

# City of San Diego

CONTRACTOR'S NAME: KTA Construction, Inc.

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CITY CONTACT: TaylorCox, Contract Specialist, Email: [TJCox@sandiego.gov](mailto:TJCox@sandiego.gov)

Phone No. (619) 533-3033

G. Torres / R. Puertollano / I. Garcia

## BIDDING DOCUMENTS



**FOR**

## HOTEL CIRCLE CI AND AC ACCELERATED REPLACEMENT

BID NO.: K-19-1846-DBB-3  
SAP NO. (WBS/IO/CC): B-18235  
CLIENT DEPARTMENT: 2000  
COUNCIL DISTRICT: 7  
PROJECT TYPE: KB

**THIS CONTRACT WILL BE SUBJECT TO THE FOLLOWING:**

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

**BID DUE DATE:**

**2:00 PM**

**MAY 15, 2019**

**CITY OF SAN DIEGO'S ELECTRONIC BIDDING SITE, PLANETBIDS**

<http://www.sandiego.gov/cip/bidopps/index.shtml>

**ENGINEER OF WORK**

The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Engineer:

Marc Weinberger  
1) Registered Engineer

4/5/19  
Date

Seal:



Brian Vitelle  
2) For City Engineer

4/8/19  
Date

Seal:



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## NOTICE INVITING BIDS

1. **SUMMARY OF WORK:** This is the City of San Diego's (City) solicitation process to acquire Construction services for **Hotel Circle CI and AC Accelerated Replacement**. For additional information refer to Attachment A.
2. **FULL AND OPEN COMPETITION:** This solicitation is subject to full and open competition and may be bid by Contractors on the City's approved Prequalified Contractors List. For information regarding the Contractors Prequalified list visit the City's web site: <http://www.sandiego.gov>
3. **ESTIMATED CONSTRUCTION COST:** The City's estimated construction cost for this project is **\$2,175,000**.
4. **BID DUE DATE AND TIME ARE: May 15, 2019 at 2:00 PM**
5. **PREVAILING WAGE RATES APPLY TO THIS CONTRACT:** Refer to Attachment D.
6. **LICENSE REQUIREMENT:** To be eligible for award of this contract, Prime contractor must possess the following licensing classification: **A**
7. **SUBCONTRACTING PARTICIPATION PERCENTAGES:** Subcontracting participation percentages apply to this contract.
  - 7.1. The City has incorporated **mandatory** SLBE-ELBE subcontractor participation percentages to enhance competition and maximize subcontracting opportunities. For the purpose of achieving the mandatory subcontractor participation percentages, a recommended breakdown of the SLBE and ELBE subcontractor participation percentages based upon certified SLBE and ELBE firms has also been provided to achieve the mandatory subcontractor participation percentages:

1. SLBE participation	<b>9.1%</b>
2. ELBE participation	<b>13.2%</b>
3. Total mandatory participation	<b>22.3%</b>
  - 7.2. The Bid may be declared non-responsive if the Bidder fails to meet the following requirements:
    - 7.2.1. Include SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; **OR**
    - 7.2.2. Submit Good Faith Effort documentation, saved in searchable Portable Document Format (PDF) and stored on Compact Disc (CD) or Digital Video Disc (DVD), demonstrating the Bidder made a good faith effort to outreach to and include SLBE-ELBE Subcontractors required in this document within 3 Working Days of the Bid opening if the overall mandatory participation percentage is not met.

**8. AWARD PROCESS:**

- 8.1. The Award of this contract is contingent upon the Contractor's compliance with all conditions of Award as stated within these documents and within the Notice of Intent to Award.
- 8.2. Upon acceptance of bids and determination of the apparent low bidder, the City will prepare the contract documents for execution within approximately 21 days of the date of the bid opening. The City will then award the contract upon receipt of properly signed Contract, bonds, and insurance documents.
- 8.3. This contract will be deemed executed and effective only upon the signing of the Contract by the Mayor or his designee and approval as to form by the City Attorney's Office.
- 8.4. The low Bid will be determined by the Base Bid plus all the Alternates.
- 8.5. Once the low bid has been determined, the City may, at its sole discretion, award the contract for the Base Bid alone; or for the Base Bid plus one or more alternates.

**9. SUBMISSION OF QUESTIONS:**

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

Public Works Contracts  
525 B Street, Suite 750 (7<sup>th</sup> Floor)  
San Diego, California, 92101  
Attention: Taylor Cox

OR:

[TJCox@sandiego.gov](mailto:TJCox@sandiego.gov)

- 9.2. Questions received less than 14 days prior to the date for opening of Bids may not be considered.
- 9.3. 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.
- 9.4. Only questions answered by formal written addenda shall be binding. Oral and other interpretations or clarifications shall be without legal effect. It is the Bidder's responsibility to be informed of any addenda that have been issued and to include all such information in its Bid.

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

**11. ADDITIVE/DEDUCTIVE ALTERNATES:**

- 11.1.** The additive/deductive alternates have been established to allow the City to compare the cost of specific portions of the Work with the Project's budget and enable the City to make a decision whether to incorporate these portions prior to award. The award will be established as described in the Bid. The City reserves the right to award the Contract for the Base Bid only or for the Base Bid plus one or more Alternates.
- 11.2.** For water pipeline projects, the Plans typically show all cut and plug and connection work to be performed by City Forces. However, Bidders shall refer to Bidding Documents to see if all or part of this work will be performed by the Contractor.

## INSTRUCTIONS TO BIDDERS

### 1. PREQUALIFICATION OF CONTRACTORS:

- 1.1. Contractors submitting a Bid must be pre-qualified for the total amount proposed, including all alternate items, prior to the date of submittal. Bids from contractors who have not been pre-qualified as applicable and Bids that exceed the maximum dollar amount at which contractors are pre-qualified may be deemed **non-responsive** and ineligible for award.
- 1.2. The completed application must be submitted online no later than 2 weeks prior to the bid opening.
- 1.3. **Joint Venture Bidders Cumulative Maximum Bidding Capacity:** For projects with an engineer's estimate of \$30,000,000 or greater, Joint Ventures submitting bids may be deemed responsive and eligible for award if the cumulative maximum bidding capacity of the individual Joint Venture entities is equal to or greater than the total amount proposed.
  - 1.3.1. Each of the entities of the Joint Venture must have been previously prequalified at a minimum of \$15,000,000.
  - 1.3.2. Bids submitted with a total amount proposed of less than \$30,000,000 are not eligible for Cumulative Maximum Bidding Capacity prequalification. To be eligible for award in this scenario, the Joint Venture itself or at least one of the Joint Venture entities must have been prequalified for the total amount proposed.
  - 1.3.3. Bids submitted by Joint Ventures with a total amount proposed of \$30,000,000 or greater on a project with an engineer's estimate of less than \$30,000,000 are not eligible for Cumulative Maximum Bidding Capacity prequalification.
  - 1.3.4. The Joint Venture designated as the Apparent Low Bidder shall provide evidence of its corporate existence and furnish good and approved bonds in the name of the Joint Venture within 14 Calendar Days of receipt by the Bidder of a form of contract for execution.
- 1.4. Complete information and links to the on-line prequalification application are available at:

<http://www.sandiego.gov/cip/bidopps/prequalification>
- 1.5. 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 BIDS:** Bids 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. BIDDERS MUST BE PRE-REGISTERED** with the City's bidding system and possess a system-assigned Digital ID in order to submit an electronic bid.

**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.** The City's electronic bidding system is responsible for bid tabulations. Upon the bidder's or proposer's entry of their bid, the system will ensure that all required fields are entered. **The system will not accept a bid 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. BIDS REMAIN SEALED UNTIL BID DEADLINE.** eBids 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. Bids submitted prior to the "Bid Due Date and Time" are not available for review by anyone other than the submitter who has until the "Bid Due Date and Time" to change, rescind or retrieve its proposal should it desire to do so.

**2.5. BIDS MUST BE SUBMITTED BY BID DUE DATE AND TIME.** Once the bid deadline is reached, no further submissions are accepted into the system. Once the Bid Due Date and Time has lapsed, 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, EOCB compliance and other issues. The City may require any Bidder to furnish statement of experience, financial responsibility, technical ability, equipment, and references.

**2.6. RECAPITULATION OF THE WORK.** Bids shall not contain any recapitulation of the Work. Conditional Bids may be rejected as being non-responsive. Alternative proposals will not be considered unless called for.



**2.7. BIDS MAY BE WITHDRAWN** by the Bidder only up to the bid due date and time.

**2.7.1. Important Note:** Submission of the electronic bid 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 their bids are received on time by the City's eBidding system. The City of San Diego is not responsible for bids that do not arrive by the required date and time.

**2.8. 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 on the cover of this solicitation at least five (5) working days prior to the Bid/Proposal due date to ensure availability.

**3. ELECTRONIC BID SUBMISSIONS CARRY FULL FORCE AND EFFECT**

**3.1.** The bidder, by submitting its electronic bid, 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 bid, the bidder certifies that the bidder 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 bid proposal, the bidder 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 Bidder, by submitting its electronic bid, 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 bid are true and correct.

**3.4.** The Bidder agrees to the construction of the project as described in Attachment "A-Scope of Work" for the City of San Diego, in accordance with the requirements set forth herein for the electronically submitted prices. The Bidder guarantees the Contract Price for a period of 120 days from the date of Bid opening. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent.

**4. BIDS ARE PUBLIC RECORDS:** Upon receipt by the City, Bids 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 Bid. 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. CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM:**

**5.1. Prior** to the Award of the Contract or Task Order, you and your Subcontractors and Suppliers must register with the City's web-based vendor registration and bid management system. For additional information go to:

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

**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.

**6. JOINT VENTURE CONTRACTORS:** Provide a copy of the Joint Venture agreement and the Joint Venture license to the City within 14 Calendar Days after receiving the Contract forms.

**7. INSURANCE REQUIREMENTS:**

**7.1.** All certificates of insurance and endorsements required by the contract are to be provided upon issuance of the City's Notice of Intent to Award letter.

**7.2.** Refer to sections 5-4, "INSURANCE" of the Supplementary Special Provisions (SSP) for the insurance requirements which must be met.

**8. 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") <a href="http://www.greenbookspecs.org/">http://www.greenbookspecs.org/</a>	2018	PWPI010119-01
City of San Diego Standard Specifications for Public Works Construction ("The WHITEBOOK")* <a href="https://www.sandiego.gov/publicworks/edocref/greenbook">https://www.sandiego.gov/publicworks/edocref/greenbook</a>	2018	PWPI010119-02
City of San Diego Standard Drawings* <a href="https://www.sandiego.gov/publicworks/edocref/standarddraw">https://www.sandiego.gov/publicworks/edocref/standarddraw</a>	2018	PWPI010119-03
Citywide Computer Aided Design and Drafting (CADD) Standards <a href="https://www.sandiego.gov/publicworks/edocref/drawings">https://www.sandiego.gov/publicworks/edocref/drawings</a>	2018	PWPI010119-04

Title	Edition	Document Number
California Department of Transportation (CALTRANS) Standard Specifications – <a href="http://www.dot.ca.gov/des/oe/construction-contract-standards.html">http://www.dot.ca.gov/des/oe/construction-contract-standards.html</a>	2018	PWPI030119-05
CALTRANS Standard Plans <a href="http://www.dot.ca.gov/des/oe/construction-contract-standards.html">http://www.dot.ca.gov/des/oe/construction-contract-standards.html</a>	2018	PWPI030119-06
California Manual on Uniform Traffic Control Devices Revision 3 (CA MUTCD Rev 3) <a href="http://www.dot.ca.gov/trafficops/camutcd/">http://www.dot.ca.gov/trafficops/camutcd/</a>	2014	PWPI030119-07
<p><b>NOTE:</b>           *Available online under Engineering Documents and References at: <a href="http://www.sandiego.gov/publicworks/edocref/index.shtml">http://www.sandiego.gov/publicworks/edocref/index.shtml</a></p> <p>*Electronic updates to the Standard Drawings may also be found in the link above</p>		

9. **CITY'S RESPONSES AND ADDENDA:** The City, at its discretion, 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. The changes to the Contract Documents through addenda are made effective as though originally issued with the Bid. The Bidders shall acknowledge the receipt of Addenda at the time of bid submission.
10. **CITY'S RIGHTS RESERVED:** The City reserves the right to cancel the Notice Inviting Bids at any time, and further reserves the right to reject submitted Bids, without giving any reason for such action, at its sole discretion and without liability. Costs incurred by the Bidder(s) as a result of preparing Bids under the Notice Inviting Bids shall be the sole responsibility of each bidder. The Notice Inviting Bids creates or imposes no obligation upon the City to enter a contract.
11. **CONTRACT PRICING:** This solicitation is for a Lump Sum contract with Unit Price provisions as set forth herein. The Bidder agrees to perform construction services for the City of San Diego in accordance with these contract documents for the prices listed below. The Bidder further agrees to guarantee the Contract Price for a period of 120 days from the date of Bid opening. The duration of the Contract Price guarantee may be extended, by mutual consent of the parties, by the number of days required for the City to obtain all items necessary to fulfill all contractual conditions.
12. **SUBCONTRACTOR INFORMATION:**
- 12.1. **LISTING OF SUBCONTRACTORS.** In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act" of the California Public Contract Code, the Bidder shall provide the **NAME** and **ADDRESS** of each Subcontractor who will perform work, labor, render services or who specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also state within the description, whether the

subcontractor is a **CONSTRUCTOR, CONSULTANT** or **SUPPLIER**. The Bidder shall state the **DIR REGISTRATION NUMBER** for all subcontractors and shall further state within the description, the **PORTION** of the work which will be performed by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement may result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - Section 3-2, "SELF-PERFORMANCE", which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors for which Bidders are seeking recognition towards achieving any mandatory, voluntary (or both) subcontracting participation goals.

Additionally, pursuant to California Senate Bill 96 and in accordance with the requirements of Labor Code sections 1771.1 and 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 California Department of Industrial Relations (DIR). **The Bidder shall provide the name, address, license number, DIR registration number of any Subcontractor - regardless of tier** - who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement pursuant to the contract.

**12.2. LISTING OF SUPPLIERS.** Any Bidder seeking the recognition of Suppliers of equipment, materials, or supplies obtained from third party Suppliers towards achieving any mandatory or voluntary (or both) subcontracting participation goals shall provide, at a minimum, the **NAME, LOCATION (CITY), DIR REGISTRATION NUMBER** and the **DOLLAR VALUE** of each supplier. The Bidder will be credited up to 60% of the amount to be paid to the Suppliers for materials and supplies unless vendor manufactures or substantially alters materials and supplies, in which case, 100% will be credited. The Bidder is to indicate within the description whether the listed firm is a supplier or manufacturer. If no indication is provided, the listed firm will be credited at 60% of the listed dollar value for purposes of calculating the Subcontractor Participation Percentage.

**12.3. LISTING OF SUBCONTRACTORS OR SUPPLIERS FOR ALTERNATES.** For subcontractors or suppliers to be used on additive or deductive alternate items, in addition to the above requirements, bidder shall further note "ALTERNATE" and alternate item number within the description.

**13. SUBMITTAL OF "OR EQUAL" ITEMS:** See Section 4-6, "Trade Names" in The WHITEBOOK and as amended in the SSP.

**14. AWARD:**

- 14.1.** The Award of this contract is contingent upon the Contractor's compliance with all conditions precedent to Award.
- 14.2.** Upon acceptance of a Bid, the City will prepare contract documents for execution within approximately 21 days of the date of the Bid opening and award the Contract approximately within 7 days of receipt of properly executed Contract, bonds, and insurance documents.
- 14.3.** This contract will be deemed executed and effective only upon the signing of the Contract by the Mayor or his designee and approval as to form the City Attorney's Office.

**15. SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 3-2, "SELF-PERFORMANCE" in The GREENBOOK and as amended in the SSP which requires the Contractor to self-perform not less than the specified amount. Failure to comply with this requirement shall render the bid **non-responsive** and ineligible for award.

**16. AVAILABILITY OF PLANS AND SPECIFICATIONS:** 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 the City Clerk or Public Works Contracts.

**17. ONLY ONE BID PER CONTRACTOR SHALL BE ACCEPTED:** No person, firm, or corporation shall be allowed to make, file, or be interested in more than one (1) Bid for the same work unless alternate Bids are called for. A person, firm or corporation who has submitted a sub-proposal to a Bidder, or who has quoted prices on materials to a Bidder, is not hereby disqualified from submitting a sub-proposal or quoting prices to other Bidders or from submitting a Bid in its own behalf. Any Bidder who submits more than one bid will result in the rejection of all bids submitted.

**18. SAN DIEGO BUSINESS TAX CERTIFICATE:** The Contractor and 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 and submit to the Contract Specialist upon request or as specified in the Contract Documents. Tax Identification numbers for both the Bidder and the listed Subcontractors must be submitted on the City provided forms within these documents.

**19. BIDDER'S GUARANTEE OF GOOD FAITH (BID SECURITY) FOR DESIGN-BID-BUILD CONTRACTS:**

- 19.1.** For bids \$250,000 and above, bidders shall submit Bid Security at bid time. Bid Security shall be in one of the following forms: a cashier's check, or a properly certified check upon some responsible bank; or an approved corporate surety bond payable to the City of San Diego for an amount of not less than 10% of the total bid amount.

- 19.2. This check or bond, and the monies represented thereby, will be held by the City as a guarantee that the Bidder, if awarded the contract, will in good faith enter into the contract and furnish the required final performance and payment bonds.
- 19.3. The Bidder agrees that in the event of the Bidder's failure to execute this contract and provide the required final bonds, the money represented by the cashier's or certified check will remain the property of the City; and the Surety agrees that it will pay to the City the damages, not exceeding the sum of 10% of the amount of the Bid, that the City may suffer as a result of such failure.
- 19.4. At the time of bid submission, bidders must upload and submit an electronic PDF copy of the aforementioned bid security. Whether in the form of a cashier's check, a properly certified check or an approved corporate surety bond payable to the City of San Diego, the bid security must be uploaded to the City's eBidding system. Within twenty-four (24) hours after the bid due date and time, the first five (5) apparent low bidders must provide the City with the original bid security.
- 19.5. Failure to submit the electronic version of the bid security at the time of bid submission AND failure to provide the original within twenty-four (24) hours may cause the bid to be rejected and deemed **non-responsive**.

**20. AWARD OF CONTRACT OR REJECTION OF BIDS:**

- 20.1. This contract may be awarded to the lowest responsible and reliable Bidder.
- 20.2. Bidders shall complete ALL eBid forms as required by this solicitation. Incomplete eBids will not be accepted.
- 20.3. The City reserves the right to reject any or all Bids, to waive any informality or technicality in Bids received, and to waive any requirements of these specifications as to bidding procedure.
- 20.4. Bidders will not be released on account of their errors of judgment. Bidders may be released only upon receipt by the City within 3 Working Days of the bid opening, written notice from the Bidder which shows proof of honest, credible, clerical error of a material nature, free from fraud or fraudulent intent; and of evidence that reasonable care was observed in the preparation of the Bid.
- 20.5. A bidder who is not selected for contract award may protest the award of a contract to another bidder by submitting a written protest in accordance with the San Diego Municipal Code.
- 20.6. The City of San Diego will not discriminate in the award of contracts with regard to race, religion creed, color, national origin, ancestry, physical handicap, marital status, sex or age.

**20.7.** Each Bid package properly signed as required by these specifications shall constitute a firm offer which may be accepted by the City within the time specified herein.

**20.8.** The City reserves the right to evaluate all Bids and determine the lowest Bidder on the basis of the base bid and any proposed alternates or options as detailed herein.

**21. BID RESULTS:**

**21.1.** The availability of the bids on the City's eBidding system shall constitute the public announcement of the apparent low bidder. In the event that the apparent low bidder is subsequently deemed non-responsive or non-responsible, a notation of such will be made on the eBidding system. The new ranking and apparent low bidder will be adjusted accordingly.

**21.2.** To obtain the bid 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 bid name and number. The bid tabulations will be mailed to you upon their completion. The results will not be given over the telephone.

**22. THE CONTRACT:**

**22.1.** The Bidder to whom award is made shall execute a written contract with the City of San Diego and furnish good and approved bonds and insurance certificates specified by the City within 14 days after receipt by Bidder of a form of contract for execution unless an extension of time is granted to the Bidder in writing.

**22.2.** If the Bidder takes longer than 14 days to fulfill these requirements, then the additional time taken shall be added to the Bid guarantee. The Contract shall be made in the form adopted by the City, which includes the provision that no claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.

**22.3.** If the Bidder to whom the award is made fails to enter into the contract as herein provided, the award may be annulled and the Bidder's Guarantee of Good Faith will be subject to forfeiture. An award may be made to the next lowest responsible and reliable Bidder who shall fulfill every stipulation embraced herein as if it were the party to whom the first award was made.

**22.4.** Pursuant to the San Diego City Charter section 94, the City may only award a public works contract to the lowest responsible and reliable Bidder. The City will require the Apparent Low Bidder to (i) submit information to determine the Bidder's responsibility and reliability, (ii) execute the Contract in form provided by the City, and (iii) furnish good and approved bonds and insurance certificates specified by the City within 14

Days, unless otherwise approved by the City, in writing after the Bidder receives notification from the City, designating the Bidder as the Apparent Low Bidder and formally requesting the above mentioned items.

- 22.5.** The award of the Contract is contingent upon the satisfactory completion of the above-mentioned items and becomes effective upon the signing of the Contract by the Mayor or designee and approval as to form by the City Attorney's Office. If the Apparent Low Bidder does not execute the Contract or submit required documents and information, the City may award the Contract to the next lowest responsible and reliable Bidder who shall fulfill every condition precedent to award. A corporation designated as the Apparent Low Bidder shall furnish evidence of its corporate existence and evidence that the officer signing the Contract and bond for the corporation is duly authorized to do so.
- 23. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK:** The Bidder shall examine carefully the Project Site, the Plans and Specifications, other materials as described in the Special Provisions, Section 3-9, "TECHNICAL STUDIES AND SUBSURFACE DATA", and the proposal forms (e.g., Bidding Documents). The submission of a Bid shall be conclusive evidence that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of Work, the quantities of materials to be furnished, and as to the requirements of the Bidding Documents Proposal, Plans, and Specifications.
- 24. CITY STANDARD PROVISIONS:** This contract is subject to the following standard provisions. See The WHITEBOOK for details.
- 24.1.** The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
- 24.2.** The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
- 24.3.** The City of San Diego Municipal Code §22.3004 for Contractor Standards.
- 24.4.** The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
- 24.5.** 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.
- 24.6.** The City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).
- 24.7.** The City's Information Security Policy (ISP) as defined in the City's Administrative Regulation 90.63.



**25. PRE-AWARD ACTIVITIES:**

- 25.1.** The contractor selected by the City to execute a contract for this Work shall submit the required documentation as specified in the herein and in the Notice of Award. Failure to provide the information as specified may result in the Bid being rejected as **non-responsive**.
- 25.2.** The decision that bid is non-responsive for failure to provide the information required within the time specified shall be at the sole discretion of the City.

Executed in three original counterparts.

## **PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND**

---

### **FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:**

KTA Constuction, Inc., a corporation, as principal, and The Guarantee Company of North America USA, 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 **two million five hundred fifty five thousand two hundred sixty two dollars and fifty cents (\$2,555,262.50)** for the faithful performance of the annexed contract, and in the sum of **two million five hundred fifty five thousand two hundred sixty two dollars and fifty cents (\$2,555,262.50)** for the benefit of laborers and materialmen designated below.

#### **Conditions:**

If the Principal shall faithfully perform the annexed contract with the City of 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, LABOR AND MATERIALMEN'S BOND (continued)**

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

Dated June 24, 2019

Approved as to Form


KTA Construction, Inc.

Principal

By 

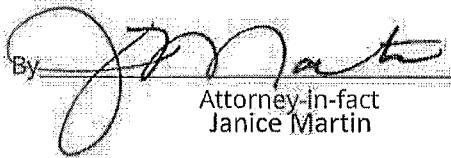
Paul M. Hewason  
Printed Name of Person Signing for Principal

Mara W. Elliott, City Attorney

By   
Deputy City Attorney

The Guarantee Company of North America USA

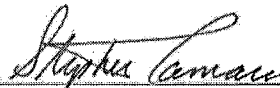
Surety

By   
Attorney-in-fact  
Janice Martin

Approved:

1800 Sutter Street, Suite 880

Local Address of Surety

By   
Stephen Samara  
Principal Contract Specialist  
Public Works Contracts

Concord, CA 94520

Local Address (City, State) of Surety

(818) 936-2845

Local Telephone No. of Surety

Premium \$ 22,387.00

Premium subject to adjustment based on final contract price.

Bond No. 12109275

**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 San Diego

On JUN 24 2019 before me, Sarah Myers, Notary Public,  
Date Insert Name of Notary exactly as it appears on the official seal

personally appeared Janice Martin  
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/~~it~~/~~they~~ executed the same in ~~his~~/her/~~its~~/~~their~~ authorized capacity(~~ies~~), and that by ~~his~~/her/~~its~~/~~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 Sarah Myers  
Signature of Notary Public

Place Notary Seal Above

**OPTIONAL**

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of the form to another 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: \_\_\_\_\_

- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_

**RIGHT THUMBPRINT OF SIGNER**  
Top of thumb here

Signer is Representing:  
Surety Company

Signer's Name: \_\_\_\_\_

- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_

**RIGHT THUMBPRINT OF SIGNER**  
Top of thumb here

Signer is Representing:  
\_\_\_\_\_  
\_\_\_\_\_



The Guarantee Company of North America USA  
Southfield, Michigan

POWER OF ATTORNEY

KNOW ALL BY THESE PRESENTS: That THE GUARANTEE COMPANY OF NORTH AMERICA USA, a corporation organized and existing under the laws of the State of Michigan, having its principal office in Southfield, Michigan, does hereby constitute and appoint

Lawrence F. McMahon, Maria Vhanneza Guise, Sarah Myers, James D. Castle, Janice Martin  
Alliant Insurance Services, Inc.

its true and lawful attorney(s)-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise.

The execution of such instrument(s) in pursuance of these presents, shall be as binding upon THE GUARANTEE COMPANY OF NORTH AMERICA USA as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at the principal office.

The Power of Attorney is executed and may be certified so, and may be revoked, pursuant to and by authority of Article IX, Section 9.03 of the By-Laws adopted by the Board of Directors of THE GUARANTEE COMPANY OF NORTH AMERICA USA at a meeting held on the 31<sup>st</sup> day of December, 2003. The President, or any Vice President, acting with any Secretary or Assistant Secretary, shall have power and authority:

- 1. To appoint Attorney(s)-in-fact, and to authorize them to execute on behalf of the Company, and attach the Seal of the Company thereto, bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof; and
2. To revoke, at any time, any such Attorney-in-fact and revoke the authority given, except as provided below
3. In connection with obligations in favor of the Florida Department of Transportation only, it is agreed that the power and authority hereby given to the Attorney-in-Fact includes any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts required by the State of Florida Department of Transportation. It is fully understood that consenting to the State of Florida Department of Transportation making payment of the final estimate to the Contractor and/or its assignee, shall not relieve this surety company of any of its obligations under its bond.
4. In connection with obligations in favor of the Kentucky Department of Highways only, it is agreed that the power and authority hereby given to the Attorney-in-Fact cannot be modified or revoked unless prior written personal notice of such intent has been given to the Commissioner - Department of Highways of the Commonwealth of Kentucky at least thirty (30) days prior to the modification or revocation.

Further, this Power of Attorney is signed and sealed by facsimile pursuant to resolution of the Board of Directors of the Company adopted at a meeting duly called and held on the 6th day of December 2011, of which the following is a true excerpt:

RESOLVED that the signature of any authorized officer and the seal of the Company may be affixed by facsimile to any Power of Attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, contracts of indemnity and other writings obligatory in the nature thereof, and such signature and seal when so used shall have the same force and effect as though manually affixed.



IN WITNESS WHEREOF, THE GUARANTEE COMPANY OF NORTH AMERICA USA has caused this instrument to be signed and its corporate seal to be affixed by its authorized officer, this 2<sup>nd</sup> day of October, 2015.

THE GUARANTEE COMPANY OF NORTH AMERICA USA

[Signature of Stephen C. Ruschak]

[Signature of Randall Musselman]

STATE OF MICHIGAN  
County of Oakland

Stephen C. Ruschak, President & Chief Operating Officer

Randall Musselman, Secretary

On this 2nd day of October, 2015 before me came the individuals who executed the preceding instrument, to me personally known, and being by me duly sworn, said that each is the herein described and authorized officer of The Guarantee Company of North America USA; that the seal affixed to said instrument is the Corporate Seal of said Company; that the Corporate Seal and each signature were duly affixed by order of the Board of Directors of said company.



Cynthia A. Takai  
Notary Public, State of Michigan  
County of Oakland  
My Commission Expires February 27, 2024  
Acting in Oakland County

IN WITNESS WHEREOF, I have hereunto set my hand at The Guarantee Company of North America USA offices the day and year above written.

[Signature of Cynthia A. Takai]

I, Randall Musselman, Secretary of THE GUARANTEE COMPANY OF NORTH AMERICA USA, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney executed by THE GUARANTEE COMPANY OF NORTH AMERICA USA, which is still in full force and effect.



IN WITNESS WHEREOF, I have thereunto set my hand and attached the seal of said Company this 24<sup>th</sup> day of June, 2019

[Signature of Randall Musselman]

Randall Musselman, Secretary

## ATTACHMENTS

**ATTACHMENT A**  
**SCOPE OF WORK**

## SCOPE OF WORK

1. **SCOPE OF WORK:** The replacement of existing asbestos cement and cast iron water mains with new steel water main via tunneling method and PVC water main via replace-in-place. Associated improvements will include curb ramps, street resurfacing and other work and appurtenances.
  - 1.1. The Work shall be performed in accordance with:
    - 1.1.1. The Notice Inviting Bids and Plans numbered **41025-1-D** through **41025-15-D**, and traffic control plans **41025-16-D (T-1)** through **41025-27-D (T-12)**, inclusive.
2. **LOCATION OF WORK:** The location of the Work is as follows:

See **Appendix E** - Location Map
3. **CONTRACT TIME:** The Contract Time for completion of the Work shall be **230 Working Days**.



**ATTACHMENT B**  
**PHASED FUNDING PROVISIONS**

## PHASED FUNDING PROVISIONS

### 1. PRE-AWARD

- 1.1. Within 10 Working Days of the Notice of Intent to Award, the Contractor 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 7-3, "PAYMENT."
- 1.2. Contractor's failure to perform any of the following may result cancelling the 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 **thirty** days of meeting with the City's Project Manager.

### 2. POST-AWARD

- 2.1. Do not start any construction activities for the next phase until the Notice to Proceed (NTP) has been issued by the City. The City will issue a separate NTP for each phase.
- 2.2. The City may issue the NTP for a subsequent phase before the completion of the preceding phase.

**PHASED FUNDING SCHEDULE AGREEMENT**

The particulars left blank below, 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-19-1846-DBB-3

**CONTRACT OR TASK TITLE:** Hotel Circle CI and AC Accelerated Replacement

**CONTRACTOR:** KTA Construction, Inc.

Funding Phase	Phase Description	Phase Start	Phase Finish	Not-to-Exceed Amount
1	Work to be completed in Phase 1 shall include, Bonds, Mobilization, Project Initiation, Water Main Installation via tunnel operation and open trench installation with associated appurtenances, and all associated work such as ADA improvements, Traffic Control, Testing, Street Resurfacing, and implementation of BMPs.	NTP	NOC	\$2,555,262.50
2	N/A			\$0
Contract Total				\$2,555,262.50

**Notes:**

- 1) WHITEBOOK section 7-3.10, "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: YOFTANE GHILIAMICHAEL  
**Construction Manager**

PRINT NAME: Paul M. Henderson

Signature: [Signature]

Title: President

Date: 7/15/19

Signature: [Signature]

PRINT NAME: Gabriel Torres  
**Project Manager**

Date: 7-10-2019

Signature: [Signature]

Date: 7/15/19

**ATTACHMENT C**

**RESERVED**

**ATTACHMENT D**  
**PREVAILING WAGES**

## 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. This shall be in addition to any other applicable penalties allowed under Labor Code sections 1720 – 1861.

- 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.** Contractor and their subcontractors shall also 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 contractors 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 Prevailing Wage Unit at 858-627-3200.

- 1.9. Contractor and Subcontractor Registration Requirements.** This project is subject to compliance monitoring and enforcement by the DIR. A contractor or subcontractor shall not be qualified to bid on, be listed in a bid or proposal, subject to the requirements of section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.
- 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.
- 1.9.2.** 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 for themselves and all listed subcontractors to the City at the time of bid or proposal due date or upon request.
- 1.10. Stop Order.** For Contractor or its subcontractors engaging in the performance of any public work contract without having been registered in violation of Labor Code sections 1725.5 or 1771.1, the Labor Commissioner shall issue and serve a stop order prohibiting the use of the unregistered contractors or unregistered subcontractor(s) on ALL public works until the unregistered contractor or unregistered subcontractor(s) is registered. Failure to observe a stop order is a misdemeanor.
- 1.11. List of all Subcontractors.** The Contractor shall provide the list of subcontractors (regardless of tier), along with their DIR registration numbers, utilized on this Contract prior to any work being performed; and the Contractor shall provide a complete list of all subcontractors with each invoice. Additionally, Contractor shall provide the City with a complete list of all subcontractors (regardless of tier) utilized on this contract within ten working days of the completion of the contract, along with their DIR registration numbers. The City shall withhold final payment to Construction Management Professional until at least thirty (30) days after this information is provided to the City.
- 1.12. Exemptions for Small Projects.** There are limited exemptions for installation, alteration, demolition, or repair work done on projects of \$25,000 or less. The Contractor shall still comply with Labor Code sections 1720 et. seq. The only recognized exemptions are listed below:



- 1.12.1.** Registration. The Contractor will not be required to register with the DIR for small projects. (Labor Code section 1771.1).
- 1.12.2.** Certified Payroll Records. The records required in Labor Code section 1776 shall be required to be kept and submitted to the City of San Diego, but will not be required to be submitted online with the DIR directly. The Contractor will need to keep those records for at least three years following the completion of the Contract. (Labor Code section 1771.4).
- 1.12.3.** List of all Subcontractors. The Contractor shall not be required to hire only registered subcontractors and is exempt from submitting the list of all subcontractors that is required in section 4.20.11 above. (Labor code section 1773.3).

**ATTACHMENT E**  
**SUPPLEMENTARY SPECIAL PROVISIONS**

## **SUPPLEMENTARY SPECIAL PROVISIONS**

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

1. The **2018 Edition** of the Standard Specifications for Public Works Construction (The "GREENBOOK").
2. The **2018 Edition** of the City of San Diego Standard Specifications for Public Works Construction (The "WHITEBOOK"), including the following:
  - a) General Provisions (A) for all Construction Contracts.

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### **SECTION 1 - GENERAL, 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 **8:30 AM to 3:30 PM**, unless stated otherwise on the Traffic Control Plan.

### **SECTION 2 - SCOPE OF THE WORK**

- 2-2.2 Caltrans Encroachment Permit.** To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. You shall apply and obtain the Caltrans Encroachment Permit.
  - a) You shall pay for and secure the permit prior to construction.
  - b) You shall arrange and pay for inspection as required by Caltrans.

- 2-2.3 Payment.** To the "WHITEBOOK", item 2, DELETE in its entirety and SUBSTITUTE with the following:

2. The payment for applying and obtaining the Caltrans Encroachment Permit shall be included in the Allowance Bid item for "**Caltrans Encroachment Permit**", see **Appendix H**, and shall include preparing plans and addressing Caltrans comments.

## SECTION 3 – CONTROL OF THE WORK

**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. The self performance percentage requirement will be waived for Prime Contractors meeting the Class B License requirement of this Contract.

**3-8.7 Contractor’s Quality Control Plan (QCP).** To the “WHITEBOOK”, ADD the following:

7. The establishment and implementation of a Quality Control Plan (QCP), as defined in the standard specifications, shall be required for this Contract. See example in **Appendix F**.

**3-9 TECHNICAL STUDIES AND SUBSURFACE DATA.** To the “WHITEBOOK”, ADD the following:

5. In preparation of the Contract Documents, the designer has relied upon the following reports of explorations and tests at the Work Site:
  - a) Geotechnical Report dated May 11, 2004 by SOTA Environmental Technology, Inc.
6. The reports listed above are available for review at the following link:

<https://filecloud.sandiego.gov/url/9cvw8taqseyma7iz>

**3-12.1 General.** To the “WHITEBOOK”, ADD the following:

2. You shall provide a PM-10 certified self-loading motorized street sweeper equipped with a functional water spray system for this project.
3. You shall sweep all paved areas within the Work site and all paved haul routes as specified below:
  - a) Every Friday on a weekly basis.
  - b) 1 Working Day prior to each rain event.
  - c) As directed by the Engineer.

If these requirements would require you to sweep on a Holiday or Weekend, then you shall sweep the next available Working Day prior to that Holiday or Weekend.

**3-12.7 Drinking Water Discharges Requirements.** To the "WHITEBOOK", ADD the following:

1. You shall record the results for each discharge event on the City's Drinking Water Discharge Monitoring form included as **Appendix G - Monthly Drinking Water Discharge Monitoring Form.**

**3-12.8.8 Payment.** To the "WHITEBOOK", ADD the following:

9. Submit supporting invoices and a Schedule of Values for the Lump Sum Bid item for "Dewatering Hazardous Contaminated Water" in accordance with 7-2.1, "Schedule of Values (SOV)". The SOV shall itemize the Work to show the following:
  - a) All costs associated with handling contaminated groundwater specified in 3-12.8.6, "Dewatering System", and 3-12.8.7, "Hazardous Waste Operations and Emergency Response (HAZWOPER) Certificate".
  - b) All costs associated with equipment used for dewatering hazardous contaminated groundwater, including costs for mobilization and demobilization.
  - c) All rental and operating costs for equipment used for dewatering contaminated groundwater.

**3-13.3 Warranty.** To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. You shall warranty and repair all defective materials and workmanship for a period of 1 year. This call back warranty period shall start on the date the Work was accepted by the City unless the City had beneficial use of the project (excluding water, sewer, and storm drain projects). In addition, you shall warranty the Work against all latent defects for a period of 10 years and patent defects for a period of 4 years.

#### **SECTION 4 - CONTROL OF MATERIALS**

**4-1.3.4 Specialty Inspection Paid for by the Contractor.** To the "WHITEBOOK", ADD the following:

2. The specialty inspections required are listed as follows:
  - a) Welding.
  - b) Structural Concrete.

**4-3.6 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.

**4-6 TRADE NAMES.** To the "WHITEBOOK", ADD the following:

11. You shall submit your list of proposed substitutions for an "equal" item **no later than 5 Working Days after the determination of the Apparent Low Bidder** and on the City's Product Submittal Form available at:

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

## **SECTION 5 – LEGAL RELATIONS AND RESPONSIBILITIES**

**5-4 INSURANCE.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

**5-4 INSURANCE.**

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

**5-4.1 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.

**5-4.2 Types of Insurance.**

**5-4.2.1 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

**5-4.2.2 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.

**5-4.2.3 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.

#### **5-4.2.4**

#### **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.

**5-4.3 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.

**5-4.3.1 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.

**5-4.4 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.

**5-4.5 Policy Endorsements.**

**5-4.5.1 Commercial General Liability Insurance.**

**5-4.5.1.1 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.

**5-4.5.1.2 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.

**5-4.5.1.3 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.

**5-4.5.2 Commercial Automobile Liability Insurance.**

**5-4.5.2.1 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.

**5-4.5.3 Contractors Pollution Liability Insurance Endorsements.**

**5-4.5.3.1 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.

**5-4.5.3.2 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.

**5-4.5.3.3 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.

**5-4.5.4 Contractors Hazardous Transporters Pollution Liability Insurance Endorsements.**

**5-4.5.4.1 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.

**5-4.5.4.2 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.

**5-4.5.4.3 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.

**5-4.6 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.

**5-4.7 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.

**5-4.8 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.

**5-4.9 Excess Insurance.** Policies providing excess coverage shall follow the form of the primary policy or policies e.g., all endorsements.

**5-4.10 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.

**5-4.11 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.

**5-4.11.1. 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:**

**5-10.1.3 Weekly Updates Recipients.**

1. Submit a weekly correspondence with updates, traffic control issues and locations, lane closures, and any other pertinent information (with additional contact names given during award process) to the following recipients:

Brian Vitelle, Senior Engineer, [BVitelle@sandiego.gov](mailto:BVitelle@sandiego.gov)

Gabriel Torres, Project Manager, [GTorres@sandiego.gov](mailto:GTorres@sandiego.gov)

Roy Ganzon, Project Engineer, [RGanzon@sandiego.gov](mailto:RGanzon@sandiego.gov)

Resident Engineer, TBA, [XXX@sandiego.gov](mailto:XXX@sandiego.gov)

**5-10.3 Exclusive Community Liaison Services.** To the "WHITEBOOK", ADD the following:

2. You shall retain an Exclusive Community Liaison for the Project that shall implement Work in accordance with the specifications described in 5-10.2 "Community Outreach Services" and 5-10.3 "Exclusive Community Liaison Services".

**5-13 ELECTRONIC COMMUNICATION.** To the "WHITEBOOK", ADD the following:

2. Virtual Project Manager shall be used on this Contract. For more information, refer to the VPM training videos at the location below:

<https://www.sandiego.gov/publicworks/edocref>

**SECTION 6 – PROSECUTION AND PROGRESS OF THE WORK**

**6-1.1 Construction Schedule.** To the "WHITEBOOK", item 1, subsection "s", DELETE in its entirety and SUBSTITUTE with the following:

- s) Submit an updated cash flow forecast with every pay request (for each Project ID or WBS number provided in the Contract) showing periodic and cumulative construction billing amounts for the duration of the Contract Time. If there has been any Extra Work since the last update, include only the approved amounts.
  - i. Refer to the Sample City Invoice materials in **Appendix D – Sample City Invoice with Cash Flow Forecast** and use the format shown.
  - ii. See also the "Cash Flow Forecast Example" at the location below:

<https://www.sandiego.gov/publicworks/edocref>

**6-1.5.2 Excusable Non-Compensable Delays.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

**6-1.5.2 Excusable Non-Compensable and Concurrent Delay.** The City shall only issue an extension of time for Excusable Delays that meet the requirements of 6-4.2, "Extensions of Time" for the following circumstances:

- a) Delays resulting from Force Majeure.
- b) Delays caused by weather.

- c) Delays caused by changes to County, State, or Federal law.
- 1. When a non-excusable delay is concurrent with an Excusable Delay, you shall not be entitled to an extension of Contract Time for the period the non-excusable delay is concurrent with the Excusable Delay.
- 2. When an Excusable Non-Compensable Delay is concurrent with an Excusable Compensable Delay, you shall be entitled to an extension of Contract Time, but shall not be entitled to compensation for the period the Excusable Non-Compensable Delay is concurrent with the Excusable Compensable Delay.

**6-4.2**

**Extensions of Time.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

- 1. The Contract Time shall not be modified except by Change Order.
- 2. You shall notify the City in writing within **1 Working Day** after the occurrence and discovery of an event that impacts the Project Schedule.
  - a) If you believe this event requires a Change Order, you shall submit a **written Change Order request with a report to** the City that explains the request for Change Order within **5 Working Days**. The Change Order request must include supporting data, a general description of the discovery, the basis for extension, and the estimated length of extension. The City may grant an extension of time, in writing, for the Change Order request if you require more time to gather and analyze data.
- 3. The Engineer shall not grant an extension of Contract Time in accordance with 6-1.5, "Excusable Delays" unless you demonstrate, through an analysis of the critical path, the following:
  - a) The event causing the delay impacted the activities along the Project's critical path.
  - b) The increases in the time to perform all or part of the Project beyond the Contract Time arose from unforeseeable causes beyond your control and without your fault or negligence and that all project float has been used.
- 4. Any modifications to the Contract Time will be incorporated into the weekly document that the Engineer issues that stipulates the Contract Time. If you do not agree with this document, submit to the Engineer for review a written protest supporting your objections to the document within **30 Calendar Days** after receipt of the statement. Your failure to file a timely protest shall constitute your acceptance of the Engineer's weekly document.
  - a) Your protest will be considered a claim for time extension and shall be subject to 2-10.1, "Claims".

**ADD:**

**6-6.1.1 Environmental Document.**

1. The City of San Diego has prepared a **Notice of Exemption** for **Remaining Small Diameter Cast Iron Water Main Phase 2**, Project No. **B-16023**, as referenced in the Contract Appendix. You shall comply with all requirements of the **Notice of Exemption** as set forth in **Appendix A**.
2. Compliance with the City's environmental document shall be included in the Contract Price, unless separate bid items have been provided.

**6-6.4 Written Notice and Report.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Your failure to notify the Resident Engineer within **1 Working Day** OR provide a Change Order request within **5 Working Days** after the event, in accordance with 6-4.2, "Extensions of Time", will be considered grounds for refusal by the City to consider such request if your failure to notify prejudices the City in responding to the event.

**SECTION 7 – MEASUREMENT AND PAYMENT**

**7-3.1 General.** To the "WHITEBOOK" ADD the following:

1. The Linear Foot Bid item for "**Water Main by Jacking Operation with Steel Casing (12 Inch, 36 inch casing) (Interstate I-8)**" shall include the Installation and testing of the 12in carrier pipe and 36in casing, including casing spacers, end seals, contact grouting, excavating, shoring, maintaining, backfilling, resurfacing access pits, and performing all other appurtenant Work associated to the tunnel construction as specified in the Plans (see also Trenchless Installation Construction notes on G-1), Contract Documents, Caltrans requirements, and Technical specification section 02340 "Guided Boring and Jacking" and section 02320 "Contact Grouting".

**7-3.2 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.



**7-3.11 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 209 – PRESSURE PIPE**

**209-1.1.1 General.** 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.
3. Refer to AWWA C900-16 for all references to AWWA C905.

**209-2.1 General.** To the "GREENBOOK", ADD the following:

For 12-inch diameter pipe, the minimum steel thickness shall be ¼-inch and the minimum specials and fittings steel thickness shall be ¼-inch.

### **SECTION 212 – WATER AND SEWER SYSTEM VALVES AND APPURTENANCES**

**212-10.6.3 Polymer Concrete Water Meter Boxes.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Boxes and covers shall be in accordance with the Water Approved Materials List or approved equal.
2. Boxes and covers to be installed in all areas shall have a reinforced polymer concrete frame and cover designed for AASHTO H-20 traffic loading.
3. Covers shall have a logo reading "SD CITY WATER" as well as the manufacturer's name or logo cast in the polymer concrete surface. A cover selected at random shall be tested.
4. Covers shall be solid per SDW-136, sheet 1 only. Reader lids shall not be installed.

### **SECTION 306 – OPEN TRENCH CONDUIT CONSTRUCTION**

**ADD:**

**306-1.1 High-line Phasing.**

1. Build the Project in accordance with the water high-lining phasing shown on the Plans.

**306-7.8.2.1 General.** To the "WHITEBOOK", item 2, DELETE in its entirety and SUBSTITUTE with the following:

2. Pressure testing of pipe and fittings at the lowest elevation shall be performed at 150% of the specified test pressure and no less than 100% of the specified test pressure at the highest elevation.
  - a) Specified test pressure for Class 235 pipe shall be 150 psi and is tested at 225 psi.
  - b) Specified test pressure for Class 305 pipe shall be 200 psi and is tested at 300 psi.

#### **SECTION 400 – PROTECTION AND RE STORATION**

**402-2 PROTECTION.** To the "WHITEBOOK", item 2, ADD the following:

- g) Refer to **Appendix M - Advanced Metering Infrastructure (AMI) Device Protection** for more information on the protection of AMI devices.

**402-6 COOPERATION.** To the "GREENBOOK", ADD the following:

1. Notify SDG&E at least 14 Working Days prior to excavating within 10 feet of SDG&E Underground High Voltage Transmission Power Lines (69 KV and higher).

#### **SECTION 900 – MATERIALS**

**900-2.3 Payment.** To the "WHITEBOOK", item 3, DELETE in its entirety and SUBSTITUTE with the following:

3. The payment for furnishing materials for your connection, cut and plug, and cut-in Work shall cover all necessary materials (fittings and hardware, excluding valves), delivery, and unloading. The payment shall be included within the Bid item of the Work involved and no separate payment for furnishing those materials shall be made. The payment for furnishing valve materials for your connection, cut and plug, and cut-in Work shall be included in the separate Bid items for each valve.

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#### **END OF SUPPLEMENTARY SPECIAL PROVISIONS (SSP)**

**SUPPLEMENTARY SPECIAL PROVISIONS**  
**APPENDICES**

**APPENDIX A**  
**NOTICE OF EXEMPTION**

## NOTICE OF EXEMPTION

(Check one or both)

TO:  Recorder/County Clerk  
P.O. Box 1750, MS A-33  
1600 Pacific Hwy, Room 260  
San Diego, CA 92101-2400

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 Name:** Remaining Small Diameter Cast Iron Water Main Phase 2      **Project No. / SCH No.:** B-16023

**Project Location-Specific:** The project is located Citywide at the following locations: 1) Hotel Circle Place (near Sefton Field) crossing I-8 to Hotel Circle South; 2) Hotel Circle North (east of Crown Plaza Hotel) crossing I-8; 3) Hotel Circle North (west of Fashion Valley Road) crossing I-8; 4) Ash Street (between Kettner Boulevard and Pacific Highway); 5) 3<sup>rd</sup> Avenue (Date Street to Cedar Street) overcrossing I-5; 5<sup>th</sup> Avenue (Date Street to Cedar Street) overcrossing I-5; 6) Adams Avenue (West Mountain View Drive to Boundary Street) crossing I-805; 7) El Cajon Boulevard (33<sup>rd</sup> Street to Boundary Street) crossing I-805; Boundary Street (El Cajon Boulevard to Meade Avenue); 8) San Diego Mission Road (east of Qualcomm Stadium) crossing I-15; 9) Imperial Avenue at 69<sup>th</sup> Street; and 10) National Avenue (east of 41<sup>st</sup> Street) spanning Chollas Creek; South 38<sup>th</sup> Street (between Acacia Grove Way and Alpha Street) spanning Chollas Creek.

The project locations are within the Mission Valley, Downtown, Mid-City: Normal Heights, Greater North Park, City Heights, Encanto Neighborhoods: Southeastern, Skyline Paradise Hills, and Southeastern San Diego Community Planning Areas within Council Districts 3, 4, 7, and 9.

