

City of San Diego

CONTRACTOR'S NAME: _____
ADDRESS: _____
TELEPHONE NO.: _____ FAX NO.: _____
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BShakiba/NB/LJI

CONTRACT DOCUMENTS



FOR

SEWER AND WATER GROUP 723

VOLUME 1 OF 2

BID NO.: _____ **K-13-5265-DBB-3**
SAP NO. (WBS/IO/CC): _____ **B-00462/B-00050**
CLIENT DEPARTMENT: _____ **2011/2013**
COUNCIL DISTRICT: _____ **2**
PROJECT TYPE: _____ **JA/KB**

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.

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

Carl E. Spier 8-1-12
For City Engineer Date Seal:



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REQUIRED DOCUMENTS SCHEDULE

The Bidder's attention is directed to the City's Municipal Code §22.0807(e), (3)-(5) for important information regarding grounds for debarment for failure to submit required documentation.

The specified Equal Opportunity Contracting Program (EOCP) forms are available for download from the City's web site at: <http://www.sandiego.gov/eoc/forms/index.shtml>

ITEM	WHEN	BY	WHAT
1.	BID DUE DATE/TIME	ALL BIDDERS	Proposal (Bid)
2.	BID DUE DATE/TIME	ALL BIDDERS	Bid Bond
3.	BID DUE DATE/TIME	ALL BIDDERS	Non-collusion Affidavit to be Executed By Bidder and Submitted with Bid under 23 USC 112 and PCC 7106
4.	BID DUE DATE/TIME	ALL BIDDERS	Contractors Certification of Pending Actions
5.	BID DUE DATE/TIME	ALL BIDDERS	Equal Benefits Ordinance Certification of Compliance
6.	BID DUE DATE/TIME	ALL BIDDERS	Form AA35 - List of Subcontractors
7.	BID DUE DATE/TIME	ALL BIDDERS	Form AA40 - Named Equipment/Material Supplier List
8.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTS	ALL BIDDERS	SLBE-ELBE Good Faith Documentations
9.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTS	ALL BIDDERS	Form AA60 – List of Work Made Available
10.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTS	ALL BIDDERS	Proof of Valid DBE-MBE-WBE-DVBE Certification Status e.g., Certs.
11.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Pre-Award Schedule (Phased Funded Contracts Only)
12.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Phased Funding Schedule Agreement
13.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Names of the principle individual owners of the Apparent Low Bidder - In the event the firm is employee owned or publicly held, then the fact should be stated and the names of the firm's principals and officers shall be provided.
14.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	If the Contractor is a Joint Venture, the following information must be submitted: <ul style="list-style-type: none"> o Joint Venture Agreement o Joint Venture License

REQUIRED DOCUMENTS SCHEDULE

ITEM	WHEN	BY	WHAT
15.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Form BB05 - Work Force Report
16.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Agreement
17.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Payment and Performance Bond
18.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Certificates of Insurance and Endorsements
19.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - Drug-Free Workplace
20.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - American with Disabilities Act
21.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractors Standards - Pledge of Compliance
22.	BY 5th OF EACH MONTH	CONTRACTOR	Form CC20 - Monthly Employment Report
23.	BY 5th OF EACH MONTH	CONTRACTOR	Form CC25 - Monthly Invoicing Report
24.	PRIOR TO ACCEPTANCE	CONTRACTOR	Form CC10 - Contract Change Order (CCO)
25.	PRIOR TO ACCEPTANCE	CONTRACTOR	Form CC15 - Final Summary Report
26.	PRIOR TO ACCEPTANCE	CONTRACTOR	Affidavit of Disposal

SPECIAL NOTICE
SMALL LOCAL BUSINESS ENTERPRISES (SLBE)
AND
EMERGING LOCAL BUSINESS ENTERPRISES (ELBE)
PROGRAM

1. **INTRODUCTION.** This contract is subject to the requirements of the SLBE Program as specified in the SLBE-ELBE section of the City’s EOCP Requirements included in The WHITEBOOK.
 - 1.1. The Bidders are required to review The WHITEBOOK and become familiar with the detailed specifications including the required documentation and the submittal schedule as related to SLBE-ELBE program.

2. **AMENDMENTS TO THE CITY’S GENERAL EOCP REQUIREMENTS.**
 - III. **Equal Employment Opportunity Outreach Program (A).** **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - A. Competitive Bids. If a contract is competitively solicited, the Apparent Low Bidder shall submit a *Work Force Report (Form BB05)* or an Equal Employment Opportunity (EEO) Plan, within 10 Working Days after receipt by the Bidder of Contract forms to the City for approval as specified in the Notice of Intent to Award letter from the City.

3. **AMENDMENTS TO THE CITY’S EOCP SLBE-ELBE REQUIREMENTS.**
 - VIII. **Subcontracting Efforts Review and Evaluation (2b).** **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - b) “Make information of forthcoming opportunities available to SLBE-ELBE firms and arrange time for contracts and establish delivery schedules, where requirements permit, in a way that encourages and facilitates participation by SLBE-ELBE firms in the competitive process. This includes posting solicitations for bids or proposals for a minimum of 10 Working Days before the Bid or Proposal due date.”

 - VIII. **Subcontracting Efforts Review and Evaluation (3) and (4).** **DELETE** in its entirety and **SUBSTITUTE** with the following:
 3. Good Faith Effort Documentation Requirements

If the stated SLBE-ELBE subcontractor participation percentages are not met, the Bidder shall submit, within 3 Working Days of the Bid opening, information necessary to establish adequate good faith efforts were taken to meet the contract subcontractor participation percentages. The required documentation includes the following:

A. SLBE-ELBE WRITTEN SOLICITATION REQUIREMENTS

Bidders must solicit SLBE-ELBE firms on the City's approved SLBE-ELBE list. Solicitations for subcontract/vendor work must comply with the following requirements:

1. The solicitation must be project specific, dated and include bid number and project name. *Solicitations must be made to the SLBE-ELBE firms at least 10 business days prior to bid opening.*
 - 1.1. Broadcast solicitation is acceptable.
2. Solicitation must state which items or portions of work the bidder is requesting subcontractor/vendor pricing.
 - 2.1 It is the bidder's responsibility to demonstrate that enough work sufficient to meet the SLBE-ELBE participation percentage was made available to SLBE-ELBE firms. The bidder should make as many items of work available as possible to meet the SLBE-ELBE participation percentage, and at a minimum an amount of work equal to the SLBE-ELBE participation percentage. If necessary to reach the SLBE-ELBE participation percentage, the work should include those items normally performed by the bidder with its own forces, supplies and even items with a dollar value below 1/2 of 1% of the total bid. Bidders shall utilize Form AA60 to demonstrate compliance with this requirement and submit the completed form with Good Faith Effort documentation.
3. Solicitation must state that plans and specs are available at no cost to interested SLBE-ELBE firms and how to obtain them.
4. Solicitations must state that assistance is available from the bidder for SLBE-ELBE firms in obtaining necessary equipment, supplies, or materials.
5. Solicitations must state that assistance is available from the bidder for SLBE-ELBE firms in obtaining bonding, lines of credit or insurance.
6. Bidder must solicit **ALL** City of San Diego Certified SLBE-ELBE firms who have the NAICS code for the subcontractor/vendor work sought by the general contractor.
 - 6.1. Bidders are not required to contact SLBE-ELBE firms that are noted as "General Contractor Only – Does not provide services as a subcontractor" in the PRISM compliance database or on the listing provided on the City website.
7. Bidders must provide copies of **ALL** solicitations with one of the following forms of verification *that the solicitations were sent*: a) If mailed: provide copies of the metered envelopes or certified mail receipts

b) If faxed: provide copies of the fax transmittal confirmation sheet(s) c)
If emailed: provide copies of the email delivery confirmation sheet(s). No credit shall be given for error messages, busy, cancelled, undeliverable, etc.

7.1. When utilizing broadcast method bidder must clearly identify SLBE-ELBE firm on verification documentation submitted with GFE.

B. SLBE-ELBE WRITTEN SOLICITATION FOLLOW UP REQUIREMENTS

Bidders must follow-up with all SLBE – ELBE firms that were notified of the subcontracting/vendor opportunities to determine their level of interest and commitment to bid the project. When following up with the SLBE – ELBE firms, the bidder must do the following:

1. Follow up communications must start no less than 5 business days prior to bid opening.
2. Bidders must make at least three follow-up telephone calls to each SLBE – ELBE firm.
 - 2.1. Bidders are not required to make and/or may stop making follow-up telephone calls once the SLBE-ELBE firm has provided written verification accepting or declining to bid the project. Written verification from SLBE-ELBE firm must be project specific.
 - 2.2. Bidders must provide copy of written verification received from SLBE-ELBE firms with Good Faith Effort documentation.
 - 2.3. Submit a telephone log, as proof of telephone calls, with the following requirements: project name, name of person making the phone call, name of firm contacted, contact person's name, date of call, time of call, and details of conversation.

C. SUBCONTRACT AWARD SUMMARY

Bidders must act in good faith with interested SLBE-ELBE firms and may only reject bids for legitimate business reasons. The bidder must submit the following documentation:

1. A **DETAILED** summary sheet which includes bid item number, scope of work, subcontractor/vendor name, bid amount, certification type, subcontractor/vendor selection and reason for selection / non-selection of all the subcontractors/vendors that responded.
2. Copies of all subcontract/vendor bids received including bids for areas of work that were not included in the outreach and bids from both certified and non-certified subcontractors/vendors. If the Bidder decides to Self-

Perform a scope of work; the Bidder **MUST** submit a detailed bid to show that the Bidder's price is competitive to the price of the subcontractors/vendors that responded to outreach efforts. All verbal bids **MUST** be substantiated by corresponding written bid from subcontractors/vendors.

D. OUTREACH ASSISTANCE REQUIREMENTS

Written notice of subcontractor/vendor opportunities must be forwarded to local organizations or groups to assist with outreach efforts. When contacting local organizations or groups, the Bidder **must do** the following:

1. Contact a minimum of 5 local organizations or groups to provide assistance in contacting, recruiting and using SLBE-ELBE firms by written notice. For a listing of organizations or groups offering assistance, please visit the City of San Diego Equal Opportunity Contracting home page at <http://www.sandiego.gov/eoc/>
2. Written notice must indicate the date of the notice and name of the local organization or group. ***Written notices must be forwarded to the organizations or groups at least 10 business days prior to bid opening.***
3. Written notice must state which items or portions of work the bidder is requesting subcontractor/vendor pricing.
 - 3.1. It is the bidder's responsibility to demonstrate that enough work sufficient to meet the SLBE-ELBE participation percentage was made available to SLBE-ELBE firms. The bidder should make as many items of work available as possible to meet the SLBE-ELBE participation percentage, and at a minimum an amount of work equal to the SLBE-ELBE participation percentage. If necessary to reach the SLBE-ELBE participation percentage, the work should include those items normally performed by the bidder with its own forces, supplies and even items with a dollar value below 1/2 of 1% of the total bid. Bidders shall utilize Form AA60 to demonstrate compliance with this requirement and submit the completed form with Good Faith Effort documentation.
4. Written notice must state that plans and specs are available at no cost to interested SLBE-ELBE firms and how to obtain them.
5. Written notice must state that assistance is available from the bidder for SLBE-ELBE firms in obtaining necessary equipment, supplies, or materials.
6. Written notice must state that assistance is available from the bidder for SLBE-ELBE firms in obtaining bonding, lines of credit or insurance.

7. Bidders must provide copies of **ALL** notices with one of the following forms of verification that the notices were sent: a) If mailed: provide copies of the metered envelopes or certified mail receipts b) If faxed: provide copies of the fax transmittal confirmation sheet(s) c) If emailed: provide copies of the email delivery confirmation sheet(s). No credit shall be given for error messages, busy, cancelled, undeliverable, etc.

XI. Suppliers. Last paragraph, DELETE in its entirety and SUBSTITUTE with the following:

For the purpose of achieving the mandatory subcontractor participation percentage, the City will not account for the Field Orders, Additive or Deductive, and Allowance Bid Items (when shown by the City as Allowance – Type II in the Bid and Proposal forms) in the calculation. Allowance – Type I Bid Items are part of the Base Bid integral to the SOW.

4. SUBCONTRACTING PARTICIPATION PERCENTAGES. The Bidders are encouraged to take positive steps to diversify and expand their subcontractor solicitation base and to offer contracting opportunities to all certified Subcontractors including SLBEs, ELBEs, DBEs, MBEs, WBEs, DVBEs and OBEs.

- 4.1. 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	7.4%
2. ELBE participation	14.9%
3. Total mandatory participation	22.3%

- 4.2. For the purpose of achieving the mandatory subcontractor participation percentage, the City will not account for the Field Orders, Additive or Deductive, and Allowance Bid Items (when shown by the City as Allowance – Type II in the Bid and Proposal forms) in the calculation. Allowance – Type I Bid Items are part of the Base Bid integral to the SOW.

5. PRE-BID CONFERENCE. A Pre-Bid Conference is scheduled for this contract as specified in the Invitation to Bids. The purpose of this meeting is to inform Bidders of the submittal requirements and provisions relative to the SLBE Program. Bidders are strongly encouraged to attend the Pre-Bid Conference to better understand the Good Faith Effort requirements of this contract.

6. MANDATORY CONDITIONS. Bid will be declared **non-responsive** if the Bidder fails the following mandatory conditions.

- 6.1. Bidder's inclusion of SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; **OR**

- 6.2.** Bidder’s submission of Good Faith Effort documentation 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.
- 7. BID DISCOUNT.** This contract **is not** subject to the Bid Discount program as described in The WHITEBOOK, SLBE-ELBE Program Requirements, Section IV(2).
- 8. RESOURCES.** The current list of certified SLBE-ELBE firms can be found on the EOC Department website at <http://www.sandiego.gov/eoc/>

CITY OF SAN DIEGO, CALIFORNIA

INVITATION TO BIDS

1. **RECEIPT AND OPENING OF BIDS:** Bid(s) will be received at the Public Works Contracting Group at **1200 THIRD AVENUE, SUITE 200, SAN DIEGO, CA 92101 UNTIL 2:00 PM on SEPTEMBER 11, 2012** for performing work on the following project (Project):

Sewer and Water Group 723

2. **DESCRIPTION OF WORK:** The Work involves furnishing all labor, materials, equipment, services, and other incidental works and appurtenances for the construction of the Project as described below:

The replacement of approximately 8,173 linear feet of 6" sewer mains, and 1,637 linear feet of 4" and 8" water mains.

The Work shall be performed in accordance with:

- Bid No. **K-13-5265-DBB-3** and Plans numbered **32141-01-D** through **32141-27-D** inclusive.

3. **ENGINEER'S ESTIMATE:** The Engineer's estimate of the most probable price for this contract is **\$3,142,000**.
4. **LOCATION OF WORK:** The location of Work is Citywide unless specified otherwise as follows: Peninsula Community Planning Area, Council District 2. See Appendix D.
5. **CONTRACT TIME:** The Contract Time for completion of the Work shall be **197 Working Days**.
6. **SUPPLEMENTAL AGREEMENTS:** Supplemental agreements attached to this contract for the items of Work such as extended re-vegetation maintenance and monitoring and emulsion aggregate slurry shall be signed upon the request from the Engineer and prior to Acceptance. The signed agreements shall be accompanied by the evidence of separate bond (i.e., labor and materials) and insurance (i.e., Commercial General Liability Insurance, Commercial Automobile Liability Insurance, and Workers' Compensation Insurance) as specified in 2-4, "CONTRACT BONDS," 7-3, "LIABILITY INSURANCE," and 7-4 WORKERS' COMPENSATION INSURANCE. Bonds shall be in amount of the Contract Price for the Work included in the supplemental agreements.
7. **CONTRACTOR'S LICENSE CLASSIFICATION:** In accordance with the provisions of California Law, the Contractor shall possess valid appropriate license(s) at the time that the Bid is submitted. Failure to possess the specified license(s) shall render the Bid as **non-responsive** and shall act as a bar to award of the Contract to any Bidder not possessing required license(s) at the time of Bid.

The City has determined the following licensing classification(s) for this contract:

Option	Classification(s)
1	CLASS A
2	CLASS C-34

The Bidder shall satisfy the licensing requirement by meeting **at least** one of the listed options.

- 8. PRE-BID CONFERENCE:** There will be a Pre-Bid Conference to discuss the scope of the Project, bidding requirements, and Equal Opportunity Contracting Program requirements and reporting procedures in the Public Works Contracting Group, Conference Room at 1200 Third Avenue, Suite 200, San Diego, CA 92101 **at 10:00 AM, on AUGUST 23, 2012.**

All potential bidders are encouraged to attend.

To request a copy of the agenda on an alternative format, or to request a sign language or oral interpreter for this meeting, call the Public Works Contracting Group at (619)236-6000 at least 5 Working Days prior to the Pre-Bid Conference to ensure availability.

9. CITY PROJECT MANAGER CONTACT INFORMATION:

See the cover of the Contract Documents.

- 10. REFERENCE STANDARDS:** Except as otherwise noted or specified, the Work shall be completed in accordance with the following standards:

1. STANDARD SPECIFICATIONS

Document No.	Filed	Description
PITS0504091	05-04-09	Standard Specifications for Public Works Construction (The GREENBOOK), 2009 Edition
PITS090110-1	09-01-10	City of San Diego Standard Specifications for Public Works Construction (The WHITEBOOK), 2010 Update *
AEC1231064	12-31-06	California Department of Transportation, Manual of Uniform Traffic Control Devices (MUTCD 2006)
769023	09-11-84	Standard Federal Equal Employment Opportunity Construction Contract Specifications and the Equal Opportunity Clause

NOTE: The City of San Diego Supplement, 2010 Update now consolidates various City Public Works Construction Standard Specifications which in the past were included in the Supplementary Special Provisions. The Bidders' attention is directed to this edition of the City Supplement for a close review to ensure no important information is missed for the preparation of the Bids.

2. STANDARD DRAWINGS

Document No.	Filed	Description
AEC1230163	12-31-06	City of San Diego Standard Drawings*
N/A	Varies	City Standard Drawings - Updates Approved For Use (when specified)*
AEC0925061	09-25-06	Caltrans 2006 U.S. Customary Unit Standard Plans

NOTE: *Available online under Engineering Documents and References at: <http://www.sandiego.gov/engineering-cip>.

11. WAGE RATES: Prevailing wages are not applicable to this project unless specified otherwise on the cover page of these specifications and when included in these specifications. See Funding Agency Provisions that follow this Invitation to Bid for more information.

12. INSURANCE REQUIREMENTS: Upon receipt of the City’s Notice of Intent to Award letter, the Contractor will be asked to submit all certificates of insurance and endorsements to the City.

Refer to sections 7-3, “LIABILITY INSURANCE”, and 7-4, “WORKERS’ COMPENSATION INSURANCE” of the Supplementary Special Provisions (SSP) for the insurance requirements which must be met.

You must ensure all required insurance certificates and endorsements are submitted accurately and on time. Failure to provide the requisite insurance documents by the date stated in the City’s Notice of Intent to Award will result in delay of contract award and may result in annulment of the contract award or other more severe sanctions as provided in the City’s Municipal Code §22.0807(e),(3)-(5).

13. PHASED FUNDING: The Apparent Low Bidder will be required to provide a Pre-award Schedule in accordance with sections 9-3 and 6-1 of the Supplementary Special Provisions (SSP) prior to award of Contract.

Tony Heinrichs
 Director
 Public Works Department

INSTRUCTIONS TO BIDDERS

- 1. PREQUALIFICATION OF CONTRACTORS:** The contractor(s) who intend to submit Bid or Proposal in response to this invitation to bid, or RFP's for GRC or As-Needed Design-Build Task Orders valued over \$50,000, must be pre-qualified for the total amount proposed, inclusive of all alternate bid items or the specified Task Order limits prior to the date of Bid 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, will be deemed **non-responsive** and ineligible for award or a Task Order authorization. Complete information and prequalification questionnaires are available at:

<http://www.sandiego.gov/engineering-cip/services/consultcontract/prequal.shtml>

The completed questionnaire, financial statement, and bond letter or a copy of the contractor's SLBE-ELBE certification and bond letter, must be submitted no later than 2 weeks prior to the bid opening to the Public Works Department-Engineering & Capital Projects Prequalification Program, 1010 Second Avenue, Suite 1200, San Diego, CA 92101. For additional information or the answer to questions about the prequalification program, please contact David Stucky at 619-533-3474 or dstucky@sandiego.gov.

- 2. CONTRACTOR REGISTRATION:** Prospective bidder(s) as well as existing contractors and suppliers are required to register with the City's EOCP. Refer to 2-17, "CONTRACTOR REGISTRATION" for details.
- 3. CITY'S RESPONSES AND ADDENDA:** The City at its option, may respond to any or all questions submitted in writing, via letter, or FAX in the form of an addendum. No oral comment shall be of any force or effect with respect to this solicitation. The changes to the Contract Documents through addendum are made effective as though originally issued with the Bid. The Bidders shall acknowledge the receipt of Addenda on the form provided for this purpose in the Bid.
- 4. CITY'S RIGHTS RESERVED:** The City reserves the right to cancel the Invitation to 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 Invitation to Bid shall be the sole responsibility of each bidder. The Invitation to Bid creates or imposes no obligation upon the City to enter a contract.
- 5. CONTRACT PRICING FORMAT:** This solicitation is for a Lump Sum contract with Unit Price provisions as set forth in the Bid Proposal Form(s), Volume 2 unless specified otherwise such as as-needed contracts e.g., GRC in the Contract Documents.
- 6. SUBMITTAL OF "OR EQUAL" ITEMS:** See 4-1.6, "Trade Names or Equals."
- 7. AWARD PROCESS:** The Award of this contract is contingent upon the Contractor's compliance with all conditions precedent to Award, including the submittal of acceptable insurance and surety bonds pursuant to San Diego Municipal Code § 22.3007. If the responsible Bid does not exceed the City's engineering estimate, the City will, in most cases, prepare contract documents for execution within 3 weeks of the date of the Bid opening and award the Contract within 5 Working Days of receipt of properly executed Contract, bond, and insurance documents.

This contract is deemed to be awarded, and effective, only upon the signing of the Contract by the Mayor or designee of the City.

- 8. SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 2-3, "SUBCONTRACTS" in The WHITEBOOK (unless amended otherwise in the SSP) which requires the Contractor to perform not less than the amount therein stipulated with its own forces. Failure to comply with these requirements may render the Bid **non-responsive** and ineligible for award.
- 9. AVAILABILITY OF PLANS AND SPECIFICATIONS:** Contract Documents may be obtained by visiting the City's website: <http://www.sandiego.gov/engineering-cip/services/consultcontract/advertising.shtml>. Plans and Specifications for this contract are also available for review in the office of the City Clerk or Public Works Contracting Group.
- 10. QUESTIONS:** The Director (or designee), of the 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. All questions related to this procurement action shall be addressed to the Public Works Contracting Group, Attention Contract Specialist, 1200 Third Avenue, Suite 200, San Diego, California, 92101, and Telephone No. (619) 236-6000.

Questions received less than 14 days prior to the date for opening of Bids may not be answered.

Interpretations or clarifications considered necessary by the City in response to such questions will be issued by Addenda which will be uploaded to the City's online bidding service.

Only questions answered by formal written addenda will be binding. Oral and other interpretations or clarifications will be without legal effect. It is the Bidder's responsibility to become informed of any Addenda that have been issued and to include all such information in its Bid.

- 11. ELIGIBLE BIDDERS:** No person, firm, or corporation shall be allowed to make, file, or be interested in more than 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.
- 12. SAN DIEGO BUSINESS TAX CERTIFICATE:** All Contractors, including Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, first floor, before the Contract can be executed.

13. PROPOSAL FORMS: Bid shall be made only upon the Bidding Documents i.e., Proposal form attached to and forming a part of the specifications. The signature of each person signing shall be in longhand.

The entire specifications for the bid package do not need to be submitted with the bid. Bidder shall complete and submit, only, all pages in the "Bidding Document Schedule" Section (see Volume 2) as their Bid per the schedule given under "Required Documents Schedule," (see Volume 1). Bidder is requested to retain for their reference other portions of the Contract Documents that are not required to be submitted with the Bid.

The City may require any Bidder to furnish a statement of experience, financial responsibility, technical ability, equipment, and references.

Bids and certain other specified forms and documents shall be enclosed in a sealed envelope and shall bear the title of the work and name of the Bidder and the appropriate State Contractors License designation which the Bidder holds.

Bids may be withdrawn by the Bidder prior to, but not after, the time fixed for opening of Bids.

14. BIDDERS' GUARANTEE OF GOOD FAITH (BID SECURITY):

With the exception of the contracts valued \$5,000 or less, GRC and Design-Build contracts, and contracts subject to the Small and Local Business Program of \$250,000 or less e.g., ELBE contracts, each Bidder shall accompany its Bid with either a cashier's check upon some responsible bank, or a check upon such bank properly certified or an approved corporate surety bond payable to the City of San Diego, for an amount of not less than 10% of the aggregate sum of the Bid, which check or bond, and the monies represented thereby shall be held by the City as a guarantee that the Bidder, if awarded the contract, will in good faith enter into such contract and furnish the required final bonds.

The Bidder agrees that in case of Bidder's refusal or failure to execute this contract and give required final bonds, the money represented by a cashier's or certified check shall remain the property of the City, and if the Bidder shall fail to execute this contract, the Surety agrees that it will pay to the City damages which the City may suffer by reason of such failure, not exceeding the sum of 10% of the amount of the Bid.

A Bid received without the specified bid security will be rejected as being **non-responsive**.

15. AWARD OF CONTRACT OR REJECTION OF BIDS:

This contract may be awarded to the lowest responsible and reliable Bidder (for Design-Build contracts refer to the RFP for the selection and award information). Bidders shall complete the entire Bid schedule (e.g., schedule of prices). Incomplete price schedules will be rejected as being **non-responsive**.

The City reserves the right to reject any or all Bids, and to waive any informality or technicality in Bids received and any requirements of these specifications as to bidding procedure.

