenances.
- 6.2.2. Traffic Control Approach - The Design-Builder shall describe its general approach to developing a traffic control and local access management plan (Traffic Control Plan).
- 6.2.3. Quality Assurance/Quality Control Plan (QA/QC Plan) - The Design-Builder shall submit a QA/QC Plan specifically developed for this Project. The Design-Builder's QA/QC Plan shall comply with the City's Quality Assurance/Quality Control Plan Guidelines (see attached Contract for Guidelines). The QA/QC Plan shall describe the tools, process, and resources the Design-Builder shall use to ensure that it provides facilities that meet the requirements of the Contract.
- 6.2.4. Paving Restoration.
- 6.2.5. Water highlining plan for each site
- 6.2.6. Phasing of design and construction work of each site separately
- 6.2.7. Curb Ramp Design and Installation plan pursuant to the ADA Preliminary Engineering report (part of the bridging documents) and highlight any Modification, if any.
- 6.2.8. Phasing and Coordination with Adjacent Projects
- 6.2.9. Storm Water Pollution Control Best Management Practices.
- 6.2.10. Subsurface Investigation and Geotechnical Work.
- 6.2.11. Proposed Design Schedule: Outline the proposed design schedule, including sequencing of each major design component (60%, 100%, Final Design) and proposed durations.
- 6.2.12. Estimate the following quantities amounts need to complete our entire project, per your proposed design and construction methods. Quantities will only be used to evaluate the Technical Portion of the RFP. The actual quantities will vary during the actual design and construction of the project:
 - 1) Additional Bedding - __CY
 - 2) Imported Backfill - __TON
 - 3) Asphalt Pavement Repair - __SF
 - 4) Additional Curb & Gutter - __LF
 - 5) Additional Sidewalk Removal & Replacement - __SF
 - 6) Additional Pavement Removal & Disposal - __CY

6. Construction Plan (40 Points Max)

- 6.1.** Describe the proposed construction plan for this Project, including the following, at a minimum:
 - 6.1.1.** Construction approach and methods
 - 6.1.2.** Plan for operation of facility during construction

- 6.1.3. Plan for phasing of construction activities
- 6.1.4. General plan for functional testing and start-up.
- 6.1.5. Proposed safety program
- 6.1.6. Proposed emergency response plan
- 6.1.7. Water highlining plan for each site
- 6.1.8. Phasing of design and construction work of each site separately
- 6.1.9. Proposed construction schedule
- 6.1.10. Traffic Control Management
- 6.1.11. Community Impact

TOTAL POINTS: 100

7. Review of Technical Proposal

- 7.1. Following the receipt of the Technical Proposal, the City anticipates allotting 2 weeks for review of the Technical Proposals.

8. Final Selection Based On Adjusted Low Proposal

- 8.1. The ranking of each Design-Builder during the Technical Proposal review and the interviews will serve as the divisor of the Price Proposal and determine the weighted price.
- 8.2. Following review of the Technical Proposals and the presentations/interviews, the resulting qualitative evaluation scores will be totaled, averaged and converted to a decimal. The Proposal price will then be divided by the scores from the Technical Proposals. This becomes the Adjusted Low Proposal. The lowest adjusted proposal will be recommended for contract award. The adjustment to the Price Proposal is for selection purposes only. The Price Proposal as submitted is the actual Contract Price.
- 8.3. The following example illustrates the process:

Design-Builder	Qualitative Score (100 Maximum)	Price Proposal	Adjusted Price *
A	0.85	\$1,000,000.00	\$1,176,471
B	0.95	\$1,300,000.00	\$1,368,421
C	0.65	\$900,000.00	\$1,384,615
* The adjustment to the Proposal is for selection only. Firm "A" has Adjusted Lowest Proposal. The Price Proposal is the actual Contract amount.			

ATTACHMENT H
PRICE FORMS

PRICE PROPOSAL FORMS

The Design-Builder agrees to the design and construction of **AC Water and Sewer Group 1024**, for the City of San Diego, in accordance with these contract documents for the lump sum price listed below. The Design-Builder guarantees the proposed prices for a period of 120 Days from the date Proposals are due. The duration of the price guarantee may be extended as required by mutual consent.

Item No.	NAICS CODE	Description	Quantity	D*	Unit	Unit Price	Extension
BASE PROPOSAL							
1	524126	Bonds (Payment and Performance)	1		LS	 	\$ 100,000 ⁻
2	541330	Engineering and Design Services	1	D	LS	 	\$ 1,000,000 ⁻
3	237110	Construction	1		LS	 	\$ 11,014,000 ⁻
4		City Contingency (EOC Type II)	1		AL	 	\$473,892
5	541330	WPCP Development	1	D	LS	 	\$ 2,000 ⁻
6	237990	WPCP Implementation	1		LS	 	\$ 136,000 ⁻
7	541370	Survey Services	1	D	LS	 	\$ 98,000 ⁻
TOTAL DESIGN-BUILD BASE PROPOSAL (ITEMS NO 1 THROUGH 7 INCLUSIVE):							\$ 12,823,892 ⁻


*** Design Element (For City Use)**

Total Price For Design-Build Proposal, (items 1 through 7, inclusive) amount written in words:

TWELVE MILLION, EIGHT HUNDRED TWENTY THREE THOUSAND, EIGHT HUNDRED NINETY TWO DOLLARS AND ZERO CENTS

Design-Builder: Orion Construction Corporation / Balboa Construction, Inc. J.V.

Title: President Orion Construction Corporation / President, Orion Construction, Inc. J.V.

Signature: 

The names of all persons interested in the foregoing proposal as principals are as follows:

Richard Dowsing and Fia Dowsing

IMPORTANT NOTICE: If Design-Builder or other interested person is a corporation, state secretary, treasurer, and manager thereof; if a co-partnership, state true name of firm, also names of all individual co-partners composing firm; if Design-Builder or other interested person is an individual, state first and last names in full.

NOTES:

- A. The Contract Price to be used in the selection process as described in Attachment G of the RFP will be determined by the base proposal alone
- B. After the selected Design-Builder has been determined, the City may, at its sole discretion, award the contract for the Base Proposal alone or for the Base Proposal plus one or more alternates.
- C. Proposals shall not contain any recapitulation of the Work. Conditional Proposals may be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.
- D. Subcontractors' License Numbers must be filled in. Failure to provide the information specified may deem the bidder **non-responsive**.
- E. Blank spaces must be filled in. The Design-Builder's failure to submit a price may render the Proposal non-responsive and ineligible for award.
- F. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.
- G. All extensions of the unit prices bid will be subject to verification by the City. In the case of conflict between the Product of the Quantity x Unit Price and the written Extension, the Product shall govern.
- H. In the case of conflict, between the sum of the Extensions and the Bid Total, the sum of the Extensions shall govern.

DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE PRICE PROPOSAL ONLY

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the Public Contract Code (PCC), The Design-Builder is to list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Design-Builder's total Bid. The Design-Builder is to list below the portion of the work which will be done by each Subcontractor. The Design-Builder is to list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed by the Subcontractor is to be stated for all Subcontractors listed. Failure to comply with the listing of the Subcontractors as specified may result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder is to list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, WoSB, SDB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	DIR Registration Number	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____							
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____							

① As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification.

DESIGN-BUILD NAMED EQUIPMENT/MATERIAL SUPPLIER LIST TO BE INCLUDED IN THE PRICE PROPOSAL ONLY

For credit calculations for City-funded contracts, see Chapter 11 in The WHITEBOOK. For non-City funded contracts, refer to the Funding Agency Provisions. If no indication of the supplier, manufacturer, or non-supplier is provided, listed firm will receive no credit for purpose of calculating the Subcontractor Participation Percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	DIR Registration Number	MATERIALS OR SUPPLIES	DOLLAR VALUE OF MATERIAL OR SUPPLIES	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB [Ⓞ]	WHERE CERTIFIED [Ⓞ]
Name: <u>Draves Pipeline</u> Address: <u>PO Box 1051</u> City: <u>Bonsall</u> State: <u>CA</u> Zip: <u>92003</u> Phone: <u>760-728-7094</u> Email: <u>dale@dravespipeline.com</u>	100006391	Materials	657,000	Y	N	DVBE	CADoGS
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____							

Ⓞ As appropriate, Design-Builder shall identify Vendor/Supplier as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

Ⓞ As appropriate, Design-Builder shall indicate if Vendor/Supplier is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification.

ATTACHMENT I

CERTIFICATIONS AND FORMS

The Proposer, by submitting its electronic proposal, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certifications, forms and affidavits submitted as part of this bid are true and correct.

Design-Build Proposal

1. The undersigned The Design-Builder proposes and agrees, if this Proposal is accepted, to enter into an agreement with the City in the form included in the Contract Documents to perform the Work as specified or indicated in said Contract Documents entitled **AC Water and Sewer Group 1024**.
2. The Design-Builder accepts all of the terms and conditions of the Contract Documents, including without limitation those in the RFP.
3. This Proposal will remain open for the period stated in the RFP unless otherwise required by law. The Design-Builder will enter into an agreement within the time and in the manner required in the RFP and will furnish the insurance certificates, Payment Bond, and Performance Bond required by the Contract Documents.
4. The Design-Builder has familiarized itself with the nature and extent of the Contract Documents, Work, site, locality where the Work is to be performed, the legal requirements (federal, state and local laws, ordinances, rules, and regulations), and the conditions affecting cost, progress or performance of the Work and has made such independent investigations as The Design-Builder deems necessary.

To all the foregoing, and including all Proposal schedule(s) and information required of the Design-Builder contained in this Proposal Form, said The Design-Builder further agrees to complete the Work and Services required under the Contract Documents within the Contract Time stipulated in said Contract Documents, and to accept in full payment therefore the Contract Price based on the Total Proposal Price(s) named in the aforementioned Proposal schedule(s).

Dated: November 28, 2017

The Design-Builder: Orion Construction Corporation / Balboa Construction, Inc. J.V.

By: 
(Signature)

Title: President, Orion Construction / President, Balboa Construction

PROPOSAL

Design-Builder's General Information

To the City of San Diego:

Pursuant to the "Request for Proposal", specifications, and requirements on file with the City Clerk, and subject to all provisions of the Charter and Ordinances of the City of San Diego and applicable laws and regulations of the United States and the State of California, the undersigned hereby proposes to furnish to the City of San Diego, complete at the prices stated herein, the items or services hereinafter mentioned. The undersigned further warrants that this proposal is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the proposal is genuine and not collusive or sham; that the proposer has not directly or indirectly induced or solicited any other proposer to put in a false or sham proposal, and has not directly or indirectly colluded, conspired, connived, or agreed with any proposer or anyone else to put in a sham proposal, or that anyone shall refrain from proposing; that the proposer has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the proposal price of the proposer or any other proposer, or to fix any overhead, profit, or cost element of the proposal price, or of that of any other proposer, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the proposal are true; and, further, that the proposer has not, directly or indirectly, submitted his or her proposal price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, proposal depository, or to any member or agent thereof to effectuate a collusive or sham proposal. The undersigned proposer(s) further warrants that proposer(s) has thoroughly examined and understands the entire Contract Documents (plans and specifications) and the Proposal Documents therefore, and that by submitting said Proposal Documents as its proposal, proposer(s) acknowledges and is bound by the entire Contract Documents, including any addenda issued thereto, as such Contract Documents incorporated by reference in the Proposal Documents.

IF A SOLE OWNER OR SOLE CONTRACTOR SIGN HERE:

- (1) Name under which business is conducted _____
- (2) Signature (Given and surname) of proprietor _____
- (3) Place of Business (Street & Number) _____
- (4) City and State _____ Zip Code _____
- (5) Telephone No. _____ Facsimile No. _____
- (6) Email Address _____

(4) Place of Business (Street & Number): 2185 La Mirada Drive
(5) City and State: Vista, CA Zip Code: 92081
(6) Telephone No. 760-597-9660 Facsimile No. 760-597-9661
(7) Email Address: Richard.dowsing@orionconstruction.com

THE FOLLOWING SECTIONS MUST BE FILLED IN BY ALL PROPOSERS:

In accordance with the "Request for Proposal", the proposer holds a California State Contractor's license for the following classification(s) to perform the work described in these specifications:

LICENSE CLASSIFICATION A

LICENSE NO. 788132 EXPIRES 11/30/18

DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION NUMBER: 1000015426

This license classification must also be shown on the front of the proposal envelope. Failure to show license classification on the proposal envelope may cause return of the proposal unopened.

TAX IDENTIFICATION NUMBER (TIN): [REDACTED]

E-Mail Address: Richard.dowsing@orionconstruction.com

THIS PROPOSAL MUST BE NOTARIZED BELOW:

I certify, under penalty of perjury, that the representations made herein regarding my State Contractor's license number, classification and expiration date are true and correct.

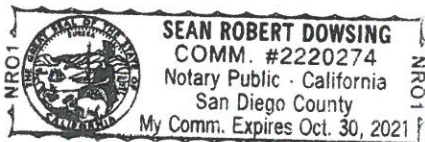
Signature *Richard Dowsing / Sean Robert Dowsing* Title: President-Orion/President-Balboa

SUBSCRIBED AND SWORN TO BEFORE ME, THIS: 28th DAY OF: November, 2017.

Notary Public in and for the County of San Diego, State of California

[Signature]

(NOTARIAL SEAL)



PERFORMANCE BOND AND LABOR AND MATERIAL MEN'S BOND

FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:

Orion Construction Corporation/Balboa Construction Inc., a corporation, as principal, and Western Surety Company, a corporation authorized to do business in the State of California, as Surety, hereby obligate themselves, their successors and assigns, jointly and severally, to The City of San Diego a municipal corporation in the sum of **Twelve Million Eight Hundred Twenty Three Thousand Eight Hundred Ninety Two Dollars and Zero Cents (\$12,823,892.00)** for the faithful performance of the annexed contract, and in the sum of **Twelve Million Eight Hundred Twenty Three Thousand Eight Hundred Ninety Two Dollars and Zero Cents (\$12,823,892.00)** for the benefit of laborers and materialmen designated below.

Conditions:

If the Principal shall faithfully perform the annexed contract **AC Water and Sewer Group 1024**, Proposal (RFP) Number **K-18-1561-MAC-3**, San Diego, California then the obligation herein with respect to a faithful performance shall be void; otherwise it shall remain in full force.

If the Principal shall promptly pay all persons, firms and corporations furnishing materials for or performing labor in the execution of this contract, and shall pay all amounts due under the California Unemployment Insurance Act then the obligation herein with respect to laborers and materialmen shall be void; otherwise it shall remain in full force.

The obligation herein with respect to laborers and materialmen shall inure to the benefit of all persons, firms and corporations entitled to file claims under the provisions of Article 2. Claimants, (iii) public works of improvement commencing with Civil Code Section 9100 of the Civil Code of the State of California.

Changes in the terms of the annexed contract or specifications accompanying same or referred to therein shall not affect the Surety's obligation on this bond, and the Surety hereby waives notice of same.

PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND (Cont.)

The Surety shall pay reasonable attorney's fees should suit be brought to enforce the provisions of this bond.

Dated February 22, 2018

Approved as to Form

Orion Construction Corporation/Balboa Construction Inc.

Principal

By 

Richard Dowsing, President / Fia Dowsing, President
Printed Name of Person Signing for Principal

Mara W. Elliott, City Attorney

By 

Deputy City Attorney

Western Surety Company

Surety

By 

María Guise, Attorney-In-fact

Approved:

By 

James Nagelvoort
Director

Department of Public Works

1455 Frazee Road, Suite 300

Local Address of Surety

San Diego, CA 92108

Local Address (City, State) of Surety

(619) 682-3510

Local Telephone No. of Surety

Premium \$ 106,961.00

Premium subject to adjustment based on final contract price.

Bond No. 30028323

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.

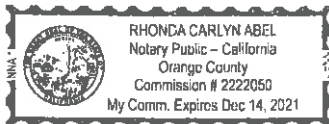
State of California)
County of Orange)

On FEB 22 2018 before me, Rhonda Carlyn Abel, Notary Public
Date Here Insert Name and Title of the Officer
personally appeared Maria Guise
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.



Signature *Rhonda Carlyn Abel*
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: _____ Document Date: _____
Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____
 Corporate Officer — Title(s): _____
 Partner — Limited General
 Individual Attorney in Fact
 Trustee Guardian or Conservator
 Other: _____
Signer Is Representing: _____

Signer's Name: _____
 Corporate Officer — Title(s): _____
 Partner — Limited General
 Individual Attorney in Fact
 Trustee Guardian or Conservator
 Other: _____
Signer Is Representing: _____

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Michael D Parizino, Rhonda C Abel, James A Schaller, Jeri Apodaca, Maria Guise, Rachelle Rheault, Kim Luu, Individually

of Newport Beach, CA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 7th day of January, 2016.



WESTERN SURETY COMPANY

Paul T. Brufat
Paul T. Brufat, Vice President

State of South Dakota }
County of Minnehaha } 35

On this 7th day of January, 2016, before me personally came Paul T. Brufat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires
June 23, 2021



J. Mohr
J. Mohr, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 22nd day of February, 2018.



WESTERN SURETY COMPANY

L. Nelson
L. Nelson, Assistant Secretary

**NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID UNDER 23
UNITED STATES CODE 112 AND PUBLIC CONTRACT CODE 7106**

State of California

County of San Diego

The bidder, being first duly sworn, deposes and says that he or she is authorized by the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that 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, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that 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, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

CONTRACTOR CERTIFICATION

DRUG-FREE WORKPLACE

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-17 regarding Drug-Free Workplace as outlined in the WHITEBOOK, Section 7-13.3, "Drug-Free Workplace", of the project specifications, and that;

This company_has in place a drug-free workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of subdivisions a) through c) of the policy as outlined.

CONTRACTOR CERTIFICATION

AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-4 regarding the American With Disabilities Act (ADA) outlined in the WHITEBOOK, Section 7-13.2, "American With Disabilities Act", of the project specifications, and that:

This company has in place workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of the policy as outlined.

CONTRACTOR CERTIFICATION

CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

I declare under penalty of perjury that I am authorized to make this certification on behalf of the company submitting this bid/proposal, that as Contractor, I am familiar with the requirements of City of San Diego Municipal Code § 22.3004 regarding Contractor Standards as outlined in the WHITEBOOK, Section 7-13.4, ("Contractor Standards"), of the project specifications, and that Contractor has complied with those requirements.

I further certify that each of the Contractor's subcontractors whose subcontracts are greater than \$50,000 in value has completed a Pledge of Compliance attesting under penalty of perjury of having complied with City of San Diego Municipal Code § 22.3004.

CONTRACTOR CERTIFICATION

Equal Benefits Ordinance Certification

I declare under penalty of perjury that I am familiar with the requirements of and in compliance with the City of San Diego Municipal Code § 22.4300 regarding Equal Benefits Ordinance.

AFFIDAVIT OF DISPOSAL

(To be submitted upon completion of Construction pursuant to the contracts Certificate of Completion)

WHEREAS, on the _____ DAY OF _____, 2____ the undersigned entered into and executed a contract with the City of San Diego, a municipal corporation, for:

AC Water and Sewer Group 1024
(Name of Project)

as particularly described in said contract and identified as Bid No. **K-18-1561-MAC-3** SAP No. (WBS/IO/CC) **B-16082, B-16083**; and **WHEREAS**, the specification of said contract requires the Contractor to affirm that "all brush, trash, debris, and surplus materials resulting from this project have been disposed of in a legal manner"; and **WHEREAS**, said contract has been completed and all surplus materials disposed of:

NOW, THEREFORE, in consideration of the final payment by the City of San Diego to said Contractor under the terms of said contract, the undersigned Contractor, does hereby affirm that all surplus materials as described in said contract have been disposed of at the following location(s)

and that they have been disposed of according to all applicable laws and regulations.

Dated this _____ DAY OF _____, _____.

By: _____
Contractor

ATTEST:
State of _____ County of _____

On this _____ DAY OF _____, 2____, before the undersigned, a Notary Public in and for said County and State, duly commissioned and sworn, personally appeared _____ known to me to be the _____ Contractor named in the foregoing Release, and whose name is subscribed thereto, and acknowledged to me that said Contractor executed the said Release.

Notary Public in and for said County and State

CONTRACTORS CERTIFICATION OF PENDING ACTIONS

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against the Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

CHECK ONE BOX ONLY.

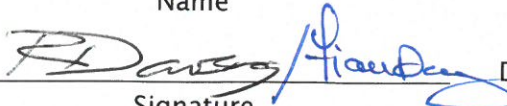
The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.

The undersigned certifies that within the past 10 years the Bidder has been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers. A description of the status or resolution of that complaint, including any remedial action taken and the applicable dates is as follows:

DATE OF CLAIM	LOCATION	DESCRIPTION OF CLAIM	LITIGATION (Y/N)	STATUS	RESOLUTION/REMEDIAL ACTION TAKEN

Contractor Name: Orion Construction Corporation / Balboa Construction, Inc. J.V.

Certified By Richard Dowsing / Fia Dowsing Title: President, Orion/President, Balboa
Name

 Date: November 28, 2017
Signature

USE ADDITIONAL FORMS AS NECESSARY

ATTACHMENT J
MACC TASK ORDER DESIGN-BUILD AGREEMENT

MACC TASK ORDER DESIGN-BUILD AGREEMENT

This Design-Build agreement [Contract] is made and entered into this 20th day of April, 2018, by and between The City of San Diego [City], a municipal corporation, and Orion Construction Corporation/Balboa Construction Inc. [Design-Builder], for the purpose of designing and constructing the **AC Water & Sewer Group 1024** (Project) in the amount of **(\$12,823,892.00)**. The City and Design-Builder are referred to herein as the "Parties".