**Project Location-City/County:** San Diego/San Diego

**Description of nature and purpose of the Project:** This project proposes to replace approximately 5,354 linear feet (LF) (1.01 miles) of existing 4-, 6-, 8-, 10-, 12- and 16-inch cast iron (CI) and asbestos cement (AC) water mains at 10 locations throughout the City. Approximately 3,000 LF will utilize open-trench construction methods (replace-in-place). Approximately 2,354 LF of this replacement will be trenchless as the existing water mains are located within bridge cells or are attached to the bridge decks of Caltrans overcrossings. The mains spanning Chollas Creek (Location 10) are attached to roadway bridges. All construction work will be completed within the City's right-of-way and no impacts to the creek will occur. Approximately 477 LF of new water main will be installed via trenchless construction methods (e.g. tunneling) crossing Interstate 8 (Location 1) and MTS right-of-way (Location 9). A total of 1,033 LF of existing CI and AC water mains will be abandoned crossing I-8 (Locations 2 and 3). Because all work is either replace-in-place or trenchless, no impacts to native soils are anticipated.

Location 1 is located within 100 feet of the City's Multi-Habitat Planning Area (MHPA). Work at this location will remain within the developed right-of-way (separated from sensitive resources by sidewalk and fencing) and will be conducted during daytime hours outside the general avian breeding season (February 1 through September 15). As such, no impacts to environmentally sensitive lands (ESL) will occur.

**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: Jerry Jakubauskas; Phone: (619) 533-3755  
525 B Street, Suite 750 (MS 908A), 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 (Replacement or Reconstruction), 15303 (New Construction or Conversion of Small Structures), and 15304 (Minor Alterations to Land)

Reasons why project is exempt: The City of San Diego conducted an environmental review which determined that the project meets the categorical exemption criteria set forth in CEQA State Guidelines, Sections: 15302(c) [Replacement or Reconstruction] which allows for the replacement or reconstruction of existing structures and facilities where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced including replacement or reconstruction of existing utility systems and/or facilities involving negligible or no expansion of capacity; 15303(d) [New Construction or Conversion of Small Structures] which allows for the construction and location of limited numbers of new, small facilities or structures including water main, sewage, electrical, gas, and other utility extensions, including street improvements of reasonable length to serve such construction; 15304(f) [Minor Alterations to Land] which allows for minor public or private alterations in the condition of land including minor trenching and backfilling where the surface is restored; and where the exceptions listed in Section 15300.2 would not apply.

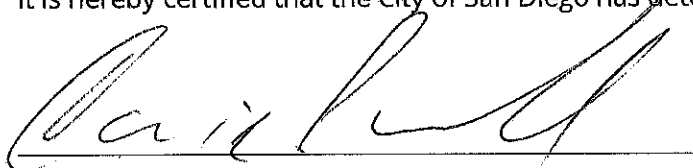
Lead Agency Contact Person: Jerry Jakubauskas

Telephone: (619) 533-3755

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

It is hereby certified that the City of San Diego has determined the above activity to be exempt from CEQA

  
 Carrie Purcell, Assistant Deputy Director

10/9/2017  
 Date

Check One:

- Signed By Lead Agency
- Signed by Applicant

Date Received for Filing with County Clerk or OPR:

**APPENDIX B**  
**FIRE HYDRANT METER PROGRAM**

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

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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- 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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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.

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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.



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- 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.) <u>Zip:</u>	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: <input type="text"/>	<input type="checkbox"/>	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:	
<small>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</small>			

<b>Fire Hydrant Meter Removal Request</b>	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: <b>\$ 936.00</b>	Fees Amount: <b>\$ 62.00</b>
Meter Serial #	Meter Size: <b>05</b>	Meter Make and Style: <b>6-7</b>
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 CASH FLOW FORECAST**





WBS #:	B18108
Date Submitted:	10/10/2018
NTP Date:	3/23/2018
Final Statement of WD Date:	5/23/2020
Contract #:	K-XX-XXXX-XXX-X
Contract Amount:	\$5,617,000

Construction Cash Flow Forecast  
 "Sewer and Water Group Job 965 (W)"

Year	January	February	March	April	May	June	July	August	September	October	November	December
2018				15,000	25,000	52,000	52,000	100,000	10,000	100,000	100,000	100,000
2019	10,000	10,000	85,000	58,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000	1,000,000
2020	100,000	100,000	100,000	1,000,000	1,000,000							
2021												
2022												
2023												
2024												
2025												

SAMPLE REFERENCE

**APPENDIX E**  
**LOCATION MAP**

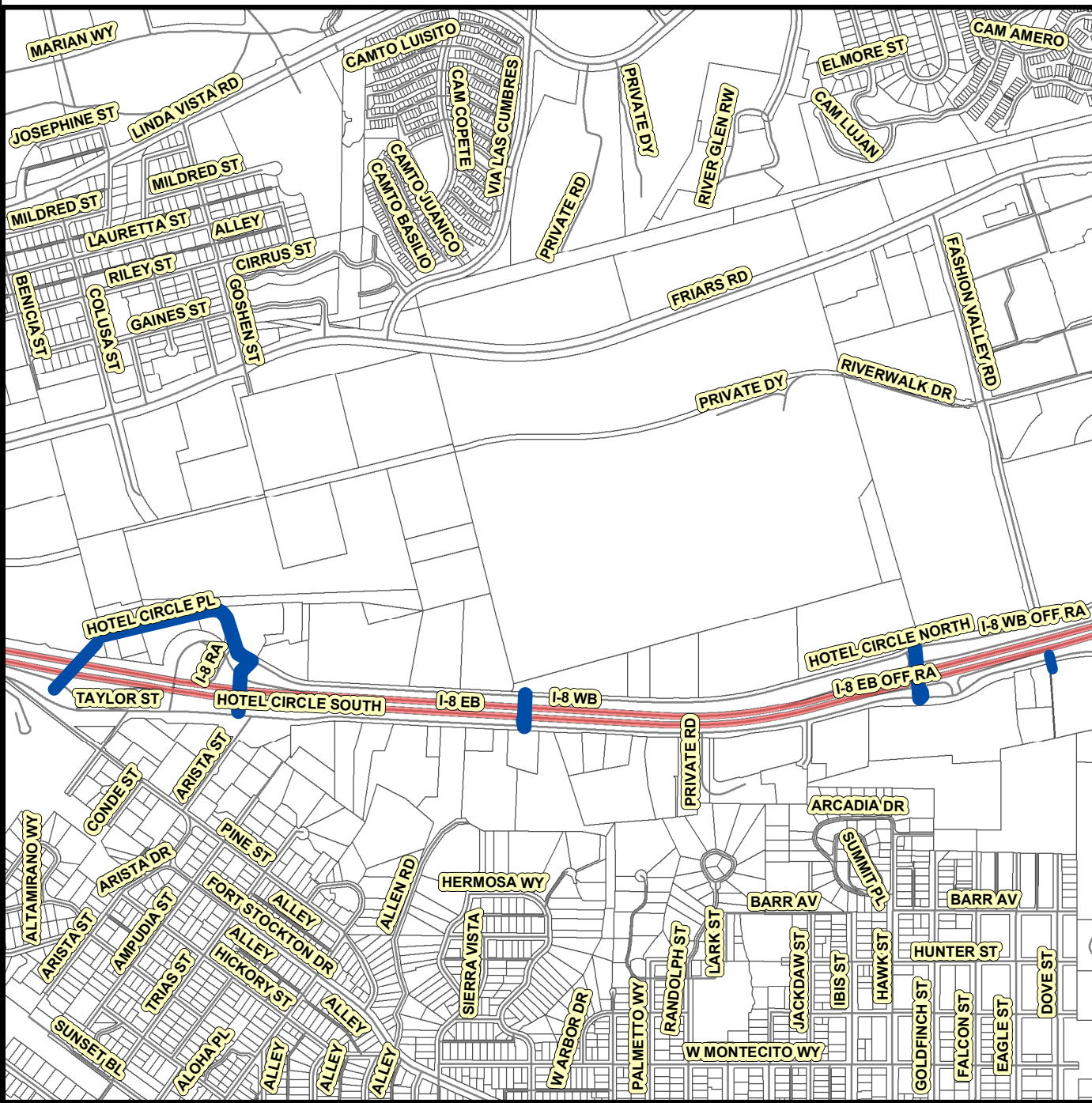
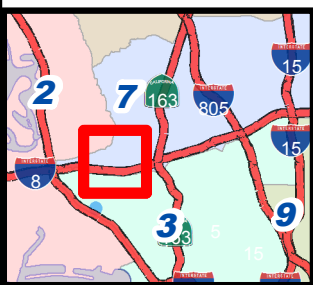
## HOTEL CIRCLE CI & AC ACCELERATED REPLACEMENT

SENIOR ENGINEER  
BRIAN VITELLE  
619-533-5105

PROJECT MANAGE  
GABRIEL TORRES  
619-533-4630

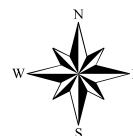
PROJECT ENGINEER  
ROY GANZON  
619-533-5247

FOR QUESTIONS ABOUT THIS PROJECT  
Call: 619-533-4207  
Email: [engineering@sandiego.gov](mailto:engineering@sandiego.gov)



### Legend

 B18235



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**APPENDIX F**

**CONTRACTOR’S DAILY QUALITY CONTROL INSPECTION REPORT**

**Appendix F**

City of San Diego  
Asphalt Concrete Overlay

**Contractor's Daily Quality Control Inspection Report**

Project Title: \_\_\_\_\_ Date: \_\_\_\_\_

Locations: 1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_

Asphalt Mix Specification: Attached Supplier: \_\_\_\_\_

Dig out Locations: 1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_

Tack Coat Application Rate @ Locations:  
1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_

Asphalt Temperature at Placement @ Locations:  
1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_

Asphalt Depth @Locations:  
1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_

Compaction Test Result @Locations:  
1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_

Location and nature of defects:

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_

Remedial and Corrective Actions taken or proposed for Engineer's approval:

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_

Date's City Laboratory representative was present:

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_

Verified the following:

- 1. Proper Storage of Materials & Equipment
- 2. Proper Operation of Equipment
- 3. Adherence to Plans and Specs
- 4. Review of QC Tests
- 5. Safety Inspection

Initials:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Deviations from QCP \_\_\_\_\_ (see attached)

Quality Control Plan Administrator's Signature:

Date Signed:

\_\_\_\_\_

\_\_\_\_\_

**APPENDIX G**  
**DRINKING WATER DISCHARGE MONITORING FORM**

# DRINKING WATER DISCHARGE MONITORING FORM

(Use for All Discharges to the Storm Drain)

All discharge activities related to this project 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](http://www.waterboards.ca.gov/water_issues/programs/npdes/docs/drinkingwater/final_statewide_wqo2014_0194_dwq.pdf)), and as follows:

<b>Project Name:</b>				<b>WBS No.:</b>				<b>Watershed No.</b>				
<b>Qualified Person Conducting Tests:</b>								<b>signature</b>				
<b>BMPs MUST BE IN PLACE PRIOR TO ANY SCHEDULED DISCHARGE</b>								By signing, I certify that all of the statements and conditions for drinking water discharge events are correct.				
Event #1												
Discharge Location <sup>1</sup>	Category <sup>2</sup> (Select one)	Notification <sup>3</sup> (Select all that apply)	BMPs in Place <sup>4</sup> (Select all that apply)	Volume <sup>5</sup> (gal)	Sampling <sup>6</sup> (take samples at 10 mins, 50-60 mins & last 10 mins)				Exceedence <sup>7</sup>			Notes Report exceedence to RE & complete page 2 of 2
					Measure	Unit	Time	Result	Limit	No	Yes	
<u>Inlet Location</u>  <b>Date:</b> <b>Time:</b>  <b>Date:</b> <b>Time:</b>	<input type="checkbox"/> <b>Superchlorinated</b> <small>(Chlorine added for disinfection)</small>	<input type="checkbox"/> <b>TSW</b> <small>(All Categories)</small>	<input type="checkbox"/> <b>Sweep flow path</b> <small>(gutter, street, etc.)</small>	<b>Total</b>	<b>Chlorine</b>	mg/L			0.1 mg/L= Exceedence			
	<input type="checkbox"/> <b>Large Volume</b> <small>(≥ 325,850 gal)</small>	<input type="checkbox"/> <b>PUD</b> <small>(All Categories)</small>	<input type="checkbox"/> <b>Dechlorination</b> <small>(diffusers, chemicals, etc.)</small>				<b>Reused</b> <small>(if any)</small>					
	<input type="checkbox"/> <b>Well Dev/Rehab</b> <small>(Not Typical)</small>	<input type="checkbox"/> <b>Water Board</b> <small>(Large Volume Only)</small>	<input type="checkbox"/> <b>Inlet Protection</b>		<b>Turbidity</b>	NTU						
	<input type="checkbox"/> <b>Small Volume/Other</b> <small>(No Sampling Required)</small>	<input type="checkbox"/> <b>County</b> <small>(≥100,000 gal &amp; within ¼ mile of ocean/bay; or if enters the County's MS4)</small>	<input type="checkbox"/> <b>Sediment Controls</b>				<b>pH</b>	Unit			Range 6.5 to 8.5	
Event #2												
Discharge Location <sup>1</sup>	Category <sup>2</sup> (Select one)	Notification <sup>3</sup> (Select all that apply)	BMPs in Place <sup>4</sup> (Select all that apply)	Volume <sup>5</sup> (gal)	Sampling <sup>6</sup> (take samples at 10 mins, 50-60 mins & last 10 mins)				Exceedence <sup>7</sup>			Notes Report exceedence to RE & complete page 2 of 2
					Measure	Unit	Time	Result	Limit	No	Yes	
<u>Inlet Location</u>  <b>Date:</b> <b>Time:</b>  <b>Date:</b> <b>Time:</b>	<input type="checkbox"/> <b>Superchlorinated</b> <small>(Chlorine added for disinfection)</small>	<input type="checkbox"/> <b>TSW</b> <small>(All Categories)</small>	<input type="checkbox"/> <b>Sweep flow path</b> <small>(gutter, street, etc.)</small>	<b>Total</b>	<b>Chlorine</b>	mg/L			0.1 mg/L= Exceedence			
	<input type="checkbox"/> <b>Large Volume</b> <small>(≥ 325,850 gal)</small>	<input type="checkbox"/> <b>PUD</b> <small>(All Categories)</small>	<input type="checkbox"/> <b>Dechlorination</b> <small>(diffusers, chemicals, etc.)</small>				<b>Reused</b> <small>(if any)</small>					
	<input type="checkbox"/> <b>Well Dev/Rehab</b> <small>(Not Typical)</small>	<input type="checkbox"/> <b>Water Board</b> <small>(Large Volume Only)</small>	<input type="checkbox"/> <b>Inlet Protection</b>		<b>Turbidity</b>	NTU						
	<input type="checkbox"/> <b>Small Volume/Other</b> <small>(No Sampling Required)</small>	<input type="checkbox"/> <b>County</b> <small>(≥100,000 gal &amp; within ¼ mile of ocean/bay; or if enters the County's MS4)</small>	<input type="checkbox"/> <b>Sediment Controls</b>				<b>pH</b>	Unit			Range 6.5 to 8.5	

**Submit completed Form to RE**

**Instructional Notes found on the Page 2 of 2**



## Receiving Water Monitoring

(Complete only if limits exceed on Page 1 of 2)

<b>Event #1</b>	
1) Go to the location where the discharge enters the receiving water.	
<input type="checkbox"/> Accessible <input type="checkbox"/> Unable to Determine <input type="checkbox"/> No Safe Access	
2) If accessible, take photos and complete the visual monitoring below. If unable to determine, stop here. If no safe access, stop here.	
3) Visual Monitoring: Is the discharge into the receiving water...	
...causing erosion	<input type="checkbox"/> Yes <input type="checkbox"/> No
...carrying floating or suspended matter	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing discoloration	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing and impact to the aquatic life present	<input type="checkbox"/> Yes <input type="checkbox"/> No
...observed with visible film	<input type="checkbox"/> Yes <input type="checkbox"/> No
...observed with an sheen or coating	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing potential nuisance conditions	<input type="checkbox"/> Yes <input type="checkbox"/> No
3) If all answers are NO, stop here.	
<b>4) If any answers are YES, Notify the RE immediately for further action</b>	

<b>Event #2</b>	
1) Go to the location where the discharge enters the receiving water.	
<input type="checkbox"/> Accessible <input type="checkbox"/> Unable to Determine <input type="checkbox"/> No Safe Access	
2) If accessible, take photos and complete the visual monitoring below. If unable to determine, stop here. If no safe access, stop here.	
3) Visual Monitoring: Is the discharge into the receiving water...	
...causing erosion	<input type="checkbox"/> Yes <input type="checkbox"/> No
...carrying floating or suspended matter	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing discoloration	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing and impact to the aquatic life present	<input type="checkbox"/> Yes <input type="checkbox"/> No
...observed with visible film	<input type="checkbox"/> Yes <input type="checkbox"/> No
...observed with an sheen or coating	<input type="checkbox"/> Yes <input type="checkbox"/> No
...causing potential nuisance conditions	<input type="checkbox"/> Yes <input type="checkbox"/> No
3) If all answers are NO, stop here.	
<b>4) If any answers are YES, Notify the RE immediately for further action</b>	

## Instructional Notes to Contractor

- 1) Log the location of the inlet or discharge point. For example: Albatross St & 5th Av. Log the start date and time and the end date and time of the discharge.
- 2) Log the discharge category. "Superchlorinated" are discharges where additional chlorine is added in order to adequately disinfect and sanitize drinking water system facilities. This does NOT include potable water containing residual chlorine from the water treatment process. "Large Volume" discharges are greater than 325,850 gallons of total volume for one event. "Well Dev/Rehab" are discharges of potable ground water from a well. This is not typical. If none of these categories apply, then select "Small Volume/Other."
- 3) Notifications of the location, date, time, category, and estimated volume of discharge must be made to the contacts and per the requirements below:

Contact	Email	When to Notify
TSW	SWPPP@SanDiego.gov	3 days prior to all discharges
PUD	CompReports@SanDiego.gov RDavenport@sandiego.gov	3 days prior to all discharges
San Diego Water Board	SanDiego@WaterBoards.ca.gov cc:Ben.Neill@WaterBoards.ca.gov	3 days prior to a Large Volume discharge
County of San Diego	DEH: joseph.palmer@sdcounty.ca.gov dominique.edwards@sdcounty.ca.gov	3 days prior if ≥100,000 gal within ¼ mile of the ocean/bay
	WPP: Nicholas.DelValle@sdcounty.ca.gov	3 days prior if enters County's MS4 or unincorporated County

- 4) At a minimum, sweep gutters prior to starting discharge and use dechlorination BMPs. The contractor and RE must monitor and determine if BMPs need to be removed/modified. For example if inlet protection is causing flooding at a storm drain inlet, contractor may elect to remove BMPs. Document any modification to BMPs in notes section.
- 5) Total volume must be logged for all discharges. If discharge water is reused for other purposes such as watering a golf course, log that volume under "Reused"
- 6) Sampling is required for categories per the following table:

Category	Measure	Sample Frequency
Superchlorinated	Chlorine, Turbidity, pH	first 10 mins, 50-60 mins, last 10 mins
Large Volume	Chlorine, Turbidity	first 10 mins, 50-60 mins, last 10 mins
Well Dev/Rehab	Chlorine, Turbidity	first 10 mins, 50-60 mins, last 10 mins
Small Volume/Other	None	None

- 7) Effluent limitations must be monitored not to exceed per the following table:

Measure	Method	Limit
Volume	Estimate None	
Chlorine	Field Measurement	0.10 mg/L-Cl
Turbidity	Visual Estimate	20 NTU for inland water 225 NTU for ocean 100 NTU for well water
pH	Field Measurement	6.5 to 8.5

**APPENDIX H**  
**CALTRANS PERMITS**

**ENCROACHMENT PERMIT**

TR-0120 (REV. 6/2012)

In compliance with (Check one):

- Your application of NOVEMBER 20, 2018
- Utility Notice No. \_\_\_\_\_ of \_\_\_\_\_
- Agreement No. \_\_\_\_\_ of \_\_\_\_\_
- R/W Contract No. \_\_\_\_\_ of \_\_\_\_\_

Permit No. <b>11-18-NUJ-0953</b>	
Dist/Co/Rte/PM <b>11-SD-8/R0.81-1.93</b>	
Date <b>APRIL 5, 2019</b>	
Fee Paid <b>\$ EXEMPT</b>	Deposit <b>\$ EXEMPT</b>
Performance Bond Amount (1) <b>\$ 0.00</b>	Payment Bond Amount (2) <b>\$ 0.00</b>
Bond Company <b>N/A</b>	
Bond Number (1) <b>N/A</b>	Bond Number (2) <b>N/A</b>

CITY OF SAN DIEGO  
525 B STREET, SUITE 750  
TO: SAN DIEGO, CA 92101

ATTN: GABRIEL TORRES  
PHONE: (619) 533-4630

, PERMITTEE

And subject to the following, PERMISSION IS HEREBY GRANTED to:

enter upon State Highway right of way in San Diego County, City of San Diego, on Route 8, post mile R0.81 to 1.93, to install 270 feet of a 12-inch water line inside a 36-inch steel casing by jack and bore method, abandon three existing 8-inch potable water pipes and fill with slurry, construct one curb ramp, install two pedestrian barricades and a pole sign in accordance with the requirements and conditions contained herein and as further directed or approved by the State's Inspector, Pedro Aguilar, telephone number (619) 220-5484 or by e-mail at pedro.aguilar@dot.ca.gov.

The State's Inspector shall be notified seven working days prior to starting work. Permittee shall also call Brian Hinman, telephone number (858) 467-4051 or by e-mail at brian.hinman@dot.ca.gov at least ten working days prior to starting work to arrange for a Caltrans Geotechnical representative to be present during the jack and bore operation. Working hours shall be as directed or approved by the State's Inspector.

Working hours shall be as directed or approved by the State's Inspector and in accordance with the attached lane closure requirement charts nos. 1, 2, 3 & 4.

No vehicles or equipment shall be parked within the highway right of way at any time, except for those vehicles or that equipment actually engaged in the work, during the working hours specified herein. (CONTINUED)

**THIS PERMIT IS NOT A PROPERTY RIGHT AND DOES NOT TRANSFER WITH THE PROPERTY TO A NEW OWNER**

The following attachments are also included as part of this permit (Check applicable):

- Yes  No General Provisions
- Yes  No Utility Maintenance Provisions
- Yes  No Special Provisions
- Yes  No A Cal-OSHA permit, if required: Permit No. \_\_\_\_\_
- Yes  No As-Built Plans Submittal Route Slip for Locally Advertised Projects
- Yes  No Water Pollution Control Plan

In addition to fee, the permittee will be billed actual costs for:

- Yes  No Review
- Yes  No Inspection
- Yes  No Field Work

(If any Caltrans effort expended)

Yes  No The information in the environmental documentation has been reviewed and considered prior to approval of this permit.

This permit is void unless the work is complete before **DECEMBER 31, 2019.**

This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized.

No project work shall be commenced until all other necessary permits and environmental clearances have been obtained.

WOV:wov  
cc: Permits  
Operryman, Reg. Mgr.  
PAguilar: Inspector  
CDodge, METS  
BHinman, Geotech Rep.  
NSalman, Surveys

APPROVED:  
  
Cory Binns, District Director  
  
Joy J. Lee, District Permit Engineer

ADA NOTICE: For individuals with sensory disabilities, this document is available in alternate formats. For information, call (916) 654-6410, or TDD (916) 654-3880 or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

**CITY OF SAN DIEGO  
11-18-NUJ-0953  
APRIL 5, 2019  
PAGE TWO**

**Permittee must call Caltrans' District 11 Field Survey Supervisor, Ned Salman, phone number (858) 467-4305 or by e-mail at [ned.salman@dot.ca.gov](mailto:ned.salman@dot.ca.gov), AT LEAST A MONTH IN ADVANCE OF BEGINNING THE OPERATION, to arrange for Caltrans to conduct an initial survey scan of the pavement surface.**

The following District Standard Special Provisions are generalizations of the Department Standard Specifications and are included only as a Permittee convenience. Permittee's attention is directed to the current Department Standard Specifications and Encroachment Permit General Provisions (TR-0045) for complete, unabridged, specification requirements.

Once begun, that portion of the work within the State Highway right of way shall be prosecuted to completion as rapidly as possible.

All personnel on foot within the State Highway right of way shall wear personal protective equipment, including safety glasses, hard hats and American National Standards Institute (ANSI) compliant Class II vests. In addition, all personnel working at night, on foot within the State Highway right of way shall wear ANSI Class III warning garments.

The Permittee is responsible for locating and protecting all utilities both underground and aerial. Any costs incurred for locating and protecting and/or relocating any utilities shall be borne by the Permittee.

Permittee's Contractor is responsible for the actual cost of inspection, which may be more or less than the deposit. A bill or refund shall be sent upon satisfactory completion of the work. Payment of any bill is a condition of the permit.

Notwithstanding General Provision No. 4, your Contractor is required to apply for and obtain an encroachment permit prior to starting work. A fee/deposit fee of \$16,236 will be required upon submittal of the application to perform the work. Your Contractor will also be responsible for any review fees of required submittals. Also, your contractor must submit proof that they have obtained executed bonds in accordance with General Provision No. 24 and your contractor shall provide proof that they have the proper Cal-OSHA permit and classification documents.

Notwithstanding General Provision 24, the Permittee's Contractor's bonds shall remain in full force through completion of the work and acceptance by the Department. Upon fulfillment of all obligations under this permit, the Department will inform the Permittee when the Permittee's Contractor's bonds may be released.

The State of California, Department of Transportation, makes no assurance or expressed warranty that the plans are complete or that the planned construction fits field conditions. Should additional work or modifications of the work be required in order to meet established Department Standards or in order to fit field conditions, the work shall be performed by Permittee as directed by the State's Inspector at no cost to the State.

All work shall be coordinated with the State highway contractor's operations and under no circumstances shall the work granted herein interfere. All standards of construction shall be identical to similar work performed under adjacent highway contract.

All work shall be performed in accordance with the current Department of Transportation Standard Specifications and the Department of Transportation Encroachment Permit Underground Utility Provisions dated April 2018.

Traffic control when permitted or directed by the State's Inspector, shall consist of closing traffic lanes and shoulders in accordance with attached Caltrans 2018 Standard Plan T9, T10 (Shoulder Closure), T10A, T11, and the attached TRAFFIC CONTROL PLANS, Part 6 "Temporary Traffic Control" of the California Manual on Uniform Traffic Control Devices (California MUTCD) 2014 Revision 4 edition, Section 12 "Temporary Traffic Control" of Caltrans 2018 Standard Specifications, and these Special Provisions.

If any component in the traffic control system is displaced, or ceases to operate or function as specified, from any cause, during the progress of the work, the Permittee shall immediately repair said component to its original condition or replace said component and shall restore the component to its original location.

The Permittee must provide a minimum of one (1) Portable Changeable Message Sign (PCMS) for each direction of traffic. Additional PCMS(s) must be provided if required by the State's Inspector. PCMS(s) must be placed at the locations directed by the State's Inspector and be moved or relocated as needed. Each PCMS must comply with the provisions in Section 12-3.32 of the Standard Specifications.

Message to be displayed on the PCMS(s) must be coordinated with the State's Inspector.

Permittee must call Caltrans' District 11 Construction Source Inspection, Claire Dodge, phone number (858) 467-4052 or by e-mail at [d11sourceinspection@dot.ca.gov](mailto:d11sourceinspection@dot.ca.gov) at least 7 days prior to procuring casing material and welding plan submittal.

Permittee shall furnish to the State Representative and the Materials Engineering and Testing Services (METS) Materials Administrator a completed form DC-CEM-3101 "Notice of Materials to be Used" for all signal poles, sign poles, light poles, mast arms, signal panels, guard rail components, and other items as specified by the State Representative. Please note that these materials may require source inspection and approval at the manufacturer's plant. Materials identified on form TL-608 which are not inspected and approved by the State at the manufacturer's plant will be rejected from use on the State highway.

A minimum of six weeks for source inspection, testing, and approval of materials is to be used.

Form DC-CEM-3101 shall be furnished to the State's Inspector or Representative at the Pre-construction meeting.

Casing pipe shall be welded Steel Pipe conforming to Caltrans Standard Specification 70-3.02A.

All field welds must be Complete Joint Penetration (CJP) Welds per AWS D1.1.

Caltrans shall conduct an initial survey scan of the pavement surface prior to jack and bore and subsequent scans during and after the jack and bore operations. Copies of the pavement survey notes shall be provided to the Permittee's Contractor upon request.

Settlement shall not exceed half an inch in 20 feet. Settlement shall be monitored. If it appears during settlement monitoring that this threshold might be exceeded, then all jack and bore operations shall cease immediately. The Permittee shall then submit a plan to stabilize the excavation for Caltrans review and approval. If deemed necessary by Caltrans, the Permittee shall restore the pavement areas to their original condition.

Caltrans' Representative may require the Permittee's Contractor to pressure grout the area between the pavement and the casing from within the casing or from the top of pavement to fill any voids caused by the permitted work. Grouting shall be at the expense of the Permittee. The grout holes inside the pipe shall be 8' apart longitudinally and offset 22 degrees from vertical, and staggered to left and right of the top longitudinal axis of the casing. Grout pressure shall not exceed five (5) psig for a duration sufficient to fill all voids.

All pits shall have crushed-rock and sump areas to clear groundwater and water used to clean the casing. Pits shall be lined with filter fabric when groundwater is found and pumping is required.

The Permittee shall provide full-time jack and bore inspection that will be monitored by the State's Geotechnical Representative or the State's Inspector.

Restoration of damage to any highway or non-highway facility caused by escaping drilling fluid, or the jack and bore operation, shall be the responsibility of the Permittee.

At least fourteen days prior to the start of work, Permittee's Contractor shall prepare and submit to the Permit Inspector for review and approval by the District 11 Bridge Engineer, a project specific shoring plan, calculations for any trench 5 feet deep or greater, and design plan of temporary concrete pad. The shoring plan and concrete pad design plan must be designed, stamped, and signed by a California Registered Civil or Structural Engineer unless the contractor elects to use the Construction Safety Order Details from the California Department of Safety and Health, Title 8 of the California Administration Code. No work shall begin until the shoring plans and the concrete pad design plan are approved by the Engineer.

Permittee's Contractor shall prepare and submit for review and approval four (4) sets of the Water Pollution Control Program (WPCP) as part of their encroachment permit application. No work shall begin until the WPCP is approved by the Department.

This project is anticipated to result in excess soil which needs to be transported off the project site. Permittee must follow the attached "Hazardous Materials & Hazardous Waste Management" special Provisions – Appendix K (TR-0408). Reuse of soils containing greater than 80 mg/kg total lead is not allowed without prior written approval of Department of Toxic Substances Control (DTSC) and Caltrans. A Lead Compliance Plan (LCP) is required.

The Permittee shall retain a Civil Engineer, licensed to practice in California, who shall upon completion of the placement or regrading of materials requiring compaction, furnish to the State's Inspector, a report certifying that the compaction work has been accomplished in accordance with Caltrans Standard Specifications and Standard Plans. Compaction testing, in accordance with Caltrans testing procedures and policies, shall be performed by a certified testing laboratory. Copies of the test shall accompany the engineer's report.

Upon completion of the work provided herein, the Permittee shall complete the "Post Construction Certification" section of the attached Certification of Compliance with Americans with Disabilities Act (ADA) [TR-0405] and submit it to the District 11 Caltrans Permit Office. Encroachment Permit projects that create, alter, or affect pedestrian facilities are required to be designed and constructed in accordance with the policies and standards in Design Information Bulletin 82-06 (DIB 82-06).

Upon completion of the work provided herein, the Permittee shall submit two vellum or paper sets of As-Built plans and one electronic thumb drive to the District 11 Caltrans Permit Office showing the actual location of the facility to the nearest 0.1 foot horizontally and vertically. Mylar or paper sepiia plans are not acceptable.

As-Built plans shall be signed by a Land Surveyor or Civil Engineer licensed to practice in the State of California.

Any impacted landscaping shall be replaced in-kind with a plant establishment period to be determine by Landscape inspector.

No trees are to be removed as part of this permit.

The provisions in this section will not relieve the Permittee from his responsibility to provide additional devices or take such measures as may be necessary for the safety of traffic and the public to comply with the provisions in Section 7-1.04, "Public Safety" of the Standard Specifications.

Upon completion of the work, the attached card shall be completed and returned.

STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION  
ENCROACHMENT PERMIT GENERAL PROVISIONS  
TR-0045 (REV. 11/2018)

1. **AUTHORITY:** The California Department of Transportation ("Department") has authority to issue encroachment permits under Division 1, Chapter 3, Article 1, Sections 660 through 734 of the Streets and Highways Code.
2. **REVOCATION:** Encroachment permits are revocable on five (5) business days' notice unless otherwise stated on the permit and except as provided by law for public corporations, franchise holders, and utilities. Notwithstanding the foregoing, in an emergency situation as determined by the Department, an encroachment permit may be revoked immediately. These General Provisions and any applicable Special Provisions are subject to modification or abrogation by the Department at any time. Permittees' joint use agreements, franchise rights, reserved rights or any other agreements for operating purposes in State of California ("State") highway right-of-way may be exceptions to this revocation.
3. **DENIAL FOR NONPAYMENT OF FEES:** Failure to pay encroachment permit fees when due may result in rejection of future applications and denial of encroachment permits.
4. **ASSIGNMENT:** This encroachment permit allows only the Permittee or Permittee's authorized agent to work within or encroach upon the State Highway right-of-way, and the Permittee may not assign this permit.
5. **ACCEPTANCE OF PROVISIONS:** Permittee understands and agrees to accept and comply with these General Provisions, the Special Provisions, any and all terms and/or conditions contained in or incorporated into the encroachment permit, and all attachments to the encroachment permit (collectively "the Permit Conditions"), for any encroachment, work, and/or activity to be performed under this encroachment permit and/or under color of authority of this encroachment permit. Permittee understands and agrees the Permit Conditions are applicable to and enforceable against Permittee as long as the encroachment remains in, under, or over any part of the State Highway right-of-way.
6. **BEGINNING OF WORK:** When traffic is not impacted (see General Provision Number 35), the Permittee must notify the Department's representative two (2) business days before starting permitted work. Permittee must notify the Department's representative if the work is to be interrupted for a period of five (5) business days or more, unless otherwise agreed upon. All work must be performed on weekdays during regular work hours, excluding holidays, unless otherwise specified in this encroachment permit.
7. **STANDARDS OF CONSTRUCTION:** All work performed within State Highway right-of-way must conform to all applicable Departmental construction standards including but not limited to: Standard Specifications, Standard Plans, Project Development Procedures Manual, Highway Design Manual and Special Provisions.
8. **PLAN CHANGES:** Deviations from plans, specifications, and/or the Permit Conditions as defined in General Provision Number 5 are not allowed without prior approval from the Department's representative.
9. **INSPECTION AND APPROVAL:** All work is subject to monitoring and inspection. Upon completion of work, Permittee must request a final inspection for acceptance and approval by the Department. Permittee must not give final construction completion approval to its contractor, until final acceptance and approval is obtained from the Department.
10. **PERMIT AT WORKSITE:** Permittee must keep the permit package or a copy thereof at the work site at all times, and must show it upon request to any Department representative or law enforcement officer. If the permit package, or a copy thereof, is not kept and made available at the work site at all times, the work must be suspended.
11. **CONFLICTING ENCROACHMENTS:** Permittee must yield start of work to ongoing, prior authorized work adjacent to or within the limits of the Permittee's project site. When existing encroachments conflict with Permittee's work, the Permittee must bear all cost for rearrangements (e.g., relocation, alteration, removal, etc.).
12. **PERMITS FROM OTHER AGENCIES:** This encroachment permit is invalidated if the Permittee has not obtained all permits necessary and required by law, including but not limited to permits from the California Public Utilities Commission (CPUC), California Occupational Safety and Health Administration (Cal-OSHA), or any other public agency having jurisdiction. Permittee warrants all such permits have been obtained before beginning work under this encroachment permit.
13. **PEDESTRIAN AND BICYCLIST SAFETY:** A safe minimum continuous passageway of four (4) feet must be maintained through the work area at existing pedestrian or bicycle facilities. At no time must pedestrians be diverted onto a portion of the street used for vehicular traffic. At locations where safe alternate passageways cannot be provided, appropriate signs and barricades must be installed at the limits Other than as expressly provided by these General Provisions, the Special Provisions, the Standard Specifications, Standard Plans, and other applicable Departmental standards, nothing in these General Provisions is intended to give any third party any legal or equitable right, remedy, or claim with respect to these General Provisions or any provision herein. These General Provisions are for the sole and exclusive benefit of the Permittee and the Department.  
  
Where reference is made in such standards to "Contractor" and "Engineer," these are amended to be read as "Permittee" and "Department's representative," respectively, for purposes of this encroachment permit.



of construction and in advance of the limits of construction at the nearest crosswalk or intersection to detour pedestrians to facilities across the street. Attention is directed to Section 7-1.04, *Public Safety*, of the Department's Standard Specifications.

14. **PUBLIC TRAFFIC CONTROL:** As required by law, the Permittee must provide traffic control protection, warning signs, lights, safety devices, etc., and take all other measures necessary for the traveling public's safety. While providing traffic control, the needs of all road users, including but not limited to motorists, bicyclists and pedestrians, including persons with disabilities in accordance with the Americans with Disabilities Act, must be an essential part of the work activity.

Lane and/or shoulder closures must comply with the Department's Standard Specifications and Standard Plans for traffic control systems, and with the applicable Special Provisions. Where issues are not addressed in the Standard Specifications, Standard Plans, and/or Special Provisions, the California Manual on Uniform Traffic Control Devices (Part 6, *Temporary Traffic Control*) must be followed.

15. **MINIMUM INTERFERENCE WITH TRAFFIC:** Permittee must plan and conduct work so as to create the least possible inconvenience to the traveling public, such that traffic is not unreasonably delayed.
16. **STORAGE OF EQUIPMENT AND MATERIALS:** The storage of equipment or materials is not allowed within State highway right-of-way, unless specified within the Special Provisions of this encroachment permit. If encroachment permit Special Provisions allow for the storage of equipment or materials within the State highway right-of-way, the equipment and material storage must also comply with Section 7-1.04, *Public Safety*, of the Department's Standard Specifications.
17. **CARE OF DRAINAGE:** Permittee must provide alternate drainage for any work interfering with an existing drainage facility in compliance with the Department's Standard Specifications, Standard Plans, and/or as directed by the Department's representative.
18. **RESTORATION AND REPAIRS IN STATE HIGHWAY RIGHT-OF-WAY:** Permittee is responsible for restoration and repair of State highway right-of-way resulting from permitted work (Streets and Highways Code, section 670 et seq.).
19. **STATE HIGHWAY RIGHT-OF-WAY CLEAN UP:** Upon completion of work, Permittee must remove and dispose of all scraps, refuse, brush, timber, materials, etc. off the State highway right-of-way. The aesthetics of the highway must be as it was before work started or better.
20. **COST OF WORK:** Unless stated otherwise in the encroachment permit or a separate written agreement with the Department, the Permittee must bear all costs incurred for work within the State highway right-of-way and waives all claims for indemnification or contribution from the State, the

Department, and from the Directors, officers, and employees of the State and/or the Department.

21. **ACTUAL COST BILLING:** When specified in the permit, the Department will bill the Permittee actual costs at the currently set Standard Hourly Rate for encroachment permits.
22. **AS-BUILT PLANS:** When required, Permittee must submit one (1) set of folded as-built plans within thirty (30) calendar days after completion and acceptance of work in compliance with requirements listed as follows:
- a) Upon completion of the work provided herein, the Permittee must submit a paper set of As-Built plans to the Department's representative.
  - b) All changes in the work will be shown on the plans, as issued with the permit, including changes approved by Encroachment Permit Rider.
  - c) The plans are to be prominently stamped or otherwise noted "AS-BUILT" by the Permittee's representative who was responsible for overseeing the work. Any original plan that was approved with a Department stamp, or by signature of the Department's representative, must be used for producing the As-Built plans.
  - d) If construction plans include signing or striping, the dates of signing or striping removal, relocation, or installation must be shown on the As-Built plans when required as a condition of the encroachment permit. When the construction plans show signing and striping for staged construction on separate sheets, the sheet for each stage must show the removal, relocation, and installation dates of the appropriate staged striping and signing.
  - e) As-Built plans must contain the Encroachment Permit Number, County, Route, and Post Mile on each sheet.
  - f) The As-Built plans must not include a disclaimer statement of any kind that differs from the obligations and protections provided by sections 6735 through 6735.6 of the California Business and Professions Code. Such statements constitute non-compliance with Encroachment Permit requirements, and may result in the Department retaining Performance Bonds or deposits until proper plans are submitted. Failure to comply may also result in denial of future encroachment permits or a provision requiring a public agency to supply additional bonding.
23. **PERMITS FOR RECORD PURPOSES ONLY:** When work in the State highway right-of-way is within an area under a Joint Use Agreement (JUA) or a Consent to Common Use Agreement (CCUA), a fee exempt encroachment permit is issued to the Permittee for the purpose of providing a notice and record of work. The Permittee's prior rights must be preserved without the intention of creating new or different rights or obligations. "Notice and Record Purposes Only" must be stamped across the face of the encroachment permit.
24. **BONDING:** The Permittee must file bond(s), in advance, in the amount(s) set by the Department and using forms acceptable to the Department. The bonds must name the Department as obligee. Failure to maintain bond(s) in full force and effect will result in the Department stopping all work under this encroachment permit and possibly revoking other encroachment permit(s). Bonds are not required of public

corporations or privately owned utilities unless Permittee failed to comply with the provisions and/or conditions of a prior encroachment permit. The surety company is responsible for any latent defects as provided in California Code of Civil Procedure section 337.15. A local public agency Permittee also must comply with the following requirements:

- a) In recognition that project construction work done on State property will not be directly funded and paid by State, for the purpose of protecting stop notice claimants and the interests of State relative to successful project completion, the local public agency Permittee agrees to require the construction contractor to furnish both a payment and performance bond in the local public agency's name with both bonds complying with the requirements set forth in Section 3-1.05 *Contract Bonds* of the Department's Standard Specifications before performing any project construction work.
- b) The local public agency Permittee must defend, indemnify, and hold harmless the State and the Department, and the Directors, officers, and employees of the State and/or Department, from all project construction related claims by contractors, subcontractors, and suppliers, and from all stop notice and/or mechanic's lien claimants. The local public agency also agrees to remedy, in a timely manner and to the Department's satisfaction, any latent defects occurring as a result of the project construction work.

**25. FUTURE MOVING OF INSTALLATIONS:** Permittee understands and agrees to relocate a permitted installation upon notice by the Department. Unless under prior property right or agreement, the Permittee must comply with said notice at the Permittee's sole expense.

**26. ENVIRONMENTAL:**

- a) **ARCHAEOLOGICAL/HISTORICAL:** If any archaeological or historical resources are identified or encountered in the work vicinity, the Permittee must immediately stop work, notify the Department's representative, retain a qualified archaeologist who must evaluate the site at Permittee's expense, and make recommendations to the Department's representative regarding the continuance of work.
- b) **HAZARDOUS MATERIALS:** If any hazardous waste or materials (such as underground storage tanks, asbestos pipes, contaminated soil, etc.) are identified or encountered in the work vicinity, the Permittee must immediately stop work, notify the Department's representative, retain a qualified hazardous waste/material specialist who must evaluate the site at Permittee's expense, and make recommendations to the Department's representative regarding the continuance of work.

Attention is directed to potential aerially deposited lead (ADL) presence in unpaved areas along highways. It is the Permittee's responsibility to take all appropriate measures to protect workers in conformance with California Code of Regulations Title 8, Section 1532.1, "Lead," and with Cal-OSHA Construction Safety Orders, and to ensure roadway

soil management is in compliance with Department of Toxic Substances Control (DTSC) requirements.

**27. PREVAILING WAGES:** Work performed by or under an encroachment permit may require Permittee's contractors and subcontractors to pay appropriate prevailing wages as set by the California Department of Industrial Relations. Inquiries or requests for interpretations relative to enforcement of prevailing wage requirements must be directed to the California Department of Industrial Relations.

**28. LIABILITY, DEFENSE, AND INDEMNITY:** The Permittee agrees to indemnify and save harmless the State, the Department, and the Directors, officers, employees, agents and/or contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors, from any and all claims, demands, damages, costs, liability, suits, or actions of every name, kind, and description, including but not limited to those brought for or on account of property damage, invasion of privacy, violation or deprivation of a right under a state or federal law, environmental damage or penalty, or injury to or death of any person including but not limited to members of the public, the Permittee, persons employed by the Permittee, and/or persons acting on behalf of the Permittee, arising out of or in connection with: (a) the issuance and/or use of this encroachment permit; and/or (b) the encroachment, work, and/or activity conducted pursuant to this encroachment permit, or under color of authority of this encroachment permit but not in full compliance with the Permit Conditions as defined in General Provision Number 5 ("Unauthorized Work or Activity"); and/or (c) the installation, placement, design, existence, operation, and/or maintenance of the encroachment, work, and/or activity; and/or (d) the failure by the Permittee or anyone acting on behalf of the Permittee to perform the Permittee's obligations under any part of the Permit Conditions as defined in General Provision Number 5, in respect to maintenance or any other obligation; and/or (e) any change to the Department's property or adjacent property, including but not limited to the features or conditions of either of them, made by the Permittee or anyone acting on behalf of the Permittee; and/or (f) a defect or obstruction related to or caused by the encroachment, work, and/or activity whether conducted in compliance with the Permit Conditions as defined in General Provision Number 5 or constituting Unauthorized Work or Activity, or from any cause whatsoever. The duty of the Permittee to indemnify and save harmless includes the duties to defend as set forth in Section 2778 of the Civil Code.

It is the intent of the parties that except as prohibited by law, the Permittee will defend, indemnify, and hold harmless as set forth in this General Provision Number 28 regardless of the existence or degree of fault or negligence, whether active or passive, primary or secondary, on the part of: the State; the Department; the Directors, officers, employees, agents and/or contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors; the Permittee; persons employed by the Permittee; and/or persons acting on behalf of the Permittee.

The Permittee waives any and all rights to any type of expressed or implied indemnity from or against the State, the Department, and the Directors, officers, employees, agents, and/or contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors.

The Permittee understands and agrees to comply with the obligations of Titles II and III of the Americans with Disabilities Act in the conduct of the encroachment, work, and/or activity whether conducted pursuant to this encroachment permit or constituting Unauthorized Work or Activity, and further agrees to defend, indemnify, and save harmless the State, the Department, and the Directors, officers, employees, agents, and/or contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors, from any and all claims, demands, damages, costs, penalties, liability, suits, or actions of every name, kind, and description arising out of or by virtue of the Americans with Disabilities Act.

The Permittee understands and agrees the Directors, officers, employees, agents, and/or contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors, are not personally responsible for any liability arising from or by virtue of this encroachment permit.

For the purpose of this General Provision Number 28 and all paragraphs herein, "contractors of the State and/or of the Department" includes contractors under contract to the State and/or the Department, and the subcontractors of such contractors.

This General Provision Number 28 and all paragraphs herein take effect immediately upon issuance of this encroachment permit, and apply before, during, and after the encroachment, work, and/or activity contemplated under this encroachment permit, whether such work is in compliance with the Permit Conditions as defined in General Provision Number 5 or constitutes Unauthorized Work or Activity, except as otherwise provided by California law. The Permittee's obligations to defend, indemnify, and save harmless under this General Provision Number 28 take effect immediately upon issuance of this encroachment permit and have no expiration date, including but not limited to situations in which this encroachment permit expires or is revoked, the work or activity performed under this encroachment permit is accepted or not accepted by the Department, the encroachment, work, and/or activity is conducted in compliance with the Permit Conditions as defined in General Provision Number 5 or constitutes Unauthorized Work or Activity, and/or no work or activity is undertaken by the Permittee or by others on the Permittee's behalf.

**29. NO PRECEDENT ESTABLISHED:** This encroachment permit is issued with the understanding that it does not establish a precedent.

**30. FEDERAL CIVIL RIGHTS REQUIREMENTS FOR PUBLIC ACCOMMODATION:**

a) As part of the consideration for being issued this encroachment permit, the Permittee, on behalf of Permittee and on behalf of Permittee's personal representatives, successors in interest, and assigns, does hereby covenant and agree that:

- i. No person on the grounds of race, color, or national origin may be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities.
- ii. In connection with the construction of any improvements on said lands and the furnishings of services thereon, no discrimination must be practiced in the selection and retention of first-tier subcontractors in the selection of second-tier subcontractors.
- iii. Such discrimination must not be practiced against the public in their access to and use of the facilities and services provided for public accommodations (such as eating, sleeping, rest, recreation), and operation on, over, or under the space of the State highway right-of-way.
- iv. The Permittee must use the premises in compliance with all other requirements imposed pursuant to Title 15, Code of Federal Regulations, Commerce and Foreign Trade, Subtitle A. Office of the Secretary of Commerce, Part 8 (15 C.F.R. Part 8) and as said Regulations may be amended.

b) In the event of breach of any of the above nondiscrimination covenants, the State and the Department have the right to terminate this encroachment permit and to re-enter and repossess said land and the facilities thereon, and hold the same as if said permit had never been made or issued.

**31. MAINTENANCE OF HIGHWAYS:** By accepting this encroachment permit, the Permittee agrees to properly maintain any encroachment. This assurance requires the Permittee to provide inspection and repair any damage, at Permittee's expense, to State facilities resulting from the encroachment.

**32. SPECIAL EVENTS:** In accordance with subdivision (a) of Streets and Highways Code section 682.5, the Department is not responsible for the conduct or operation of the permitted activity, and the applicant agrees to defend, indemnify, and hold harmless the State, the Department, and the Directors, officers, employees, agents, and contractors of the State and/or of the Department, including but not limited to the Director of Transportation and the Deputy Directors, from any and all claims, demands, damages, costs, liability, suits, or actions of every name, kind and description arising out of any activity for which this encroachment permit is issued.

The Permittee understands and agrees to comply with the obligations of Titles II and III of the Americans with Disabilities Act in the conduct of the event, and further agrees to defend, indemnify, and save harmless the State and the Department, and the Directors, officers, and employees of the State and/or Department, including but not limited to the

Director of the Department and the Deputy Directors, from any and all claims, demands, damages, costs, liability, suits, or actions of every name, kind and description arising out of or by virtue of the Americans with Disabilities Act.