Bidders will not be released on account of their errors of judgment. Bidders may be released only upon receipt by the City from the Bidder within 3 Working Days, excluding Saturdays, Sundays, and state holidays, after the opening of Bids, of written notice which includes proof of honest,

credible, clerical error of material nature, free from fraud or fraudulent intent, and of evidence that reasonable care was observed in the preparation of the Bid.

A non-selected Bidder may protest award of the Contract to the selected Bidder by submitting a written "Notice of Intent to Protest" including supporting documentation which shall be received by Public Works Contracting Group no later than 10 days after the City's announcement of the selected Bidder or no later than 10 days from the date that the City issues notice of designation of a Bidder as non-responsive in accordance with San Diego Municipal Code Chapter 2, § 22.3029, "Protests of Contract Award."

The City of San Diego will not discriminate with regard to race, religious creed, color, national origin, ancestry, physical handicap, marital status, sex or age, in the award of contracts.

Each Bid package properly executed as required by these specifications shall constitute a firm offer, which may be accepted by the City within the time specified in the Invitation to Bids.

The City reserves the right to evaluate all Bids and determine the lowest Bidder (or winner for Design-Build contracts) on the basis of any proposed alternates, additive items or options, at its discretion.

- 16. BID RESULTS:** The Bid opening by the City shall constitute the public announcement of the Apparent Low Bidder (or Apparent Winner in case of Design-Build contracts). In the event that the Apparent Low Bidder (or Apparent Winner in case of Design-Build contracts) is subsequently deemed non-responsive or non-responsible, a public announcement will be posted in the City's web page, with the name of the newly designated Apparent Low Bidder (or Apparent Winner in case of Design-Build contracts).

To obtain Bid results, either attend Bid opening, review the results on the City's web site, or provide a self-addressed, stamped envelope, referencing Bid number, and Bid tabulation will be mailed to you upon verification of extensions. Due to time constraints, Bid results cannot be given out over the telephone.

- 17. THE CONTRACT:** 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 10 Working Days after receipt by Bidder of a form of contract for execution unless an extension of time is granted to the Bidder in writing.

If the Bidder takes longer than 10 Working 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.

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.

For contracts that are not Design-Build, 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 10 Working 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.

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. 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.

18. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK: The Bidder shall examine carefully the Project Site, the Plans and Specifications, the GRC Unit Price Books if applicable, other materials as described in the Special Provisions, Section 2-7, and the proposal forms (e.g., Bidding Documents) therefore. The submission of a Bid or GRC Task Order Proposal 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.

19. DRUG-FREE WORKPLACE:

a) General:

City projects are subject to City of San Diego Resolution No. R-277952 adopted on May 20, 1991. Bidders shall become aware of the provisions of Council Policy 100-17 which was established by Resolution No. R-277952. The policy applies equally to the Contractor and Subcontractors. The elements of the policy are outlined below.

b) Definitions:

"Drug-free workplace" means a site for the performance of work done in connection with a contract let by City of San Diego for the construction, maintenance, or repair of any facility or public work by an entity at which employees of the entity are prohibited from engaging in the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance in accordance with the requirements of this section.

"Employee" means the employee of a contractor directly engaged in the performance of work pursuant to a contract as described in Section 3, "City Contractor Requirements."

"Controlled substance" means a controlled substance in schedules I through V of Section 202 of the Controlled Substances Act (21 U.S.C. Sec. 812).

"Contractor" means the department, division, or other unit of a person or organization responsible to the contractor for the performance of a portion of the work under the contract.

c) City Contractor Requirements:

Every person or organization awarded a contract or grant by the City of San Diego for the provision of services shall certify to the City that it will provide a drug-free workplace by doing all following:

- a. Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited in the person's organization's workplace and specifying the actions that will be taken against employees for violations of the prohibition.
- b. Establishing a drug-free awareness program to inform employees about all of the following:
 - i. The dangers of drug abuse in the workplace.
 - ii. The person's or organization's policy of maintaining a drug-free workplace.
 - iii. Any available drug counseling, rehabilitation, and employee assistance programs.
 - iv. The penalties that may be imposed upon employees for drug abuse violations.
- c. Posting the statement required by subdivision (1) in a prominent place at contractor's main office. For projects large enough to necessitate a construction trailer at the job site, the required signage would also be posted at the Site.

The Contractor shall include in each subcontract agreement language which indicates the Subcontractor's agreement to abide by the provisions of subdivisions a) through c) above. The Contractors and Subcontractors shall be individually responsible for their own drug-free workplace programs.

Note: The requirements of a drug-free awareness program can be satisfied by periodic tailgate sessions covering the various aspects of drug-abuse education. Although an in-house employee assistance program is not required, contractors should be able to provide a listing of drug rehabilitation and counseling programs available in the community at large.

Questions about the City's Drug-free Workplace Policy shall be referred to the Contract Specialist, Public Works Contracting Group.

20. AMERICANS WITH DISABILITIES ACT:

- a) General: City projects are subject to City of San Diego Resolution No. R-282153 adopted on June 14, 1993. The Bidders shall become aware of the provisions of Council Policy 100-04 which was established by Resolution No. R-282153. The policy applies equally to the Contractor and all Subcontractors. The elements of the policy are outlined below.

b) Definitions:

"Qualified individual with a disability" means an individual with a disability who satisfies the requisite skill, experience, education and other job-related requirements of the employment position such individual holds or desires, and who, with or without reasonable accommodation, can perform the essential functions of such position.

"Employee" means the employee of the Contractor directly engaged in the performance of Work.

c) The City Requirements: Every person or organization entering into a contractual agreement with or receiving a grant from the City of San Diego shall certify to the City of San Diego that it will comply with the ADA by adhering to all of the provisions of the ADA listed below.

- i. The Contractor shall not discriminate against qualified persons with disabilities in any aspects of employment, including recruitment, hiring, promotions, conditions and privileges of employment, training, compensation, benefits, discipline, layoffs, and termination of employment.
- ii. No qualified individual with a disability may be excluded on the basis of disability, from participation in, or be denied the benefits of services, programs, or activities by the Contractor or Subcontractors providing services for the City.
- iii. The Contractor shall post a statement addressing the requirements of the ADA in a prominent place at the worksite. The Contractor shall include in each subcontract agreement, language which indicates the Subcontractor's agreement to abide by the provisions of subdivisions (a) through (c) inclusive of Section 3. The Contractor and Subcontractors shall be individually responsible for their own ADA employment programs. Questions about the City's ADA Policy should be referred to the Contract Administrator.

21. CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE: This contract is subject to City of San Diego Municipal Code §22.3224 as amended 11/24/08 by ordinance O-19808. Bidders shall become aware that the requirements apply to Contractors and Subcontractors for contracts greater than \$50,000 in value.

Upon award, amendment, renewal, or extension of this contract, the Contractors shall complete a Pledge of Compliance attesting under penalty of perjury that they complied with the requirements of this section.

The Contractors shall ensure that their Subcontractors whose subcontracts are greater than \$50,000 in value complete a Pledge of Compliance attesting under penalty of perjury that they complied with the requirements of this section. Subcontractors may access the Pledge of Compliance at:

http://www.sandiego.gov/purchasing/pdf/contractor_standards_questionnaire.pdf.

The Contractors shall include in each subcontract agreement, language which requires Subcontractors to abide by the provisions of City of San Diego Municipal Code §22.3224. A sample provision is as follows:

“Compliance with San Diego Municipal Code §22.3224: Subcontractor acknowledges that it is familiar with the requirements of San Diego Municipal Code §22.3224 (“Contractor Standards”), and agrees to comply with requirements of that section. The Subcontractor further agrees to complete the Pledge of Compliance, incorporated herein by reference.”

- 22. NOTICE OF LABOR COMPLIANCE PROGRAM APPROVAL:** The City of San Diego received initial approval as a Labor Compliance Program on August 11, 2003. The Labor Compliance Program Manual is available at:

<http://www.sandiego.gov/eoc/laborcompliance/#manual>.

The limited exemption from prevailing wages pursuant to Labor Code §1771.5(a) does not apply to contracts under jurisdiction of the Labor Compliance Program. Inquiries, questions, or assistance about the Labor Compliance Program should be directed to: Equal Opportunity Contracting Program, 1200 Third Ave., Suite 200 MS56P, San Diego, CA 92101, Tel. 619-236-6000.

- 23. PAYROLL RECORDS:** The Contractor's attention is directed to the City of San Diego Labor Compliance Program, Section IV, pages 4-7, and the State of California Labor Code §§ 1771.5(b) and 1776 (Stats. 1978, Ch. 1249). These require, in part, that the Contractor and Subcontractors maintain and furnish to the City, at a designated time, a certified copy of each weekly payroll containing a statement of compliance signed under penalty of perjury.

The Contractor and Subcontractors shall submit weekly certified payrolls online via Prism® i.e., the City’s web-based labor compliance program. Instructions on how to use the system will be provided to the Contractor after the award.

The Contractor shall be responsible for the compliance with these provisions by Subcontractors. The City shall withhold contract payments when payroll records are delinquent or inadequate, or when it is established after investigation that underpayment has occurred.

- 24. APPRENTICES ON PUBLIC WORKS:** The Contractor shall abide by the requirements of §§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.

- 25. EQUAL BENEFITS:** This contract is subject to the City’s Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of the San Diego Municipal Code (SDMC).

In accordance with the EBO, Bidders shall certify they will provide and maintain equal benefits as defined in SDMC §22.4302 for the duration of the Contract (SDMC §22.4304(f)). Failure to maintain equal benefits is a material breach of the Contract (SDMC §22.4304(e)). The Contractor shall notify employees of their equal benefits policy at the time of hire and during open enrollment periods and shall post a copy of the following statement in an area frequented by employees:

“During the performance of a contract with the City of San Diego, this employer will provide equal benefits to its employees with spouses and its employees with domestic partners.”

The Contractor shall give the City access to documents and records sufficient for the City to verify the contractors are providing equal benefits and otherwise complying with EBO requirements.

Full text of the EBO and the Rules Implementing the Equal Benefits Ordinance are posted on the City’s website at www.sandiego.gov/purchasing/ or can be requested from the Equal Benefits Program at (619) 533-3948.

26. LIMITED COMPETITION: When designated as restricted competition on the cover page, this contract may only be bid by the Contractors on the approved SLBE-ELBE Construction Contractors List. For information regarding the SLBE-ELBE Construction Program and registration visit the City’s web site: <http://www.sandiego.gov>.

27. PRE-AWARD ACTIVITIES:

Pre-award Submittals - The Apparent Low Bidder (or winner in case of Design-Build contracts) shall provide the information required within the time specified in “Required Documents,” of this bid package. Failure to provide the information within the time specified may result in the Bid being rejected as **non-responsive**.

If the Bid is rejected as non-responsive, the Apparent Low Bidder (or winner in case of Design-Build contracts) shall forfeit the Bid Security required under Invitation to Bids, of this bid package. The decision that the Apparent Low Bidder (or winner in case of Design-Build contracts) is non-responsive for failure to provide the information required within the time specified shall be at the sole discretion of the City.

CONTRACT FORMS AGREEMENT

CONSTRUCTION CONTRACT

This contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and ORTIZ CORPORTATION, herein called "Contractor" for construction of Sewer and Water Group 723; Bid No. K-13-5265-DBB-3; in the amount of ONE MILLION EIGHT HUNDRED NINETY-ONE THOUSAND NINE HUNDRED FOURTEEN DOLLARS AND 39/100 (\$1,891,914.39), 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) That certain documents entitled Sewer and Water Group 723, on file in the office of the City Clerk Document No. _____, as well as all matters referenced therein.
2. 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 Sewer and Water Group 723, Bid Number K-13-5265-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 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 FORMS (continued)
AGREEMENT**

IN WITNESS WHEREOF, this agreement is signed by the City of San Diego, acting by and through its Mayor or designee, pursuant to Resolution No. R - 307122 or Municipal Code § 22-3102 authorizing such execution.

THE CITY OF SAN DIEGO

APPROVED AS TO FORM AND LEGALITY

Jan I. Goldsmith, City Attorney

By 

By 

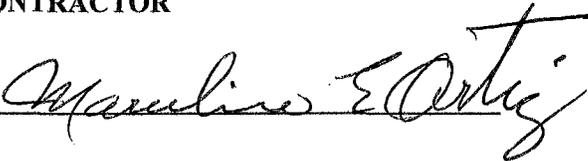
Print Name: Paul D. Chapin
Mayor or designee

Print Name: Pedro De Lara, Jr
Deputy City Attorney

Date: 02/06/13

Date: 2/11/13

CONTRACTOR

By 

Print Name: MARCELINO E. ORTIZ

Title: PRESIDENT

Date: 10/16/2012

City of San Diego License No.: B1996008117

State Contractor's License No.: 602454

CONTRACT FORMS (continued)
PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND

FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:

ORTIZ CORPORATION _____, a corporation, as principal, and _____
International Fidelity Insurance Company _____, a corporation authorized to
do business in the State of California, as Surety, hereby obligate themselves, their successors and
assigns, jointly and severally, to The City of San Diego a municipal corporation in the sum of
**ONE MILLION EIGHT HUNDRED NINETY-ONE THOUSAND NINE HUNDRED
FOURTEEN DOLLARS AND 39/100 (\$1,891,914.39)** for the faithful performance of the annexed
contract, and in the sum of **ONE MILLION EIGHT HUNDRED NINETY-ONE THOUSAND
NINE HUNDRED FOURTEEN DOLLARS AND 39/100 (\$1,891,914.39)** for the benefit of
laborers and materialmen designated below.

Conditions:

If the Principal shall faithfully perform the annexed contract **Sewer and Water Group 723,
Bid Number K-13-5265-DBB-3**, San Diego, California then the obligation herein with respect to a
faithful performance shall be void; otherwise it shall remain in full force.

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

The obligation herein with respect to laborers and materialmen shall inure to the benefit of all
persons, firms and corporations entitled to file claims under the provisions of Chapter 3 of Division 5
of Title I of the Government Code of the State of California or under the provisions of Section 3082
et seq. of the Civil Code of the State of California.

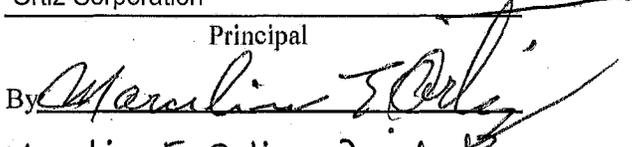
Changes in the terms of the annexed contract or specifications accompanying same or
referred to therein shall not affect the Surety's obligation on this bond, and the Surety hereby waives
notice of same.

CONTRACT FORMS (continued)
PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND

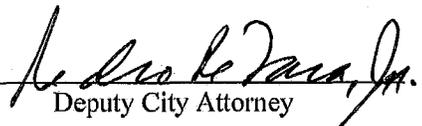
The Surety shall pay reasonable attorney's fees should suit be brought to enforce the provisions of this bond.

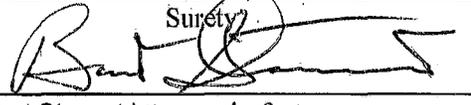
Dated October 16, 2012

Approved as to Form and Legality

Ortiz Corporation
Principal
By 
Marcelino E. Ortiz - President
Printed Name of Person Signing for Principal

Jan I. Goldsmith, City Attorney

By 
Deputy City Attorney

International Fidelity Insurance Company
Surety
By 
Bart Stewart Attorney-in-fact

Approved:


Mayor or Designee

13400 Sabre Springs Parkway, Suite 245
Local Address of Surety
San Diego, CA 92128
Local Address (City, State) of Surety
858.513.1795
Local Telephone No. of Surety
Premium \$ 14,698
Bond No. SDIFSU0591881

POWER OF ATTORNEY

INTERNATIONAL FIDELITY INSURANCE COMPANY ALLEGHENY CASUALTY COMPANY

ONE NEWARK CENTER, 20TH FLOOR NEWARK, NEW JERSEY 07102-5207

KNOW ALL MEN BY THESE PRESENTS: That **INTERNATIONAL FIDELITY INSURANCE COMPANY**, a corporation organized and existing under the laws of the State of New Jersey, and **ALLEGHENY CASUALTY COMPANY**, a corporation organized and existing under the laws of the State of Pennsylvania, having their principal office in the City of Newark, New Jersey, do hereby constitute and appoint

BART STEWART

Encinitas, CA

their 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, and the execution of such instrument(s) in pursuance of these presents, shall be as binding upon the said **INTERNATIONAL FIDELITY INSURANCE COMPANY** and **ALLEGHENY CASUALTY COMPANY**, as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by their regularly elected officers at their principal offices.

This Power of Attorney is executed and may be revoked, pursuant to and by authority of the By-Laws of **INTERNATIONAL FIDELITY INSURANCE COMPANY** and **ALLEGHENY CASUALTY COMPANY** and is granted under and by authority of the following resolution adopted by the Board of Directors of **INTERNATIONAL FIDELITY INSURANCE COMPANY** at a meeting duly held on the 20th day of July, 2010 and by the Board of Directors of **ALLEGHENY CASUALTY COMPANY** at a meeting duly held on the 15th day of August, 2000:

"RESOLVED, that (1) the President, Vice President, or Secretary of the Corporation shall have the power to appoint, and to revoke the appointments of, Attorneys-in-Fact or agents with power and authority as defined or limited in their respective powers of attorney, and to execute on behalf of the Corporation and affix the Corporation's seal thereto; bonds, undertakings, recognizances, contracts of indemnity and other written obligations in the nature thereof or related thereto; and (2) any such Officers of the Corporation may appoint and revoke the appointments of joint-control custodians, agents for acceptance of process, and Attorneys-in-fact with authority to execute waivers and consents on behalf of the Corporation; and (3) the signature of any such Officer of the Corporation and the Corporation's seal may be affixed by facsimile to any power of attorney or certification given for the execution of any bond, undertaking, recognizance, contract of indemnity or other written obligation in the nature thereof or related thereto, such signature and seals when so used whether heretofore or hereafter, being hereby adopted by the Corporation as the original signature of such officer and the original seal of the Corporation, to be valid and binding upon the Corporation with the same force and effect as though manually affixed."

IN WITNESS WHEREOF, **INTERNATIONAL FIDELITY INSURANCE COMPANY** and **ALLEGHENY CASUALTY COMPANY** have each executed and attested these presents on this 12th day of March, 2012.



STATE OF NEW JERSEY
County of Essex

ROBERT W. MINSTER
Executive Vice President/Chief Operating Officer
(International Fidelity Insurance Company)
and President (Allegheny Casualty Company)

On this 12th day of March 2012, before me came the individual who executed the preceding instrument, to me personally known, and, being by me duly sworn, said he is the therein described and authorized officer of **INTERNATIONAL FIDELITY INSURANCE COMPANY** and **ALLEGHENY CASUALTY COMPANY**; that the seals affixed to said instrument are the Corporate Seals of said Companies; that the said Corporate Seals and his signature were duly affixed by order of the Boards of Directors of said Companies.

IN TESTIMONY WHEREOF, I have hereunto set my hand affixed my Official Seal, at the City of Newark, New Jersey the day and year first above written.



A NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Mar. 27, 2014

CERTIFICATION

I, the undersigned officer of **INTERNATIONAL FIDELITY INSURANCE COMPANY** and **ALLEGHENY CASUALTY COMPANY** do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Sections of the By-Laws of said Companies as set forth in said Power of Attorney, with the originals on file in the home office of said companies, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 16th day of October, 2012

MARIA BRANCO, Assistant Secretary

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of San Diego

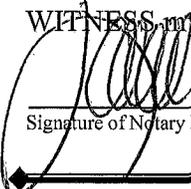
On 10/16/2012 before me, Laura Ashley Aceves, Notary Public
(Here insert name and title of the officer)

personally appeared Bart Stewart

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

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

WITNESS my hand and official seal.


Signature of Notary Public

(Notary Seal)



ADDITIONAL OPTIONAL INFORMATION

INSTRUCTIONS FOR COMPLETING THIS FORM

Any acknowledgment completed in California must contain verbiage exactly as appears above in the notary section or a separate acknowledgment form must be properly completed and attached to that document. The only exception is if a document is to be recorded outside of California. In such instances, any alternative acknowledgment verbiage as may be printed on such a document so long as the verbiage does not require the notary to do something that is illegal for a notary in California (i.e. certifying the authorized capacity of the signer). Please check the document carefully for proper notarial wording and attach this form if required.

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. ~~he~~/~~she~~/~~they~~, is /~~are~~) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
 - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
 - ❖ Indicate title or type of attached document, number of pages and date.
 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document

DESCRIPTION OF THE ATTACHED DOCUMENT

(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages _____ Document Date _____

(Additional information)

CAPACITY CLAIMED BY THE SIGNER

- Individual (s)
 Corporate Officer

(Title)

- Partner(s)
 Attorney-in-Fact
 Trustee(s)
 Other _____

CONTRACTOR CERTIFICATION

DRUG-FREE WORKPLACE

PROJECT TITLE: SEWER AND WATER GROUP 723

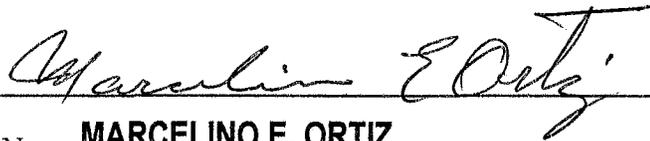
I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-17 regarding Drug-Free Workplace as outlined in INSTRUCTION TO BIDDERS, "Drug-Free Workplace", of the project specifications, and that;

ORTIZ CORPORATION

(Name under which business is conducted)

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.

Signed



Printed Name

MARCELINO E. ORTIZ

Title

PRESIDENT

CONTRACTOR CERTIFICATION

AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

PROJECT TITLE: SEWER AND WATER GROUP 723

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 INSTRUCTION TO BIDDERS, "American With Disabilities Act", of the project specifications, and that;

ORTIZ CORPORATION

(Name under which business is conducted)

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.

Signed



Printed Name

MARCELINO E. ORTIZ

Title

PRESIDENT

CONTRACTOR CERTIFICATION

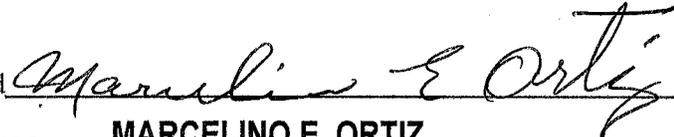
CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

PROJECT TITLE: SEWER AND WATER GROUP 723

I declare under penalty of perjury that I am authorized to make this certification on behalf of ORTIZ CORPORATION, as Contractor, that I am familiar with the requirements of City of San Diego Municipal Code § 22.3224 regarding Contractor Standards as outlined in INSTRUCTION TO BIDDERS ("Contractor Standards"), of the project specifications, and that Contractor has complied with those requirements.

I further certify that each of the Contractor's subcontractors whose subcontracts are greater than \$50,000 in value has completed a Pledge of Compliance attesting under penalty of perjury of having complied with City of San Diego Municipal Code § 22.3224.

Dated this 16TH Day of OCTOBER, 2012.

Signed 
Printed Name MARCELINO E. ORTIZ
Title PRESIDENT

AFFIDAVIT OF DISPOSAL

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

SEWER AND WATER GROUP 723

(Name of Project)

as particularly described in said contract and identified as Bid No. **K-13-5265-DBB-3**; SAP No. (WBS/CC/IO) **B-00462/B-00050**; 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 _____, 2_____.

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

SUPPLEMENTARY SPECIAL PROVISIONS (SSP)

THESE SUPPLEMENTARY SPECIAL PROVISIONS CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE GREENBOOK) CURRENTLY ADOPTED BY THE CITY, INCLUDING ITS CURRENT SUPPLEMENT AMENDMENTS (CITY SUPPLEMENTS INCLUDED IN THE WHITEBOOK), EXCEPT FOR THE FOLLOWING:

STYLE OF SPECIFICATIONS

The City is gradually standardizing the style and language of the standard specifications for the public works construction. The new style and language follows the Federal guidelines for “Plain Language” to the extent possible.

The use of this new style does not change the meaning of a specification not yet using this style. Where used in the Contract Documents, statement or command type phrases (i.e., active voice and imperative mood) refer to and are directed at the Bidder or Contractor as applicable. The specifications are written to the Bidder before award and the Contractor after. Before award, interpret sentences written in the imperative mood as starting with "The Bidder must" and interpret "you" as "the Bidder" and "your" as "the Bidder's." After award, interpret sentences written in the imperative mood as starting with "The Contractor must" and interpret "you" as "the Contractor" and "your" as "the Contractor's." Similarly, interpret "we" and “us” as "the City" and "our" as "the City's.”

PART 1 – GENERAL PROVISIONS

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

1-2 TERMS AND DEFINITIONS.

Agency – ADD the following:

Regulatory activities handled by the City of San Diego Developmental Services, Fire and Planning Departments, or any other City Department are not subject to the responsibilities of the City under this contract.

Certificate of Compliance – To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Certificate of Compliance – A written document signed and submitted by a supplier or manufacturer that certifies that the material or assembled material supplied to the Work site complies with the requirements of the Contract Documents.

Contract Documents – To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

The Agreement, Addendum, Invitation to Bid, Instructions to Bidders, special notice page, funding agency provisions, Bid and documentation accompanying the Bid and any post-bid documentation submitted prior to the Notice of Award when attached as an exhibit to the Contract, Bonds, permits from jurisdictional regulatory agencies, Supplementary Special Provisions (SSP), City’s EOC Requirements, City Supplement, Plans, Standard Plans, Construction Documents, Reference

Specifications listed in the Invitation to Bid or the RFP for Design-Build contracts, Request for Qualifications (RFQ), Statement of Qualifications (SOQ), Request for Proposals (RFP), modifications issued after the execution of the Contract e.g., Change Orders, Construction Manager At Risk's Guaranteed Maximum Price including written qualifications, assumptions and conditions thereto and Pre-construction Services Agreement.

ADD: Limited Notice To Proceed – A written notice given from the City to the Contractor that authorizes the Contractor to start a limited amount of work that is not Construction Work, such as finalizing subcontract agreements, ordering materials, mobilization, furnishing a field office, and any other preliminary work done prior to performing Construction Work.