RECITALS

- A. The City desires to construct the Project located in the City of San Diego, California.
- B. The City desires to contract with a single entity for design and construction of the Project, as set forth in this Agreement.
- C. The City has issued Request for Proposal (RFP) number **K-18-1561-MAC-3** for **AC Water & Sewer Group 1024**, pursuant to which the City solicited Proposals from design-build teams to design, rehabilitate, and build the Project.
- D. In accordance with City's RFP, Design-Builder submitted a Proposal for the Project and is prepared to enter into this Agreement.
- E. The City has selected the Design-Builder to perform, either directly or pursuant to Subcontracts, hereinafter defined, the design, engineering, and construction services set forth in this Agreement and the Contract Documents, hereinafter defined.
- F. The Design-Builder is ready, willing, and able to perform the services required in accordance with the terms and conditions of this Agreement.
- G. Execution of this Agreement by the Design-Builder is a representation that the Design-Builder has visited the Site, become familiar with the local conditions under which the Work is to be performed and correlated personal observations with requirements of the Contract Documents.

In consideration of the above recitals and the mutual covenants and conditions set forth herein, and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby set forth their mutual covenants and understandings as follows.

AGREEMENT

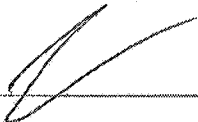
- A. Recitals and Attachments. The above referenced recitals are true and correct and are incorporated into this Agreement by this reference. All attachments referenced in this Agreement section are incorporated into the Contract by this reference.
- B. Contract Performance. The Design-Builder shall design and construct the Project in a good and workmanlike manner to the satisfaction of the City, lien free and in compliance with the Contract Documents and within the time specified, in return for timely payment by the City in accordance with the Contract.
- C. Attachments. All attachments e.g., Reference Standards in the RFP, Supplementary Special Provisions (SSP), the attached Faithful Performance and Payment Bonds, Agreement and Supplemental Agreements, and the attached Proposal included in the Proposal documents by the Contractor are incorporated into the Contract by this reference.
- D. Contract Documents. This Contract incorporates the 2012 Edition of the Standard Specifications for Public Works Construction [The GREENBOOK], including amendments set forth in the 2012 edition of the San Diego Specifications for Public Works Construction [The WHITEBOOK]. The Contract Documents shall include the items mentioned in section 2-5.2 of The WHITEBOOK and shall follow that order of precedence.

IN WITNESS WHEREOF, this Agreement is signed by the City of San Diego, acting by and through its Mayor or designee, pursuant to Municipal Code §22.3102 authorizing such execution.

THE CITY OF SAN DIEGO

APPROVED AS TO FORM

Mara W. Elliott, City Attorney

By: 

By: 

Print Name: James Nagelvoort
Director
Department of Public Works

Print Name: Pedro De Lara, Jr.
Deputy City Attorney

Date: 4-4-18

Date: 4/20/18

CONTRACTOR

By:  / 

Print Name: RICHARD DOWSING / FIA DOWSING

Title: PRES - ORION / PRES - BALBOA

Date: 02/23/2018

City of San Diego License No.: ORION-B1992002970

BALBOA-
B1998008128

State Contractor's License No.: 788132



City of San Diego

Request for Proposal for

MACC Task Number: 08

AC Water and Sewer Group 1024

Proposal No. K-18-1561-MAC-3

November 29, 2017



Harris & Associates®



Proposer Information

Prime Contractor

Orion Construction Corp./Balboa Construction, Inc. J.V.
Legal Form: Joint Venture
Parent Company: N/A
2185 La Mirada Drive
Vista, CA 92081
Contact: Rob Wilson, Vice President
Email: Rob@orionconstruction.com
Phone: (760) 597-9660
Contractor License: #788132, Class A, B
Expires: 11/30/2018
Licensed Since: 11/30/2000
103 employees in SD County

Joint Venture Contractor

Orion Construction Corporation
2185 La Mirada Drive
Vista, CA 92081
29 years in SD County
103 employees in SD County
Contact: Richard Dowsing, President
Email: Richard@orionconstruction.com
Phone: (760) 597-9660
Contractor License: #549309, Class A, B, C-27, HAZMAT, Asbestos
Expires: 11/30/2018
City Business License #B1992002970

Joint Venture Contractor

Balboa Construction, Inc.
2647 Gateway Road Suite 105, #395
Carlsbad, CA 92009
Contact: Fia Dowsing
Email: fia@balboaconstruction.com
Phone: (760) 598-2160
Contractor License: #731286, Class A, B
Expires: 7/31/2017
City License #B1998008128
Office in San Diego County for 19 years

Design Partner

Harris and Associates
600 B Street, Suite 2000
San Diego, CA 92101
Contact: Gail Masutani, PE, PhD
Project Manager
Email: gail.masutani@weareharris.com
Phone: (619) 814-9509
California RCE #46733
Expires: 06/30/2017
Office in San Diego County: 18 Years
35 employees in SD County
City License #B1999005573

Section 1: Addenda to the RFP

Orion Construction Corporation / Balboa Construction Inc. (hereafter referred to as Orion) and our Design Partner Harris and Associates, acknowledge receipt of the following Addendums:

- Addendum 1 – November 6th, 2017
- Addendum 2 – November 14th, 2017
- Addendum 3 – November 15th, 2017

Section 2: Exceptions to the RFP

Orion and its Design Partner Harris and Associates take no exceptions to this RFP.

Section 3: Summary of Proposal

Orion Construction Corporation has teamed with our affiliate company Balboa Construction, Inc. in a Joint Venture. The Orion/Balboa J.V. was licensed by the State of California in 1997. For this project, Balboa will be providing equipment, onsite trucking, and haulage services. Orion will be the single point of contact with the City, and for this RFP, the J.V. Contractor will be referred to as “Orion.” Orion recognizes that the project will require in-depth local construction knowledge and specific engineering design expertise to meet the City’s project requirements. Orion will utilize its company-owned construction yards to support this task order in its three locations. **Orion’s contractor led, fully integrated design-build engineering and construction team is the best approach to provide the City with the successful completion of Group Job 1024.**

Project Team

Construction Team

Jason Danks will serve as the project manager. He was chosen for his past experience and recent work constructing large design-build utility infrastructure projects for the City of San Diego. Jason has been a project manager on fifteen City of San Diego Design Build Group Jobs. Jason’s team will consist of **Jason Arme**, a seasoned specialist in both water and sewer pipeline projects, and **Scott Vargas**, a long time Orion superintendent with numerous completed City of San Diego D/B Group Jobs and Utility Infrastructure projects. Jason’s team brings an unparalleled level of experience to the project, experience that will ensure that construction impacts on the community are mitigated to the maximum extent possible.

Design Team

Gail Masutani, of Harris and Associates, will serve as the lead design engineer for this task order. Orion has a long history with Harris, having completed 13 City Design-Build projects valued at over \$50 million. Orion and Harris have proposed the same management team that has completed many of these projects. Orion and Harris also recognize the importance of proactive communication with the community and have included our long term ELBE partner firm Humanability as the community outreach lead for this project.

Design Approach

Orion’s approach will integrate the construction requirements, moratorium windows, and other important elements of the construction into the conceptual design early in the process. The design will focus on the neighborhoods as three independent sites. Orion’s Project Manager Jason Danks and Harris’ Civil Engineer, Jason Caprio, personally went to each of the three sites in preparation of this proposal. By doing so, they have captured and incorporated both the engineering and constructability reviews into the proposal phase, providing the City with an accurate concept and best value for this project. **These site visits led the Orion team to find and correct inherent deficiencies included in the RFP such as increasing the length of the parallel main on Braddock Street from Map 2 to comply with City guidelines.** Orion will identify and incorporate permit requirements and coordinate with local service agencies such as fire, police, local schools, and waste disposal for access impacts. The Orion team will collaborate through the design and construction phases to minimize overall impacts to the project and surrounding residents. The team has already conducted extensive field investigations and community outreach to incorporate stakeholder input into this proposal. Orion will take additional care to coordinate with adjacent City projects.

Construction Approach

Orion has incorporated our best construction methods into this proposal by involving our construction staff from Project Management on to the Superintendent levels as early as the proposal phase. This preparation allows our designers and constructors to come up with creative solutions to efficiently solve challenges. It has allowed the team to validate the RFP while simultaneously gathering in-depth knowledge about the project. This includes the close coordination with the existing contractor in the area and the boring progress under the MTS Right of Way for SDGE. Orion has already completed preliminary boring layouts and adjustments necessary based on current field conditions if successful on this solicitation. Orion has identified five phases of work to complete the three project sites. By actively assigning the phases early, Orion will be able to accelerate the project and optimally sequence the construction. **In doing so, Orion will minimize the impact to the residents and neighborhood schools while completing our work in safe, clean, and efficient manner.** Orion will develop well-coordinated, public outreach and a project specific safety plan. The safety plan will identify safe passage for the public during construction activities and place special attention to the safety of vehicles, pedestrians, children, and special needs residents.

Public Outreach

Orion has taken a proactive public outreach approach. Orion has identified and met with numerous community stakeholders to get a solid understanding the project's impact on the community. Orion has incorporated these findings into the construction phasing and traffic control approaches. **Orion conducted direct outreach to the residents to engage the community during the proposal phase.** This outreach helped Orion incorporate pedestrian site lines and traffic approaches that benefit the community into this proposal, well before the typical project outreach. Orion has also performed similar outreach on four separate projects in the recent past, in the exact same neighborhoods and we have incorporated the lessons learned into this project proposal.

Small Business

Orion's long-standing project history with the City has facilitated an understanding, appreciation, and commitment to meeting or exceeding the City's goals for supporting SLBE/ELBE and disabled veteran business enterprises (DVBE). We received the 2012 Prime Contractor of the Year Commendation from the previous City of San Diego Mayor, Jerry Sanders, for consistently meeting and/or exceeding subcontracting goals and serving in the City/AGC Mentor Protégé Program. Orion continues to this day to Mentor up and coming small business contractors both formally and informally, helping the overall construction community within San Diego achieve greater diversity. We have selected City of San Diego Approved SLBE/ELBE/DVBE's to support our work on this project and have exceeded the mandated minimum.



**Richard Dowsing, President
Orion Construction Corporation**

Section 4: Project Team

Project Team Overview

This team brings to the City of San Diego local, highly reputable, and experienced design-builders that provide the same quality design, construction, and attention to client service that has been a goal and hallmark of Orion’s past city projects. Orion has worked with Harris for eight years, building together 13 D/B water and wastewater projects for the City, valued at over \$50 million. The core group of design and construction professionals that worked on these past collaborations is proposed on this project.

This team has extensive and direct local experience that is ideally suited to water and wastewater pipeline, design, and construction in metropolitan San Diego. Orion has recently completed City Design Build Pipeline Group Jobs 790, 743, 921, 922, and 926; totaling nearly \$19 million in project value. Orion also has the following ongoing D/B projects in various stages of design or construction: Group 1010/1005, Group 1019, Group 1029, Water and Sewer Group A, Catalina Cast Iron Main Replacement, and Meadowlark Water Main Replacement all totaling \$33 million. As shown in the table below, Orion’s current City projects align well with the projected schedule for the Group Job 1024 project. The design phases of these projects will be completed shortly and do not substantially overlap workloads needed for GJ 1024. Orion’s current construction phases will be substantially complete before the project is scheduled to proceed to construction.

Current Orion City of San Diego D/B Project Progress			
Project	Phase	Start	End
Catalina Cast Iron Main Replacement	Construction	5/31/2017	9/1/2018
Meadowlark Water-Main Replacement	Design	1/14/2016	1/15/18
Meadowlark Water-Main Replacement	Construction	1/16/2018	1/15/2019
Group Job 1019	Construction	11/21/17	7/1/18
Group Job 1029	Design	6/15/17	3/31/18
Group Job 1029	Construction	3/31/18	5/2/19
Water and Sewer Group A	Design	8/10/17	5/30/18
Water and Sewer Group A	Construction	5/31/18	11/25/19
AC Water and Sewer Group 1024	Design	1/9/18	2/12/19
AC Water and Sewer Group 1024	Construction	11/15/18	8/31/20

The following summarizes our key personnel to be assigned to the project, including relevant design and construction experience of each member. Key personnel available for assignment to this project are immediately available and committed to fulfilling their respective assignments for the full-term duration of the project.

Experience

- Over 30 years construction in San Diego area

Certifications/Registrations

- DBIA Trained Professional
- NAVFAC Quality Control Management Certified
- NAVFAC Site Health and Safety Officer Certified

Education

- BS – Civil Engineering - Union College



Project Director – Rob Wilson

Rob Wilson will serve as the Project Director. Rob is the Vice President of Orion and has over 30 years of local experience in the construction industry, almost 20 of these with Orion. He will provide senior corporate-level management to the project. Rob is fully versed in the Design-Build delivery method and is an active member of the DBIA community. Rob will monitor the design and construction teams, ensuring that Jason has all the available resources needed to complete this project successfully. Rob fulfills this role on all our City D/B projects, ensuring the continuity of quality service every time. Orion’s project management and executive staff conduct a comprehensive region-wide weekly progress meeting that discusses and addresses: project status, issues, staffing, and potential challenges on active projects. At these meetings, Jason will update Rob and the rest of Orion’s management team on the progress. Together, Rob and the rest of Orion’s management team will collaborate to identify potential internal and external issues that could affect the project and resolve or develop strategies for their resolution.

Experience

- Successful completion of 14 City of San Diego D/B projects
- 15 years of water infrastructure construction management

Certifications/Registrations

- DBIA Certified Professional
- NAVFAC Site Health and Safety Officer Certified
- OSHA 30 Hour
- HAZWOPER 40 Hour



Design-Build Project Manager –Jason Danks

The successful design and construction of this project centers on Orion’s Project Manager (PM), Jason Danks. Jason will serve as the day-to-day point of contact for the City of San Diego’s Project Manager. Jason has 20 years of construction experience, 15 of them with Orion, managing projects in the in City of San Diego and is Orion’s most capable project manager. He has served in his role as project manager on fifteen recent City of San Diego D/B and DBB Water and Sewer Replacement Group Jobs.

From the City Notice to Proceed through project completion, Jason will deliver a high-quality design with safe and prompt construction, while integrating City Staff comments, community feedback and providing coordination with other City projects and impacted public entities. Jason will be complemented by a fully integrated design and construction team that has consistently delivered successful projects on time and to the complete satisfaction of the City. Jason’s team members have been specifically selected for their attributes of being collaborative, adaptable, and proactive in dealing with all the challenges faced in a D/B project.

Experience

- Construction Manager for multiple large diameter steel pipeline projects in Southern California

Certifications/Registrations

- NAVFAC Quality Control Management Certified
- NAVFAC Site Health and Safety Officer Certified
- OSHA 30 Hour

Education

- Bachelor of Science - SDSU



Construction Manager- Jason Arme

Jason Arme will serve as the Construction Manager (CM). Jason has ten years of construction experience in water and waste water infrastructure. Jason’s experience includes design-bid-build and design-build projects with multiple Southern California Municipal and Federal clients. Jason recently completed two significant projects involving D/B water and storm water pipelines on Camp Pendleton and for the San Diego International Airport, the latter project being selected for the APWA project of the year 2016. Jason Arme has participated in the preparation of this proposal by physically reviewing design concepts onsite at each of the locations and will continue to do so during the design phase. During the construction phase, Jason will prepare and update the three-week look-ahead schedule, review and address community impacts and concerns, review day to day crew planning with the site superintendent, plan ahead to address potential impacts and issues, and address potential Public and worker safety concerns. He will report directly to Orion’s Project Manager. In preparation of this proposal, Jason Arme personally reviewed the project site conditions extensively and validated existing as-built information. He was an integral member of the team that came up with the proposal design concept. As a final check, he performed constructability reviews of the proposed design concept with Orion’s experienced field superintendents, incorporating their comments and ideas into preparing this response to the RFP.

Experience

- 25 years utility construction in SD

Certifications/Registrations

- NAVFAC Quality Control Management Certified
- NAVFAC Site Health and Safety Officer Certified
- OSHA 30 Hour
- Competent Person: fall protection, scaffolding, trench shoring and excavation, confined space
- First Aid and CPR



Superintendent – Scott Vargas

Scott has over 25 years of experience in utility construction in San Diego, 21 of which with Orion. Scott is a Senior Superintendent with Orion and has constructed numerous water and sewer pipeline replacements in the City of San Diego. Scott brings valuable real-world construction experience into the design phase. He provides valuable insights and assists the D/B team in bringing the project from a concept, through design, and into a finished functioning system. As superintendent, Scott recently completed the City of San Diego Design Build Scripps Ranch Pump Station, which won the 2014 APWA Outstanding Project Award, and the APWA 2016 Project of the Year: NSU Storm Drain Trunk for the San Diego Airport Authority. Scott has worked on numerous projects involving deep excavations for pipeline installation and has extensive experience performing all types of work that will be required for the GJ 1024 project.

Certifications/Registrations

- NAVFAC Quality Control Management Certified
- NAVFAC Site Health and Safety Officer Certified
- OSHA 30 Hour
- HAZWOPER 40 Hour

Education

- BS Civil Engineering – McGill University



QA/QC Manager – Heidi Andrews

Heidi will serve as the overall Project QA/QC Manager and Permit Engineer. She will ensure that all design QA/QC from Harris' internal program is incorporated into the final design and all City review comments are addressed formally. She is responsible for the follow-on QC from the design into the construction phase. Heidi has over 20 years of experience in water/wastewater infrastructure construction, 15 of them with Orion. She is a well-rounded professional construction executive versed in all aspects of D/B project delivery. She is a NAVFAC trained and certified quality control manager. She was the quality control manager and permitting engineer for the DBIA Award Winning Orion Design-Build La Bonita Park Water Facilities Project and this year's APWA Water Utility Project of the Year completed at the San Diego Airport by Orion. Heidi will develop the project's comprehensive Quality Control Plan (QC Plan), oversee its execution, and adherence contract requirements. Heidi will also provide project-wide Quality Assurance to the designer's own internal quality control program, and work closely with Orion's Design and Construction team members to provide additional oversight, to ensure that the overall plan is implemented.

Section 5.1.1 Civil: Design Project Manager – Gail Masutani, PE, PhD

Gail has over 25 years of civil engineering experience involving water and wastewater infrastructure design, including transmission mains, distribution pipelines, pressure reducing stations, pump stations, and water distribution planning. Gail has managed the successful delivery of many projects with the City of San Diego in recent years. She understands the City's requirements for quality, budget and schedule management, and has a demonstrated ability to coordinate teams to deliver on those expectations. Gail's relevant experience includes managing the design phase for several Orion led D/B projects for the City of San Diego which most recently include: Catalina Boulevard 12-inch Cast Iron Water Main Replacement with 24-inch CML&C, AC Water and Sewer Job 1010/1005, and Sewer Group Job 743.

Certifications/Registrations

- Professional Engineer CA #46733
- Member of ASCE Pipeline and Environmental Group (Board of Directors), Water Environment Federation

Education

- BS, Civil Engineering, UC Los Angeles
- MS, Civil Engineering, UC Los Angeles
- PhD, Civil Engineering, UC Los Angeles



Harris & Associates®

Certifications/Registrations

- Professional Engineer CA #74783

Education

- BS, Civil Engineering, UC Irvine



Harris & Associates.

Civil Engineer – Jason Caprio, PE

Jason has over 12 years of experience performing engineering design, construction, and project management and administration of water and sewer infrastructure projects. Jason’s responsibilities and past projects involve sewer mains, wastewater treatments plants, storm drains, roadway and streetscape improvements, and ADA compliance. Jason was the lead designer for several City of San Diego Design-Build projects such as the AC Water and Sewer Group Job 1001. Jason identified many design concepts during the proposal phase for Group Job 1024. He visited each site with Orion staff members to address the feasibility of construction at each location, resulting in the best value solution to the project.

Experience

- 16 Years environmental science and planning
- Permit Coordinator with USACE, USFWS, CCC, CDFW, and RWQCB

Education

- Environmental Studies, USD



Harris & Associates.