33. **PRIVATE USE OF STATE HIGHWAY RIGHT-OF-WAY:** State highway right-of-way must not be used for private purposes without compensation to the State. The gifting of public property use and therefore public funds is prohibited under the California Constitution, Article 16.
34. **FIELD WORK REIMBURSEMENT:** Permittee must reimburse the Department for field work performed on Permittee's behalf to correct or remedy hazards or damaged facilities, or to clear refuse, debris, etc. not attended to by the Permittee.
35. **NOTIFICATION OF CLOSURES TO DEPARTMENT AND TRAFFIC MANAGEMENT CENTER (TMC):** The Permittee must notify the Department's representative and the Traffic Management Center (TMC) at least seven (7) days before initiating a lane closure or conducting an activity that may cause a traffic impact. A confirmation notification should occur three (3) days before closure or other potential traffic impact. In emergency situations when the corrective work or the emergency itself may affect traffic, TMC and the Department's representative must be notified as soon as possible.
36. **SUSPENSION OF TRAFFIC CONTROL OPERATION:** The Permittee, upon notification by the Department's representative, must immediately suspend all lane closure operations and any operation that impedes the flow of traffic. All costs associated with this suspension must be borne by the Permittee.
37. **UNDERGROUND SERVICE ALERT (USA) NOTIFICATION:** Any excavation requires compliance with the provisions of Government Code section 4216 et. seq., including but not limited to notice to a regional notification center, such as Underground Service Alert (USA). The Permittee must provide notification to the regional notification center at least forty-eight (48) hours before performing any excavation work within the State highway right-of-way.
38. **COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA):** All work within the State highway right-of-way to construct and/or maintain any public facility must be designed, maintained, and constructed strictly in accordance with all applicable Federal Access laws and regulations (including but not limited to Section 504 of the Rehabilitation Act of 1973, codified at 29 U.S.C. § 794), California Access laws and regulations relating to ADA, along with its implementing regulations, Title 28 of the Code of Federal Regulations Parts 35 and 36 (28 C.F.R., Ch. I, Part 35, § 35.101 et seq., and Part 36, § 36.101 et seq.), Title 36 of the Code of Federal Regulations Part 1191 (36 C.F.R., Ch. XI, Part 1191, § 1119.1 et seq.), Title 49 of the Code of Federal Regulations Part 37 (49 C.F.R., Ch. A, Part 37, § 37.1 et seq.), the United States Department of Justice Title II and Title III for the ADA, and California Government Code section 4450 et

seq., which require public facilities be made accessible to persons with disabilities.

Notwithstanding the requirements of the previous paragraph, all construction, design, and maintenance of public facilities must also comply with the Department's Design Information Bulletin 82, "Pedestrian Accessibility Guidelines for Highway Projects."

**39. STORMWATER:** The Permittee is responsible for full compliance with the following:

- For all projects, the Department's Storm Water Program and the Department's National Pollutant Discharge Elimination System (NPDES) Permit requirements under *Order No. 2012-0011-DWQ*, *NPDES No CAS000003*; and
- In addition, for projects disturbing one acre or more of soil, with the California Construction General Permit *Order No. 2009-0009-DWQ*, *NPDES No CAS000002*; and
- In addition, for projects disturbing one acre or more of soil in the Lahontan Region with *Order No. R6T-2016-0010*, *NPDES No CAG616002*.

For all projects, it is the Permittee's responsibility to install, inspect, repair, and maintain all facilities and devices used for water pollution control practices (Best Management Practices/BMPs) before performing daily work activities.

Dist#	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

*Atifa Farooq*  
REGISTERED CIVIL ENGINEER

May 31, 2018  
PLANS APPROVAL DATE

Atifa Farooq  
CB0402  
3-31-13  
CIVIL  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TABLE 1

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X	Y	Z **
					TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	50	100	25
60	1440	720	360	240	50	100	25
65	1560	780	390	260	50	100	25
70	1680	840	420	280	50	100	25
75	1800	900	450	300	50	100	25

\* - For other offsets, use the following merging taper length formula for L:  
For speed of 40 mph or less,  $L = WS^2/60$   
For speed of 45 mph or more,  $L = WS$

Where: L = Taper length in feet

W = Width of offset in feet

S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

\*\* - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891
75	820	866	927	1003

\* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

\*\* - Longitudinal buffer space or flagger station spacing

\*\*\* - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

\* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM TABLES  
FOR LANE AND RAMP CLOSURES**

NO SCALE

**NOTES:**

See Standard Plan T9 for tables.  
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.  
 Provide at least one person to continuously maintain traffic control devices for lane closures.

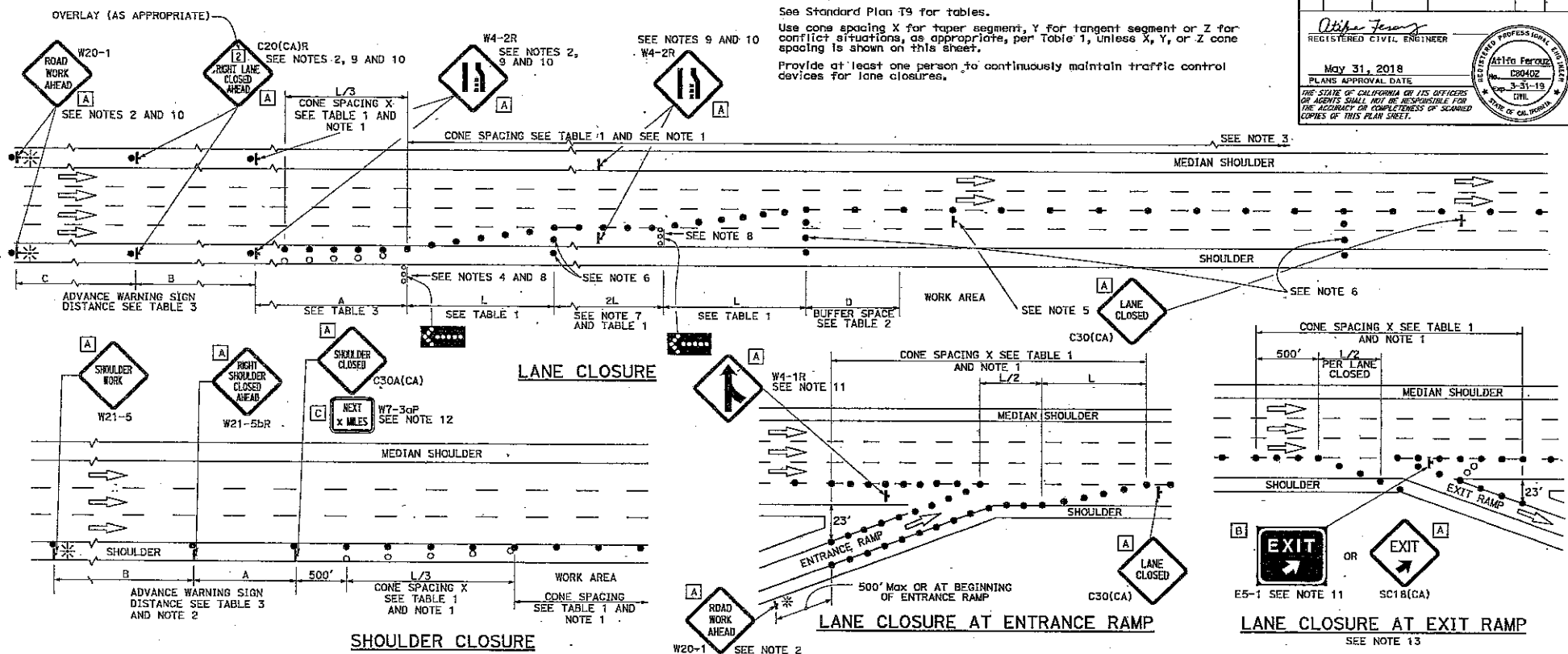
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

*Atifa Ferouz*  
 REGISTERED CIVIL ENGINEER

May 31, 2018  
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
 Atifa Ferouz  
 C20402  
 9-31-19  
 CIVIL  
 STATE OF CALIFORNIA



**NOTES:**

- Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
- Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
- A minimum 1500' sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- Place a C30(CA) sign every 1000' throughout length of lane closure.
- A minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 1000' as shown on the Lane Closure detail. Two type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- The 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- Use one flashing arrow sign for each lane closed. The flashing arrow sign shall be type I.
- Median lane closures shall conform to the details as shown except that C20(CA) and W4-2L signs shall be used.

- Duplicate sign installations are not required:
  - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
  - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
- The E5-1 or S18(CA) and W4-1 signs shall be used as shown.
- A W7-3aP "NEXT \_\_\_\_\_ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.
- For the warning sign requirements at the Exit Ramp, when work is proposed on the local street, see CA MUTCD Figure 6H-22 to 6H-27.

**LEGEND**

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⚡ FLASHING ARROW SIGN (FAS)
- ☁ FAS SUPPORT OR TRAILER
- ⚡ PORTABLE FLASHING BEACON

**SIGN PANEL SIZE (Min)**

- A 48" x 48"
- B 72" x 60"
- C 36" x 30"

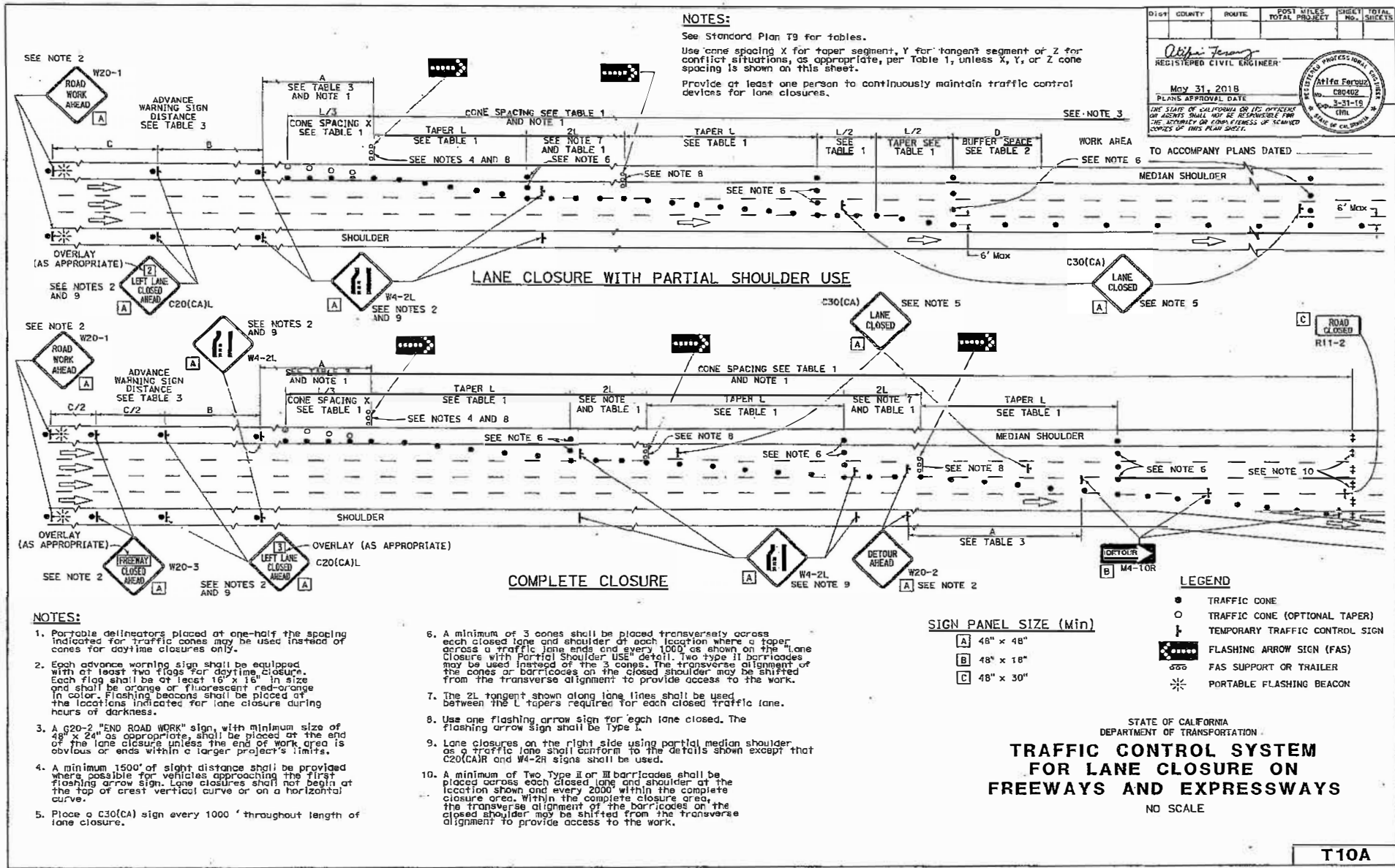
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM  
 FOR LANE CLOSURE ON  
 FREEWAYS AND EXPRESSWAYS**

NO SCALE

**T10**

287



**NOTES:**

See Standard Plan T9 for tables.  
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.  
 Provide at least one person to continuously maintain traffic control devices for lane closures.

Dist	County	Route	Post Miles	Sheet No.	Total Sheets
			TOTAL PROJECT		

Atifa Ferouz  
 REGISTERED CIVIL ENGINEER  
 No. CB0402  
 Exp. 3-31-19  
 CIVIL  
 STATE OF CALIFORNIA

May 31, 2018  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF TECHNICAL CONTENTS OF THIS PLAN SHEET.

**NOTES:**

1. Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
2. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure, unless the end of work area is obvious or ends within a larger project's limits.
4. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
5. Place a C30(CA) sign every 1000' throughout length of lane closure.

6. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 1000' as shown on the "Lane Closure with Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
7. The 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
8. Use one flashing arrow sign for each lane closed. The flashing arrow sign shall be Type A.
9. Lane closures on the right side using partial median shoulder, as a traffic lane shall conform to the details shown except that C20(CA)R and W4-2H signs shall be used.
10. A minimum of Two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.

**SIGN PANEL SIZE (Min)**

- A 48" x 48"
- B 48" x 18"
- C 48" x 30"

**LEGEND**

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⬇ FLASHING ARROW SIGN (FAS)
- ☞ FAS SUPPORT OR TRAILER
- ⚡ PORTABLE FLASHING BEACON

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR LANE CLOSURE ON  
 FREEWAYS AND EXPRESSWAYS**  
 NO SCALE

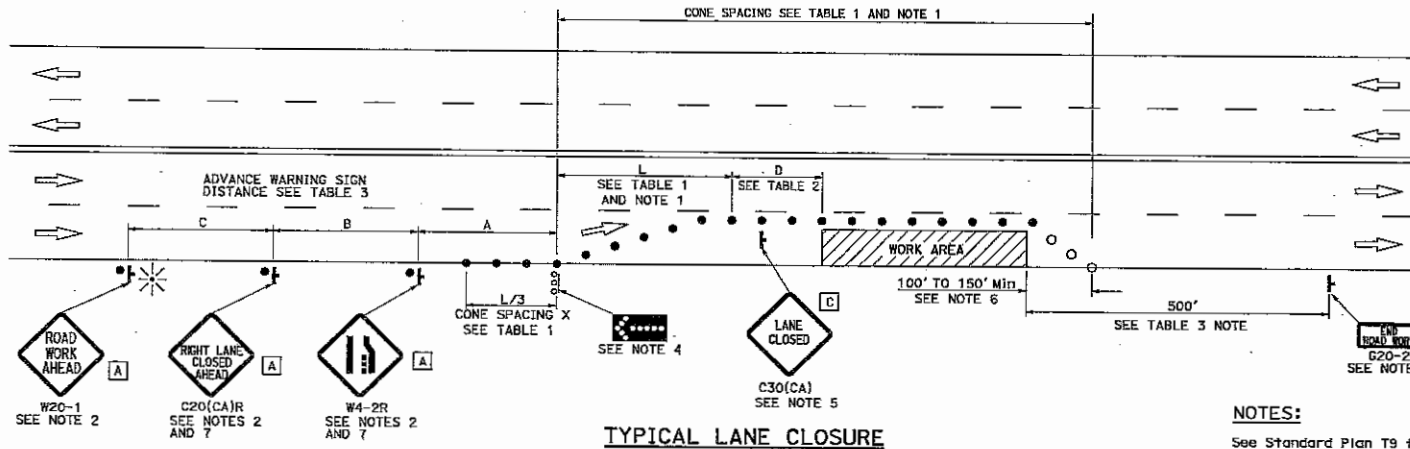
T10A

2018 STANDARD PLAN T10A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

*Alfonso Ferrouz*  
 REGISTERED CIVIL ENGINEER  
 No. CB0402  
 Exp. 3-31-19  
 STATE OF CALIFORNIA

May 31, 2018  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



**TYPICAL LANE CLOSURE**

**NOTES:**

See Standard Plan T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Provide at least one person to continuously maintain traffic control devices for lane closures.

**LEGEND**

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- † TEMPORARY TRAFFIC CONTROL SIGN
- ⚡ FLASHING ARROW SIGN (FAS)
- 666 FAS SUPPORT OR TRAILER
- ☼ PORTABLE FLASHING BEACON

**SIGN PANEL SIZE (Min)**

- A 48" x 48"
- B 36" x 18"
- C 30" x 30"

**NOTES:**

1. Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
2. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A G20-2 "END ROAD WORK" sign shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
4. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
5. Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work area.
6. Length may be reduced by the Engineer to address site conditions.
7. Median lane closures shall conform to the details shown except that C20(CA)L and W4-2L signs shall be used.
8. For approach speeds over 50 MPH, use the "Traffic Control System for Lane Closure on Freeways and Expressways" plan for lane closure details and requirements.

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR LANE CLOSURE ON  
 MULTILANE CONVENTIONAL  
 HIGHWAYS**  
 NO SCALE

**T11**



**Chart No. 1  
Road Lane Requirement Hours**

County: SD	Direction: NB Taylor St. / Hotel Circle S	PM:
------------	--	-----

Closure Limits: At Rte. 8

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	1	1	1	1	1																		1	1	1
Fridays	1	1	1	1	1																				
Saturdays																									
Sundays																							1	1	1

**Legend:**

- 1 Provide at least one through traffic lane open in direction of travel.
- Work permitted within project right of way where shoulder or lane closure is not required.

**REMARKS:**

**NOTE:** Place a PCMS (Portable Changeable Message Sign) on NB Taylor St – warning the public of the road closure ahead

Permit # 11-18-NUJ-0953-SPSALEM-11-29-2018

**Chart No. 2  
Road Lane Requirement Hours**

County: SD	Direction: EB - WB Hotel Circle South	PM:
------------	--	-----

Closure Limits: At Rte. 8

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	S	S	S	S	S																S	S	S	S	
Fridays	S	S	S	S	S																				
Saturdays																									
Sundays																						S	S	S	S

Legend:

- S Shoulder closure permitted (right / left) for placement of signs only.
- Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Permit # 11-18-NUJ-0953-SPSALEM-11-29-2018

**Chart No. 3  
Road Lane Requirement Hours**

County: SD	Route/Direction: EB - WB	PM:
Hotel Circle N		

Closure Limits: At Rte 8

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays	S	S	S	S	S																			S	S	S
Fridays	S	S	S	S	S																					
Saturdays																										
Sundays																								S	S	S

**Legend:**

- S Shoulder closure is permitted for placement of signs only
- Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

**Permit # 11-18-NUJ-0953-SPSALEM-11-29-2018**

**Chart No. 4  
Ramp Lane Requirement Hours**

County: SD	Route/Direction: 8/EB	PM: R0.765																									
		R0.864																									
		1.924																									
		1.962																									
	8/WB	2.311																									
		1.906																									
Closure Limits: EB Off-ramp to Taylor St/Hotel Circle S																											
EB On-ramp from Taylor St/Hotel Circle S																											
EB 8 Exit ramp to Hotel Circle																											
EB 8 Entrance ramp from Hotel Circle																											
WB Off-ramp to Hotel Circle N																											
WB On-ramp from Hotel Circle N																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	S	S	S	S	S																	S	S	S	S		
Fridays	S	S	S	S	S																						
Saturdays																											
Sundays																						S	S	S	S		
Legend:																											
<input checked="" type="checkbox"/> Ramp shoulder closure is permitted for placement of signs only																											
<input type="checkbox"/> Work is allowed within the highway where a shoulder or lane closure is not required.																											
REMARKS:																											

Permit # 11-18-NUJ-0953-SPSALEM-11-29-2018

**HAZARDOUS MATERIALS AND HAZARDOUS WASTE MANAGEMENT SPECIAL PROVISIONS**

TR-0408 (New 09/2017)

By acceptance of this encroachment permit, Permittee hereby agrees that:

1. All construction debris/materials/water/excess soil must become the property of the Permittee, and must be transported and disposed of, outside of Caltrans' right-of-way, in accordance with all applicable environmental laws and regulations. The Permittee must be identified as the generator for all construction debris/materials/water/excess soil and must be responsible for proper identification (including sampling and analysis) and management of all construction and contaminated debris/materials/water/excess soil that are removed, and/or excavated, from the work site. If hazardous waste is generated, the Permittee must obtain an Environmental Protection Agency (EPA) Identification Number issued in their name. State Permit Inspector does not sign any manifests or shipping papers. The Permittee must be named as the generator on all Uniform Hazardous Waste Manifests and shipping papers. Caltrans must not be identified or written anywhere on the manifests or shipping papers. Prior to waste disposal, the Permittee should submit the waste generator form(s) to State Permit Inspector for verification. The Permittee must submit to the State Permit Inspector, a copy of all manifests and/or shipping papers generated for materials removed, transported and/or excavated from the state right-of-way.
2. If contaminated material is encountered, Permittee is to stop work and contact the State Permit Inspector immediately. The Permittee must submit a Sampling and Analysis Plan (SAP), and a Health and Safety Plan (HaSP) prepared by a Certified Industrial Hygienist (CIH) and in conformance with California Code of Regulations title 8, section 5192, "Hazardous Waste Operations and Emergency Response" for sampling activity through a separate permit application. Upon the permit review, additional environmental documents may be required prior to resumption of construction activity.
3. Permittee is responsible for any violation, penalty, enforcement action, corrective action, remedial action, and any other type of consequences resulting from cross contamination of groundwater (including perched groundwater), improper handling/managing of hazardous materials and/or placement of contaminated materials inside Caltrans right-of-way.
4. It is the Permittee's responsibility to comply with the Department of Toxic Substances Control (DTSC) ADL requirements for roadway soil management. Reuse of soils containing greater than 80 mg/kg total lead is not allowed without written approval of the DTSC and Caltrans. The Soil Management Agreement for Aerially Deposited Lead-Contaminated Soils between Caltrans and the DTSC does not constitute written approval for the Permittee to reuse soils containing greater than 80 mg/kg total lead.
5. The Permittee must implement the emergency notification requirements established in the California Office of Emergency Management Hazardous Materials, Spill / Release Notification Guidance (<http://www.caloes.ca.gov/>).
6. Any imported material used for backfill must be free of contamination, and a certificate of the material as "clean" with the source area of the material must be provided to Permit Inspector upon request. Importing soils containing greater than 80 mg/kg total lead for use in state right-of-way is not allowed.
7. Stockpiles of material containing aerially deposited lead shall not be placed where affected by surface run-on or run-off. Stockpiles shall be covered with plastic sheeting 13 mils minimum thickness or with one foot of nonhazardous material. Stockpiles shall not be placed in environmentally sensitive areas. Stockpiled material shall not enter storm drains, inlets, or waters of the State.

**CERTIFICATION OF COMPLIANCE WITH AMERICANS WITH DISABILITIES ACT (ADA)**

TR-0405 (REV 03/2015)

Permit No. <b>11-18-NULJ-0953</b>
Dist/Co/Rte/PM

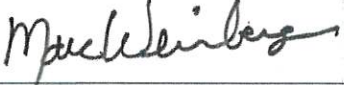
Encroachment permit projects that create, alter or affect pedestrian facilities are required to be designed and constructed in accordance with the policies and standards in the current Design Information Bulletin 82 (DIB 82). Certification of compliance must be submitted by the permittee or permittee's authorized representative prior to the issuance of an encroachment permit or rider **AND** after construction is completed. DIB 82 can be found at:

<http://www.dot.ca.gov/hq/oppd/dib/dibprg.htm>

A separate TR-0405 form must be used for the Design and Post Construction Certifications. A California Licensed Professional Engineer, Licensed Architect or Licensed Landscape Architect's Stamp\* is required except when (1) an authorized utility company representative or (2) an authorized Caltrans representative signs the form (at the discretion of the District Permit Engineer).

**Design Certification (prior to issuance of encroachment permit)**

- Marc Weinberger a California Licensed Professional Engineer, Licensed Architect or Licensed Landscape Architect, do hereby certify that:
- \_\_\_\_\_ an authorized Caltrans representative, do hereby certify that:
- \_\_\_\_\_ an authorized representative of \_\_\_\_\_ (utility company only), do certify that:
- This project has been designed in accordance with DIB 82.
- An approved Exception to Accessibility Design Standards is attached.

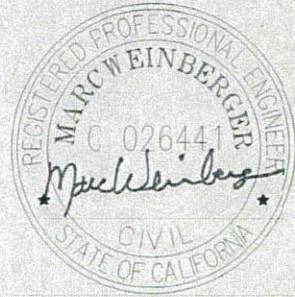
SIGNATURE	TITLE	DATE
	Principal Civil Engineer	2/11/19

**Post Construction Certification**

- \_\_\_\_\_ a California Licensed Professional Engineer, Licensed Architect or Licensed Landscape Architect, do hereby certify that:
- \_\_\_\_\_ an authorized Caltrans representative, do hereby certify that:
- \_\_\_\_\_ an authorized representative of \_\_\_\_\_ (utility company only), do certify that:
- This project has been constructed in accordance with DIB 82.
- An approved Exception to Accessibility Design Standards is attached.

SIGNATURE	TITLE	DATE

CA. LICENSED PROFESSIONAL ENGINEER, LICENSED ARCHITECT  
OR LICENSED LANDSCAPE ARCHITECT'S STAMP



*I attest to the technical information contained herein and have judged the qualifications of all technical specialists providing engineering data upon which recommendations, conclusions, and decisions were based.*

\* A Licensed Architect or Licensed Landscape Architect may prepare this document and sign and seal it in lieu of a Registered Civil Engineer, provided the same Licensed Architect or Licensed Landscape Architect designed the on-site improvements. Use the seal of the appropriate licensed person in responsible charge.

High priority utilities, pressurized facilities, pipes or ducts 6" or larger in diameter, or placement of multiple pipes or ducts, regardless of diameters are required to be encased on both conventional and access controlled highway rights-of-way.

A "High Priority Utility" is defined as: 1) a natural gas pipeline greater than 6" in diameter, or with normal operating pressures greater than 60 psig; 2) petroleum pipelines; 3) pressurized sanitary sewer pipelines; 4) high voltage electric supply lines, conductors or cables that have a potential to ground of greater than or equal to 60 kV; or 5) hazardous materials pipelines that are potentially harmful to workers or the public if damaged.

An exception to this policy may be allowed on a case by case basis for the installation of Unencased High Pressure Natural Gas Pipelines when in compliance with the TR-0158 Special Provisions.

The pavement or roadway must not be open-cut unless specifically allowed under a separate "UT" permit. Utility installations must not be installed inside of culverts or drainage structures.

For additional details regarding longitudinal utility encroachments on both conventional and access controlled highway rights-of-way, see Chapter 600.

**UG 1. CASINGS:**

Casings must be steel conduit with a minimum inside diameter sufficiently larger than the outside diameter of the pipe or ducts to accommodate placement and removal. The casing can be either new or used steel pipe, or an approved connector system. Used pipe must be pre-approved by the Department's engineer or representative before installation.

When the method of Horizontal Directional Drilling (HDD) is used to place casing, the use of High Density Polyethylene Pipe (HDPE) as casing is acceptable.

Reinforced Concrete Pipe (RCP) in compliance of State Standard Specifications is an acceptable carrier for storm drain gravity flow or non-pressure flow. RCP when installed by Bore & Jack must have rubber gaskets at the joints, and holes for grouting of voids left by jacking operations, see "E" below.

- A. Minimum wall thickness for steel pipe casing for different lengths and diameters of pipes are as follows:

Minimum Wall Thickness		
Casing Pipe (Diameter)	Up to 150 ft (Length)	Over 150 ft (Length)
6" to 28"	1/4"	1/4"
30" to 38"	3/8"	1/2"
40" to 60"	1/2"	3/4"
62" to 72"	3/4"	3/4"

- B. Spiral welded casing is authorized provided the casing is new and the weld is smooth.
- C. The ends of the casing must be plugged with ungrouted bricks or other suitable material approved by the Department's representative.
- D. When required by the Department's representative, the permittee must at his expense, pressure grout the area between the pavement and the casing from within the casing in order to fill any voids caused by the work covered under this permit. The increments for grout holes inside the pipe must be 8' staggered and located 22-1/2 degrees from vertical axis of the casing. Pressure must not exceed 5 psig for a duration sufficient to fill all voids.

- E. There is a spacing requirement when placement of multiple encasements is requested. The distance between multiple encasements must be the greater of either 24" or twice that of the diameter of the larger pipe being installed.
- F. ~~Casings placed within access controlled highway rights-of-way must extend to the right-of-way lines.~~
- G. Wing cutters, if used, must be a maximum of 1" larger than the casing. Voids caused by the use of wing cutters must be grouted in accordance with "E" above.
- H. A band welded to the leading edge of the casing must be placed square to the alignment. The band must not be placed on the bottom edge. Flaring the lead section on bores over 100' must not be permitted.
- I. All casing lengths must equal to the auger length.
- J. The casings within conventional highways must extend 5' beyond the back of curb or edge of pavement, or to the right of way line if less. Where PCC cross-gutter exists, the casing must extend at least 5' beyond the back of the cross-gutter, or to the right of way line if less.

**Bore and receiving pits must:**

- A. be located at least 10' or more from the edge of pavement on conventional highways in rural areas.
- B. be located 5' behind the concrete curb or AC dike on conventional highways in urban areas.
- C. be located 5' outside the toe of slope of embankment areas.
- D. ~~be located outside access controlled highway rights-of-way.~~
- E. be adequately fenced and/or have a Type-K barrier placed around them.
- F. be adequately shored in accordance with Cal-OSHA requirements. Shoring for jacking and receiving pits located within 15' of traffic lanes on a State highway must not extend more than 36" above the pavement grade unless otherwise authorized by Department's representative. Reflectors must be affixed to the shoring on the sides facing traffic. A 6' chain link fence must be installed around the perimeter of the pits during non-working hours.

If the trees involved are close together and of such size that it is impractical to protect all roots over 3" in diameter, or when roots are less than 4" in diameter, outside tree drip line, special arrangements may be made whereby pruning of the tree tops to balance the root loss can be done by the permittee under the close supervision of the District Landscape Specialist or District Tree Maintenance Supervisor. Manholes must not be installed within 20' of any trunk.

**UG 11. PIPES ALONG ROADWAY:**

Pipes and conduits paralleling the pavement must be located as shown on the plans or located outside of pavement as close as possible to the right-of-way line.

**UG 12. BORROW AND WASTE:**

Borrow and waste will be allowed within the work limits only as specified in the permit.

**UG 13. MARKERS:**

The permittee must not place any markers that create a safety hazard for the traveling public or departmental employees.

**UG 14. CATHODIC PROTECTION:**

The permittee must perform stray current interference tests on underground utilities under cathodic protection. The permittee must notify the Department prior to the tests. The permittee must perform any necessary corrective measures and advise the Department.

~~UG 15. DELETED Provision left blank intentionally.~~

**UG 16. INSTALLATION BY OPEN CUT METHOD:**

When the permit authorizes installation by the open cut method no more than one lane of the highway pavement must be open-cut at any one time. Any exceptions must be in writing by the Department's representative. After the pipe is placed in the open section, the trench is to be backfilled in accordance with specifications, temporary repairs made to the surfacing and that portion opened to traffic before the pavement is cut for the next section.

If, at the end of the working day, backfilling operations have not been properly completed, steel plate bridging must be required to make the entire highway facility available to the traveling public in accordance with the "Steel Plate Bridging Special Provisions" (TR-0157)

**UG 17. PAVEMENT REMOVAL:**

PCC pavement to be removed must be saw cut at a minimum depth of 4" to provide a neat and straight pavement break along both sides of the trench. AC pavement must be saw cut to the full depth.

Where the edge of the trench is within 2' of existing curb and gutter or pavement edge, the asphalt concrete pavement between the trench and the curb or pavement edge must be removed.

~~UG 18. DELETED Provision left blank intentionally.\*~~

**UG 19. SIDES OF OPEN-CUT TRENCHES:**

Sides of open cut trenches in paved areas must be kept as nearly vertical as possible. Trenches must not be more than 2' wider than the outside diameter of the pipe to be laid therein, plus the necessary width to accommodate shoring.

**UG 20. EXCAVATION UNDER FACILITIES:**

Where it is necessary to excavate under existing curb and gutter, or underground facilities, the void must be backfilled with two (2) sack cement-sand slurry.

**UG 21. PERMANENT REPAIRS TO PCC PAVEMENT:**

Repairs to PCC pavement must be made of Portland Cement Concrete containing a minimum of 658 lbs. or 7 sack of cement per cubic yard. Replaced PCC pavement must equal existing pavement thickness. The concrete must be satisfactorily cured and protected from disturbance for not less than forty-eight (48) hours. Where necessary to open the area to traffic, no more than two (2%) percent by weight of calcium chloride may be added to the mix and the road opened to traffic after six (6) hours.

**UG 22. REMOVAL OF PCC SIDEWALKS OR CURBS:**

Concrete sidewalks or curbs must be saw cut to the nearest score marks and replaced equal in dimension to that removed with score marks matching existing sidewalk or curb.

**UG 23. SPOILS:**

No earth or construction materials are to be dragged or scraped across the highway pavement, and no excavated earth placed or allowed to remain at a location where it may be tracked onto the highway traveled way, or any public or private approach by the permittee's construction equipment, or by traffic entering or leaving the highway traveled way. Any excavated earth or mud so tracked onto the highway pavement or public or private approach must be immediately removed by the permittee.

~~NOTE: Special Provision was deleted since it is already part of the EP General Provisions (TR-0045)~~



**CONTRACTOR'S RESPONSIBILITIES**

- PURSUANT TO SECTION 4216 OF THE GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION, YOU MUST CONTACT THE REGIONAL NOTIFICATION CENTER (E.G. UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.
- NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SDG&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES. (I.E., 69 KV & HIGHER)
- LOCATE AND RECONNECT ALL SEWER LATERALS. LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. LATERAL RECORDS ARE AVAILABLE TO THE CONTRACTOR AT THE WATER DEPARTMENT, 2797 CAMINITO CHOLLAS. LOCATE THE IMPROVEMENTS THAT WILL BE AFFECTED BY LATERAL REPLACEMENTS.
- EXCAVATE AROUND WATER METER BOX (CITY PROPERTY SIDE) TO DETERMINE IN ADVANCE, THE SIZE OF EACH SERVICE BEFORE TAPPING MAIN.
- CITY FORCES, WHEN SPECIFIED OR SHOWN ON THE PLANS, WILL MAKE PERMANENT CUTS & PLUGS AND CONNECTIONS.
- KEEP EXISTING MAINS IN SERVICE IN LIEU OF HIGH-LINING, UNLESS OTHERWISE SPECIFIED SHOWN ON PLANS.
- THE LOCATIONS OF EXISTING BUILDINGS AS SHOWN ON THE PLAN ARE APPROXIMATE.
- STORM DRAIN INLETS SHALL REMAIN FUNCTIONAL AT ALL TIMES DURING CONSTRUCTION.
- UNLESS OTHERWISE NOTED AS PREVIOUSLY POTHOLED (PH), ELEVATIONS SHOWN ON THE PROFILE FOR EXISTING UTILITIES ARE BASED ON A SEARCH OF THE AVAILABLE RECORD INFORMATION ONLY AND ARE SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THE CITY DOES NOT GUARANTEE THAT IT HAS REVIEWED ALL AVAILABLE DATA. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES EITHER SHOWN ON THE PLANS OR MARKED IN THE FIELD IN ACCORDANCE WITH THE SPECIFICATIONS SECTION 402-UTILITIES.
- EXISTING UTILITY CROSSING AS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT REPRESENTATIVE OF ACTUAL LENGTH AND LOCATION OF CONFLICT AREAS. SEE PLAN VIEW.
- ALL ADVANCE METERING INFRASTRUCTURE (AM) DEVICES ATTACHED TO THE WATER METER OR LOCATED IN OR NEAR WATER METER BOXES, COFFINS, OR VAULTS SHALL BE PROTECTED AT ALL TIMES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- PROVIDE A HOLIDAY FREE CORROSION PREVENTATIVE COATING FOR ALL BURIED DUCTILE IRON PIPE AND FITTINGS INCLUDING ALL BENDS, TEES, CROSSES, FLEX COUPLINGS, FLANGE BOLTS, AND VALVES. THE COATING (EPOXY, FUSION BONDED EPOXY, WAX TAPE (RECOMMENDED), OR POLYURETHANE) SHALL BE HOLIDAY FREE AND CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITE BOOK) PART 209-11.2. IF USING WAX TAPE, OVERLAP EXISTING METALLIC PIPING BY 12 INCHES ON EACH SIDE. ALL BARE COMPONENTS SUCH AS NUTS, BOLTS, ALL-THREAD, ETC. SHALL BE WAX TAPED. IF NEW METALLIC FITTING CONNECTS TO EXISTING METALLIC PIPING ON EACH SIDE, INSTALL EXOTHERMICALLY WELDED BON CABLES PER SDW-122. IF ANY PIPE MATERIALS ARE CHANGED TO METALLIC PIPE DURING THE DESIGN DEVELOPMENT OR CONSTRUCTION PHASE, A NEW REVIEW CYCLE BY THE CITY'S CORROSION SECTION WILL BE REQUIRED.
- FOR COORDINATION OF THE SHUTDOWN OF TRANSMISSION MAINS (6 INCHES OR LARGER), CONTACT THE CITY'S SENIOR WATER DISTRIBUTION OPERATIONS SUPERVISOR AT (619) 527-7465. FOR COORDINATION OF THE SHUTDOWN OF DISTRIBUTION MAINS (LESS THAN 6 INCHES), CONTACT THE CITY'S WATER OPERATIONS DISTRICT MANAGER AT (619) 527-3945.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING ASBESTOS CEMENT PIPE PER ALL APPLICABLE REGULATIONS.
- THRUST BLOCKS SHALL BE USED ON ALL PRESSURE PIPE AT ALL TEES, CROSSES, BENDS, VALVES, AND REDUCERS PER CITY OF SAN DIEGO STANDARD DRAWING SD-151.

# HOTEL CIRCLE ACCELERATED CI & AC REPLACEMENT

**RECEIVED**  
APR 05 2019

PERMIT NUMBER U-18-NUL-0953  
CO\_SD RTE\_B\_PM 0.81-L93  
AS-BUILT PLAN FOR ROADWAY  
GEOMETRIC AND ABOVE GROUND FEATURES  
STATE REPRESENTATIVE DATE \_\_\_\_\_  
PLAN SET \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_

**CALTRANS-PERMIT LEGEND**

IMPROVEMENTS	REFERENCE	SYMBOL
TRENCH RESURFACING	SDG-107, SDG-108	
CUTTING AND PLUGGING ABANDONED WATER MAIN	WP-03	E-----
SURVEY MONUMENT	M-10, M-10A, M-10B	△
WATER MAIN & APPURTENANCES	SDM-105, SDW-110, SDW-151, SDW-161	—X—
VALVES WITH CAPS AND WELLS	SDW-109, SDW-152, SDW-153, WV-05	⊕
6" FIRE HYDRANT ASSEMBLY & MARKER 2-PORT UNLESS SPECIFIED AS 3-PORT	SDM-105, SDW-104, SDW-109, SDW-152, SDW-153	⊕
1" WATER SERVICE UNLESS OTHERWISE SPECIFIED	SDM-105, SDW-107, SDW-134, SDW-135, SDW-136, SDW-137, SDW-138, SDW-149, SDW-150, WS-03	WM P.L. (W)
BLOW-OFF ASSEMBLY	SDM-105, SDW-106, SDW-143, SDW-144, SDW-145, SDW-146, WB-05,	B.O. (W)
AIR & VACUUM VALVE	SDM-105, SDW-117, SDW-158, SDW-159, SDW-160	A.V.
HIGHLIGHTING BY CONTRACTOR	SDW-170, SDW-171, SDW-172, SDW-173, SDW-174 IF APPLICABLE	
FOR ADDITIONAL SYMBOLS SEE RESURFACING, CURB RAMP AND TRAFFIC CONTROL SHEETS.		

**SHEET INDEX**

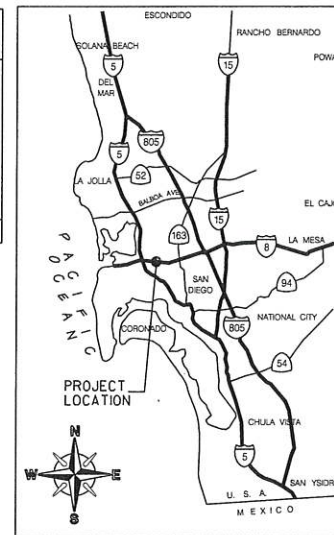
SHEET NO.	DISCIPLINE CODE	TITLE	LIMITS	PIPE		LENGTH (FT)
				SIZE (IN)	MATERIAL	
1	G-1	COVER SHEET				
2	G-2	KEY MAPS				
3	D-1	DEMOLITION PLAN				
4	C-1	I-8 AND HOTEL CIRCLE PLACE	TAYLOR STREET TO HOTEL CIRCLE PLACE N	12", 12", 30", 36"	PVC, STL, STL, STL	212', 390', 32', 310'
5	C-2	HOTEL CIRCLE PLACE	STA 7+00 TO STA 15+00	12"	PVC	800'
6	C-3	HOTEL CIRCLE PLACE	STA 15+00 TO STA 19+10	8", 12"	PVC, PVC	13', 398'
7	C-4	HOTEL CIRCLE SOUTH	AREA 2 AND AREA 4	8", 16", 30"	PVC, PVC, STL	52', 71', 64'
8	C-5	DETAILS I			TOTAL WATER	2329'
9	C-6	DETAILS II				
10	C-7	WORK BY CITY FORCES				
11	C-8	STREET RESURFACING PLAN				
12	C-9	BATCH DISCHARGE PLAN				
13	C-10	WATER ABANDONMENT PLAN				
14	C-11	SURVEY MONUMENTATION PLAN				
15	C-12	CURB RAMP LOCATION				
	T-1	TRAFFIC PLANS				

**DISCIPLINE CODE**

- G GENERAL
- D DEMOLITION
- C CIVIL
- T TRAFFIC CONTROL

**WORK TO BE DONE**

ABANDONMENT, REMOVAL AND REPLACEMENT OF CAST IRON AND ASBESTOS CEMENT PIPES, INSTALLATION OF PVC AND STEEL PIPES, AND ADA RAMP IMPROVEMENTS.



VICINITY MAP  
NOT TO SCALE

**I-8 & HOTEL CIRCLE**

**REFERENCES:**

CALTRANS LO MAPS 14504, 14505, 14506, 14508, 14509, 14501, 4, PARCEL MAP 3058, 16469, 19438, 18040, 18305, 21066 RECORD OF SURVEY 6238, 11247, 16347 SUBDIVISION MAPS 5344, 5661, 6102, 6337, 6478 CITY DWG 12400-B MM 36, 40

**BASIS OF BEARINGS/COORDINATES:**

The Basis of Bearings for this project was derived from a previous STATIC GPS SURVEY using R.O.F S. 14492 NAD 83 feet, Zone 6 (epoch 1991.35), utilizing RTK/GPS field procedures with a CALTRANS Base Station broadcast of 2014 and constraining to GPS 958 (P+25) and checking GPS 931 (P+20), I.E. S 77° 28' 50" W.

**BENCH:**

NWBP HOTEL CIRCLE NORTH & HOTEL CIRCLE PLACE (P+29) Elev. (21.863) MSL, Based on NGVD 29 FEET as shown in the City of San Diego Bench Book

TOPO WBS NO.: B16023f\_SITE 3, CHIEF: RICK ENGINEERING, INSTRUMENT: RICK ENGINEERING, CADD: R. MORENO, INDEX: 216-1710, LC MIN: 216-1710, LC MAX: 218-1719

**APPROVED ENCROACHMENT PERMIT PLAN**

Permit No. **118NUL0953**

APR 05 2019

Date: \_\_\_\_\_  
**DECLARATION OF RESPONSIBLE CHARGE**

\* I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

*Muelke*  
(ENGINEER'S NAME)

4/4/19

DATE

**CONSTRUCTION STORM WATER PROTECTION NOTES**

- TOTAL SITE DISTURBANCE AREA (ACRES) 0.16  
HYDROLOGIC UNIT/ WATERSHED SAN DIEGO/SAN DIEGO RIVER  
HYDROLOGIC SUBAREA NAME & NO. MISSION SAN DIEGO & 907.11
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE  
 WPCP  
THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100  
 SWPPP  
THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100 AND CONSTRUCTION GENERAL PERMIT ORDER 2009-0009-DWO AS AMENDED BY ORDER 2010-0014-DWO AND 2012-0006-DWO  
TRADITIONAL RISK LEVEL  1  2  3  
LUP: RISK TYPE  1  2  3
- CONSTRUCTION SITE PRIORITY  
 ASBS  HIGH  MEDIUM  LOW



550 WEST C STREET, SUITE 1200, SAN DIEGO, CA 92101

**AS-BUILT INFORMATION**

MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
PIPE SDR 35 (SEWER)	-
GATE VALVES	-
FIRE HYDRANTS	-
SEWER MANHOLES	-
REHABILITATE SEWER MANHOLES	-
REHABILITATE SEWER MAIN	-

SPEC. NO.		CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 1 OF 15 SHEETS		WATER WBS B-18235
APPROVED	FOR CITY ENGINEER BRIAN VITELLE PRINT DCE NAME	DATE C73039 RCE#	SUBMITTED BY GABRIEL TORRES PROJECT MANAGER	
DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	BH/XLF			
				SEE SHEETS CC527 COORDINATE
				SEE SHEETS CC583 COORDINATE
CONTRACTOR INSPECTOR		DATE STARTED		41025-01-D
		DATE COMPLETED		

**ABBREVIATIONS**

ABAND	ABANDON	EX, EXIST	EXISTING	RED	REDUCER
ABAND'D	ABANDONED	F	FLANGE	RCP	REINFORCED CONCRETE PIPE
AC	ASBESTOS CEMENT PIPE	FH	FIRE HYDRANT	RCSC	REINFORCED CONCRETE STEEL CYLINDER
AHD	AHEAD	GV	GATE VALVE	RT	RIGHT
ASSY	ASSEMBLY	Hwy	HIGHWAY	RWGV	RESILIENT WEDGE GATE VALVE
BFV	BUTTERFLY VALVE	HP	HIGH PRESSURE	SD	STORM DRAIN
BK	BACK	IE	INVERT ELEVATION	S	SURVEY LINE
CATV	CABLE TV	LT	LEFT	STA.	STATION
CI	CAST IRON PIPE	LJ	MECHANICAL JOINT	STL	STEEL
C	CENTER LINE	MJ	MECHANICAL JOINT	SWR	SEWER
CML	CEMENT MORTAR LINED	OVHD	OVER HEAD	TEL	TELEPHONE
COND	CONDUIT	PE	POLYETHYLENE	TRANS	TRANSITION
CONT	CONTINUED	PI	POINT OF INTERSECTION	UNK	UNKNOWN
DI	DUCTILE IRON	POB	POINT OF BEGINNING	VC	VITRIFIED CLAY PIPE
EL, ELEV	ELEVATION	POE	POINT OF ENDING	WM	WATER METER
ELEC	ELECTRIC	PVC	POLYVINYL CHLORIDE	WTR	WATER
		PROP	PROPOSED		

**CONSTRUCTION CHANGE / ADDENDUM**

CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.