Normal Working Hours. To the City Supplement, ADD the following:

The Normal Working Hours shall be **8:30 AM to 3:30 PM.**

Notice of Completion (NOC) – ADD the following:

See California Civil Code section 3093.

Samples - Physical examples which illustrate materials, equipment or workmanship and establish standards by which the Work will be evaluated.

SECTION 2 - SCOPE AND CONTROL OF WORK

2-1.2.2 Joint Venture Contractors. To the City Supplement, last paragraph, DELETE in its entirety and SUBSTITUTE with the following:

The Joint Venture shall designate an on-site representative and an alternate in writing. The on-site representative and the alternate shall have the full authority to bind all Joint Venture partners.

The Joint Venture shall provide a copy of the Joint Venture agreement and the Joint Venture license to the City within 10 Working Days after receipt by the Bidder of Contract forms.

2-3.1.2 Subcontractor List. ADD the following:

For Extra Work, the Contractor shall submit Form CC10, "CONTRACT CHANGE ORDER (CCO)" with each CCO proposal. Form CC10 is available for download from the EOCP site at: <http://www.sandiego.gov/eoc/pdf/cc10.pdf>

2-3.2 Self Performance. DELETE in its entirety and SUBSTITUTE with the following:

The Contractor shall perform, with its own organization, Contract work amounting to at least 50 percent of the base bid alone or base bid and any additive or deductive alternate(s) that together when added or deducted form the basis of determining the Apparent Low Bidder as specified. The self performance percentage requirement will be waived for contracts when a "B" License is required or allowed.

2-3.3 Status of Subcontractors. ADD the following:

With every request for payment, the Contractor shall submit to the Engineer a breakdown showing monthly and cumulative amounts of the Work performed under Change Order by the Contractor and the Subcontractors. The reporting format shall be approved by the Engineer.

2-3.4 Subcontract Requirements. To the City Supplement, ADD the following paragraph:

The Contractor shall ensure that all of its Subcontractors are licensed at the time of the execution of their subcontract agreements. In the event a Subcontractor is not properly licensed, the Contractor shall cease payment to Subcontractor for all work performed when the Subcontractor was improperly licensed. Any payment made by the Contractor to a Subcontractor for work performed when the Subcontractor was unlicensed shall be returned to the City.

Where the Contract Documents require that a particular product be installed or applied by an applicator approved by the manufacturer, it is the Contractor's responsibility to ensure the Subcontractor or Supplier employed for such work is approved by the manufacturer.

2-5.2 Precedence of Contract Documents. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

2-5.2 Precedence of Contract Documents. If there is a conflict between any of the Contract Documents, the document highest in the order of precedence shall control. The order of precedence, from highest to lowest, shall be as follows:

- 1) Permits (i.e., issued by jurisdictional regulatory agencies)
- 2) Change Orders and Supplemental Agreements; whichever occurs last
- 3) Contract and Agreement
- 4) Addenda
- 5) Bid (e.g., price Proposal for Design-Build contracts)
- 6) Request for Proposal (RFP)
- 7) Invitation to Bid
- 8) Instruction to Bidders
- 9) Request for Qualifications (RFQ)
- 10) Special Provisions (i.e., City's EOC Requirements, City Supplement, and Supplementary Special Provisions (SSP))
- 11) Plans
- 12) Construction Documents (for Design-Build contracts)
- 13) Standard Drawings
- 14) Reference Specifications (e.g., GREENBOOK)
- 15) Technical Proposal (for Design-Build contracts)
- 16) Statement of Qualifications (SOQ)

When additional requirements by the funding sources are physically or by reference incorporated in the Contract Documents, the funding source's requirements shall govern **unless specified otherwise**.

Figured dimensions shall take precedence over scaled dimensions. Detailed drawings shall take precedence over general drawings.

2-5.3.1 General. DELETE in its entirety and SUBSTITUTE with the following:

When required by the Contract Documents or when requested by the Engineer, the Contractor shall provide the submittals as specified in 2-5.3.2, 2-5.3.3, and 2-5.3.4 to the Engineer. Materials shall neither be furnished nor fabricated, nor shall any work for which submittals are required be performed before the required submittals have been reviewed and accepted by the Engineer. The payment for the submittals shall be included in the various Bid items. Neither review nor acceptance of submittals by the Engineer shall relieve the Contractor from responsibility for errors, omissions, or

deviations from the Contract Documents, unless such deviations were specifically called to the attention of the Engineer in the letter of transmittal. The Contractor shall be responsible for the correctness of the submittals.

The Contractor shall allow a minimum of 20 working days for review of submittals unless otherwise specified in the Special Provisions. Each submittal shall be accompanied by a letter of transmittal.

2-5.4.1 General. ADD the following:

Source Identification e.g., RFI numbers and Change Order numbers as required to identify the source of the change to the Contract Documents shall be noted.

2-5.4.2 Asset Specific Red-lines (d). ADD the following:

- Dimensional changes to the drawings.
- Revisions to details shown on drawings.
- Depths of foundations below first floor.
- Locations and depths of underground utilities.
- Revisions to routing of piping and conduits.
- Revisions to electrical circuitry.
- Actual equipment locations.
- Duct size and routing.
- Locations of concealed internal utilities.
- Changes made by Change Order.
- Details not on original Plans.

ADD the following:

- h) Slurry Seal and Asphalt Overlay Red-Lines: The Contractor shall clearly record on the City provided forms in MS Excel format the actual dates and quantity of each Bid item applied to each street segment and comments regarding each segment. The Contractor shall record reasons if no work is performed.
- g) Sewer Rehabilitation Templates: The Contractor shall fill and submit the sewer manholes and mains rehabilitation templates included in the Contract appendix.

2-5.5 As-built Drawings. ADD the following:

As-built Drawings shall be the responsibility of the Contractor.

2-6 WORK TO BE DONE. ADD the following:

In accordance with the provisions of California Law, the Contractor shall possess or require the Subcontractor(s) to possess valid appropriate license(s) for the Work being performed.

2-7 SUBSURFACE DATA. ADD the following:

In preparation of the Contract Documents, the designer has relied upon the following reports of explorations and tests of subsurface conditions at the Work Site:

1. Report of Geotechnical Investigation dated January 10, 2003 by Allied Geotechnical Engineers, Inc.

The report listed above is available for review by contacting the City Project Engineer Sheila Gamueda at (619) 533-5227 or visiting.

<ftp://ftp.sannet.gov/OUT/ECP/2-7%20SUBSURFACE%20DATA/SWG%20723%20K-12-5265-DBB-3-C/>

2-9.1 Permanent Survey Markers. DELETE in its entirety and SUBSTITUTE with the following:

The Contractor shall notify the Engineer or the owner on a Private Contract, at least 7 days before starting the Work to allow for the preservation of survey markers, survey monuments, lot stakes (tagged), and benchmarks. The Engineer or the owner on a Private Contract, will, at its cost, file a Corner Record Form referencing survey monuments subject to disturbance in the Office of the County Surveyor prior to the start of construction and also prior to the completion of construction for the replacement of survey monuments. The Contractor shall not disturb or permanently cover survey markers, survey monuments, lot stakes (tagged), or benchmarks without the consent of the Engineer or the owner on a Private Contract. The Contractor shall bear the expense of uncovering and replacing any that may be disturbed without permission. Replacement shall be done only under the direction of the Engineer by a Registered Land Surveyor or a Registered Civil Engineer authorized to practice land surveying within the State of California. When a change is made in the finished elevation of the pavement of any roadway in which a permanent survey monument is located, the Contractor shall adjust the monument cover to the new grade within 7 days of finished paving unless otherwise specified in the Special Provisions.

2-10 AUTHORITY OF BOARD AND ENGINEER. ADD the following:

Regulating agencies of the City, such as Developmental Services, Fire and Planning Departments, enforce Legal Requirements and standards. These enforcement activities are not subject to the responsibilities of the Engineer under this Agreement.

2-11 INSPECTION. ADD the following:

The City may utilize field inspectors to assist the Engineer during construction in observing performance of the Contractor. The inspector is for the purpose of assisting the Engineer and shall not be confused with an inspector with a City regulatory agency or with a Special Inspector.

Code compliance testing (including all Geotechnical requirements) and inspections required by codes or ordinances, or by a plan approval authority, shall be the responsibility of and shall be paid by the Contractor, unless otherwise provided in the Contract Documents.

The Contractor's quality control testing and inspections shall be the sole responsibility of the Contractor and paid by the Contractor included in the Bid price.

2-14.3 Coordination. To the City Supplement, ADD the following:

Other adjacent City project that is scheduled for construction for the same time period in the vicinity of Elliot Street and the Alley located northwest of Poinsettia Drive. See Appendix "E" for approximate location. The Work shall be coordinated with this adjacent project listed below:

- a) Sewer and Water Group 758, Project Manager Luis Schaar, 619-533-4641.

2-16 TECHNICAL STUDIES AND DATA. To the City Supplement, ADD the following:

In preparation of the Contract Documents, the designer has relied upon the following studies, data, reports of explorations, and tests:

1. Sewer Lateral Re-plumb Feasibility Report dated March 13, 2003 by Rick Engineering Company.

The report listed above is available for review by contacting the City Project Engineer Sheila Gamueda at (619) 533-5227 or visiting.

<ftp://ftp.sannet.gov/OUT/ECP/2-7%20SUBSURFACE%20DATA/SWG%20723%20K-12-5265-DBB-3-C/>

ADD: 2-17 CONTRACTOR REGISTRATION. The Contractor, Subcontractors, and Suppliers shall register with the City's EOCP via Prism® i.e., the City's web-based contract compliance portal at: <https://pro.prismcompliance.com/contractor/plugins/pages/contractormenu.aspx>.

The Contractor shall ensure that proposed Subcontractors and Suppliers have completed the registration prior to Notice of Intent to Award. If the Contractor fails to have its Subcontractors and Suppliers registered after the NTP has been issued, the City will withhold a minimum of 10% in addition to the Retention from all invoices submitted until the Contractor and all listed Subcontractors and Suppliers are properly registered in PRISM.

SECTION 3 – CHANGES IN WORK

3-3.2.2 Basis for Establishing Costs (a) Labor, City Supplement, first and second paragraphs, DELETE in entirety and SUBSTITUTE with the following:

The City reserves the right to request financial records of salaries for an employee, wages, bonuses and deductions to substantiate the actual cost of labor certified by a California licensed Certified Public Accountant. The Contractor shall use the City provided form i.e., "PUBLIC WORKS PAYROLL REPORTING FORM" which is available at <http://www.sandiego.gov/eoc/pdf/payrollreport.pdf> to list the labor rates of its personnel and Subcontractors who work on this Project. An initial submittal shall be made prior to NTP.

The payment for payroll records shall be included in the various Bid item unless a separate Bid item has been provided.

SECTION 4 - CONTROL OF MATERIALS

4-1.3.1 General. First paragraph, ADD the following:

Other standard items or materials typically accepted by Certificate of Compliance shall not require inspection at the source unless specified in the Special Provisions. For a list of these items or materials, the Contractor may refer to the Contract Documents.

4-1.3.5 Special Inspections. To the City Supplement, ADD the following:

Special Inspection and testing by the Special Inspectors shall meet the minimum requirements of the prevailing Codes and by the City's Development Services Department (DSD) and reference in <http://www.sandiego.gov/development-services/industry/special.shtml>

4-1.5 Certificates of Compliance. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

4-1.5 Certificates of Compliance. DELETE in its entirety and SUBSTITUTE with the following:

Certificates of Compliance shall be furnished to the Engineer prior to the use of any material or assembled material for which these Specifications so require or if so required by the Engineer.

The Engineer may waive the materials testing requirements of the Specifications and accept a Certificate of Compliance. Manufacturing test data may be required by the Engineer to be included with the submittal.

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

When professional certification of performance criteria of materials, systems or equipment is required by the Contract Documents, the City shall be entitled to rely upon the accuracy and completeness of such calculations and certifications.

4-1.6 Trade Names or Equals. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

ADD the following:

Whenever materials or equipment are indicated in the Contract Documents by using the name of a proprietary item or the name of a particular Supplier, the naming of the item is intended to establish the type, function, and quality required. Unless stated otherwise, materials or equipment of other Suppliers may be accepted if sufficient information is submitted to the Engineer for review to determine whether the material or equipment proposed is equivalent or equal to that named.

- a) The Contractor shall submit its list of proposed substitutions for "an equal" ("or equal") item(s) **no later than 5 Working Days after the determination of the Apparent Low Bidder** and on a City form when provided by the City.
- b) The request for substitution shall include the following information:

- i. Whether or not acceptance of the substitute for use in the Work will require a change in any of the Contract Documents to adopt the design to the proposed substitute.
- ii. Whether or not incorporation or use of the substitute in connection with the Work is subject to payment of any license fee or royalty.
- iii. All variations of the proposed substitute from the items originally specified will be identified.
- iv. Available maintenance, repair, and replacement service requirements. The manufacturer shall have a local service agency within 50 miles of the site which maintains properly trained personnel and adequate spare parts and is able to respond and complete repairs within 24 hours.
- v. Certification that the proposed substitute will perform adequately the functions and achieve the results called for by the general design, and be similar and of equal substance to that indicated, and be suited to the same use as that specified.
- c) There is no guaranteed time frame for the City's review of the substitution requests.
- d) The burden of proof as to the type, function, and quality of any such substitute product, material or equipment shall be upon the Contractor. The Engineer may require at the Contractor's expense additional data about the proposed substitute.
- e) If the Engineer takes no exceptions to the proposed substitution, it shall not relieve the Contractor from responsibility for the efficiency, sufficiency, quality, and performance of the substitute material or equipment, in the same manner and degree as the material and equipment specified by name.
- f) The lack of action(s) on the Engineer's side within the Contractor's requested time shall not constitute acceptance of the substitution.
- g) Acceptance by the Engineer of a substitute item shall not relieve the Contractor of the responsibility for full compliance with the Contract Documents.
- h) For the substitution review process or to have materials listed on the AML, refer to the AML standard review process.
- i) The Bid submittal shall be based on the material and equipment specified by name in the Contract. If the proposal is rejected by the Engineer, the Contractor shall not be entitled to either an extension in Contract Time, increase in the Contract Price, or both.
- j) As applicable, no Shop Drawing or Working Drawing submittals shall be made for a substitute item nor shall any substitute item be ordered, installed, or utilized without the Engineer's prior written.
- k) The Contractor shall reimburse the City for the charges of the Engineer for evaluating each proposed substitute.
- l) For Design-Build contracts, one copy of all designer reviewed submittals shall be provided to the Engineer.

SECTION 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK

6-1.2 Commencement of Work.

To the GREENBOOK and the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Unless specified otherwise, construction shall start within 5 Working Days after NTP and be diligently prosecuted to completion within the Contract Time. The Contractor shall not start any construction activity at the Site until the Pre-construction Meeting is held and the NTP has been issued by the Engineer.

Upon the Contractor's written request, the City may delay the NTP as follows:

- a) Up to 5 Working Days from the Pre-construction Meeting, or
- b) Up to 40 Working Days from the Limited NTP for the preparation, submittal, obtaining approval for and filing of the PRDs in accordance with 801, "STORM WATER POLLUTION CONTROL," or
- c) Up to 60 Working Days from the Limited NTP for the preparation, submittal, and approval of the TCP on "D-sheets" when specified in 7-10.2, "Traffic Control."

The Contractor shall 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 and higher).

For areas that do not require engineered TCP on D-sheets, the Contractor may at any time after the Pre-construction Meeting obtain a TCP Permit via Working Drawings or the City's over the counter process and start the Work. If the Contractor decides to commence the construction work before the completion of the D-sheet TCPs, the Contractor shall forfeit the 60 Working Days specified here. The D-sheet TCP shall be done concurrently and no additional time will be granted.

For paving Work, the Contractor shall coordinate the Work to facilitate the installation and protection of the new curb ramps and associated concrete work prior to commencing the asphalt overlay operations. The Work at a specific location shall not commence until all layouts and measurements are agreed upon by both the Contractor and the Engineer.

6-1.4 Phased Funding. To the City Supplement, ADD the following:

This contract is subject to Phased Funding.

ADD: 6-1.8 Pre-construction Meeting.

Within 20 Working Days from the Limited NTP the Engineer will schedule a mandatory pre-construction meeting (Pre-construction Meeting) with the Contractor. The agenda will include items such as NTP, design services and submittal and review process for Design-Build contracts, critical elements of the work schedule, submittal schedule, cost breakdown of major lump sum items, payment requests and processing, environmental and community concerns, coordination with the involved utility firms, the level of record project documents required and emergency telephone numbers for all representatives involved in the course of construction.

6-7.1 General. To the City Supplement, ADD the following:

- d) If weather condition is suitable, the Contractor shall complete each street segment within 15 Working Days from the day the slurry seal or asphalt overlay is placed. Each completed segment shall include other incidental Work items e.g., weed abatement, damaged asphalt pavement replacement, asphalt patching, resurfacing, striping, markings, raised pavement markers, and inlet markers.

ADD: 6-8.1 Completion. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

6-8.1 Completion. The Contractor shall submit a written assertion that the Work has been completed. If, in the Engineer's judgment, the Work has been completed in accordance with the

Contract Documents, the Engineer will set forth in writing the date the Work was completed. This will be the date when the Contractor is relieved from responsibility to protect and maintain the Work.

6-8.2 Acceptance. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

6-8.2 Acceptance. Acceptance will occur after all of the requirements contained in the Contract Documents have been fulfilled. If, in the Engineer's judgment, the Contractor has fully performed the Contract, the Engineer will accept the Contractor's performance of the Contract.

6-8.3 Warranty. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

6-8.3 Warranty.

Unless specified otherwise, the Work shall be warranted by the Contractor against defective workmanship and materials for a period of 1 year.

- a) The warranty period shall start on the date of completion of the Work as determined by the Engineer.
- b) The Contractor shall provide an unconditional warranty on all installed fiber optic cable for a minimum period of 2 years.
- c) The warranty period for the following items of the Work shall be 3 years:
 1. Work under Section 500 (requires Long Term Warranty Contract (LTWC))
 2. DWT Construction (requires manufacturer's warranty)
 3. LED signal modules (requires manufacturer's warranty)
- d) Private sewer pumps including the alarm panel and all other accessories. The Contractor shall provide the City and property owner a copy of the warranty. (requires manufacturer's warranty).
- e) The Contractor shall involve the manufacturer in the installation and startup as needed to secure any extended warranty required.
- f) The warranty period for specific items covered under manufacturers' or suppliers' warranties shall commence on the date they are placed into service at the direction of or as approved by the Engineer in writing.
- g) All warranties express or implied, from Subcontractors or Suppliers, of any tier, for the work performed and materials furnished shall be assigned, in writing, to the City, and such warranties shall be delivered to the Engineer prior to acceptance of the Contractor's performance of the Contract.
- h) The Contractor shall replace or repair defective Work in a manner satisfactory to the Engineer, after notice to do so from the Engineer, and within the time specified in the notice. If the Contractor fails to make such replacement or repairs within the time specified in the notice, the City may perform the replacement or repairs at the Contractor's expense. If the Contractor fails to reimburse the City for the actual costs, the Contractor's Surety shall be liable for the cost thereof.
- i) Nothing in this warranty is intended to limit any manufacturer's warranty which provides the City with greater warranty rights than set forth in this section or the Contract Documents.

- j) These specifications are not intended to constitute a period of limitations or waiver of any other rights or remedies City may have regarding the Contractor's other obligations under the Contract Documents or federal or state law.
- k) The Contractor shall respond and initiate corrective action within 24 hours of notice of nonconforming Work that poses an imminent threat to person or property.

6-9 LIQUIDATED DAMAGES. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

MODIFY to increase the daily value from \$250 to \$1,000 for contracts with a value of over \$100,000.

SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR

7-3 LIABILITY INSURANCE. DELETE in its entirety and SUBSTITUTE with the following:

The insurance provisions herein must not be construed to limit your indemnity obligations contained in this contract.

ADD: 7-3.1 Policies and Procedures.

- a) You must procure the insurance described below, at your 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.
- b) Insurance coverage for property damage resulting from your operations is on a replacement cost valuation. The market value will not be accepted.
- c) You must 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 this contract, e.g., your indemnity obligations, will is not deemed limited to the insurance coverage required by this contract.
- d) Payment for insurance is included in the various items of Work as bid by you, and 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.
- e) Policies of insurance must 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 this contract. Your failure to maintain or renew coverage or to provide evidence of renewal during the term of this contract may be treated by the City as a material breach of contract.

ADD: 7-3.2 Types of Insurance.

7-3.2.1 Commercial General Liability Insurance.

- a) Commercial General Liability Insurance must 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.
- b) The policy must 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).
- c) There must be no endorsement or modification limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. You must maintain the same or equivalent insurance for at least 10 years following completion of the Work.
- d) All costs of defense must be outside the policy limits. Policy coverage must be in liability limits of not less than the following:

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

7-3.2.2 Commercial Automobile Liability Insurance.

- a) You must 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").
- b) All costs of defense must be outside the limits of the policy.

7-3.2.3 Commercial Pollution Liability Insurance.

- a) You must procure and maintain at your expense or require 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.
- b) All costs of defense must be outside the limits of the policy. Any such insurance provided by Subcontractor instead of you must be approved separately in writing by the City.
- c) For approval of a substitution of Subcontractor's insurance, you must 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 must not exceed \$25,000 per claim.

- d) Contractual liability must include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. There must be no endorsement or modification of the coverage limiting the scope of coverage for either “insured vs. insured” claims or contractual liability.
- e) Occurrence based policies must be procured before the Work commences and must be maintained for the Contract Time. Claims Made policies must be procured before the Work commences, must be maintained for the Contract Time, and must include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies must continue to be maintained for 12 months after the completion of the Work without advancing the retroactive date.
- f) Except as provided for under California law, the policy or policies must 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.

ADD: 7-3.3 Rating Requirements.

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

7-3.3.1 Non-Admitted Carriers.

The City will accept insurance provided by non-admitted, “surplus lines” carriers only if the carrier is authorized to do business in the State and is included on the List of Eligible Surplus Lines Insurers (LESLI list).

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

ADD: 7-3.4 Evidence of Insurance.

Furnish to the City documents e.g., certificates of insurance and endorsements evidencing the insurance required herein, and furnish renewal documentation prior to expiration of this insurance. Each required document must 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.

ADD: 7-3.5 Policy Endorsements.

7-3.5.1 Commercial General Liability Insurance

7-3.5.1.1 Additional Insured.

- a) You must 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.

- b) To the fullest extent allowed by law e.g., California Insurance Code §11580.04, the policy must be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured.
 - 1. The additional insured coverage for projects for which the Engineer's Estimate is \$1,000,000 or more must 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.
 - 2. The additional insured coverage for projects for which the Engineer's Estimate is less than \$1,000,000 must include liability arising out of: (a) Ongoing operations performed by you or on your behalf, (b) Your products, or (c) premises owned, leased, controlled, or used by you.

7-3.5.1.2 Primary and Non-Contributory Coverage.

The policy must 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 must provide that any insurance maintained by the City and its elected officials, officers, employees, agents and representatives must be in excess of the Contractor's insurance and must not contribute to it.

7-3.5.1.3 Project General Aggregate Limit.

The policy or policies must 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 must reduce the Designated Construction Project General Aggregate Limit. The Designated Construction Project General Aggregate Limit must be in addition to the aggregate limit provided for the products-completed operations hazard.

7-3.5.2 Commercial Automobile Liability Insurance.

7-3.5.2.1 Additional Insured.

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

7-3.5.3 Contractors Pollution Liability Insurance Endorsements.

7-3.5.3.1 Additional Insured.

- a) The policy or policies must 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 must 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.

- b) 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 is 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 must be limited to obligations permitted by California Insurance Code §11580.04.

7-3.5.3.2 Primary and Non-Contributory Coverage.

The policy or policies must 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 must be in excess of your insurance and must not contribute to it.

7-3.5.3.3 Severability of Interest.

For Contractors Pollution Liability Insurance, the policy or policies must provide that your insurance must 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 must provide cross-liability coverage.

7-3.5.4.2 Primary and Non-Contributory Coverage.

The policy or policies must 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 must be in excess of your insurance and must not contribute to it.

7-3.5.4.3 Severability of Interest.

For Contractors Hazardous Transporters Pollution Liability Insurance, the policy or policies must provide that your insurance must 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 must provide cross-liability coverage.

ADD: 7-3.6 Deductibles and Self-Insured Retentions.

You are responsible for the payment of all deductibles and self-insured retentions. Disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided.

ADD: 7-3.7 Reservation of Rights.

We reserve 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. We 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.

ADD: 7-3.8 Notice of Changes to Insurance.

You must notify the City 30 days prior to any material change to the policies of insurance provided under this contract.

ADD: 7-3.9 Excess Insurance.

Policies providing excess coverage must follow the form of the primary policy or policies e.g., all endorsements.

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

- a) For contracts with required engineering services (e.g., Design-Build, preparation of engineered Traffic Control Plans (TCP), etc. by you) for all of your employees or Subcontractors who provide professional engineering services under this contract, you must keep or must require your Subcontractor keep in full force and effect, Professional Liability coverage with a limit of **\$1,000,000** per claim and **\$2,000,000** annual aggregate.
- b) You must ensure both that: (a) the policy retroactive date is on or before the date of commencement of the Project; and (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.
- c) If professional engineering services are to be provided solely by the Subcontractor, you must (a) certify this to the City in writing and (b) agree in writing to require the Subcontractor to procure Professional Liability coverage in accordance with the requirements set forth above.

7-4 WORKERS' COMPENSATION INSURANCE. DELETE in its entirety and SUBSTITUTE with the following:

7-4.1 Workers' Compensation Insurance and Employers Liability Insurance.

- a) In accordance with the provisions of §3700 of the California Labor Code, you must provide at its 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.

b) Limits for this insurance must 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

c) By signing and returning this contract you certify that you are aware of the provisions of §3700 of the Labor Code which require 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 will comply with such provisions before commencing the Work as required by § 1861 of the California Labor Code.

7-4.1.1 Waiver of Subrogation.

The policy or policies must 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.