Section 5.1.2 Environmental: *Environmental Compliance Officer – Diane Sandman, AICP*

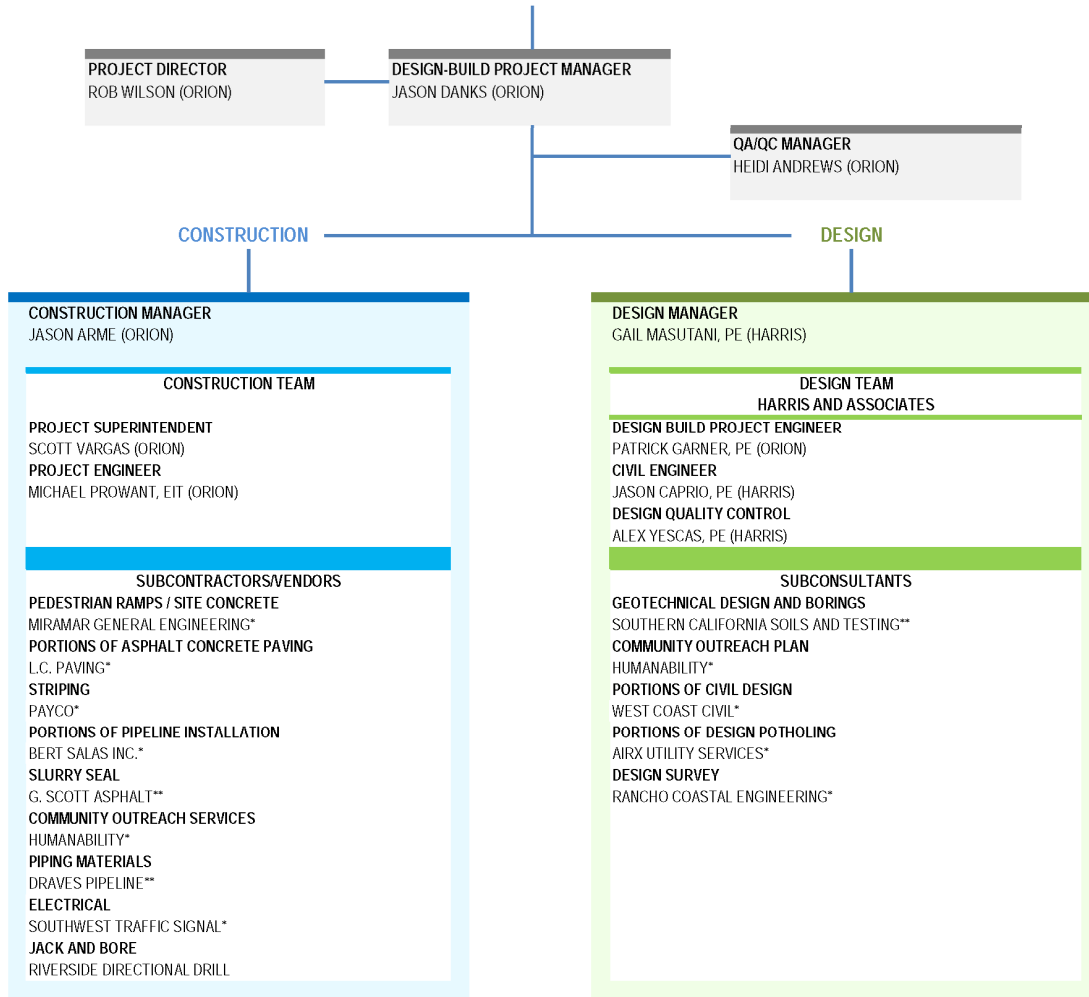
Diane Sandman has 16 years of experience in environmental sciences and planning. She has worked extensively on California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) compliance documents, including environmental impact reports (EIRs) and Mitigated Negative Declarations (MNDs) for numerous recent City of Vista, water/sewer and master plan projects. Diane has been responsible for permitting coordination with resource agencies including the US Army Corps of Engineers (USACE), US Fish and Wildlife Service (USFWS), California Coastal Commission (CCC), California Department of Fish and Wildlife (CDFW), and the San Diego Regional Water Quality Control Board (RWQCB).



Section 5.1.3 Geotechnical: *Geotechnical Engineering and Testing – Southern California Soils and Testing (SCST)*

SCST was established in 1959 and serves both the public and private sectors. Orion and its design partner, Harris and Associates, have a long-standing relationship with SCST. The firms have collaborated on all types of design-build construction including municipal and federal institutions and utility infrastructure for over ten years.

Section 5.1.4 Corrosion: We will follow City standards for the protection of buried ductile iron fittings using corrosion resistant coatings or petroleum wax tape wrap per AWWA C-217. No Special corrosion engineering was required for the remainder project.



LEGEND
*City of San Diego SLBE/ELBE Certified
** DBBE Certified

Figure 1 – Org Chart

Section 5: Technical Approach and Design Concept

5.1 Design Concept Overview

The RFP separates the AC Water and Sewer Group 1024 into three discreet project areas. Each area is represented by a respective map number. Map 1 covers the Mountain View neighborhood. Map 2 includes pipe throughout the Encanto neighborhood. Map 3 includes portions of the Skyline neighborhood. The design for each of these areas will be approached in a systematic manner, beginning with a thorough review of the following documents:

- Bridging documents and the RFP with all addenda.
- City water, sewer, right-of-way, and GIS data from SANGIS and SPLASH databases.
- Water and sewer GATE Book Infrastructure Atlas Maps.
- Aerial Orthophotography.
- Memorandum from multiple site visits by the design and construction teams, including measurements, photographs, and discussions with community members and leaders.
- Utility company record drawings.
- Planning studies from related CIP projects for potential impacts to this project.

Orion will utilize the following proven design process to complete the Group 1024 project:

- **Kickoff Meeting** – Orion will use the City kickoff meeting to reaffirm our understanding of the City’s expectations, review schedule, discuss/answer questions, and assign action items.
- **Data Gathering** – Following the **Kickoff Meeting**, Orion will identify required information that was not included in the RFP, request additional information and as-built drawings from the appropriate utility agencies such as SDG&E, ATT, CATV, etc.
- **Design Survey** – During the **Data Gathering**, Orion will develop the design survey with its selected sub-consultant. The surveyor will pick up, and incorporate into the survey, additional surface and subsurface information requested by the Design Team.
- **Base Mapping** – Using the **Design Survey** and information obtained during the **Data Gathering**, the Team will develop the project Base Mapping which includes all existing facilities pertinent to the project design and construction.
- **Field Investigation and Potholing** – The Construction Team will use the RFP provided Base Map to evaluate the construction corridor, identify utilities to pothole during the design phase, and identify and address construction challenges, and provide feedback to the Design Team.
- **Design Concept** – Based on the **Field Investigations**, Orion’s Construction Team will coordinate with the Design Team to develop a conceptual design that will minimize public, traffic, and environmental impacts during construction.
- **Community Relations** – The Community Relations Plan will be developed during the design phase. It will identify stakeholders, include a schedule for holding community meetings, and milestones preparing/distributing door hangers.
- **Basis of Design** – The Design Team will develop a Basis of Design Report (BODR). The BODR will include the current project description, design calculations, requested deviations from City Standards, ADA curb ramp compliance, permit requirements, and project schedule.
- **Geotechnical Investigation** – using the **Design Concept** the Design Team will coordinate with the Geotechnical Engineer to perform the Geotechnical Investigation and prepare the Geotechnical Report with recommendations.

- **Design Submittal** – Utilizing the **Geotechnical Report** recommendations, **Design Concept**, and **BODR** the Design Team will prepare the design submittal. Each design submittal will include the information required for the level of submittal (60%, 100%, Final).
- **Internal QA/QC Team** – Prior to all **Design Submittals**, Orion’s Design Build QA/QC Manager Heidi will oversee the review of the design submittals with the appropriate parties and ensure all issues and stakeholder comments are addressed.
- **Preconstruction** – Once the appropriate **Design Submittal** level is approved for construction (60% or 100%) by the City, Orion will submit the Project Safety Plan, SWPPP, SWQMP, traffic control plan, and request a Preconstruction meeting.
- **Construction** – Following the **Preconstruction** meeting, Orion will coordinate with our Community Relations sub-consultant to prepare and distribute door hangers, meet with appropriate residents and businesses, re-call for USA mark outs, obtain appropriate permits (traffic, noise), and initiate additional potholing and utility locating. Throughout construction, Orion will hold weekly construction meetings and coordinate with adjacent projects.
- **Post Construction / Startup** – Orion will address all of the City’s punch list items, implement appropriate startup measures and training, and prepare as-built drawings.

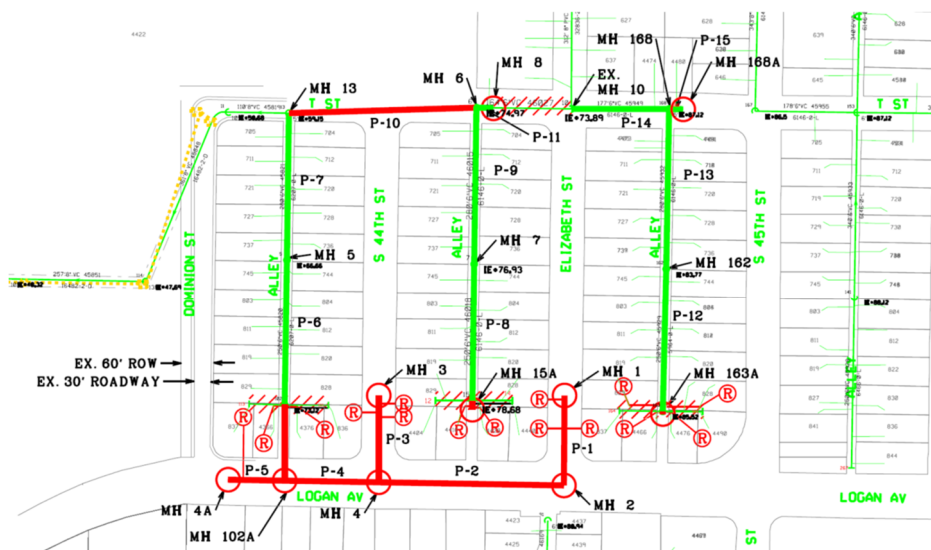
Map 1 – Mountain View

The proposed work on Map 1 is water pipeline and sewer main replacement within the Mountain View Neighborhood. This sewer work includes both new and replace-in-place sewer main alignments with some existing sewer abandonment. The affected neighborhood is single-family residential with localized commercial pockets.

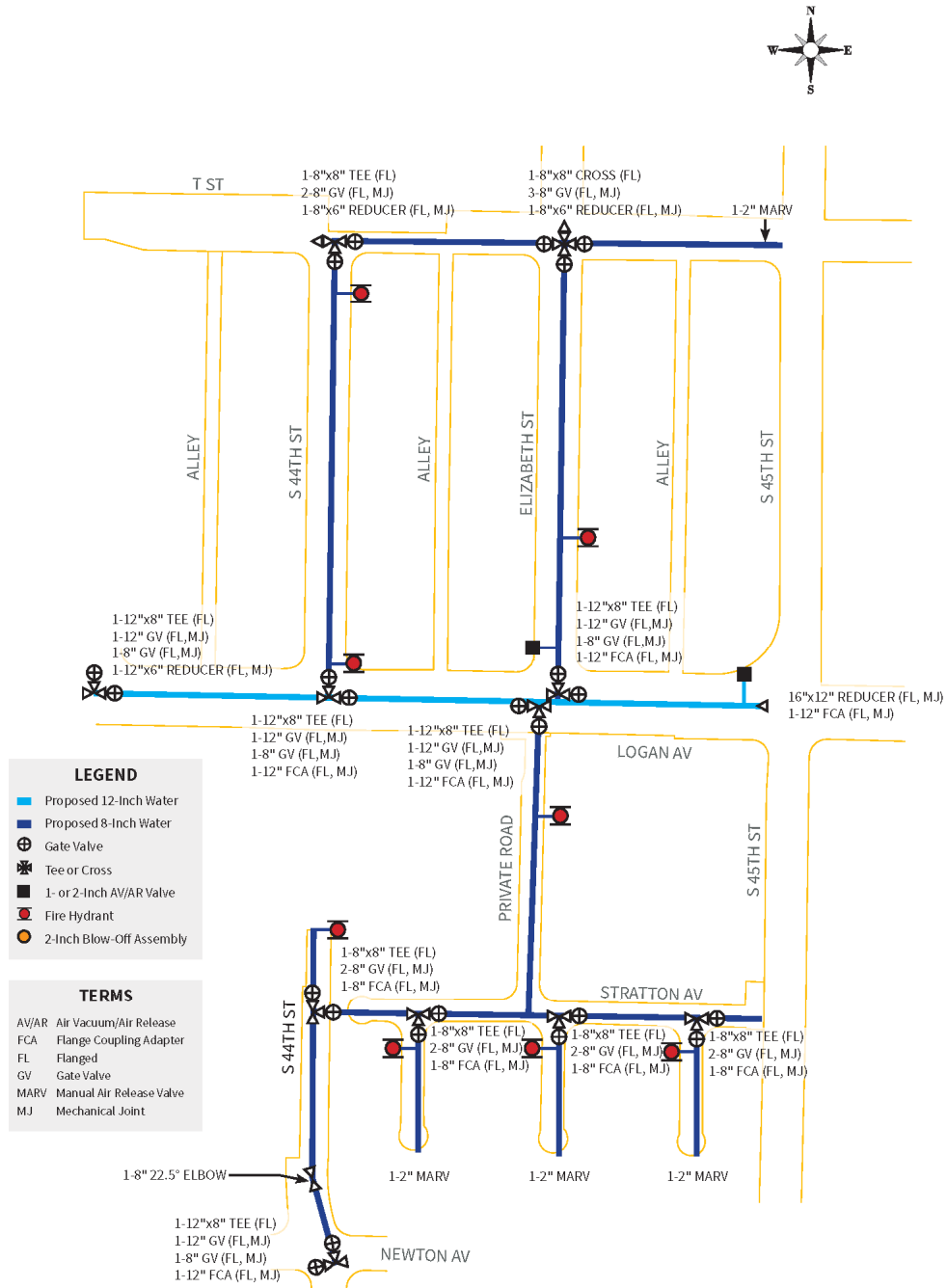
All replacement water pipelines for Map 1 are located within the University Heights 390 Pressure Zone. The ground surface elevations range between 65 to 95 feet resulting in static pressures from 130 psi to 155 psi. These pressures are below the maximum design pressure of the proposed pipeline DR18/CI235. The pipeline replacement in Logan Avenue will be 12-inch in diameter. All other water pipeline replacement will be 8-inches in diameter. A portion of the water replacement work in Map 1 lies within the private gated Eastgate Village Community. The Eastgate Village Home Owners Association (HOA) owns and maintains the streets while the City of San Diego operates the water mains.

The new and replace in place sewer pipelines will be 8-inches in diameter. The sewer main depths range from 5 to 10 feet below ground surface. The addition of the new sewer mains and sewer abandonments will redirect the alley sewer flow west towards Dominion Street. There will be 16 sewer replumbs due to the abandonment of backyard sewers.

Map 1 Improvements Summary			
Water Improvements		Sewer Improvements	
Pipeline Diameter (inches)	8 and 12	Main Diameter (inches)	8
Pipeline Length (feet)	8" – 1,000 12" – 4,135	Main Length (feet)	3,219
Pipeline Abandonment (feet)	0	Main Abandonment (feet)	554
Water Services	133	Sewer Manholes (each)	17
Fire Hydrants (each)	8	Replumbs/Laterals (each)	74



Map 1 Sewer Concept Design



Map 1 Water Concept Design

Map 2 – Encanto Neighborhood

The work identified in Map 2 contains both water and sewer main replacements. The Wunderlin Avenue water main improvements will connect the proposed 12-inch diameter waterline to the existing 8-inch pipeline. The new water main installation will allow for the abandonment of existing pipeline which runs through the Encanto Elementary School property, placing all remaining pipe in more serviceable areas of the street. The water main improvements range between 8 and 12-inches as shown in our proposed Map 2 concept design.

The sewer main replacement is limited and only occurs in short sections. The proposed sewer will be 8-inch in diameter and utilize a replace-in-place method of design and construction.



The western connection of the Shaules Avenue water pipeline will be at the existing 4-inch backflow preventer and water meter facility that serves the Summit Bridge Mobile Home Estates. The existing backflow preventer is located within a chain link fence enclosure. The proposed concept will tie-in the new 8-inch water main just outside of the chain link enclosure, minimizing both disturbance and disruption.

The 12-inch diameter water pipeline will cross Imperial Avenue at 65th Street. This crossing includes crossing both the Metropolitan Transit System (MTS) trolley track and the 8' x 8' concrete box culvert. The as-built drawings indicate that the existing pipeline was jack and bored under the MTS trolley track and direct buried under the future culvert, as the culvert was not yet constructed at the time of its installation. Today, the only practical method of installation will be to install the 12-inch diameter waterline using a jack and bore under both the MTS trolley track and box culvert. The jack and bore will utilize a minimum 20-inch diameter steel casing and extended 10 feet beyond the MTS right-of-way to allow future serviceability.

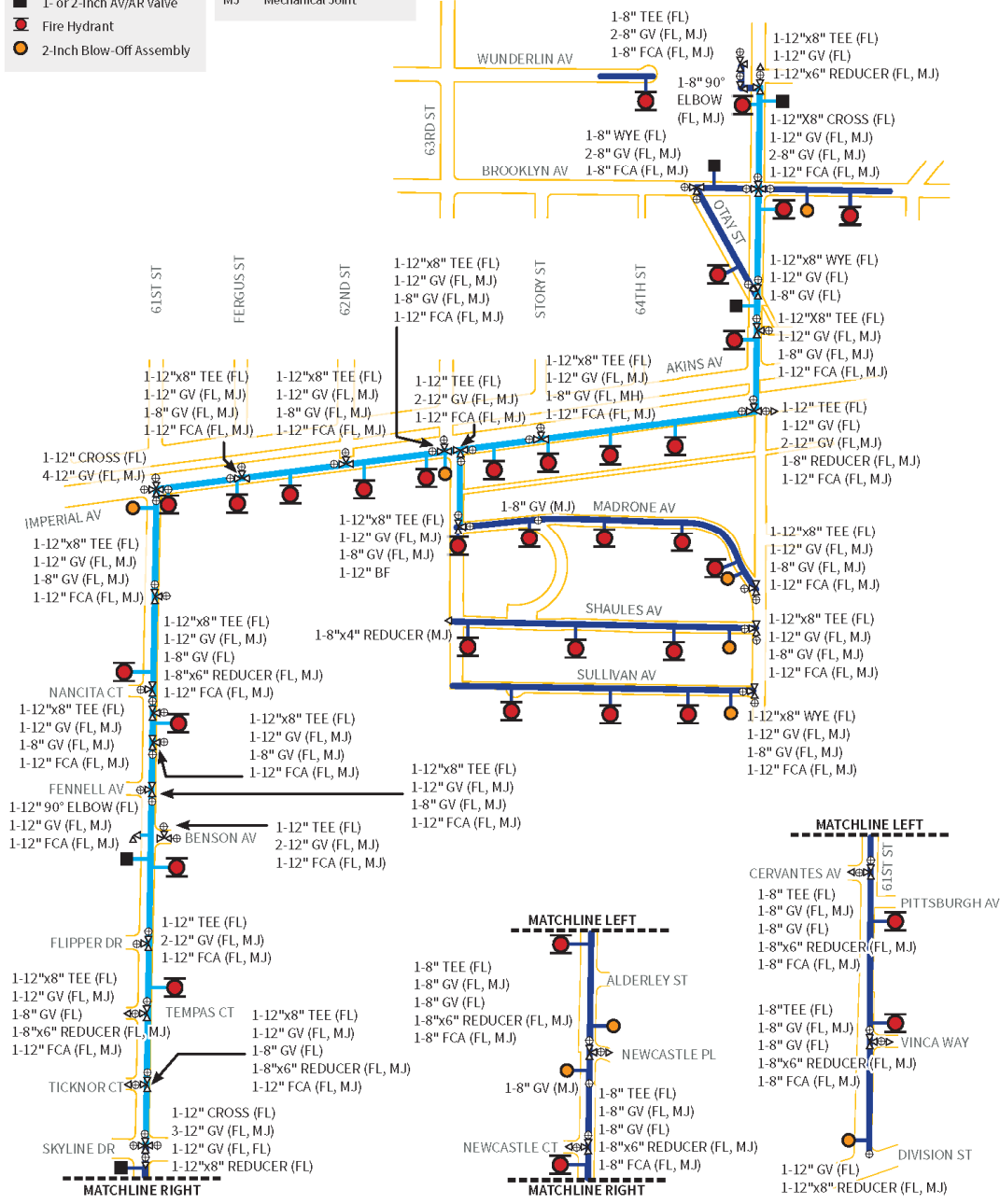
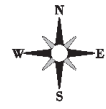
Map 2 Improvements Summary			
Water Improvements		Sewer Improvements	
Pipeline Diameter (inches)	8 and 12	Main Diameter (inches)	8
Pipeline Length (feet)	8" – 7,080 12" – 8,520	Main Length (feet)	1,010
Pipeline Abandonment (feet)	465	Main Abandonment (feet)	0
Water Services (all sizes)	199	Sewer Manholes (each)	9
Fire Hydrants (each)	32	Laterals (each)	22

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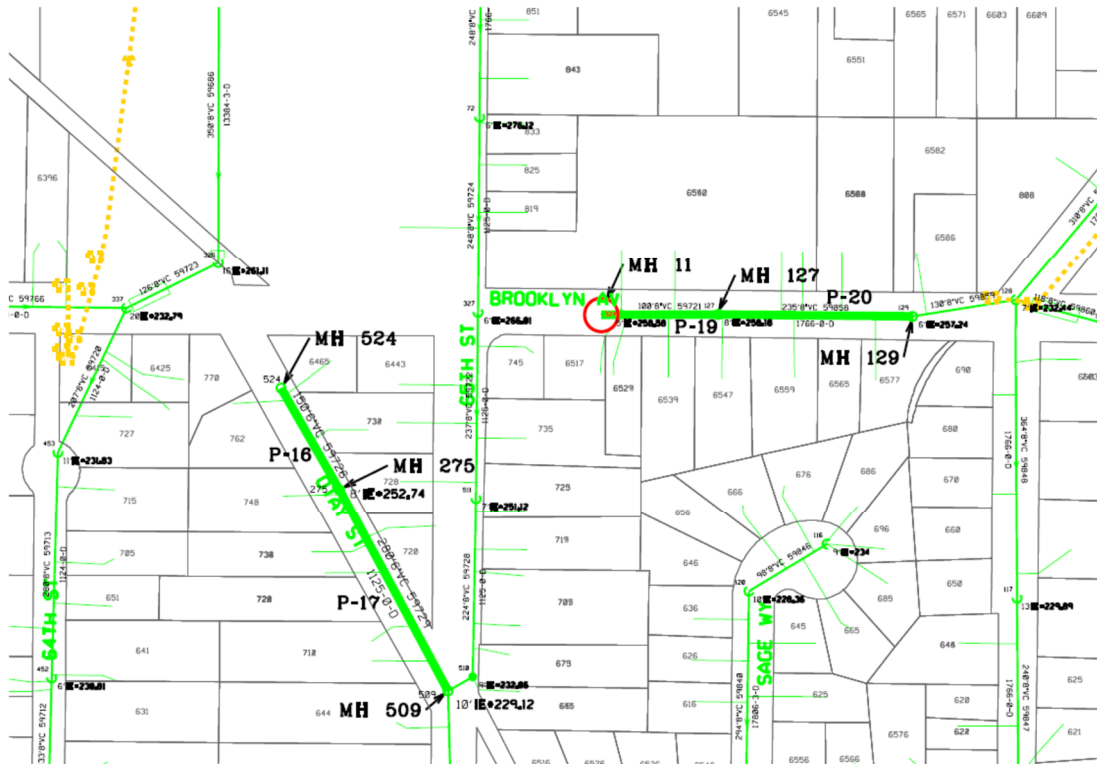
- █ Proposed 12-Inch Water
- █ Proposed 8-Inch Water
- Gate Valve
- Tee or Cross
- 1- or 2-Inch AV/AR Valve
- Fire Hydrant
- 2-Inch Blow-Off Assembly

TERMS

- AV/AR Air Vacuum/Air Release
- FCA Flange Coupling Adapter
- FL Flanged
- GV Gate Valve
- MARV Manual Air Release Valve
- MJ Mechanical Joint



Map 2 Water Concept Design



Map 2 Sewer Concept Design

Map 3 – Skyline Neighborhood

Map 3 consists of water pipeline replacement and a parallel water pipeline improvements. The water pipeline will operate entirely within the Paradise Mesa 610 Pressure Zone. The RFP indicated that the parallel water pipeline be constructed from the intersection of Glencoe Drive and Solana Street to Brennan and Braddock Streets. The remaining waterline would continue up Braddock Street ending just before Lansing Steet. Lansing Street is served by the Helix Water District and is not available for connection to create a loop.