**WARNING**

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

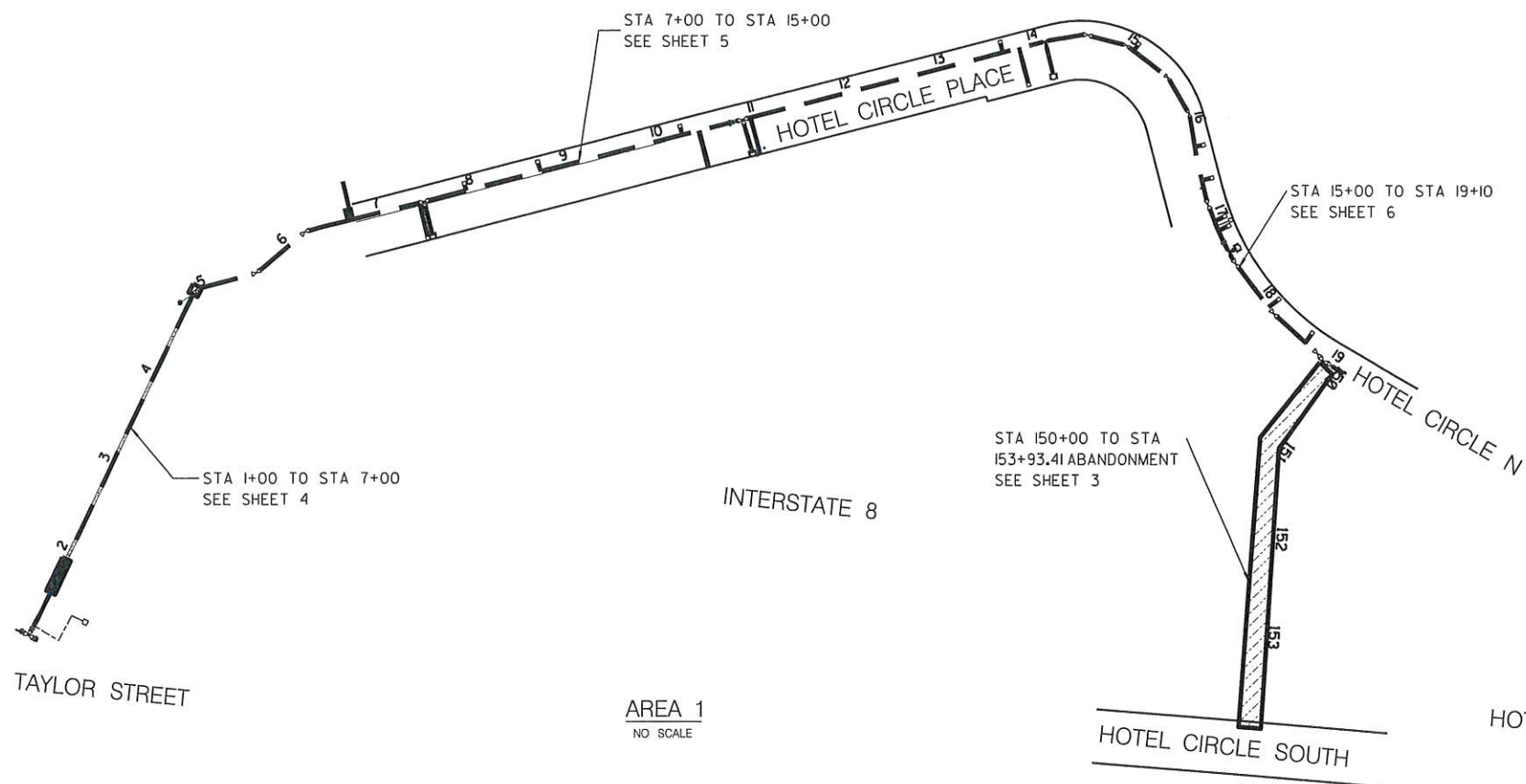
The City of **SAN DIEGO** Public Utilities

PERMIT NUMBER I-18-NILI-0953  
 CO\_SD RTE\_B\_PM\_0.81-1.93  
 AS-BUILT PLAN FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND FEATURES

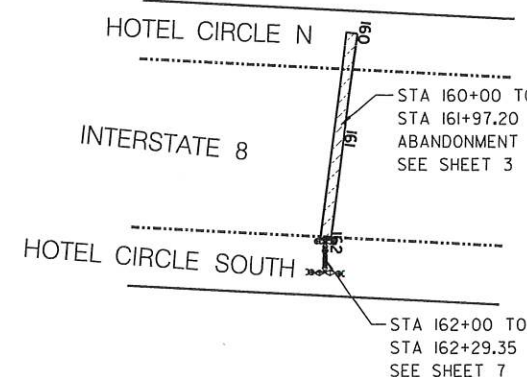
STATE REPRESENTATIVE DATE \_\_\_\_\_  
 PLAN SET \_\_\_\_ PAGE \_\_\_\_ OF \_\_\_\_

APPROVED ENCROACHMENT PERMIT PLAN

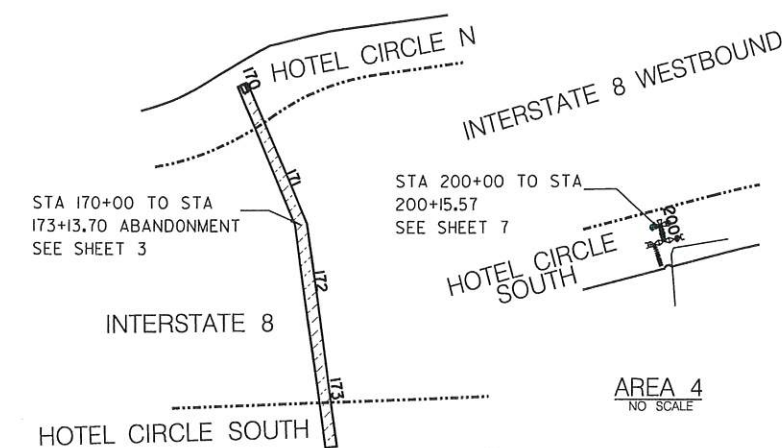
Permit No.: 118NUI0953  
 Date: APR 05 2019



AREA 1  
NO SCALE



AREA 2  
NO SCALE



AREA 3  
NO SCALE




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APR 05 2019

CALTRANS-PERMIT

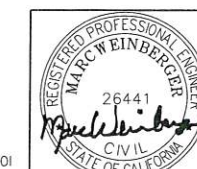


LEGEND

- WATER ABANDONMENT 
- PROPOSED WATER PIPE 
- PROPOSED CASING PIPE 



550 WEST C STREET, SUITE 1200, SAN DIEGO, CA 92101



HOTEL CIRCLE ACCELERATED CI & AC REPLACEMENT KEY MAP			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 2 OF 15 SHEETS			WATER WBS B-18235
APPROVED FOR CITY ENGINEER BRIAN VITELLE PRINT DCE NAME	DATE C73039 RCE#	DATE	APPROVED BY GABRIEL TORRES PROJECT MANAGER
DESCRIPTION ORIGINAL	BY BH/KLF	DATE	PROJECT ENGINEER ROY GANZON
			SEE SHEETS CCS27 COORDINATE
			SEE SHEETS CCS83 COORDINATE
CONTRACTOR INSPECTOR	DATE STARTED	DATE COMPLETED	41025-02-D

G-2

PERMIT NUMBER W-18-NLU-0953  
 CO\_SD\_RTE\_8\_PM\_0.81-1.93  
 AS-BUILT PLAN FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND FEATURES  
 STATE REPRESENTATIVE DATE \_\_\_\_\_  
 PLAN SET \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_

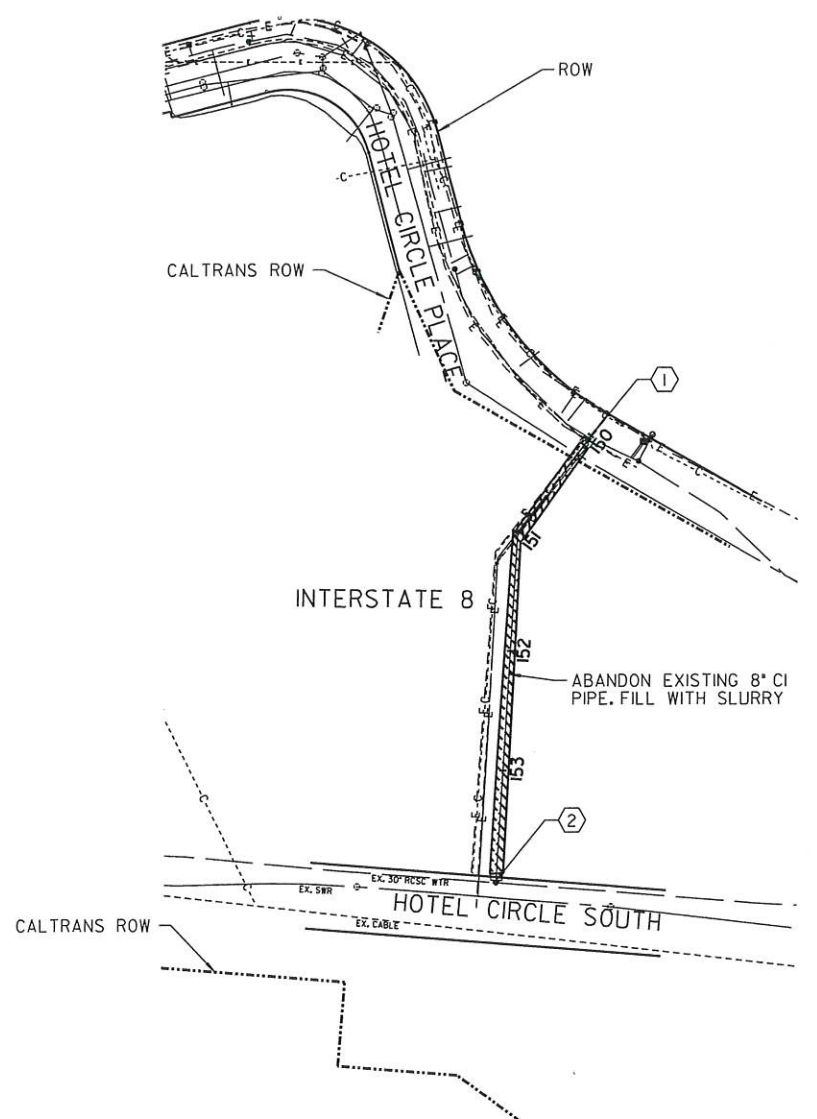
- ① BY CITY FORCES  
AHD OF CONTRACTOR  
STA 150+00  
CUT & PLUG EX. 8" CI  
WTR FOR ABANDONMENT
- ② BY CITY FORCES  
AHD OF CONTRACTOR  
STA 153+93.41  
CUT & PLUG EX. 8" CI  
WTR FOR ABANDONMENT
- ③ BY CITY FORCES  
AHD OF CONTRACTOR  
STA 160+00  
CUT & PLUG EX. 8" AC  
WTR FOR ABANDONMENT
- ④ BY CITY FORCES  
AHD OF CONTRACTOR  
STA 161+97.20  
CUT & PLUG EX. 8" AC  
WTR FOR ABANDONMENT
- ⑤ BY CITY FORCES  
AHD OF CONTRACTOR  
STA 170+00  
CUT & PLUG EX. 8"  
WTR FOR ABANDONMENT
- ⑥ BY CITY FORCES  
AHD OF CONTRACTOR  
STA 173+13.70  
CUT & PLUG EX. 8"  
WTR FOR ABANDONMENT
- ⑦ BY CITY FORCES  
AHD OF CONTRACTOR  
STA 173+18.70  
CUT & PLUG EX. 8"  
WTR FOR ABANDONMENT
- ⑧ BY CITY FORCES  
AHD OF CONTRACTOR  
STA 173+53.48  
CUT & PLUG EX. 8"  
WTR FOR ABANDONMENT

REPORT RESULTS

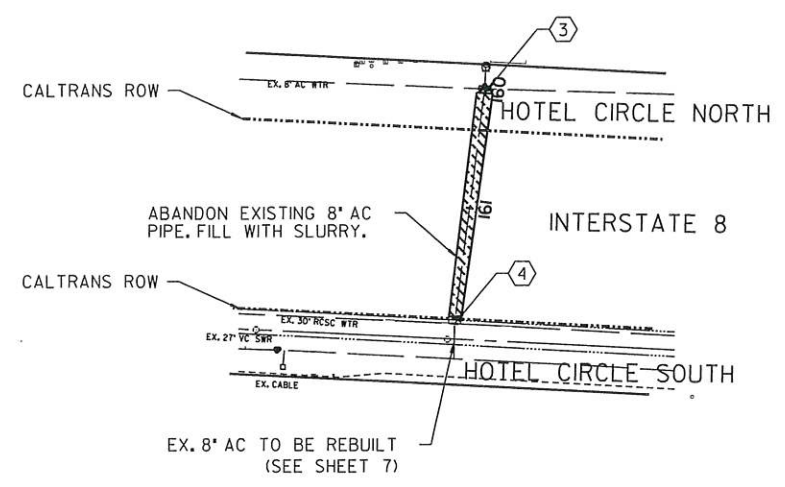
HORIZONTAL ALIGNMENT REPORT  
 PROJECT NAME: GROUP JOB REMAINING CAST IRON PHASE II

PT	POINT	NORTHING (Y)	EASTING (X)
1	PI	1857703.74	6273730.21
2	PI	1857333.26	6273651.60
3	PI	1857460.42	6275617.76
4	PI	1857264.76	6275593.42
5	PI	1857761.49	6278185.03
6	PI	1857459.34	6278267.91
7	PI	1857454.04	6278268.17
8	PI	1857426.48	6278271.32

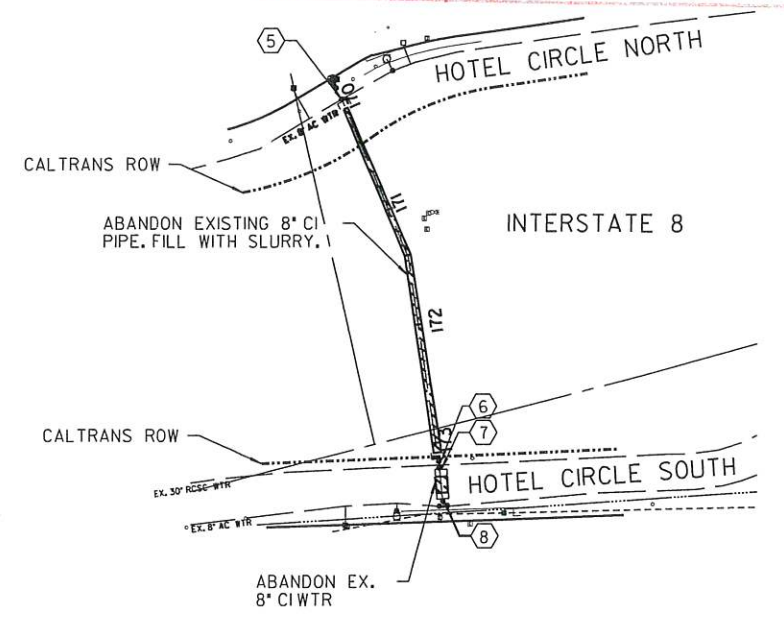
APPROVED ENCROACHMENT PERMIT PLAN  
 Permit No.: **118 NUT0953**  
 Date: **APR 05 2019**



AREA 1: HOTEL CIRCLE PLACE TO HOTEL CIRCLE SOUTH  
 SCALE 1"=80'

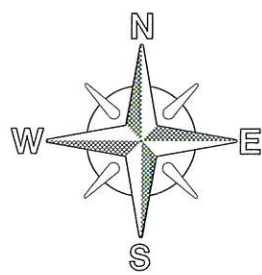


AREA 2: HOTEL CIRCLE NORTH TO HOTEL CIRCLE SOUTH  
 SCALE 1"=80'



AREA 3: HOTEL CIRCLE NORTH TO HOTEL CIRCLE SOUTH  
 SCALE 1"=80'

LEGEND



550 WEST C STREET, SUITE 1200, SAN DIEGO, CA 92101

REFERENCE:  
 WATER: 32317  
 SEWER: 32317  
 STORM DRAIN: 32317  
 FIELD BOOK:  
 THOMAS BROS.:  
 RETIREMENTS:  
 8" CI - 739' - 1966  
 8" AC - 188' - 1966

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 APR 05 2019  
 CALTRANS-PERMIT

D-1

HOTEL CIRCLE CI AND AC  
 ACCELERATED REPLACEMENT  
 DEMOLITION PLAN

SPEC NO.		CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 3 OF 15 SHEETS		WBS	B-18235
APPROVED FOR CITY ENGINEER BRIAN VITELLE PRINT DCE NAME		DATE C73039 RCE#	SUBMITTED BY GABRIEL TORRES PROJECT MANAGER		
DESIGNED BY ROY GANZON PROJECT ENGINEER		SEE SHEETS CC827 COORDINATE			
DESCRIPTION		BY	APPROVED	DATE	FILMED
ORIGINAL		BH/KLF			
CONTRACTOR INSPECTOR		DATE STARTED		DATE COMPLETED	
				41025-3-D	

PERMIT NUMBER 18-NUL-0953  
 CO. SD. RTE. R. PM. 0.81-1.93  
 AS-BUILT PLAN FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND FEATURES  
 STATE REPRESENTATIVE DATE \_\_\_\_\_  
 PLAN SET \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_

**RECEIVED**

ADD 05 2019

**CALTRANS-PERMIT**

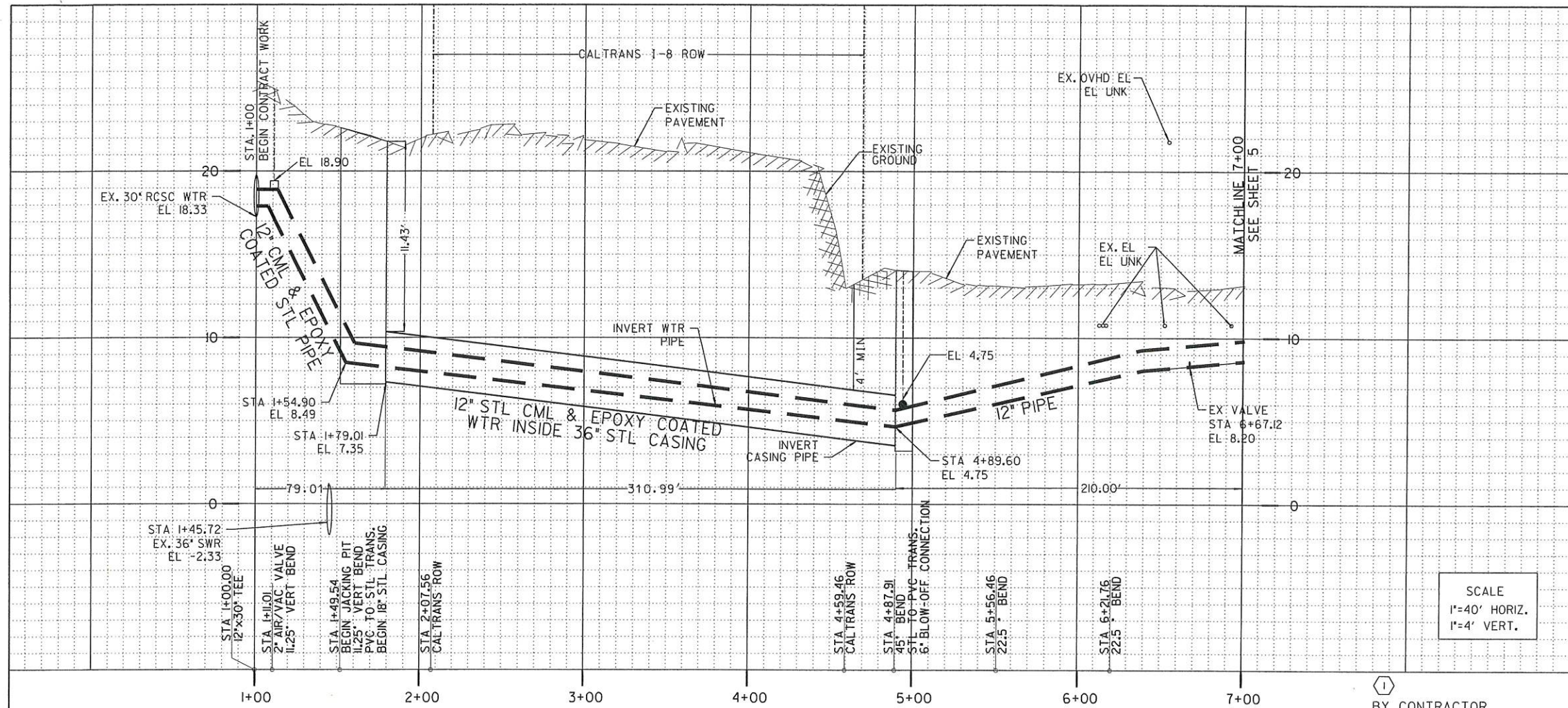
POINT ELEMENT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)
1 POB	1+00.00	1857427.246272390.20	
		STRAIGHT 49.54	N 27° 42' 14.15" E
2 PI	1+49.54	1857471.10 6272413.23	
		STRAIGHT 338.37	N 25° 52' 03.50" E
3 PI	4+87.91	1857775.576272560.86	
		STRAIGHT 68.55	N 71° 23' 55.51" E
4 PI	5+56.46	1857797.43 6272625.82	
		STRAIGHT 65.31	N 50° 05' 55.59" E
5 PI	6+21.76	1857839.33 6272675.92	
		STRAIGHT 131.90	N 76° 37' 01.55" E

CONTRACTOR'S NOTES:  
 1. GROUNDWATER ENCOUNTERED AT TIME OF SUBSURFACE INVESTIGATION. DEWATERING IS ANTICIPATED FOR TRENCHLESS INSTALLATION OF PIPE.  
 2. EXISTING EUG TO BE PROTECTED IN PLACE @ STA 6+31 FROM PROPOSED 12" PVC WATER PIPE.  
 3. EXISTING EUG TO BE PROTECTED IN PLACE @ STA 6+69.14 FROM PROPOSED 12" PVC WATER PIPE.  
 4. EXISTING BERM AT CALTRANS PARK-N-RIDE TO BE PROTECTED IN PLACE FROM JACKING PIT.  
 5. CONTRACTOR TO VERIFY LOCATION AND QUANTITY OF EXISTING WATER SERVICE LATERALS BEFORE REPLACING.

APPROVED ENCROACHMENT PERMIT PLAN

Permit No.: 118NUL0953

Date: APR 05 2019



SCALE  
 1"=40' HORIZ.  
 1"=4' VERT.

HIGHLIGHTING NOTE:  
 CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

- ① BY CONTRACTOR FURNISH & INSTALL CUT-IN TEE  
 STA 1+00,  
 1- 12"x30" STL TEE (F, F, F)  
 2 - 30" BFV (F, PE) RT, LT  
 1- 12" GV (MJ, F) AHD  
 CLOSE AND BLIND FLANGE 12" GV, AHD RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED AND OPEN 12" GV AND REMOVE BLIND FLANGE, AHD 1- 1" AIR/VACUUM ASSY (AHD) SEE DETAIL 1 SHEET 8  
 11.25" VERT BEND (F, MJ)
- ② BY CONTRACTOR FURNISH & INSTALL  
 STA 1+49.54  
 BEGIN 38'x10' JACKING PIT
- ③ BY CONTRACTOR FURNISH & INSTALL  
 STA 4+87.91  
 BEGIN 10'x10' RECEIVING PIT  
 1- 12" 45" BEND RT (MJ, F)  
 1- 12" STL TO PVC TRANS COUPLING AHD (F, MJ)  
 SEE DETAIL 3 SHEET 9
- ④ BY CONTRACTOR FURNISH & INSTALL  
 STA 5+56.46  
 22.5" BEND (MJ, MJ)
- ⑤ BY CONTRACTOR FURNISH & INSTALL  
 STA 6+21.76  
 22.5" BEND (MJ, MJ)

RETIREMENTS:  
 8" - AC WTR - 40J5' - 1960  
 1" SERVICE - 2 - COPPER - YEAR UNK

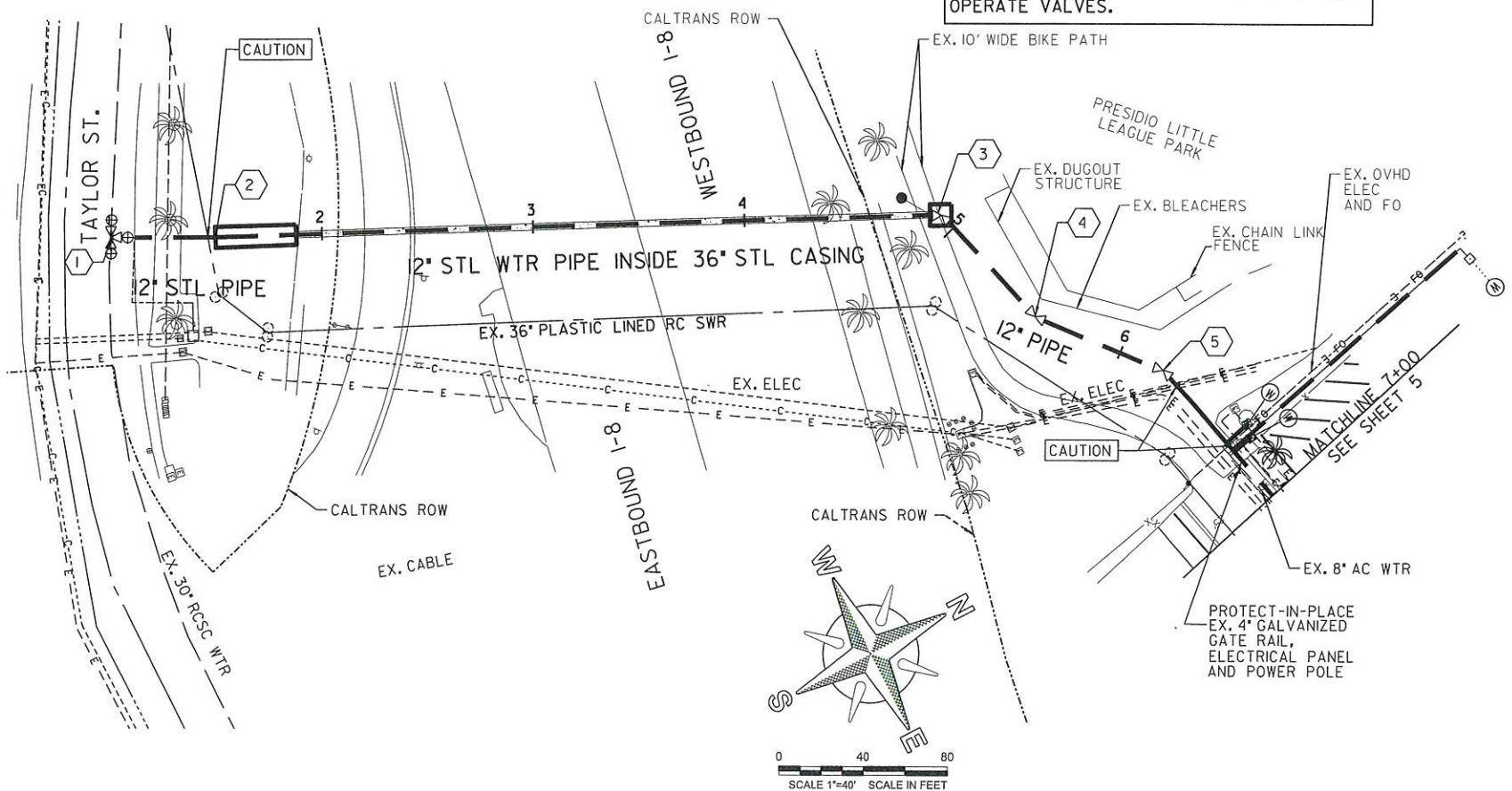
SUMMARY:  
 12" STL - 390 LF  
 36" STL - 310 LF  
 12" PVC - 212 LF  
 30" STL - 32 LF

REFERENCE:  
 WATER: 7772, 32317, 16842-6-D  
 SEWER: 32317, 5680  
 STORM DRAIN: 10229-5-D  
 FIELD BOOK: NONE

C-1

HIGHLIGHTING LINE:  
 CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CONTRACTOR'S NOTE:  
 CONTRACTOR SHALL PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED TO FIELD FIT INTO EXISTING 30-INCH RCSC PIPELINE. COST SHALL BE INCLUDED IN PIPELINE COSTS.



550 WEST C STREET, SUITE 1200, SAN DIEGO, CA 92101

SPEC NO. \_\_\_\_\_

CITY OF SAN DIEGO, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT  
 SHEET 4 OF 15 SHEETS

WBS B-18235

APPROVED BY: **GABRIEL TORRES**  
 PROJECT MANAGER

CHECKED BY: **ROY GANZON**  
 PROJECT ENGINEER

DATE: \_\_\_\_\_  
 DATE COMPLETED: \_\_\_\_\_

DESCRIPTION BY APPROVED DATE FILMED

26441  
 MA R. C. WEINBERGER  
 CIVIL  
 STATE OF CALIFORNIA

214-1707  
 CCS27 COORDINATE

1854-6267  
 CCS88 COORDINATE

CONTRACTOR INSPECTOR \_\_\_\_\_

41025-4-D

PERMIT NUMBER 1118-NW-0953  
 CO. SD RTE. B. PM. 0.81-1.93  
 AS-BUILT PLAN FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE \_\_\_\_\_  
 PLAN SET \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)
12	PI 15+49.32	1857997.37	6273565.77
	STRAIGHT	42.67	S 30° 40' 20.07" E
13	PI 15+91.99	1857960.67	6273587.54
	STRAIGHT	95.27	S 11° 53' 40.78" E
14	PI 16+87.27	1857867.44	6273607.17
	STRAIGHT	41.81	S 23° 01' 16.49" E
15	PI 17+29.07	1857828.97	6273623.52
	STRAIGHT	11.32	S 28° 12' 39.58" E
16	PI 17+40.39	1857818.99	6273628.87
	STRAIGHT	13.81	S 30° 01' 57.09" E
17	PI 17+54.20	1857807.04	6273635.78
	STRAIGHT	64.20	S 37° 47' 24.34" E
18	PI 18+18.40	1857756.31	6273675.12
	STRAIGHT	60.68	S 48° 22' 45.25" E
19	PI 18+79.08	1857716.00	6273720.48
	STRAIGHT	31.81	S 54° 39' 57.16" E
20	POE 19+10.88	1857697.61	6273746.43

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**APR 05 2019**  
**CALTRANS-PERMIT**

CONTRACTOR'S NOTES:  
 1. WHERE A 1' MIN VERTICAL CLEARANCE BETWEEN PROPOSED AND EXISTING UTILITIES CANNOT BE ACCOMPLISHED, USE A 6" MINIMUM SAND CUSHION WITH 1" NEOPRENE PAD.  
 2. EXISTING EUG TO BE PROTECTED IN PLACE @ STA 15+22 FROM PROPOSED 12" PVC WATER PIPE.  
 GAS  
 3. EXISTING 3" STL GAS MAIN TO BE PROTECTED IN PLACE @ STA 19+00 FROM PROPOSED 12" PVC WATER PIPE.

SCALE  
 1"=40' HORIZ.  
 1"=4' VERT.

APPROVED ENCROACHMENT PERMIT PLAN  
 1118/NW/0953

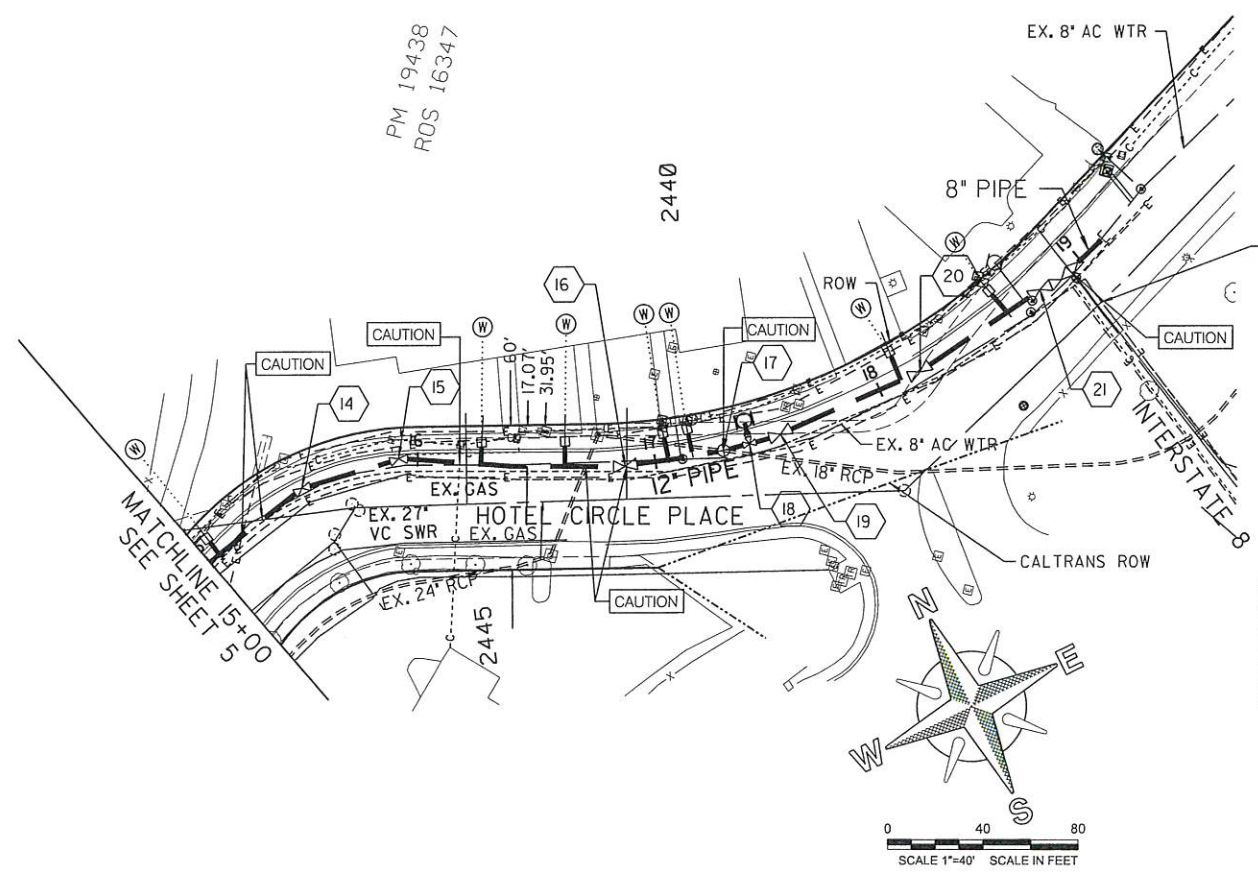
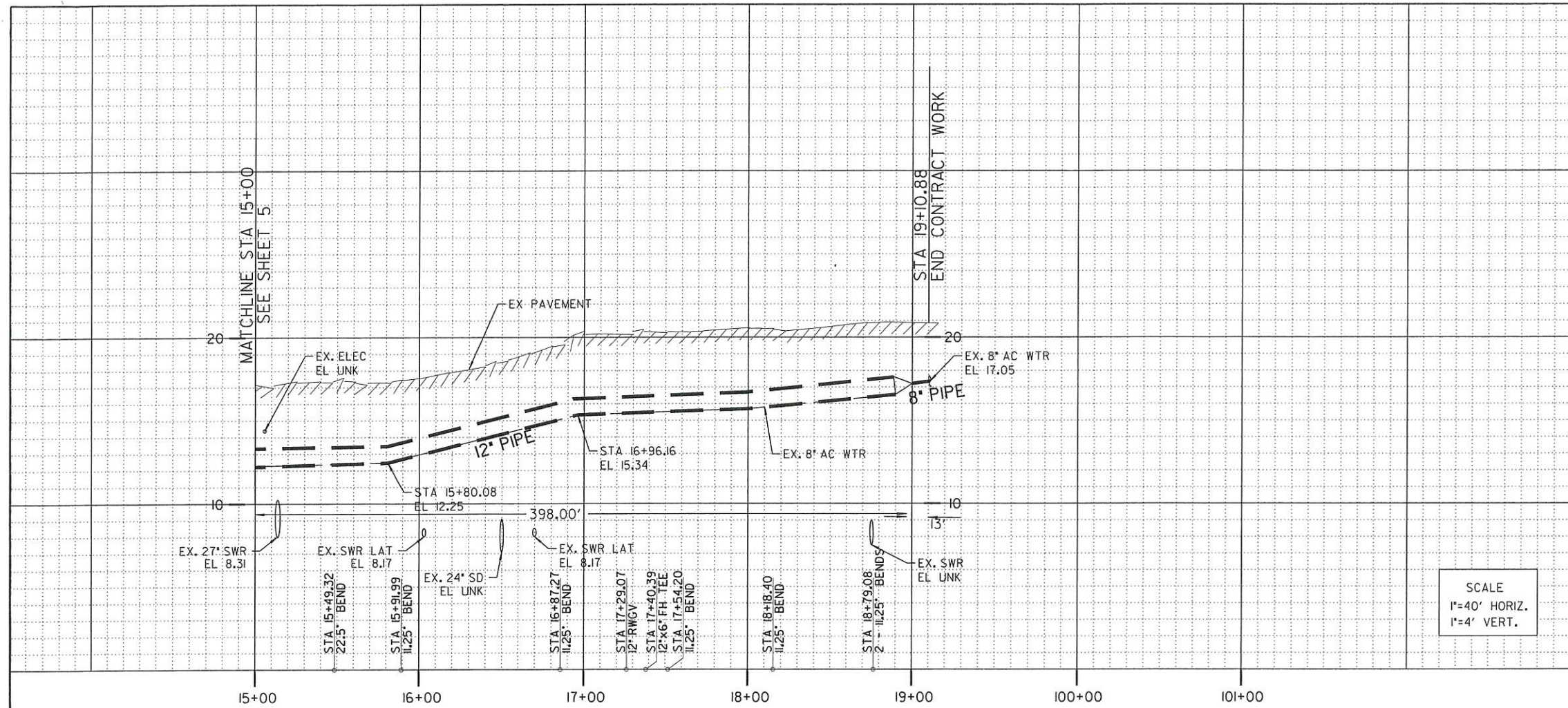
Permit No. \_\_\_\_\_

Date: **APR 05 2019**

RETIREMENTS:  
 8" AC WTR - 411' - 1960  
 1" SERVICE - 7' - UNK MATL - UNK YEAR  
 FH (2 PORT)- 1

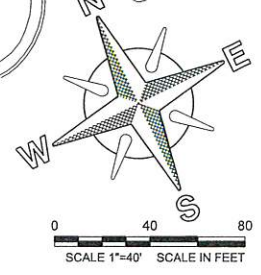
SUMMARY:  
 12" PVC - 398 LF  
 8" PVC - 13 LF

REFERENCE:  
 WATER: 14411  
 SEWER: 5678  
 STORM DRAIN: 11342-1-D, 11342-2-D  
 FIELD BOOK: NONE



- 14 BY CONTRACTOR FURNISH & INSTALL  
 STA 15+49.32  
 1- 12" 22.5 BEND (MJ,MJ)
- 15 BY CONTRACTOR FURNISH & INSTALL  
 STA 15+91.99  
 12" - 22.5" BEND (MJ,MJ)
- 16 BY CONTRACTOR FURNISH & INSTALL  
 STA 16+87.27  
 1- 12" 11.25" BEND (MJ,MJ)
- 17 BY CONTRACTOR FURNISH & INSTALL  
 STA 17+29.07  
 12" RWGV (MJ,MJ)
- 18 BY CONTRACTOR FURNISH & INSTALL  
 STA 17+40.39  
 1- 12"x6" TEE (MJ,MJ,F)  
 1- 6" FH ASSY AND MARKER
- 19 BY CONTRACTOR FURNISH & INSTALL  
 STA 17+54.20  
 12" - 11.25" BEND (MJ,MJ)
- 20 BY CONTRACTOR FURNISH & INSTALL  
 STA 18+18.40  
 12" - 11.25" BEND (MJ,MJ)
- 21 BY CITY FORCES AHD OF CONTRACTOR  
 CUT AND PLUG EX 8" AC WTR, 13' AHD (OR AT NEAREST JOINT)  
 RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED
- 22 BY CONTRACTOR FURNISH & INSTALL  
 STA 18+79.08  
 8" BK REMOVE EX. FH

CONTRACTOR'S NOTE  
 CONTRACTOR SHALL PROVIDE AS-NEEDED HORIZONTAL AND VERTICAL FITTINGS TO CONNECT TO EX. 8" AC WTR. THESE SHALL BE INCLUDED IN THE PIPELINE COSTS.



550 WEST C STREET, SUITE 1200, SAN DIEGO, CA 92101

SPEC NO.		CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 6 OF 15 SHEETS		WBS	B-18235
APPROVED:	DATE	SUBMITTED BY:		GABRIEL TORRES PROJECT MANAGER	
FOR CITY ENGINEER	DATE	CREATED BY:		ROY GANZON PROJECT ENGINEER	
BRIAN VITELLE	C73039	DESCRIPTION		214-1707 CCS27 COORDINATE	
PRINT DCE NAME	RCE#	BY		1854-6267 CCS88 COORDINATE	
		APPROVED		DATE	
		DATE		FILMED	
CONTRACTOR		DATE STARTED		41025-6-D	
INSPECTOR		DATE COMPLETED			

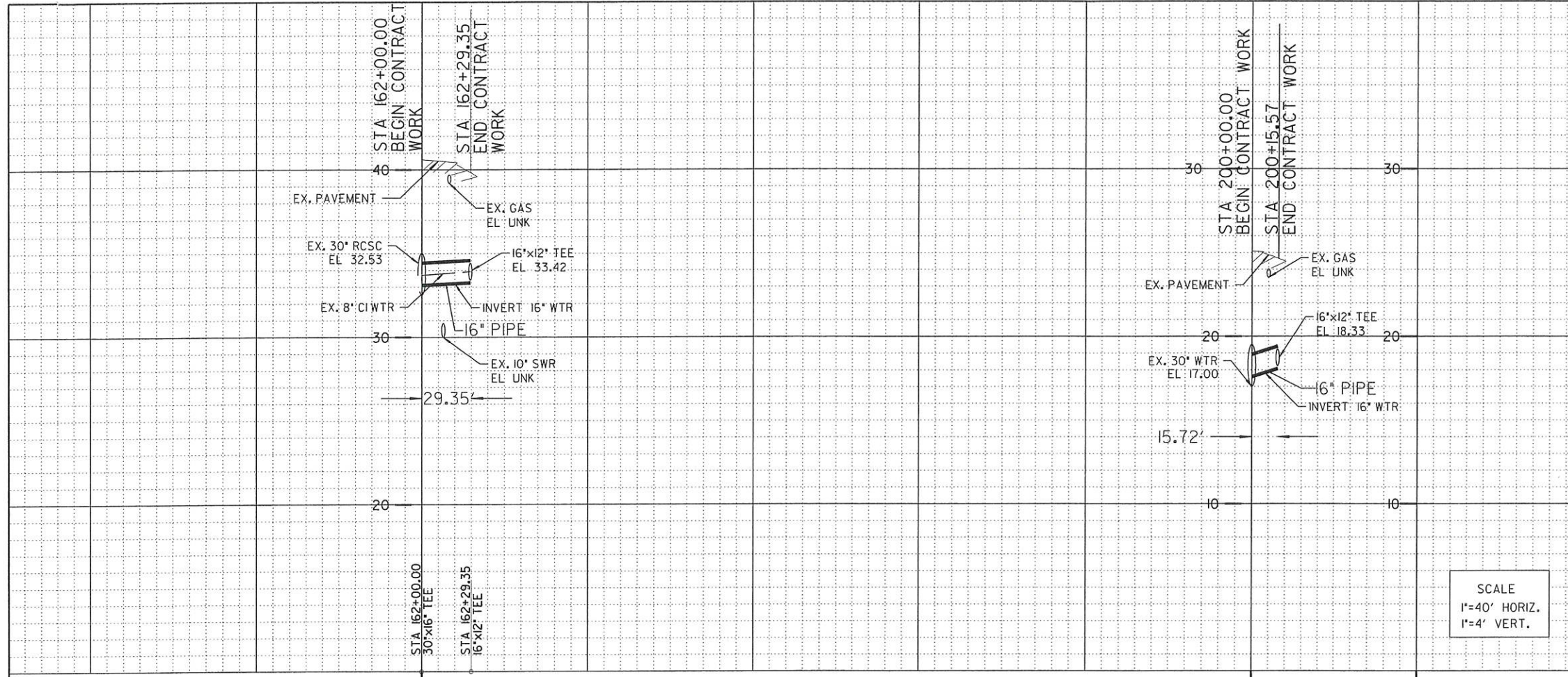
PERMIT NUMBER U-18-NLI-0953  
 CO\_SD RTE\_B\_PM\_0.81-1.93  
 AS-BUILT PLAN FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND FEATURES  
 STATE REPRESENTATIVE DATE \_\_\_\_\_  
 PLAN SET \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_

**RECEIVED**  
 APR 05 2019  
**CALTRANS-PERMI**

PT#	POINT ELEMENT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)
20	POB 162+00.00	1857264.72	6275593.34	
21	POE 162+29.21	1857235.51	6275592.78	S 1° 05' 35.97" W
22	POB 200+00.00	1857706.93	6279156.85	
23	POE 200+15.62	1857691.73	6279160.47	S 13° 24' 31.46" E

CONSTRUCTION NOTES:  
 1. WHERE A 1' MIN VERTICAL CLEARANCE BETWEEN PROPOSED AND EXISTING UTILITIES CANNOT BE ACCOMPLISHED, USE A 6" MINIMUM SAND CUSHION WITH A 1" NEOPRENE PAD.  
 2. AREA 2: EXISTING 3" STL GAS MAIN HAS POTENTIAL CONFLICT @ STA 161+97, 1' S/O CALTRANS ROW, WITH PROPOSED THRUST BLOCK FOR NEW 16" PVC WATER PIPE. APPROXIMATELY 3' OF SEPARATION.  
 3. AREA 2: EXISTING 12" HP GAS PIPE TO BE PROTECTED IN PLACE @ STA 162+21 FROM PROPOSED 16" PVC WATER PIPE. STANDBY REQUIRED. NO MECHANICAL DIGGING.  
 4. AREA 4: EXISTING 12" HP GAS PIPE TO BE PROTECTED IN PLACE @ STA 200+08 FROM PROPOSED 16" WATER PIPE. STANDBY REQUIRED. NO MECHANICAL DIGGING.  
 5. CONTRACTOR TO PROTECT-IN-PLACE ALL VERIZON CONDUIT ON SOUTH SIDE OF HOTEL CIRCLE SOUTH.

APPROVED ENCROACHMENT PERMIT PLAN  
 1118 NLI 0953  
 Permit No.: \_\_\_\_\_  
**APR 05 2019**  
 Date: \_\_\_\_\_



SCALE  
 1"=40' HORIZ.  
 1"=4' VERT.

CONTRACTOR'S NOTE:  
 CONTRACTOR TO PROVIDE HORIZONTAL AND VERTICAL FITTINGS AS-NEEDED TO CONNECT TO EXISTING 8" AND 30" WTR. FITTINGS SHALL BE INCLUDED IN PIPELINE COST.

CITY FORCES NOTE:  
 CITY FORCES TO EXERCISE VALVES AND ISOLATE MAIN AHEAD OF CONTRACTOR. RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.

22 BY CONTRACTOR FURNISH & INSTALL CUT-IN TEE  
 STA 162+00  
 1- 30"x16" STL TEE (F,F,MJ)  
 2 - 30" BFV (F,F) RT,LT  
 1- 16" BFV AHD (MJ,F) AHD CLOSE AND BLIND FLANGE 16" BFV, AHD RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED AND OPEN 16" BFV AND REMOVE BLIND FLANGE, AHD. (DETAIL 5 SHEET 8)

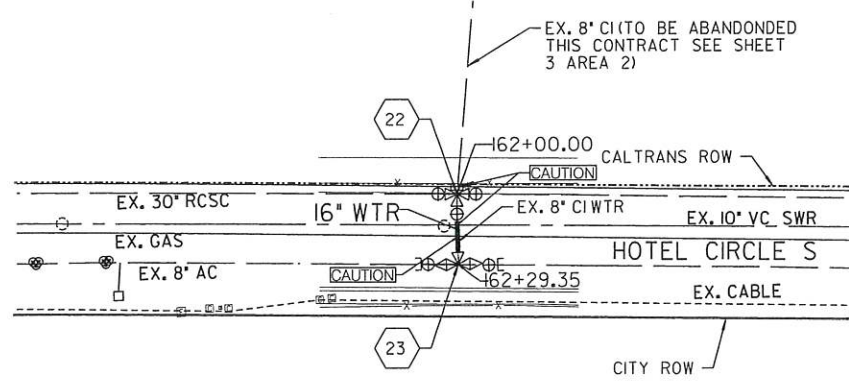
23 BY CITY FORCES AHD OF CONTRACTOR CUT AND PLUG  
 EX. 8" AC WTR, 13' RT,LT (OR AT NEAREST JOINT)  
 RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED BY CONTRACTOR FURNISH & INSTALL  
 STA 162+29.35  
 16"x12" TEE (MJ,F,F)  
 12"x8" RED. (F,F) LT,RT  
 2 - 8" RWGV (F,MJ) LT,RT CONNECTION SIM TO DETAIL 2 SHEET 9

24 BY CONTRACTOR FURNISH & INSTALL CUT-IN CROSS  
 STA 200+00  
 1- 30"x16" STL CROSS (MJ,MJ,F,F)  
 2 - 30" BFV (F,F) RT,LT  
 1- 16" BFV AHD (MJ,F)  
 CLOSE AND BLIND FLANGE 16" BFV, AHD RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED AND OPEN 16" BFV AND REMOVE BLIND FLANGE, AHD (DETAIL 5, SHEET 8; DETAIL 2, SHEET 9)

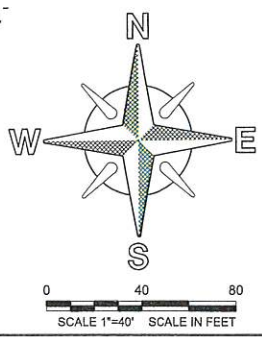
25 BY CITY FORCES AHD OF CONTRACTOR CUT AND PLUG  
 EX. 8" AC WTR, 13' RT,LT (OR AT NEAREST JOINT)  
 RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED BY CONTRACTOR FURNISH & INSTALL  
 STA 200+15.57  
 16"x12" TEE (MJ,F,F)  
 12"x8" RED. (F,F) LT,RT  
 2 - 8" RWGV (F,MJ) LT,RT SEE DETAIL 2 SHEET 9

RETIREMENTS:  
 8" CIWTR - 29 LF - 1960  
 8" AC WTR - 52 LF - 1960  
 16" AC WTR - 13 LF - 1960  
 SUMMARY:  
 16" PVC - 71LF  
 30" STL - 32 LF  
 8" PVC - 52 LF  
 REFERENCE:  
 WATER: 144II  
 SEWER: 5678  
 STORM DRAIN: II342-1-D, II342-2-D  
 FIELD BOOK: NONE

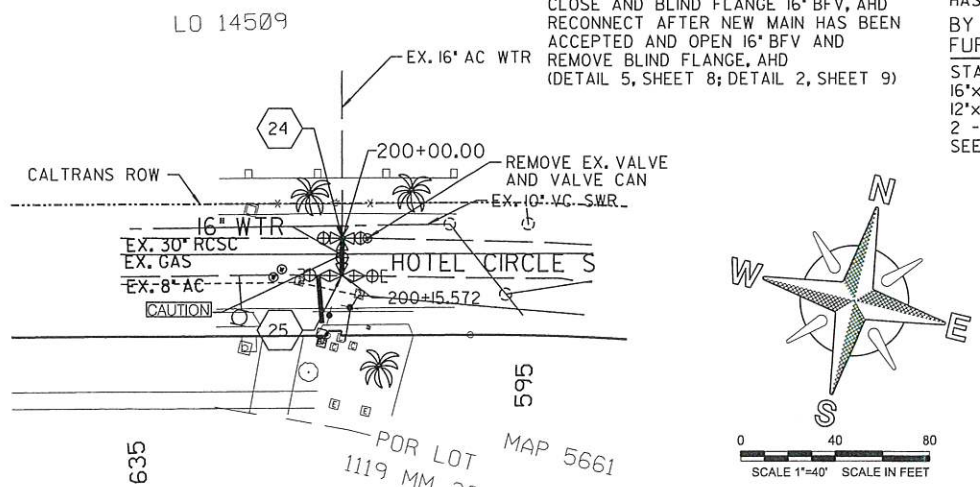
EASTBOUND I-8



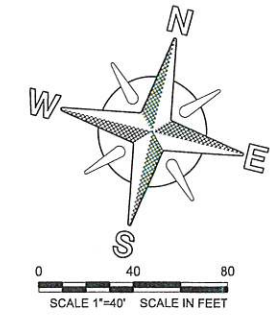
AREA 2: I-8 AND HOTEL CIRCLE S



EASTBOUND I-8



AREA 4: I-8 AND HOTEL CIRCLE S



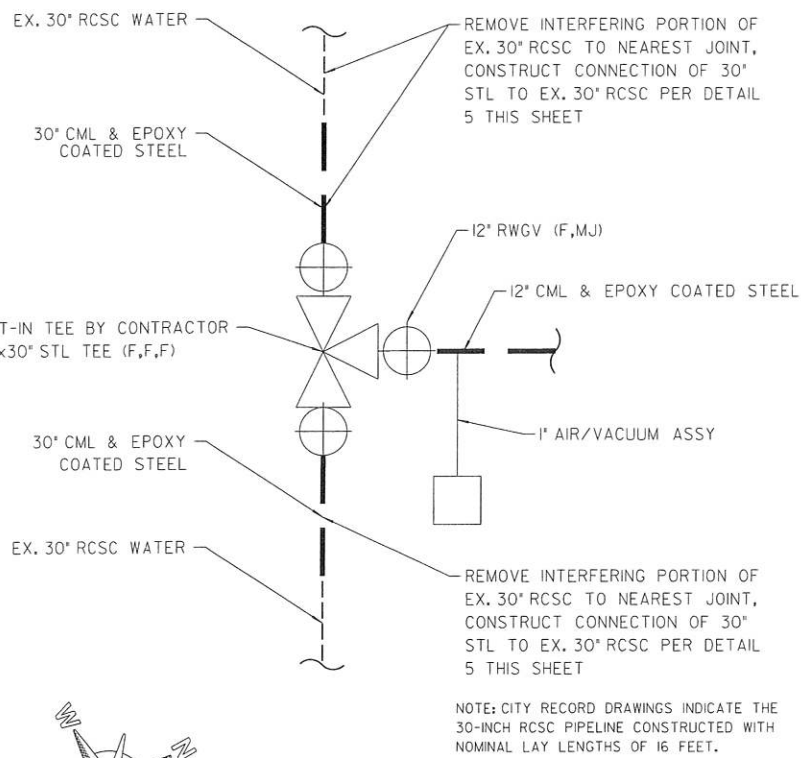
C-4

HOTEL CIRCLE CI AND AC ACCELERATED REPLACEMENT  
 HOTEL CIRCLE S  
 AREA 2 AND AREA 4

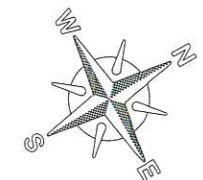
SPEC NO.		CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 7 OF 15 SHEETS		WBS B-18235
APPROVED FOR CITY ENGINEER BRIAN VITELLE PRINT DCE NAME	DATE C73039 RCE#	SUBMITTED BY GABRIEL TORRES PROJECT MANAGER		PROJECT ENGINEER ROY GANZON
DESCRIPTION	BY	APPROVED	DATE	FILED
CONTRACTOR INSPECTOR				DATE STARTED DATE COMPLETED
				214-1713 C6827 COORDINATE 1854-6273 C6883 COORDINATE 41025-7-D



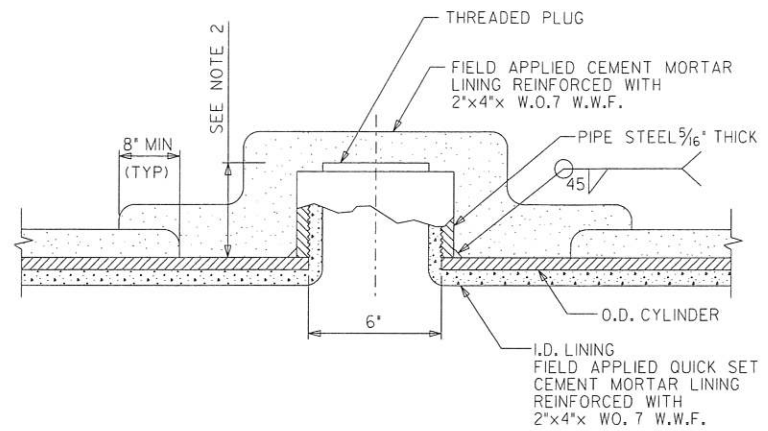
550 WEST C STREET, SUITE 1200, SAN DIEGO, CA 92101



1 NEW STEEL PIPE TO EXISTING RCSC  
NOT TO SCALE

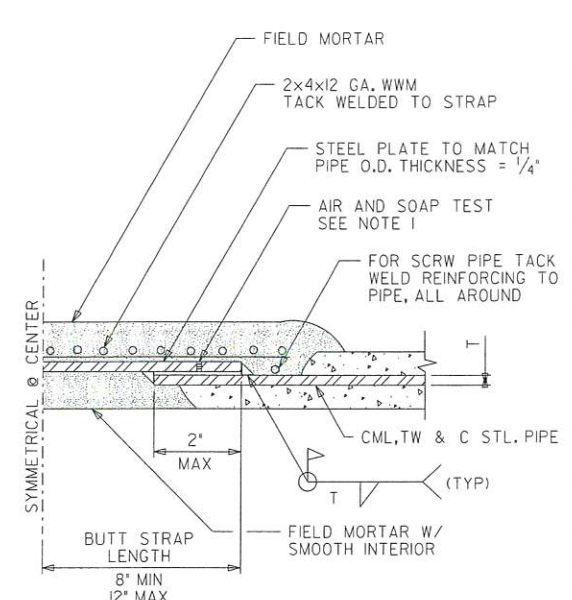


NOTE: CITY RECORD DRAWINGS INDICATE THE 30-INCH RCSC PIPELINE CONSTRUCTED WITH NOMINAL LAY LENGTHS OF 16 FEET.