7-5 PERMITS, FEES, AND NOTICES. To the City Supplement, DELETE item e) in its entirety.

7-8.6 Water Pollution Control. ADD the following:

- a) The Project is subject to the Storm Water Pollution control requirements listed on the Plans or as specified in these specifications.
- b) For contracts subject to Construction General Permit (CGP), the Contractor's QSD shall verify the City's assessment prior to submittal through SMARTS.
- c) The Contractor's attention is directed to Section 801, "WATER POLLUTION CONTROL" of these specifications for more information.
- d) Based on a preliminary assessment by the City, this contract is subject to WPCP.

7-9 PROTECTION AND RESTORATION OF EXISTING IMPROVEMENTS. ADD the following:

In any emergency affecting the safety of persons or property, the Contractor shall act, at its discretion, to prevent threatened damage, injury or loss. Any change in Contract Price or Contract Time resulting from emergency work shall be determined as provided in SECTION 3, "CHANGES IN WORK."

7-10.1 Traffic and Access. To the City Supplement, DELETE the agency notification listing in its entirety and SUBSTITUTE with the following:

The Contractor shall notify Metropolitan Transit System (MTS), a minimum of 5 Working Days prior to excavation, construction, or traffic control affecting bus stops. The Contractor shall notify the remaining agencies a minimum of two 2 Working Days prior to construction activities affecting the agencies:

Fire Department Dispatch	(Street or alley closure)	(858) 573-1300
Police Department Traffic	(Street or alley closure)	(858) 495-7800
Street Division/Electrical	(Traffic signals)	(619) 527-7500
U.S. Navy	(32nd Street Naval Station)	(619) 556-1319
Underground Service Alert	(Any excavation)	(800) 422-4133
MTS	(Street Closure and Bus Stops)	(619) 238-0100 Ext 6451

7-10.2.2 ENGINEERED Traffic Control Plans Provided by the Contractor. To the City Supplement, ADD the following:

Engineered “D” size TCP shall be required for the following areas:

- a) Chatsworth Boulevard

7-10.2.6 Traffic Control Signs and Notices for Resurfacing and Slurry Sealing. To the first paragraph of the City Supplement ADD the following:

For each street segment in addition to resurfacing and slurry sealing, the Contractor shall post “NO PARKING” for any required preparatory work such as, but not limited to, damaged asphalt pavement replacement (mill & pave), crack seal, and tree trimming.

7-10.6 Traffic Plate Bridging. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Transverse or longitudinal cuts, voids, trenches, holes, and excavations in the right-of-way that cannot be properly completed within 1 Working Day shall be protected by adequately designed barricades and structural steel plates [plates] that will support legal vehicle loads in such a way as to preserve unobstructed traffic flow.

The Contractor shall secure approval, in advance, from authorities concerning the use of any bridging proposed on the Work.

Plates shall conform to the following:

- a) The trench shall be adequately shored to support the bridging and traffic loads.
- b) Plates shall be designed for HS 20-44 truck loading in accordance with Caltrans Bridge Design Specifications Manual.

- c) For the minimum thickness of plates refer to Table 7-10.6(A):

Table 7-10.6(A) - Trench Width / Minimum Plate Thickness

Trench Width	Minimum Plate Thickness
10" (0.25 m)	1/2" (13 mm)
1'-11" (0.58 m)	3/4" (19 mm)
2'-7" (0.80 m)	7/8" (22 mm)
3'-5" (1.04 m)	1" (25 mm)
5'-3" (1.6 m)	1 1/4" (32 mm)

For spans greater than 5'-3" (1.6 m), a structural design shall be prepared by a California Registered Civil Engineer and approved by the Engineer.

- d) Plates shall have a skid-resistant surface with a nominal Coefficient Of Friction (COF) of 0.35 as determined by California Test Method 342.
- e) Plates shall extend a minimum of 12" (300 mm) beyond the edges of the trench.
- f) Plates shall provide complete coverage to prevent any person, bicycle, motorcycle or motor vehicle from being endangered due to plate movement causing separations or gaps.
- g) Plates shall be secured against movement or displacement by using adjustable cleats, shims, welding, or other devices, and shall be installed in a manner that will minimize noise as traffic drives over them. Plates shall be installed using either Method (1) or (2):
- i. Method 1 [For speeds greater than 45 mph (70 Km/hr)]: The pavement shall be cold planed to a depth equal to the thickness of the plate and to a width and length equal to the dimensions of the plate.
 - ii. Method 2 [For Speeds less than 45 mph (70 Km/hr)]: Approach plate(s) and ending plate (if longitudinal placement) shall be attached to the roadway by a minimum of 2 dowels pre-drilled into the corners of the plate and drilled 2" (50 mm) into the pavement. Subsequent plates are butted to each other. Fine graded asphalt concrete shall be compacted to form ramps, maximum slope 8.5 % with a minimum 12" (305 mm) taper to cover all edges of the plates.

Alternative installation method may be submitted in accordance with 2-5.3, "Submittals" for the Engineer's approval.

- h) The Contractor shall be responsible for maintenance of the plates, shoring, and asphalt concrete ramps or any other approved device used to secure the plates. The Contractor shall immediately mobilize necessary personnel and equipment after being notified by the Engineer, the City's station 38, or a member of the public of a repair needed e.g., plate movement, noise, anchors, and asphalt ramps. Failure to respond to the emergency request within 2 hours will be grounds for the City to perform necessary repairs that will be invoiced at actual cost including overhead or \$500 per incident, whichever is greater. Failure by the Contractor to comply may result in automatic grounds suspension of permit, Contract, or both.
- i) When plates are removed, any damage to the pavement shall be repaired with fine graded asphalt concrete mix or slurry seal satisfactory to the Engineer.

Payment for traffic plate bridging shall be included in the various Bid items unless a Bid Item has been provided for steel plate bridging.

7-15 INDEMNIFICATION AND HOLD HARMLESS AGREEMENT. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

ADD: 7-15 INDEMNIFICATION AND HOLD HARMLESS AGREEMENT. The Contractor shall defend, indemnify, protect, and hold harmless the City, its agents, officers, and employees, from and against all claims asserted, or liability established for damages or injuries to any person or property resulting from the Contractor's action or failure to take the necessary measures to prevent such damages and injuries.

The Contractor shall be responsible for payment of any fines resulting from citations issued to the City by either the federal, state, or local environmental and safety enforcement agencies due to the Contractor's failure to abide by applicable safety, health, and environmental standards.

ADD: 7-21 ELECTRONIC COMMUNICATION. The Contractor shall post all communications addressed to the Engineer concerning construction including RFIs, submittals, and transmittals to the Virtual Project Manager (VPM) website established for the Project. The Contractor shall maintain a list of scheduled activities including planned and actual execution dates for all major construction activities and milestones defined in the approved Schedule. The Contractor shall review and act on all communications addressed to the Contractor in the VPM project website. A user's guide to the VPM system is available on the City's website and will be provided to the Contractor at the preconstruction meeting. The payment for electronic communications shall be included in the various Bid items.

SECTION 8 - FACILITIES FOR AGENCY PERSONNEL

8-2 FIELD OFFICE FACILITIES. To the City Supplement, DELETE in its entirety.

PART 2 - CONSTRUCTION MATERIALS

SECTION 207 – PIPE

207-17.1 General. ADD the following:

All House Connection Sewer Laterals shall use acceptable stainless steel shielded couplings manufactured by Mission, Fernco or approved equal.

ADD: 207-17.2.3 Pipe Manufacturer. Pipe, fittings, couplings, and joints as manufactured or distributed by J-M Manufacturing Company shall not be used on this contract.

207-26.1.1 Polymer Concrete Water Meter Boxes. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Boxes and covers to be installed in traffic areas shall have a reinforced polymer concrete frame and cover designed for AASHTO H-20 traffic loading. Boxes and covers to be installed in non-traffic areas shall have reinforced polymer concrete reader lids designed for A-10 traffic loading in accordance with ASTM-C857. Traffic areas are defined as any location in which vehicular traffic is evident or highly likely under normal conditions. Non-traffic areas are locations with no vehicular traffic. Covers shall have a logo reading "PUD WATER" as well as the manufacturer's name or logo cast in the polymer concrete surface. A cover and lid selected at random shall be tested. The cover and lid shall support without failure a total vertical load of at least 1,000 pounds, when supported in a

horizontal position in the meter box. The load shall be applied to the center of the lid by a cylindrical pin, 1.952” in diameter, supported on a 2-thick rubber pad.

Unless provided for as a separate Bid item, payment for Polymer Concrete Box shall be included in the Bid item for water services.

207-26.1.5 Polyvinyl Chloride Pipe 2” Only. To the City Supplement, DELETE in its entirety.

SECTION 216 – DETECTABLE WARNING TILES

216-1.2 Materials. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Materials for DWT specified herein shall be per the City's Approved Materials List (AML). The tiles shall have the manufacturer's logo stamped permanently on the product with identifying information such as model number and type.

- a) The Stainless Steel Cast in Place DWT shall be of 16 gauge Type 304L with an integral micro-texture non-slip surface stamped into the stainless steel plate on the top of the domes and in the field surface between the domes. It shall have an ultra violet stabilized coating.
- b) Vitrified Polymer Composite (VPC) Cast in Place DWT shall be an epoxy polymer composition with an ultra violet stabilized coating employing aluminum oxide particles in the truncated domes. VPC Product shall be provided with a 5-year manufacturer written warranty form materials and installation.
- c) For others materials and a complete listing of material physical property requirements refer to the City's AML.

PART 3 – CONSTRUCTION METHODS

SECTION 300 – EARTHWORK

300-1.4 Payment. To the City Supplement, First and Second paragraph DELETE in its entirety and SUBSTITUTE with the following:

Payment for the removal and disposal of existing pavement beyond 12” thick, within the excavation e.g., trench limits, shall be included in the Bid item for Additional Pavement Removal and Disposal, and no additional payment shall be made regardless of the total thickness and composition of existing pavement removed and disposed.

Payment for existing pavement removal and disposal of up to 12” thick, within the excavation e.g., trench limits, shall be included in the Bid item for installation of the mains or the Work item that requires pavement removal.

SECTION 302 – ROADWAY SURFACING

302-1.9 Traffic Signal Loop Detectors. To the City Supplement, DELETE the second paragraph and SUBSTITUTE with the following:

Traffic detector loops shall be reinstalled prior to resurfacing of the related street within 15 days from completion of all preparatory work including milling, cutting and grinding. The Contractor shall contact the City of San Diego's Street Division, Traffic Signal Maintenance at 619-527-8052 north of Interstate 8 or 619-527-8053 south of Interstate 8 to request loop layout.

302-4.1 Material. DELETE in its entirety and SUBSTITUTE with the following:

Material shall be Rubberized Emulsion-Aggregate Slurry (REAS) in accordance with 600-3.2 “Materials.”

ADD: 302-5.2 Pavement Restoration Adjacent to Trench. Pavement restoration adjacent to trench shall include the replacement of existing pavement adjacent to the proposed trench and outside the trench limits, that was previously broken or displaced.

Prior to the commencement of the Work, the Contractor shall meet with the Engineer and determine the limits of the pavement to be replaced. If the Contractor does not meet with the Engineer before removing the pavement, all replacement outside the limits of the proposed trench resurfacing shall be at the Contractor’s expense.

Existing pavement shall be removed in accordance with Section 300-1.3.2. Prior to pavement restoration, existing subgrade shall be prepared in accordance with 301-1, “SUBGRADE PREPARATION.” If any existing unsuitable subgrade as determined by the Engineer is encountered, it shall be replaced with imported backfill in accordance with 306-1.3.7, “Imported Backfill” prior to preparation.

302-5.2.1 Measurement and Payment. Payment for pavement restoration adjacent to trench will be made on a square foot basis as shown in the Bid in accordance with 302-6.8, “Measurement and Payment” for concrete streets or 302-5.9 “Measurement and Payment.” Unless Bid includes separate Bid item(s), the following shall be included in the payment for pavement restoration adjacent to trench:

- a) saw-cutting existing edges,
- b) removal and disposal of existing pavement,
- c) subgrade preparation including imported backfill material,
- d) form work,
- e) placement, curing, and protection of new pavement, and
- f) place full depth AC per CSDSD SDG-107-Type “A”.

302-6.1 General. To the City Supplement, Last paragraph, DELETE in its entirety and SUBSTITUTE with the following:

Prior to placing concrete, existing subgrade shall be prepared in accordance with 301-1, “SUBGRADE PREPARATION.”

If any existing unsuitable subgrade, as determined by the Engineer, is encountered it shall be replaced in accordance with 300-2.2, “Unsuitable Material.”

302-6.8 Measurement and payment. To the City Supplement, DELETE in its entirety.

302-13.4 Application. To the City Supplement, DELETE the second paragraph and SUBSTITUTE with the following:

Sealant shall be applied from the bottom of the crack up to the surface in a manner which does not result in sealant bridging or pockets of entrapped air. The sealant shall be applied to a slightly overfilled condition and then leveled with a squeegee. The width of sealant remaining on the surface

shall not exceed 1.5” on either side of the crack. Any debris blown onto adjacent gutters, sidewalks, parkways, medians, intersections or other areas shall be removed prior to the end of the Working Day.

302-13.5 Payment. To the City supplement DELETE in its entirety and REPLACE with the following:

Payment for Crack Sealing including weed spray, cleaning and sealing shall be included in the “Slurry Seal (REAS) Type II and Striping” bid item.

SECTION 303- CONCRETE AND MASONRY CONSTRUCTION

303-5.10.2 Payment. To the City Supplement, 2nd paragraph, DELETE in its entirety and SUBSTITUTE the following: Additional concrete sidewalk and curb quantities *beyond the 15’-0”* will be paid for in accordance with the Contract unit price for additional curb and additional sidewalk.

SECTION 306 – UNDERGROUND CONDUIT CONSTRUCTION

306-1.4.8 Televising Sewer Mains and Storm Drains. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

ADD: 306-1.4.8 Televising Sewer Mains, Sewer Laterals, and Storm Drains.

306-1.4.8.1 General. The Contractor in coordination with the Engineer shall televise new sewer mains and storm drains, rehabilitated existing sewer mains when performing parallel replacement to locate existing laterals, and existing sewer pipe segments and laterals after the cleaning process and prior to commencing rehab work. The Contractor shall provide the video records with compressed audio in digital file format on digital video discs (DVD’s).

306-1.4.8.2 Submittals. The Contractor shall make several submittals during construction as follows:

- a) The Contractor shall provide an initial submittal at the start of televising work demonstrating the typical video and audio quality to be provided for acceptance by the Engineer. This submittal shall note any proposed changes to the specification listed below regarding video format, data processing, compression or other conditions for review and approval by the Engineer.
- b) When televising existing mains proposed to be replaced, the Contractor shall provide the televising DVD(s) and a red-lined set of Plans showing the location of the existing laterals to the Engineer before constructing the new sewer mains. Service lateral video inspection shall be submitted on a separate DVD.
- c) Post Cleaning Videos prior to rehabilitation of mains - The Contractor shall televise the sewer pipe segments after the cleaning process has been completed and prior to commencing rehabilitation work. If point repairs are necessary, the Contractor shall identify the location of the proposed point repairs and submit the post cleaning video within 5 Working Days of completion of the segment cleaning and at least 5 Working Days prior to commencing the rehab work to obtain prior approval by the Engineer. The Engineer will review each video submittal within 10 Working Days of receiving submittal. Each video submittal shall be limited to 20 segments. The post cleaning video for the remainder of the mainline segments shall be submitted in accordance with 2-5.3, “Submittals.”

- d) Post Cleaning Videos for rehabilitated laterals or lateral launch videos - The Contractor shall televise the lateral segments after the cleaning process has been completed and prior to commencing any work on laterals. The post cleaning video for service lateral launch shall be submitted within 5 Working Days of segment cleaning. The Engineer will review each video submittal within 10 Working Days of receiving each submittal. Each DVD submittal shall be limited to 20 segments. The video inspection shall include inspection of service lateral a minimum of 30' in length from the mainline or up to the property line unless an obstruction is encountered.

If the property line clean-outs are not known to exist, service lateral video may be obtained with camera equipment designed to launch into the service lateral from the mainline or access from the private property with homeowner's permission. Each service lateral shall be identified by the Facility Sequence Number (FSN) of the mainline (when FSN are included in the Contract Documents) and the address of the property which it serves. Failure to comply with these specifications may result in one or more of the following:

- i. A delay of the review and approval of the submittal(s).
 - ii. Delay in progress payments.
 - iii. Require the Contractor to re-televise the pipelines at no cost to the City.
- e) Final Televising, Post-Rehabilitation Videos and Red-lines – New sewer mains shall be inspected by CCTV and recorded on DVD not less than 22 working days after completion of permanent trench restoration and finished grading, but prior to final resurfacing. The Contractor shall review the DVD for any discrepancies or deficiencies in the installation of the pipe or liner. The Contractor shall notify the Engineer at least 30 Working Days in advance of the anticipated date that Acceptance will be requested. If the specified advance notice is not given, Acceptance and bond release may be delayed.
- f) Ten Working Days shall be allowed for the Engineer to review each individual video disc of each and every reach documented on that particular videodisc. In the event that any deficiencies are discovered by the Engineer or City, either by the Contractor's televising or the City's re-televising, 5 Working Days shall be allowed for City to judge whether the deficiencies or sags are repairable, in place. If the judgment is made that the deficiencies are non-repairable in place, the affected portion(s) shall be reconstructed at no cost to the City. The Contractor shall not be entitled to Contract Time extension due to delays resulting from correcting deficiencies or sags as determined by televised inspections.
- i. The City reserves the right to re-televise any new sewer main after the placement of permanent trench restoration and before final acceptance to determine the existence and extent of any foreign material or obstructions such as cement grout, wood, rocks, sand, concrete, or pipe fragments, and any structural deficiencies, or sags precipitated by the permanent trench restoration operations or other items of Work.

Post-rehabilitation videos shall be submitted within 30 days of completion of the Work. The final video recording shall clearly show the condition of the liner with ends sealed at the manholes, service lateral and connection seals. The submittal of this final video recording shall also include MS Access database and marked up Field Book pages or Plans as attachments. Failure to deliver the submittal(s) within the time identified or if a total of more than 20 segments are submitted in a single video may result in one or more of the following:

1. A delay of the review and approval of the submittal(s).
2. Delay in progress payments.
3. Require the Contractor to re-televising the sewer main segments.

306-1.4.8.3 Video Operator Qualifications. The video operator shall have at least 1 year of experience with a project of a similar nature within the last 3 years.

306-1.4.8.4 Equipment for Televising. Camera and lighting quality shall be suitable to provide a clear, continuously in-focus picture of the entire inside periphery of the sewer pipe or storm drain for all conditions encountered during the work. The equipment shall be capable of televising the entire length from manhole to manhole in one direction. When televising storm drains/sewer mains the camera shall be capable of scanning the joints for 360 degrees.

If necessary, the Contractor shall provide a self-propelled camera, capable of extended videotaping lengths and operation in remotely accessed areas without direct vehicular access. The system used to move the camera through the pipe shall not obstruct the camera's view. The remote-reading footage counter device which measures the distance traveled by the camera in the pipe shall be displayed on the television monitor and shall be accurate to plus or minus 1' (0.3 meters) in 1000' (300 meters) (+0.3m:300 meters). The Contractor shall calibrate the measuring device each day with a known distance to the satisfaction of the Engineer prior to starting the inspection and videotaping process.

306-1.4.8.5 Televising Procedures.

- a) The Engineer shall be notified a minimum of 2 Working Days in advance of televising. The entire televising inspection process shall be done in the presence of the Engineer.
- b) The Contractor shall clean the sewer mains prior to televising as necessary to adequately perform the video recording operations.
- c) The camera shall be moved through the sewer at a uniform rate, stopping when necessary to ensure proper documentation of the condition of the sewer line but in no case shall the television camera be pulled at a speed greater than 30' (9 meter) per minute. The camera shall be moved by means of power cable winches or self propelled tractors at each manhole, and rotating the camera head at each lateral connection, defect, or both to allow for adequate evaluation. The importance of accurate distance measurements is emphasized. Measurement for location of defects shall be above ground by means of a measuring device. Footages shown on the DVD(s) shall coincide with horizontal lengths from stationing as shown on the plans. Footage measurements shall begin at the centerline of the upstream manhole or storm drain access point, unless permission is given by the Engineer to do otherwise. Both pre and post video inspections shall be submitted to the Engineer.
- d) Televising shall be done in one direction for the entire length between manholes. Each section shall be isolated from the remainder of the storm drain or sewer line with the upstream sewage flow bypassed as required. Sufficient water shall be supplied to the isolated section to cause drainage reaching the downstream manhole prior to televising. If existing flows are high, pre-construction video inspection can be done with partial flow. Depth of the flow shall not exceed:
 - i. 6" - 10"(150 mm. - 250 mm) pipes - 20% of the pipe diameter.
 - ii. 12" - 24" (0.3 meters - 0.6 meters) pipes - 25% of the pipe diameter.
 - iii. 27" (0.7 meters) and up pipe - 30% of the pipe diameter.

- e) The Contractor shall televise the pipeline with maximum flow diverted from the pipeline. In the event that the existing flow is interfering with the video operation, a bypass shall be performed by the Contractor to lower the flow volume sufficiently to allow for a clear video picture.
- f) Obstructions may be encountered during the course of the internal inspection that prevents the travel of the camera. If an obstruction is not passable, the Contractor shall withdraw the equipment and begin internal inspection from the opposite end of the sewer reach. Should an additional obstruction be encountered after employment of the equipment from the opposite end of the sewer and no means are available for moving the television camera past the obstruction, the Contractor shall notify the Engineer, and the inspection shall be cancelled or postponed until the obstruction is removed. The Contractor shall remove the obstruction by excavation, repair or any other means approved by the Engineer, at no additional cost to the City.

After the obstruction has been removed, the Contractor shall continue with the CCTV inspection. A reverse setup, if necessary, shall be performed by the Contractor at no additional cost to the City. Should the camera get stuck in the sewer, the Contractor shall be responsible for all costs involved in extracting it. Costs related to difficulties encountered during internal television inspection are incidental to the Contract and claims, therefore, will not be considered.

- g) Defects such as offset joints, cracks in the pipe, and inflow shall be pointed out, quantified verbally, and projected on CCTV video disc. The Contractor shall use the standard owner's video introduction, abbreviations, log sheet forms, and severity code with legend when recording the line segment information. The Contractor shall notify the Engineer of any additional damage found and obtain prior approval from the Engineer for additional point repairs.
- h) Original DVD shall be submitted to and shall become the property of the City. DVD's will be reviewed by the Engineer for focus, lighting, sound, clarity of view, and technical quality. Videos recorded while a camera has flipped over in the process of traveling and the viewing of laterals, obstructions or defects that are blocked by cables, skids or other equipment will not be accepted. Sharp focus, proper lighting, and clear distortion-free viewing during the camera operations shall be maintained. Failure to maintain these conditions will result in the rejection of the video disc by the Engineer. Video recordings, if unacceptable to the Engineer, shall be repeated at no additional cost to the City.
- i) The City reserves the right to re-televise any reach of the pipeline following the cleaning, pipe installation and rehabilitation activities, but before Acceptance, to determine the existence and extent of any foreign material or obstructions such as cement grout, wood, rocks, sand, concrete, or pieces of pipe, and any structural deficiencies, or sags preventing the completion of the Work.
- j) Final CCTV. The Contractor shall clean the line with high pressure water jetting equipment and a sewer ball prior to performing mandrel, air test or both, or as specified by the Engineer. For the final video inspection, the City will require a dry pipe. During the post-video inspection, the camera shall stop at each lateral connection, focus on the bottom of the opening and then make one slow clockwise observation around the perimeter of the lateral which clearly shows the quality of the connection. If the Contractor fails to properly show and document any of the lateral openings, the Contractor will be required to re-televise that section of pipeline at no additional cost to the City.

- k) The Contractor shall not be entitled to any additional contract time due to delays resulting from the need to correct any deficiencies, either repairable or non-repairable, in place, as determined by televised inspections.

306-1.4.8.6 DVD and Final Report Requirements. The Contractor shall provide all video with audio in digital file format on DVD's. Audio and written documentation shall accompany all DVD(s) submitted to the Engineer.

a) DVD Requirements

- i. One file shall be provided for each manhole to manhole pipe segment or for each manhole to manhole inspection video.
- ii. The filename shall incorporate the unique facility identifier provided by the City and the date of the inspection. The facility identifier numbers will be manhole numbers, with adjacent manhole numbers identifying pipe sections. The facility identifier number(s) shall be compatible with the data input features of the reporting software i.e., number of available input digits, fields, or both.
- iii. DVD recordings shall be in color and in MPEG2 format. The minimum video bit rate shall be 4.7 Mega bits per second (Mbps) and minimum audio bit rate shall be 128 Kilo bits per second (Kbps). Out-of-focus video recording or low quality and blurred pictures due to steam or smudged camera lens, or portions thereof, shall be cause for rejection of the video recording.
- iv. The camera source image capture shall provide a high resolution image with a minimum of 640x480 pixels capture. The video shall be at 30 frames per second.
- v. The video will be captured and compressed so as to reduce file size as much as possible while still meeting the needs of the City. The compression shall be in accordance with MPEG2 format. The video files shall be highly compressed, resulting in an anticipated average file size of maximum 10 MB per minute of video.
- vi. The compression shall not significantly degrade the still frame quality of the video or audio signal from the original source video, as judged in a side by side viewing under normal viewing conditions.
- vii. During post-installation CCTV inspections, the Contractor shall utilize one of the following video camera systems: a rotating-lens camera (articulating head) or a pan and tilt camera.
- viii. The Contractor shall use a dual recording system and submit post video inspection discs to the inspector, subsequent to recording.
- ix. The Contractor shall ensure visibility and lighting with minimum glare and without any dark or shadowy regions appearing on the final video disc.
- x. The Contractor shall pan and tilt the camera and pause for at least 15 seconds at each lateral connection to adequately show and document that the saddle has been installed properly for new installations and that the lateral opening has been reestablished for rehabilitation and lining in accordance with 500.1.1.7.a, "Miscellaneous."
- xi. The television camera shall produce a continuously-monitored high-quality picture, capable of discerning all major and minor structural defects in the pipeline. The post-installation CCTV inspection will document all defects which may affect the integrity or the strength of the pipeline, such as cracks, roughness, fins, or folds. The Contractor shall repair or replace all defects, at no additional cost to the City, which in the opinion of the Engineer may affect the hydraulic condition of the pipe liner.
- xii. Each DVD submittal shall include the following:

Visuals

1. Adequate view of the upstream and downstream manholes or storm drain access points. The direction of the survey upstream or downstream.
2. A pause at and zoom in on the lateral connections for at least 15 seconds for identification of the condition of the connection.
3. A pause at and zoom in on the identified defects sufficient for identification of the type of problem.
4. Identified fault conditions or defects, see Appendix for Standardized City Condition and Defect Codes.
5. Each pipe section shall be identified by FSN, manhole numbers and the street name. If shown on the Plans, station numbers and sheet numbers shall also be identified.
6. A continuous read-out of the camera distance from the starting manhole to the end point at all times.
7. Pipe size.
8. Pipe or liner material, see Appendix for Material Description and Code.