In reviewing this RFP concept, **we identified deficiencies in the RFP**. The concept would have 34 homes and three fire hydrants on a single, non-looped water supply. The City’s *CIP Facility Design Guidelines, Book 2, Section 2.8* requires water pipelines serving more than two fire hydrants or more than 30 homes must be looped. The Orion team has identified and included a solution to this deficiency and **proposes to extend the looped system past Brennan Street** as shown in the Map 3 proposed concept. This brings design into conformance with the City Guidelines as the total number of homes served by a single non-looped main under 30 with no more than 2 hydrants being served off the same main.

In extending the Braddock Street main, the Orion team reviewed the available roadway section to confirm that the additional pipe can be installed in compliance with all state and local utility requirements. The section below shows the double main can be accommodated within the paved roadway. The separation between the water and sewer is discussed in section 6.2.1.

5.2.1 - Pipeline Alignment, Sizes, and Locations of Appurtenances

Water Mains (Replace-in-Place and Proposed)

Water Pipeline Alignment and Diameters

The replacement water mains, for the three map locations, will range in size from 8-inch to 12-inch diameters. These pipelines were identified in the RFP to be installed using the replace-in-place method. The depth of cover will be three (3) feet minimum.

There may be areas where the water main is less than 10 feet from the storm drain or sewer. The water and sewer separation requirements are regulated under California Title 22 Code of Regulations, Division 4 Environmental Health, Chapter 16, Article 4, Section 64572. The regulations require a minimum 10-feet of horizontal separation (outside pipe to outside pipe) and one foot of vertical separation. If existing alignments do not meet the 10-foot separation requirement the pipe will be up classed to a higher-pressure rating.

Orion will present the city with additional pipeline replacement upgrade options such as relocating new waterlines or utilize alternate pipe materials such as fused HDPE if so desired. These options will deviate from the project RFP and may require additional environmental, archaeological, and cost increase considerations.

Map 2 includes replacement of an existing 8-inch main with a new 12-inch main passing under the Metropolitan Transit System (MTS) trolley tracks. The existing casing is a 14-inch pipe and is not sized appropriately to support a new 12-inch diameter water main. It also does not extend beneath the existing box culvert, so the pipeline will be relocated into a new alignment inside of a steel casing installed by jack and bore method under the tracks and culvert.

Map 3 includes a section of dual main which will be extended further than the RFP Bridging Documents indicate, as discussed in Section 6.2, to meet the City guidelines for non-looped watermain construction. It is anticipated that both mains will be located within the same trench, with a minimum 1-foot separation between the outside diameters of the pipe.

Water Pipeline Material

The replacement water mains will be designed in accordance with the City's Design Guidelines and AWWA C-900 (*Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings 4-inch through 12-Inch*) for the 12-inch PVC pipelines. The pressure and dimension ratio (DR) shall be Class 235 and 18, respectively.

Water Pipeline Fittings

Pipeline fittings will be ductile-iron with mechanical joints in accordance with AWWA C-111 (*Rubber-Gasket Joints for Ductile Iron Pressure Pipe and Fittings*). Ductile-iron fittings will be cement mortar-lined at a doubled thickness in accordance with the City's Whitebook Section 209-1.1.2.10. (2015 edition) and AWWA C-104 (*Cement-Mortar Lining for Ductile-Iron Pipe and Fittings*).

Isolation Valves

The 8-inch and 12-inch mains will have resilient wedge gate valves for isolation, meeting the requirements of AWWA C-509 (*Resilient-Seated Gate Valves for Water Supply Service*) or C-500 (*Metal-Seated Gate Valves for Water Supply Service*). Additional gate valves will also be designed and placed; depending on size (6-, 8-, and 12-inches), location, and function, specifically at smaller branch lines and tie-in connections and fire hydrants.

Map 2 includes valves which isolate varying hydraulic zones. These isolation valves will be noted as red valves and painted red to denote the separation of hydraulic zones.

Combination Air-Vacuum and Air-Release Valves (AV/AR) Valves

All high and low points will be identified. High points will include a fire hydrant or air release valve. Low points will include either a fire hydrant or blow-off. During the preliminary evaluation, **we have located fire hydrants so that they can function as either air release valves or blow-offs.**

Blow-Off Assemblies

To drain portions of pipelines and blow-down segments that may collect sediment and undesirable residual matter, blow-off assemblies are designed and installed in accordance with the City's Standard Drawings (2016 edition). The replacement water mains, as with many distribution pipelines, will utilize fire hydrants, existing and new, at or near low points to satisfy the need for blow-off assemblies.

Water Services and Connections

Water services will be 1-inch, 2-inch, and 4-inch in diameter and either copper or PVC depending on the service connection size. All water service connections will be designed and installed consistent with the City Standard Drawings, County Regional Standard Drawings, and Uniform Plumbing Code. Water services will be installed perpendicular to the proposed water main. Unused or non-permitted water services will not be reconnected unless a permitted building plan shows otherwise. Applicable standards are SDRSD WS-01, WS-02, WS-03, and City Standard Drawings SDW-100.

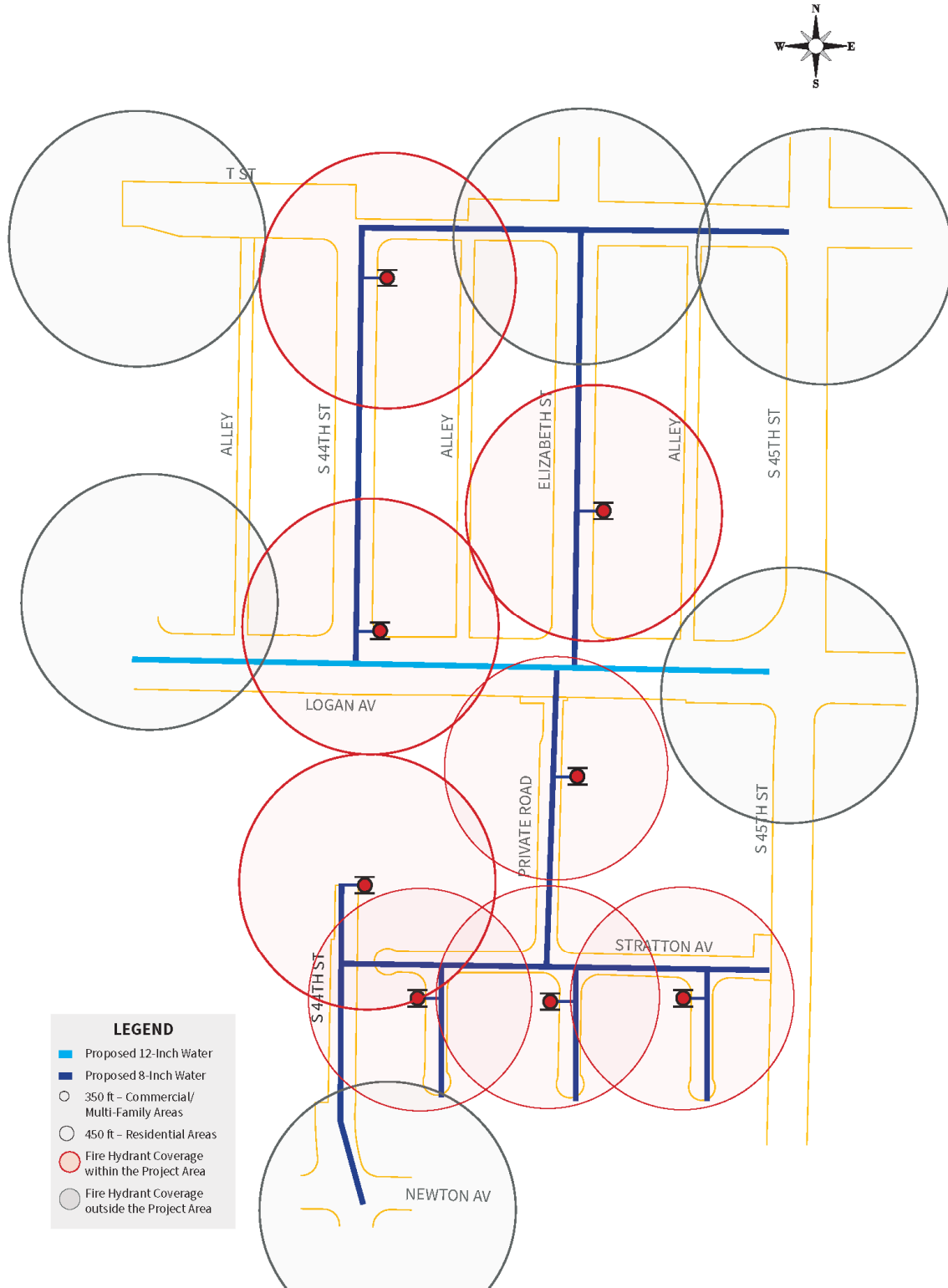
Fire Hydrants

The City of San Diego's land use zoning maps identifies the land uses within the Project area. In general, Map 1 is single family residential but south of Logan Avenue the land use switches to multi-family residential. Map 2 is largely single family residential. Multi-family residential pockets can be found on the northside of Imperial Avenue, north of Madrone Avenue and along 65th Street south of Herrick Avenue. Commercial land use is found along Imperial Avenue within the Project area. Map 3 is single family residential. The project areas will be governed by the appropriate hydrant separations per the listed land use and Water CIP Guidelines and Standards, Book 2, Chapter 3.5.2.

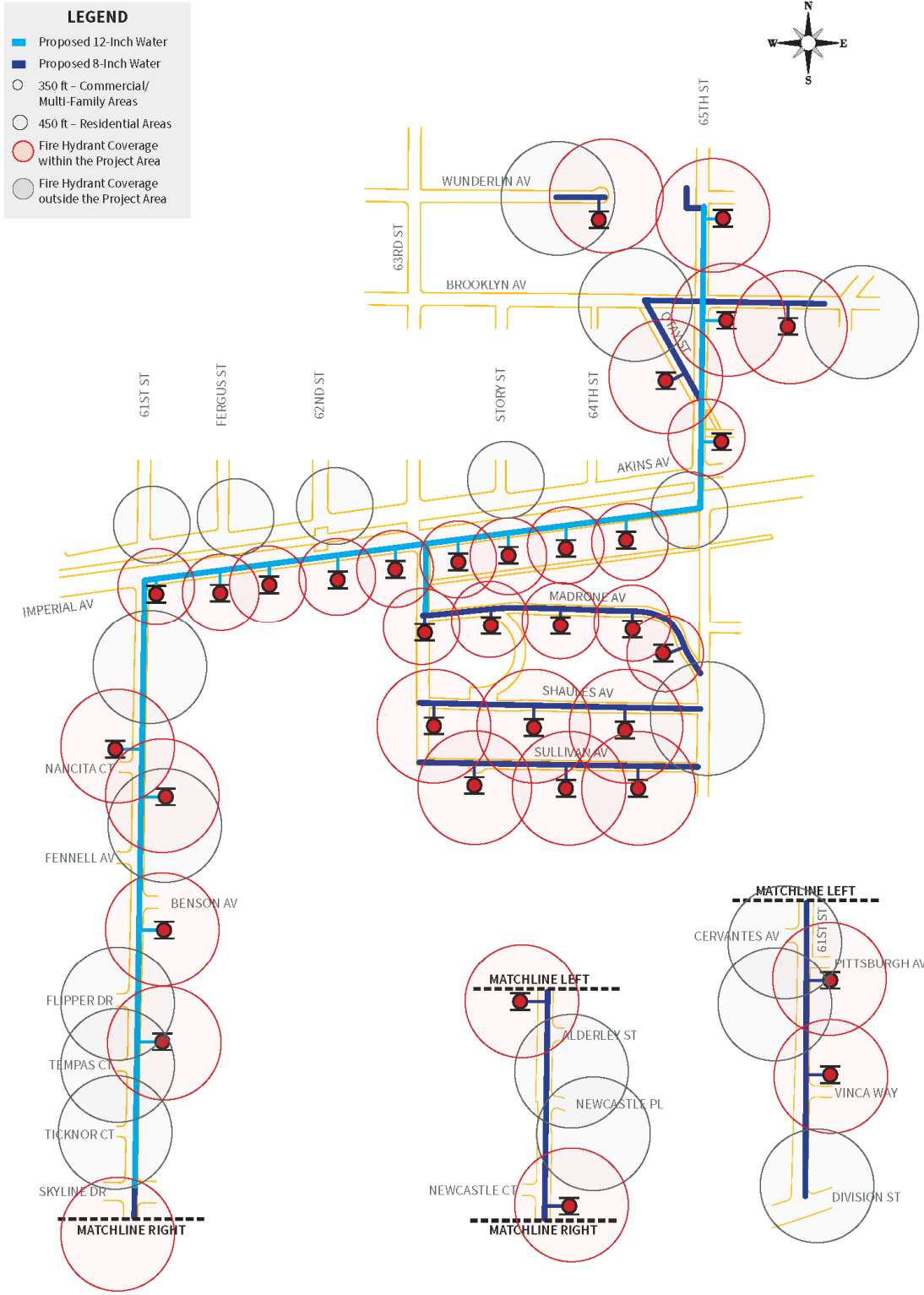
- The majority of the project area is single family residential and requires 450 feet hydrant spacing. The previous fire hydrant spacing was 600 feet. Additional hydrants have been included on each of the 3 Maps to comply with this spacing.
- A small commercial area runs along Imperial Avenue between 61st and 65th Streets, and at the intersection of Logan Avenue and 45th Street. Multi-family housing is located along 65th Street north of Herrick Avenue. The current fire hydrant spacing for commercial and multi-family residential land uses is 350 feet hydrant spacing. Hydrant locations have been upgraded to meet the requirements.

Fire Hydrant Summary Table		
Map	Number of Existing FH	Number of FH with new spacing requirements
1	6	8
2	23	32
3	7	10
Total	36	50

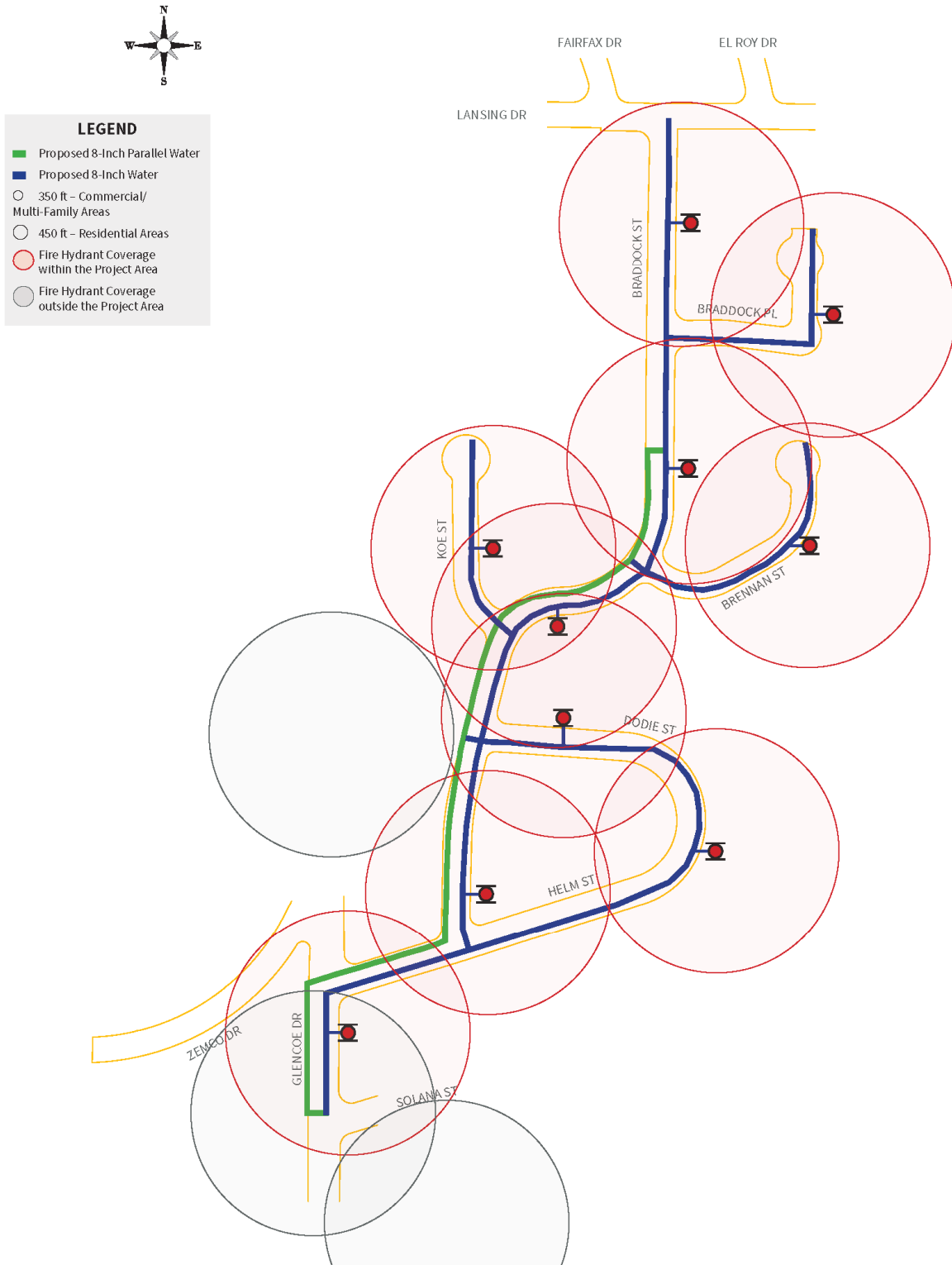
Graphically presented on the next three pages are the proposed FH locations for the project.



Map 1 – Fire Hydrant Spacing



Map 2 – Fire Hydrant Spacing



Map 3 – Fire Hydrant Spacing

Gravity Sewer Mains (Replace-in-Place)

Sewer Alignment and Diameters

Map 1

The replace in place gravity sewer will be 8-inches in diameter. Approximately 1,400 linear feet of the sewer main will be installed as new sewer. A portion of the current sewer system (420 LF) will be abandoned with the completion of the new sewer main. The new sewer will be on Logan Avenue and in alleys. New manholes are included as necessary with the installation of the new sewer main.

Map 2

The replace in place gravity sewer will be 8-inches in diameter. Approximately 1,100 linear feet of sewer main will be replaced-in-place in three different locations in the Encanto neighborhood.

Sewer Main Material

The sewer mains will be designed utilizing PVC material and in accordance with the latest editions of the City's Sewer Design Guide, Whitebook Part 207 *Gravity Pipe*, "Greenbook" Standard Specifications for Public Works Construction, and materials included on the *Approved Materials List for Wastewater*. The anticipated material is SDR-35 PVC pipe.

Sewer Main Fittings

Gravity sewer fittings shall also be PVC in accordance with City's Sewer Design Guide, Whitebook Part 207 *Gravity Pipe*, "Greenbook" Standard Specifications for Public Works Construction, and materials included on the *Approved Materials List for Wastewater*.

Sewer Manholes

Sewer manholes will be designed and constructed in accordance with the City's standard 48-inch diameter sewer manholes with heavy-duty 36-inch diameter frame and covers. Replacement and new manholes will require lining if they are in groundwater, are in coastal communities, or are connected to sewer mains 18-inch and larger in diameter. (*Sewer Design Guide* Section 2.3.5.3).