- NOTES:
- REFER TO BUTT STRAP CLOSURE DETAIL 3, THIS SHEET FOR BUTT STRAP INSTALLATION.
  - LENGTH OF THE STUB SHOULD BE THE SHORTEST POSSIBLE. HAND HOLE MUST FIT CLEANLY INSIDE CASING AND ALLOW CLEARANCE FOR INSTALLATION.
  - FIELD WELDING SHALL BE PER AWWA C-206. ALL WELDS SHALL HAVE EQUAL LEG DIMENSIONS AND MINIMUM THROAT IS EQUAL TO 0.0707 x LEG DIMENSION.
  - PIPE MATERIAL SHALL BE PER AWWA C-200.
  - ALL UNCOATED SURFACES, INCLUDING BOLTS AND NUTS, SHALL BE MORTAR COATED AND LINED PER AWWA C-205 OR C-602, WHICHEVER IS APPLICABLE. FOR DIELECTRIC MORTAR COATED PIPE, APPLY TO THE EXTERIOR SURFACE OF THE BURIED HANDHOLE COATING PER AWWA C-217.
  - SIZE AND NUMBER OF HAND HOLES SHALL BE APPROVED BY THE CITY.

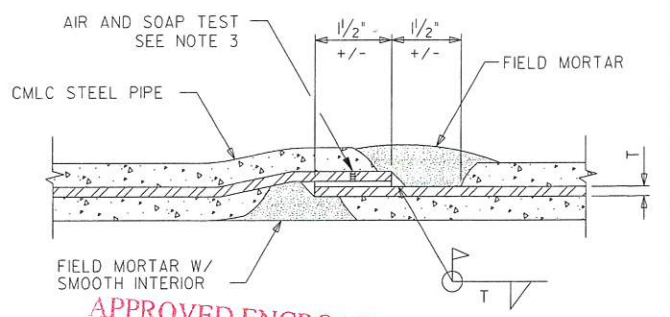
2 HAND HOLE CLOSURE  
NOT TO SCALE



- NOTE:
- BEFORE WELDING, DRILL AND TAP 4-1/4" DIA EQUALLY SPACED HOLES FOR AIR-SOAP TEST. CONTRACTOR TO PLUG HOLES BY WELDING AFTER SUCCESSFUL COMPLETION OF TESTS.
  - FOR HAND HOLE CLOSURE, SEE DETAIL 2

3 BUTT STRAP CLOSURE  
NOT TO SCALE

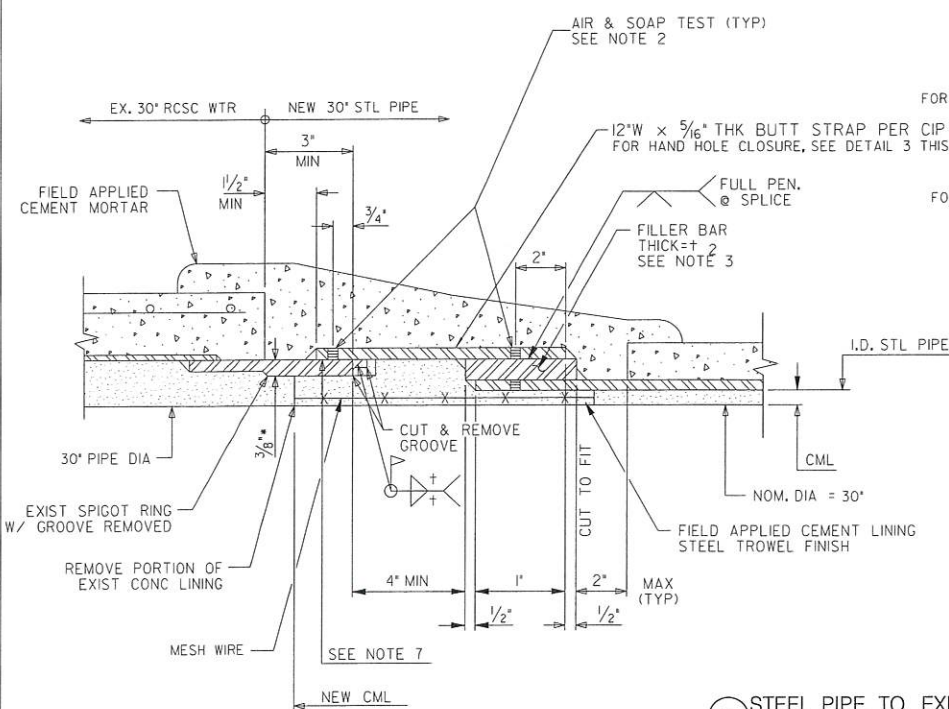
PERMIT NUMBER 11-18-N111-0953  
CO. SD. RTE. B. PM. 0.81-L-93  
AS-BUILT PLAN FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES  
STATE REPRESENTATIVE DATE \_\_\_\_\_  
PLAN SET \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_



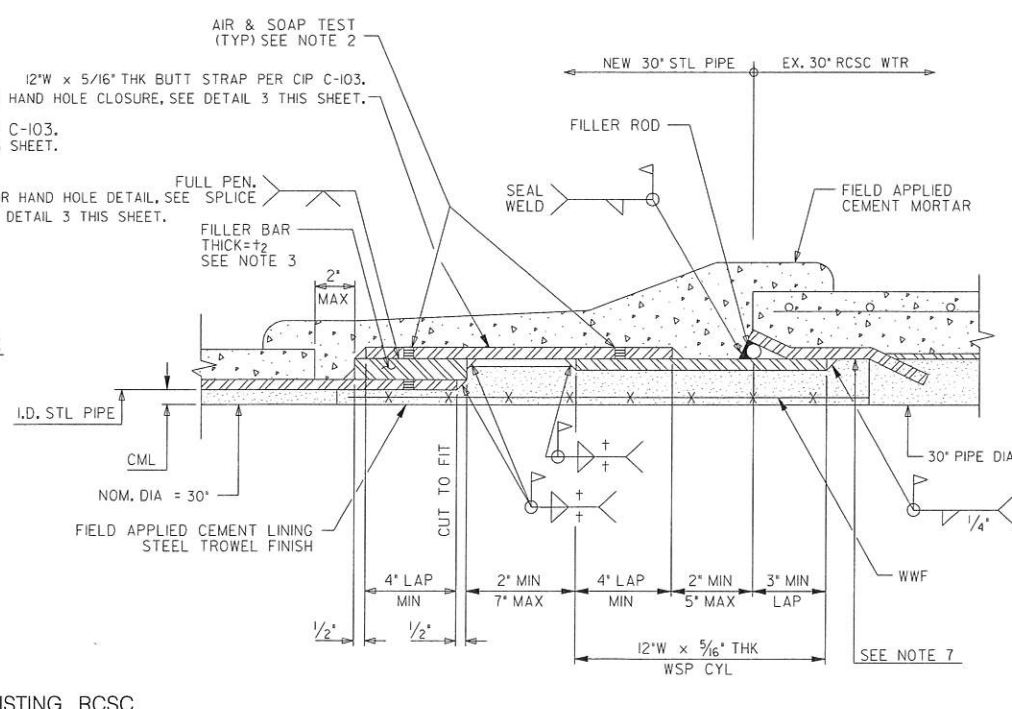
- APPROVED ENCROACHMENT PERMIT PLAN  
Permit No.: 1118 N111 0953  
APR 05 2019
- NOTES:
- FOR PIPE 30" AND LARGER, PROVIDE WELD INSIDE PIPE.
  - FOR PIPE SMALLER THAN 30" DO NOT PROVIDE WELD INSIDE PIPE.
  - BEFORE WELDING, DRILL AND TAP 4-1/4" DIA EQUALLY SPACED HOLES FOR AIR-SOAP TEST. CONTRACTOR TO PLUG HOLES BY WELDING AFTER SUCCESSFUL COMPLETION OF TESTS.
  - FOR HAND HOLE CLOSURE, SEE DETAIL 2

4 STEEL PIPE JOINT  
NOT TO SCALE

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5 STEEL PIPE TO EXISTING RCSC  
NOT TO SCALE



CONNECTION TO EXISTING RCSC BELL

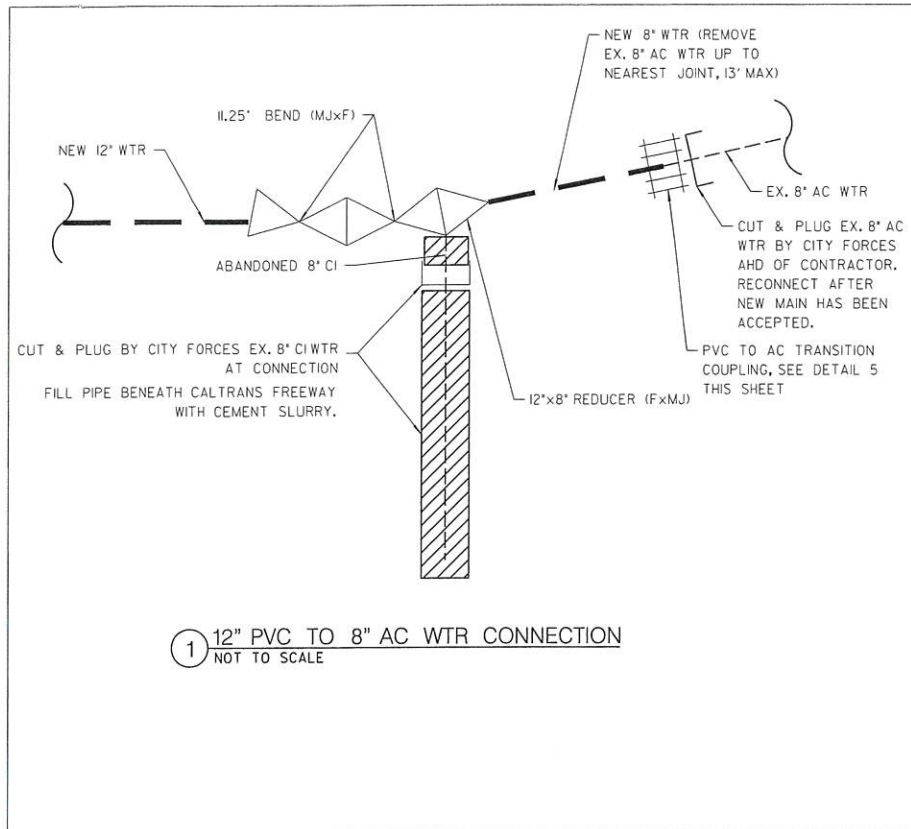
- CONNECTION NOTES:
- 12" LENGTH OF BUTT STRAP FOR FIELD CLOSING SECTION. BUTT STRAPS TO BE FURNISHED IN TWO PIECES AND SHIPPED LOOSE FOR FIELD JOINING.  $t = 5/16"$
  - BEFORE WELDING, DRILL AND TAP 4-1/4" DIA EQUALLY SPACED HOLES FOR AIR-SOAP TEST. CONTRACTOR TO PLUG HOLES BY WELDING AFTER SUCCESSFUL COMPLETION OF TESTS.
  - $t =$  INDICATED OFFSET OR NEW PIPE O.D. TO MATCH EXISTING PIPE JOINT. USE FILLER BARS TO FIELD FIT.
  - SURFACES TO BE WELDED SHALL BE CLEANED BY WIRE BRUSHING PRIOR TO WELDING.
  - CONTRACTOR TO REMOVE LINING, CUT OFF GROOVE, AND GRIND ENDS SMOOTH PRIOR TO WELDING.
  - BEVEL ENDS OF BACKING PLATE AT BUTT STRAP PRIOR TO WELDING OR BACK GOUGE AT CONTACT WITH ADJACENT CYLINDER PRIOR TO COMPLETING INSIDE FILLET WELD.
  - FIELD VERIFY EXISTING JOINT LOCATION, GEOMETRY, AND DIAMETER BEFORE FABRICATION.
  - WELD LONGITUDINAL WELDS BEFORE GIRTH WELDS.

CONNECTION TO EXISTING RCSC SPIGOT

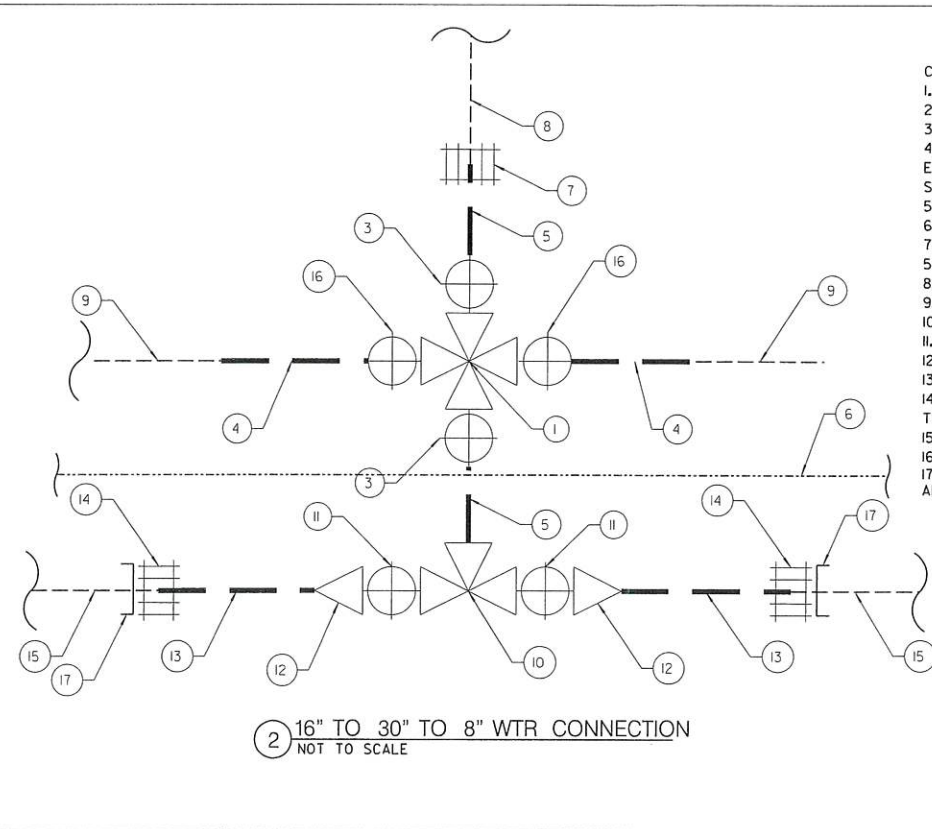


550 WEST C STREET, SUITE 1200, SAN DIEGO, CA 92101

SPEC NO.		CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 8 OF 15 SHEETS		WBS B-18235	
APPROVED:		DATE		SUBMITTED BY	
FOR CITY ENGINEER		DATE		GABRIEL TORRES	
BRIAN VITELLE		C73039		PROJECT MANAGER	
PRINT DC# NAME		RCE#		CHECKED BY	
ROY GANZON		PROJECT ENGINEER		SEE SHEETS	
DESCRIPTION		APPROVED		DATE	
BY		APPROVED		DATE	
FILMED		DATE		DATE	
CONTRACTOR		DATE STARTED		41025-8-D	
INSPECTOR		DATE COMPLETED			



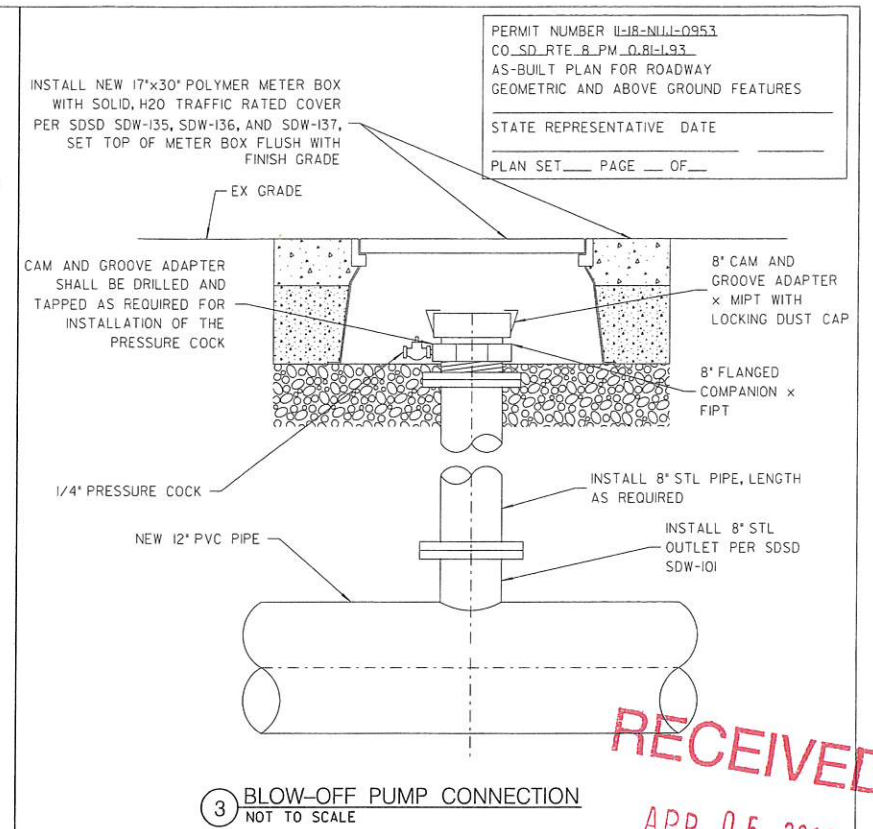
1 12" PVC TO 8" AC WTR CONNECTION  
NOT TO SCALE



2 16" TO 30" TO 8" WTR CONNECTION  
NOT TO SCALE

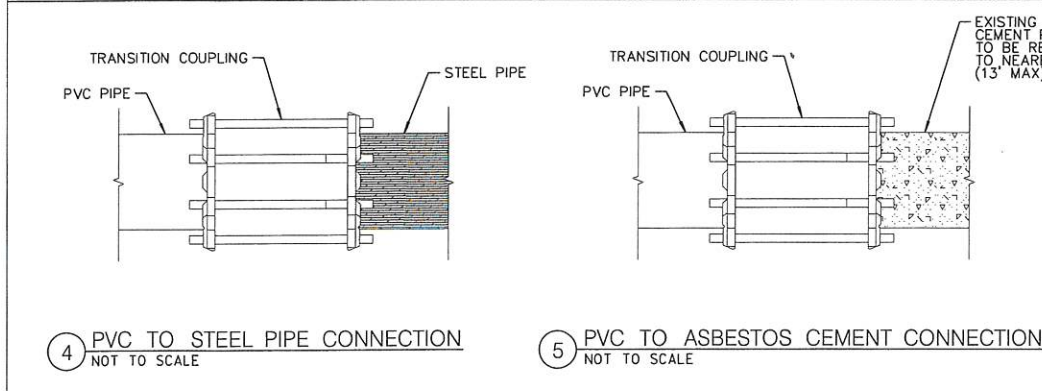
- CONSTRUCTION NOTES:
- 30"x16" STL CROSS (F,F,MJ,MJ)
  - NOT USED
  - 16" BFV (F x M J)
  - REMOVE INTERFERING PORTION OF 30" RCSC AND EXISTING TEE TO NEAREST JOINT. CONSTRUCT 30" STEEL WATER AND CONNECT PER DETAIL 5 SHEET 8
  - 16" WTR (PE x PE)
  - EX GAS MAIN
  - 16" PVC TO AC TRANSITION COUPLING (SEE DETAIL 5 THIS SHEET)
  - EX. 16" AC WTR
  - EX. 30" RCSC WTR
  - 16"x12" DI TEE (M J x F x F)
  - 12" RWGV (F x F)
  - 12"x8" RED. (F x M J)
  - 8" WTR (PE x PE)
  - 8" PVC TO AC TRANS. COUPLING (SEE DETAIL 5 THIS SHEET)
  - EX. 8" AC WTR
  - 30" BFV
  - CUT AND PLUG EX. MAIN, RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED

NOTE:  
CITY RECORD DRAWINGS INDICATE THE 30-INCH RCSC PIPELINE CONSTRUCTED WITH NOMINAL LAY LENGTHS OF 16 FEET.

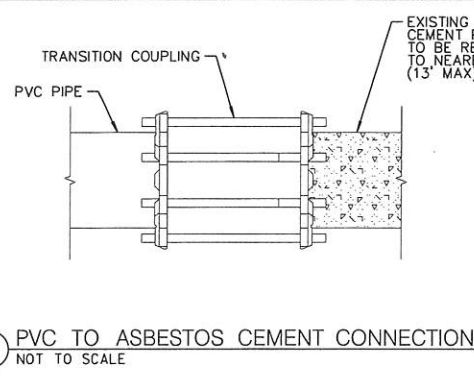


3 BLOW-OFF PUMP CONNECTION  
NOT TO SCALE

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APR 05 2019

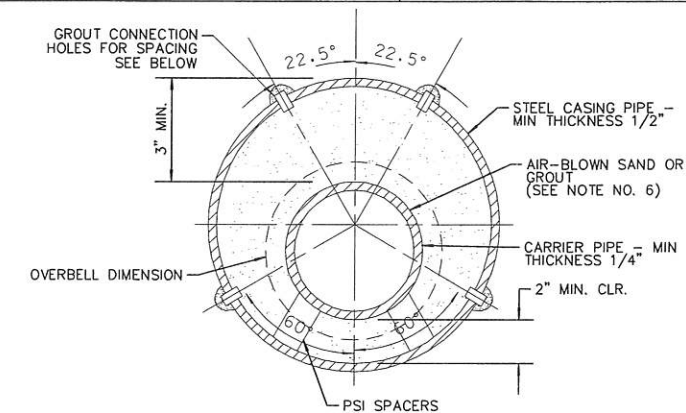


4 PVC TO STEEL PIPE CONNECTION  
NOT TO SCALE



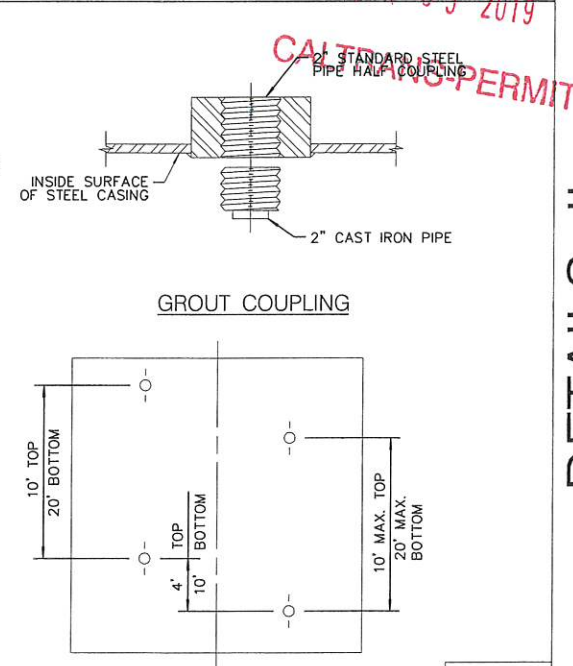
5 PVC TO ASBESTOS CEMENT CONNECTION  
NOT TO SCALE

- PIPE CONNECTION:
- ALL PIPE CONNECTIONS SHALL BE MADE WITH A RESTRAINED COUPLING, EXCEPT AT LOCATIONS WITH MATERIAL CHANGE.
  - WHERE PIPE MATERIAL TRANSITIONS OCCUR, A ROMAC-COUPLING SERIES 801 OR APPROVED TRANSITION COUPLING EQUIVALENT SHALL BE USED.
  - CONTRACTOR MUST ADHERE TO ALL MANUFACTURER INSTALLATION REQUIREMENTS.
  - ALL NEWLY FURNISHED AND INSTALLED PIPE SHALL BE PVC C900 OR AWWA C-200 STEEL PER CITY OF SAN DIEGO APPROVED MATERIALS LIST.
  - THE ORIENTATION OF THE PIPE CONNECTION MAY DIFFER FROM THE DETAILS BELOW. CONTRACTOR IS TO FOLLOW THE SAME METHOD OF INSTALLATION FOR THE PIPE TRANSITIONS.
  - WHEN REMOVING AC PIPE, CONTRACTOR SHALL FOLLOW ALL MITIGATION METHODS PER APPLICABLE REGULATIONS.
  - ALL BURIED TRANSITION CONNECTIONS SHALL BE WAX TAPED PER AWWA C217.
  - EXTEND WAX TAPE COATING FOR BURIED TRANSITION COUPLINGS A MINIMUM OF 1 FOOT INTO THE CASING PIPE AT EITHER END OF THE CASING PIPE.
  - EPOXY COATED STEEL PIPE SHALL NOT HAVE ANY DIRECT CONTACT WITH SOIL AT EITHER END OF CASING.

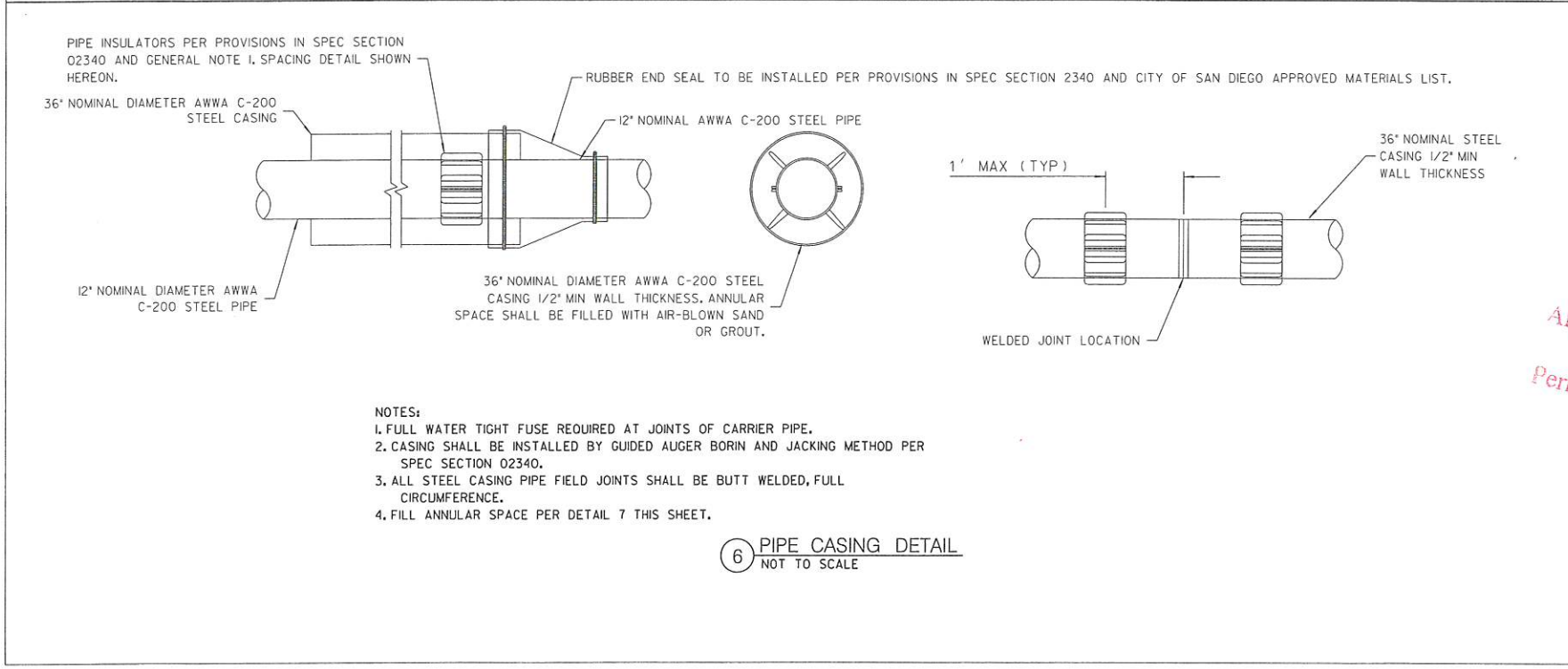


7 STEEL CASING DETAIL  
NOT TO SCALE

- NOTES:
- ALL STEEL CASING PIPE FIELD JOINTS SHALL BE WELDED FULL CIRCUMFERENCE.
  - PERIFRY OF CASING TO BE PRESSURE GROUTED.
  - CARRIER PIPE SHALL BE AIR TESTED PRIOR TO FILLING CASING WITH AIR-BLOWN SAND OR GROUT.
  - UPSTREAM AND DOWN STREAM ELEVATIONS TO BE VERIFIED PRIOR TO FILLING CASING.
  - PSI SPACERS MODEL SHALL BE PROVIDED PER MANUFACTURER'S RECOMMENDATIONS AND PER SPEC SECTION 02340.
  - UNLESS OTHERWISE NOTED ON PLANS, THE ANNULAR SPACE WITHIN THE CASING SHALL BE FILLED WITH AIR-BLOWN SAND OR GROUT PER SPEC SECTION 02340.



CALTRANS PERMIT



6 PIPE CASING DETAIL  
NOT TO SCALE

- NOTES:
- FULL WATER TIGHT FUSE REQUIRED AT JOINTS OF CARRIER PIPE.
  - CASING SHALL BE INSTALLED BY GUIDED AUGER BORIN AND JACKING METHOD PER SPEC SECTION 02340.
  - ALL STEEL CASING PIPE FIELD JOINTS SHALL BE BUTT WELDED, FULL CIRCUMFERENCE.
  - FILL ANNULAR SPACE PER DETAIL 7 THIS SHEET.

APPROVED ENCROACHMENT PERMIT PLAN  
Permit No. 11182 MJS 0953  
APR 05 2019  
KLEINFELDER  
Bright people, Right Solutions.

550 WEST C STREET, SUITE 1200, SAN DIEGO, CA 92101

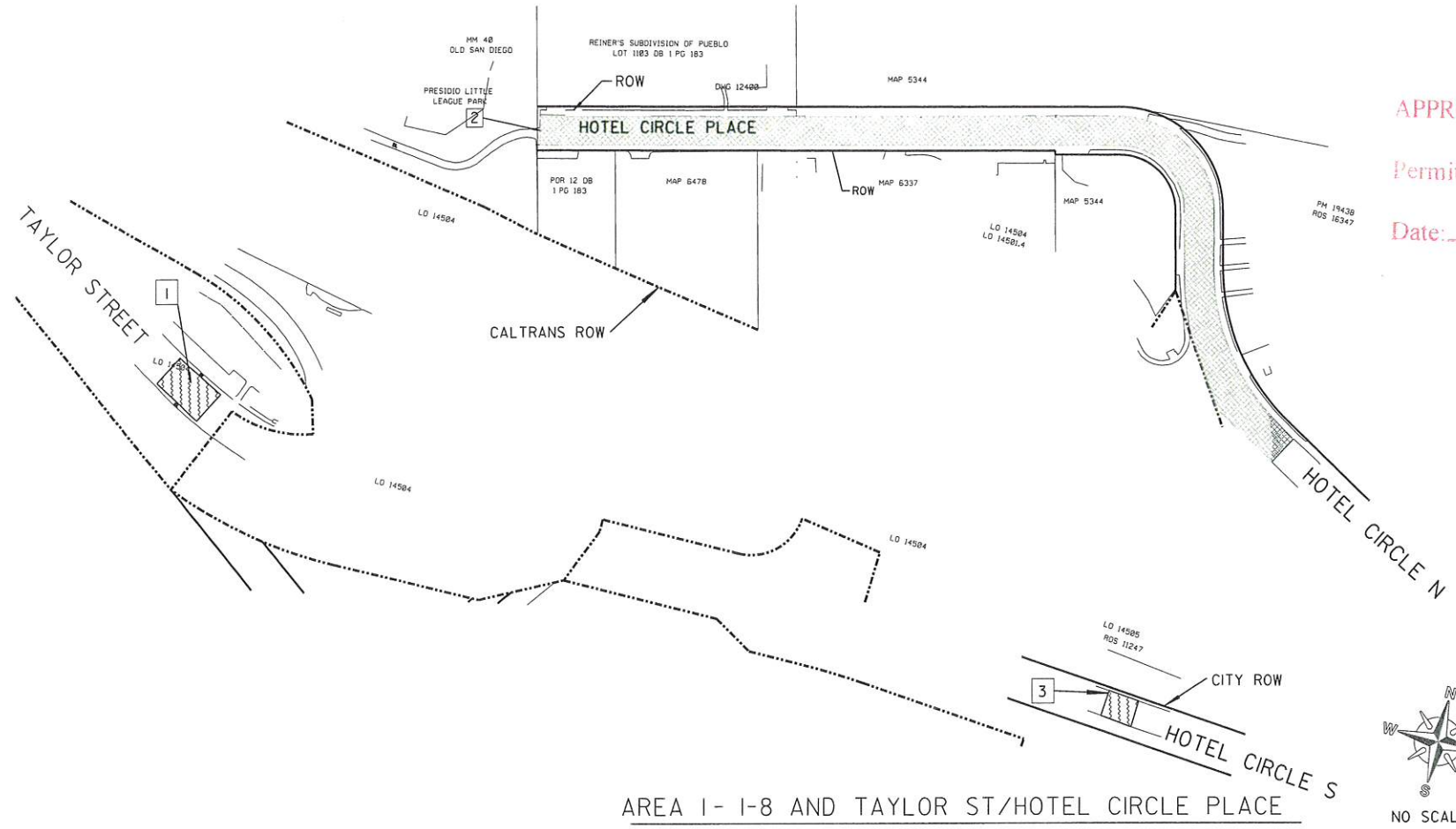
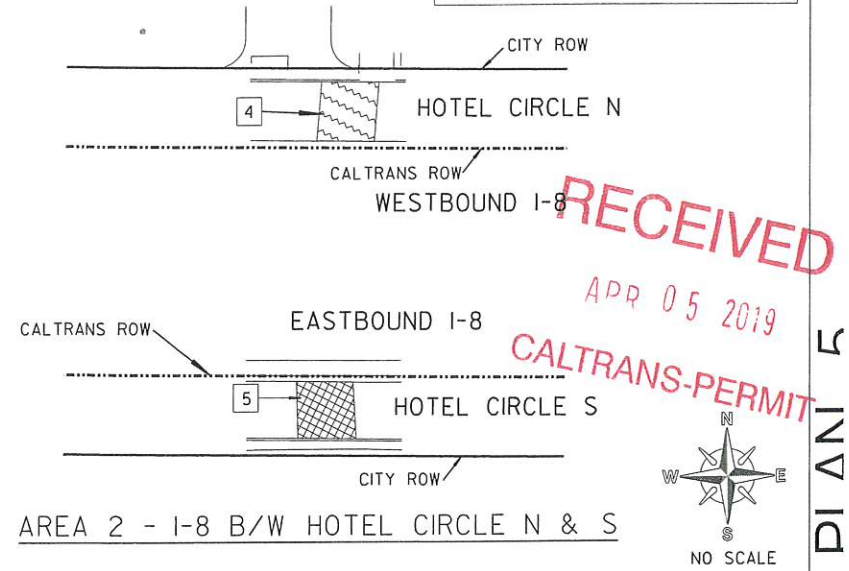
SPEC NO.		CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 9 OF 15 SHEETS		WBS B-18235
APPROVED FOR CITY ENGINEER BRIAN VITELLE PRINT DCE NAME	DATE C73039 RCE#	SUBMITTED BY GABRIEL TORRES PROJECT MANAGER		CHECKED BY ROY GANZON PROJECT ENGINEER
DESCRIPTION	BY	APPROVED	DATE	FILMED
CONTRACTOR		DATE STARTED		DATE COMPLETED
INSPECTOR		41025-9-D		

DETAIL C 11



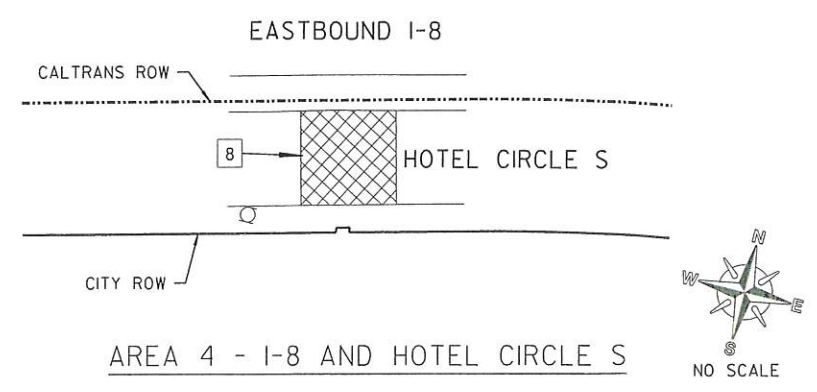
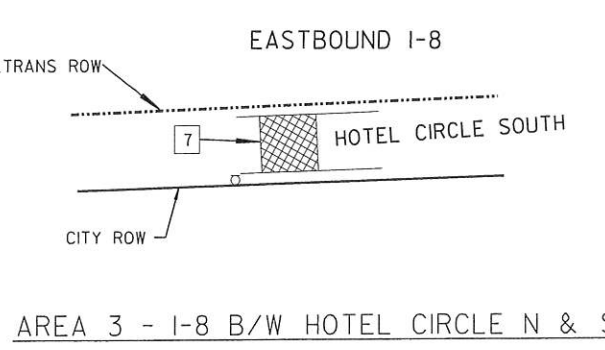
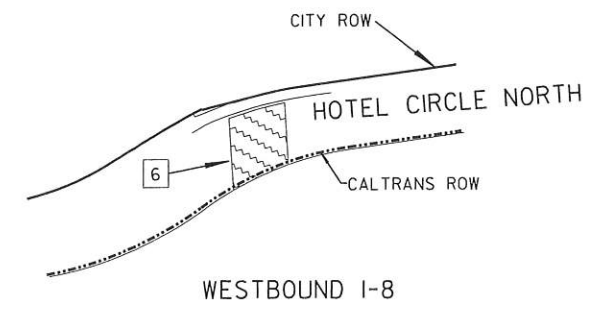
PERMIT NUMBER I-18-NLLI-0953  
 CO\_SD\_RTE\_B\_PM\_0.B1-1.93  
 AS-BUILT PLAN FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND FEATURES  
 STATE REPRESENTATIVE DATE \_\_\_\_\_  
 PLAN SET \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_

APPROVED ENCROACHMENT PERMIT PLAN  
 Permit No.: 1118N4J0953  
 Date: APR 05 2019



PAVING SCHEDULE NOTES

NO.	LOCATION	STREET SEGMENT ID	OCI	RESTORATION REQUIRED	LENGTH (FT)	WIDTH (FT)	APPROX. AREA (SF)
1	TAYLOR ST STA 0+46 TO STA 1+00	SS-026219	63.662	FULL WIDTH COLD MILLING AND AC OVERLAY (2 INCH)	54	40	2163
2	HOTEL CIRCLE PLACE HOTEL CIRCLE N TO END	SS-013794	71.942	FULL WIDTH COLD MILLING AND AC OVERLAY (3 INCH)	1179.01	40	47814
3	HOTEL CIRCLE SOUTH STA 153+93.41 TO STA 154+26.91	SS-013797	58.7	SLURRY SEAL TYPE I OVER II	33.5	40	1342
4	HOTEL CIRCLE NORTH STA 159+59.0 TO STA 160+00	SS-013792	94.676	SLURRY SEAL TYPE II OVER III	41	40	1647
5	HOTEL CIRCLE SOUTH STA 162+00 TO STA 170+00	SS-013797	58.7	FULL WIDTH COLD MILLING AND AC OVERLAY (2 INCH)	36	40	1585
6	HOTEL CIRCLE NORTH STA 169+55 TO STA 170+00	SS-013792	94.676	FULL WIDTH COLD MILLING AND AC OVERLAY (3 INCH)	45	40	1850
7	HOTEL CIRCLE SOUTH STA 173+13.70 TO STA 173+153.00	SS-013796	62.942	SLURRY SEAL TYPE I OVER II	39.3	40	1571
8	HOTEL CIRCLE SOUTH STA 200+00 TO STA 200+39	SS-013796	62.942	SLURRY SEAL TYPE II OVER III	39	40	1573
TOTAL AREA OF SLURRY SEAL TYPE II OVER TYPE III							51,311 SF
TOTAL AREA OF FULL WIDTH COLD MILLING AND AC OVERLAY (2 INCH)							8,234 SF



LEGEND

- [Hatched Box] APPROXIMATE LOCATION OF 2 STEP SLURRY SEAL (TYPE II OVER TYPE III)
- [Cross-hatched Box] APPROXIMATE LIMITS OF FULL WIDTH COLD MILLING AND AC OVERLAY (3 INCH)
- [X] LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)

HOTEL CIRCLE CI AND AC ACCELERATED REPLACEMENT STREET RESURFACING PLAN

C-32

CITY OF SAN DIEGO, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT  
 SHEET 11 OF 15 SHEETS

WBS: B-18235

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 FOR CITY ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 BRIAN VITELLE CT3039  
 PRINT DCE NAME RCE#

DESIGNED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PROJECT ENGINEER: \_\_\_\_\_  
 PROJECT MANAGER: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_ DATE STARTED: \_\_\_\_\_  
 INSPECTOR: \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_

41025-11-D

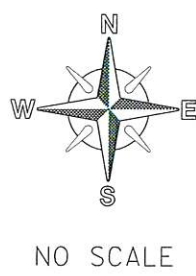
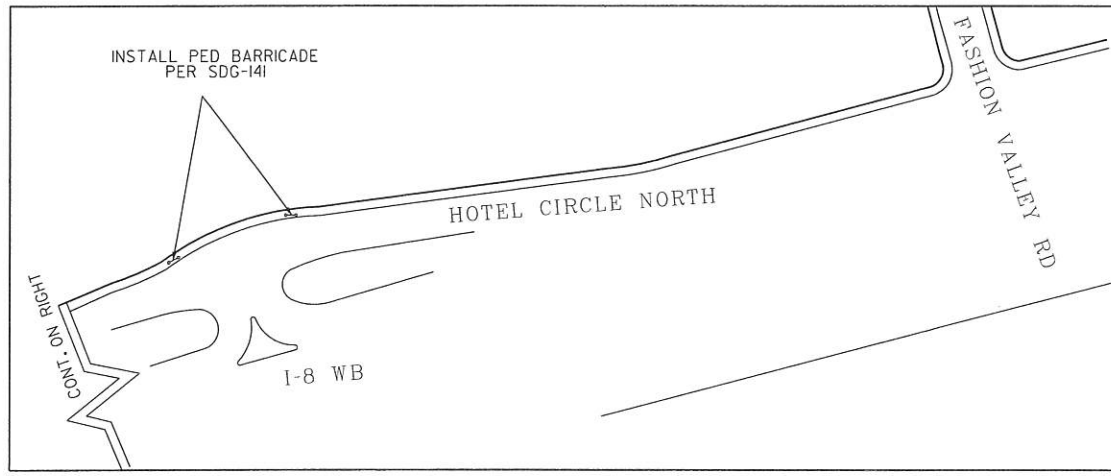
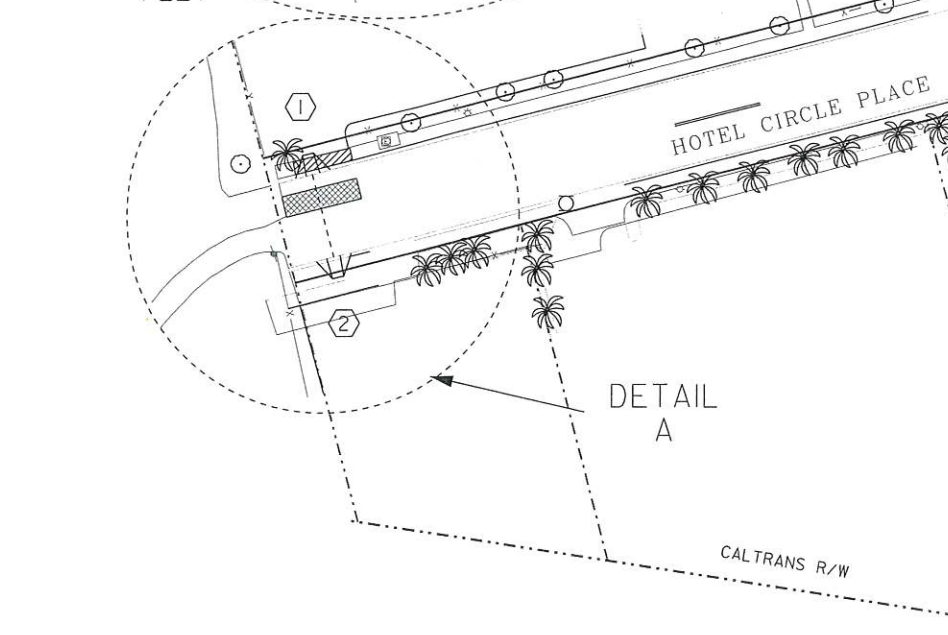
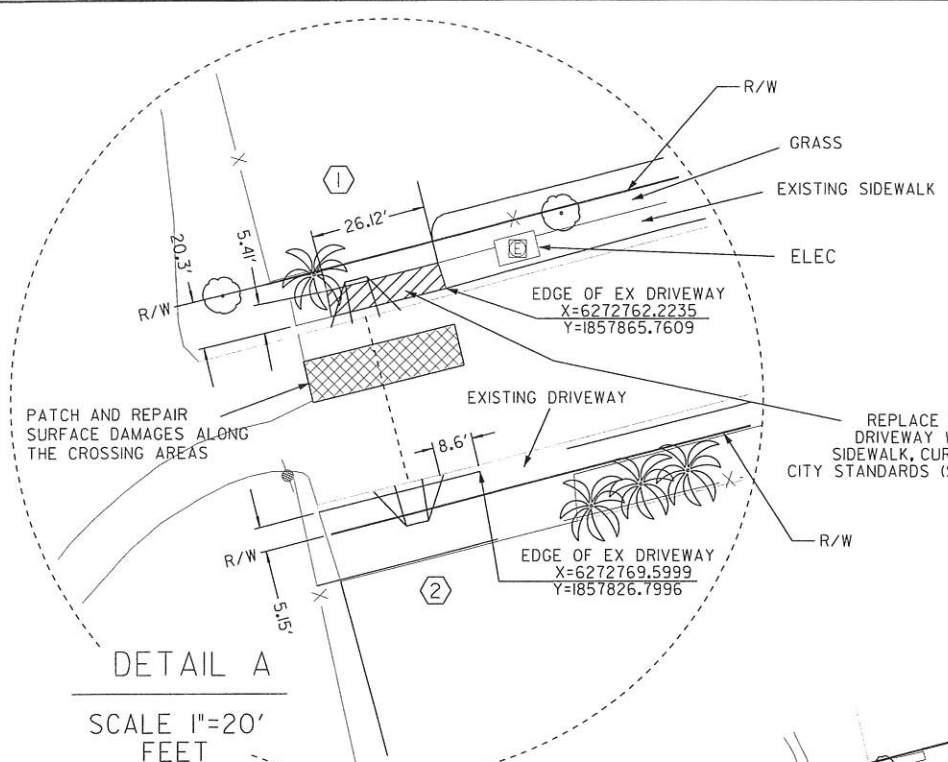


550 WEST C STREET, SUITE 1200, SAN DIEGO, CA 92101

**GENERAL CURB RAMP NOTES:**

1. THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST.
2. CONTRACTOR MAY USE NON-STAINLESS MATERIAL PER CITY'S AML IF THE DWT HAS TO BE TRIMMED TO CONFORM TO THE CURB RAMP CONFIGURATION.
3. THE DESIGN OF THE CURB RAMP SHALL NOT AFFECT THE DRAINAGE PATTERN ON THE STREET.
4. CONTRACTOR SHALL REPLACE LIFTED, DAMAGED OR MISSING SIDEWALK PANELS WITHIN THE ENTIRE CURB RETURN AND ALONG THE IMMEDIATE SIDEWALK AREAS LEADING TO THE CURB RETURN.
5. CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OF ANY OTHER DAMAGED AND LIFTED SIDEWALK PANELS THAT ARE OUTSIDE THE SCOPE OF WORK BUT WITHIN THE PROJECT AREA AND LEADING TO THE CORNERS THAT WILL BE IMPROVED BY THE PROJECT.
6. COUNTER SLOPES (CURB RAMP SLOPE PLUS STREET SLOPE) WHEN ADDED CANNOT EXCEED 13% WITH THE EXCEPTION OF A TYPE C2 AND C1, ADJUST THE SLOPE OF THE MAIN RAMP AND/OR STREET IF THE COUNTER SLOPE EXCEEDS 5.0%.
7. PROTECT AND KEEP ALL HISTORIC STAMPS WITHIN CORNER SIDEWALKS.
8. CONTRACTOR TO USE THE SAME EXISTING SIDEWALK CONCRETE COLOR ON THE SIDEWALK PANELS AND CURB RAMP, MATCH APPROVED COLOR PER COMMUNITY PLAN.