Audio

1. Date of CCTV inspection.
2. Confirmation of each section to be CCTV inspected i.e., narrative of manholes, storm access points or station numbers, or FSN's and direction upstream or downstream.
3. Description of pipe size lined on post and final videos, material liner type for post and final videos and pipe joint length.
4. Description and location of each defect.
5. Description and location of each service connection.
6. Include brief but informative comments on data of significance, including, but not limited to, the locations of unusual conditions, type and size of connection, collapsed section, the presence of scale and corrosion, and other discernible features.

Written Documentation

1. Date of CCTV inspection.
2. Printed labels on DVD number, location information, date of inspection, and other descriptive information.
3. Location, size, material, and length of pipe.
4. Direction of flow and measurement "From" manhole or storm drain access point or station number "To" manhole or storm drain access point or station number or FSN.
5. File numbers itemizing individual segments.
6. Sketch showing the street and cross streets where the CCTV inspection was made.
7. Description and location of each defect or deficiency and a list of all proposed repairs.
8. Description and location of each connection.

9. A menu which lists files for each pipe section to be inspected and the date of the inspection.

b. Final CCTV inspection reports

- i. The Contractor shall provide reports of final inspection results of pipeline televising and conditional assessments utilizing a MS Access database reporting software.
- ii. This information shall be in tabular form, and include but not be limited to the following information: pipeline run from upstream to downstream manhole, location of defects in feet from upstream manhole, description of the defect, and other pertinent information. The reports shall also show all service lateral connection locations. The inspection reports shall incorporate and utilize a standardized City's rating system to be provided for comprehensive evaluation of pipeline, manhole condition, or both, i.e., a standardized listing of facility condition and defect codes. Pipe condition and fault information tied to pipe location shall also be recorded in the Report.
- iii. The file naming convention for video files consists of 32 characters, including the extension. The structure includes the following: "(field book page start)-(manhole ID start)-(field book page end)-(manhole ID end)-(hhddmmyy).wmv" where the field book pages and manholes IDs are 4 characters in length and hhddmmyy signifies the hour, day, month and year of the inspection, respectively. An example filename may be "F18S-0045-F18S-0046-14150604.wmv".
- iv. See Appendix for televising inspection pipe database structure, table formats and standardized city condition, defect codes and digital video filename. Final reports shall follow these requirements.

306-1.4.8.7 Tolerances.

- a) For underground sewer or storm drain conduit installations, the maximum operational tolerance for sag shall be 1/2". When televised inspection is used to check for sag, a calibrated 1/4" diameter steel bar, mounted in front of the camera, shall be used to measure the depth of sag.
- b) For rehab work, tolerances shall be in accordance with 500-1.4.9, "DEFECT TOLERANCES".
- c) If the Engineer determines that the deficiencies or sags are non-repairable in place, the affected portion(s) shall be reconstructed in accordance with 6-8, "COMPLETION, ACCEPTANCE, AND WARRANTY."

306-1.4.8.8 Payment. The payment for cleaning and televising sewer mains or laterals and storm drains shall be included in the unit price Bid items for cleaning and televising sewer mains and storm drains, televising sewer mains for final acceptance, or lateral launch videos. If a Bid item has not been provided, the payment shall be included in the payment for the proposed pipe.

306-1.6 Basis of Payment for Open Trench Installations. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Second paragraph, DELETE in its entirety and SUBSTITUTE with the following:

The unit price bid for pipe and conduit in place shall be considered full compensation for all wyes, tees, bends, monolithic catch basin connections, and specials shown on the Plans; the removal or restoration of interfering portions of existing sewers, storm drains, and existing improvements as shown on Plans; the closing or removing of abandoned conduit and structures; the excavations of the trench; the control of ground and surface waters; the preparation of subgrade; placing, joining and testing pipe; backfilling the trench; permanent resurfacing; disposal of excess excavation; temporary resurfacing when not a Bid item; and all other work necessary to install the pipe or conduit, complete in place.

Third paragraph, after the word "backfill" ADD: "disposal of all excess excavation,"

ADD the following:

- a) The Unit Price bid for thrust and anchor blocks shall include the payment for the thrust blocks and anchor blocks for water main 16" and larger.
- b) Thrust blocks and anchor blocks for water mains 12" and smaller shall be included in the Bid item for water mains.
- c) Payment for subsurface investigations e.g., potholing for thrust blocks and anchor blocks for water mains 16" and larger shall be included in the Bid item for water main.
- d) Payment for meter assembly shall be included in the various Bid items unless a pay item has been provided for Meter Assembly. The concrete pad, fence, gate, associated piping, and coordination with City Forces shall be included in the payment for the meter assembly.
- e) Payment for valves, fire hydrant assembly and marker, fire service assembly, fire service connection, and backflow preventer shall be included in the unit price Bid items for Valves, Fire Hydrant Assembly and Marker, Fire Service Assembly and backflow preventer, Fire Service Connection, and Backflow Preventer.
- f) Removal of existing Fire Hydrant and all appurtenant work shall be included in the Bid item for Fire Hydrant and Assembly and Marker.
- g) Payment for underdrains shall be included in the unit Bid item for "Underdrains."
- h) The quantity of filter fabric to be paid for will be measured in square yards of the area covered, not including additional fabric for overlap. The quantity of permeable material to be paid will be measured by tons.

306-1.7 House Connection Sewer (Laterals) and Cleanouts. To the City Supplement, 2nd paragraph, DELETE in its entirety and SUBSTITUTE with the following:

Laterals shall be replaced and shall include a cleanout at property line. Lateral connections at the property line shall be made with stainless steel shielded couplings. The Plans show the approximate location of the laterals. Connections at the main shall be made using a "wye" cut-in. Saddle connections shall not be permitted.

ADD: 306-13.2 Pipe Separations. Pipe installation shall be in compliance with the State's health standards for separation and the following:

- a) The Contractor shall notify the Engineer immediately if sewer and water pipes, whether existing or proposed, are found to be closer than 4' horizontally or 1' vertically.

- b) When a proposed water main is installed above an existing sewer main, no connection joints shall be within 8' outside the sewer main crossing on both sides.
- c) When a proposed water main is installed below an existing sewer main, no connection joints shall be within 10' of the sewer main crossing on both sides.
- d) When a proposed sewer main is installed above an existing water main, no connection joints shall be within 10' outside the water main crossing on both sides.
- e) When a proposed sewer main is installed below an existing water main, no connection joints shall be within 4' outside the water main crossing on both sides.
- f) Dimensions shall be measured from outside pipe wall to outside pipe wall.
- g) If 1' vertical separation cannot be maintained between proposed and existing utilities, 6" – 11" sand cushion per 200-1.5, "Sand" and 1" neoprene pad shall be installed as shown on Plans. The neoprene pad shall be 1" thick and wide enough to extend a minimum of 6" horizontally beyond the outside pipe wall. Neoprene pads shall have hardness between 50-70 durometers, as manufactured by Hoffmeyer Company, Industrial Rubber Supply, or approved equal. The neoprene pad shall be installed immediately below or on top of the existing utility. The sand cushion shall be placed between the neoprene pad and the proposed pipe.

306-13.3 Utility Crossings. To the City Supplement, DELETE in its entirety.

306-14 WATER SERVICES. To The City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

ADD: 306-14 WATER SERVICES. Each service shall have its own meter unless specified otherwise on the Plans. Water Services shall conform to 207-25, "POLYVINYL CHLORIDE (PVC) PRESSURE PIPE" and 207-26, "PIPE APPURTENANCES."

PART 6

SECTION 600-MODIFIED ASPHALT, PAVEMENTS AND PROCESSES

600-3.5 Field Sampling. ADD the following:

If the results of the aggregate grading, the sand equivalent, or both do not meet the requirements specified, the slurry represented by such tests shall be removed. If requested in writing by the Contractor and approved by the Engineer, the slurry may remain in place and the Contractor shall agree the payment for the RPME will be reduced by 15% of the Bid item for each failed test.

600-3.7 Measurement and Payment. To the Greenbook and City Supplement, DELETE in its entirety and SUBSTITUE with:

The pay quantity for REAS shall be per the square foot and shall include surface preparation, removals, sweeping, aggregate required in the mix design, pavement markers and striping in accordance with 312-4, "Measurement and Payment" and 310-5.6.10, "Measurement and Payment."

Payment reduction for noncompliance shall conform to 302-4.6.1 and 302-4.6.2.

PART 7 – WATER WORKS

SECTION 700 – WORK INVOLVING THE CITY FORCES.

To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

700-1 CITY FORCE WORK.

700-1.1 General.

- a) This subsection covers items of Work that involve coordination with and the services provided by the City Forces. The Contractor shall provide those services that are typically provided by the City Forces, in accordance with the applicable Specifications Specifications here if:
 1. additive alternates are awarded, or
 2. those services are shown on the Plans or in the Bridging Documents.
- b) The City Forces or the Contractor will be responsible for providing the residents with water service, by means of high-lining (i.e., temporary above ground supply lines), during construction as shown on the Plans.
- c) Only City Forces will isolate the water system, and perform all shutdowns by closing valves on water mains. Trial shutdowns will be performed by the City at all shutdown locations.
- d) The City's Public Utilities Department, (619) 527-7423, shall be notified by the Contractor 20 Working Days prior to beginning of Work that involves high-lining, cutting and plugging of, or making connection to the exiting water mains. The beginning of the Work shall be scheduled at the pre-construction meeting. The City is responsible for cost of the City Forces work. The Engineer will coordinate all interactions between the Contractor and the City Water Operations Division, the City Water Quality Laboratory, and other City organizations.
- e) The Work shall be done in accordance with the applicable AWWA standards and State Department of Public Health codes.
- f) The Contractor shall reconnect existing fire services and fire hydrants, after the acceptance of the new water main. The Contractor shall re-energize fire services and shall coordinate the Work with the property owner(s). The Contractor shall reconnect water services to the meters.

700-1.2 High-lining.

700-1.2.1 High-lining by the City Forces.

700-1.2.1.1 Furnishing Materials. If required in the Contract Documents and a separate Bid item is provided for Contractor furnished materials for City Force's highline work, the Contractor shall furnish the necessary materials for the City Forces' highline work as shown on the Plans to the City. The Contractor shall coordinate closely with the City Forces for the delivery of materials.

The delivery location for furnished materials shall be determined by the City Forces. No materials shall be delivered to the City until the City Forces are ready to construct their work. **Unless otherwise specified in the Contract Documents**, the City will retain the high-lining materials at the end of construction if the City performs the high-lining.

700-1.2.1.2 High-Lining Removed by the Contractor. If the City Forces are not available to remove the high-lining materials, the Engineer will direct the Contractor to pickup and deliver all the City high-lining materials to Water Operations Division at: Chollas Station, 2797 Caminito Chollas, San Diego, CA 92105.

The City's Water Utilities coordinator, (619) 527-7423, shall be contacted by the Contractor 5 Working Days before delivery of the high-lining material. After removal of high-lining materials, the Contractor shall repair all trenches created for the installation of the high-line and remove all excess temporary resurfacing materials. No high-lining materials shall be removed until the City Forces have disconnected the high-line from the water system.

700-1.2.1.3 Payment. The payment for the furnished material for the City Force high-line work shall cover materials (i.e., fittings, valves, and hardware) including delivery and unloading. The Contractor will be paid under the Bid item for "Contractor Furnished Materials for the City Forces High-line Work."

If the Contractor requests the City Forces to high-line in excess of what is shown on the Plans, those costs for high-lining will be borne by the Contractor and billed to the Contractor. Costs will be billed at the current hourly rates (loaded) according to the schedule available for the Public Utilities Department.

If high-lining by Contractor is awarded under "Additive Alternate," payment for high-lining removed by Contractor shall be included in the unit price bid for "High-lining by the Contractor". Otherwise, if the City Forces install the high-line system and the Contractor is requested to remove the high-lining and deliver at the City designated location, payment shall be in accordance with the unit price bid for "High-lining Removed by Contractor" in the base Bid.

700-1.2.2 High-lining by the Contractor. When required, the Contractor shall bypass sections of the existing water main line with a temporary above-ground supply line (high-line) as shown on the Plans and in phases shown on the Schedule.

- a) The Contractor shall furnish all high-line materials.
- b) The Contractor shall provide the Engineer a schedule for the high-line work at least 20 working days prior to work required by the City Forces (e.g., connections or disconnects).
- c) Contractor shall phase the Project such that all structures in the area are within 1,000 feet of an active fire hydrant, measured using streets, private roads, or other routes driven by emergency vehicles. Phases are required so that the high-line provides sufficient water pressure to affected properties.
- d) The Work includes shutoff valves at intersections to isolate sections of the high-line if there is a leak or break to minimize the water service shutdowns.

- e) The high-line system shall have a dual feed and provide continuous full service to connected water services until the new water main line is installed and in operation. The Work shall be coordinated, scheduled, and performed to minimize disruption of water services during installation and removal of the high-line system.
- f) The Contractor shall flush, disinfect, and leak test the high-line in accordance with the applicable codes and regulations prior to connection work beginning.
- g) The Contractor will perform connections to high-lining system and disconnects to meters and fire hydrants, after the City has verified the high-lining system has passed bacteriological testing.

Bacteriological sampling and testing will be performed by the City Water Quality Laboratory.

- h) The Contractor shall ensure proper installation, pressure control, or operation of the high-line to avoid damage to water users' property and related public health and safety issues.
- i) The Contractor shall transfer the new fire services and water services to the meter after the new mains have been accepted. While making the transfers the Contractor shall, once service is interrupted, diligently pursue the required work until service has been fully restored.
- j) The Contractor shall notify the Engineer 5 Working Days prior to any work that will affect water service. The Contractor shall prepare and distribute, after approval by the City, written notification 3 Working Days prior to starting Work on any water main that will affect service. This notification shall be delivered door-to-door to water users in the affected area. A copy shall be delivered to the Engineer on the date of user notification.

For each service connection, the Contractor shall also notify the customer immediately prior to beginning work which will interrupt service and will again notify the customer immediately after the service is restored.

The Contractor shall notify all consumers with fire services 20 Working Days in advance of any shutdown.

- k) The Contractor shall dismantle and remove the high-line system from the Site, and restore streets, gutters, fire hydrants, and other disturbed facilities and surface improvements within 5 Working Days from the time the reconnections are completed.
- l) Parallel mains, fire services and water services which are not high-lined shall be connected to the meter by the Contractor only after the adjacent sections of the new main have been fully constructed, hydrostatic and chlorine residual tested, and certified acceptable by the Public Utilities Department.
- m) Cleanliness of the main shall not be compromised; otherwise, the Engineer will decide whether re-disinfection is required at the Contractor's expense.

Services shall be thoroughly flushed by the Contractor prior to restoration of water supply to customer's premises.

700-1.2.2.1 Reference Specifications, Codes, and Standards. Reference specifications, codes, and standards shall be the latest unless a specific code issue date, edition, or adoption date is specified.

- a) The Work shall be in accordance with the applicable parts of the following codes and safety regulations:
 - i. Uniform Fire Code.
 - ii. Uniform Mechanical Code.
 - iii. Uniform Plumbing Code.
 - iv. City of San Diego Water and Municipal Sewer Approved Materials List, where applicable.
 - v. State Department of Public Health (previously known as DHS), Office of Drinking Water publication titled, "Approved for Service Isolation in California Public Water Systems."
 - vi. Applicable the City, local, state, and federal codes and regulations.

- b) The Work shall be in accordance with the following commercial and industrial standards:
 - i. ANSI/AWWA C606 - Grooved and Shouldered Pipe Joints.
 - ii. ASTM A53 - Specification for Pipe, Steel, Black and Hot-Dipped Zinc Coated, Welded and Seamless.
 - iii. ASTM A123 - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 - iv. ASTM A153 - Standard Specification for Zinc Coating (Hot-Dipped) on Iron and Steel Hardware
 - v. ASTM A307 - Specification for Carbon Steel Bolts and Studs, 6,000 PSI Tensile Strength.
 - vi. ASTM A395 & 536 - Specification for Snap-Joint Coupling grade 65 45-15 and grade 64-45-12 coating orange enamel.
 - vii. AWWA C511 - Standard for Reduced Pressure Principle Backflow Prevention Assembly.
 - viii. AWWA C651 - Disinfecting Water Mains

700-1.2.2.2 Submittals. Prior to the start of the Work, the Contractor shall submit the following in accordance with 2-5.3, "Submittals:"

- a) Itemized list of high-lining materials to be used, including information on:
 - i. which parts are new and which have been used before and,
 - ii. verification that used parts have only been used to convey potable water.

- b) Catalog data for all high-lining materials and components required.

- c) High-line system installation and detail drawings (i.e., shop and working drawings) prior to ordering or purchasing material.

- d) High-lining schedule prior to ordering or purchasing material of any part of the high-lining system.

- e) Traffic control drawings to Traffic Control Section and shall obtain a permit a minimum of 2 Working Days (5 Working Days when the work affects a traffic signal) prior to ordering or purchasing material of each phase of the high-lining system.

700-1.2.2.3 Quality Assurance. The high-lining system shall be flushed, tested for leaks, and disinfected in accordance with 700-1.2.2.7, “Start-Up Procedures” and shall pass the specified bacteriological tests prior to connection.

700-1.2.2.4 Materials. Materials may have been used previously, but shall be in good working condition, free of defect, and have only been used to convey potable water. The Contractor shall procure pipe, fittings, adapters, materials, and components required for a complete and operable high-lining system installation. Products and materials shall be suitable for the intended purpose and recommended by the manufacturer for the application intended. Hoses shall be used only at corners and curves and for connections to user’s service meter(s).

- a) Pipe. Pipes shall be fabricated largely in sections of 2” Galvanized steel pipe and conform to the following:
 - i. ASTM A53 or other equal ASTM galvanized pipe standard.
 - ii. Minimum wall thickness shall be Schedule 40 (0.154”).
 - iii. Pipe ends shall be machine cut or rolled for grooved couplings and fittings in compliance with ANSI/AWWA C606.
 - iv. Fittings and Couplings.
- b) Fittings and Couplings. Fittings shall be ductile iron. Fittings and couplings, including tees, wyes, elbows, , reducers, caps, plugs, and adapters, shall have standard flexible grooved mechanical joint connections in compliance with ANSI/AWWA C 606. Minimum pressure rating shall be 200 psig.
 - i. Housing material shall be ductile iron coated with the manufacturer’s standard painting system. Coupling gasket material shall be standard Ethylene-Polypropylene Diene Monomer (EPDM) rubber.
 - ii. Couplings shall be Victaulic Style 78 or approved equal.
 - iii. The branch outlet of reducing tees shall be 1” male pipe thread. Connections of standard tees shall be grooved.
 - iv. Grooved elbows with 11¼, 22½, 45 and 90-degree bend angles will be required to configure the high-line piping system to existing bends and contours at the Site.
 - v. Manufacturers: Victaulic, Mech-Line, or approved equal.
- c) Meter connections.
 - i. For meters up to 1” size, the connections shall be 90-degree, long radius, brass elbow couplings with a swivel meter nut on one end and male pipe threads on the other.
 - A. The swivel meter nut shall be sized to fit the specific meter. The male pipe thread end shall be fitted with a galvanized steel “Chicago” two (2)-lug, quarter-turn, quick disconnect hose fitting-to-female pipe thread fitting.
 - B. Manufacturers: James Jones Co., Ford Meter Box Co., Inc., or approved equal.
 - ii. For meters larger than 1”, the connections shall be elbows with a 2-bolt Class 125 flange on one end and female pipe threads on the other.

- A. The flange shall be sized to fit the specific meter. The female pipe thread end shall be fitted with a short pipe thread to grooved connection adapter nipple.
 - B. Alternately, the assembly can be a 2-bolt Class 125 flange-to-male pipe thread fitting, a threaded pipe elbow, and a short pipe thread-to-grooved connection adapter nipple.
 - C. Manufacturers: James Jones Co., Ford Meter Box Co., Inc., or approved equal.
 - D. Bushings, reducers, and adapters. The City Forces will be responsible for all fit-up and connections in the system. The Contractor shall provide all bushings, reducers, and adapters required to connect the high-line system to the existing fire hydrants, meters, and other facilities at the Site. Bushings, reducers, and adapters shall be provided at no additional cost to the City.
 - E. Pipe-to-hose adapters. For 1” hoses, the adapter shall be a 1”, galvanized steel, “Chicago” 2-lug, quarter-turn, quick disconnect hose-to-female pipe thread fitting.
 - F. Fire hydrant-to-pipe connectors, the actual connection to the live fire hydrant shall be a brass or bronze 1.5” female fire hydrant thread to 2” male pipe thread fitting.
- d) Bolts and Fasteners. Bolts and fasteners, including bolts, nuts, and washers, shall meet the minimum requirements of ASTM A 307, and shall be hot dipped galvanized according to ASTM A 153. Bolts shall be installed with nuts face down.
- e) Valves.
- i. Pipe shutoff valves shall be 2”, lever handle, two-position, manual butterfly valves with grooved mechanical connections in compliance with ASTM C 606. Minimum pressure rating shall be 200 psig.
 - A. Housing material shall be ductile iron coated with the manufacturer’s standard painting system. Seal material shall be standard EPDM rubber.
 - B. Manufacturers: Victaulic, Mech-Line, or approved equal.
 - ii. Curb stop valves shall be bronze full-port ball valves without handles.
 - A. Seats shall be molded Buna-N rubber or other approved material. The ball shall be Teflon-coated brass or bronze. Approved plastic ball materials will be considered as substitutes.
 - B. Size shall be 1-inch with female pipe thread connections. Other sizes and end connections may be required to accommodate specific user connections.
 - C. Manufacturers: James Jones Co., Ford Meter Box Co., Inc., A. Y. McDonald Mfg. Co., or approved equal.
- f) Hoses.
- i. User connection (Service Meters).

For meters up to 1”, the hose shall be a 1” standard general service air compressor hose with EPDM cover and 300 WP rating. End connections shall be galvanized steel, “Chicago” 2-lug, quarter-turn, quick disconnect fittings banded to the hose.

Manufacturer: Thermoid, or approved equal.

- ii. Curves and curbs.
Hose shall be 2” standard general service air compressor hose with EPDM cover and 300 WP rating. End connections shall be galvanized steel grooved mechanical end fittings in compliance with ASTM C606 banded to the hose.

Manufacturer: Thermoid, or approved equal.

g) Check Valves.

- i. Check valves shall be swing check type with grooved mechanical connections in compliance with ASTM C606. Minimum pressure rating shall be 200 psig.
- ii. Housing material shall be ductile iron coated with the manufacturer’s standard painting system. Seal material shall be standard EPDM rubber.
- iii. Manufacturers: Victaulic, Mech-Line, or approved equal.

h) Backflow Preventers.

- i. Shall meet the requirements of AWWA C511.
- ii. Manufacturer and model shall be approved by Department of Public Health (previously known as DHS).

i) Pressure Regulators.

- i. If required, the Contractor shall provide 2” pipe size of bronze or ductile iron construction. Materials, coatings, seals, diaphragms, and trim shall be approved for potable water service. Connections shall be pipe threaded union couplings.
- ii. Pressure ratings and regulation ranges shall be approved for the pressure zones involved.
- iii. Manufacturer: Braukmann or approved equal.

j) Temporary Asphalt (Coldmix). Temporary asphalt shall be provided by the Contractor on a unit price basis.

k) Pipe Supports.

- i. Shall be adjustable type and fabricated from galvanized carbon steel.
- ii. Manufacturers: Grinnell, Tolco, or approved equal.

700-1.2.2.5 Construction.

a) Authorization. The Contractor shall not order/purchase material of any part of the high-lining system without an approved submittal and written authorization by the Engineer.

b) Workmanship.

- i. Contractor workmanship shall meet the accepted standards of the trades involved.
- ii. High-lining system shall be installed and maintained such that it is neat, orderly, and leak-free, and shall be arranged to minimize interference with or present a hazard to normal usage of streets, sidewalks, driveways, and other affected facilities.
- iii. High-lining system shall be installed in such a manner that it does not cause flooding to the surrounding area.
- iv. Excess materials and debris shall be removed from the Site by the end of the Working Day on which they are generated.