Sewer Laterals

Existing sewer laterals that serve individual residential and commercial properties will be re-connected to the proposed sewer main to be constructed within the public right-of-way. The sewer laterals will be designed pursuant to the California and Universal Plumbing Code with a minimum depth of 5 feet and a maximum depth of 7 feet, measured at the property line. Sewer laterals will adhere to the Sewer Design Guide Part 2.5, Whitebook Part 207 *Gravity Pipe*, "Greenbook" Standard Specifications for Public Works Construction, and materials included on the *Approved Materials List for Wastewater*.

Replumbs

The changes to the sewer system in Map 1, as proposed in the RFP, will require that some residential sewer laterals be “replumbed” to the newly installed sewer main. Replumbs will follow the same standards as traditional sewer lateral connections. The design drawings will support the application for plumbing permits by the design-build team as required for work on private property. Building sewer design will follow the California and Universal Plumbing Codes including ABS pipe at a minimum depth of 18-inches for connection to the homes.

The outreach required to coordinate with the residents, homeowners, and business owners for building sewer re plumb work on Private Property installation is significant. **The Orion/Harris team is well versed in the process to gain access to work on private properties and has recently completed 56 successful replumbs on our Catalina Project in the Pt Loma area** where all 56 agreements were executed and recorded with the City Clerk's office. Replumb construction often impacts custom landscaping, hardscape, and improvements on private property that has to be coordinated and documented with each property owner.

5.2.2 Traffic Control Approach

See Section 6.1.10 for Traffic Control Management

5.2.3 Design QA/QC Approach

Heidi Andrews will serve as the Team’s overall Project QA/QC Manager and Construction Quality Control. Heidi will coordinate with **Alex Yescas** and **Patrick Garner** to integrate the design review process into a project-wide quality control plan. As Orion’s project QA/QC Manager, Heidi will report directly to **Jason Danks** and will be responsible for the oversight of the entire design and construction process and its conformity to the contract documents.

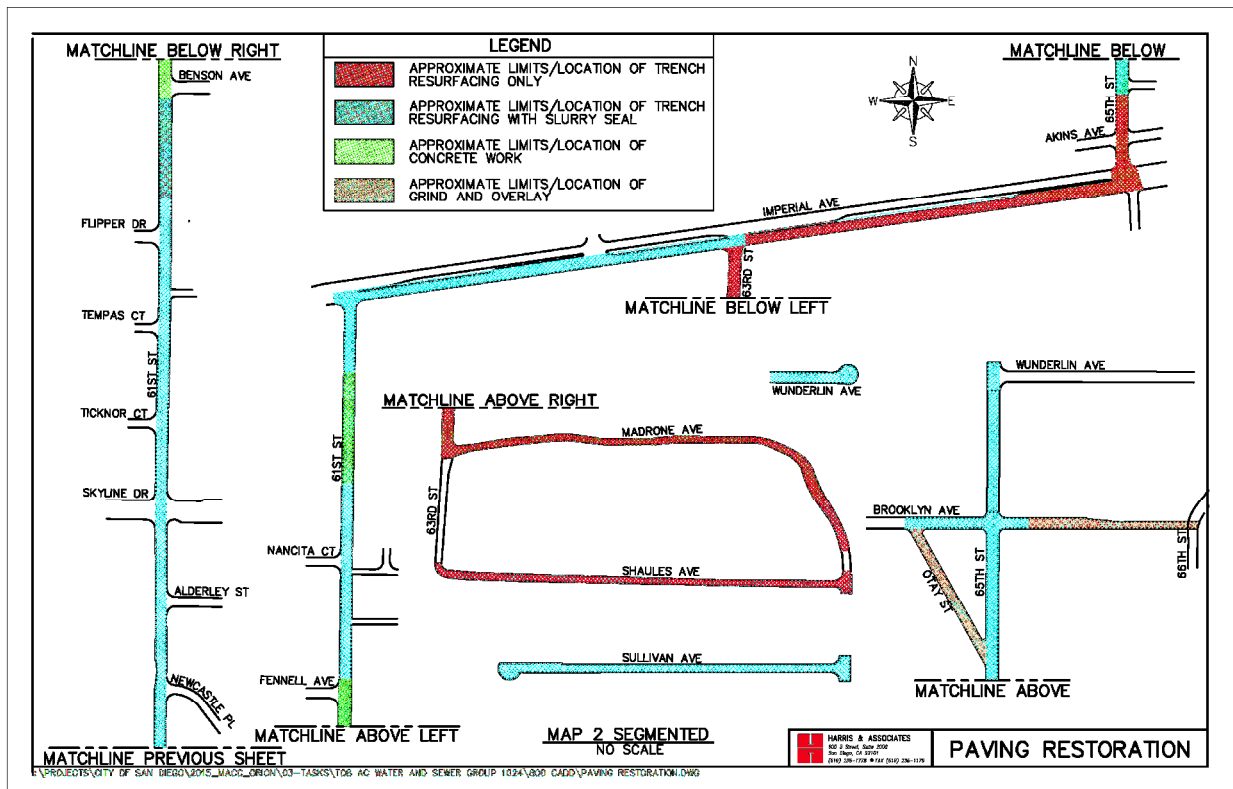
Alex will be responsible for the oversight of the design process and its conformity to the contract documents. Through each stage of the design process, he will coordinate with the discipline reviewers ensuring that each discipline and cross-discipline has been reviewed and signed off. He will coordinate with the design discipline leaders to ensure that they included all items listed in “Attachment A,” Section 29, Design Submittals, of the RFP.

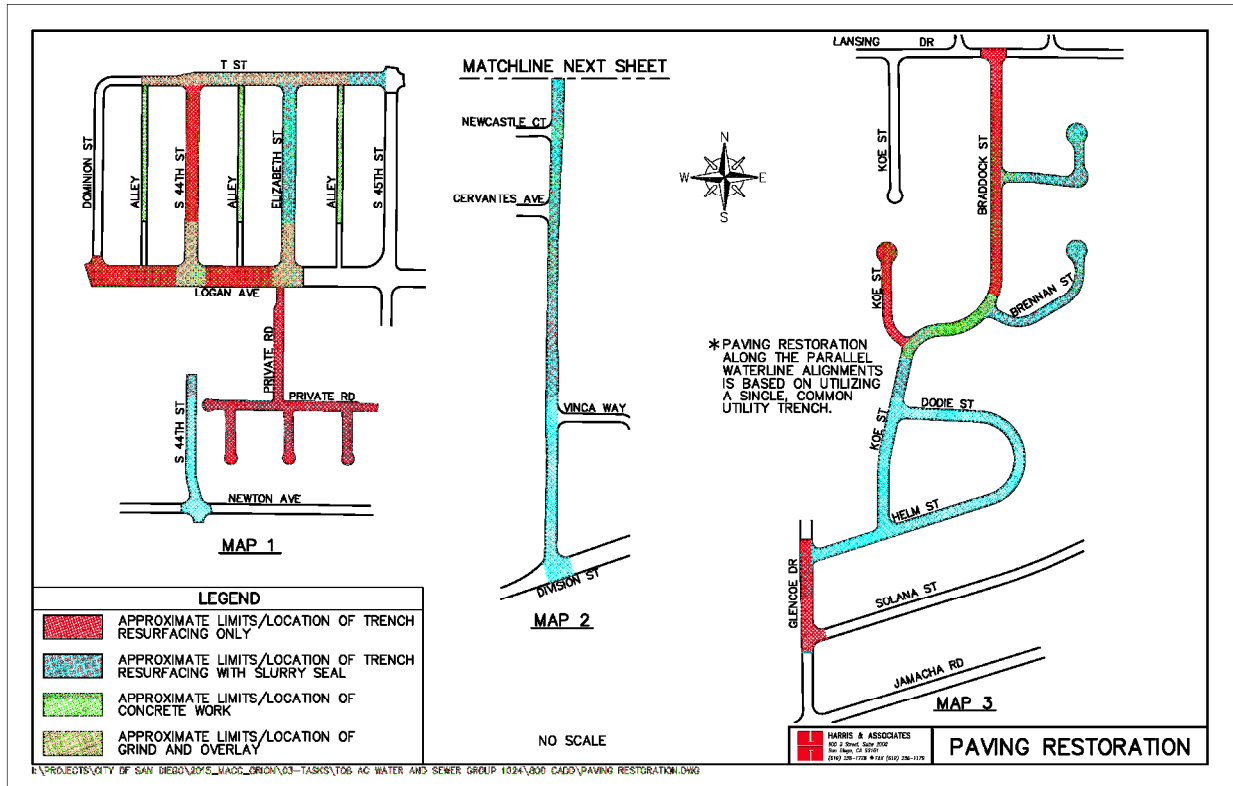
Once the design packages are ready for delivery to the City, Heidi will independently review the packages to certify that the entire submittal package is in conformance with the contract documents. During the Construction Phase, Heidi will confirm that construction submittals are received, reviewed and approved. Heidi will submit and track RFIs and responses, manage permits, and confirm construction is in conformance with the contract documents.

5.2.4 Paving Restoration

Pavement and surface restoration will be consistent with the City’s Preliminary Engineering Report (PER) Section 3.2.1. The RFP also references the Paving Conflicts Maps and Moratoriums (Supplementary Special Provisions Section 6-2.1). There are two (2) slurry seal programs that run through the summer of 2020 and will need to be coordinated depending on the specific schedule for Group 1024.

The Overall Condition Index (OCI) pavement ratings have been thoroughly researched and reviewed over the entire Project and will be considered along with the construction impacts (i.e., improvements, single or multiple utility trenches, etc.) to determine the appropriate paving restoration. The RFP Preliminary Engineering Report included additional conditions for streets currently rated in “poor condition.” If a poorly rated street is impacted by a single trench, then Orion will provide the trench-only paving pursuant to Item 2.0 of the Engineering Report. The remaining paving activities, potentially full width AC street overlay, will be performed by the Street Division at a later date. Map 3 includes a parallel main which will be installed using a single trench. Therefore, street resurfacing beyond the trench patching will be performed by the Street Division.





Water and Sewer line trenches in Asphalt Concrete Pavement will be restored in accordance with City Standards (SDG-107). Slurry seal will be furnished and installed as required per the Whitebook 302-4.1 of the 2015 City Whitebook. The slurry seal will be furnished where shown above. In addition to asphalt concrete pavement resurfacing, some streets are paved using Portland Cement Concrete (PCC). This was generally installed due to the steep slopes or locations in alleyways. In traditional concrete streets trenches impacting the concrete panels will require the concrete to be replaced to the nearest joint. The concrete alleyways do not have any existing longitudinal joints so the entire alleyway will be replaced with new PCC paving.

Orion will coordinate with “ONE SAN DIEGO,” a community group dedicated to neighborhood enhancement, which recently designed and painted the 61st Street and Benson Avenue intersection as shown in the photograph below. As Group Job 1024 will be installing a 12-inch diameter water pipeline through this community artwork, we would like to support One San Diego in restoring the mural and continue outreach to the neighborhood. **While this is unrelated to City Standards, we still consider this surface restoration and necessary as part of our community outreach to the local stakeholders.**



Mural at the intersection of 61st Street and Benson Avenue, northwesterly viewpoint.

Applicable City of San Diego's Standard Drawings for Public Works Construction (2016 Edition) related to paving restoration are as follows:

- SDG-107
- SDG-108
- SDG-110
- SDG-112
- SDG-113
- SDG-120
- SDG-130 thru SDG-140
- SDG-157
- G-21 thru G-23
- SDW-110

Following this work, painted traffic striping and thermoplastic designations, markings, and markers will be installed in accordance with City Standards and Specifications.

5.2.5 Water Highlining Plan

See Water Highline discussion in Section 7.1.1 Construction Approach and Methods.

5.2.6 Phasing of Design and Construction of Each Site Separately

See Section 6.1.8 for Phasing Discussion

5.2.7 Curb Ramp Installation

The design level for each curb ramp will vary. Locations with significant physical constraints require more detail than more traditional installation. Orion is proposing the following recommendations as part of our proposal which should be discussed at the kick-off meeting and incorporated into the initial design of the ADA plan sheets. Hardships or technical feasibility


constraints preventing the design and installation of curb ramps will be documented and depicted with annotated photographs and maps identifying physical constraints and ADA-compliant paths of travel.

The Access Law Design Compliance Memorandum (ADA Memorandum) provided as part of the Bridging Documents is dated August 8, 2016. Orion concurs with the ADA Memo’s recommendations where curb ramps in good condition, with detectable warning tiles (DWTs), are not required to be replaced as part of the Project. Our individual field investigations identified the following curb ramps which will require a variance from the ADA Memorandum. The RFP requires detailed surveys for approximately 19 curb ramps, including residential and commercial driveways. These will be provided in the design drawings.

Item	Location	Type	Description
4	SE, SW	D	Installing a Type D Curb Ramp with one, single flare and utilizing the existing sidewalk for a landing area would be simpler and more practical than constructing additional concrete sidewalk, relocation existing chain link fence, and re-directing a more consistent path of travel.
	SE, SW	D	Alley between Dominion Street and 44 th Street intersection was omitted from the ADA Memorandum. Our design approach will include installation of two Type D Curb Ramps.
8	Option A		Option A produces the best line-of-sight for pedestrians and cars to see each other primarily due to the larger area of “No Parking” (red curb) designations along T Street. Parked cars along Dominion Street tend to reduce visibility for pedestrians and vehicles in Option B.
11	Logan Avenue	Driveway	The private HOA driveway (exit only) will require a slight narrowing as part of its reconstruction so that the landing can be installed on the sidewalk.
13	A-I		These nine curb ramps are located within the Eastgate Village Community. We will meet with the HOA, Board of Directors, and ASPM (the community association manager) to discuss curb ramp installations. Upon visual inspection, the existing concrete sidewalks and driveways do not appear to meet City Standards and will require more design and consideration.
21	NW, NE		According to the ADA Memorandum, the NE ramp does not need replacement as it is equipped with DWT. However, it is a directional ramp to the southwestern curb ramp and pedestrians cannot cross to the NE corner. We recommend pedestrian barriers be put so that the NE/NW crossing is prohibited.



NW corner

24	SE		<p>At the intersection of Imperial Avenue and 63rd Street is a narrow radius corner with a traffic signal and fire hydrant. Two designs are proposed which will satisfy the ADA requirements. Both are shown herein. The curb ramp on the left is centered on both crosswalks whereas the ramp on the right has two directional ramps with a common landing area.</p> 
34	NE, SE		These curb ramps are installed with DWT. No improvements are necessary.
35	NE		This curb ramp is installed with DWT. No improvements are necessary.
46	S	C2	There are 9 feet to right-of-way. A Type C1 curb ramp can be installed.
48	1, 2, 3, 4		Areas 1, 3, and four curb ramps are installed with DWT. No improvements are necessary. Area #2 is very steep and it is recommended that no ramp be included here and pedestrian barriers be installed at Areas 1 and 2.
	T-side		Braddock Street and Brennan Street intersection was not included in the ADA Memorandum. NE and SE corners have curb ramps installed with DWT. No curb ramps will be installed on the T-side as there are existing driveways perpendicular to the NE and SE corners.
49	SW		This curb ramp is installed with DWT. No improvements are necessary.
50	SW		This curb ramp is installed with DWT. No improvements are necessary.

5.2.8 Phasing and Coordination with Adjacent Projects

Orion has identified several projects in the area that will need specific coordination throughout design and construction of the Group 1024 Project. We have reviewed RFP Attachment E Section 2-14.3 and the City’s CIP Project Map Viewer.

These projects will be monitored closely for potential impacts throughout the project life. Orion will request the schedules from each of these projects so that field work can be coordinated before there is a conflict. During the construction process, there will be additional coordination with the adjacent projects and City staff to ensure there are no conflicts with Construction Schedules, Traffic Control Impacts, or Community Impacts.

5.2.9 Storm Water Pollution Control Best Management Practices

The Group 1024 project will require a Water Pollution Control Plan (WPCP) at three sites. The WPCP will be prepared specifically for each site, and it will incorporate the best management practices and guidelines in the document. Typical BMP's in the WPCP include: storm drain inlet protection devices, silt fences, gravel bag check Dams, straw wattles, concrete wash outs, secondary containment for our sanitary facilities, solid waste management, equipment main and fueling protection, wind protection, stock pile covers, and any other items required by the specific weather conditions.

5.2.10 Subsurface Investigation and Geotechnical Work

During the design phase, the team will also review all existing geotechnical data in the project area and develop written a report which will include:

- Subsurface conditions along the alignments
- Excavation conditions and the potential for encountering difficult excavation conditions and soft or loose, unstable soils
- Allowable temporary excavation side slopes and the necessity for shoring
- Lateral loads on shoring, if needed
- Support for the pipeline
- Potential pipeline settlements
- Appropriate types of bedding and backfill materials as well as placement and compaction procedures
- Suitability of excavated materials for use as bedding and backfill
- Review of the Geotracker database for potential contamination

The design team also plans to drill 8-inch diameter test borings as needed with a truck-mounted drill rig equipped with a hollow stem auger along the project alignment for new sewer mains. In addition, test borings will be drilled for the trenchless waterline section at the MTS Right-of-Way.

5.2.11 Proposed Design Schedule

See Overall Project Design and Construction Schedule in Appendix A.

5.2.12 Quantity Estimates

1. Additional Bedding: 15 CY
2. Imported Backfill: 30 TONS
3. Asphalt Pavement Repair: 2250 SF
4. Additional Curb and Gutter: 300 LF
5. Additional Sidewalk Removal and Replacement: 1500 SF
6. Additional Pavement Removal and Disposal: 15 CY

Section 6: Construction Plan

6.1 Proposed Construction Plan

The construction plan for the Design-Build AC Water and Sewer Group 1024 is based on the Orion team's complete understanding of the project goals and our knowledge and neighborhood-specific experience executing design-build projects involving water and sewer main replacement.

Orion will operate as the Design-Builder, accepting full responsibility for the overall design, construction, quality, cost, and schedule. The single point of contact for the city staff will be our Project Manager, Jason Danks. To properly manage this design-build project, Orion will maintain control of the schedule and procurement as described in this document. Orion will implement an aggressive quality assurance/quality control program for all phases of design, construction, permitting, and commissioning, led by Heidi Andrews.

All major correspondence between team members will be routed through Jason Danks. This communication structure allows Jason to monitor the progress of each construction task within the project scope and keeps the project on task while taking the necessary steps to stay on schedule. Our Construction Manager, Jason Arme, will be onsite daily and will be responsible for the overall construction and safety for the project. Our experienced superintendent, Scott Vargas, who has previously completed numerous City group sewer and water main replacements, will lead the project craft workers.

6.1.1 Construction Approach and Methods

The construction approach follows the guidelines outlined in the RFP and provides for enhancement where applicable to minimize the impact to the surrounding neighborhood while constructing in a safe, clean, and efficient manner.

The following Orion crew types will be on site during this project:

- Design Pothole Crew
- High Line Installation Crew
- Construction Pothole Crew
- Water Pipeline Installation Crew(s)
- Trenchless Support/Shoring Installation Crew
- Sewer Line Installation Crew
- Asphalt Paving Crew
- Cleanup/De-Mob Crew
- Emergency Response Team
- SWPPP Maintenance and Response Crew

Orion will utilize its local experience in fully implementing the latest Greenbook and City Whitebook standards to the project. Orion's long working history with both the City and the designers will allow it to incorporate any requirements and nuances of the City's Water and Sewer Systems into the design early in its concept. Orion intends to follow all of the requisite codes, standards, and details outlined below:

Water Systems

- Pipe Bedding and Trench Backfill for Potable Water Mains, per SDW-110
- Thrust Blocks and Anchor Installations, per SDW-151
- Gate Wells and Valves, per SDW-152 through SDW-154
- Fire Hydrants, per SDW-104
- Air Valves, per SDW-158 through SDW-160 (as appropriate)
- Blow Offs, per SDW-143 through SDW-146 (as appropriate)
- Water Services, per SDW-149 through SDW-150
- Meter Boxes, per SDW-134 through SDW-137

Sewer Systems

- Pipe Bedding and Trench Backfill for Sewer, per SDS-110
- Manholes, per SDS-106 through SDS-108 (as appropriate)
- Sewer Laterals, per SDS-102 through SDS-105



Orion waterline installation crew installs new, PVC waterline in San Diego.

Site Specific Construction Analysis

Based on the Multiple types and sizes of both water main and sewer main prescribed to be installed on this project we have created a matrix of the different types of construction techniques to be utilized at each of the different work locations.

Map 1 - Logan Ave & 45th St.								
Street/Area	Water				Sewer			
	Replace in Place	New Alignment	Trenchless	Highline	Replace in Place	New Alignment	Trenchless	Replumbs
Logan Ave	12"			X		8"		X
"T" St.	8"	X		X		8"		
Alleys					8"	8"		X
S. 44th St.	8"			X		8"		X
Elizabeth St	8"			X				
HOA Area	8"			X				
Map 2 - Encanto Area								
Street/Area	Water				Sewer			
	Replace in Place	New Alignment	Trenchless	Highline	Replace in Place	New Alignment	Trenchless	Replumbs
Imperial Ave	12"			X				
65th St	12"	X	X	X				
Otay St	8"			X	8"			
Brooklyn Ave	8"			X	8"	8"	8"	
Wunderlin Ave	8"			X				
63rd St	12"							
Madrone Ave	8"			X				
Shaules Ave	8"			X				
Sullivan Ave	8"			X				
61st St	12"/8"			X				
Map 3 - Skyline Area								
Street/Area	Water							
	Replace in Place	New Alignment	Parallel Main	Highline				
Glencoe St	8"	X (paralell)	8"	X				
Helm St.	8"	X (paralell)	8" (partial)	X				
Koe St	8"	X (paralell)	8"	X				
Dodie St	8"			X				
Braddock St	8"			X				
Brennan St	8"			X				
Braddock Pl	8"			X				

(*Multiple Construction Techniques May be Used in Same Area*)

Special Considerations have already been prepared for the trenchless section of water main to be installed at 65th St where it crosses under the MTS trolley track and the existing drainage culvert. During the site walks, Orion discovered that SDG&E is currently in construction jacking and boring a 30" casing approximately 100' east of the proposed 1024 location. The existing ground conditions were visually and physically verified to be suitable for trenchless construction.