CURB RAMP NOTES TABLE							COMMENTS / MODIFICATIONS
LOCATION NO	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES	CONSTRAINTS	
1	B	X			X		<ul style="list-style-type: none"> <li>• PROTECT UTILITY BOX.</li> <li>• RELOCATE THE LIMIT LINE.</li> <li>• RELOCATE THE "FREEWAY" DIRECTIONAL SIGN IF NECESSARY.</li> <li>• PROVIDE APPROPRIATE RETAINING CURBS BEHIND THE ENTIRE CURB RAMP. THE HEIGHT SHALL BE 2' HIGHER THAN THE ADJACENT GRADE.</li> </ul>
2	CI	X			X		
3	A	X			X		
4	B	X			X		<ul style="list-style-type: none"> <li>• RELOCATE OR ADJUST EXISTING UTILITY PULLBOX AND PROTECT (OR RELOCATE) UTILITY PEDESTAL.</li> <li>• RELOCATE SIGN IF NECESSARY.</li> <li>• PROVIDE APPROPRIATE RETAINING CURBS BEHIND THE ENTIRE CURB RAMP. THE HEIGHT SHALL BE 2' HIGHER THAN THE ADJACENT GRADE.</li> </ul>



INSTALL A POLE SIGN TO NOTIFY PEDESTRIANS THAT THERE IS NO ACCESS BEYOND THAT POINT. REFERTO POLE SIGN R9-3A FROM THE CALTRANS STANDARD

INSTALL PED BARRICADE PER SDG-141

NOTE:  
 CONTRACTOR TO NOTIFY CM & FS SURVEY SECTION 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.

APPROVED ENCROACHMENT PERMIT  
 Permit No.: 1118 NCT 083  
 Date: APR 05 2019

EDGE OF EX DRIVEWAY  
 X=6273659.3605  
 Y=1857785.7223

EXISTING DRIVEWAY  
 INSTALL PED BARRICADE PER SDG-141

LEGEND	
(8) CURB RAMP NO's	T EX TREE
EX UTILITY POLE	EX STREET SIGN
EX FIRE HYDRANT	EX CURB RAMP
--- PATH OF TRAVEL	PROPOSED CURB RAMP LOCATION
PROPOSED CURB RAMP PER STANDARD DRAWINGS:	
DETECTABLE WARNING TILES	SDG-130
GENERAL CURB RAMP NOTES	SDG-131
GENERAL CURB RAMP NOTES & SUPPLEMENTAL DETAILS	SDG-132
CURB RAMP A & B	SDG-133
DUAL CURB RAMP	SDG-134
CURB RAMP - TYPE C1 & C2	SDG-135
CURB RAMP - TYPE C1 & C2 & MORE DETAILS	SDG-136
CURB RAMP - TYPE D	SDG-137
GENERAL CURB RAMP	SDG-138
ISLAND AND PASSAGEWAY DETAILS	SDG-139
CURB RAMP BARRICADE	SDG-140
EX STAMP/IMPRESSION PLACEMENT	SDG-115

<b>HOTEL CIRCLE C1 AND AC ACCELERATED REPLACEMENT</b> CURB RAMP LOCATION		CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 15 OF 15 SHEETS	WATER WBS B-18235 SEWER WBS 0-00000
		FOR CITY ENGINEER BRIAN VITELLE	GABRIEL TORRES PROJECT MANAGER
DESCRIPTION BY APPROVED DATE FILMED ORIGINAL RG/NF	PROJECT ENGINEER ROY GANZON	SEE SHEETS CCS27 COORDINATE	SEE SHEETS CCS83 COORDINATE
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED	41025-15-D

CURB RAMP LOCATION

C-12

# HOTEL CIRCLE CI & AC ACCELERATED REPLACEMENT TRAFFIC CONTROL PLANS

PERMIT NUMBER 118-NLL-0953  
 CO\_SD RTE 8 PM 0.81-L93  
 AS-BUILT PLAN FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND FEATURES  
 STATE REPRESENTATIVE DATE \_\_\_\_\_  
 PLAN SET \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_

**TRAFFIC CONTROL NOTES:**

- VALIDATION. THIS TRAFFIC CONTROL PLAN IS NOT VALID UNTIL WORK DATES ARE APPROVED. THE CONTRACTOR SHALL, PER SECTION 601-2 OF THE CITY SUPPLEMENT TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CONTACT THE PUBLIC WORKS TRAFFIC CONTROL SECTION AT (858) 495-4742 TO OBTAIN A PERMIT. THE CONTRACTOR MUST SUBMIT A COMPLETED TRAFFIC CONTROL PERMIT FORM A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, OR FIVE (5) WORKING DAYS WHEN THE WORK WILL AFFECT A TRAFFIC SIGNAL.
- STANDARDS. THIS TRAFFIC CONTROL PLAN SHALL CONFORM TO EACH OF THE FOLLOWING MANUALS:
 

DOCUMENT NO.	EDITION	DESCRIPTION
PWP1070116-01	2015	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREENBOOK")
PWP1070116-02	2015	CITY OF SAN DIEGO SUPPLEMENT TO THE "GREENBOOK" ("WHITEBOOK")
PWP1070116-03	2016	CITY OF SAN DIEGO STANDARD DRAWINGS
PWP1092816-07	2014	CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD)
- NOTIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AFFECTED AGENCIES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONSTRUCTION OR TRAFFIC CONTROL:
 

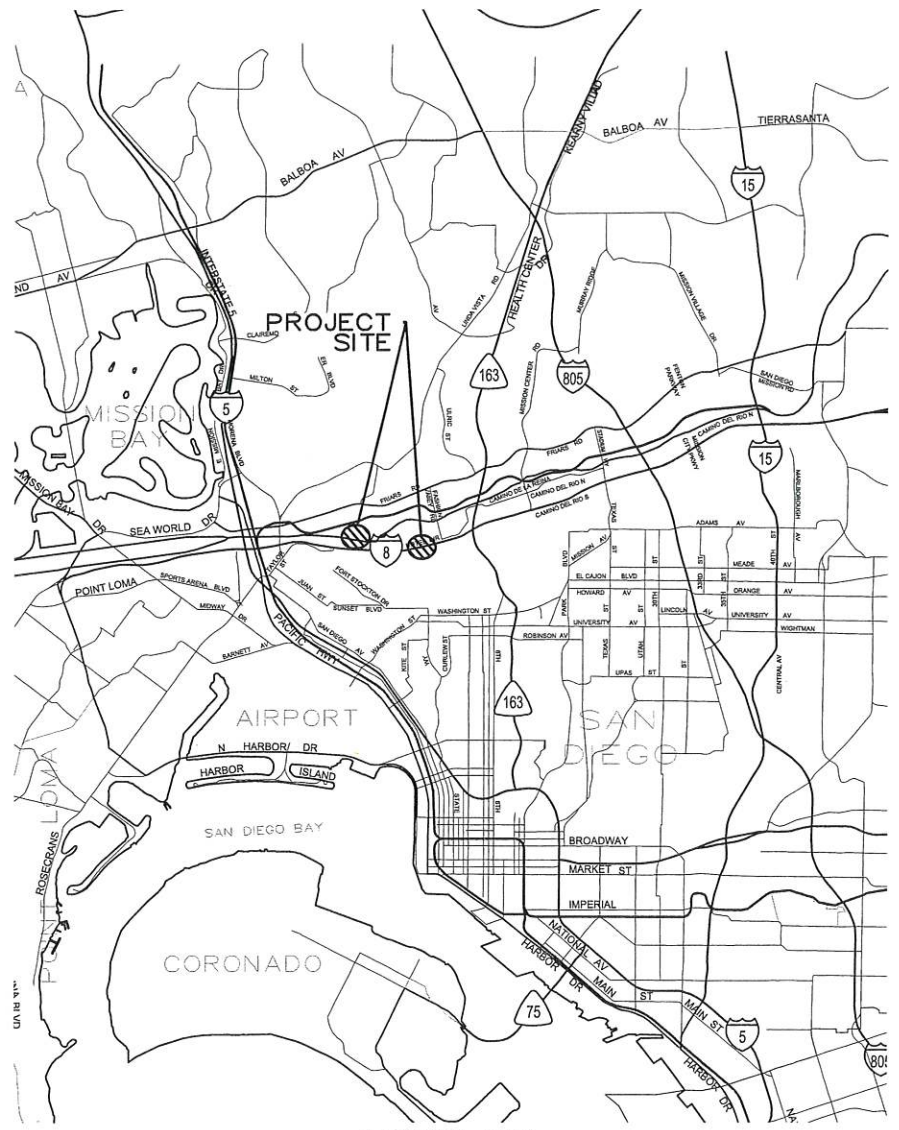
FIRE DEPARTMENT DISPATCH	(STREET OR ALLEY CLOSURE)	(858) 573-1300
POLICE DEPARTMENT DISPATCH	(STREET OR ALLEY CLOSURE)	(858) 531-2000
ENVIRONMENTAL SERVICES	(REFUSE COLLECTION)	(858) 492-5060
STREET DIVISION/ELECTRICAL	(TRAFFIC SIGNALS)	(619) 527-7500
METROPOLITAN TRANSIT SYSTEM	(TAKE ZONES)	(619) 595-7038 EXT 6451
METROPOLITAN TRANSIT SYSTEM	(BUS STOPS)	(619) 235-2644
METROPOLITAN TRANSIT SYSTEM	(TROLLEY LINES)	(619) 595-4960
UNDERGROUND SERVICE ALERT	(ANY EXCAVATION)	(800) 422 4133

THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF DRIVEWAYS. THE CONTRACTOR SHALL POST SIGNS NOTIFYING THE PUBLIC A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF STREETS.
- POSTING NO PARKING SIGNS. THE CONTRACTOR SHALL POST "TOW-AWAY/NO PARKING" SIGNS FOURTY-EIGHT (48) HOURS IN ADVANCE FOR TEMPORARY PARKING REMOVAL. SIGNS SHALL INDICATE SPECIFIC DAYS, DATES, AND TIMES OF RESTRICTIONS.
- EXCAVATIONS. EXCEPT AS OTHERWISE SHOWN ON THE PLANS, TRENCHES SHALL BE BACKFILLED OR TRENCH-PLATED AT THE END OF EACH WORK DAY. AN ASPHALT RAMP SHALL BE PLACED AROUND EACH TRENCH PLATE TO PREVENT THE PLATE FROM BEING DISLODGED. THE CONTRACTOR SHALL MONITOR TRENCH PLATES DURING NON-WORKING HOURS TO ENSURE THAT THEY DO NOT BECOME DISLODGED. UPON COMPLETION OF EXCAVATION BACKFILL, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY SURFACE FOR TRAFFIC. WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, THE CONTRACTOR SHALL MAINTAIN ALL TRAVEL LANES, BIKE LANES AND PEDESTRIAN WALKWAYS OPEN TO APPROPRIATE TRAFFIC, EXCEPT AS OTHERWISE SHOWN ON THE PLANS.
- RESTORATION OF TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL REPAIR OR REPLACE TRAFFIC CONTROL DEVICES (INCLUDING TRAFFIC SIGNS, STRIPING, PAVEMENT MARKERS, PAVEMENT MARKINGS, LEGENDS, CURB MARKINGS, LOOP DETECTORS, TRAFFIC SIGNAL EQUIPMENT, ETC.) DAMAGED OR REMOVED AS A RESULT OF OPERATIONS AND NOT DESIGNATED FOR REMOVAL. REPAIRS AND REPLACEMENTS SHALL BE EQUAL TO EXISTING IMPROVEMENTS.
- TEMPORARY TRAFFIC SIGNAL DETECTION. THE CONTRACTOR SHALL INSTALL CITY APPROVED TEMPORARY VIDEO OR RADAR DETECTION WHEN EXISTING TRAFFIC SIGNAL DETECTION SYSTEMS ARE DAMAGED, DISABLED OR BECOME INEFFECTIVE DUE TO CONSTRUCTION FOR A PERIOD OF FIVE (5) OR MORE DAYS. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY TRAFFIC SIGNAL DETECTION SYSTEM UPON COMPLETION OF CONSTRUCTION. ALL INSTALLATIONS AND REMOVALS ARE SUBJECT TO APPROVAL BY THE CITY ENGINEER.
- CHANGES IN WORK. THE CITY RESIDENT ENGINEER WILL OBSERVE THESE TRAFFIC CONTROL PLANS IN OPERATION AND RESERVES THE RIGHT TO MAKE CHANGES AS THE FIELD CONDITIONS WARRANT. ANY SUCH CHANGES SHALL BE DOCUMENTED AND SUPERSEDE THESE PLANS.
- FOR WORK NOT COVERED BY THESE TRAFFIC CONTROL PLANS, THE CONTRACTOR SHALL PREPARE TRAFFIC CONTROL WORKING DRAWINGS AND SUBMIT THEM TO THE CITY RESIDENT ENGINEER. THE CONTRACTOR SHALL ALLOW A MINIMUM OF TWENTY (20) WORKING DAYS FOR REVIEW OF THE WORKING DRAWINGS. UPON APPROVAL OF THE TRAFFIC CONTROL PLAN, THE PUBLIC WORKS TRAFFIC CONTROL SECTION WILL ISSUE A TRAFFIC CONTROL PLAN (TCP) PERMIT FOR THIS WORK.
- OPEN TRENCH. THE CONTRACTOR SHALL PLACE "OPEN TRENCH" SIGNS (C27(CA)) ON TYPE II OR TYPE III BARRICADES IN ADVANCE AND ADJACENT TO ANY WORK ARE THAT INCLUDES OPEN TRENCHES PER CALMUTCD SECTION 6F.103 (CA) GUIDELINES.

- LEGEND**
- WORK AREA
  - OPEN TRENCH AREA
  - TEMPORARY CONSTRUCTION SIGN (AS NOTED ON PLAN)
  - PORTABLE CONES OR DELINEATORS
  - DIRECTION OF TRAFFIC
  - FLAGGING OPERATION
  - FLASHING ARROW SIGN (FAS)
  - TYPE II BARRICADE
  - TYPE II BARRICADE WITH CONSTRUCTION SIGN
  - EXISTING TRAFFIC SIGNAL
  - EXISTING LANE WIDTH
  - MINIMUM PROPOSED CONSTRUCTION LANE WIDTH

**TRAFFIC DATA TABLE**

STREET NAME	LIMITS	ADT (AVERAGE DAILY TRAFFIC VOLUME) (VEHICLES)	85th PERCENTILE SPEED*(MPH)	TOP DESIGN SPEED (MPH)
HOTEL CIRCLE NORTH	WB I-8 ON/OFF RAMP	11,980	44 MPH	45 MPH
HOTEL CIRCLE SOUTH	TAYLOR ST-BACHMAN PL	15,318	40 MPH	40 MPH
HOTEL CIRCLE PLACE	SEFTON PARK-WB I-8 ON/OFF RAMP	N/A	25 MPH	25 MPH



**TABLE 1: TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING**

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	TAPER	TANGENT	CONFLICT
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	50	100	25
60	1440	720	360	240	50	100	25
65	1560	780	390	260	50	100	25
70	1680	840	420	280	50	100	25
75	1800	900	450	300	50	100	25

\* - For other offsets, use the following merging taper length formula for L:  
 For speed of 40 mph or less, L = WS^2/60. For speed of 45 mph or more, L = WS.  
 Where: L = Taper length in feet  
 W = Width of offset in feet  
 S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph  
 \*\* - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

**TABLE 2: LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING**

SPEED* (S)	Min D	DOWNGRADE Min D		
		-3%	-6%	-9%
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891
75	820	866	927	1003

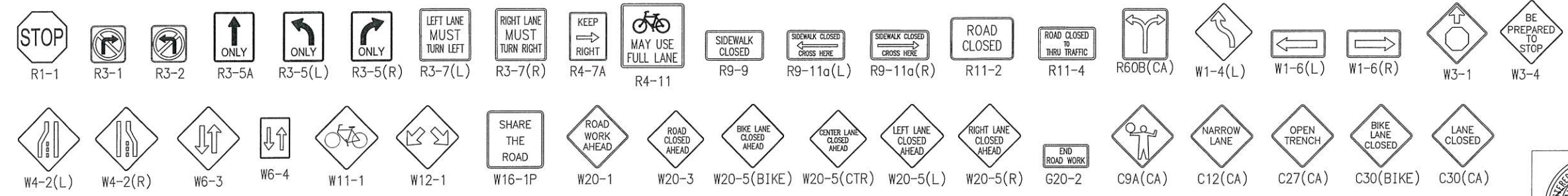
\* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph.  
 \*\* - Longitudinal buffer space or flagger station spacing.  
 \*\*\* - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

**TABLE 3: ADVANCE WARNING SIGN SPACING**

ROAD TYPE	DISTANCE BETWEEN SIGNS*		
	A	B	C
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

\* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

**TRAFFIC CONTROL SIGNS (TYP)**



APPROVED ENCROACHMENT PERMIT PLAN  
 Permit No.: 118NLL0953  
 Date: APR 05 2019



**HOTEL CIRCLE CI & AC ACCELERATED REPLACEMENT TRAFFIC CONTROL TITLE SHEET**

CITY OF SAN DIEGO, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT  
 SHEET 16 OF 27 SHEETS

WBS B-18235

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
 FOR CITY ENGINEER AHMED ABURAHMAH DEPUTY CITY ENGINEER  
 SUBMITTED BY: GABRIEL TORRES PROJECT MANAGER  
 DESIGNED BY: ROY GANZON PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	GP			

CONTRACTOR \_\_\_\_\_ DATE STARTED \_\_\_\_\_  
 INSPECTOR \_\_\_\_\_ DATE COMPLETED \_\_\_\_\_

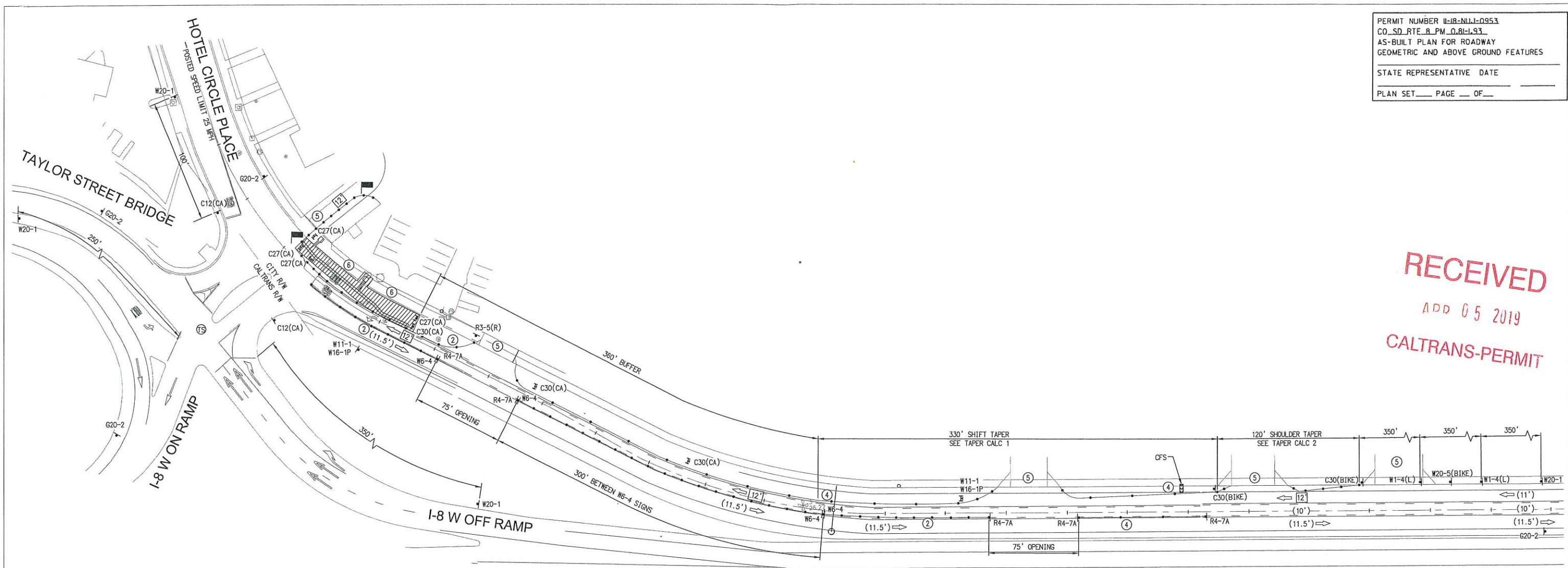
41025-16-D





PERMIT NUMBER 11-18-NULJ-0953  
 CO\_SD RTE\_R\_PM\_0.8L-1.93  
 AS-BUILT PLAN FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND FEATURES  
 STATE REPRESENTATIVE DATE \_\_\_\_\_  
 PLAN SET \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_

**RECEIVED**  
 APR 05 2019  
**CALTRANS-PERMIT**

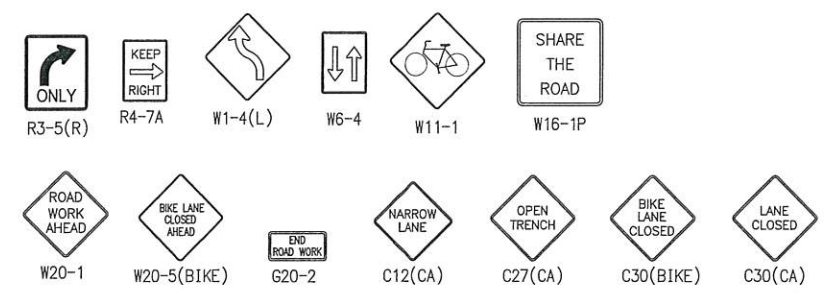


**HOTEL CIRCLE NORTH**  
 POSTED SPEED LIMIT 45 MPH

**LEGEND**

- WORK AREA
- OPEN TRENCH AREA
- TEMPORARY CONSTRUCTION SIGN (AS NOTED ON PLAN)
- PORTABLE CONES OR DELINEATORS
- DIRECTION OF TRAFFIC
- FLASHING ARROW SIGN (FAS)
- FLAGGING OPERATION
- TYPE II BARRICADE
- TYPE II BARRICADE WITH CONSTRUCTION SIGN
- EXISTING TRAFFIC SIGNAL
- EXISTING LANE WIDTH
- MINIMUM PROPOSED CONSTRUCTION LANE WIDTH

**TEMPORARY CONSTRUCTION SIGNS**



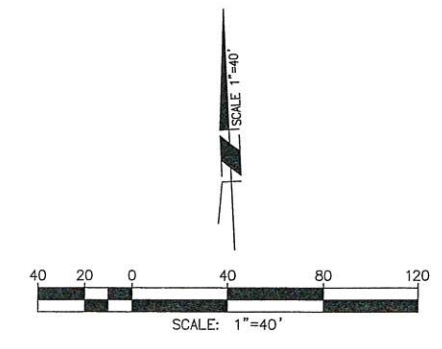
**WORK TO BE DONE THIS STAGE**  
 REPLACE EXISTING 12" WATER MAIN.

**TAPER LENGTH CALCULATIONS**

1. MIN. SHIFT TAPER =  $L / 2 = [(14') \times (45)] / 2 = 630' / 2 = 315' \rightarrow 330'$
  2. MIN. SHOULDER TAPER =  $L / 3 = [(5') \times (45)] / 3 = 225' / 3 = 75' \rightarrow 120'$
- L = LENGTH OF TRANSITION FOR SPEEDS OF 45 MPH OR HIGHER  
 =  $\frac{W \times S}{15}$
- W = OFFSET  
 S = DESIGN SPEED

**CONSTRUCTION NOTES**

- 2 CONES/DELINEATORS SHALL BE PLACED AT 15' INTERVALS.
- 4 CONES/DELINEATORS SHALL BE PLACED AT 35' INTERVALS.
- 5 CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO DRIVEWAYS DURING CONSTRUCTION.
- 6 CONTRACTOR SHALL PROVIDE MIN. 4' PATH THROUGH WORK ZONE AND PROVIDE ASSISTANCE TO PEDESTRIANS AROUND WORK ZONE AND TO CROSS HOTEL CIRCLE PLACE.



**APPROVED ENCROACHMENT PERMIT PLAN**  
 Permit No.: 1118NULJ0953  
 Date: APR 05 2019

**HOTEL CIRCLE CI & AC  
 ACCELERATED REPLACEMENT  
 TRAFFIC CONTROL  
 HOTEL CIRCLE PLACE - STAGE 3**

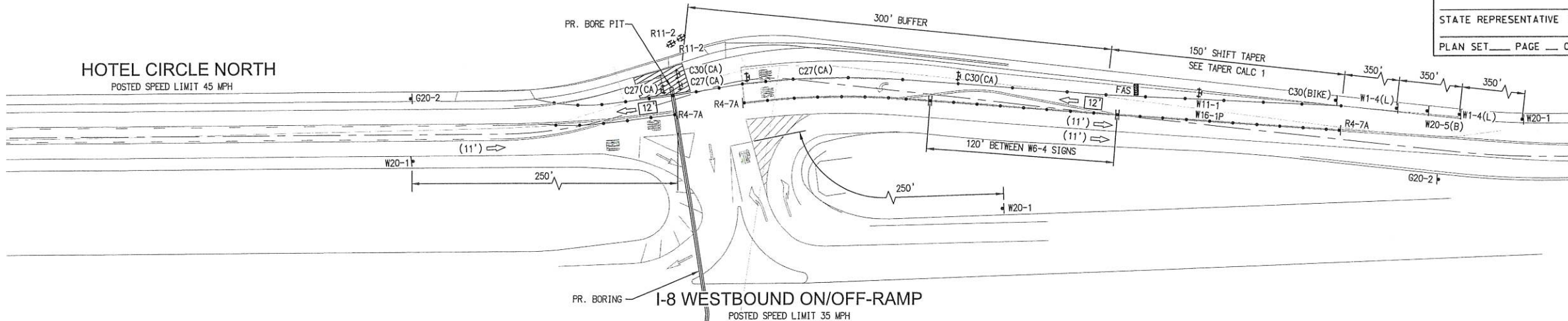
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 19 OF 27 SHEETS		WBS <b>B-18235</b>
APPROVED FOR CITY ENGINEER <b>AHMED ABURAHMAH</b> DEPUTY CITY ENGINEER	DATE _____	SUBMITTED BY <b>GABRIEL TORRES</b> PROJECT MANAGER
DESCRIPTION ORIGINAL	BY GP	CHECKED BY <b>ROY GANZON</b> PROJECT ENGINEER
DATE STARTED _____		DATE COMPLETED _____
CONTRACTOR INSPECTOR _____		41025-19-D

**WORK HOURS 9:00 PM TO 5:00 AM  
 WORK DAYS MONDAY THROUGH FRIDAY**



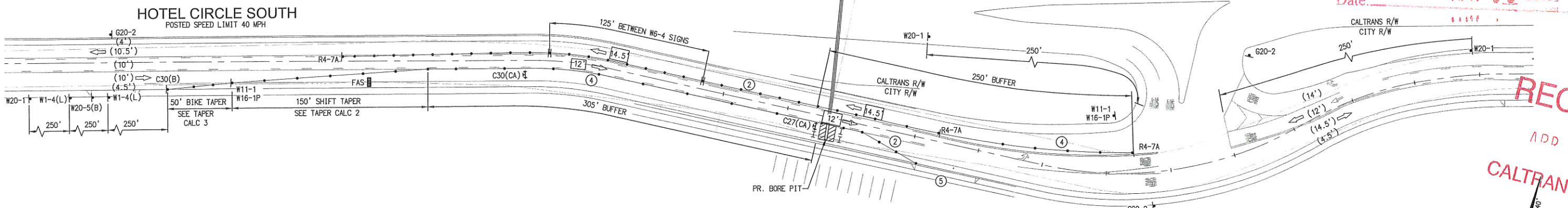
STAGE 3A

PERMIT NUMBER 118NUT0953  
 CO\_SD RTE\_B\_PM\_0.8L.93  
 AS-BUILT PLAN FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND FEATURES  
 STATE REPRESENTATIVE DATE \_\_\_\_\_  
 PLAN SET \_\_\_\_ PAGE \_\_\_\_ OF \_\_\_\_



STAGE 3B

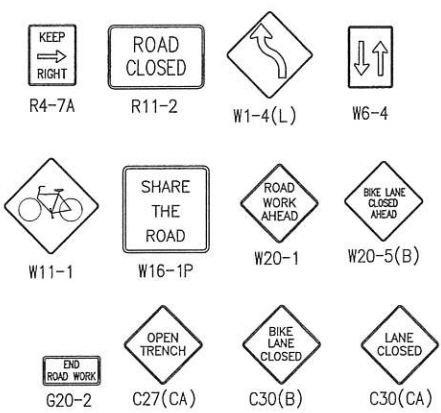
APPROVED ENCROACHMENT PERMIT PLAN  
 Permit No.: 118NUT0953  
 Date: APR 05 2019



RECEIVED  
 APR 05 2019  
 CALTRANS-PERMIT

- LEGEND**
- WORK AREA
  - OPEN TRENCH AREA
  - TEMPORARY CONSTRUCTION SIGN (AS NOTED ON PLAN)
  - PORTABLE CONES OR DELINEATORS
  - DIRECTION OF TRAFFIC
  - FLAGGING OPERATION
  - FLASHING ARROW SIGN (FAS)
  - TYPE II BARRICADE
  - TYPE II BARRICADE WITH CONSTRUCTION SIGN
  - EXISTING TRAFFIC SIGNAL
  - EXISTING LANE WIDTH
  - MINIMUM PROPOSED CONSTRUCTION LANE WIDTH

TEMPORARY CONSTRUCTION SIGNS



WORK TO BE DONE THIS STAGE  
 ADD CONCRETE PLUG TO EXISTING 8" CAST IRON PIPE

**TAPER LENGTH CALCULATIONS**

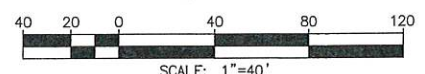
1. MIN. SHIFT TAPER =  $L / 2 = [(12') \times (45^2) / 60] / 2 = 405' / 2 = 202.5' \rightarrow 200'$
2. MIN. SHIFT TAPER =  $L / 2 = [(10') \times (40^2) / 60] / 2 = 266.6' / 2 = 133.3' \rightarrow 150'$
3. MIN. BIKE TAPER =  $L / 3 = [(5') \times (40^2) / 60] / 3 = 133.3' / 3 = 44.4' \rightarrow 50'$

L = LENGTH OF TRANSITION FOR SPEEDS OF 40 MPH OR LESS  
 $= W \times S^2 / 60$   
 W = OFFSET  
 S = DESIGN SPEED

**CONSTRUCTION NOTES**

- ② CONES/DELINEATORS SHALL BE PLACED AT 15' INTERVALS.
- ④ CONES/DELINEATORS SHALL BE PLACED AT 35' INTERVALS.
- ⑤ CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO DRIVEWAYS DURING CONSTRUCTION.

WORK HOURS 8:30 AM TO 3:30 PM  
 WORK DAYS MONDAY THROUGH FRIDAY



HOTEL CIRCLE CI & AC  
 ACCELERATED REPLACEMENT  
 TRAFFIC CONTROL  
 HOTEL CIRCLE NORTH & SOUTH  
 STAGE 3

CITY OF SAN DIEGO, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT  
 SHEET 25 OF 27 SHEETS

APPROVED:		DATE:		SUBMITTED BY:	
FOR CITY ENGINEER				GABRIEL TORRES	
AHMED ABURAHMAH				PROJECT MANAGER	
DEPUTY CITY ENGINEER				CHECKED BY:	
				ROY GANZON	
				PROJECT ENGINEER	
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	GP				
					000-0000
					CCS27 COORDINATE
					0000-0000
					CCS83 COORDINATE
					41025-25-D



**APPENDIX I**  
**SECTION 02340 GUIDED BORING AND JACKING**



## SECTION 02340

### GUIDED AUGER BORING AND JACKING

#### PART 1 - GENERAL

##### 1.1 WORK OF THIS SECTION

- A. The Work of this section applies to guided auger bore and jack operations within the Caltrans right-of-way and shall comply with Caltrans requirements and the approved Contract documents. The Work includes any measures to be taken to preserve the safety and flow of traffic, structural integrity of the roadway, ease of maintenance and the integrity of the new waterline. The CONTRACTOR shall provide jacked steel casing, guided tunnel boring machine and carrier pipe installation complete and in place, in accordance with the Contract Documents. Voids between the outside of the casing and the carrier pipe shall be completely filled with cementitious grout. The carrier pipe shall be properly installed and supported within the casing. The annular void between the carrier pipe and casing shall be filled with sand, cellular concrete, or grout and sealed at the ends of the casing.
- B. Existing roadways and utilities adjacent to and above the guided bored and jacked pipe are sensitive to loss of support. The capability to provide full support of the guided jacked and bored pipe tunnel face is essential to prevent loss of ground that may result in ground settlement and damage to adjacent structures, pavements, and utilities.
- C. Potential obstructions to guided auger boring and jacking and provisions for their removal are the CONTRACTOR's responsibility. The CONTRACTOR shall fill voids created by the removal of obstructions with grout before or, if that is not possible, immediately after moving the shield past the area of the void. Any and all costs associated with the backfilling of voids are included in the cost per lineal foot of the auger bored and jacked pipe. The CONTRACTOR shall be prepared to advance the pipe in a controlled manner while maintaining stability at the face and avoiding loss of ground.

##### 1.2 RELATED SECTIONS

- A. The Work of the following Sections also apply to the Work of this Section.
  - 1. Section 02320, Contact Grouting

##### 1.3 REFERENCE SPECIFICATIONS, CODES AND STANDARDS

- A. Except as otherwise indicated in this Section, the CONTRACTOR shall comply with the latest adopted edition of the following:
  - 1. Standard Specifications for Public Works Construction (SSPWC or "Greenbook")
  - 2. The City of San Diego Standard Specifications for Public Works Construction ("Whitebook")



9. Additional requirements from Caltrans and the City of San Diego, including approved permits for access and construction.
  10. Grout mix design and any drilling fluids to be used.
  11. Detailed description of equipment, materials, sequence and procedures for guided boring and jacking casing pipe and subsequent carrier pipe, including provisions for standby and backup equipment; proposed method of monitoring and maintaining guided auger bored pipe alignment; and materials, sequence and procedures for installing, supporting, and testing the installed new water pipeline.
  12. Method and type of lubrication around the jacked casing include density, viscosity, mix design, etc.
  13. Details of settlement monitoring program including, but not limited to, types, locations, baseline data, frequency of monitoring, reports, and forms to be used.
  14. Hydraulic jack and guided auger boring machine specifications including manufacturer, model number, capacity, and other pertinent information.
  15. Method of penetrating or removing various types of potential obstructions such as cobbles, boulders, stone debris, timber debris, buried foundations, pipelines, and other obstructing material.
- B. Contractor-Acquired Permits: The CONTRACTOR shall obtain all necessary permits from any governing agencies having jurisdiction over the location of the boring and jacking location. Before the start of excavation, the CONTRACTOR shall furnish two copies of all permits associated with the boring or jacking operations required by local, State and Federal regulations. The CONTRACTOR shall obtain GROUNDWATER DISCHARGE PERMIT and submit it prior to any construction.
- C. Insurance: The CONTRACTOR shall obtain and furnish any insurance required under the terms of the permits.
- D. Certifications: The CONTRACTOR shall furnish a certified affidavit of compliance for all pipe and other products or materials furnished under this Section, including physical and chemical properties of all steel. All expenses incurred in making samples for certification of tests shall be borne by the CONTRACTOR.

Qualifications: The CONTRACTOR shall submit qualifications of the subcontractor (if by subcontractor) or the CONTRACTOR's own forces responsible for boring or jacking operations. The CONTRACTOR or the CONTRACTOR's named tunneling, boring or trenchless construction subcontractor shall submit experience demonstrating similar guided bore trenchless installations, of similar size and length of bore, across Caltrans rights-of-way, successfully completed and documented with current references. The CONTRACTOR or approved Subcontractor's lead foreman, project superintendent, shall have experience in guided boring and jacking installations, of equivalent size and

linear footage as this project. All work shall be done by a qualified subcontractor with experience involving work of a similar nature.

## 1.5 QUALITY ASSURANCE/QUALIFICATIONS

- A. Notification: The CONTRACTOR shall furnish the City a minimum of 3 days advance notice before the start of an excavation or boring operations. The CONTRACTOR shall comply with all Caltrans requirements prior to any work within the Caltrans right-of-way.
- B. Inspection: All Work shall be performed in the presence of the City, unless the City has granted prior approval to perform such work in its absence. Prior to start of work, the CONTRACTOR shall give 14 calendar days' notice to the City on the exact date the work shall begin.
- C. Welding Requirements: All welding procedures used to fabricate steel casings shall be prequalified under the provisions of ANSI/AWS D1.1. Welding procedures shall be required for, but not necessarily limited to, longitudinal and girth or special welds for pipe cylinders, casing joint welds, reinforcing plates and grout coupling connections.
- D. Welders' Qualifications: All welding shall be done by skilled welders, welding operators, and tackers who have had adequate experience in the type of materials to be used. Welders shall be qualified under the provisions of ANSI/AWS D1.1 by an independent local, approved testing agency not more than 6 months prior to commencing work on the casing or pipeline. Machines and electrodes similar to those used in the Work shall be used in qualification tests. Furnish all material and bear the expense of qualifying welders.

## 1.6 SAFETY AND CONSTRUCTION WITHIN CALTRANS RIGHT-OF-WAY

- A. Safety Codes: Except as otherwise indicated, the following codes apply to the work of this Section:
  - 1. Title 8, California Administrative Code, Chapter 4, Subchapter 20, Tunnel Safety Orders.
  - 2. Title 8, California Administrative Code, Chapter 4, Subchapter 4, Construction Safety Orders, Article 6, Excavations, Trenches, Earthwork, Section 1542, Shafts.
- B. Gas Classification: The CONTRACTOR shall receive a gas classification for each bore from Cal OSHA prior to proceeding with each bore and ensure that the Work is done in conformance with all applicable federal, state, and local safety requirements. Of importance, and shall be included in the CONTRACTOR's bid, is the requirement for a "Pre-job Conference" and safety meeting with the ENGINEER, Caltrans, the City of San Diego and Cal OSHA prior to commencing any activities associated with tunneling. The CONTRACTOR shall schedule and arrange for this meeting at the CONTRACTOR's expense.

- C. Safety Devices and Equipment: The CONTRACTOR shall provide flagmen, barricades, lights, warning signs, ventilation, air quality monitoring, and other safety devices and equipment as may be required to ensure the safety of all people who may enter the area. Jacking and receiving pits shall be fenced off. The CONTRACTOR shall establish a procedure to log all persons into and out of the bore shaft and shall take necessary steps to prevent unauthorized entry. The air in the pipe shall be monitored in accordance with applicable laws and regulations, for methane or other potentially hazardous gases that may be encountered when jacking through organic soils. If air monitoring indicates that hydrogen sulfide, methane, or other flammable gases exist, the CONTRACTOR shall provide additional safety measures, such as additional ventilation, as required by applicable regulations.
- D. Safety Requirements: Boring and jacking work shall be performed in accordance with all applicable safety provisions in Contract documents.
- E. Jack & Bore Pits: The CONTRACTOR shall layout the proposed jack and bore pits prior to the commencement of work. Only after the ENGINEER has approved the layout will the Contractor be allowed to begin work. Pits shall be fenced on all sides and conform to Cal OSHA requirements for this work. The CONTRACTOR shall submit shoring drawings and calculations to the Engineer and concurrently to the City for review. All shoring, piling, bracing and the removal of such, shall conform to Caltrans requirements. It is the CONTRACTOR's responsibility to meet Caltrans and City regulations, entry schedules and requirements for work within the Caltrans right-of-way. All drawings and calculations shall be signed and stamped by a Civil or Structural Engineer licensed in the State of California.
- F. Casing and Pipe Carrier Load Conditions: Prior to commencement of work, the Contractor shall submit to the Engineer and Caltrans for review, load calculations for the proposed casing with applied load as defined by HS20 standards. The calculations shall be signed and stamped by a California licensed Civil or Structural Engineer. It shall be the CONTRACTOR's responsibility to provide signed and stamped calculations for the design of the casing that meets or exceeds the necessary loadings and to ensure that the casing is compatible with the jacking forces, tunneling method, the method of boring and boring head used.
- G. Backfill Within Caltrans Right-of-Way: All backfill shall be at 90% relative compaction based on ASTM D1557. For areas within or that affect the Caltrans right-of-way, the contractor shall submit a compaction report prepared by a California licensed Geotechnical Engineer. Five (5) days prior to the commencement of jack & bore activities, or any work required within the Caltrans right-of-way, the Contractor shall submit to Caltrans and the Engineer for review, an updated description of the work process including scheduled activities.
- H. Line and Grade: The CONTRACTOR's attention is called to the fact that the casing pipe must be installed to the tolerances listed on the plans so as to permit the construction of the carrier pipe to the lines and grades shown on the plans. It is the CONTRACTOR's responsibility to choose a size of casing at or above the minimum specified by the

CONTRACTOR's licensed engineer, to ensure that the jacking is done with a high degree of accuracy to permit installation of the carrier pipe to the grades shown on the plans.

- I. Temporary Facilities/Substantial Completion Within Caltrans Right-of-Way: The Contractor shall remove all temporary facilities constructed on the Caltrans right-of-way, debris, and other items not originally at the site prior to construction and shall notify Caltrans and the City that all construction has been completed.
- J. Grouting: Pressure grouting of the soils before or during jacking or boring may be required to stabilize the soil, control water, prevent loss of material, and prevent settlement or displacement of the ground and/or tracks. Grout shall be cement, chemical, or other special injection material selected to accomplish the necessary stabilization. The grouting contractor shall be a specialist in the field with experience of successfully grouting soil. Materials to be used and the method of injection shall be prepared by a California licensed Geotechnical Engineer, or by an experienced and qualified company specializing in this work and submitted for approval to the Engineer prior to the commencement of work. Proof of experience and competency shall be required and included under Contractor submittals
- K. Pre-Construction of Caltrans Activities: Prior to commencement of construction, the Contractor shall submit to the Engineer and Caltrans a plan showing the proposed method of casing installation, construction access, stockpile locations, WPCP control measures, fencing type and location, boring pit shoring plan, and a milestone schedule.
- L. Casing Jacking: Bracing and backstops shall be designed and jacks with sufficient rating used so that the jacking can progress without stoppage (except for adding lengths of pipe) until the leading edge of the pipe reaches the receiving pit. Casing boring shall adhere to the following requirements. This method consists of pushing the pipe into the fill with a boring auger rotating within the pipe to remove the spoil. When augers or similar devices are used for casing placement, the front of the pipe shall be provided with mechanical arrangements or devices that will positively prevent the auger from leading the casing so that there will be no unsupported excavation ahead of the casing. The auger and cutting head arrangement shall be removable from within the pipe in the event an obstruction is encountered. The over-cut by the cutting head shall not exceed the outside diameter of the pipe by more than one-half inch. The face of the cutting head shall be arranged to provide reasonable obstruction to the free flow of soft or poor material. The use of water, jetting or other liquids to facilitate casing placement and/or spoil removal is prohibited. Plans and descriptions of the auger stop arrangement to be used shall be submitted to the Engineer as part of the Contractor's submittal for approval prior to commencement of work. If an obstruction is encountered during installation of the casing pipe that will stop the forward action of the pipe, and it becomes evident that it is impossible to advance the pipe, operations will cease, and the pipe shall be abandoned in-place and pressure grouted full before continuing with work. Location, length, and depth of abandoned casing pipes and carrier pipes shall be shown on the as-built drawings. Bored or jacked installations shall have a bored-hole diameter essentially the same as the outside diameter of the casing plus the thickness of the protective coating. If voids should develop or if the bored-hole diameter is greater than the outside diameter of the casing pipe, plus

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coating, by more than approximately 1 inch, grouting or other methods as approved by the Engineer shall be employed to fill such voids.

- M. Dewatering: When water is known or expected to be encountered during the entirety of the guided boring and jacking operation, dewatering shall be done in accordance with the Greenbook and Whitebook.

## **1.7 EXISTING CONDITIONS**

- A. Subsurface Conditions: The City will make available to the CONTRACTOR existing subsurface information. Additional subsurface investigations deemed necessary by the CONTRACTOR to complete horizontal boring work shall be conducted at no additional cost to the OWNER. Copies of all additional subsurface reports obtained by the CONTRACTOR shall be provided to the City. Subsurface information and soil borings and geotechnical investigations are provided as reference documents to these technical specifications. Information is provided from the following reports or studies of the local vicinity:
  - 1. Waterline Crossing Below Interstate 8, Taylor Street to Hotel Circle Place, San Diego, CA

## **PART 2- PRODUCTS**

### **2.1 MATERIALS**

- A. General: Steel casings shall be welded steel pipe of the diameters and plate thicknesses indicated. The steel pipe casings shall conform to ANSI/AWWA C200, subject to the following supplemental requirements. The CONTRACTOR may select a greater diameter or thickness for the method of work and loadings involved, site conditions, and possible interferences at no additional cost to the OWNER.
- B. Steel Casing: The steel casing pipe shall be new, unused and in accordance with ASTM A-139, Grade B, or ASTM A53, Grade B, with a minimum yield strength of 35,000 psi with one end beveled the other end square cut. The minimum casing inside diameter shall be at least 6 inches larger than maximum outside diameter of the carrier pipe. The casing wall thickness shall be designed to accommodate the maximum jacking load allowed, as well as expected earth and live loads. Thickness shall be no less than 5/8 inch and the CONTRACTOR shall be fully responsible for the sufficiency of the casing provided. Casing section joints shall be of the interlocking type or butt welded, lap welded, or welded using butt or banding straps in the field. Each end of the casing for butt welding shall be prepared by providing 1/4-inch by 45-degree chamfer on the outside edges.
- C. Casing End Seals: Seals shall be standard wrap around end seals, made of synthetic rubber, with self-curing rubber sealing strips and provided with Type 316 stainless steel bands and clamps. End seals shall be manufactured by Pipeline Seal and Insulator Inc., Model W, Advance Products & Systems Inc. Model AW, or equal.

- D. Carrier Pipe Support: The CONTRACTOR shall provide casing spacers, stainless steel band with risers, if necessary, and polymer runners, to support the carrier pipe within the casing, to prevent the carrier pipe from floating, and to electrically insulate the carrier pipe from the casing. Spacers shall be designed and spaced to support the carrier pipe when full, with no water in the annular space. The casing spacer runners on the underside of the carrier pipe shall be high enough so that the carrier pipe shall clear the invert of the casing pipe by one inch minimum. There shall also be a maximum of one-inch clear space between the top of spacer and the crown of the casing.
1. Casing Spacers: Pipe casing spacers shall be constructed of 304 stainless steel bands with bolt-on type bands forming a complete shell around the carrier pipe and insulate this assembly from the casing pipe. The bands shall be 8-12 inches wide and shall be made of two sections of 14-gauge steel coated with fusion bonded epoxy. The thickness of the fusion bonded coating shall be at least 10 mils. The bands shall be lined with a 0.09-inch-thick polyvinylchloride ribbed liner having a hardness of Durometer "A" 85-90. The runners shall be made of at least 2-inch wide glass filled polymer plastic. The spacers shall be designed with risers to support the carrier pipe within the casing and maintain a minimum of 1-inch clearance between the casing inside diameter and the spacer outside diameter. On casing pipes of 36-inches diameter or less, each spacer shall contain four riser and runner combinations, two on each half of the bolted spacer assembly. Abrasion-resistant runners, having a minimum length of 7" and a minimum width of 1", shall be attached to each band and/or riser (depending on design criteria) to minimize friction between the casing pipe and the carrier pipe as it is installed. Runner material shall be of glass filled polymer with a compression strength of 33,000 psi, flexural strength of 40,000 psi and tensile strength of 27,000 psi. The ends of all runners shall be beveled to facilitate installation over rough weld beads or the welded ends of misaligned or deformed casing pipe. Spacing shall be 1-2-feet each side of joint and every 8-feet on center thereafter. Bolts, studs, nuts and washers shall be type 316 stainless steel. Casing spacers shall be Pipeline Seal and Insulator Inc. Model C12G-2, Advance Products & Systems Inc. Model SSI-8, or equal.
- E. Grout: Grout shall be cementitious grout per Specification Section 02320 and Section 202-3.2 of the Standard Specifications for Public Works Construction ("Greenbook") and shall be placed to fill voids outside of the casing and the annular space between the steel casing and the carrier pipe. Annular space grouting requirements shall be per Section 500-5.8.8 of the Greenbook. The CONTRACTOR shall submit plans and procedures for the grouting operation including location of vents to relieve air pressure and assure that the voids have been completely filled.
- F. Grout Connections for Annular Space Between Carrier Pipe and Casing: Provide 2-inch half-couplings with plugs for pressure grouting the annular space between the casing and the excavation, surrounding soil. Grout fittings shall be per the details on the contract drawings. Longitudinal spacing between the grout connections may be decreased to provide more frequent grouting, but in no case shall the spacings shown or specified, be exceeded. Plug the grout fittings after grouting. Grout from the low end working uphill until it is certain that grout has completely filled the annular space.