- c) Water Users Notification. The Contractor shall coordinate the Work to minimize the duration of water shutdowns and outages.
- d) Emergency Telephone.
 - i. The 24-hour Emergency Services telephone number which shall be listed in user notifications, imprinted on safety barricades, and posted in the Work area shall be the Contractor's emergency number.
 - ii. On receipt of notification of a problem in the work area, the Contractor shall immediately notify the Engineer and Water Operations Division (City Forces). In case of emergency e.g., life threat, the Contractor shall contact Emergency Services.
- e) Repair and Maintenance.
 - i. The Contractor shall maintain the temporary asphalt ("coldmix") protective ramps for the duration of the high-line installation. Coldmix damage discovered or reported shall be repaired that same day by the Contractor.
 - ii. The Contractor shall repair and maintain the high-line system during Normal Working Hours.
 - iii. The Contractor shall provide replacement parts needed for highline repairs. Leaks or damage shall be repaired within one hour of discovery or reporting. These repair criteria shall apply to leaks or damage arising for any reason, including vandalism and damage by Contractor personnel, equipment, or work activities.
 - iv. If the repair involves any disassembly of the system, the Contractor shall disinfect and flush the affected components according to AWWA C651. This will be done in the presence of the City Public Utilities Department, Water Operations Division employee familiar with the water system.
 - v. Repair work shall be inspected and approved by the Engineer and the City Public Utilities Department, Water Operations employee familiar with the water system. At the sole discretion of the Engineer, the Contractor shall be billed separately for **non-responsive** or otherwise unacceptable repair and maintenance work that the City must do to restore any service.
- f) Problem Reporting. High-line system problems discovered or reported and corrective actions taken shall be documented in the Contractor's daily log and reported to the Engineer within 24 hours of the discovery or report.
- g) Traffic Control. The Contractor shall provide traffic control for all high-line work.
- h) Schedules and Timing.
 - i. The time required to furnish and install the high-lining system as a whole or in accordance with phases, shall be included in the Contract Time. The high-lining schedule shall be submitted to the Engineer for review and approval in accordance with 2-5.3, "Submittals."
 - ii. The Contractor shall coordinate high-lining operations such that the Project's Schedule is not affected or delayed
- i) Installation of High-line Piping System.
 - i. The high-line piping system shall be installed in accordance with the approved schedule.

- ii. Piping phases shall be installed in loop systems, with a fire hydrant connection to the water supply at each end.
 - iii. The high-line piping system shall be inspected and approved by the City Public Utilities Department, Operations Division familiar with the water system via the Engineer prior to the City Forces charging the system with potable water or connecting to any user service line.
 - iv. The high-line piping shall be installed along both sides of streets to supply water service connections to water meters. Meter service connection shall not be routed across a roadway, driveway, or other area subject to vehicular traffic.
 - v. Shutoff valves shall be installed at each fire hydrant connection, along the piping runs at the check valve, on either side of high-line tee fittings for user connections to all meters and at the ends of cul-de-sac blind runs to permit flushing. The lever handles shall be removed from the valves to prevent unauthorized operation.
 - vi. The 2-bolt grooved couplings shall be installed with the bolts oriented as shown on Figure 5, Typical Curb Piping Runs. This orientation permits the pipe to be laid closer to the curb and is less susceptible to damage by auto traffic. To prevent damage to auto tires, coupling bolts shall not extend beyond the thickness of the nut when installed and tightened.
- j) Fire Hydrant Connection.
- i. The fire hydrant connection shall be laid as shown in the Standard Drawings **or details included in the Contract Documents** for Fire Hydrant High-lining Connection. The Contractor shall make the final connection to the fire hydrant system.
 - ii. The Contractor shall use elbows of different bend angles as required to align the connection fittings parallel to the sidewalk or curb.
 - iii. In situations where the fire hydrant is located such that piping must cross a sidewalk, piping shall be routed under the sidewalk surface in a 6" wide x 6" deep saw cut trench by the Contractor. The trench backfill and temporary asphalt surface shall be tamped and compacted to provide a smooth, safe surface for the duration of the high-lining by the Contractor. Routing the pipe above the sidewalk shall not be permitted.
- k) User Connection (Service Meters).
- i. The Contractor shall furnish and install all material and labor as specified; the Contractor shall connect the water services to the system, see Standard Drawings or the **details included in the Contract Documents** for Residential User High-lining Connection.
 - ii. Connection to meters sized up to 1-inch shall be as shown in or the **details included in the Contract Documents** for Residential User High-lining Connection.
 - iii. Connection to meters 1½" and larger shall be made with 2" galvanized steel pipe with grooved connections.
 - iv. A shutoff valve in the user connection line shall be provided at the high-line tee fitting.
 - v. Meters 1½" and larger typically have 2-bolt flanged connections. Provide adapters as required to connect to specific meters.
 - vi. Sidewalk crossings may be routed above ground and ramped with temporary asphalt (coldmix), see Standard Drawings or the **details included in the Contract Documents** for Driveway High-lining Crossing or Curb Ramp High-lining Crossing, Typical Driveway or Handicapped Access Crossing, and as required elsewhere in this subsection.

- vii. Field cut, groove, and fit 2" galvanized steel pipe, as required to make user connections. Sections of the high-line piping shall be cut such that service tees are as close as possible to the user meters and service connection hose or piping length is minimized.
- viii. Provide barricades and cones as required by the approved Traffic Control Plan, at service tees and meters, and as required to ensure public safety.

l) Roadway Crossing and Trenching.

- i. Portions of the high-line system should be trenched and buried by the Contractor to avoid interference with roadways.
- ii. Wherever piping is required to cross a roadway, piping shall be routed below the roadway surface in a 6" wide x 6" deep (approximate dimensions) saw cut trench. Routing the pipe above the roadway shall not be permitted. The trench backfill and temporary asphalt surface shall be tamped and compacted to provide a smooth, safe surface for the duration of the high-lining.

m) Vehicle Driveway or Curb Ramp Crossing.

Wherever the high-line piping crosses a vehicle driveway or curb ramp crossing, the piping shall be provided with temporary asphalt crossing ramps as shown in the Standard Drawings or the **details included in the Contract Documents** for Typical Driveway or Curb Ramp Crossing. The temporary asphalt crossing ramps shall be tamped and compacted to provide a smooth, safe surface for the duration of the high-lining. The temporary asphalt crossing ramps shall be constructed such that they do not interfere with normal storm water or other drainage flows. They shall not divert drainage flows either into the street or onto adjacent properties. Where required to achieve proper drainage, sections of galvanized steel piping shall be installed in the crossing ramp parallel to the high-line piping to allow for drainage past the crossing ramp. Crossing ramp installations shall be inspected and approved by the Engineer

n) Corners and Curves.

- i. Routing the high-lining system around corners and curves shall typically be accomplished by use of 2" hose.
- ii. A 2" shutoff valve shall be installed at each end of the curve.
- iii. Portions of corners and curves with driveways or curb ramps shall be crossed with galvanized steel pipe as shown on the Standard Drawings or **the details included in the Contract Documents** for Driveway or Curb Ramp High-lining Crossing. Use of hose shall not be permitted at these crossings.
- iv. Corners and curves with bend radii too short to be accommodated by hose shall be routed with short sections of galvanized steel pipe and grooved elbows of different bend angles. Pipe shall be cut, grooved, and fitted in the field as required.
- v. Portions of the piping and fittings extending 12" or more from the curb shall be protected with temporary asphalt covering of not less than 1 inch thickness above the pipe and fittings. The temporary asphalt covering shall be sloped over the pipe and tamped in place to provide a durable surface.

700-1.2.2.7 Start-up Procedures.

- a) System leak test. The Contractor shall:
 - i. Charge the system with available water pressure, bleed the system of air, and verify that the entire system is filled.
 - ii. Visually inspect the system for leaks and repair any leaks discovered. The system will not be accepted by the Engineer until all leaks are repaired.

- b) Flushing, disinfection, and bacteriological testing of high-line mains.
 - i. The Contractor shall not use the high-lining system to fill and flush any main or piping.
 - ii. After the high-line system is fully assembled but not hooked-up to the consumer meters, the Contractor shall flush the piping with potable water from a commercial metered source until the effluent is clear and free of dirt and debris. The Contractor shall designate the disposal of flushing water via approved methods.
 - iii. The Contractor shall disinfect the high-lining piping according to AWWA C651 and 306-1.4.7, "Disinfection."
 - iv. The transport, storage, and handling of disinfection materials shall be in accordance with the CFR 1910.120, Hazardous Waste Operations and Emergency Response, CFR 49.12 Hazardous Materials Regulations, and the General Industry Safety Orders of the California Code of Regulations, Title 8, Section 5194.
 - v. Pipeline disinfection shall be accomplished with calcium hypochlorite tablets. Short pipe sections, valves, fittings, and similar small portions of the system shall be disinfected with a solution of sodium hypochlorite.
 - vi. The Contractor shall notify the Engineer 5 Working Days in advance of the date that the high-line system will be disinfected and ready for bacteriological testing.
 - vii. The City Water Quality Laboratory will collect samples from three points in the high-lining piping. Two points shall be from taps near the fire hydrant connections at each end, and one from a tap near the center of the piping.
 - viii. The City Water Quality Laboratory shall perform bacteriological testing in accordance with AWWA C651 and the City standards.
 - ix. The high-line system shall not be accepted until two consecutive sets of acceptable samples collected 24 hours apart pass tests administered by the City Water Quality Laboratory, and until written notice of acceptance is issued by the Engineer. The City Water Quality Laboratory shall be the sole judge as to whether or not the test samples meet or exceed the established test criteria.
 - x. In the event that the high-line piping system fails to pass the required bacteriological testing, the Contractor shall re-flush and re-disinfect the lines at no additional cost to the City. Disposal of chlorinated water shall be in accordance with the City standards and regulations. Indiscriminate disposal of chlorinated water shall not be permitted.
 - xi. On acceptance of bacteriological testing, the Contractor shall drain and flush the highline piping system according to AWWA C651 and the City standards. Disposal of chlorinated water shall be in accordance with the City standards and regulations. Indiscriminate disposal of chlorinated water will not be permitted.

- c) Restoration of Normal Service.
 - i. Flushing of the New Main Line. The Contractor shall not flush the new main line with water from the high-line system.

ii. User Hook-up to the New Main Line.

- A. Restoration of user service to the new water main line shall be done only after installation, disinfection, and bacteriological testing of the new water main line is verified by the City, and user connection lines are completed.
- B. Transfer of the water service from the high-line to the new water main line shall be performed by the Contractor.

700-1.2.2.8 Disassembly of High-line System.

- a) After restoration of normal service to water users, the Contractor shall disconnect high-lining from all services and breakdown and fully disassembles the high-line system and removes all high-line construction materials and debris from the area by the end of the Working Day.
- b) The Contractor shall remove all high-lining construction material and debris, and shall restore streets, curbs, gutters, sidewalks, fire hydrants, and other disturbed facilities in accordance with 7-9, "Protection and Restoration of Existing Improvements." Street resurfacing shall be restored in accordance with 302-6, "Portland Cement Concrete Pavement" and City of San Diego Standard Drawings.
- c) High-Lining Materials. High-lining materials shall become the Contractor's property.

700-1.2.2.9 Figures. The Contractor shall refer to the high-lining details **provided in the Contract Documents as appendix** or included as Standard Drawings.

ADD: 700-1.2.2.10 Payments. The Bid item provided for high-lining Work shall cover the Work described in 700-1.2.2, "High-lining by the Contractor" and include the following:

The lump sum bid item for "High-lining by the Contractor" shall be full compensation for furnishing all materials necessary to install the high-lining system, for installing the high-lining system complete and dismantling it after the restoration of normal service to water users, for connections including water services, restoration of the surface improvements, and maintaining and repairing the high-lining system during construction.

700-1.3 Connections to the Existing System. The City Forces will be responsible for making connections and cut-ins to the existing mains as part of the base Bid

700-1.3.1 Connection by the City Forces. The Contractor shall provide the following information about the main prior to connections:

- a) condition of pipes and valves,
- b) type of fitting and joint to which connection is to be made (i.e., construction), and
- c) alignment, elevation, and location of the water main and any fittings.

700-1.3.1.1 Connection by the City Forces When the City Forces Cut and Plug the Existing Main. The City Forces will isolate existing water main to be replaced by the Contractor. The City forces will mark location, elevation, and approximate grade of existing main on street pavement and record this information for future use. The Contractor shall consult and cooperate with the City Forces' supervisor to ensure that the information is understood and used correctly. Within the last 10' to be installed by the Contractor, the Contractor shall install bends, concrete thrust blocks, short lengths of pipe, and other appurtenances necessary to put the new installation on line and grade with the existing pipe.

700-1.3.1.2 Connection by the City Forces When the City Forces Do Not Cut and Plug the Existing Main. The Contractor shall expose the existing water main where the Work ends. The Contractor shall be responsible for determining the elevations of existing water mains and fittings. The new water main shall be at the same grade and parallel alignment as the existing main and shall be no farther away than 1' from the existing water main. At the option of the Contractor, one or two bends or pulled joints may be used to accomplish this condition.

700-1.3.1.3 Furnishing Materials. If required in the Contract Documents, the Contractor shall furnish the necessary materials for the City Forces' connection and cut-in work as shown on the Plans to the City. The Contractor shall coordinate closely with the City Forces for the delivery of materials. The delivery location for furnished materials shall be determined by the City Forces. No materials shall be delivered to the City until the City Forces are ready to construct the work, unless otherwise specified, in writing, by the City.

700-1.3.1.4 Pavement Restoration for the City Forces Final Connection. Within 10 days following the completion of the City Forces final connection work in the Project areas, the Contractor shall remove all temporary resurfacing, saw cut trench area, compact sub-grade and restore affected area with permanent resurfacing in accordance with 302-6, "Portland Cement Concrete Pavement" and City of San Diego Standard Drawings.

700-1.3.1.5 Payment. The payment for the furnished material for the City Force connection and cut-in work shall cover materials (i.e., fittings, valves, and hardware) including delivery and unloading. The Contractor will be paid under the lump sum Bid item for "Contractor Furnished Materials for City Forces Connection and Cut-in Work for Mains 16-inch and Larger."

Traffic control, saw cutting the trench area, trench cap, and other spot repairs in the vicinity of disturbed area at each restored connection shall be included in the Bid item for Pavement Restoration for the City Forces Final Connection. Asphalt Overlay and Slurry Seal will be paid under separate Bid items.

700-1.3.2 Connections to the Existing System by Contractor. If required in the Contract Documents, the Contractor shall make the connection (e.g., cut-in or tie-in) to the existing mains as shown on the Plans, specified in these specifications, and in conformance with the latest standards of the State Department of Public Health. Suitable facilities shall be provided by the Contractor for proper de-watering, drainage, and disposal of all water removed from the excavation and pipe without damage to adjacent property. The Contractor shall locate and expose the existing water main to which connection is to be made prior to and in advance of trenching to permit grade and alignment changes as approved by the Engineer. In the presence of the Engineer or an authorized City Public Utilities Department, Water Operations Division employee familiar with the water system), the Contractor shall make the connections as shown on the Plans regardless of the condition or location of the existing pipe, valves, and fittings with no adjustment in the Contract Price.

700-1.3.2.1 Submittals. The Contractor shall submit Shop Drawings, Working Drawings, and other information in accordance with 2-5.3, "Submittals" prior to start of construction. The drawings and other descriptive material shall adequately describe procedures to be used, materials to be furnished, any related pipeline appurtenances, and trench shoring. Each drawing shall be reproducible original, accompanied by 6 copies of all submitted information. If approved without change or correction, two approved copies will be returned to the Contractor. The Contractor shall include all time impacts of protecting the existing water main in the Schedule.

700-1.3.2.2 Utility Verification for Connection Location. The Contractor shall pothole the location and depth of all utilities to verify that there are no utility conflicts prior to excavation.

The Contractor shall locate and confirm vertical and horizontal locations, size, shape, materials, and construction of existing water mains.

700-1.3.2.3 Notification and Timing of Shutdowns. The Contractor shall coordinate the Work with the City Water Operations Division, and notify them a minimum of 20 Working Days after Engineer's approval of the Contractor's work plan and prior to any shutdown of an existing water line. The City Forces will perform all shutdowns including trial and final attempts. If the Contractor fails to keep the field appointments, the City will bill the Contractor for scheduled the City Forces waiting or standby time and the costs incurred by the City for notification of its customers for the subsequent appointment.

The Contractor shall schedule the requested shutdowns during low demand times. Unless otherwise shown on the Plans, the Contractor shall assume residential areas may be done during the day, and all commercial and industrial areas, including all areas with schools, or businesses, shall be shut down at night. The Contractor shall coordinate with the City's Public Utilities Department to verify the appropriate times prior to construction. The City may refuse to shutdown a water line on the day requested by the Contractor due to operational circumstances (e.g.,, business cannot withstand a shutdown of water at that time; other connecting distribution systems are out of service at the same time; high water demands by customers; etc.) or other reasonable concerns by the City. No request will be denied for arbitrary reasons.

The Contractor shall notify the Engineer 5 Working Days prior to any work that will affect water service. The Contractor shall prepare and distribute, after approval by the City, written notification 3 Working Days prior to starting Work on any water main that will affect service. This notification shall be delivered door-to-door to water users in the affected area. A copy shall be delivered to the Engineer on the date of user notification.

The Contractor shall notify all consumers with fire services 20 Working Days in advance of any shutdown.

700-1.3.2.4 Connection. Prior to connecting to existing water main, the Contractor shall have all personnel, material and equipment ready to connect the fittings to the existing mains to minimize the shutdown time. The City may postpone or reschedule any shutdown operation if for any reason the City determines that the Contractor is improperly prepared with competent personnel, equipment, or materials to proceed with the connection.

When installing a cut-in tee or cross with new valves, reducers or other fittings that is larger than the existing pipe, the new assembly shall be installed at the depth sufficient to allow the valve to remain below the subgrade of the street which may necessitate lowering the existing pipe. The Contractor shall provide and install the entire assembly -including valves and reducers and any other hardware necessary under the City inspection in accordance with the City Standards. The entire assembly shall be connected in advance to facilitate the expedient connection to existing main.

The Contractor shall clean and disinfect the connection in accordance with AWWA C651.

Shutdown of the water main and Connection operations shall be coordinated with high-lining operation and shall be completed within timeline specified in these specifications.

If Connection operation exceeds the time as identified in the notification, causes health and safety risks, or disruption of water service to the consumers, the Contractor shall notify the Engineer and the City's Station 38 at (619) 527-7660 for assistance to provide potable water and temporary high-lines to restore water to the affected consumers. The City will order necessary corrective measures. All costs for corrective measures shall be paid by the Contractor. The Contractor shall be liable to the City for the costs of the City Forces' emergency work.

If existing valves leak excessively once closed during the isolation of the segment that is going to be connected, the Contractor shall use methods at the Contractor's disposal to work with the resulting leakage. If the influx of water cannot be controlled with two 2-inch pumps sufficiently to complete the work, then the shutdown shall be rescheduled, as agreed upon by the City and Contractor.

700-1.3.2.5 Quality Control. The connection Work shall be in the presence of the Engineer or a Public Utilities Department, Water Operations Division employee familiar with the water system. The Contractor shall take every precaution necessary to prevent trench water, dirt or debris from entering the water mains during connection operation.

Under no circumstances shall a non-disinfected water main, which cannot be isolated and has not passed bacteriological test, be connected to an existing disinfected water main.

700-1.3.2.6 Operation of Valves. Valves on the City's water main system shall be cleaned and operated only by the City Forces. The Contractor may exercise valves on services as necessary to complete the Work.

700-1.3.2.7 Repair. If the water main is damaged by the Contractor's operations, the Contractor shall immediately notify the Engineer and the City Water Operations Division representative or the City's Station 38. The City Forces will perform all necessary repairs to the water main. The Contractor shall be liable to the City for the costs of the City Forces' repair work.

700-1.3.2.8 Compaction. Compaction of the trench after installation of the water main shall be in accordance with 306-1.3, "Backfill and Densification."

If the Work is located within a different jurisdiction or agency other than the City or private easement, compaction shall meet the requirements of that agency or utility granting the permit.

700-1.3.2.9 Surface Restoration. The Contractor shall restore to its original grade and condition surfaced areas in accordance with 7-9, "Protection and Restoration of Existing Improvements." After final connection is completed, the Contractor shall remove all temporary resurfacing, compact sub-grade and restore affected area with permanent resurfacing in accordance with 302-6, "Portland Cement Concrete Pavement" and City of San Diego Standard Drawings.

700-1.3.2.10 Payment. "Connection to The Existing System by the Contractor" e.g., cut-in or tie-in will be paid under Bid unit prices for connections, and cut-ins and include furnishing and installing all materials and labor to complete the work. Potholing for and protecting the water main while performing the Work, information essential for making the connection, coordination of Work with the City Forces, scheduling impacts, community outreach, materials and traffic control shall be included in the payment.

700-1.4 Cut and Plug of the Existing System by the Contractor. The cut and plugs of the existing system as part of the base Bid shall be performed by the City Forces.

700-1.4.1 Submittals. The Contractor shall submit Shop Drawings and Working Drawings and other information for the cut and plug of existing water mains in accordance with 2-5.3, “Submittals.” The submittals shall adequately describe procedures to be used e.g., distance from valves, thrust blocks for temporary plugs, materials to be furnished, any related pipeline appurtenances, and trench shoring. Each drawing shall be reproducible original, accompanied by 6 copies of all submitted information. If approved without change or correction, 2 approved copies will be returned to the Contractor. The Contractor shall include in the Schedule all time impacts to protect the existing water mains.

The Contractor shall submit traffic control drawings and obtain the Traffic Control Permit from the City prior to the start of the cut and plug and reconnection operations.

700-1.4.2 Utility Verification for Cut & Plug location. The Contractor shall pothole the location and depth of all utilities to verify that there are no utility conflicts prior to excavation.

The Contractor shall locate and confirm vertical and horizontal locations, size, shape, materials, and construction of existing water mains.

700-1.4.3 Notification and Timing of Shutdowns. The Contractor shall coordinate the Work with the City Water Operations Division, and notify them a minimum of 20 Working Days after Engineer’s approval and prior to any shutdown of an existing water line. The City Forces will perform all shutdowns. If the Contractor fails to keep the field appointments, the City will bill the Contractor for scheduled the City Forces waiting or standby time and the costs incurred by the City for notification of its customers for the subsequent appointment.

The Contractor shall schedule the requested shutdowns during low demand times, Unless otherwise shown on the Plans, the Contractor shall assume residential areas may be done during the day, and all commercial and industrial areas, including all areas with schools, or businesses, shall be shut down at night. The Contractor shall coordinate with the City’s Public Utilities Department to verify the appropriate times prior to construction. The City may refuse to shutdown a water line on the day requested by the Contractor due to operational circumstances (i.e., business cannot withstand a shutdown of water at that time; other connecting distribution systems are out of service at the same time; high water demands by customers; etc.) or other reasonable concerns by the City. No request will be denied for arbitrary reasons.

The Contractor shall notify the Engineer 5 Working Days prior to any work that will affect water service. The Contractor shall prepare and distribute, after approval by the City, written notification 3 Working Days prior to starting Work on any water main that will affect service. This notification shall be delivered door-to-door to water users in the affected area. A copy shall be delivered to the Engineer on the date of user notification.

The Contractor shall notify all consumers with fire services 20 Working Days in advance of any shutdown.

700-1.4.4 Cut and Plug. Prior to cutting and plugging of the existing water mains, the Contractor shall have all personnel, material and equipment ready to minimize the shutdown time. The Contractor shall organize its workforce, equipment and operations to protect the existing water main while performing the Work.

Shutdown of water main and cut and plug operations shall be coordinated with high-lining operation and shall be performed during low demand times and shall be completed within the timeline specified in these specifications.

After isolation of the mains, rarely does a completely dry condition exist in the trench. If the existing valves leak excessively once closed *during the isolation of the segment that is going to be plugged*, the Contractor shall use methods at Contractor's disposal to work with the resulting leakage. If the influx of water cannot be controlled with two 2-inch pumps sufficiently to complete the work, then the shutdown shall be rescheduled, as agreed upon by the City and Contractor.

If the cut and plug operation exceeds the time as identified in the notification or causes health and safety issues or disruption of water service to the consumers, the Contractor shall notify the Engineer and the City's Station 38 at (619) 527-7660 for assistance. The City will provide potable water and or temporary high-lining to restore water to the affected consumers. The City will order necessary corrective measures.

All costs for corrective measures shall be paid by the Contractor. The Contractor shall be liable to the City for the costs of the City Forces' emergency work.

700-1.4.5 Quality Control. Cut and plug of existing water lines shall be completed in a safe, neat and orderly manner. Plugs shall be capable of blocking pressurized main with no visual leak detected. The Contractor shall take every precaution necessary to prevent trench water, dirt or debris from entering the water mains during the capping or plugging operation.

Cut and plug shall not proceed if the City Public Utilities Department, Operations Division employee familiar with the water system is not present for the duration of the cut and plug.

After the cut and plug operation, the water main and appurtenances shall be disinfected and field tested by the Contractor in accordance with the latest edition of AWWA C651. The City Forces shall take water samples for bacteriological tests in accordance with Section 7 of the AWWA C651.

Suitable facilities shall be provided for proper de-watering, drainage, and disposal of all water removed from the excavation or pipe without damage to adjacent property.

700-1.4.6 Operation of Valves. Valves on the City's water system shall be cleaned and operated only by the City Forces. The Contractor shall exercise valves on services as necessary to complete the Work.

700-1.4.7 Repair. If the water system is damaged by the Contractor's operations, the Contractor shall immediately notify the Engineer and the City's Station 38 or the City Water Operations Division representative. The City Forces will perform all necessary repairs to the water main. The Contractor shall be liable to the City for the City Forces' work for the repair.

700-1.4.8 Surfaced Areas Impacted by Cut & Plug. Surfaces impacted by excavation to install cut and plug shall be temporarily backfilled, resurfaced, and maintained.

700-1.4.9 Payment. Locating e.g., potholing for and protecting the water main, coordination of Work with the City Forces, any scheduling impacts, community outreach, furnishing and installing materials, and traffic control shall be included in the unit price payment for "Cut and Plug of The Existing System by the Contractor."

ADD: PART 8 – ENVIRONMENTAL WORKS

SECTION 801 – WATER POLLUTION CONTROL

801-2.9 Post-Construction Requirements. To the City Supplement second paragraph, ADD the following:

The decal-disc inlet markers shall be “das Duracast Curb Marker®” or approved equal.

801-9.3 BMP Requirements. To the City Supplement, ADD the following:

- c) WTAP shall be required when the Project exceeds the Maximum Disturbed Area Requirements unless the grading Work is performed in phases that do not exceed the limit shown on the Plans per phase.