Orion also proposes to install a steel casing installed by jack and bore method under the railroad tracks and drainage culvert. The jacking pit will be installed in 65th St, north of Akins Ave. The pit will be 12' wide by 40' long to support the jacking operation and casing installation. The pit will be shored using trench shields or slide rail shoring systems. The receiving pit will be a 12-foot diameter drilled shaft located in the #2 lane of Eastbound Imperial Ave. The new casing will be installed 22' deep in order to provide the necessary clearance under both the culvert and trolley tracks. The 12" PVC water pipeline will be installed inside of the casing, supported by insulated casing spacers, with the annular space filled with light weight cellular fill per MTS requirements. All MTS permit and special construction notes will be followed as guidelines for construction in this area and workers will undergo MTS safety training for working around an active railway. Overnight ground water was observed and will be discharged pursuant to City regulations. The tunnel operation with the MTS right-of-way will occur 24 hours a day in compliance with MTS regulations.

6.1.2 Plan for Operation of Facility during Construction

Orion is experienced in the construction of Water Distribution Systems and Sewer Line Construction, both of which are prescribed in the RFP. Orion has a large inventory of company-owned NSF approved high-line pipe and fittings, temporary pipe, and equipment available which can be mobilized immediately. This will ensure the full-time operation of each City facility or water pipeline throughout the course of construction. Orion will take all precautions necessary to ensure that no damage or unscheduled shutdowns occur to any adjacent facilities including piping, utilities, traffic signals, and roads. Underground Service Alert will be contacted for verification and location of all utilities and will maintain notification current throughout the project. Construction operations will be coordinated to ensure efficient and orderly installation of each phase of the work in a sequence that will obtain the best results and the earliest completion each phase and that of the overall project. We will have the correct sizes of repair couplings and pipe

on hand for fast repairs resulting from unintended emergency utility strikes. They will be stocked onsite; the final quantity and selection is based on a review of the as-built drawings and input from City field operations staff.

All Cut and Plugs, Tie-Ins, and Water Main Shutdowns will be closely coordinated with the Water Operations Department, and before the transferring of water services or shutting down of water mains, Orion will provide notices to all affected businesses and residences. 24-48 hours before the shutdown, Orion crews will go door-to-door through the affected areas and provide final notices. Fire protection will be coordinated with the fire marshal, as required.

The continued operation of the existing sewer system will be maintained using temporary sewer bypassing. Orion owns an extensive inventory of sewer bypass pumps and piping. Each day of Sewer Line replacement, the sewage flows will continue uninterrupted operation through the sewer bypass systems back to the existing pipeline sewer. The Bypass will be set up at the beginning of each shift, and the flows will be reinstated at the end of the shift. Bypasses will be monitored full time while in operation and back up pumps and piping will be dispatched to the project in the event of an emergency or unplanned situations.

6.1.3 Plan for Phasing of Construction Activities

With three distinct map locations we have broken the project down into *5 phases*:

- Phase 1 – Water Install in Skyline Neighborhood (Map 3)
- Phase 2 – Sewer Install in Mountainview Neighborhood (Map 1)
- Phase 3 – Water Install in Mountainview Neighborhood (Map 1)
- Phase 4 – Sewer Install in Encanto Neighborhood (Map 2)
- Phase 5 – Water Install in Encanto Neighborhood (Map 2)

These phases will be constructed in sequence with our overall Design and Construction Schedule (located in Appendix A). During the preparation of the proposal for this project, we have identified Phase 1 as the work to be constructed by our Small Business partner Bert Salas Inc.

Construction of each site will proceed with the sewer main construction occurring first followed by the water main construction. Crews will complete all construction activities at each project location before demobilizing and moving to the next phase.

6.1.4 General Plan for Functional Testing and Start-Up

Orion will test each section of water main to the city standards included in the White Book Section 306-1.4.5 Water Pressure Test. Flushing and chlorination will proceed in accordance with AWWA C651 and State Health Department Requirements. We will exercise special care in flushing chlorinated water, so that all flushing water is de-chlorinated before discharge utilizing de-chlorination devices and tablets with continuous monitoring of chlorine levels by in-house Orion certified chemists, QSD'S and QSP's. The discharge water will be compliant with the Regional Water Quality Control Board Order No. R9-2013-0001, R9-2015-0001, and R9-2015-0100. Orion will coordinate and schedule final laboratory testing of the pipeline with City Staff. Once the City certifies all bacteriological tests (bac-t) have passed, each section of water main will be tied back into service within 15 days.

The new gravity sewer pipelines will be videotaped, and Wayne Ball/mandrel tested, in accordance with the Greenbook 306-1.2.12.2. This will ensure that newly installed gravity mains do not exceed the maximum allowable deflection. A DVD of the video will be provided to the City upon completion.

Repairs during the one-year warranty period will be Orion's responsibility. As in the past, Orion will support City staff in their investigations of potential defects and provide assistance to identify their causation and apportionment of liability. With over 25 years and numerous successful projects with the City, warranty repairs in or out of the contract warranty period have always been dealt with to the City's satisfaction with prompt attention to minimize liability from third parties.

6.1.5 Proposed Safety Program

The Orion team will prepare a written site-specific Safety Plan/Illness and Injury Prevention Program for submission to the City prior to starting construction. Our Safety Plan will include all applicable requirements of CAL/OSHA. Our Safety Manager will consult with our Superintendent to define the scope and sequence of work and will develop specific Job Task Analyses (JTA's) to identify the sequence of events, associated hazards, and implement control measures. These are then used as training tools to educate the field team in onsite safety as it relates to them.

Along with the JTA's that guide safety of the construction crews, the safety of the public is a key factor in planning a safe job site for this project. Public safety will start with the community outreach process, so the project team understands safety concerns coming from the neighborhood. Essential safety items that we have planned for in our proposed construction:

- Identify pedestrian traffic and walkways around work zones
- Bicycle Safety and alternative safe passages around the work zones for cyclists
- Resident safety and safe travel to and from driveways
- Special attention will be taken in addressing continued access for special needs residents
- Coordination with adjacent projects, so conflicts do not impact the public safety
- Special attention to safe travel routes for children
- Working around active Railway/MTS Training

Orion will utilize planning/scheduling meetings with field staff and subcontractors to review the safety strategies, review Job Task Analysis (JTA), identify possible hazards, and coordinate work activities. Informal meetings are used at the beginning of each day for supervisors to emphasize safety topics about the day's scheduled work, using the JTAs as a training tool.

Personal protective equipment is provided to all workers in compliance with all OSHA regulations. The use of high visibility safety vests, ANSI approved hard hats, safety glasses, gloves, and work boots are the minimum PPE required for construction activity. There is also extra equipment on site for temporary use by visitors.

New employees receive a safety orientation and training prior to starting work. Apprentices receive special attention because of their relative unfamiliarity with the overall construction process. We have found that utilizing these practices encourages long-term employees to

assist new employees in the safety practices of the company. We also designate a key craft worker on the job as a “safety monitor” responsible for assuring safe working conditions. This individual is empowered to correct any deficiencies in safe work practices.

Additionally, all Orion managers, engineers, superintendents, foremen, and crew leaders receive regular training in all aspects of safety such as fall prevention, scaffolding, hazardous material, traffic safety, rigger training, trench protection, and confined space.



Orion crews removing and disposing AC pipe with proper personal protective equipment (PPE)

6.1.6 Proposed Emergency Response Plan

Prior to the start of construction, Orion will develop and submit to the City, for review and approval, a project-specific written Emergency Response Plan. Orion will observe and comply with the City’s policy of zero hazardous material spills. The Emergency Response Plan shall be developed to respond to any construction-related spill(s). This plan will include identification of all nearby environmentally-sensitive areas such as waterways, channels, catch basins and entrances to existing underground storm drains that could be impacted. An emergency response unit will be stationed near the job site. It is comprised of equipment and trained personnel to be immediately dispatched in the event of a spill.

The emergency response unit can be dispatched to the site anytime, 24 hours a day, seven days a week including weekends and holidays.

Orion will designate primary and secondary representatives with their respective phone numbers, and mobile phone numbers. Orion’s representatives will be accessible and available at all times to respond immediately to any spill event.

In the event of a utility strike, Orion will:

- Secure the area, block access to all unauthorized people.
- Notify the utility.
- Provide a support role to the utility company repair people upon arrival.
- Note: Orion Construction has personnel available 24/7 in the event of emergency utility issues. Orion will keep an on-site assortment of various size pipe repair couplings in the case of such an issue.

Pre-planning:

- Perform a JHA (Job Hazard Analysis) for each expected utility emergency.
- Know where shut-off valves (if applicable) are for each utility.
- Locate utility as best as possible before digging.

Orion is also a listed Emergency contractor for the City of San Diego, and our crews will stay and assist, at the City's request, during any utility type emergency where our services can be useful, or we can prevent further damage to the surrounding areas.

6.1.7 Water Highlining Plan for Each Site

Based on the City's prescription to have the water mains replaced in the same alignment as they currently exist, almost all of the streets will have a highline to maintain uninterrupted service through the life of the project. Orion currently owns a large inventory of NSF approved highline materials and is familiar with Whitebook requirements for the installation and maintenance of highline in the public right-of-way.



High-lining on a Residential Street

Each map site will have a cut and plug plan developed together with a highline plan that will be submitted for approval to the Water Operations Department. During this coordination, we will identify how much of the City's water main system can be taken out of service at any one time. Once coordination is complete the highline is placed in the curb and gutter, pressure tested for leakage, and chlorinated to pass Bac T tests. After successfully passing the Bac T tests the water services will be "transferred" over to the highline so that the Cut and Plugs can take place. The cut and plug operation takes the existing main out of service so that "replace in place" construction can commence. After the new water main is installed, tested, and Bac T tested, the water services are transferred on to the new water main and the highline system is dismantled and picked up.

6.1.8 Phasing Each Site Separately

See section 6.1.1 and 6.1.3 for phasing discussion.

6.1.9 Proposed Construction Schedule

Please see Appendix A for Project Schedule.

6.1.10 Traffic Control Management

After multiple site visits and analysis of the pre-design drawings, Orion developed the following matrices describing traffic control at the three map locations.

Map 1 – Mountain View				
<i>Street/Area</i>	<i>Single Lane Closure W/Flagman</i>	<i>Road Closed to "Thru Traffic" w/Detours</i>	<i>2 Way Traffic Maint. - Shift to one side</i>	<i>Road Closed During Working Hours</i>
Logan Ave	X		X	
"T" St.		X		
Alleys		X		
S. 44th St.				X
HOA Area				X

Map 2 - Encanto Area				
<i>Street/Area</i>	<i>Single Lane Closure W/Flagman</i>	<i>Road Closed to "Thru Traffic" w/Detours</i>	<i>2 Way Traffic Maint. - Shift to one side</i>	<i>Road Closed During Working Hours</i>
Imperial Ave	X		X	
65th St	X	X		
Otay St		X		
Brooklyn Ave		X		
Wunderlin Ave		X		
63rd St	X	X		
Madrone Ave		X		
Shaules Ave		X		
Sullivan Ave		X		
61 St St	X	X		

Map 3 - Skyline/Paradise Hills				
<i>Street/Area</i>	<i>Single Lane Closure W/Flagman</i>	<i>Road Closed to "Thru Traffic" w/Detours</i>	<i>2 Way Traffic Maint. - Shift to one side</i>	<i>Road Closed During Working Hours</i>
Solana St				
Glencoe St	X	X	X	
Koe St		X		
Brennan St		X		X(Cul-De-Sac)
Braddock St		X		X(Cul-De-Sac)

(*Multiple Techinques may be used along the same street depending on traffic flows, or resident/business access with the consent of the Resident Engineer*)

6.1.11 Community Impact

The Orion/Humanability team will implement a multi-faceted approach to community relations for the project, built upon the foundation established by the City of San Diego WHITEBOOK, 2015 Edition 7-16. We will develop a community relations plan for each of the three project sites which will specify targeted stakeholders, key messages, deliverables, and timetables. It will incorporate materials for the City's website, public notices, tracking of inquiries, comments and concerns, presentations to the Community Planning Group, preparation of media items, participation in project team meetings, and regular project updates via newsletter, website or Email to key stakeholders. Orion/Humanability will identify community events that will be analyzed with the team to determine whether a presence at the events will help increase community awareness of the project or facilitate completion of the project. The team will contact project managers for concurrent public construction projects and organizers for events occurring during the construction window, to facilitate coordination and minimize impacts.

The City of San Diego's AC Water and Sewer Group Job 1024 is located in City Council District 4, in the community planning group areas of Mountain View and Encanto. Project alignments impact the Willie Henderson Sports Complex and the Educational Cultural Complex, two important community facilities, as well as the heavily traveled streets of Logan Avenue and Imperial Avenue. While the neighborhood is primarily residential, it includes both single and multi-family buildings, and a few small markets and neighborhood businesses, such as restaurants and barbershops.

Properties within 300 feet of the project alignment will be most impacted by the project, and can be expected to experience some inconvenience due to noise, dust, traffic, parking and staging. See section 6.1.10 above for proposed traffic control measures. Expected impacts also include potential disruption to transit routes and the Encanto 62nd Street Light Rail Station, which is located on the service road to Imperial Avenue.

The D/B team has conducted an extensive survey of location data for the project. The team has thoroughly documented residential districts, business locations, sensitive environmental and recreation areas, schools, parks, and other potentially impacted resources. Project impacts include noise, dust, traffic and parking restrictions to residents, small businesses and community members who utilize the schools and parks near the alignment.

Civic leaders with a known interest in the project include:

- Mayor - Kevin Faulconer
- Community Representative - Darnisha Hunter
- City Council President and District 4 representative - Myrtle Cole
- Southeast Community Representative - Ibrahim Ahmed
- Encanto Community Representative - Pauline De Mesa.

Community Planning Group Contacts include:

- Encanto Neighborhood Community Planning
- Group Chair Kenneth Marlborough
- Southeastern San Diego Planning Group Chair Ray Bernal
- The Black Contractors Association

- Second Chance Joan and Irwin Jacobs Training Center
- Fire/Rescue Station 51

Impacted facilities and stakeholder agencies near the project include:

- Ten K-12 Schools within one-half mile of project alignments
- Educational Cultural Complex
- O'Farrell Charter School and Nye Elementary properties
- Montessori Children's House of Lemon Grove
- Fourteen communities of faith lie within one-half mile of the alignments
- Church of Christ
- Maranatha Church
- Bayview Baptist Church
- Eight parks and community facilities
- Willie Henderson Sports Complex
- Mountain View Beckworth Library
- The Mountain View Park and Recreation Center

Community Coordination

The D/B team will work in close coordination and cooperation with City Staff to allow public input during the design process, including presentations to impacted community groups early in the design process and before construction. The approach includes letters to impacted properties before the design presentations, in areas where trenching will impact surface streets. The team will also consult with City staff to determine whether focus meetings with interested groups of impacted stakeholders or individual outreach to community leaders and other stakeholders, will aid the City in assuring the design process meets the needs of the community.

Outreach materials forwarded to the community will reflect the project schedule, and door hangers will be used to keep the community informed when work resumes. Our crews and office staff will communicate with the residents and businesses in the area to incorporate their needs into our Community Relations Plan. All concerns will be tracked and logged to ensure coordination is consistent throughout the course of the project. This log will be updated on the Project Website and dedicated Project Facebook page.

Staging Area and Project Clean Up

During construction in residential neighborhoods, Orion locates material staging areas such the minimum amount of disruption occurs and are in the location where they are least visible to the community. Staging areas are screened, kept clean and only include the necessities for the given area. Once completed, the staging area is thoroughly cleaned and moved to another location in the neighborhood so that one community member does not have the staging area near their home for the whole duration of the project. Orion will coordinate with the city resident engineer to make sure that the proper permits for trailers and stationary equipment are in place. Orion will also be utilizing its owned South East San Diego construction yard in support of this project. This yard further reduces our public footprint and impacts to the local residents.

Project Clean-up

Once each phase is completed, we will perform a complete cleanup of that phase consisting of:

- Clean up and removal of all stockpiles.
- Clean up and removal of all trash (construction and lunch), daily.
- Relocation of equipment to a subsequent phase.
- Removal of USA mark outs.
- Final asphalt and pavement restorations.
- Removal of all traffic control, cones, and signs.

Residents and Visitors

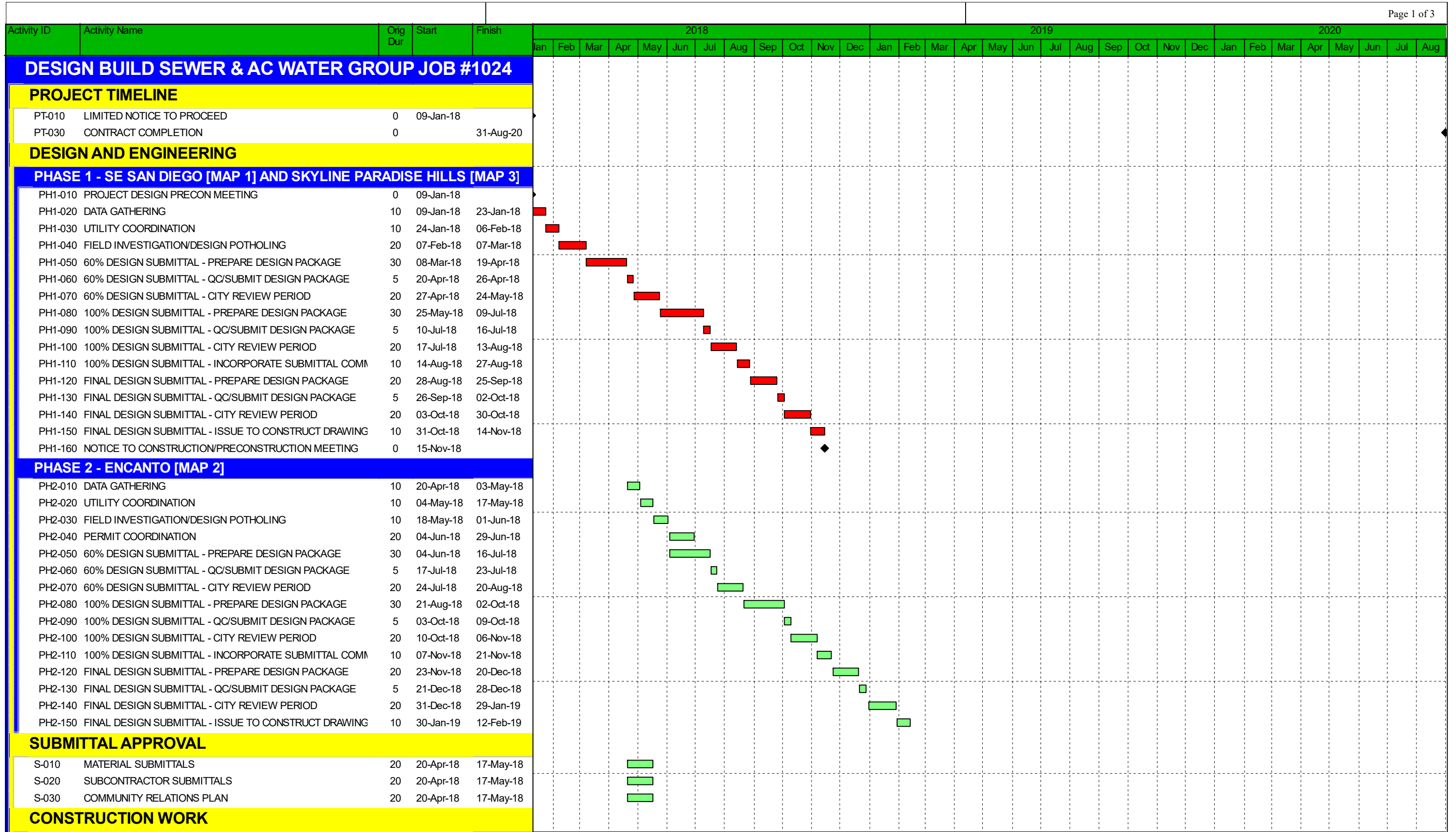
The Orion/Humanability team conducted an extensive survey of location data for the project and thoroughly documented residential districts, business locations, sensitive environmental and recreation areas, schools, parks, and other potentially impacted resources at each of the three project sites. As part of our proposal preparation, the team has identified the following schools, religious centers, and public buildings that will be affected by the project and will require continued coordination throughout the construction of the project:

KEY COMMUNITY STAKEHOLDERS		
Mayor’s Office	Schools	Churches
Mayor Kevin Faulconer	Montessori Lemon Grove	Maranatha Seventh Day Adventist
D4 Community Rep Darnisha Hunter	Monterey Heights Elementary	Church of Christ
	Baker Elementary School	United Missionary Baptist Church
Parks and Community Centers	O’Farrell Charter School	First Samoan Church
Mountain View Beckworth Library	Encanto Elementary School	Victory Outreach Church
Monterey Heights Park	Epiphany Prep Charter School	Shiloh Temple Apostolic Church
Geoge L Stevens Senior Center	Nye Elementary School	Helping Hand Church of God
Martin Luther King Jr. Memorial Park	Valencia Park Elementary School	Grace Unity Missionary Church
Encanto Recreation Center	Fulton Elementary School	Apostolic Faith Garden of Prayer
Encanto Park	Morse High School	Bayview Baptist Church
Willie Henderson Sports Complex	Educational Cultural Complex	La Nuestra Luterana
	San Diego Continuing Ed. School	Wat Lao Boubpharam San Diego
Community Organizations		Sion Centro Cristiano
Black Contractors Association	Public Safety	
Joan and Irwin Jacobs Center	Fire/Rescue Station 51	

Construction Mitigation Plan

Our Construction Mitigation Plan begins with hearing the concerns and needs of the community, as outlined in the Community Outreach and Coordination plans. Unobstructed access at all times to the surrounding businesses and residents is the priority concern. This can be accomplished using trench plates across driveways or carefully planned excavations that only shut down half of a driveway at one time, always leaving access in and out. While working in these areas, only the minimum necessary equipment and staging will be used. All other equipment will be staged out of other Orion yards in San Diego County. This will keep the resident street parking impacts to a minimum. With parking at a premium, we plan to post our “No Park” notices on schedule and keep them updated daily as necessary. Workers park personal vehicles up to two blocks away to free up available parking for residents. Stockpiles will be kept to only what is necessary for the work shift that day, and all demolished material or excavated dirt will be hauled off the street the same day. This keeps parking free and the community clean during construction.