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## **PART 3 - EXECUTION**

### **3.1 GENERAL REQUIREMENTS FOR GUIDED AUGER BORING**

- A. OWNER-Acquired Permits: Permits obtained by the OWNER which relate to boring and jacking are attached to the Contract Documents. The CONTRACTOR however is required to obtain all necessary right of entry and construction permits from the City and Caltrans and these costs shall be included in their bid. The CONTRACTOR shall abide by all permit conditions.
- B. Lawful Requirements: The CONTRACTOR shall comply with the lawful requirements of the affected, City of San Diego, Caltrans, public agencies, and owners of public utilities or other facilities respecting the safeguarding of traffic and improvements that might be endangered by the boring and jacking operations.
- C. Open Trenches: The approach trenches in public streets will not be permitted to remain open for extended periods of time. If the CONTRACTOR is not ready to place the pipe in the casing at the time of completion of boring and jacking operations, the ends shall be bulkheaded, and the approach trenches in public streets shall be backfilled, temporary surfacing placed thereon, and the affected portion of the street reopened to traffic.
- D. Maintaining Line and Grade: The CONTRACTOR shall be responsible for maintaining the specified line and grade, and for preventing settlement of overlying structures, or other damage due to the boring and jacking operations.
- E. The CONTRACTOR shall provide a seal between the outer face of the steel casing pipe and the penetration through the launching and receiving pit walls. The seal shall provide enough resistance to prevent soil fines from washing out from the retained soil. The method of sealing this section of the pit is the responsibility of the CONTRACTOR.
- F. The CONTRACTOR shall design, furnish, install and remove, to the extent required; thrust or reaction block or whatever provisions may be required in driving the pipe sections forward.
- G. Support of excavation shall be designed and installed to protect adjacent utilities, railways, structures, fences etc. All excavation support shall be removed upon completion of the work as approved by the ENGINEER and Caltrans unless otherwise directed.

### **3.2 INSTALLATION OF CASING**

- A. Installation: The installation of the casing shall be in accordance with the Contract Documents and subject to the approval of Caltrans and the City. The guided auger boring excavation shall be in accordance with standard practice for the equipment and method selected. The equipment and method of guided auger bore excavation selected shall minimize settlement of the railyard, utilities, pavements and structures

above and adjacent to the jacking/bored alignment yet be capable of penetrating potential obstructions. The CONTRACTOR shall prevent the occurrence of voids outside the jacked/bored pipe that will endanger existing roads or structures. If voids occur, the CONTRACTOR shall fill them with cement grout. In order to minimize the voids produced during excavation in the forward end of the bored pipe, the CONTRACTOR shall be required to use a jacking shield.

- B. Potholing: The CONTRACTOR shall pothole all existing utilities within and adjacent to the proposed location of the bored and jacked casing prior to excavating the boring/jacking and receiving pits. The CONTRACTOR shall coordinate all potholing with the respective utility owners.
- C. Jacking Head: A steel steerable jacking head shall be fitted to the lead section of the casing in such a manner that it extends around the entire outer surface of the steel casing and projects at least 18 inches beyond the driving end of the casing. The jacking head shall not protrude more than ½-inch outside of the outer casing surface. The head shall be securely anchored to prevent any wobble or alignment variation during the boring or jacking operations. To minimize voids outside the casing, excavation shall be entirely within the jacking head and not in advance of the head. Excavated materials shall be removed from the casing as the boring or jacking operation progresses and accumulation of excavated materials within the casing shall not be permitted.
- D. Jacking Pit: The excavations for the boring or jacking operations shall be adequately shored to safeguard existing substructures and surface improvements and to ensure against ground movement in the vicinity of the jack supports. Heavy guide timber, structural steel, or concrete cradles of sufficient length shall be provided to assure accurate control of boring or jacking alignment. Adequate space shall be provided within the excavation to permit the insertion of the lengths of casing to be bored or jacked. Timbers and structural steel sections shall be anchored to ensure action of the jacks in line with the axis of the casing. A bearing block, consisting of a timber or structural steel framework, shall be constructed between the jacks and the end of the casing to provide uniform end bearing over the perimeter of the casing and distribute the jacking pressure evenly.
- E. Control of Alignment and Grade: The CONTRACTOR shall control the application of the jacking pressure and excavation of materials ahead of the casing but within the jacking head as it advances to prevent the casing from becoming earthbound or deviating from the required line and grade. The CONTRACTOR shall restrict the excavation of the materials to the least clearance necessary to prevent binding in order to avoid loss of ground and consequent settlement or possible damage to overlying structures. Allowable grade deviations in horizontal and vertical alignments shall be no greater than 0.2 feet per 100 feet in any direction over the length of the jacking or boring to a maximum deviation of 0.5 feet. Final installation shall be without a sag in the pipe. A lubricant such as bentonite may be used to reduce the friction between the casing and the bore hole after first reviewing the procedure with the GSWC. Survey control shall be provided by a California licensed land surveyor who shall also monitor for any settlement over the casing. Survey control and settlement monitoring shall be conducted to meet Caltrans and City requirements before, during and after the boring

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operations and the carrier pipe is fully grouted within the annular space of the casing. The CONTRACTOR shall submit a survey control and settlement monitoring plan for approval City and Caltrans for approval prior to beginning any operations. The CONTRACTOR shall provide two copies of the controls and monitoring record to the City at completion. Once the guided auger boring and jacking operation has begun, the CONTRACTOR shall work continuously and diligently until the complete length of pipe has been installed. This requirement may be waived if the CONTRACTOR demonstrates the ability to bulkhead and stabilize the tunnel face at all times, maintain dewatering if necessary, lubricate the sleeve as needed to prevent "seizing" of the casing, and continue with jacking should it be stopped overnight or for any other reason.

- F. Grouting: The CONTRACTOR shall inject grout through the grout connections in such a manner as to completely fill all voids outside the casing pipe resulting from the boring or jacking operations. Grout pressure shall be controlled so as to avoid deformation of the steel casing and avoid movement of the surrounding ground. Grouting shall be completed per the requirements of Specification Section 02320.

### **3.3 INSTALLATION OF CARRIER PIPE**

- A. Joints: All joints of the carrier pipe within the casing shall be restrained in accordance with the type of carrier pipe material installed.
- B. Application of Mortar Lining and Coating to Joints: Application of mortar to the interior and exterior joints shall be performed in accordance with the requirements for the selected type of carrier pipe material. No exterior or interior joints of the carrier pipe shall have mortar grout applied over a seam until the seam has cooled. Exterior and interior joints of the carrier pipe shall be mortar coated and lined in the field.
- C. Carrier Pipe Support: The CONTRACTOR shall position casing spacers to prevent excessive sag, bending and shear stresses in the piping in. End casing spacers or skids shall be placed within 6 inches or at 24 inches maximum of each end of the conductor casing. There shall be a minimum of two casing spacers installed on each section of pipe.
- D. Testing of the Carrier Pipe: Hydrostatic testing of the carrier pipe shall be completed prior to the filling of the annular space between the casing and carrier pipe with sand or other alternate grout or backfill materials approved by the City and Caltrans. Hydrostatic testing shall be performed in accordance with the "Greenbook" and the "Whitebook."
- E. Additional Pipes or Conduits: Where more than one pipe or conduit such as for irrigation or communication cables in addition to the primary carrier pipe, is shown inside the casing, they shall be bundled and attached to the skids as a unit in the quadrant shown with restrained joints.
- F. Backfilling of the Annular Space Between the Casing and Carrier Pipe: The annular space between the carrier pipe and the casing shall be filled with sand or cellular

concrete, grout or other materials as approved by the City of San Diego and in accordance with the "Greenbook" or "Whitebook."

1. Sand Backfill: The CONTRACTOR shall furnish sand, equipment, hoses, valves, and fittings for filling the annular space between the casing and carrier pipe. Sand shall be conveyed by air through a hose and deposited by air pressure in its final position. The sand shall be free of lumps to flow unimpeded and to completely fill all voids. In general, sand backfill will be considered completed when no more sand can be forced into the annular space. The CONTRACTOR shall protect and preserve the interior surfaces of the steel casing from damage.
  2. Cellular Concrete Backfill: The CONTRACTOR shall furnish cellular concrete, pumping equipment, hoses, valves and fittings for filling the annular space between the casing and carrier pipe. Cellular concrete shall be produced by combining controlled quantities of air, water and foaming agents under pressure. The resulting cellular concrete shall have closed cell and low water absorptive characteristics. Cellular concrete shall be of proper consistency and shall be adequately consolidated to fill all voids. The CONTRACTOR shall protect and preserve the interior surfaces of the steel casing from damage.
  3. Grout: The CONTRACTOR shall furnish grout, equipment, hoses, valves, and fittings for filling the annular space between the casing and carrier pipe. Grout shall be pumped through a hose with a slick line embedded a minimum of 12-inches into the advancing grout and steadily withdrawn until the casing is backfilled.
- G. Installation of Conductor Casing End Seals: The CONTRACTOR shall secure the casing seals in place with stainless steel bands in accordance with the manufacturer's recommended procedures. The installation shall be made water tight by bonding together the exposed overlapping surfaces with a permanent sealing adhesive.
- H. Closing of Pits: After jacking equipment and excavated materials from boring or jacking operations have been removed from the jacking pit, the CONTRACTOR shall prepare the bottom of the jacking pit as a pipe foundation. All loose and disturbed materials below pipe grade shall be removed to undisturbed earth and shall be filled and recompacted.

### **3.4 OBSTRUCTIONS DURING GUIDED AUGER BORING AND JACKING**

- A. The CONTRACTOR shall remove obstructions that prevent the pipe(s) from being installed at the proper grade and alignment. Obstructions may be encountered during the progress of the Work. Obstructions are defined as follows:
1. Obstructions are natural, man-made or man-placed materials, or boulders, occurring at or below ground surface which unavoidably and completely stop the progress of excavation for more than one hour, despite the CONTRACTOR's diligent efforts as determined by the Engineer. Utilities and utility structures

indicated on the Drawings shall not be considered obstructions and shall be removed and relocated as required and approved.

2. Obstructions shall not include any item whose penetration, demolition, removal, or excavation is included clearly and expressly in the Work of any other pay item.
  3. Unknown obstructions include, but are not limited to, obstructions that are not indicated on the Drawings, but whose general presence or nature are indicated in the documents, as well as obstructions similar to obstructions in the Contract Documents either explicitly or by reference.
  4. Boulders shall be treated as obstructions during pipe-jacking/boring excavation, when they unavoidably and completely stop the progress of the excavation or subsurface drilling for more than one hour, despite the CONTRACTOR's diligent efforts, as determined by the Engineer. The Work and time required to deal with them is incidental to and included in the pay item for the installation of the pipe by the operations related to this section.
- B. The CONTRACTOR shall anticipate encountering obstructions during the guided auger boring excavation. This Contract establishes a unit pay item with units of crew hours.
1. Time is of the essence in the removal of obstructions. The CONTRACTOR's submitted schedule shall identify and provide for all activities and appropriate logic and duration including pre-excavation and obstruction removal.
  2. The CONTRACTOR shall notify the Engineer, or the Engineer's designated representative, immediately upon encountering any potential obstruction which unavoidably and completely stops the progress of the Work, despite the CONTRACTOR's diligent efforts. The notification must be in writing and shall inform the Engineer whether the CONTRACTOR considers the potential obstruction as an unknown obstruction or an obstruction covered under another payment item. The notification shall also include all pertinent information relating to the nature, depth, plan location coordinates, expected extent of potential obstruction, and the methods the CONTRACTOR intends to use to overcome the potential obstruction. The CONTRACTOR shall provide physical evidence, acceptable to the Engineer; of the material comprising the potential obstruction and that the potential obstruction is not bedrock.
  3. Upon receiving such notification, the Engineer shall make a determination in accordance with the provisions established herein, as to whether the encountered item is an obstruction and under which payment item it falls. If the CONTRACTOR claims that any such determination or that any direction provided by the Engineer in response to such notice of potential obstruction constitutes a change under the Contract, it shall proceed diligently in accordance with the direction of the Engineer and shall file timely notice of change (within three days). The CONTRACTOR shall also proceed diligently with all aspects of the Work not stopped by obstructions.

4. Remove obstructions by the most diligent means complying with noise and vibration limitations and other specified requirements. Maintain excavation support and protection of nearby utilities at all times.
5. At all times during the removal of obstructions, the CONTRACTOR shall diligently pursue the removal of obstructions using all the necessary and appropriate means and methods such as penetrating, cutting, removing, clearing, drilling, splitting, or otherwise making it possible for the casing pipe to advance past any obstruction. This shall include installation of an obstruction removal shaft, if necessary, and if accepted by the Engineer. The CONTRACTOR must have on hand at all times readily available equipment, tools, materials, and labor appropriate for the effective removal of all types of potential obstructions. No payment shall be made for any inefficient time, idle time, or time not spent removing the obstruction due to the CONTRACTOR's failure to have readily available equipment, tools, materials, and labor.

### **3.5 DEWATERING**

- A. When water is known or expected to be encountered during the guided boring and jacking operation, the CONTRACTOR shall dewater the operation under the provisions of the Greenbook and Whitebook.

**END OF SECTION**

**APPENDIX J**  
**SECTION 02320 CONTACT GROUTING**

**SECTION 02320**  
**CONTACT GROUTING**

**PART 1 - GENERAL**

**1.1 REFERENCES**

- A. This section specifies minimum requirements for contact grouting of the annular space of jacked casing pipe installed by guided auger boring and jacking in accordance with Section 02340.

**1.2 RELATED SECTIONS**

- A. The Work of the following Sections also apply to the Work of this Section.
  - 1. Section 02340, Guided Auger Boring and Jacking.

**1.3 REFERENCE SPECIFICATIONS, CODES, AND STANDARDS**

- A. Except as otherwise indicated in this Section, the CONTRACTOR shall comply with the latest adopted edition of the following:
  - 1. Standard Specifications for Public Works Construction (SSPWC or "Greenbook").
  - 2. The City of San Diego Standard Specifications for Public Works Construction ("Whitebook").
- B. Comply with the following industry standards effective at time of bid:
  - 1. ASTM C31 - Standard Practice for Making and curing Concrete Test Specimens in the Field
  - 2. ASTM C39 - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
  - 3. ASTM C109 - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-inch Cube Specimens)
  - 4. ASTM C144 - Standard Specification for Aggregate for Masonry Mortar
  - 5. ASTM C150 - Standard Specification for Portland Cement
  - 6. ASTM C937 - Standard Specification for Grout Fluidifier for Preplaced-Aggregate Concrete
  - 7. NSF/ANSI Standard 060 - Drinking Water Treatment Chemicals – Health Effects



#### **1.4 DEFINITIONS (NOT USED)**

#### **1.5 DESIGN REQUIREMENTS**

- A. Contact grouting is required along the entire casing alignment. Contact grout ports shall be 2 inches in diameter 22.5 degrees off top center line and 10 feet apart, staggered, and 60 degrees off bottom center line and 20 feet apart, staggered.
- B. Grout mix (water-cement) ratios shall be expressed in cubic feet of water per cubic foot of cement (94-pound bag). The water-cement ratio by volume shall be varied as needed to fill the voids outside the jacking pipe. The range of water-cement ratios shall be between 1:1 and 2:1 by volume.
- C. Grout shall consist of Portland cement, not more than 2 percent bentonite by weight of cement, fluidizer as necessary, and water in the proportions specified herein or acceptable to the Engineer. Sand is an allowed additive to the grout mix in instances of very high grout takes, more than 1 cubic yard, or as accepted by the Engineer. The grout mix shall be limited to 1-part Portland cement to 5 parts sand by volume. In no case shall the grout mix contain less than six sacks of cement per cubic yard of grout. The addition of water or fluidizer is permitted when sand is added to the grout mix.
- D. Provide grout with a minimum unconfined compressive strength (UCS) of 100 pounds per square inch (psi) in 24 hours, 500 psi in 7 days, and 1,000 psi in 28 days.
- E. Dispose of grout not injected after 90 minutes of mixing.

#### **1.6 QUALITY ASSURANCE**

- A. Engineer shall be a professional engineer licensed by the State of California. The engineer shall have experience in performing grout pressure or hydrofracture calculations similar to the size this project.
- B. Work Plan includes:
  - 1. Contact grouting methods and details of equipment, grouting procedures and sequences, monitoring and recording equipment, methods of controlling grout pressure, and provisions to protect pipe lining or shaft supports.
  - 2. Schedule for all grouting operations and associated works by reach. Schedule shall be coordinated with overall schedule for the Contract.
  - 3. Procedure for disposing of unused grout and flushing lines.
- C. Grout Strength Tests:
  - 1. Prepare and test samples for 24-hour, 7-day, and 28-day compressive strength tests according to ASTM C39 for cylinders or ASTM C109 for cubes, except as otherwise specified herein.

2. Take grout for the cylinders or cubes from the nozzle of the grout injection line. Provide at least one set of four (4) samples for each 100 cubic feet of grout injected, but not less than one set for each batch in accordance with ASTM C31.
- D. Grouting Logs: Grouting locations, pressures, volumes, and grout mix pumped, time of pumping, mixer person and person at grout port. Note any problems or unusual observations on logs.

## **1.7 CONTRACTOR SUBMITTALS**

- A. Submittals shall be made in accordance with the Greenbook and Whitebook and as specified herein.
- B. Submittals shall be coordinated with all relevant submittals, assembled and submitted as a single, comprehensive submittal.
- C. Where calculations are required to be submitted, they shall be signed and sealed by a Professional Civil Engineer registered in the State of California. Calculations shall clearly identify all parameters used, state all assumptions made in the calculation, and identify all sources of information.
- D. All shop drawings shall be legible with dimensions accurately shown and clearly marked in English.
- E. Qualifying Submittals:
1. Qualifications of Contractor's Engineer
  2. Work Plan.
  3. Product Data:
    - a. Materials specified in Part 2.
    - b. Material Safety Data Sheets.
  4. Certificate, dated with six months of use, from an independent laboratory that the calibration gauge is accurate to 1 psi.
- F. Pre-Construction Submittals:
1. Details of grout mix proportions, admixtures, including manufacturer's literature, and laboratory test data verifying the strength and set time of the proposed grout mix.
  2. Calculations confirming planned injection pressures and maximum injection pressures at regular increments not to exceed 40 feet.
  3. Grout/lubrication one-way valves assemblies.

CONTACT GROUTING 2320 - 3

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4. Grout/lubrication piping diagram and shop drawing at point of injection.
  5. Results of Grout Strength Tests for proposed mixes.
- G. Construction Submittals:
1. Daily Grouting Logs one work day after injection.
  2. Cumulative Test reports for each break within one work day after break.

**1.8 PROJECT/SITE CONDITIONS**

- A. For subsurface ground information see Geotechnical Report.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Cement: Cement shall be Type II or Type V Portland cement conforming to ASTM C150. Type II cement shall meet Table 4 false set requirements of ASTM C150.
- B. Bentonite: Bentonite shall be a commercially processed powdered bentonite, Wyoming type; NSF/ANSI Standard 060 compliant.
- C. Water: Potable.
- D. Sand: Conform to ASTM C144 except:
1. Fineness modulus: Between 1.50 and 2.00 and
  2. Grading Requirements:

Sieve Sizes	Percentage passing by Weight
No. 8	100
No. 16	95-100
No. 30	60-85
No. 50	20-50

Sieve Sizes	Percentage passing by Weight
No. 100	10-30
No. 200	0-5

- E. Fluidizer: Fluidizers, or fluidifiers, shall hold the solid constituents of the grout in colloidal suspension, be compatible with the cement and water used in the grouting work, and comply with the requirements of ASTM C937.
- F. Admixtures: Shall be accepted by the ENGINEER. If commercially available and acceptable to the product manufacturer all polymers, and additives, other than soda ash, shall be NSF/ANSI Standard 060 compliant.

## 2.2 EQUIPMENT

- A. Equipment for mixing and injecting grout shall be adequate to satisfactorily mix and agitate the grout and pump it into the annular space at a constant pressure at variable delivery volumes.
- B. Provide a pressure gauge at the grout pump and a pressure gauge at the grout port. Periodically check the accuracy of the gauges with an accurately calibrated pressure gauge. Provide a minimum of two spare pressure gauges available on site at all times.
- C. Provide a flow meter to determine the volume of grout injected. Calibrate the meter in cubic feet to the nearest one-tenth of a cubic foot.
- D. Provide grouting hoses with an inside diameter of not less than 1 ½ inches or not more than 2 inches and capable of withstanding twice the maximum water and grout pressures to be used.
- E. Provide injection system with a grout recirculation hose.
- F. Provide one-way grout injection or lubrication valves.
- G. Maintain the grouting equipment in satisfactory operating condition throughout the course of the work to ensure continuous and efficient performance during grouting operations.

## PART 3 - EXECUTION

### 3.1 GENERAL REQUIREMENTS

- A. Perform all work in accordance with accepted submittals.

- B. Control the grout pressure so as to avoid damaging the jacking pipe, and to avoid movement of the surrounding ground, buried utilities or structures.
- C. Perform all grouting operations in the presence of the Engineer and provide the City with access to the grouting operations. Notify the Engineer at least one work day in advance of starting contact grouting operations.
- D. Maintain a copy of the Contract Documents at a location acceptable to the Engineer and accessible to the grout operator and Engineer.
- E. The Contractor shall take care to prevent the spill or escape of grout to the ground surface, into any water body, or into another underground facility. The Contractor shall closely monitor grouting operations to detect any spills or escape of grout to the surface, into any water body, or into another underground facility. Any such spill shall be immediately contained and cleaned-up.
- F. During grouting work, provide for adequate disposal of all waste and wastewater. Remove and properly dispose of all waste grout resulting from grouting operations. The contents of grout lines shall only be discharged into an appropriate container located on the surface.

### **3.2 MIXING AND INJECTION OF GROUT**

- A. Provide materials free of lumps when added to the mixer.
- B. Agitate the grout mix continuously.
- C. Grout shall flow unimpeded and shall completely fill all of the annular space and voids.
- D. Make a hookup to every grout port.
- E. Dispose of unused grout and flushed grout in accordance with established procedures.
- F. Re-circulate grout mixes when any new mix is batched or after adding water, fluidizer, or sand to the mix. Re-circulate the mix for at least 2 minutes prior to pumping grout into the grout ports.
- G. Progress with grouting sequentially in a constant up-gradient direction.
- H. Upon completion of the horizontal auger boring and before performing a closed loop survey or installing the carrier pipe, attempt to perform contact grouting through the ports. Attempt to force cement grout in to the space outside the casing to fill voids to refusal at the maximum allowable pressure as determined by the Contractor's Engineer, but not to exceed 50-psi.

- I. Grouting in any single port shall be considered completed when less than 1.0 cubic foot of grout, of the accepted mix and consistency, is pumped in 5 minutes under the submitted maximum injection pressure or the grout flows through the next grout port, or shaft at the same rate as the rate of pumping.

### **3.3 CLEANUP**

- A. Place and weld each grout port plug so as to prevent any water seepage.
- B. Grind any material from inside casing that may impinge on carrier pipe insertion.
- C. Clean grout and any deleterious material from inside the jacking pipe.
- D. Remove and properly dispose of all waste materials.

**END OF SECTION**

**APPENDIX K**  
**HAZARDOUS WASTE LABEL AND FORMS**

# 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



# INCIDENT/RELEASE ASSESSMENT FORM <sup>1</sup>

## 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.

<sup>1</sup> 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 <sup>3</sup>
Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT <sup>3</sup>
Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT <sup>3</sup>
Clean-Up Procedures & Timeline:	
Completed By:	Phone:
Print Name:	Title:

**EMERGENCY RELEASE FOLLOW - UP NOTICE REPORTING FORM**

<b>A</b>	BUSINESS NAME	FACILITY EMERGENCY CONTACT & PHONE NUMBER ( ) -	
<b>B</b>	INCIDENT DATE MO DAY YR	TIME OES NOTIFIED (use 24 hr time)	OES CONTROL NO.
<b>C</b>	INCIDENT ADDRESS LOCATION	CITY / COMMUNITY	COUNTY ZIP
<b>D</b>	CHEMICAL OR TRADE NAME (print or type)		CAS Number
<b>D</b>	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"/>	
<b>D</b>	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
<b>D</b>	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
<b>E</b>	ACTIONS TAKEN		
<b>F</b>	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) _____		
<b>G</b>	ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS		
<b>H</b>	COMMENTS (INDICATE SECTION (A - G) AND ITEM WITH COMMENTS OR ADDITIONAL INFORMATION)		
<b>I</b>	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.

**APPENDIX L**  
**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.

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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 M

### 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**

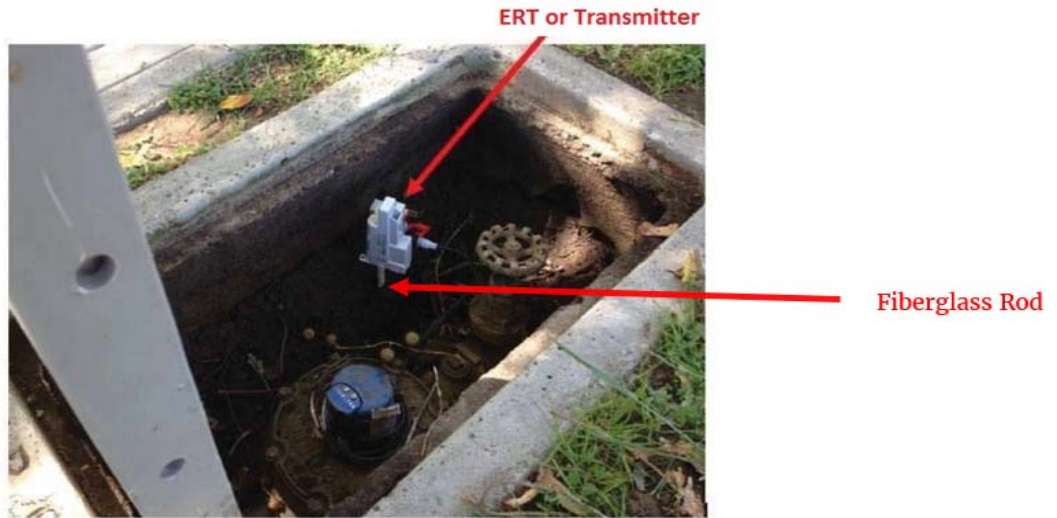


Photo 6 below is an example of disturbance that shall be avoided:

**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.**

**ATTACHMENT F**

**RESERVED**

**ATTACHMENT G**  
**CONTRACT AGREEMENT**

## CONTRACT AGREEMENT

---

### CONSTRUCTION CONTRACT

This contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and KTA Construction, Inc., herein called "Contractor" for construction of **Hotel Circle CI and AC Accelerated Replacement**; Bid No. **K-19-1846-DBB-3**; in the amount of **two million five hundred fifty five thousand two hundred sixty two dollars and fifty cents (\$2,555,262.50)**, which is comprised of the Base Bid.

IN CONSIDERATION of the payments to be made hereunder and the mutual undertakings of the parties hereto, City and Contractor agree as follows:

1. The following are incorporated into this contract as though fully set forth herein:
  - (a) The attached Faithful Performance and Payment Bonds.
  - (b) The attached Proposal included in the Bid documents by the Contractor.
  - (c) Reference Standards listed in the Instruction to Bidders and the Supplementary Special Provisions (SSP).
  - (d) Phased Funding Schedule Agreement,
  - (e) That certain documents entitled **Hotel Circle CI and AC Accelerated Replacement**, on file in the office of the Public Works Department as Document No **K-19-1846-DBB-3**, as well as all matters referenced therein.
2. The Contractor shall perform and be bound by all the terms and conditions of this contract and in strict conformity therewith shall perform and complete in a good and workmanlike manner **Hotel Circle CI and AC Accelerated Replacement**, Bid Number, **K-19-1846-DBB-3**, San Diego, California.
3. For such performances, the City shall pay to Contractor the amounts set forth at the times and in the manner and with such additions or deductions as are provided for in this contract, and the Contractor shall accept such payment in full satisfaction of all claims incident to such performances.
4. No claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
5. This contract is effective as of the date that the Mayor or designee signs the agreement.



CONTRACT AGREEMENT (continued)

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 **522.3102** authorizing such execution.

THE CITY OF SAN DIEGO

APPROVED AS TO FORM

Mara W. Elliott, City Attorney

By: *Stephen Samara*

By: *Mark M. Morce*

Print Name: Stephen Samara  
Principal Contract Specialist  
Public Works Contracts

Print Name: Mark M. Morce  
Deputy City Attorney

Date: 8/13/2019

Date: 8/14/19

CONTRACTOR

By: *P. M. Henderson*

Print Name: Paul M. Henderson

Title: President

Date: 6-21-19

City of San Diego License No.: B 199500739A

State Contractor's License No.: 393294

DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION NUMBER: 1000008298

## CERTIFICATIONS AND FORMS

**The Bidder, by submitting its electronic bid, 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.**

## **BIDDER'S GENERAL INFORMATION**

To the City of San Diego:

Pursuant to "Notice Inviting Bids", 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 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.

The undersigned bidder(s) further warrants that bidder(s) has thoroughly examined and understands the entire Contract Documents (plans and specifications) and the Bidding Documents therefore, and that by submitting said Bidding Documents as its bid proposal, bidder(s) acknowledges and is bound by the entire Contract Documents, including any addenda issued thereto, as such Contract Documents incorporated by reference in the Bidding Documents.

**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 5-1.3, "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 5-1.2, "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 5-1.4, ("Contractor Standards"), of the project specifications, and that Contractor has complied with those requirements.

I further certify that each of the Contractor's subcontractors 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.



## **CONTRACTOR CERTIFICATION**

---

### **EQUAL PAY ORDINANCE CERTIFICATION**

Contractor shall comply with the Equal Pay Ordinance (EPO) codified in the San Diego Municipal Code (SDMC) at section 22.4801 through 22.4809, unless compliance is not required based on an exception listed in SDMC section 22.4804.

Contractor shall require all of its subcontractors to certify compliance with the EPO in their written subcontracts.

Contractor must post a notice informing its employees of their rights under the EPO in the workplace or job site.

By signing this Contract with the City of San Diego, Contractor acknowledges the EPO requirements and pledges ongoing compliance with the requirements of SDMC Division 48, section 22.4801 et seq., throughout the duration of this Contract.

**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:

Hotel Circle CI and AC Accelerated Replacement  
(Project Title)

as particularly described in said contract and identified as Bid No. **K-19-1846-DBB-3**; SAP No. (WBS/IO/CC) **B-18235**; 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

**LIST OF SUBCONTRACTORS**

**\*\*\* PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY \*\*\* TO BE SUBMITTED IN ELECTRONIC FORMAT ONLY \*\*\* SEE INSTRUCTIONS TO BIDDERS, FOR FURTHER INFORMATION**

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the California Public Contract Code (PCC), the Bidder is to list below the name, address and license number of each Subcontractor who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement, in an amount of or in excess of 0.5% of the Contractor's total Bid. Failure to comply with this requirement may result in the Bid being rejected as non-responsive. The Contractor is to list only one Subcontractor for each portion of the Work. The Bidder's attention is directed to the Special Provisions - Section 3-2, "SELF-PERFORMANCE", which stipulates the percentage of the Work to be performed with the Bidder's own forces. The Bidder is to also list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors for which the Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	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 <sup>Ⓞ</sup>	WHERE CERTIFIED <sup>Ⓢ</sup>	CHECK IF JOINT VENTURE PARTNERSHIP
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____							
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____							

- Ⓞ As appropriate, Bidder 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 |  |         |
- Ⓢ As appropriate, Bidder shall indicate if Subcontractor is certified by:
- |  |        |  |          |
|--|--------|--|----------|
| City of San Diego                                    | CITY   | State of California Department of Transportation | CALTRANS |
| California Public Utilities Commission               | CPUC   |  |          |
| 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 Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.**

**NAMED EQUIPMENT/MATERIAL SUPPLIER LIST**

**\*\*\* PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY \*\*\* TO BE SUBMITTED IN ELECTRONIC FORMAT ONLY \*\*\* SEE INSTRUCTIONS TO BIDDERS FOR FURTHER INFORMATION**

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	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 <sup>①</sup>	WHERE CERTIFIED <sup>②</sup>
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____						
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____						

- ① As appropriate, Bidder 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 |  |         |
- ② As appropriate, Bidder 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   |  |          |
| 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 Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.**

**SUBCONTRACTORS ADDITIVE/DEDUCTIVE ALTERNATE (USE ONLY WHEN ADDITIVE ALTERNATES ARE REQUIRED)**

**\*\*\* PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY \*\*\* TO BE SUBMITTED IN ELECTRONIC FORMAT ONLY \*\*\* SEE INSTRUCTIONS TO BIDDERS, FOR FURTHER INFORMATION**

ADDITIVE/ DEDUCTIVE ALTERNATE	NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACT OR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB <sup>①</sup>	WHERE CERTIFIED <sup>②</sup>	CHECK IF JOINT VENTURE PARTNERSHIP
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____							
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____							

① As appropriate, Bidder 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, Bidder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	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 Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.**

## **ELECTRONICALLY SUBMITTED FORMS**

### **THE FOLLOWING FORMS MUST BE SUBMITTED IN PDF FORMAT WITH BID SUBMISSION**

The following forms are to be completed by the bidder and submitted (uploaded) electronically with the bid in PlanetBids.

- A. BID BOND – See Instructions to Bidders, Bidders Guarantee of Good Faith (Bid Security) for further instructions**
- B. CONTRACTOR’S CERTIFICATION OF PENDING ACTIONS**
- C. MANDATORY DISCLOSURE OF BUSINESS INTERESTS FORM**
- D. SUBCONTRACTOR LISTING (OTHER THAN FIRST TIER)**

**Bids will not be accepted until ALL the above-named forms are submitted as part of the bid submittal**

**BID BOND**

**See Instructions to Bidders, Bidder Guarantee of Good Faith  
(Bid Security)**

KNOW ALL MEN BY THESE PRESENTS,

That KTA Construction, Inc. as Principal, and The Guarantee Company of North America USA as Surety, are held and firmly bound unto The City of San Diego hereinafter called "OWNER," in the sum of **10% OF THE TOTAL BID AMOUNT** for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a Bid to said OWNER to perform the WORK required under the bidding schedule(s) of the OWNER's Contract Documents entitled

Hotel Circle CI & AC Accelerated Replacement, K-19-1846-DBB-3

NOW THEREFORE, if said Principal is awarded a contract by said OWNER and, within the time and in the manner required in the "Notice Inviting Bids" enters into a written Agreement on the form of agreement bound with said Contract Documents, furnishes the required certificates of insurance, and furnishes the required Performance Bond and Payment Bond, then this obligation shall be null and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond by said OWNER and OWNER prevails, said Surety shall pay all costs incurred by said OWNER in such suit, including a reasonable attorney's fee to be fixed by the court.

SIGNED AND SEALED, this 28th day of May, 2019

KTA Construction, Inc. (Principal) (SEAL) The Guarantee Company of North America USA (SEAL) (Surety)

By:  (Signature)

By:  (Signature)  
Janice Martin, Attorney-in-Fact

(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

**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 San Diego }

On MAY 28 2019 before me, Lilia De Loera, Notary Public,  
Date Insert Name of Notary exactly as it appears on the official seal

personally appeared Janice Martin  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(~~##~~) whose name(~~##~~) is/~~###~~ subscribed to the within instrument and acknowledged to me that ~~Y#~~/she/~~Y#~~ executed the same in ~~his~~/her/~~Y#~~ authorized capacity(~~Y#~~), and that by ~~Y#~~/her/~~Y#~~ signature(~~##~~) on the instrument the person(~~##~~), or the entity upon behalf of which the person(~~##~~) acted, executed the instrument.



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

Witness my hand and official seal.

Signature [Handwritten Signature]  
Signature of Notary Public Lilia De Loera

Place Notary Seal Above

**OPTIONAL**

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of the form to another 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: \_\_\_\_\_

- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_



Signer is Representing:  
Surety Company

Signer's Name: \_\_\_\_\_

- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_



Signer is Representing:  
\_\_\_\_\_  
\_\_\_\_\_





The Guarantee Company of North America USA  
Southfield, Michigan

POWER OF ATTORNEY

KNOW ALL BY THESE PRESENTS: That THE GUARANTEE COMPANY OF NORTH AMERICA USA, a corporation organized and existing under the laws of the State of Michigan, having its principal office in Southfield, Michigan, does hereby constitute and appoint

Lawrence F. McMahon, Maria Vhannaesa Guise, Sarah Myers, James D. Castle, Janice Martin  
Alliant Insurance Services, Inc.

its true and lawful attorney(s)-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise.

The execution of such instrument(s) in pursuance of these presents, shall be as binding upon THE GUARANTEE COMPANY OF NORTH AMERICA USA as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at the principal office.

The Power of Attorney is executed and may be certified so, and may be revoked, pursuant to and by authority of Article IX, Section 9.03 of the By-Laws adopted by the Board of Directors of THE GUARANTEE COMPANY OF NORTH AMERICA USA at a meeting held on the 31st day of December, 2003. The President, or any Vice President, acting with any Secretary or Assistant Secretary, shall have power and authority:

- 1. To appoint Attorney(s)-in-fact, and to authorize them to execute on behalf of the Company, and attach the Seal of the Company thereto, bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof; and
2. To revoke, at any time, any such Attorney-in-fact and revoke the authority given, except as provided below
3. In connection with obligations in favor of the Florida Department of Transportation only, it is agreed that the power and authority hereby given to the Attorney-in-Fact includes any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts required by the State of Florida Department of Transportation. It is fully understood that consenting to the State of Florida Department of Transportation making payment of the final estimate to the Contractor and/or its assignee, shall not relieve this surety company of any of its obligations under its bond.
4. In connection with obligations in favor of the Kentucky Department of Highways only, it is agreed that the power and authority hereby given to the Attorney-in-Fact cannot be modified or revoked unless prior written personal notice of such intent has been given to the Commissioner - Department of Highways of the Commonwealth of Kentucky at least thirty (30) days prior to the modification or revocation.

Further, this Power of Attorney is signed and sealed by facsimile pursuant to resolution of the Board of Directors of the Company adopted at a meeting duly called and held on the 6th day of December 2011, of which the following is a true excerpt:

RESOLVED that the signature of any authorized officer and the seal of the Company may be affixed by facsimile to any Power of Attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, contracts of indemnity and other writings obligatory in the nature thereof, and such signature and seal when so used shall have the same force and effect as though manually affixed.



IN WITNESS WHEREOF, THE GUARANTEE COMPANY OF NORTH AMERICA USA has caused this instrument to be signed and its corporate seal to be affixed by its authorized officer, this 2nd day of October, 2015.

THE GUARANTEE COMPANY OF NORTH AMERICA USA

[Signature of Stephen C. Ruschak]

[Signature of Randall Musselman]

STATE OF MICHIGAN  
County of Oakland

Stephen C. Ruschak, President & Chief Operating Officer

Randall Musselman, Secretary

On this 2nd day of October, 2015 before me came the individuals who executed the preceding instrument, to me personally known, and being by me duly sworn, said that each is the herein described and authorized officer of The Guarantee Company of North America USA; that the seal affixed to said instrument is the Corporate Seal of said Company; that the Corporate Seal and each signature were duly affixed by order of the Board of Directors of said company.



Cynthia A. Takai  
Notary Public, State of Michigan  
County of Oakland  
My Commission Expires February 27, 2024  
Acting in Oakland County

IN WITNESS WHEREOF, I have hereunto set my hand at The Guarantee Company of North America USA offices the day and year above written.

[Signature of Cynthia A. Takai]

I, Randall Musselman, Secretary of THE GUARANTEE COMPANY OF NORTH AMERICA USA, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney executed by THE GUARANTEE COMPANY OF NORTH AMERICA USA, which is still in full force and effect.



IN WITNESS WHEREOF, I have thereunto set my hand and attached the seal of said Company this 28th day of May, 2019

[Signature of Randall Musselman]

Randall Musselman, Secretary



## Mandatory Disclosure of Business Interests Form

### BIDDER/PROPOSER INFORMATION

Legal Name KTA Construction Inc.	DBA		
Street Address 821 Tavern Rd.	City Alpine	State CA	Zip 91901
Contact Person, Title Paul M. Henderson	Phone (619) 562-9464	Fax (619) 562-1685	

Provide the name, identity, and precise nature of the interest\* of all persons who are directly or indirectly involved\*\* in this proposed transaction (SDMC § 21.0103).

\* The precise nature of the interest includes:

- the percentage ownership interest in a party to the transaction,
- the percentage ownership interest in any firm, corporation, or partnership that will receive funds from the transaction,
- the value of any financial interest in the transaction,
- any contingent interest in the transaction and the value of such interest should the contingency be satisfied, and
- any philanthropic, scientific, artistic, or property interest in the transaction.

\*\* Directly or indirectly involved means pursuing the transaction by:

- communicating or negotiating with City officers or employees,
- submitting or preparing applications, bids, proposals or other documents for purposes of contracting with the City, or
- directing or supervising the actions of persons engaged in the above activity.

Name Adam Ogden	Title/Position Estimator/Project Manager
City and State of Residence San Diego, CA	Employer (if different than Bidder/Proposer)
Interest in the transaction Estimating	

Name	Title/Position
City and State of Residence	Employer (if different than Bidder/Proposer)
Interest in the transaction	

### \* Use Additional Pages if Necessary \*

Under penalty of perjury under the laws of the State of California, I certify that I am responsible for the completeness and accuracy of the responses contained herein, and that all information provided is true, full and complete to the best of my knowledge and belief. I agree to provide written notice to the Mayor or Designee within five (5) business days if, at any time, I learn that any portion of this Mandatory Disclosure of Business Interests Form requires an updated response. Failure to timely provide the Mayor or Designee with written notice is grounds for Contract termination.

Paul Henderson / President		05/30/2019
Print Name, Title	Signature	Date

**Failure to sign and submit this form with the bid/proposal shall make the bid/proposal non-responsive. In the case of an informal solicitation, the contract will not be awarded unless a signed and completed Mandatory Disclosure of Business Interests Form is submitted.**

**SUBCONTRACTOR LISTING**

**(OTHER THAN FIRST TIER)**

Pursuant to California Senate Bill 96 and in accordance with the requirements of Labor Code sections 1771.1 and 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 California Department of Industrial Relations (DIR). **The Bidder is to list below the name, address, license number, DIR registration number of any (known tiered subcontractor)** - who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement pursuant to the contract. **If none are known at this time, mark the table below with non-applicable (N/A).**

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	DIR REGISTRATION NUMBER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK
Name: <u>N/A</u> Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____				
Name: <u>N/A</u> Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____				
Name: <u>N/A</u> Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____				
Name: <u>N/A</u> Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____				

**\*\* USE ADDITIONAL FORMS AS NECESSARY \*\***



**A. CHANGES TO CONTRACT DOCUMENTS**

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

THE SUBMITTAL DATE FOR THIS PROJECT HAS BEEN **EXTENDED AS STATED ON THE COVER PAGE.**

James Nagelvoort, Director  
Public Works Department

Dated: *April 23, 2019*  
San Diego, California

JN/RP/ig



**ENGINEER OF WORKS**

The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Engineer:

Marc Weinberger

1) Registered Engineer

05/20/19

Date

Seal:



Brian Vitell

2) For City Engineer

5/20/19

Date

Seal:





## **A. CHANGES TO CONTRACT DOCUMENTS**

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

## **B. BIDDER'S QUESTIONS**

- Q1. The specs are clear that grouting is required outside the casing, but regarding the annular void between the carrier pipe and casing there is a conflict in materials. Section 02340 1.1 A, sand, cellular concrete, or grout may be used. Is it up to the contractor to decide which material should be used to fill the annular voids?
- A1. Grout per technical spec 02320, found under Appendix J.
- Q2. On Sheet 4-D (profile), the note at Station 1+49.54 reads PVC to Steel transition, begin 18" steel casing. Is this a typo? Please Clarify.
- A2. Begin 36" casing, no transition needed, see revision on plans, page 6 of this Addendum.
- Q3. On Sheet 5-D under Retirements – (4 EA) FH's, Bid Item No. 42 gives only 1 EA. These existing FH removals do not appear to be a Remove and Replace as per Bid Item 43 because they are not within the same trench limits. Please clarify.
- A3. Total quantity of FH removals has been revised in this Addendum.
- Q4. Regarding Bid Item 44 - Fire Service Connection and Assembly, are these New Fire Services, New Fire Hydrants or Re-connects and could you give Locator Stationing for clarification?
- A4. These are new Fire service Connections and Assembly, see revised plans for locations. Total quantity of Fire service Connections and Assembly has been revised in this Addendum.
- Q5. On Sheet 5-D, there is conflict (around) Sta. 11+00. Note 10 indicates a New FH assembly Sta. 10+87.71 and 16" AHD indicates a removal of the existing FH. Is the note supposed to read 16 feet ahead? Please Clarify.
- A5. Yes, plans should read "16' AHD". See revisions on plans, page 7 of this Addendum.

Q6. Sheet 5-D, Note 11 indicates the removal of the existing FH at 6" AHD, is this supposed to read 6 feet ahead? Please Clarify.

A6. Yes, plans should read "6' AHD" See revisions on plans, page 7 of this Addendum.

**C. ADDITIONAL CHANGES**

1. The following are additional changes to the Line Items in the PlanetBids Tab:

For clarity where applicable, **ADDITIONS**, if any, have been **Underlined** and **DELETIONS**, if any, have been **Stricken out**.

Section	Item Code	Description	UoM	Quantity	Payment Reference
Main Bid	237110	Removal of Existing Fire Hydrant Assembly and Marker (6 inch)	EA	<u>5</u> <del>4</del>	306-15.6
Main Bid	237110	Fire Service Connection and Assembly (6 inch)	EA	<u>3</u> <del>04</del>	306-15.6

**D. PLANS**

1. To Drawings Numbered 41025-1-D, 41025-4-D, 41025-5-D and 41025-6-D **DELETE** in their entirety and **REPLACE** with pages 5 through 8 in this Addendum.