SECTION 804 – SEWAGE SPILL PREVENTION

To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

804-1 GENERAL. The Contractor shall observe and comply with the City’s policy of zero spills. **The Contractor shall be liable for all damages and fines associated with sewage spills caused by improper support or damage to the existing sewer facilities.**

The Contractor shall designate a person responsible for the development and enforcement of the Sewage Spill Response Plan, and for ensuring sewer spills are minimized to the maximum extent possible. The Contractor shall provide a status of all bypass related work at biweekly progress meetings as requested by the City.

804-2 SEWAGE SPILL PREVENTION AND RESPONSE PLAN. Prior to the start of construction, the Contractor shall develop and submit to the Engineer, for review and approval, a written Sewage Spill Prevention and Response Plan. The plan shall include sewage spill response plan, spill containment and cleanup plan, staging area, and sewage bypass and pumping plan.

The Sewage Spill Prevention and Response Plan shall be developed to respond to any construction related sewage spill(s). The plan shall include:

- a) Identifying all nearby environmentally-sensitive areas such as waterways, channels, catch basins and entrances to existing underground storm drains.
- b) Making arrangements for an emergency response unit, stationed at or near the Site, comprised of emergency response equipment and trained personnel to be immediately dispatched in the event of a sewage spill(s). This includes field biologists, archaeologists, or both if in an environmentally-sensitive area such as a canyon.
- c) Developing an emergency notification procedure that includes an emergency response team with telephone numbers and arrangements for backup personnel and equipment. The emergency response unit shall be able to dispatch to the Site 24 hours a day 7 days a week including weekends and holidays. The Contractor shall designate primary and secondary representatives, their respective phone numbers, pager numbers, and mobile phone numbers. These Contractor’s representatives shall be accessible and available at all times to respond immediately to any sewer spill event.

- d) Identifying any property owners who may be affected e.g., the City Park and Recreation Department.

At the pre-construction meeting the Contractor will be provided with a list of the City representatives to contact in case of sewage spill(s). In case of a sewage spill(s), the Contractor shall immediately call the Sewage Spill Hotline number at (619) 527-5481 and shall act immediately without instructions from the City, to control the spill and take all appropriate steps to contain it in accordance with the Sewage Spill Prevention and Response Plan and 804-2.1, "Sewage Bypass and Pumping Plan." The Contractor shall immediately notify the City representatives of the spill and shall report Project name, location, Contractor name, Project Engineer, and Engineer names.

The Contractor shall, within 3 Working Days from the occurrence of the spill, submit to the Engineer a written report describing the following information related to the spill: the location; the nature and estimated volume; the date and time; the duration; the cause; the type of remedial and/or clean up measures taken (including erosion control measures) and the date and time of implementation; the corrective and/or preventive actions taken to avoid further spills; equipment used in spill response; and the environmentally-sensitive habitat such as a water body, if any, impacted and results of any necessary monitoring. The Contractor shall provide a list of who from the City was notified, date and time of notification, date and time the Contractor was notified of the spill, date and time the Contractor arrived on Site.

The Engineer may institute further corrective actions, as deemed necessary, to fully comply with existing laws, ordinances, codes, order or other pertinent regulations. In addition to any penalties provided by federal, state, and local laws, the Contractor shall be responsible for all costs incurred for the corrective actions including mitigation measures (habitat restoration, etc.) and obtaining after-the-fact permits if necessary, in environmentally sensitive areas. These permits include but are not limited to those from the City Planning Department Development Services, California Coastal Commission, U.S. Army Corps of Engineers and the California Department of Fish and Game.

It shall be the Contractor's responsibility to assure that all field forces, including Subcontractors, know and obey all safety and emergency procedures, including the Sewage Spill Prevention and Response Plan applicable to the work, to be maintained and followed at the Site. If in an environmentally sensitive area, such as canyon, stream, or lagoon, impacts shall be minimized. Crews shall be aware at the start of the job of any sensitive environmental habitats, breeding season restrictions, etc.

The Contractor shall prevent spills when working on sewer lines, such as when making temporary connection, when connecting new lines into the sewer system, ensuring no laterals are connected to mains being abandoned, ensuring diversions are appropriately installed, and diversions are completely removed when finished so there are no blockages. The Contractor shall not trap debris and discharge rock or debris downstream. Avoidance of streams is paramount unless authorized via permits.

The Contractor shall defend, indemnify, protect, and hold harmless the City, its agents, officers, and employees, from and against all claims asserted, or liability established for damages or injuries to any person or property resulting from any sewage spill caused or claimed to be caused by the Contractor's action or failure to take measures to prevent a spill. **The Contractor shall be responsible for payment of any fines assessed against the City for such sewage spills.** The Contractor's duty to indemnify and hold harmless shall not include any claims or liability arising from the established active or sole negligence or willful misconduct of the City, its agents, officers or employees.

The Contractor shall obtain and maintain an additional insurance coverage for Pollution Liability with its limits and requirements as set forth in 7-3.5.3, “Contractors Pollution Liability Insurance Endorsements.” The limits and requirements for Pollution Liability shall be in an amount sufficient to cover potential losses from sudden and accidental pollution. Unless otherwise provided for in the Bid Proposal, all costs associated with the requirements for Sewage Spill Prevention and Response Plan, including additional insurance, shall be included in the prices for other related Bid items.

804-2.1 Sewage Bypass and Pumping Plan. The Contractor shall submit to the Engineer for approval, a Sewage Bypass and Pumping Plan at least 15 Working Days prior to implementation of flow diversion in compliance with the City’s policy of “ZERO SPILLS.” The Sewage Bypass and Pumping Plan shall indicate the sequence of diversion operations, all other operations the Contractor will establish to maintain wastewater service during the construction period, and a quality assurance and quality control plan for the diversion Work. The Sewage Bypass and Pumping Plan shall include an emergency response plan indicating the procedures, equipment, and activities that will be implemented in the event of an emergency shutdown or failure of the flow diversion equipment used for construction. The Contractor shall be responsible for implementation of the emergency plan in accordance with 804-2 “Sewage Spill Prevention and Response Plan”.

The Contractor’s Sewage Bypass and Pumping Plan shall be reviewed and approved by the Wastewater Collection Division of the City before flow can be diverted. No deviation from the approved Sewage Bypass and Pumping Plan will be allowed without prior approval from the Engineer.

The Contractor shall observe and comply with all Federal, State, and local laws, ordinances, codes, orders, and regulations which in any manner affect the conduct of the work, specifically as it relates to sewage spills. The Contractor shall be fully responsible for preventing sewage spill(s), containing any sewage spill(s), recovery and legal disposal of any spilled sewage, any fines, penalties, claims and liability arising from negligently causing a sewage spill(s), and any violation of any law, ordinance, code, order, or regulation as a result of the spill(s).

The Contractor shall exercise care not to damage existing public and private improvements, interrupt existing services or facility operations which may cause a sewage spill(s). Any reasonably anticipated utility or improvement which is damaged by the Contractor shall be immediately repaired at the expense of the Contractor. In the event that the Contractor damages an existing utility or interrupts an existing service, which causes a sewage spill(s), the Contractor shall immediately call the emergency number at (619) 515-3525.

The Contractor shall exercise care not to damage any sensitive habitats or historic resources unless authorized via the discretionary permit and Mitigation, Monitoring and Reporting Program approved by the City.

The Contractor shall provide all facilities, labor, power, and appurtenances necessary to divert wastewater flows as necessary to allow proper installation of the pipeline and/or manhole linings.

The Contractor shall submit as part of their Sewage Bypass and Pumping Plan their monitoring procedure and frequency and shall continuously monitor the flow levels downstream and upstream of the flow diversion to detect any possible failure that may cause a sewage backup and spill(s). The Contractor shall maintain a log of the monitoring and provide daily copies to the Engineer in a manner acceptable to the Engineer.

The Contractor shall inspect and maintain the diversion system daily, including the back-up system. The Contractor shall submit with their Sewage Bypass and Pumping Plan their maintenance procedures and frequency. The Contractor shall maintain a log of all inspection, maintenance and repair records, and provide copies to the Engineer upon request in a manner acceptable to the Engineer.

The Contractor shall size the flow diversion system to handle the peak flow and shall include a 100% backup in the flow diversion system. The Contractor shall provide temporary means to maintain and handle the sewage flow in the existing system as required to complete the necessary construction. The Contractor shall utilize the flow diversion system to mitigate any additional wet weather flows, perform the necessary maintenance and repairs on the flow diversion system, and exercise and ensure the operation of the backup system. Each pump, including the backup pumps, shall be a complete unit with its own suction and discharge piping. The Contractor shall operate the backup flow diversion system for a minimum of 25% of the total diversion time on a weekly basis. The backup flow diversion system shall be fully installed, operational, and ready for immediate use. The diversion system shall be hydraulically tested with clean water prior to wastewater flow diversion. The Contractor shall demonstrate to the satisfaction of the Engineer that both the primary and backup flow diversion systems are fully functional and adequate, and shall certify the same, in writing, to the Engineer in a manner acceptable to the Engineer.

The Contractor shall provide one dedicated fuel tank for every single pump or generator, if fuel or generator driven pumps are used. The Contractor shall provide an emergency standby power generator, if electric power driven pumps are used. The Contractor shall provide a fuel level indicator outside each fuel tank. The Contractor shall continuously (while in use) monitor the fuel level in the tanks and ensure that the fuel level does not drop below a level equivalent of two hours of continuous flow diversion system operation. The Contractor shall take the necessary measures to ensure the fuel supply is protected against contamination. This includes but is not limited to fuel line water traps, fuel line filters, and protecting fuel stores from precipitation. The Contractor shall monitor all hoses and repair leaks immediately.

804-2.2 Payment Unless a Bid item has been provided, full compensation for the Sewage Bypass and Pumping Plan, its implementation e.g., labor, facilities, equipments, power, appurtenances and incidental, shall be included in the payment for sewer main.

SECTION 807 – RESOURCE DISCOVERIES

ADD: 807-1.1 Environmental Document. The City of San Diego Environmental Analysis Section (EAS) of the Development Services Department has prepared a Mitigated Negative Declaration (MND) for **Sewer and Water Group 723**, Project Number 6166, as referenced in the Contract Appendix. The Contractor shall comply with all requirements of the MND as set forth in Contract Appendix.

Unless a separate Bid item has been provided for compliance with the City's prepared environmental document e.g., MMRP, payment shall be included in the various Bid items.

807-1.2 Archeological and Native American Monitoring Program. To the City Supplement, DELETE in its entirety and SUBSTITUTE within the following:

Unless specified otherwise in the Contract Documents, the Contractor shall retain a qualified archaeologist approved by the City's Environmental Analysis Section (EAS). In addition to being approved by EAS, and within 5 working days of the bid opening, the Contractor must provide a list of

3 successful local projects the archaeologist completed in the last 5 years, and provide a current reference for each. The City shall verify the information provided and only qualified monitors shall be accepted. The archeologist shall retain the appropriate Native American representative. Archeologist and the Native American representative shall attend the pre-construction meeting. The areas shown on the Plans subject to monitoring are approximate. The archaeologist shall confirm the sites and implement the required monitoring per Contract Appendices.

If a discovery is made, the Contractor's archaeological monitor shall make a determination as to whether excavation in the area must cease or can continue. The time the Contractor waits for this determination from their monitor cannot be claimed as delay time.

Unless included in the payment for the proposed item of Work e.g., utility main, the full compensation for archaeological and Native American monitoring program and report preparation, as prescribed in Contract Appendices, shall be included in the contract Bid item for archaeological and Native American monitoring program.

If any significant archaeological sites are known to exist in the project area, they will be shown in the Archaeological Data Recovery Program as part of Appendix A. In the event of a significant discovery, foreseen or unforeseen, and if no bid item for Archaeological and Native American Mitigation and Curation is included in the Contract, the Contractor shall be entitled to additional compensation in accordance with 3-3, "Extra Work", for implementation of a Mitigation Program as set forth in Contract Appendices.

807-1.3 Paleontological Monitoring Program. To the City Supplement, DELETE in its entirety and SUBSTITUTE within the following:

Unless specified otherwise in the Contract Documents, the Contractor shall retain a qualified paleontologist approved by EAS. In addition to being by approved by EAS, and within 5 working days of the bid opening, the Contractor must provide a list of 3 successful local projects the archaeologist completed in the last 5 years, and provide a current reference for each. The City shall verify the information provided and only qualified monitors shall be accepted. The paleontologist shall attend the pre-construction meeting. The areas shown on the Plans subject to monitoring are approximate. The paleontologist shall confirm the sites and implement the required monitoring in Contract Appendices.

Unless included in the payment for the proposed item of Work e.g., utility main, the full compensation for paleontological monitoring program and report preparation, as prescribed in Contract Appendices, shall be included in the Contract Bid item for paleontological monitoring program.

If a discovery is made, the Contractor's paleontological monitor shall make a determination as to whether excavation in the area must cease or can continue. The time the Contractor waits for this determination from their monitor cannot be claimed as delay time.

In the event of a significant discovery, and if no bid item for Paleontological Mitigation and Excavation is included in the Contract, the Contractor shall be entitled to additional compensation in accordance with 3-3, "Extra Work," for implementation of a Mitigation Program as set forth in Contract Appendices.

807-1.4 Archaeological and Native American Mitigation and Curation. To the City Supplement, DELETE in its entirety and SUBSTITUTE within the following:

In the event of a significant Native American or archaeological discovery foreseen or unforeseen and after consultation with EAS staff, the Contractor shall implement a mitigation program as set forth in Contract Appendices. In accordance with the Mitigation and Monitoring Reporting Program, the mitigation program shall include but not be limited to, preparation and implementation of an Archaeological Data Recovery Program (ADRP), recovery, sorting, cleaning, cataloging/identifying/analyzing, curation (bagging, placement into archival boxes, delivery to an appropriate institution, and any fees required by the institution), and reporting, of artifact remains. The Archaeological Principal Investigator (PI) as defined in the MMRP shall make a recommendation if all or a portion, (i.e. representative sample) of the items discovered need to be curated.

Work for mitigation shall be paid from the Allowance Bid item for Archaeological and Native American Mitigation and Curation. The Contractor shall provide the Engineer with invoices for the Work performed, including the invoice from the archaeological monitor in the format shown in the attached Appendix, and be reimbursed from the amount allocated.

If there is an ADRP or known site that is indicated in the Contract Documents, the payment shall be included in the Allowance Bid item for Archeological and Native American Mitigation and Curation.

END OF SUPPLEMENTARY SPECIAL PROVISIONS (SSP)

APPENDIX A

Mitigated Negative Declaration



Land Development
Review Division
(619) 446-5460

Mitigated Negative Declaration

Project Number 6166

SUBJECT: Sewer and Water Group 723: CITY COUNCIL APPROVAL to allow for replacement and/or realignment of approximately 8,220 linear feet (1.5 miles) of new eight-inch sewer main in existing city right-of-way replacing the existing six-inch concrete piping, and installation of approximately 1,000 linear feet of new water main. Approximately 1,951 linear feet of existing sewer main would be sealed and abandoned in place. The project is located in the Peninsula Community Planning Area, Airport Environs Overlay Zone, Council District 2. Applicant: City of San Diego, Engineering and Capital Projects Department, Wastewater Facilities Division.

- I. PROJECT DESCRIPTION: See attached Initial Study.
- II. ENVIRONMENTAL SETTING: See attached Initial Study.
- III. DETERMINATION:

The City of San Diego conducted an Initial Study which determined that the proposed project could have a significant environmental effect in the following areas: **water quality, archaeological resources** and **paleontological resources**. Subsequent revisions in the project proposal create the specific mitigation identified in Section V of this Mitigated Negative Declaration. The project as revised now avoids or mitigates the potentially significant environmental effects previously identified, and the preparation of an Environmental Impact Report will not be required.

- IV. DOCUMENTATION:

The attached Initial Study documents the reasons to support the above Determination.

- V. MITIGATION, MONITORING AND REPORTING PROGRAM:

- A. **General** - The following mitigation measures shall be noted on the construction/grading plans submitted included under the heading, "Environmental Mitigation Requirements."

B. Historical Resources (Archaeology)

Prior to Preconstruction (Precon) Meeting

1. Land Development Review (LDR) Plan Check

Prior to the Precon Meeting, the Environmental Review Manager (ERM) of LDR shall verify that the requirements for Archaeological Monitoring and Native American monitoring, if applicable, have been noted on the appropriate construction documents.

2. Letters of Qualification have been Submitted to ERM

Prior to the Precon Meeting, the applicant shall provide a letter of verification to the ERM of LDR stating that a qualified Archaeologist, as defined in the City of San Diego *Historical Resources Guidelines* (HRG), has been retained to implement the monitoring program.

3. Second Letter Containing Names of Monitors has been sent to Mitigation Monitoring Coordination (MMC).

a. At least thirty days prior to the Precon Meeting, a second letter shall be submitted to MMC which shall include the name of the Principal Investigator (PI) and the names of all persons involved in the Archaeological Monitoring of the project.

b. MMC will provide Plan Check with a copy of both the first and second letter.

4. Records Search Prior to Precon Meeting

At least thirty days prior to the Precon Meeting the qualified Archaeologist shall verify that a records search has been completed and updated as necessary and be prepared to introduce any pertinent information concerning expectations and probabilities of discovery during trenching and/or grading activities. Verification includes, but is not limited to, a copy of a confirmation letter from South Coast Information Center, or, if the search was in-house, a letter of verification from the PI stating that the search was completed.

Precon Meeting

1. Monitor Shall Attend Precon Meetings

a. Prior to beginning any work that requires monitoring, the Applicant shall arrange a Precon Meeting that shall include the Archaeologist, Construction Manager and/or Grading Contractor, Resident Engineer (RE), Building Inspector (BI), if appropriate, and MMC. The qualified Archaeologist shall

attend any grading related Precon Meetings to make comments and/or suggestions concerning the Archaeological Monitoring program with the Construction Manager and/or Grading Contractor.

- b. If the Monitor is not able to attend the Precon Meeting, the RE or BI, if appropriate, will schedule a focused Precon Meeting for MMC, EAS staff, as appropriate, Monitors, Construction Manager and appropriate Contractor's representatives to meet and review the job on-site prior to start of any work that requires monitoring.

2. Units of Measure and Cost of Curation for CIP or Other Public Projects

Units of measure and cost of curation will be discussed and resolved at the Precon Meeting prior to start of any work that requires monitoring.

3. Identify Areas to be Monitored

At the Precon Meeting, the Archaeologist shall submit to MMC a copy of the site/grading plan (reduced to 11x17) that identifies areas to be monitored as well as areas that may require delineation of grading limits.

4. When Monitoring Will Occur

Prior to the start of work, the Archaeologist shall also submit a construction schedule to MMC through the RE or BI, as appropriate, indicating when and where monitoring is to begin and shall notify MMC of the start date for monitoring.

During Construction

1. Monitor Shall be Present During Grading/Excavation

The qualified Archaeologist shall be present full-time during grading/excavation of native soils and shall document activity via the Consultant Site Visit Record. This record shall be sent to the RE or BI, as appropriate, each month. The RE, or BI as appropriate, will forward copies to MMC.

2. Monitoring

Trenches Will Include Mainline, Laterals, and all Appurtenances

Monitoring of trenches is required for the mainline, laterals, services and all other appurtenances that impact native soils one foot deeper than existing as detailed on the plans or in the contract documents identified by drawing number or plan file number. *It is the Construction Manager's responsibility to keep the monitors up-to-date with current plans.*

3. Discoveries

a. Discovery Process

In the event of a discovery, and when requested by the Archaeologist, or the PI if the Monitor is not qualified as a PI, the RE or BI, as appropriate, shall be contacted and shall divert, direct or temporarily halt ground disturbing activities in the area of discovery to allow for preliminary evaluation of potentially significant archaeological resources. The PI shall also immediately notify MMC of such findings at the time of discovery. MMC will coordinate with appropriate LDR staff.

b. Determination of Significance

The significance of the discovered resources shall be determined by the PI in consultation with LDR and the Native American Community, if applicable. LDR must concur with the evaluation before grading activities will be allowed to resume. For significant archaeological resources, a Research Design and Data Recovery Program shall be prepared, approved by DSD and carried out to mitigate impacts before ground disturbing activities in the area of discovery will be allowed to resume.

c. Minor Discovery Process for Pipeline Projects

For all projects: The following is a summary of the criteria and procedures related to the evaluation of **small historic deposits** during excavation for pipelines.

(1) Coordination and Notification

- (a) Archaeological Monitor shall notify RE, or BI, as appropriate, PI, if monitor is not qualified as a PI, and MMC.
- (b) MMC shall notify the Senior Planner in the Environmental Analysis Section (EAS) of DSD.
- (c) MMC shall coordinate all historic discoveries with the applicable Senior Planner, PI and the RE, to determine the appropriate level of evaluation that should occur.

(2) Criteria used to Determine if it is a Small Historic Deposit

- (a) The deposit is limited in size both in length and depth; and,
- (b) The information value is limited and is not associated with any other resources; and,
- (c) There are no unique features/artifacts associated with the deposit.

- (d) A preliminary description and photographs, if available, shall be transmitted to MMC.
- (e) MMC will forward the information to EAS for consultation and verification that it is a small historic deposit.

(3) Procedures for documentation, curation and reporting

The following constitutes adequate mitigation of a small historic deposit to reduce impacts due to excavation activities to below a level of significance.

- (a) 100% of the artifacts within the trench alignment and width shall be documented in-situ, to include photographic records, plan view of the trench and profiles of side walls, recovered, photographed after cleaning and analyzed and curated.
- (b) The remainder of the deposit within the limits of excavation (trench walls) shall be left intact.
- (c) If site significance can not be determined, the Final Results Report and Site Record (DPR Form 523A/B) shall identify the deposit as "potentially significant."
- (d) The Final Results Report shall include a requirement for monitoring of any future work in the vicinity.

4. Human Remains

If human remains are discovered, work shall halt in that area and procedures set forth in the California Public Resources Code (Sec. 5097.98) and State Health and Safety Code (Sec. 7050.5) as follows:

a. Notification

- (1) Archaeological Monitor shall notify the RE or BI as appropriate, PI, if the Monitor is not qualified as a PI, and MMC. MMC will notify the appropriate Senior Planner in the Environmental Analysis Section (EAS).
- (2) The PI shall notify the County Coroner after consultation with the RE, either in person or via telephone.

b. Stop work and isolate discovery site

- (1) RE or BI, as appropriate, shall stop work immediately in the location of the discovery and any nearby area reasonably suspected to overlay adjacent human remains until a determination can be made by the County Coroner in consultation with the PI concerning the origin of the remains and the cause of death.

- (2) The County Coroner, in consultation with the PI, shall determine the need for a field investigation to examine the remains and establish a cause of death.
 - (3) If a field investigation is not warranted, the PI, in consultation with the County Coroner, shall determine if the remains are of Native American origin.
- c. If Human Remains are Native American
- (1) The Coroner shall notify the Native American Historic Commission (NAHC). By law, **ONLY** the Coroner can make this call.
 - (2) NAHC will identify the person or persons it believes to be the Most Likely Descendent (MLD).
 - (3) The MLD may make recommendations to the land owner or PI responsible for the excavation work to determine the treatment, with appropriate dignity, of the human remains and any associated grave goods (PRC 5097.98).
- d. If Human Remains are not Native American
- (1) The PI shall contact the NAHC and notify them of the historical context of the burial.
 - (2) NAHC will identify the person or persons it believes to be the MLD.
 - (3) The MLD may make recommendations to the land owner or PI responsible for the excavation work to determine the treatment of the human remains (PRC 5097.98).
 - (4) If the remains are of historic origin, they shall be appropriately removed and conveyed to the Museum of Man for analysis. The decision for reinterment of the human remains shall be made in consultation with MMC, EAS, the land owner, the NAHC and the Museum of Man.
- e. Disposition of Human Remains
- The land owner, or his authorized representative, shall reinter the Native American human remains and any associated grave goods, with appropriate dignity, on the property in a location not subject to further subsurface disturbance, IF:
- (1) The NAHC is unable to identify the MLD, OR the MLD failed to make a recommendation within 24 hours after being notified by the Commission;
OR;

- (2) The landowner or authorized representative rejects the recommendation of the MLD and mediation in accordance with PRC 5097.94 (k) by the NAHC fails to provide measures acceptable to the landowner.

5. Night Work

a. If night work is included in the contract

- (1) When night work is included in the contract package, the extent and timing shall be presented and discussed at the precon meeting.
- (2) The following procedures shall be followed.

(a) No Discoveries

In the event that nothing was found during the night work, The PI will record the information on the Site Visit Record Form.

(b) Minor Discoveries

All Minor Discoveries will be processed and documented using the existing procedures under **During Construction; 3. c.**, for Small Historic Discoveries, with the exception in **During Construction; 3. c. (1)(a)**, that the PI will contact MMC by 9 A.M. the following morning.

(c) Potentially Significant Discoveries

If the PI determines that a potentially significant discovery has been made, the procedures under **During Construction; 3. a. & b.** will be followed, with the exception that in **During Construction; 3. a.**, the PI will contact MMC by 8AM the following morning to report and discuss the findings.

b. If night work becomes necessary during the course of construction

- (1) The Construction Manager shall notify the RE, or BI, as appropriate, a minimum of 24 hours before the work is to begin.
- (2) The RE, or BI, as appropriate, will notify MMC immediately.

c. All other procedures described above will apply, as appropriate.

6. Notification of Completion

The Archaeologist shall notify MMC and the RE or the BI, as appropriate, in writing of the end date of monitoring.