APPENDIX A: SCHEDULE



RUN DATE: 26-Nov-17
 DATA DATE: 09-Jan-18
 PROJECT START DATE: 09-Jan-18
 PROJECT FINISH DATE: 31-Aug-20

CITY OF SAN DIEGO
DESIGN BUILD SEWER AC WATER GROUP JOB #1024

■ Actual Work ◆ Milestone
■ Remaining Work
■ Critical Remaining Work

Activity ID	Activity Name	Orig Dur	Start	Finish	2018												2019												2020							
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
PHASE 1 - SKYLINE PARADISE HILLS [MAP 3]																																				
1000	MOBILIZE	2	15-Nov-18	16-Nov-18																																
1010	USA MARK OUT	5	19-Nov-18	26-Nov-18																																
1020	POTHOLE	5	19-Nov-18	26-Nov-18																																
1030	INSTALL HIGHLINE	15	19-Nov-18	10-Dec-18																																
1031	TEST/FLUSH/BAC-T HIGHLINE	7	11-Dec-18	19-Dec-18																																
1040	DIG/LAY/BACKFILL PVC WATERLINE	30	20-Dec-18	04-Feb-19																																
1050	INSTALL SERVICES, HYDRANTS & BLOW OFFS	30	28-Dec-18	11-Feb-19																																
1060	BASE PAVE TRENCH [CONCURRENT W/ D/L/B]	30	07-Jan-19	19-Feb-19																																
1071	TEST, FLUSH, BAC-T NEW MAIN	7	12-Feb-19	21-Feb-19																																
1080	CUT AND PLUGS EXISTING WATER LINES	5	22-Feb-19	28-Feb-19																																
1090	TIE-IN NEW PIPE	3	01-Mar-19	05-Mar-19																																
1100	REMOVE HIGHLINE	5	01-Mar-19	07-Mar-19																																
1120	STREET RESURFACING	10	08-Mar-19	21-Mar-19																																
1130	CURB RAMPS	5	22-Mar-19	28-Mar-19																																
1140	SIDE WALK/HARDSCAPE PATCHBACK	5	22-Mar-19	28-Mar-19																																
PHASE 2 - SEWER INSTALL SE SAN DIEGO																																				
2000	MOBILIZE	2	08-Mar-19	11-Mar-19																																
2010	USA MARK OUT	5	12-Mar-19	18-Mar-19																																
2030	POTHOLE	5	12-Mar-19	18-Mar-19																																
2040	SEWER SETUP AND BYPASS	5	12-Mar-19	18-Mar-19																																
2050	DIG/LAY/BACKFILL PVC SEWER	20	19-Mar-19	16-Apr-19																																
2060	MANHOLE INSTALLATION	5	17-Apr-19	23-Apr-19																																
2070	SEWER LATERAL AND REPLUMBS	25	24-Apr-19	29-May-19																																
2080	BASE PAVE TRENCH	8	30-May-19	10-Jun-19																																
PHASE 3 - WATER INSTALL SE SAN DIEGO																																				
3000	MOBILIZE	2	30-May-19	31-May-19																																
3010	USA MARK OUT	5	03-Jun-19	07-Jun-19																																
3020	POTHOLE	5	03-Jun-19	07-Jun-19																																
3030	INSTALL HIGHLINE	10	03-Jun-19	14-Jun-19																																
3040	TEST/FLUSH/BAC-T HIGHLINE	7	17-Jun-19	25-Jun-19																																
3050	DIG/LAY/BACKFILL PVC WATERLINE	25	26-Jun-19	31-Jul-19																																
3060	INSTALL SERVICES, HYDRANTS & BLOW OFFS	25	03-Jul-19	07-Aug-19																																
3070	BASE PAVE TRENCH	10	08-Aug-19	21-Aug-19																																
3080	TEST, FLUSH, BAC-T NEW MAIN	7	22-Aug-19	30-Aug-19																																
3090	CUT/PLUG EXISTING WATER LINES	5	03-Sep-19	09-Sep-19																																
3100	TIE-IN NEW PIPE	3	10-Sep-19	12-Sep-19																																
3110	REMOVE HIGHLINE	5	13-Sep-19	19-Sep-19																																
3120	STREET RESURFACING	5	20-Sep-19	26-Sep-19																																
3130	CURB RAMPS	5	27-Sep-19	03-Oct-19																																
3140	SIDEWALK/HARDSCAPE PATCHBACK	5	27-Sep-19	03-Oct-19																																
PHASE 4 - SEWER INSTALL ENCANTO																																				
4000	MOBILIZE	2	20-Sep-19	23-Sep-19																																
4010	USA MARK OUT	5	24-Sep-19	30-Sep-19																																
4020	POTHOLE	5	24-Sep-19	30-Sep-19																																

RUN DATE: 26-Nov-17
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 DESIGN BUILD SEWER AC WATER GROUP JOB #1024**

■ Actual Work ◆ Milestone
■ Remaining Work
■ Critical Remaining Work

APPENDIX B: ADDITIONAL RESUMES

Alex Yescas, PE, CFM, ENV SP

QA/QC MANAGER

Alex Yescas will serve as the QA/QC Manager for the design of the *Otay 2nd Pipeline Phase 2 and AC Woodman Street Pipeline Replacement*.

Alex has 16 years of experience in the design of complex water, sewer, and stormwater facilities. He leads Harris' design-build engineering team that has implemented over 20 miles of pipeline facilities in Southern California. He is a Certified Floodplain Manager, a registered Professional Engineer in the state of California, an Envision Sustainability Professional and the southern director of the Floodplain Management Association.

Alex's relevant experience includes QA/QC review of the Design-Build task orders for the City of San Diego which include: *Catalina Boulevard 12-inch Cast Iron Water Main Replacement* with 24-inch CMLSCS, *AC Water and Sewer Job 1010/1005*, and *Sewer Group Job 743*. Alex led and provided direction to the California Department of Water Resources' multi-objective floodplain risk and analysis tasks throughout California as part of the management team that developed over 200 task orders. Alex is currently leading the design efforts to support Southern California agencies on implementing stormwater facilities that adhere to the California Regional Water Quality Control Board stormwater permits.

RELEVANT EXPERIENCE

- **City of San Diego/Orion Construction, Catalina Cast Iron Water Mains & Catalina Sewer Mains.** QA/QC Manager. QA/QC review for the upsizing of cast-iron and asbestos cement water main between Point Loma Reservoir and Catalina Standpipe in the Point Loma area. Overflow from Catalina Standpipe will be directed to a new 18-inch reinforced concrete pipe main that will connect to the existing storm drain system.
- **City of San Diego/Orion Construction, Meadow Lark/Health Center Drive Water Main.** Project Manager. \$4.6 million replacement and partial realignment of approximately 9,300 LF of existing 18-inch and 24-inch cast iron pipe with new 12-inch and 16-inch polyvinyl chloride water main. Project will abandon approximately 3,400 LF of pipeline. Project consisted of 325 LF of jack-and-bore of water main under SR-163.
- **City of San Diego/Orion Construction, AC Water Group 1010 and AC Water Group 1005.** QA/QC Manager. Managed the replacement of four-, six-, and eight-inch asphalt concrete water mains with eight-inch polyvinyl chloride. Work included paving and ADA ramp upgrades/replacement.
- **City of San Diego/Orion Construction, Sewer Group Job 743.** QA/QC Manager. Sewer rehabilitation at 15 sites. Four sites involve replumbing backyard laterals into new sewers in street right-of-way and the remaining 11 sites involve sewer relining.
- **City of San Diego /Orion Construction, Citywide Stormwater Permanent BMP Retrofit Project.** Project Manager. Alex managed the preparation of Water Quality Technical Reports (WQTRs) at nine sites to support retrofit/redesign to bring the sites into compliance with Region Nine Water Quality Control Board regulations, including applicable requirements of the Draft San Diego BMP Design Manual.
- **City of Del Mar, Citywide Sewer Condition Assessment and Design.** Project Manager. Provided CCTV inspection, assessments, and design of the City's entire 30-mile sewer system including all manholes. Condition assessment outlined millions of dollars in sewer repairs over the next years. The programmatic improvements identified the following categories: upsizes, point repairs, relining, replacements, realignments, manhole upgrades and replacements, and maintenance.
- **City of National City, Sewer Upsizing and Rehabilitation.** Project Manager. Preparing a Pump Station O&M Manual and completing a coordinated design for two urgent sewer projects as one bid package.



EDUCATION

BS, Civil and Environmental Engineering

LICENSES

Professional Civil Engineer, CA

CERTIFICATIONS

Certified Floodplain Manager, Association of State Floodplain Managers

Envision Sustainability Professional, Institute for Sustainable Infrastructure

AFFILIATIONS

American Society of Civil Engineers

Association of State Floodplain Managers

Floodplain Management Association

Jason Arme

2185 La Mirada Drive, Vista, CA 92081
(760) 596-9660

PROFESSIONAL EXPERIENCE

Jason has been involved in the local industry for 10 years. With a background in underground site civil construction starting his career with BRH Garver West, Inc. in 2007 and making the transition to Orion in 2014. Jason has a wide range of involvement at a project specific level. Jason is a part of the management of the direct day to day field operations from the start up period, subcontractor coordination, ensuring the proper installation of underground piping systems and structures along with all surface restoration, project commissioning and close out. Key components of Jason's project involvement focuses on efficiency and bringing a project in on schedule, meeting project milestones within budget and having close communication with company management regarding strategy and project scopes, while working closely with the client ensuring the projects progress and expectations are met and executed at a high level. Below are several projects Jason has been involved in:

KEY RELATED EXPERIENCE

ORION CONSTRUCTION

AUG 2014-PRESENT

- ▶ **NAVFAC Southwest – P-1045 New Potable Water Conveyance**
 - Installation of 50,000 LF of 24" Potable HDPE waterline and appurtenances, along with 7,000 LF of 16" Potable HDPE waterline – Installed via conventional open cut excavation method.
 - Performed 3,000 LF HDD (Horizontal Directional Drill) – 24" HDPE waterline installed at Aliso Creek. Bore reach 50' in depth, with technical compound curve alignment due to existing utility location.
- ▶ **San Diego County Reginal Airport Authority (SDCRAA) – NSU Storm Drain Trunk Project 104118E**
 - Installation of 10,000 LF of 30" and 36" PVC and FPVC Storm Drain Pipeline along active runway by means of conventional open cut method, making connection to existing 60" outfall at San Diego Bay
 - 800 LF 42" Micro-tunnel crossing beneath active Taxiway – 30" Carrier pipe installation
 - Installation of Pump Station and Valve Vault – Depth of 31' – 4 Submersible pump System
 - Continual dewatering efforts throughout project duration due to existing ground water table elevations. Dewatering wells and well points along with 6000 LF of header pipe were used to properly manage the ground water and discharge.

BRH GARVER WEST, INC

JULY 2007-2014

Project Manager/Field Superintendent - Direct management of contract administration, project set up, Sub-Contractor coordination, invoicing review, progress billing, administrative change orders, negotiations and project close out. Involved in overseeing the development of baseline schedules, material take-offs along with the management of manpower and day to day field operations.

- ▶ Eastern Municipal Water District – San Jacinto Valley Interceptor Sewer Project
 - 23,000 LF of 36" and 42" HOBAS pipe
 - 5ea 36" Jack and Bores ranging 180'-250 LF in length
- ▶ City of San Diego Sewer Group 682 Project
 - 14,000 LF 8,10 and 12" sewer installed with the removal and Replacement of existing VCP system
- ▶ City of San Diego Sewer Group 644 Project
 - 8,000 LF 8" sewer installed with removal and replacement of existing VCP system

- ▶ Eastern Municipal Water District – Enchanted Heights Sewer Infrastructure/Lukens Lift Station Project Spec. No. 1162S
 - Involved converting a 500 dwelling community in Perris, CA from septic sewer to a new gravity sewer system.
 - Installed 22,000 LF of new gravity sewer main, 3,000 LF of force main, 500 sewer connection and re-plumbs, along with sewer lift station wet well.
- ▶ City of La Mesa Phase IV Sewer Infiltration/Reduction Project
 - 7,500 LF of removal and replacement of deteriorating VCP sewer system by means of traditional open cut excavation, along with 10,000 LF of sewer replacement by means of pipe bursting due to access restrictions
- ▶ City of Fullerton Cannon Lane/Lemon St. Sewer Replacement Project No. 5156
 - 8,200 LF of new VCP installed via traditional open cut method, due to existing the utility conflicts, 5,000 LF was installed using the pipe bursting method upsizing from 6” to 8” sewer main
- ▶ Eastern Municipal Water District – Spec No. 1214P Normandy Rd. 54” and 30” Pipeline Replacement
 - 54”(recycled water) CMLC and 30”(Brine) CMLC pipelines ran parallel. Utilized 2 temp. line stops with a bypass to keep lines in service with close coordination involving the source treatment facility 1 mile upstream during a limited 8 hr Shut down period
- ▶ San Dieguito Water District/City of Encinitas – 30” Transmission Main Abandonment Project
- ▶ Cal American Water – Hollister Street 20” Water main Replacement
 - Removal and replacement of 6,000 LF existing steel water main with 20” C900
 - Jack and bore method used to cross beneath environmentally sensitive habitat
- ▶ Eastern Municipal Water District – Barton Nandina Interagency Connection 12” Pipeline Phase 2. Spec. No 1124W
 - 19,000 LF of 12”C900 waterline and services, located in the Riverside metropolitan area.
- ▶ Rincon Del Diablo Water District – Via Rancho Pkwy/Sunset Hills/Felicita Waterline Replacement
 - 15,0000 LF of 8”,12” Class 250 Ductile Iron waterline
 - Coordinating closely with the County of San Diego while working on heavily travelled county roadways.
- ▶ City of Oceanside – Mesa Garrison 30”Sewer Force Main Project

ACADEMIC QUALIFICATIONS

- University of Idaho – Bachelor’s Degree 2007
- Colorado School of Mines – Micro Tunneling/Pilot Tube 2008
- OSHA 30 Construction Course
- Trenching & Shoring / Competent Person
- Construction Quality Management for Contractors – Cert # 784 (SE9-04-14-00417) NAVFAC 2014
- CESSWI (Certified erosion, sediment, storm water inspector) & QSP

REFERENCES

Chris George, San Diego Regional Airport Authority Project Manager	(619) 400-2227
Dennis Redger, NAVFAC Engineering Technician	(951) 370-0319
Clay Bomberger, San Diego Regional Airport Authority C.M	(619) 400-2662
Tim Manning, EMWD Construction Manager	(951) 634-5624
Mario Rodriquez, EMWD Inspector	(951) 300-3087

Jason Caprio, PE

CIVIL ENGINEER

Jason Caprio will serve as the Civil Engineer for the design of the *Otay 2nd Pipeline Phase 2 and AC Woodman Street Pipeline Replacement*.

Jason has over 12 years of experience performing engineering design, construction, and project management and administration of water infrastructure projects. His primary experience lies with design and construction of capital infrastructure projects for small and large cities, water districts, sanitation districts, and private water purveyors. Jason's responsibilities and past projects involve water transmission pipelines, water distribution pipelines, water storage facilities, water treatment plants, sewer mains, wastewater treatment plants, storm drains, roadway and streetscape improvements, and ADA compliance.

Jason was lead designer for several City of San Diego Design-Build projects such as the *AC Water and Sewer Group Job 1001*. He has a great understanding of the existing constraints along Woodman Street based on his prior design experience in the area. Jason served as the Project Manager for the replacement of the *Cielo-Woodman Pump Station* and recently as the lead designer for the *Otay 2nd Pipeline Phase 1*, just north of Phase 2 which will serve as our connection point for the improved transmission line.

RELEVANT EXPERIENCE

- **City of San Diego, *Below-Grade Investigation and Sewer Lateral Replumb Design*.** Project Manager and Project Engineer. Responsible for the planning and design phases of the *City Sewer and Water Group Job 701* in the Midtown and Mission Hills neighborhoods. The project included planning, community outreach, below-grade investigations, and design of new water mains, sewer pipelines, and gravity and pump system sewer laterals within public and private rights-of-way.
- **City of San Diego, *Evans Pond Reclaimed Water Retrofit Project*.** Project Manager and Project Engineer. Responsible for the engineering design for the project, which reconfigured the means of supplying a City of San Diego water feature with reclaimed water in lieu of potable water. The project included hydraulic calculations, storm event calculations and reporting, design of new 2.5-inch PVC recycled water pipeline, abandonment of storm drain infrastructure, and related appurtenances.
- **City of Tehachapi, *Downtown Sewer Trunk Main Phase II Design*.** Project Engineer. Responsible for the engineering design, bid, and construction support services for the Downtown Improvements Project. The project included design of new sewer mains, manholes, connections to existing system, and new storm drain improvements.
- **City of Tehachapi, *Tucker Road Sewer Lift Station*.** Project Engineer. Responsible for the engineering design, bid, and construction support services for the project, which was an associated project related to development of the Love's Travel Store and adjacent properties. The project included design of gravity sewer mains, force mains, wet well caisson, submersible pumping system, and connection to existing sewer system.
- **East Niles Community Services District, *Morning Drive Pipeline System Expansion*.** Project Engineer. Responsible for the engineering design, bid, and construction support services for the project, which allowed for additional development and incorporated smaller water communities. The project included design of new 16-inch PVC water pipeline, pressure reducing valve stations, service connections, and related appurtenances.
- **Lakeside Union School District, *Water Supply Project*.** Project Engineer. Responsible for the engineering design for the project, which allowed the campus to convert groundwater supply wells to exclusively irrigation and to provide potable water demand via a 14-inch PVC water pipeline (City of Bakersfield). The project included design of new 14-inch PVC water pipeline, jack and bore crossing of feeder canals, system configuration and conversions, service connections, and related appurtenances.



EDUCATION

BS, Civil Engineering

LICENSES

Professional Civil Engineer, CA

AFFILIATIONS

American Society of Civil Engineers

WaterReuse, San Diego Chapter

Diane Sandman, AICP

ENVIRONMENTAL COMPLIANCE

Diane Sandman has 16 years of experience in environmental sciences and planning. She has worked extensively on California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) compliance documents, including environmental impact reports (EIRs) and Mitigated Negative Declarations (MNDs) for numerous water/sewer and master plan projects.

Diane has been responsible for permitting coordination with resource agencies including the US Army Corps of Engineers (USACE), US Fish and Wildlife Service (USFWS), California Coastal Commission (CCC), California Department of Fish and Wildlife (CDFW), and the San Diego Regional Water Quality Control Board (RWQCB). Diane has worked on a wide variety of water and wastewater projects for the City of San Diego and other local agencies. Examples of projects she's worked on include *Carmel Valley Trunk Sewer*, *Otay Mesa Trunk Sewer*, *Pala Water Pipeline*, and *Otay Water District Master Plan*. She has reviewed the CEQA documentation for the project and understands the applicable City's Multiple Species Conservation Program (MSCP) requirements. Diane is also an instructor for the Environmental Assessment Practices course at the University of San Diego.