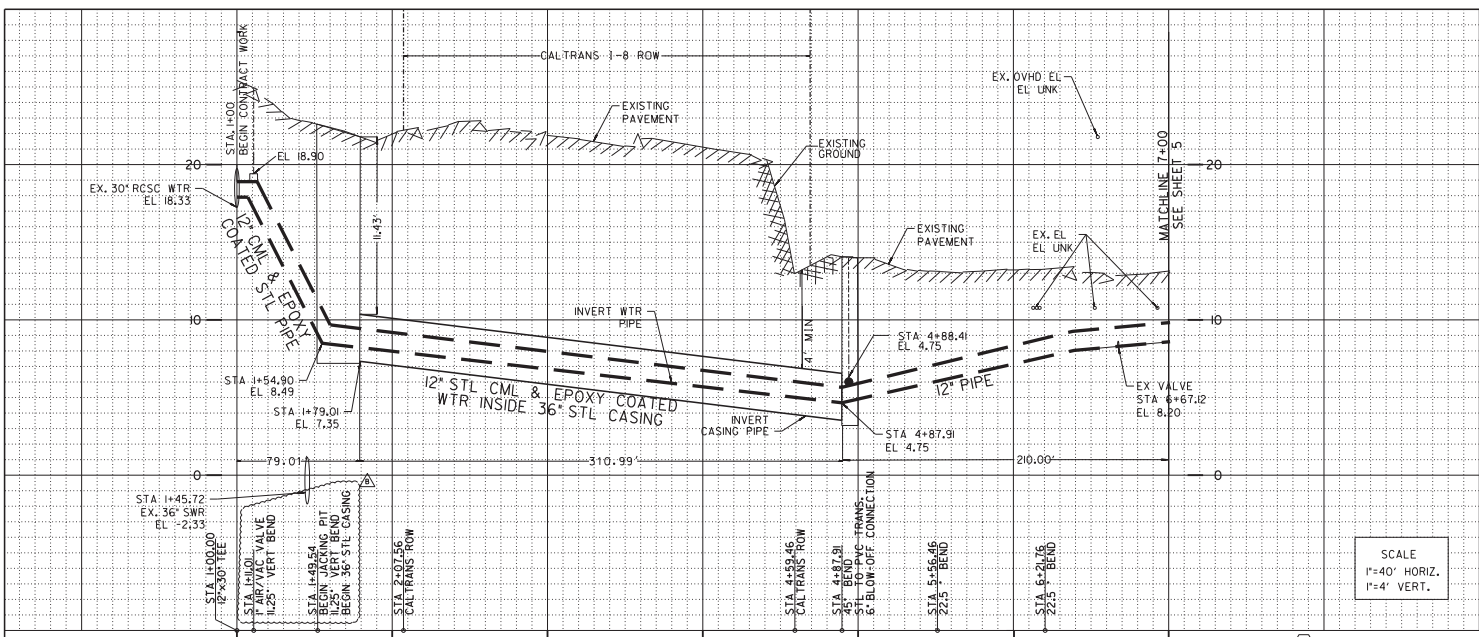
James Nagelvoort, Director  
Public Works Department

Dated: *May 21, 2019*  
San Diego, California

JN/RP/ig



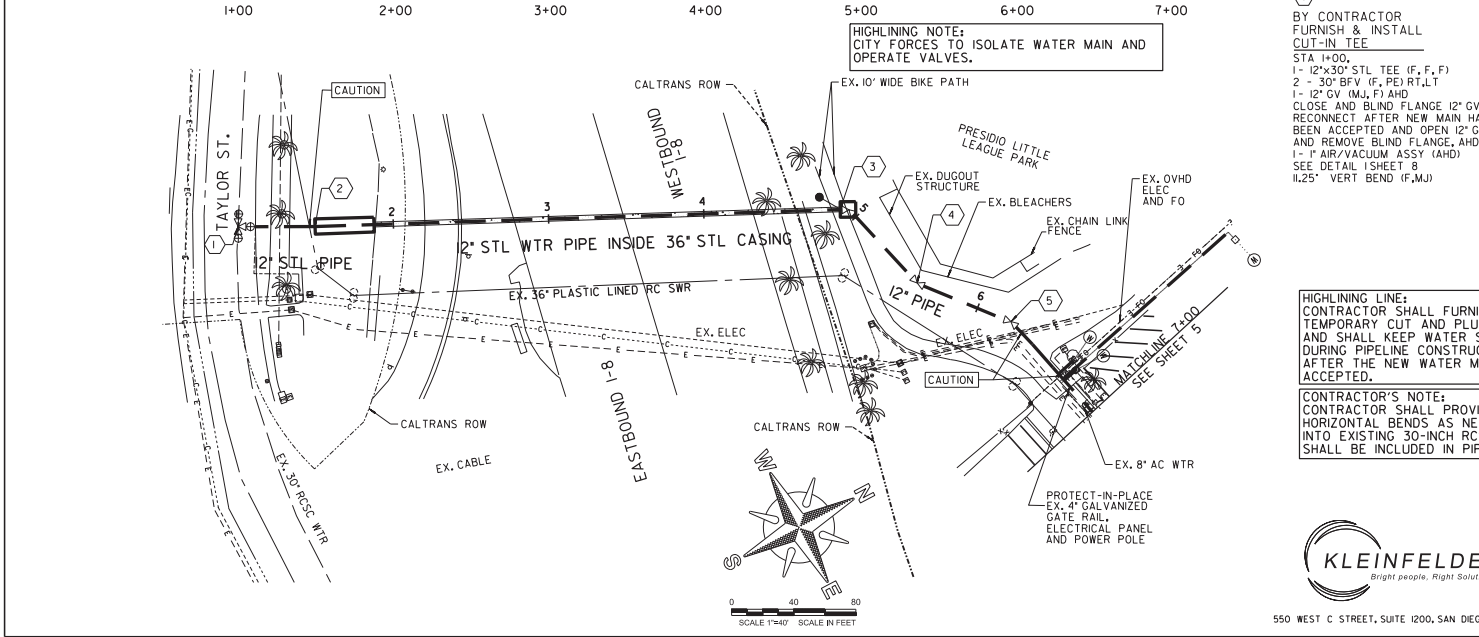
PERMIT NUMBER I-8-1111-0953  
 CO. 50, RTE. 8, PW. 20, BULL. 53  
 AS-BUILT PLAN FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND FEATURES  
 STATE REPRESENTATIVE DATE \_\_\_\_\_  
 PLAN SET \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_



POINT ELEMENT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)
9	POB 1+00.00	1857427.24	6272390.20
	STRAIGHT	49.54	N 27° 42' 14.15" E
10	PI 1+49.54	1857471.00	6272413.23
	STRAIGHT	338.37	N 25° 51' 55.46" E
11	PI 4+87.91	1857775.57	6272560.84
	STRAIGHT	5.54	N 29° 18' 46.59" E
12	PI 4+93.45	1857780.40	6272563.56
	STRAIGHT	64.55	N 74° 42' 45.93" E
13	PI 5+57.99	1857791.42	6272625.82
	STRAIGHT	65.32	N 50° 05' 37.30" E
14	PI 6+23.31	1857839.33	6272675.92
	STRAIGHT	125.93	N 75° 47' 56.62" E

CONTRACTOR'S NOTES:  
 1. GROUNDWATER ENCOUNTERED AT TIME OF SUBSURFACE INVESTIGATION, DEWATERING IS ANTICIPATED FOR TRENCHLESS INSTALLATION OF PIPE.  
 2. EXISTING EUG TO BE PROTECTED IN PLACE @ STA 6+31 FROM PROPOSED 12" PVC WATER PIPE.  
 3. EXISTING EUG TO BE PROTECTED IN PLACE @ STA 6+69.4 FROM PROPOSED 12" PVC WATER PIPE.  
 4. EXISTING BERM AT CALTRANS PARK-N-RIDE TO BE PROTECTED IN PLACE FROM JACKING PIT.  
 5. CONTRACTOR TO VERIFY LOCATION AND QUANTITY OF EXISTING WATER SERVICE LATERALS BEFORE REPLACING.

SCALE  
 1"=40' HORIZ.  
 1"=4' VERT.



HIGHLIGHTING NOTE:  
 CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

- 1 BY CONTRACTOR FURNISH & INSTALL CUT-IN TEE  
 STA 1+00,  
 1 - 12"x30" STL TEE (F, F, F)  
 2 - 30" BVV (F, PE) RT, LT  
 1 - 12" GV (M, F) AND  
 CLOSE AND BLIND FLANGE 12" GV, AND RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED AND OPEN 12" GV AND REMOVE BLIND FLANGE, AND 1 - 1" AIR/VACUUM ASSY (AHD) SEE DETAIL 1 SHEET 8
- 2 BY CONTRACTOR FURNISH & INSTALL  
 STA 1+49.53  
 BEGIN 38"x10" JACKING PIT
- 3 BY CONTRACTOR FURNISH & INSTALL  
 STA 4+87.91  
 BEGIN 10"x10" RECEIVING PIT  
 6" BLOW-OFF CONNECTION  
 SEE DETAIL 3 SHEET 9  
 1 - 12" 45° BEND RT (M, F)  
 1 - 12" STL TO PVC TRANS COUPLING AHD (F, M, J)  
 SEE DETAIL 4 SHEET 9  
 RESTORE BIKE BATH IN-KIND  
 SEE SHEET 11
- 4 BY CONTRACTOR FURNISH & INSTALL  
 STA 5+57.99  
 22.5" BEND (M, M, M)
- 5 BY CONTRACTOR FURNISH & INSTALL  
 STA 6+23.31  
 22.5" BEND (M, M, M)

RETIREMENTS:  
 8" - AC WTR - 40'5" - 1960  
 1" SERVICE - 2 - COPPER - YEAR UNK  
 SUMMARY:  
 12" STL - 390 LF  
 36" STL - 310 LF  
 12" PVC - 212 LF  
 30" STL - 32 LF  
 REFERENCE:  
 WATER: 7772, 32317, 16842-6-D  
 SEWER: 32317, 5680  
 STORM DRAIN: 102229-5-D  
 FIELD BOOK: NONE

HIGHLIGHTING LINE:  
 CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.

CONTRACTOR'S NOTE:  
 CONTRACTOR SHALL PROVIDE VERTICAL AND HORIZONTAL BENDS AS NEEDED TO FIELD FIT INTO EXISTING 30-INCH RCSC PIPELINE. COST SHALL BE INCLUDED IN PIPELINE COSTS.

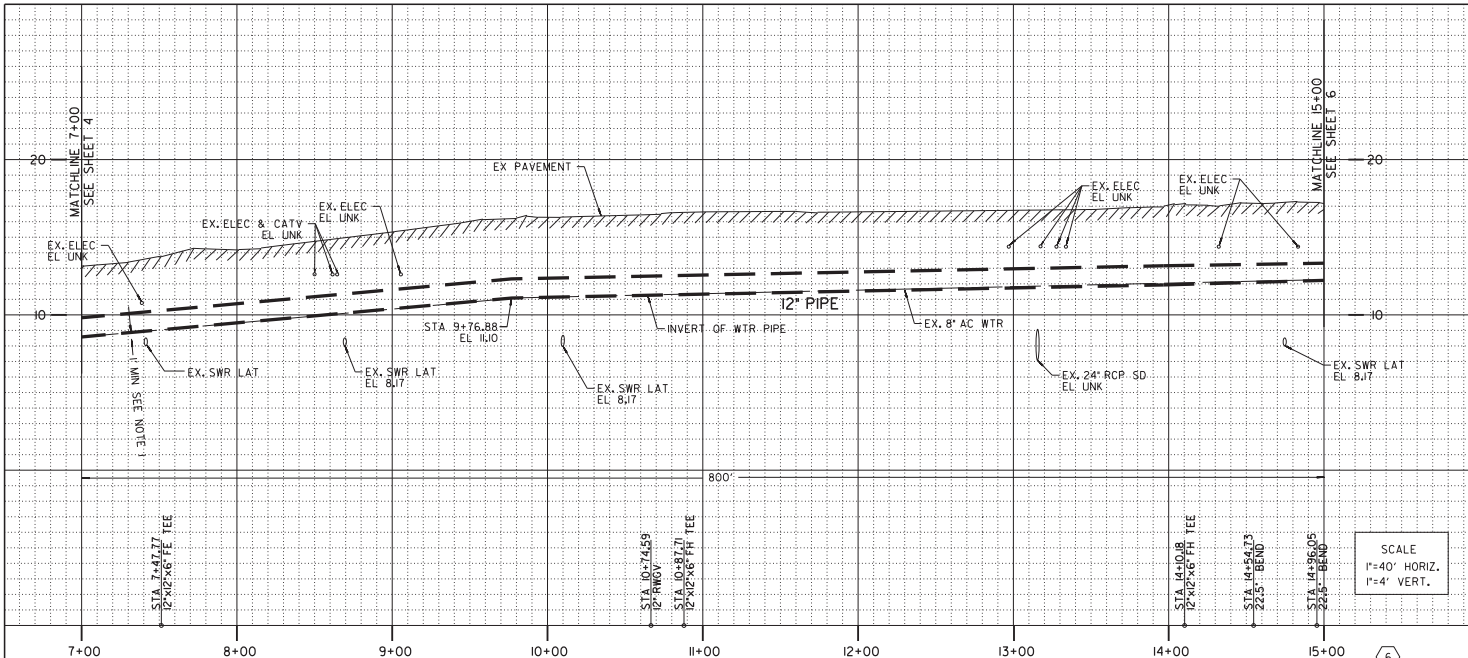
**C-1**  
 HOTEL CIRCLE CI AND AC ACCELERATED REPLACEMENT  
 I-8 AND HOTEL CIRCLE PLACE  
 TAYLOR ST TO HOTEL CIRCLE PLACE N



550 WEST C STREET, SUITE 1200, SAN DIEGO, CA 92101

SPEC NO.		CITY OF SAN DIEGO CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 4 OF 15 SHEETS		WBS <u>B-18235</u>	
DATE: <u>1/14/2018</u>		DATE: <u>1/14/2018</u>		DATE: <u>1/14/2018</u>	
DRAWN BY: <u>ROY GANTON</u>		CHECKED BY: <u>ROY GANTON</u>		PROJECT NUMBER: <u>214-1707</u>	
APPROVED BY: <u>ROY GANTON</u>		DATE: <u>1/14/2018</u>		PROJECT NUMBER: <u>1854-6267</u>	
CONTRACTOR: <u>KLEINFELDER</u>		DATE STARTED: _____		PROJECT NUMBER: <u>41025-4-D</u>	
INSPECTOR: _____		DATE COMPLETED: _____		PROJECT NUMBER: _____	

**ADDENDUM B**

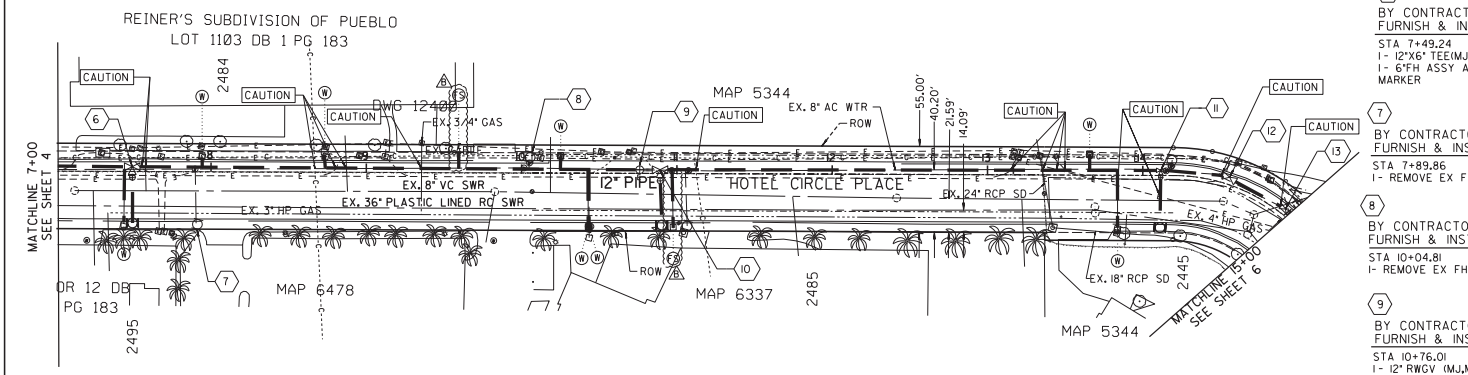


POINT ELEMENT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)
15	7+49.24	1857870.22	6272798.00
16	7+89.86	1857880.13	6272837.39
17	10+04.81	1857932.78	6273045.80
18	10+76.01	1857950.23	6273134.82
19	10+89.16	1857953.57	6273217.55
20	14+11.63	1858034.05	6273439.81
21	14+56.19	1858040.90	6273483.83
22	14+97.56	1858029.99	6273523.74

**CONTRACTOR'S NOTES:**

- WHERE A 1' MIN VERTICAL CLEARANCE BETWEEN PROPOSED AND EXISTING UTILITIES CANNOT BE ACCOMPLISHED, USE A 6" MINIMUM SAND CUSHION WITH 1" NEOPRENE PAD.
- EXISTING EUG TO BE PROTECTED IN PLACE @ STA 7+8 FROM PROPOSED 12" PVC WATER PIPE.
- EXISTING EUG TO BE PROTECTED IN PLACE @ STA 7+52 FROM PROPOSED 12" PVC WATER PIPE.
- EXISTING EUG TO BE PROTECTED IN PLACE @ STA 8+78 FROM PROPOSED 12" PVC WATER PIPE.
- EXISTING EUG TO BE PROTECTED IN PLACE @ STA 9+17 FROM PROPOSED 12" PVC WATER PIPE.
- EXISTING EUG TO BE PROTECTED IN PLACE @ STA 13+13 FROM PROPOSED 12" PVC WATER PIPE.
- EXISTING EUG TO BE PROTECTED IN PLACE @ STA 13+48 FROM PROPOSED 12" PVC WATER PIPE.
- EXISTING EUG TO BE PROTECTED IN PLACE @ STA 14+49 FROM PROPOSED 12" PVC WATER PIPE.
- EXISTING EUG TO BE PROTECTED IN PLACE @ STA 14+95 FROM PROPOSED 12" PVC WATER PIPE.
- EXISTING 3/4" STL GAS SERVICE TO BE PROTECTED IN PLACE @ STA 9+18 FROM PROPOSED 12" PVC WATER PIPE.

SCALE  
1"=40' HORIZ.  
1"=4' VERT.



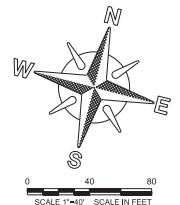
- 6 BY CONTRACTOR FURNISH & INSTALL  
STA 7+49.24  
1- 12"x6" TEEM(M,J,F)  
1- 6"FH ASSY AND MARKER
  - 7 BY CONTRACTOR FURNISH & INSTALL  
STA 10+89.16  
1- 12"x6" TEEM(M,J,F)  
1- 6"FH ASSY AND MARKER
  - 8 BY CONTRACTOR FURNISH & INSTALL  
STA 10+04.81  
1- REMOVE EX FH
  - 9 BY CONTRACTOR FURNISH & INSTALL  
STA 10+76.01  
1- 12" RWG (M,J,M)
  - 10 BY CONTRACTOR FURNISH & INSTALL  
STA 14+89.16  
1- 12"x6" TEEM(M,J,F)  
1- 6"FH ASSY AND MARKER
  - 11 BY CONTRACTOR FURNISH & INSTALL  
STA 14+11.63  
1- 12"x6" TEEM(M,J,F)  
1- 6"FH ASSY AND MARKER
  - 12 BY CONTRACTOR FURNISH & INSTALL  
STA 14+56.19  
22.5' BEND (M,J,M)
- RETIREMENTS:**  
8" - AC WTR - 800' - 1960  
6" SERVICE - 7 UNIT  
FIRE SERVICE - 2 UNIT
- SUMMARY:**  
12" PVC - 800 LF
- REFERENCE:**  
WATER: 1441, 32317  
SEWER: 32317, 5679  
STORM DRAIN: 1849-2-D, 11342-2-D  
FIELD BOOK: NONE

**CONTRACTOR'S NOTE:**  
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

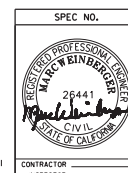
**CAUTION**  
EX 3" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDC&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDC&E STANDBY REQUIRED

**HIGHLINING NOTE:**  
CITY FORCES TO ISOLATE WATER MAIN AND OPERATE VALVES.

**HIGHLINING LINE:**  
CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CUT AND PLUG ON EX WATER MAIN AND SHALL KEEP WATER SERVICES IN SERVICE DURING PIPELINE CONSTRUCTION. RECONNECT AFTER THE NEW WATER MAIN HAS BEEN ACCEPTED.



550 WEST C STREET, SUITE 1200, SAN DIEGO, CA 92101



<b>C-2</b> HOTEL CIRCLE CI AND AC ACCELERATED REPLACEMENT HOTEL CIRCLE PLACE STA 7+00 TO STA 15+00	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 5 OF 15 SHEETS	WBS # B-18235 DATE: 10/12/2018 DRAWN BY: GABRIEL TORRES CHECKED BY: ROY CANTON PROJECT NUMBER: 214-1707 CDS&E COORDINATOR: 1854-6267 CDS&E COORDINATOR:
CONTRACTOR: [Signature] INSPECTOR: [Signature]	DATE STARTED: [ ] DATE COMPLETED: 41025-5-D

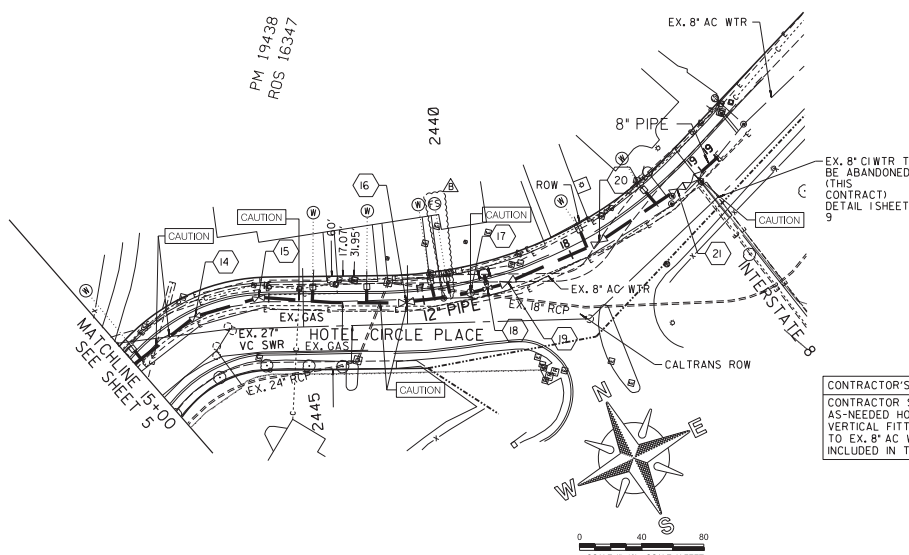
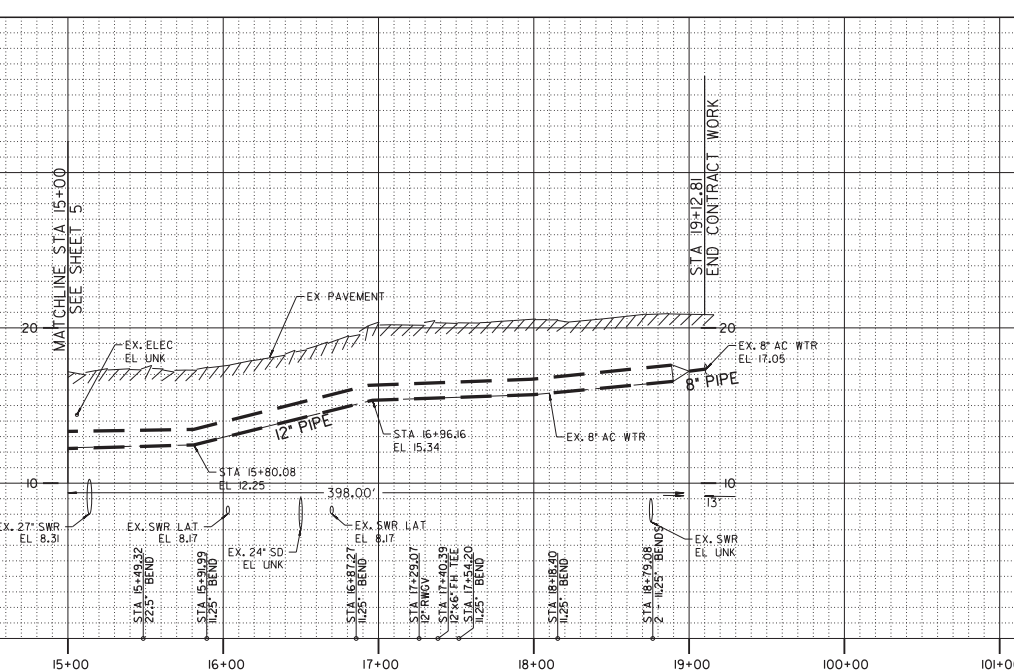
**ADDENDUM B**

PERMIT NUMBER 148-NUL-0953  
 CO. SD. RTE. & PW. 20.811-183  
 AS-BUILT PLAN FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND FEATURES  
 STATE REPRESENTATIVE DATE \_\_\_\_\_  
 PLAN SET \_\_\_\_\_ PAGE \_\_\_\_ OF \_\_\_\_

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)
23	PI 15+50.76	1857997.37	6273565.77
		STRAIGHT 42.61	S 30° 40' 20.07" E
24	PI 15+93.43	1857960.67	6273587.54
		STRAIGHT 95.14	S 1° 50' 59.41" E
25	PI 16+88.57	1857867.56	6273607.07
		STRAIGHT 41.67	S 23° 03' 43.49" E
26	PI 17+30.24	1857829.22	6273623.40
		STRAIGHT 11.73	S 27° 50' 32.75" E
27	PI 17+41.97	1857818.84	6273628.88
		STRAIGHT 13.68	S 30° 20' 11.52" E
28	PI 17+55.65	1857807.04	6273635.78
		STRAIGHT 64.20	S 37° 47' 24.34" E
29	PI 18+19.85	1857756.31	6273675.12
		STRAIGHT 60.68	S 48° 22' 45.25" E
30	PI 18+80.53	1857716.00	6273720.48
		STRAIGHT 32.27	S 52° 05' 30.62" E
31	POE 19+12.80	1857696.18	6273745.95

CONTRACTOR'S NOTES:  
 1. WHERE A 1" MIN VERTICAL CLEARANCE BETWEEN PROPOSED AND EXISTING UTILITIES CANNOT BE ACCOMPLISHED, USE A 6" MINIMUM SAND CUSHION WITH 1" NEOPRENE PAD.  
 2. EXISTING EUC TO BE PROTECTED IN PLACE @ STA 15+22 FROM PROPOSED 12" PVC WATER PIPE.  
 GAS  
 3. EXISTING 3" STL GAS MAIN TO BE PROTECTED IN PLACE @ STA 19+00 FROM PROPOSED 12" PVC WATER PIPE.

SCALE  
 1"=40' HORIZ.  
 1"=4' VERT.



CONTRACTOR'S NOTE  
 CONTRACTOR SHALL PROVIDE AS-NEEDED HORIZONTAL AND VERTICAL FITTINGS TO CONNECT TO EX. 8" AC WTR. THESE SHALL BE INCLUDED IN THE PIPELINE COSTS.

- 14 BY CONTRACTOR FURNISH & INSTALL  
 STA 15+50.76  
 1- 12" 22.5 BEND (M,J,M)
- 15 BY CONTRACTOR FURNISH & INSTALL  
 STA 15+93.43  
 12" - 22.5" BEND (M,J,M)
- 16 BY CONTRACTOR FURNISH & INSTALL  
 STA 16+88.57  
 1- 12" 11.25" BEND (M,J,M)
- 17 BY CONTRACTOR FURNISH & INSTALL  
 STA 17+41.97  
 1- 12"x6" TEE (M,J,M,L,F)  
 1- 6" FH ASSY AND MARKER
- 18 BY CONTRACTOR FURNISH & INSTALL  
 STA 17+55.65  
 12" - 11.25" BEND (M,J,M)
- 19 BY CONTRACTOR FURNISH & INSTALL  
 STA 18+19.85  
 12" - 11.25" BEND (M,J,M)
- 20 BY CONTRACTOR FURNISH & INSTALL  
 STA 18+80.53  
 8" BK REMOVE EX. FH
- 21 BY CITY FORCES AHD OF CONTRACTOR  
 CUT AND PLUG EX 8" AC WTR, 13' AHD (OR AT NEAREST JOINT)  
 RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED

RETIREMENTS:  
 8" AC WTR - 41' - 1960  
 1" SERVICE - 7' - UNK MATL - UNK YEAR  
 1" FS - 1 UNIT  
 FH 12 PORT - 1

SUMMARY:  
 12" PVC - 398 LF  
 8" PVC - 13 LF

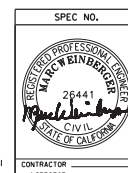
REFERENCE:  
 WATER: 1441  
 SEWER: 5678  
 STORM DRAIN: 11342-1-D, 11342-2-D  
 FIELD BOOK: NONE

C-3

HOTEL CIRCLE CI AND AC ACCELERATED REPLACEMENT  
 HOTEL CIRCLE PLACE  
 STA 15+00 TO STA 19+10

CITY OF SAN DIEGO CALIFORNIA  
 PUBLIC WORKS DEPARTMENT  
 SHEET 6 OF 15 SHEETS

DATE: 04/06/2015  
 DRAWN BY: GABRIEL TORRES  
 CHECKED BY: ROY GANTON  
 PROJECT NUMBER: 214-1707  
 COST CODE: 1854-6267  
 DATE STARTED: 4/10/15  
 DATE COMPLETED: 4/10/15



550 WEST C STREET, SUITE 1200, SAN DIEGO, CA 92101

ADDENDUM B

**Bid Results**

**Bidder Details**

**Vendor Name** KTA Construction, Inc.  
**Address** 821 Tavern Rd.  
 Alpine, CA 91901  
 United States

**Respondee** Mike Henderson  
**Respondee Title** President  
**Phone** 619-562-9464 Ext.  
**Email** adam@ktaconstruction.com

**Vendor Type** PQUAL,CADIR,Local  
**License #** 398284  
**CADIR** 1000008298

**Bid Detail**

**Bid Format** Electronic  
**Submitted** May 30, 2019 1:56:56 PM (Pacific)  
**Delivery Method**  
**Bid Responsive**  
**Bid Status** Submitted  
**Confirmation #** 180244  
**Ranking** 0

**Respondee Comment**

**Buyer Comment**

**Attachments**

File Title	File Name	File Type
Certification of Pending Actions	Contractor's Certification of Pending Actions.pdf	CONTRACTOR'S CERTIFICATION OF PENDING ACTIONS
Disclosure of Business Interests	Mandatory Disclosure of Business Interests Form.pdf	MANDATORY DISCLOSURE OF BUSINESS INTERESTS FORM
Subcontractor Listings other than First Tier	Subcontractor Listing (other than first tier).pdf	SUBCONTRACTOR LISTING (OTHER THAN FIRST TIER)
Subcontractor Add Ded Form	Subcontractors Additive Deductive Form.pdf	SUBCONTRACTORS ADDITIVE/DEDUCTIVE ALTERNATE FORM
Bid Bond	Bid Bond.pdf	Bid Bond

**Line Items**

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
	<b>Main Bid</b>					
1	Bonds (Payment and Performance)					
	524126	LS	1	\$23,000.00	\$23,000.00	
2	Caltrans Encroachment Permit (EOC Type I)					
	237310	AL	1	\$30,000.00	\$30,000.00	

**Bid Results**

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
3	Dewatering Permit and Discharge Fees (EOC Type I)					
	237110	AL	1	\$7,500.00	\$7,500.00	
4	Dewatering Non-Hazardous Contaminated Water					
	237110	LS	1	\$160,000.00	\$160,000.00	
5	Specialty Inspection Paid For By the Contractor					
	237110	LS	1	\$38,000.00	\$38,000.00	
6	Exclusive Community Liaison Services					
	541820	LS	1	\$25,000.00	\$25,000.00	
7	Preparation of Hazardous Waste Management Plan and Reporting					
	238990	LS	1	\$6,000.00	\$6,000.00	
8	Monitoring of Contaminated Soil					
	541690	HR	20	\$120.00	\$2,400.00	
9	Testing, Sampling, Site Storage, and Handling of Petroleum Contaminated Soil					
	238990	TON	3	\$500.00	\$1,500.00	
10	Loading, Transportation, and Disposal of Petroleum Contaminated Soil					
	238990	TON	3	\$750.00	\$2,250.00	
11	Water Main by Jacking Operation with Steel Casing ( 12 Inch, 36 inch casing) (Interstate I-8)					
	237110	LF	310	\$2,100.00	\$651,000.00	
12	Mobilization					
	237110	LS	1	\$73,500.00	\$73,500.00	
13	Field Orders (EOC Type II)					
		AL	1	\$180,000.00	\$180,000.00	
14	Excavate and Export (Unclassified)					
	237310	CY	24	\$100.00	\$2,400.00	
15	Asphalt Pavement Repair					
	237310	TON	30	\$525.00	\$15,750.00	
16	Crushed Aggregate Base					
	238910	TON	200	\$125.00	\$25,000.00	
17	Rubber Polymer Modified Slurry (RPMS) Type II					
	237310	SF	13561	\$2.50	\$33,902.50	
18	Rubber Polymer Modified Slurry (RPMS) Type III					
	237310	SF	13561	\$2.50	\$33,902.50	



**Bid Results**

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
19	Rubber Polymer Modified Slurry (RPMS) Type I (Bike Lane)					
	237310	SF	2004	\$6.00	\$12,024.00	
20	Pavement Restoration Adjacent to Trench					
	237310	SF	1450	\$13.00	\$18,850.00	
21	Asphalt Concrete Overlay					
	237310	TON	1050	\$135.00	\$141,750.00	
22	Asphalt Concrete ½ Inch Leveling Course					
	237310	TON	175	\$200.00	\$35,000.00	
23	Pavement Fabric					
	237310	SY	5944	\$4.00	\$23,776.00	
24	Curb and Gutter (SDG-151)					
	237310	LF	30	\$120.00	\$3,600.00	
25	Replace Existing Driveway with Standard Sidewalk					
	237310	SF	135	\$25.00	\$3,375.00	
26	Remove and Replace Existing Sidewalk					
	237310	SF	172	\$20.00	\$3,440.00	
27	Curb Ramp (Type A ) with Detectable Warning Tiles					
	237310	EA	1	\$5,500.00	\$5,500.00	
28	Curb Ramp (Type B ) with Detectable Warning Tiles					
	237310	EA	2	\$5,500.00	\$11,000.00	
29	Curb Ramp (Type C1 ) with Detectable Warning Tiles					
	237310	EA	1	\$5,500.00	\$5,500.00	
30	Abandon and Fill Existing Water Main Outside of the Trench Limit					
	237110	LF	967	\$10.00	\$9,670.00	
31	Handling and Disposal of Non-friable Asbestos Material					
	237110	LF	1485	\$8.00	\$11,880.00	
32	Additional Bedding					
	237110	CY	46.5	\$125.00	\$5,812.50	
33	Water Main (8 Inch, Class 235) PVC					
	237110	LF	65	\$140.00	\$9,100.00	
34	Water Main (12 Inch, Class 235) PVC					
	237110	LF	1390	\$150.00	\$208,500.00	

**Bid Results**

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
35	Water Main (16 Inch, Class 235) PVC 237110	LF	45	\$300.00	\$13,500.00	
36	Water Main (12 Inch) STL CML Epoxy 237110	LF	80	\$450.00	\$36,000.00	
37	Water Main (30 Inch) Steel CML & Epoxy Coated 237110	LF	96	\$600.00	\$57,600.00	
38	Butterfly Valve (16 Inch, Class 250B) 237110	EA	2	\$4,500.00	\$9,000.00	
39	Butterfly Valve (30 Inch, Class 150B) 237110	EA	6	\$19,000.00	\$114,000.00	
40	Gate Valve (8 Inch) RWGV 237110	EA	4	\$2,000.00	\$8,000.00	
41	Gate Valve (12 Inch) RWGV 237110	EA	4	\$3,200.00	\$12,800.00	
42	Removal of Existing Fire Hydrant Assembly and Marker ( 6 Inch) 237110	EA	5	\$1,500.00	\$7,500.00	
43	Fire Hydrant Assembly and Marker ( 6 Inch) 237110	EA	4	\$10,000.00	\$40,000.00	
44	Fire Service Connection and Assembly ( _6_ Inch) 237110	EA	3	\$16,000.00	\$48,000.00	
45	Water Service (1 Inch) 237110	EA	20	\$2,200.00	\$44,000.00	
46	Water Service (2 Inch) 237110	EA	5	\$3,600.00	\$18,000.00	
47	Water Service (8 Inch) 237110	EA	1	\$5,500.00	\$5,500.00	
48	Blow-Off Valve Assembly (6 Inch) 237110	EA	1	\$4,800.00	\$4,800.00	
49	Removal of Existing Blow-Off Valve Assembly (3 Inch) 237110	EA	1	\$600.00	\$600.00	
50	Air and Vacuum (Air Release) Valve Assembly (1 Inch, Class 250) 237110	EA	1	\$3,900.00	\$3,900.00	

**Bid Results**

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
51	Temporary Resurfacing					
	237310	TON	97	\$135.00	\$13,095.00	
52	Thrust Blocks and Anchor Blocks for 16 Inch and Larger Water Mains					
	237110	EA	2	\$3,000.00	\$6,000.00	
53	Imported Trench Backfill					
	237110	TON	500	\$5.00	\$2,500.00	
54	Removal and Replacement of Existing Paint Striping					
	237310	LS	1	\$5,000.00	\$5,000.00	
55	Removal and Replacement of Existing Thermoplastic Striping and Markings					
	237310	LS	1	\$5,000.00	\$5,000.00	
56	Video Recording of Existing Conditions					
	238990	LS	1	\$2,000.00	\$2,000.00	
57	Adjust Existing Manhole Frame and Cover to Grade					
	237310	EA	13	\$750.00	\$9,750.00	
58	Adjust Existing Gate Valve Frame and Cover to Grade					
	237310	EA	1	\$750.00	\$750.00	
59	Adjust Existing Survey Monument to Grade					
	237310	EA	1	\$2,500.00	\$2,500.00	
60	Cold Mill Full Width AC Pavement (>1-1/2 - 3 inch)					
	237310	SF	47800	\$0.70	\$33,460.00	
61	Protective Railing at Curb Ramps (SDG-140)					
	237310	EA	1	\$5,000.00	\$5,000.00	
62	Pedestrian Barricade (SDG-141)					
	237310	EA	5	\$900.00	\$4,500.00	
63	Install Traffic Sign On Post					
	238210	EA	1	\$600.00	\$600.00	
64	Pavement Restoration for Final Connection					
	237110	SF	3275	\$11.00	\$36,025.00	
65	Cut-in-Tee by Contractor 30 x 12 inch (includes all works and materials per note 1, sheet C-1)					
	237110	EA	1	\$52,000.00	\$52,000.00	
66	Cut-in-Tee by Contractor 30 x 16 inch (includes all works and materials per note 22, sheet C-4)					
	237110	EA	1	\$53,000.00	\$53,000.00	

**Bid Results**

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
67	Cut-in-Cross by Contractor 30 x 16 inch (includes all works and materials per note 24, sheet C-4)					
	237110	EA	1	\$55,000.00	\$55,000.00	
68	WPCP Development					
	541330	LS	1	\$1,000.00	\$1,000.00	
69	WPCP Implementation					
	237110	LS	1	\$25,000.00	\$25,000.00	
<b>Subtotal</b>					<b>\$2,555,262.50</b>	
<b>Alternate Items A</b>						
70	Furnished Materials for Contractor High-line Work					
	237110	LF	3000	\$4.00	\$12,000.00	
71	High-lining Installation by the Contractor					
	237110	LF	3000	\$12.00	\$36,000.00	
72	High-lining Removed by the Contractor					
	237110	LF	3000	\$4.00	\$12,000.00	
<b>Subtotal</b>					<b>\$60,000.00</b>	
<b>Alternate Items B</b>						
73	Cut and Plug by Contractor (8 inch through 12 inch)					
	237110	EA	13	\$5,000.00	\$65,000.00	
74	Connections to The Existing System by Contractor (8 Inch through 12 Inch)					
	237110	EA	4	\$4,800.00	\$19,200.00	
<b>Subtotal</b>					<b>\$84,200.00</b>	
<b>Total</b>					<b>\$2,699,462.50</b>	

**Subcontractors**

Name & Address	Description	License Num	CADIR	Amount	Type
<b>TL Scanlan Construction, Inc.</b> 2308 Shaylene Way Alpine, CA 91901 United States	Base Paving, Class II Base, and Dewatering	1008991	1000036079	\$241,904.50	SLBE
<b>Soclaris Contracting</b> 7437 Lowell Ct. La Mesa, CA 91942 United States	Contaminated Soil	793838	1000011964	\$9,550.00	CADIR,CAU,DVBE,MALE,SDVSB,SLBE
<b>Vic Salazar Communications</b> 5205 Kearny Villa Road Suite 107 San Diego, CA 92123 United States	Community Liaison	N/A	1000364796	\$20,000.00	DBE,ELBE,LAT,MAL E,MBE
<b>American Asphalt South, Inc.</b> PO Box 310036 14436 Santa Ana Ave Fontana, CA 92331 United States	Slurry Seal	784969	1000000645	\$65,916.55	CAU,MALE,CADIR,P QUAL
<b>YBS CONCRETE INC.</b> PO BOX 1197 CHULA VISTA, CA 91908 United States	Concrete Flatwork	885270	1000005182	\$27,232.00	CADIR,LAT,MALE,SLBE
<b>Quality Construction &amp; Engineering inc.</b> 11956 Bernardo Plaza Drive #133	AC Paving	1005282	1000026419	\$230,269.80	SLBE,CADIR,SDB,P QUAL

**Bid Results**

<b>Name &amp; Address</b>	<b>Description</b>	<b>License Num</b>	<b>CADIR</b>	<b>Amount</b>	<b>Type</b>
<b>McGrath Consulting</b> PO BOX 2488 El Cajon, CA 92021 United States	WPCP and QSP Monitoring	N/A	1000037165	\$3,075.00	ELBE,CADIR
<b>California Auger Boring</b> 3040 E. Coronado St. Anaheim, CA 92806 United States	Jack and Bore	926950	1000004248	\$326,634.60	
<b>Griffin Dewatering Corporation</b> 7000 Jurupa Ave. Riverside, CA 92504 United States	Dewatering	1008718	1000033023	\$36,400.00	
<b>Rick Post Welding &amp; Wet Tapping</b> 3863 Sumac Summit Fallbrook, CA 92028 United States	Welding	687814	1000041564	\$38,400.00	CADIR
<b>Payco Specialties, Inc.</b> 120 North Second Ave Chula Vista, CA 91910-1127 United States	Striping and Pedestrian Barricades	298637	1000003515	\$12,625.00	DBE, WBE
<b>KD Inspection and Testing</b> 2500 Hoover Ave Suite E San Diego, CA 91950 United States	Special Inspection	N/A	1000027659	\$30,740.00	CAU,MALE,CADIR

Line Totals (Unit Price * Quantity)								
Item Num	Section	Item Code	Description	Reference	Unit of Measure	Quantity	KTA Construction, Inc. - Unit Price	KTA Construction, Inc. - Line Total
1	Main Bid	524126	Bonds (Payment and Performance)	1-7.2.1	LS	1	\$23,000.00	\$23,000.00
2	Main Bid	237310	Caltrans Encroachment Permit (EOC Type I)	2-2.3	AL	1	\$30,000.00	\$30,000.00
3	Main Bid	237110	Dewatering Permit and Discharge Fees (EOC Type I)	3-12.8.8	AL	1	\$7,500.00	\$7,500.00
4	Main Bid	237110	Dewatering Non-Hazardous Contaminated Water	3-12.8.8	LS	1	\$160,000.00	\$160,000.00
5	Main Bid	237110	Specialty Inspection Paid For By the Contractor	4-3.4.1	LS	1	\$38,000.00	\$38,000.00
6	Main Bid	541820	Exclusive Community Liaison Services	5-10.4	LS	1	\$25,000.00	\$25,000.00
7	Main Bid	238990	Preparation of Hazardous Waste Management Plan and Reporting	5-15.17	LS	1	\$6,000.00	\$6,000.00
8	Main Bid	541690	Monitoring of Contaminated Soil	5-15.17	HR	20	\$120.00	\$2,400.00

9	Main Bid	238990	Testing, Sampling, Site Storage, and Handling of Petroleum Contaminated Soil	5-15.17	TON	3	\$500.00	\$1,500.00
10	Main Bid	238990	Loading, Transportation, and Disposal of Petroleum Contaminated Soil	5-15.17	TON	3	\$750.00	\$2,250.00
11	Main Bid	237110	Water Main by Jacking Operation with Steel Casing ( 12 Inch, 36 inch casing) (Interstate I-8)	7-3.1	LF	310	\$2,100.00	\$651,000.00
12	Main Bid	237110	Mobilization	7-3.4.1	LS	1	\$73,500.00	\$73,500.00
13	Main Bid		Field Orders (EOC Type II)	7-3.9	AL	1	\$180,000.00	\$180,000.00
14	Main Bid	237310	Excavate and Export (Unclassified)	300-2.9	CY	24	\$100.00	\$2,400.00
15	Main Bid	237310	Asphalt Pavement Repair	301-1.7	TON	30	\$525.00	\$15,750.00
16	Main Bid	238910	Crushed Aggregate Base	301-2.4	TON	200	\$125.00	\$25,000.00
17	Main Bid	237310	Rubber Polymer Modified Slurry (RPMS) Type II	302-4.12.4	SF	13561	\$2.50	\$33,902.50
18	Main Bid	237310	Rubber Polymer Modified Slurry (RPMS) Type III	302-4.12.4	SF	13561	\$2.50	\$33,902.50

19	Main Bid	237310	Rubber Polymer Modified Slurry (RPMS) Type I (Bike Lane)	302-4.12.4	SF	2004	\$6.00	\$12,024.00
20	Main Bid	237310	Pavement Restoration Adjacent to Trench	302-5.2.1	SF	1450	\$13.00	\$18,850.00
21	Main Bid	237310	Asphalt Concrete Overlay	302-5.9	TON	1050	\$135.00	\$141,750.00
22	Main Bid	237310	Asphalt Concrete ½ Inch Leveling Course	302-7.4	TON	175	\$200.00	\$35,000.00
23	Main Bid	237310	Pavement Fabric	302-7.4	SY	5944	\$4.00	\$23,776.00
24	Main Bid	237310	Curb and Gutter (SDG-151)	303-5.9	LF	30	\$120.00	\$3,600.00
25	Main Bid	237310	Replace Existing Driveway with Standard Sidewalk	303-5.9	SF	135	\$25.00	\$3,375.00
26	Main Bid	237310	Remove and Replace Existing Sidewalk	303-5.9	SF	172	\$20.00	\$3,440.00
27	Main Bid	237310	Curb Ramp (Type A ) with Detectable Warning Tiles	303-5.10.2	EA	1	\$5,500.00	\$5,500.00
28	Main Bid	237310	Curb Ramp (Type B ) with Detectable Warning Tiles	303-5.10.2	EA	2	\$5,500.00	\$11,000.00
29	Main Bid	237310	Curb Ramp (Type C1 ) with Detectable Warning Tiles	303-5.10.2	EA	1	\$5,500.00	\$5,500.00



30	Main Bid	237110	Abandon and Fill Existing Water Main Outside of the Trench Limit	306-3.3.4	LF	967	\$10.00	\$9,670.00
31	Main Bid	237110	Handling and Disposal of Non-friable Asbestos Material	306-3.3.5.5	LF	1485	\$8.00	\$11,880.00
32	Main Bid	237110	Additional Bedding	306-15.1	CY	46.5	\$125.00	\$5,812.50
33	Main Bid	237110	Water Main (8 Inch, Class 235) PVC	306-15.1	LF	65	\$140.00	\$9,100.00
34	Main Bid	237110	Water Main (12 Inch, Class 235) PVC	306-15.1	LF	1390	\$150.00	\$208,500.00
35	Main Bid	237110	Water Main (16 Inch, Class 235) PVC	306-15.1	LF	45	\$300.00	\$13,500.00
36	Main Bid	237110	Water Main (12 Inch) STL CML Epoxy	306-15.1	LF	80	\$450.00	\$36,000.00
37	Main Bid	237110	Water Main (30 Inch) Steel CML & Epoxy Coated	306-15.1	LF	96	\$600.00	\$57,600.00
38	Main Bid	237110	Butterfly Valve (16 Inch, Class 250B)	306-15.5	EA	2	\$4,500.00	\$9,000.00
39	Main Bid	237110	Butterfly Valve (30 Inch, Class 150B)	306-15.5	EA	6	\$19,000.00	\$114,000.00
40	Main Bid	237110	Gate Valve (8 Inch) RWGV	306-15.5	EA	4	\$2,000.00	\$8,000.00

41	Main Bid	237110	Gate Valve (12 Inch) RWGV	<b>306-15.5</b>	EA	4	\$3,200.00	\$12,800.00
42	Main Bid	237110	Removal of Existing Fire Hydrant Assembly and Marker ( 6 Inch)	<b>306-15.6</b>	EA	5	\$1,500.00	\$7,500.00
43	Main Bid	237110	Fire Hydrant Assembly and Marker ( 6 Inch)	<b>306-15.6</b>	EA	4	\$10,000.00	\$40,000.00
44	Main Bid	237110	Fire Service Connection and Assembly ( _6_ Inch)	<b>306-15.6</b>	EA	3	\$16,000.00	\$48,000.00
45	Main Bid	237110	Water Service (1 Inch)	<b>306-15.8</b>	EA	20	\$2,200.00	\$44,000.00
46	Main Bid	237110	Water Service (2 Inch)	<b>306-15.8</b>	EA	5	\$3,600.00	\$18,000.00
47	Main Bid	237110	Water Service (8 Inch)	<b>306-15.8</b>	EA	1	\$5,500.00	\$5,500.00
48	Main Bid	237110	Blow-Off Valve Assembly (6 Inch)	<b>306-15.8</b>	EA	1	\$4,800.00	\$4,800.00
49	Main Bid	237110	Removal of Existing Blow-Off Valve Assembly (3 Inch)	<b>306-15.8</b>	EA	1	\$600.00	\$600.00
50	Main Bid	237110	Air and Vacuum (Air Release) Valve Assembly (1 Inch, Class 250)	<b>306-15.8</b>	EA	1	\$3,900.00	\$3,900.00
51	Main Bid	237310	Temporary Resurfacing	<b>306-15.9</b>	TON	97	\$135.00	\$13,095.00

52	Main Bid	237110	Thrust Blocks and Anchor Blocks for 16 Inch and Larger Water Mains	<b>306-15.10</b>	EA	2	\$3,000.00	\$6,000.00
53	Main Bid	237110	Imported Trench Backfill	<b>306-15.11</b>	TON	500	\$5.00	\$2,500.00
54	Main Bid	237310	Removal and Replacement of Existing Paint Striping	<b>314-4.3.7</b>	LS	1	\$5,000.00	\$5,000.00
55	Main Bid	237310	Removal and Replacement of Existing Thermoplastic Striping and Markings	<b>314-4.4.6</b>	LS	1	\$5,000.00	\$5,000.00
56	Main Bid	238990	Video Recording of Existing Conditions	<b>400-1.1.1</b>	LS	1	\$2,000.00	\$2,000.00
57	Main Bid	237310	Adjust Existing Manhole Frame and Cover to Grade	<b>403-5</b>	EA	13	\$750.00	\$9,750.00
58	Main Bid	237310	Adjust Existing Gate Valve Frame and Cover to Grade	<b>403-5</b>	EA	1	\$750.00	\$750.00
59	Main Bid	237310	Adjust Existing Survey Monument to Grade	<b>403-5</b>	EA	1	\$2,500.00	\$2,500.00
60	Main Bid	237310	Cold Mill Full Width AC Pavement (>1-1/2 - 3 inch)	<b>404-12</b>	SF	47800	\$0.70	\$33,460.00

61	Main Bid	237310	Protective Railing at Curb Ramps (SDG-140)	701-2	EA	1	\$5,000.00	\$5,000.00
62	Main Bid	237310	Pedestrian Barricade (SDG-141)	701-2	EA	5	\$900.00	\$4,500.00
63	Main Bid	238210	Install Traffic Sign On Post	701-2	EA	1	\$600.00	\$600.00
64	Main Bid	237110	Pavement Restoration for Final Connection	901-2.5	SF	3275	\$11.00	\$36,025.00
65	Main Bid	237110	Cut-in-Tee by Contractor 30 x 12 inch (includes all works and materials per note 1, sheet C-1)	901-2.5	EA	1	\$52,000.00	\$52,000.00
66	Main Bid	237110	Cut-in-Tee by Contractor 30 x 16 inch (includes all works and materials per note 22, sheet C-4)	901-2.5	EA	1	\$53,000.00	\$53,000.00
67	Main Bid	237110	Cut-in-Cross by Contractor 30 x 16 inch (includes all works and materials per note 24, sheet C-4)	901-2.5	EA	1	\$55,000.00	\$55,000.00
68	Main Bid	541330	WPCP Development	1001-4.2	LS	1	\$1,000.00	\$1,000.00
69	Main Bid	237110	WPCP Implementation	1001-4.2	LS	1	\$25,000.00	\$25,000.00
							Subtotal	\$2,555,262.50

70	Alternate Items A	237110	Furnished Materials for Contractor High-line Work	900-1.9	LF	3000	\$4.00	\$12,000.00
71	Alternate Items A	237110	High-lining Installation by the Contractor	901-1.3	LF	3000	\$12.00	\$36,000.00
72	Alternate Items A	237110	High-lining Removed by the Contractor	901-1.3	LF	3000	\$4.00	\$12,000.00
							Subtotal	\$60,000.00
73	Alternate Items B	237110	Cut and Plug by Contractor (8 inch through 12 inch)	901-2.5	EA	13	\$5,000.00	\$65,000.00
74	Alternate Items B	237110	Connections to The Existing System by Contractor (8 Inch through 12 Inch)	901-2.5	EA	4	\$4,800.00	\$19,200.00
							Subtotal	\$84,200.00
							Total	\$2,699,462.50