RELEVANT EXPERIENCE

- **City of San Diego, Otay Mesa Trunk Sewer Program EIR.** Assistant Project Manager. Prepared the draft and final programmatic EIR documents for this 14.7-mile sewer infrastructure project in the Otay Mesa Community, with portions of the project in San Ysidro. The EIR addressed biology, cultural resources, air quality, construction traffic, land use, and other issues
- **City of San Diego, Carmel Valley Trunk Sewer Replacement IS/MND.** Assistant Project Manager. Replacement of 2.63 miles of existing trunk sewer. Diane assisted with documenting the environmental impacts.
- **County of San Diego, Property Specific Requests Subsequent Program EIR.** Project Manager. Preparation of the SEIR for the GPA. To ensure the proposed GPA for the 44 PSRs comply with CEQA, the SEIR evaluated the environmental impacts and mitigation measures associated with the PSRs.
- **San Diego Unified Port District, Tenth Avenue Marine Terminal EIR Support Services.** Harris is assisting the Port in developing a section to mitigate stormwater runoff and develop conceptual alternatives to support a Programmatic EIR. This work is being carried out to support the Port with a TIGER grant received. The work will support the design and construction of water quality BMPs along the improved marine terminal.
- **City of La Mesa, La Mesa Sewer Repair and Replacement MND and CEQA Plus Requirements.** Project Manager. Replaced 100,000 LF of sewer pipelines to correct sewer overflows due to wet weather inflow and infiltration. IS/MND and technical studies (air quality, biological resources, and cultural resources) complied with federal CEQA Plus requirements.
- **City of La Mesa, Alvarado Trunk Sewer Upgrade MND.** Project Manager. Installed 1,800 LF of sewer trunk main to replace existing sewer trunk main located in the Alvarado Creek channel. Performed wetland delineation. Prepared and obtained a USACE 404 permit, RWQCB 401 certification, and CDFW 1602 Streambed Alteration Agreement.
- **City of Vista, Comprehensive Sewer Master Plan Program EIR.** Project Director. Prepared air quality, greenhouse gas emissions/energy, land use and noise sections.
- **City of El Cajon, Johnson Avenue Trunk Sewer MND.** Project Manager. Diane managed the IS/MND and supporting technical studies. The document will be prepared in conformance with State Water Resources Board CEQA Plus requirements.



EDUCATION

BA, Environmental Studies

CERTIFICATIONS

Certified EIR Preparer, County of San Diego

Certified Planner, American Institute of Certified Planners

AFFILIATIONS

American Planning Association

California Association of Environmental Professionals, Chapter President (2006-2010)

APPENDIX C: ECOP

NAICS NAICS_Description

- 236210 Industrial Building Construction
- 237990 Other Heavy and Civil Engineering Construction
- 238220 Plumbing, Heating, and Air-Conditioning Contractors

AIRX Utility Services, Inc. Phone: (760) 480-2347 Fax: (760) 739-8034

Gail McMorran Gmcmorran@airxus.com

License Type	Business Status
A	Small
C-31	Small

NOTE: Locating, Potholing with hydro-excavation and vacuum, traffic control, survey, mapping and documentation for existing underground utilities.

541360 Geophysical Surveying and Mapping Services

541690 Other Scientific and Technical Consulting Services

Alectrics Inc. Phone: (619) 334-7136 Fax: (619) 334-7136

Sergei A. Lupenko alupenko@yahoo.com

License Type	Business Status
C-10	Emerging

NOTE: Electrical commercial and industrial construction. New construction-upgrades, repairs, remodels

238210 Electrical Contractors

Alliance Consulting International Phone: (619) 297-1469 Fax:

Enrique Medina emedina@pulse-point.com

License Type	Business Status
Goods/Services	Emerging

NOTE: Environmental, Health and Safety Consulting Services

541620 Environmental Consulting Services

541690 Other Scientific and Technical Consulting Services

Allied Geotechnical Engineers, Inc. Phone: (619) 449-5900 Fax: (619) 449-5902

Tiong J. Leim tj_liem@alliedgeo.org

License Type	Business Status
GEO	Small

NOTE: Geotechnical Engineering Services (soil mechanics, geology, engineering geology, hydrogeology and geo-environmental)

541330 Engineering Services

541620 Environmental Consulting Services

541380 Testing Laboratories

NAICS NAICS_Description

Berggren Land Surveying & Mapping, Inc. DBA Berggren & Associates Phone: (858) 824-0034 Fax: (858) 824-0036

John R. Berggren J.Berggren@prodigy.net

License Type	Business Status
LS	Emerging

NOTE: Land Surveying and Mapping

541370 Surveying and Mapping (except Geophysical) Services

Bert W. Salas, Inc. Phone: (619) 562-7711 Fax: (619) 258-3515

Bob E. Salaz bsalaz@bertsalasinc.com

License Type	Business Status
A	Small

NOTE: Grading, flood control, water, sewer and storm drain construction.

237310 Highway, Street, and Bridge Construction

238910 Site Preparation Contractors

Beyaz & Patel, Inc. DBA Beyaz & Patel Phone: (858) 451-0374 Fax: (858) 271-9932

Subhash Patel spatel@beyazpatel.com

License Type	Business Status
CSD-12	Small

NOTE: Prime and subconsultant for the design and construction related services of water, wastewater, transit, transportation and building projects.

541340 Drafting Services

541330 Engineering Services

Black IPO Phone: (619) 527-1668 Fax: (619) 527-1698

Wendell Stemley Wrstemley@aol.com

License Type	Business Status
C-08	Small

NOTE: Construction management, project material & installation

541611 Administrative Management and General Management Consulting Services

Black Sage Environmental, Inc. Phone: (619) 876-0745 Fax:

Jason W. Allen jallen@blacksageenvironmental.com

License Type	Business Status
C-27	Emerging

NOTE: Natural Resource Management and Environmental Protection

541620 Environmental Consulting Services

561730 Landscaping Services

NAICS NAICS_Description

Paradigm Environmental, Inc

Phone: (619) 564-6906 Fax:

Stephen Carter steve@paradigmh2o.com

License Type	Business Status
CSD-12	Small

NOTE: Stormwater and Water Quality Engineering, watershed strategic planning, modeling, and web-based tools.

541330 Engineering Services

541620 Environmental Consulting Services

Patterson Engineering, Inc.

Phone: (858) 605-0937 Fax: (858) 605-1414

Curtis Patterson Curtis@pattersoneng.com

License Type	Business Status
CSD-12	Emerging

NOTE: Professional Services

541340 Drafting Services

541330 Engineering Services

Paul Astwood DBA PRA International

Phone: (619) 229-1990 Fax: (425) 920-8960

Paul Astwood paul@pratech.com

License Type	Business Status
No License	Small

NOTE: In business since 1992 PRA International is a small Value Added Reseller serving the SMB, corporate, education, and public sectors.

423420 Office Equipment Merchant Wholesalers

423410 Photographic Equipment and Supplies Merchant Wholesalers

Paula Roberts DBA Humanability

Phone: (619) 794-6406 Fax: (858) 384-2681

Paula Roberts paula@humanability.biz

License Type	Business Status
Goods/Services	Emerging

NOTE: Community Liaison, Stakeholder Workshops, Meeting Facilitation, Public Outreach, Community Relations

541820 Public Relations Agencies

Payneco Specialties, Inc. DBA Payco Specialties

Phone: (619) 422-9204 Fax: (619) 427-1620

Rebecca Llewellyn rebecca@payco.biz

License Type	Business Status
C-32	Small

NOTE: Specialty Construction

238990 All Other Specialty Trade Contractors

237310 Highway, Street, and Bridge Construction

NAICS NAICS_Description

Koloa Pacific Pipeline Corp

Phone: (858) 748-2841 Fax:

Stephanie Vargas stephanie@koloapacific.com

License Type	Business Status
A	Emerging

NOTE: Underground Utilities

237110 Water and Sewer Line and Related Structures Construction

KPA Associates, Inc

Phone: (619) 725-0980 Fax: (619) 725-0988

Andy Bowen andybowen@kpaa.com

License Type	Business Status
ARC	Small
ARC	Small

NOTE: Architectural Design and Remodel, Forensic Expert Witness, Construction Consulting

541310 Architectural Services

KRD Management Consulting, LLC

Phone: (951) 440-2809 Fax:

Krill Dolinskiy krill.dolinskiy@krdmanagement.com

License Type	Business Status
Goods/Services	Emerging

NOTE: Program Management, Project Management, Governance, PMO, Risk/ Change Management, Cost Estimating, Scheduling, Development of Project Delivery Models

541618 Other Management Consulting Services

Krystal L. Merial DBA KLM Project Insights

Phone: (760) 424-9334 Fax:

Krystal L. Merial Mericalkl@gmail.com

License Type	Business Status
Goods/Services	Emerging

NOTE: Project Controls (schedule and cost) services for projects and programs.

541611 Administrative Management and General Management Consulting Services

L.C. Paving & Sealing, Inc.

Phone: (760) 752-1743 Fax: (760) 752-1674

Jose Salinas marisa@lcpaving.com

License Type	Business Status
A	Small
B	Small
C-12	Small

NOTE: ALL PHASE OF ASPHALT PAVING AND CONCRETE.

237310 Highway, Street, and Bridge Construction

237990 Other Heavy and Civil Engineering Construction

238110 Poured Concrete Foundation and Structure Contractors

238910 Site Preparation Contractors

NAICS NAICS_Description

JDS Plumbing & Mechanical

Phone: (760) 477-7967 Fax: (760) 512-1664

Jeff Shaposhnick jeffshaposhnick@cox.net

License Type	Business Status
A	Emerging
B	Emerging
C-20	Emerging
C-36	Emerging
C-46	Emerging

NOTE: Plumbing, Mechanical, Site Utilities

238220 Plumbing, Heating, and Air-Conditioning Contractors

Jenal Engineering Corporation

Phone: (619) 697-2200 Fax: (619) 697-2400

Jennifer Westermeyer Jenalinc@cox.net

License Type	Business Status
A	Small
HAZ	Small

NOTE: General construction and installation; removal & repair of above & below ground fuel & waste oil storage tanks-piping and components. Testing and compliance.

237120 Oil and Gas Pipeline and Related Structures Construction

Jennette Company, Inc

Phone: (858) 583-2893 Fax:

Brian Jennette brianjennette@yahoo.com

License Type	Business Status
A	Emerging
B	Emerging

NOTE: Water Wastewater Contracting/Supplier/Consulting

541330 Engineering Services

Jerusalem Construction DBA Miramar General Engineering

Phone: (858) 663-4933 Fax: (858) 408-7191

Ala (Alex) Mohammad Alex@MiramarGeneral.com

License Type	Business Status
A	Emerging

NOTE: With over 20 years in combined staff experience, Miramar General Engineering is ready to provide owners, public agencies and other clients with top tier services in Flat Work, underground, and infrastructure construction.

237310 Highway, Street, and Bridge Construction

JL StormWater Consultants, Inc.

Phone: (619) 938-2420 Fax: (619) 334-6750

Jane Ledford jane@jlstormwater.com

License Type	Business Status
Goods/Services	Emerging

NOTE: Environmental Consulting Services, SWPPP, WPCP, Lead Compliance Plans, Environmental Protection Plans, Industrial SWPPP Services, SWPPP Training

NAICS NAICS_Description

Paradigm Environmental, Inc

Phone: (619) 564-6906 Fax:

Stephen Carter steve@paradigmh2o.com

License Type	Business Status
CSD-12	Small

NOTE: Stormwater and Water Quality Engineering, watershed strategic planning, modeling, and web-based tools.

541330 Engineering Services

541620 Environmental Consulting Services

Patterson Engineering, Inc.

Phone: (858) 605-0937 Fax: (858) 605-1414

Curtis Patterson Curtis@pattersoneng.com

License Type	Business Status
CSD-12	Emerging

NOTE: Professional Services

541340 Drafting Services

541330 Engineering Services

Paul Astwood DBA PRA International

Phone: (619) 229-1990 Fax: (425) 920-8960

Paul Astwood paul@pratech.com

License Type	Business Status
No License	Small

NOTE: In business since 1992 PRA International is a small Value Added Reseller serving the SMB, corporate, education, and public sectors.

423420 Office Equipment Merchant Wholesalers

423410 Photographic Equipment and Supplies Merchant Wholesalers

Paula Roberts DBA Humanability

Phone: (619) 794-6406 Fax: (858) 384-2681

Paula Roberts paula@humanability.biz

License Type	Business Status
Goods/Services	Emerging

NOTE: Community Liaison, Stakeholder Workshops, Meeting Facilitation, Public Outreach, Community Relations

541820 Public Relations Agencies

Payneco Specialties, Inc. DBA Payco Specialties

Phone: (619) 422-9204 Fax: (619) 427-1620

Rebecca Llewellyn rebecca@payco.biz

License Type	Business Status
C-32	Small

NOTE: Specialty Construction

238990 All Other Specialty Trade Contractors

237310 Highway, Street, and Bridge Construction

NAICS NAICS_Description

QSB Construction Phone: (888) 600-1748 Fax: (760) 432-0300
 Alicia Lowery Alicia.lowery@qsbconstruction.com

License Type	Business Status
B	Small

NOTE: General Contractor/Sub-Contractor, we self perform site concrete and minor structural concrete
 238110 Poured Concrete Foundation and Structure Contractors
 238120 Structural Steel and Precast Concrete Contractors

Quality Construction & Engineering, Inc. Phone: (714) 585-1505 Fax:
 Mohammad Qahoush qualityengineering@gmail.com

License Type	Business Status
A	Small
B	Small

NOTE: AC Paving, Site Concrete & Underground Utilities. Building Construction
 238990 All Other Specialty Trade Contractors

Quality Infrastructure Corporation Phone: (619) 741-9400 Fax:
 Kirk F. Bradbury kbradbury@qualityinfrastructure.com

License Type	Business Status
CSD-12	Small

NOTE: Civil Engineering Services focusing on Transportation Engineering
 541330 Engineering Services

R & M Plumbing Contractors, Inc. Phone: (619) 504-6520 Fax: (619) 324-7760
 Randy Merkel Randmplumbing@cox.net

License Type	Business Status
A	Emerging
C-36	Emerging

NOTE: Plumbing & Site Utilities for new and remodel construction
 238220 Plumbing, Heating, and Air-Conditioning Contractors

Rancho Coastal Engineering & Surveying, Inc. Phone: (760) 510-3152 Fax: (760) 510-3153
 Nora Logan Nora@rcesd.com

License Type	Business Status
CSD-12	Emerging

NOTE: Civil Structural Engineering, Surveying, Land Planning, Grading Plans
 541330 Engineering Services

RAP Engineering, Inc. Phone: (760) 233-2980 Fax: (760) 233-2984
 Robert Perez rperez@rapenginc.com

License Type	Business Status
A	Small

NOTE: Asphalt paving and grading

NAICS NAICS_Description

Southland Surveying, Inc. Phone: (858) 792-5550 Fax: (858) 792-5576

Scott Fitch company@southlandsurveying.com

License Type	Business Status
LS	Small

NOTE: Land surveying, construction staking, topographic and aerial mapping

541370 Surveying and Mapping (except Geophysical) Services

Southwest Geophysics, Inc. Phone: (858) 527-0849 Fax: (858) 225-0114

Hans Van De Vrugt info@southwestgeophysics.com

License Type	Business Status
CSD-21	Small
GEO	Small

NOTE: Geologist - Professional Geophysical Services

541360 Geophysical Surveying and Mapping Services

Southwest Traffic Signal Service Phone: (619) 442-3343 Fax: (619) 442-4708

Vernon B. Cress dlebeau@southwestsignal.com

License Type	Business Status
A	Small
B	Emerging
C-10	Emerging

NOTE: Installation and maintenance of traffic signals and street lights

238210 Electrical Contractors

Spears and Ernst, LLC DBA SPECS Phone: (858) 790-1445 Fax: (858) 724-1198

Amanda Ernst aernst@specscivilsolutions.com

License Type	Business Status
Goods/Services	Emerging

NOTE: SPECS is a supplier of civil construction materials including such material as precast arch culverts, precast box culverts, metal, plastic, and pvc pipe, earth stabilization, and hard armor

423510 Metal Service Centers and Other Metal Merchant Wholesalers

423990 Other Miscellaneous Durable Goods Merchant Wholesalers

Speedway Constructors, Inc. Phone: (619) 819-7565 Fax: (619) 819-7565

William Forero Williamf@speedwayci.com

License Type	Business Status
B	Emerging
A	Emerging

NOTE:

236210 Industrial Building Construction

237990 Other Heavy and Civil Engineering Construction

NAICS NAICS_Description

VNuIT, LLC Phone: (760) 576-6214 Fax:

Paramjyoti Kakileti pkakileti@vnuit.com

License Type	Business Status
Goods/Services	Emerging

NOTE: VNuIT provides dedicated IT Consulting services in Project Management, Quality Assurance, Geographic Information System (GIS), Software Design & Development and System Integration.

- 541512 Computer Systems Design Services
- 541511 Custom Computer Programming Services
- 541519 Other Computer Related Services

VO Engineering, Inc. Phone: (858) 391-8530 Fax:

Evan Wayne Olin nick.tracy@vo-eng.com

License Type	Business Status
CSD-12	Emerging
CSD-20	Small

NOTE: Provides traditional geotechnical consultation as well as structure foundation system design, forensic investigations, natural slope assesments, pavement studies and other specialized services

- 541330 Engineering Services
- 541360 Geophysical Surveying and Mapping Services

Webbege, Inc. Phone: (619) 786-2456 Fax:

Francis Geraci frank.geraci@webbege.com

License Type	Business Status
Goods/Services	Emerging

NOTE: We deliver a leading-edge approach that helps organizations optimize web based services. Our proven approach reduces inefficiencies and focuses on providing optimized solutions for challenging service requirements.

- 541511 Custom Computer Programming Services

Well Done Rooter and Plumbing Services, Inc Phone: (619) 869-4073 Fax:

Jorge Martinez welldonerooter@yahoo.com

License Type	Business Status
C-36	Emerging

NOTE: Plumbing and drain service

- 238220 Plumbing, Heating, and Air-Conditioning Contractors

West Coast Civil, Inc. Phone: (858) 869-1332 Fax: (858) 761-0001

Anthony Gonzalez anthony@westcoastcivil.com

License Type	Business Status
CSD-12	Emerging

NOTE: Civil Engineering services specializing in Land Development, Land Planning, Water-Waste Water Development, Public Improvements

- 541330 Engineering Services

Supplier Profile
State of California Certification



Certification ID : 38082

Legal Business Name
G SCOTT ASPHALT INC

Doing Business As (DBA) Name1:
G SCOTT ASPHALT INC

Doing Business As (DBA) Name2:

Office Phone Number
619/420-1854

Business Fax Number
619/420-1859

Business Web Address
<http://www.asphaltrepairs.com> ()

Service Areas
Imperial , San Diego

Address
358 TROUSDALE DR
CHULA VISTA
CA 91910-1045

Email:
Dru@asphaltrepairs.com (<mailto:Dru@asphaltrepairs.com>)

Total No. of Employees
19

Business Types:
Construction

Notification Preference
Email

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Active Certifications ?

Certification Type	Status	From	To
DVBE	Approved	11/30/2016	11/30/2018
SB	Approved	11/30/2016	11/30/2018

Certification History ?

Certification Type	Application Date	Status	Status Date/Time	From	To
DVBE	11/11/2013	Expired	11/11/13 12:00AM	12/04/2013	11/30/2016
SB(Micro)	11/11/2013	Expired	11/11/13 12:00AM	11/11/2013	11/30/2016

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[\(http://www.fiscal.ca.gov/\)](http://www.fiscal.ca.gov/)

Supplier Profile
State of California Certification



Certification ID : 50000

Legal Business Name
DRAVES PIPELINE INCORPORATED

Doing Business As (DBA) Name1:

Doing Business As (DBA) Name2:

Office Phone Number
760/728-7094

Business Fax Number
760/728-0086

Business Web Address
<http://www.dravespipeline.com> ()

Service Areas
Imperial , Riverside , San Bernardino , San Diego

Address
PO BOX 1051
BONSALL
CA 92003

Email:
dale@dravespipeline.com (mailto:dale@dravespipeline.com)

Total No. of Employees
6

Business Types:
Construction , Service

Notification Preference
Email

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Active Certifications ?

Certification Type	Status	From	To
DVBE	Approved	05/05/2017	05/31/2019
SB	Approved	05/05/2017	05/31/2019

Certification History ?

Certification Type	Application Date	Status	Status Date/Time	From	To
DVBE	06/05/2013	Expired	05/05/17 10:16AM	06/17/2013	05/05/2017
SB(Micro)	06/05/2013	Expired	05/05/17 10:23AM	06/17/2013	05/05/2017

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Supplier Profile
State of California Certification



Certification ID : 49756

Legal Business Name SCST INC	Address 6280 Riverdale Street San Diego CA 92120
Doing Business As (DBA) Name1: SCST INC	
Doing Business As (DBA) Name2:	Email: lkatz@scst.com (mailto:lkatz@scst.com)
Office Phone Number 619/280-4321	Total No. of Employees 73
Business Fax Number 619/280-4717	Business Types: Service
Business Web Address www.scst.com ()	Notification Preference Email

Service Areas

Alameda , Alpine , Amador , Butte , Calaveras , Colusa , Contra Costa , Del Norte , El Dorado , Fresno , Fresno , Glenn , Humboldt , Imperial , Imperial , Inyo , Kern , Kings , Lake , Lassen , Los Angeles , Los Angeles , Madera , Marin , Mariposa , Mendocino , Merced , Modoc , Mono , Monterey , Napa , Nevada , Orange , Orange , Placer , Plumas , Riverside , Riverside , Sacramento , Sacramento , San Benito , San Bernardino , San Bernardino , San Diego , San Diego , San Francisco , San Francisco , San Joaquin , San Luis Obispo , San Mateo , Santa Barbara , Santa Clara , Santa Cruz , Shasta , Sierra , Siskiyou , Solano , Sonoma , Stanislaus , Sutter , Tehama , Trinity , Tulare , Tuolumne , Ventura , Yolo , Yuba

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[View Classifications](#)

Active Certifications ?

Certification Type	Status	From	To
DVBE	Approved	12/08/2016	12/31/2018

Certification History ?

Certification Type	Application Date	Status	Status Date/Time	From	To
SB	07/02/2013	Expired	01/03/17 9:52AM	07/18/2013	12/31/2016
DVBE	12/16/2013	Expired	12/11/15 1:41PM	12/27/2013	12/28/2016

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