Post Construction

1. Handling and Curation of Artifacts and Letter of Acceptance
 - a. The Archaeologist shall be responsible for ensuring that all cultural remains collected are cleaned, catalogued, and permanently curated with an appropriate institution; that a letter of acceptance from the curation institution has been submitted to MMC; that all artifacts are analyzed to identify function and chronology as they relate to the history of the area; that faunal material is identified as to species; and that specialty studies are completed, as appropriate.
 - b. Curation of artifacts associated with the survey, testing and/or data recovery for this project shall be completed in consultation with LDR and the Native American representative, as applicable.
2. Final Results Reports (Monitoring and Research Design and Data Recovery Program)
 - a. Within three months following the completion of monitoring, two copies of the Final Results Report (even if negative) and/or evaluation report, if applicable, which describes the results, analysis, and conclusions of the Archaeological Monitoring Program (with appropriate graphics) shall be submitted to MMC for approval by the ERM of LDR.
 - b. For significant archaeological resources encountered during monitoring, the Research Design and Data Recovery Program shall be included as part of the Final Results Report.
 - c. MMC shall notify the RE or BI, as appropriate, of receipt of the Final Results Report.
3. Recording Sites with State of California Department of Park and Recreation

The Archaeologist shall be responsible for recording (on the appropriate State of California Department of Park and Recreation forms-DPR 523 A/B) any significant or potentially significant resources encountered during the Archaeological Monitoring Program in accordance with the City's *Historical Resources Guidelines*, and submittal of such forms to the South Coastal Information Center with the Final Results Report.

C. Historical Resources (Paleontology)

Prior to preconstruction (precon) meeting

1. Land Development Review (LDR) Plan Check

Prior to the Precon Meeting, the Environmental Review Manager (ERM) of LDR shall verify that the requirements for Paleontological Monitoring have been noted on the appropriate construction documents.

2. Letters of Qualification have been Submitted to ERM

Prior to the Precon Meeting, the applicant shall provide a letter of verification to the ERM of LDR stating that a qualified Paleontologist, as defined in the City of San Diego *Paleontological Guidelines*, has been retained to implement the monitoring program.

3. Second Letter Containing Names of Monitors has been sent to Mitigation Monitoring Coordination (MMC)

a. At least thirty days prior to the Precon Meeting, a second letter shall be submitted to MMC which shall include the name of the Principal Investigator (PI) and the names of all persons involved in the Paleontological Monitoring of the project.

b. MMC will provide Plan Check with a copy of both the first and second letter.

4. Records Search Prior to Precon Meeting

At least thirty days prior to the Precon meeting, the qualified Paleontologist shall verify that a records search has been completed, and updated as necessary, and be prepared to introduce any pertinent information concerning expectations and probabilities of discovery during trenching and/or grading activities. Verification includes, but is not limited to, a copy of a confirmation letter from the San Diego Natural History Museum, other institution, or, if the record search was in-house, a letter of verification from the PI stating that the search was completed.

Precon Meeting

1. Monitor Shall Attend Precon Meetings

a. Prior to beginning of any work that requires monitoring, the Applicant shall arrange a Precon Meeting that shall include the Paleontologist, Construction Manager and/or Grading Contractor, Resident Engineer (RE), Building inspector (BI), and MMC. The qualified Paleontologist shall attend any grading related Precon Meetings to make comments and/or suggestions concerning the Paleontological Monitoring Program with the Construction Manager and/or Grading Contractor.

- b. If the Monitor is not able to attend the Precon Meeting, the RE, or BI as appropriate, will schedule a focused Precon Meeting for MMC, Monitors, Construction Manager and appropriate Contractor's representatives to meet and review the job on-site prior to start of any work that requires monitoring.
2. Identify Areas to be Monitored

At the Precon Meeting, the Paleontologist shall submit to MMC a copy of the site/grading plan (reduced to 11x17) that identifies areas to be monitored.
3. When Monitoring Will Occur

Prior to the start of work, the Paleontologist also shall submit a construction schedule to MMC through the RE, or BI, as appropriate, indicating when and where monitoring is to begin and shall notify MMC of the start-date for monitoring.

During Construction

1. Monitor Shall be Present During Grading/Excavation
 - a. The qualified Paleontologist shall be present full-time during the initial cutting of previously undisturbed formations with high and moderate resource sensitivity, and shall document activity via the Consultant Site Visit Record (form). This record shall be faxed to the RE, or BI as appropriate, and MMC each month.
 - b. The qualified Paleontologist shall be present full-time during the initial cutting of previously undisturbed formations with high and moderate resource sensitivity at depths of 10 feet or more measures from existing grade, and shall document activity via the Consultant Site Visit Record (form). This form shall be sent to the RE, or BI as appropriate, each month. The RE, or BI as appropriate, will forward copies to MMC.
2. Monitoring of Trenches Will Include Mainline, Laterals, and all Appurtenances

Monitoring is required for the mainline, laterals, services and all other appurtenances that impact formations with high and moderate resource at depths of 10 feet or greater as detailed on the plans or in the contract documents, identified by drawing number or plan file number. *It is the contractors responsibility to keep the monitors up-to-date with current plans.*

3. Discoveries

a. Minor Paleontological Discovery

In the event of a minor Paleontological discovery (small pieces of broken common shell fragments or other scattered common fossils) the Paleontologist shall notify the RE, or BI as appropriate, that a minor discovery has been made. The determination of significance shall be at the discretion of the qualified Paleontologist. The Paleontologist will continue to monitor the area and immediately notify the RE, or BI as appropriate, if a potential significant discovery emerges.

b. Significant Paleontological Discovery

In the event of a significant Paleontological discovery, and when requested by the Paleontologist, the city RE, or BI as appropriate, shall be notified and shall divert, direct, or temporarily halt construction activities in the area of discovery to allow recovery of fossil remains. The determination of significance shall be at the discretion of the qualified Paleontologist. The Paleontologist with Principal Investigator (PI) level evaluation responsibilities shall also immediately notify MMC staff of such finding at the time of discovery. MMC staff will coordinate with appropriate LDR staff.

4. Night Work

a. If night work is included in the contract

- (1) When night work is included in the contract package, the extent and timing shall be presented and discussed at the precon meeting.
- (2) The following procedures shall be followed:

(a) No Discoveries

In the event that nothing was found during the night work, The PI will record the information on the Site Visit Record Form.

(b) Minor Discoveries

All Minor Discoveries will be processed and documented using the existing procedures under 3.a., with the exception that the RE will contact MMC by 9 a.m. the following morning.

(c) Potentially Significant Discoveries

If the PI determines that a potentially significant discovery has been made, the procedures under 3.b., will be followed, with the exception that the RE will contact MMC by 8 a.m. the following morning to report and discuss the findings.

- b. If night work becomes necessary during the course of construction
 - (1) The Construction Manager shall notify the RE, or BI, as appropriate, a minimum of 24 hours before the work is to begin.
 - (2) The RE, or BI, as appropriate, will notify MMC immediately.
- c. All other procedures described above will apply, as appropriate.

5. Notification of Completion

The Paleontologist shall notify MMC and the RE, or BI as appropriate, of the end date of monitoring.

Post Construction

The Paleontologist shall be responsible for preparation of fossils to a point of curation as defined by the City of San Diego *Paleontological Guidelines*.

1. Submit Letter of Acceptance from Local Qualified Curation Facility.

The Paleontologist shall be responsible for submittal of a letter of acceptance to ERM of LDR from a local qualified curation facility. A copy of this letter shall be forwarded to MMC.

2. If Fossil Collection is not Accepted, Contact LDR for Alternatives

If the fossil collection is not accepted by a local qualified facility for reasons other than inadequate preparation of specimens, the project Paleontologist shall contact LDR to suggest an alternative disposition of the collection. MMC shall be notified in writing of the situation and resolution.

3. Recording Sites with San Diego Natural History Museum

The Paleontologist shall be responsible for the recordation of any discovered fossil sites at the San Diego Natural History Museum.

4. Final Results Report

a. Within three months following the completion of grading/trenching, two copies of the Final Results Report (even if negative), which describes the results, analysis, and conclusions of the above Paleontological Monitoring Program (with appropriate graphics) shall be submitted to MMC for approval by the ERM of LDR and one additional copy shall be sent to the RE or BI, as appropriate.

b. MMC shall notify the RE or BI, as appropriate, of receipt of the Final Results Report.

D. Water Quality

Because of the proximity to Famosa Slough, mitigation measures are required to reduce pollutants from surface runoff potentially generated during excavation associated with the project to a level below significance. Project design and execution shall comply with the provisions of the City of San Diego Storm Water Standards Manual. The following Best Management Practices (BMPs) are required during construction activities:

1. Storm drain inlet protection consisting of gravel bags and filter fabric such as polyethylene or polypropylene is to be placed around curb inlets.
2. Catch basin inlet protection is specified in paved areas by using filter fabric over catch basin grates.
3. Stabilized construction entrance/exit areas are to be provided to minimize transport of sediment off-site.
4. Silt fencing and fiber rolls are required to be in place to minimize surface transport of sediments.
5. The construction contractor is to prepare and carry out a Sewer Spill Prevention and Response Plan.

VI. PUBLIC REVIEW DISTRIBUTION:

Draft copies or notice of this Mitigated Negative Declaration were distributed to:

City of San Diego

Council District 2
Development Services Department
Library (81)
Transportation Development (78)
Engineering and Capital Projects, David Manela (86)
San Diego Transit (112)

State of California

Regional Water Quality Control Board (44)
Southern California Drinking Water Field Operations Branch,
1350 Front Street, Room 2050, San Diego, CA 92101

Other

Friends of Famosa Slough
San Diego County Archaeological Society (218)
Peninsula Community Planning Board (390)
Peninsula Community Service Center (389)
South Coastal Information Center (210)
San Diego Historical Society (211)
San Diego Archaeological Center (212)
Dr. Florence Shipek (208)
Ron Christman (215)

- Louie Guassac (215A)
- Kumeyaay Cultural Repatriation Committee (225)
- Barona Group of Capitan Grande Band of Mission Indians* (225A)
- Campo Band of Mission Indians* (225B)
- Cuyapaipe Band of Mission Indians* (225C)
- Inaja and Cosmit Band of Mission Indians* (225D)
- Jamul Band of Mission Indians* (225E)
- La Posta Band of Mission Indians* (225F)
- Manzanita Band of Mission Indians* (225G)
- Sycuan Band of Mission Indians* (225H)
- Viejas Group of Capitan Grande Band of Mission Indians* (225I)
- Mesa Grande Band of Mission Indians* (225J)
- San Pasqual Band of Mission Indians* (225K)
- Santa Ysabel Band of Diegueño Indians* (225L)
- La Jolla Band of Mission Indians* (225M)
- Pala Band of Mission Indians* (225N)
- Pauma Band of Mission Indians* (225O)
- Pechanga Band of Mission Indians* (225P)
- Rincon Band of Luiseno Mission Indians* (225Q)
- Los Coyotes Band of Mission Indians* (225R)

*public notice only

VII. RESULTS OF PUBLIC REVIEW:

- () No comments were received during the public input period.
- (X) Comments were received but did not address the draft Mitigated Negative Declaration finding or the accuracy/completeness of the Initial Study. No response is necessary. The letters are attached.
- () Comments addressing the findings of the draft Mitigated Negative Declaration and/or accuracy or completeness of the Initial Study were received during the public input period. The letters and responses follow.

Copies of the draft Mitigated Negative Declaration and any Initial Study material are available in the office of the Land Development Review Division for review, or for purchase at the cost of reproduction.


 KENNETH TEASLEY, Senior Planner
 Development Services Department

February 21, 2003
Date of Draft Report

March 17, 2003
Date of Final Report

Analyst: WILKINSON

APPENDIX B

Fire Hydrant Meter Program

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

1. **PURPOSE**

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

2. **AUTHORITY**

- 2.1 All authorities and references shall be current versions and revisions.
- 2.2 San Diego Municipal Code (NC) Chapter VI, Article 7, Sections 67.14 and 67.15
- 2.3 Code of Federal Regulations, Safe Drinking Water Act of 1986
- 2.4 California Code of Regulations, Titles 17 and 22
- 2.5 California State Penal Code, Section 498B.0
- 2.6 State of California Water Code, Section 110, 500-6, and 520-23
- 2.7 Water Department Director

Reference

- 2.8 State of California Guidance Manual for Cross Connection Programs
- 2.9 American Water Works Association Manual M-14, Recommended Practice for Backflow Prevention
- 2.10 American Water Works Association Standards for Water Meters
- 2.11 U.S.C. Foundation for Cross Connection Control and Hydraulic Research Manual

3. **DEFINITIONS**

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

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- 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

Department: METER SHOP 619 527 7449
2797 Caminito Chollas • San Diego, California 92105-5097 • FAX 619 527 3125

NS Req:	Fac #:
Date:	By:

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

Fire Hydrant Location: (Attach detailed map, Thomas Bros. map location or construction drawing.)

Specific Use of Water:

Any return to Sewer or Storm Drain, if so, explain:

Estimated Duration of Meter Use: Check Box if Reclaimed Water

Company Information

Company Name:

Mailing Address:

City: State: Zip Code: Phone: ()

*Business License #: *Contractor License #:

**A copy of the Contractor's License and/or Business License is required at the time of meter issuance.*

Name and Title of Agent: Phone: ()

Site Contact Name and Title: Phone: ()

Pager #: Cell: ()

Responsible Party Name: Title:

Social Security or Cal ID #: Phone: ()

Signature: Date:

Guarantees payment of all charges resulting from the use of this meter. Insures that employees of this organization understand the proper use of Fire Hydrant Meter.

Fire Hydrant Meter Removal Request

Check Box to Request Removal of Above Meter Requested Removal Date:

Provide current Meter location if different from above:

Signature: Title: Date:

Phone: () Pager: ()

For Office Use Only

<input type="checkbox"/> City Meter	<input type="checkbox"/> Private Meter		
CIS Account #:	Deposit Amount: \$	Fees Amount: \$	
Meter Serial #:	Meter Size:	Meter Make & Style:	
Backflow #:	Backflow Size:	Meter Make & Style:	
Name:	Signature:	Date:	

\$1,108.45 - FOR 24 HR INSTALLATION
 \$1,052.26 - FOR 48 HR INSTALLATION

FHM App Created: 11/2/00-htp

"Exhibit B"

CONSTRUCTION AND MAINTENANCE RELATED ACTIVITIES WITH NO 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 Seeding
Irrigation (for establishing irrigation only; not continuing irrigation)
Mixing Concrete
Mobile Car Washing
Special Events
Street Sweeping
Water Tanks
Water Trucks
Window Washing**

Note: If there is any return to sewer or storm drain, then sewer and/or storm drain fees will be charged.

"Exhibit C"

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 refer to the Water Departments', Department Instruction (D.I.) 55.27 for further information and procedure.

Mail your request for an extension to :

City of San Diego, Water Department
Attn: Meter Services
2797 Caminito Chollas
San Diego, Ca. 92105-5097

Should you have any questions regarding this matter, please call the Fire Hydrant "Hot Line" at: (xxx) xxx-xxx.

Sincerely,

City of San Diego Water Department



Fire Hydrant Meter Relocate/Removal Request

(EXHIBIT D)

For Office Use Only

NS Req:	FHM Fac #:
Date:	By:

Date:

Instruction: Complete pertinent information then FAX both form and map to (xxx) xxx-xxxx, mail, or hand-deliver to the City of San Diego, Water Department/Meter Shop at: 2707 Caminito Chollas San Diego, CA 92105

Meter Information

Billing Account #:	Requested Move Date:
Current Fire Hydrant Meter Location:	
New Meter Location: <i>(Attach a detailed map, Thomas Bros map location or construction drawing.)</i>	

Company Information

Company Name:			
Mailing Address			
City:	State:	Zip Code:	Phone: ()
Name and Title of Requestor:			Phone: ()
Site Contact Name and Title			Phone: ()
Pager #:			Cell: ()
Responsible Party Name authorizing relocation fee:			
Signature:	Title:	Date:	

Fire Hydrant Meter Removal Request

<input type="checkbox"/> Check Box to Request Removal of Above Meter	Requested Removal Date:	
Provide current Meter location if different from above:		
Signature:	Title:	Date:
Phone: ()	Pager: ()	

For Office Use Only

CIS Account #:	Fees Amount: \$		
Meter Serial #:	Size:	Make/Style	
Backflow #:	Size:	Make/Style	
Name:	Signature:	Date:	

FHM Relocate_Removal Form

FHM App Created: 11/2/00-htp

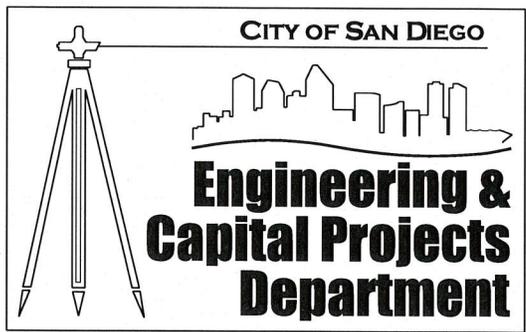
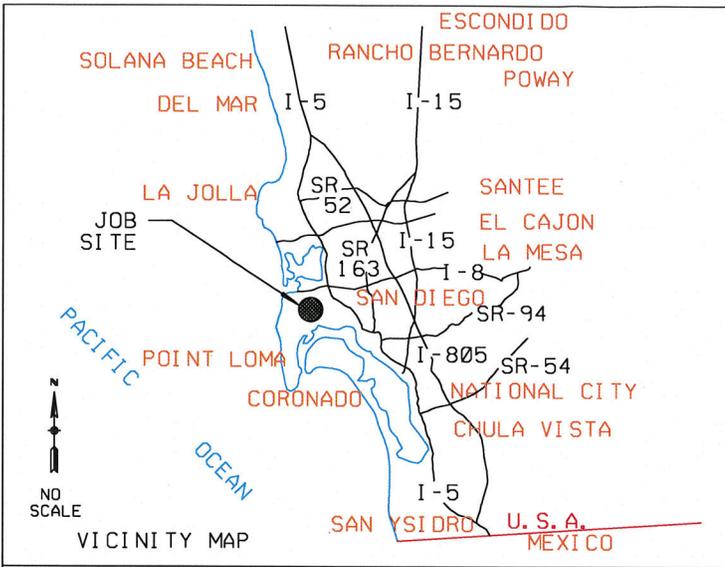
APPENDIX C

Sample City Invoice

City of San Diego, Field Engineering Div., 9485 Aero Drive, SD CA 92123						Contractor's Name:					
Project Name:						Contractor's Address:					
Work Order No or Job Order No.											
City Purchase Order No.						Contractor's Phone #:			Invoice No.		
Resident Engineer (RE):						Contractor's Fax #:			Invoice Date:		
RE Phone#:		RE Fax#:				Contact Name:			Billing Period:		
Item #	Item Description	Contract Authorization				Previous Estimate		This Estimate		Totals to Date	
		Unit	Qty	Price	Extension	%/QTY	Amount	% / QTY	Amount	% / QTY	Amount
1	2 Parallel 4" PVC C900	LF	1,380	\$34.00	\$46,920.00						
2	48" Primary Steel Casing	LF	500	\$1,000.00	\$500,000.00						
3	2 Parallel 12" Secondary Steel	LF	1,120	\$53.00	\$59,360.00						
4	Construction and Rehab of PS 49	LS	1	\$150,000.00	\$150,000.00						
5	Demo	LS	1	\$14,000.00	\$14,000.00						
6	Install 6' High Chain Link Fence	LS	1	\$5,600.00	\$5,600.00						
7	General Site Restoration	LS	1	\$3,700.00	\$3,700.00						
8	10" Gravity Sewer	LF	10	\$292.00	\$2,920.00						
9	4" Blow Off Valves	EA	2	\$9,800.00	\$19,600.00						
10	Bonds	LS	1	\$16,000.00	\$16,000.00						
11	Field Orders	AL	1	80,000	\$80,000.00						
11.1	Field Order 1	LS	5,500	\$1.00	\$5,500.00						
11.2	Field Order 2	LS	7,500	\$1.00	\$7,500.00						
11.3	Field Order 3	LS	10,000	\$1.00	\$10,000.00						
11.4	Field Order 4	LS	6,500	\$1.00	\$6,500.00						
12	Certified Payroll	LS	1	\$1,400.00	\$1,400.00						
CHANGE ORDERS											
Change Order 1			4,890								
Items 1-4					\$11,250.00						
Item 5-Deduct Bid Item 3		LF	120	-\$53.00	(\$6,360.00)						
Change Order 2			160,480								
Items 1-3					\$95,000.00						
Item 4 Deduct Bid Item 1		LF	380	-\$340.00	(\$12,920.00)						
Item 5-Encrease bid Item 9		LF	8	\$9,800.00	\$78,400.00						
Change Order 3 (Close Out)			-121,500								
Item 1 Deduct Bid Item 3			53	-500.00	(\$26,500.00)						
Item 2 Deduct Bid Item 4		LS	-1	45,000.00	(\$45,000.00)						
Items 3-9			1	-50,500.00	(\$50,500.00)						
SUMMARY								Total This	\$ -	Total Billed	\$0.00
A. Original Contract Amount						Retention and/or Escrow Payment Schedule					
B. Approved Change Order 1 Thru 3						Total Retention Required as of this billing					
C. Total Authorized Amount (A+B)						Previous Retention Withheld in PO or in Escrow					
D. Total Billed to Date						Add'l Amt to Withhold in PO/Transfer in Escrow:					
E. Less Total Retention (5% of D)						Amt to Release to Contractor from PO/Escrow:					
F. Less Total Previous Payments											
G. Payment Due Less Retention						Contractor Signature and Date:					
H. Remaining Authorized Amount											

APPENDIX D

Location Map

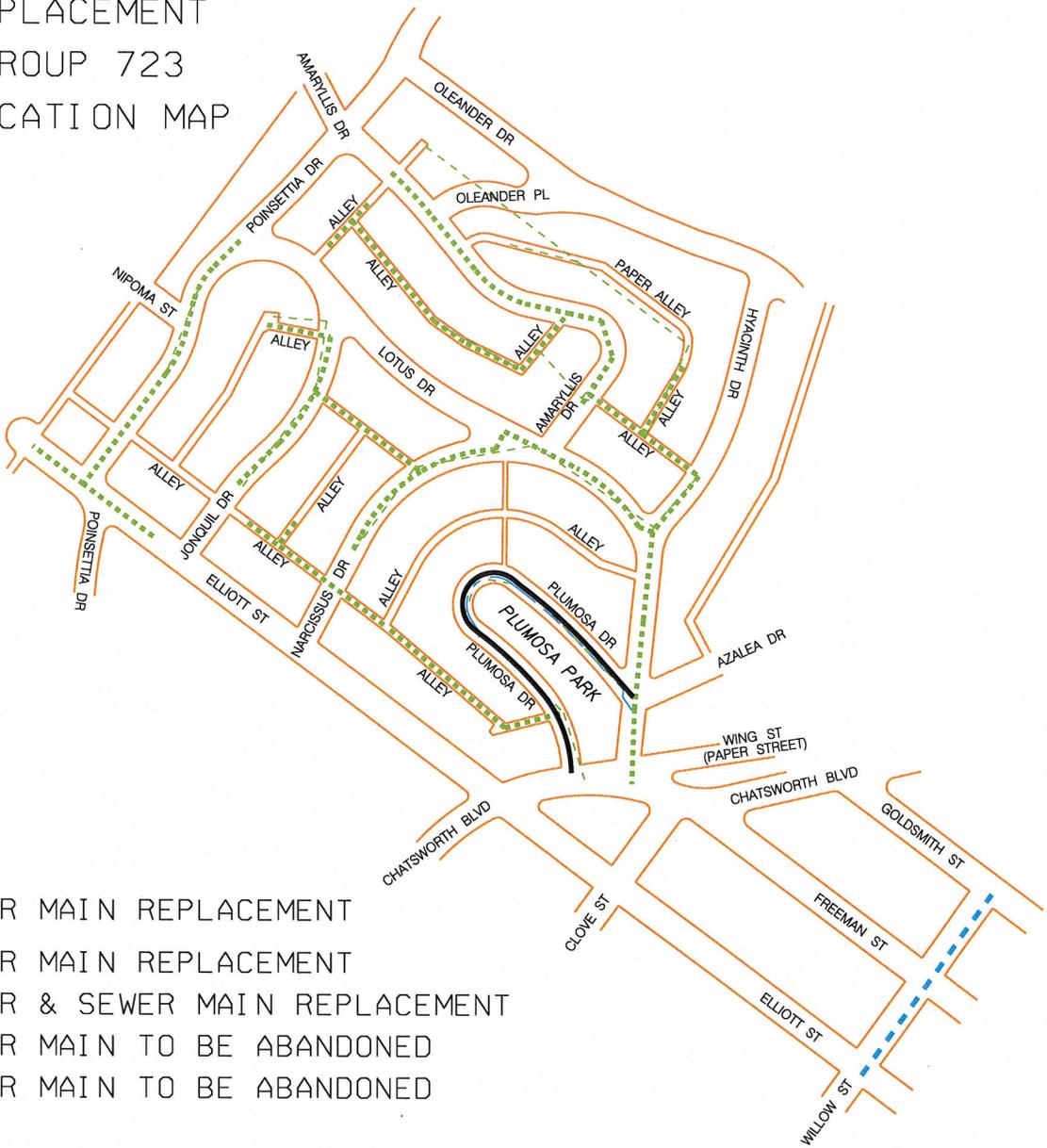


PROJECT ENGINEER
SHEILA GAMUEDA
© 533-5227

SENIOR ENGINEER
CARL E. SPIER, P.E.
© 533-5126

PROJECT MANAGER
BIJAN SHAKIBA
© 533-5191

WATER & SEWER MAIN
REPLACEMENT
GROUP 723
LOCATION MAP



- LEGEND:
- SEWER MAIN REPLACEMENT
 - WATER MAIN REPLACEMENT
 - WATER & SEWER MAIN REPLACEMENT
 - SEWER MAIN TO BE ABANDONED
 - WATER MAIN TO BE ABANDONED

01-24-11 CEK

APPENDIX E

Adjacent Projects

Adjacent Projects

Sewer & Water Group 723 and Sewer & Water Group 758

The screenshot shows the 'Coordination Action Tool' interface. At the top, it says 'The City of San Diego' and 'Interactive Mapping Coordination Action Tool'. The map displays several project areas: a green dashed line for SWG 723 and a purple dashed line for SWG 758. A red arrow points to the intersection of these two areas. Below the map is a table with the following data:

Selected-ID	Selected Contact	Conflicting-ID	Conflict Contact	Title	Resolved	Comments
B00462	Bijan Shakiba	B00050	Bijan Shakiba	Sewer & Water Group 723 (MH11) (04)	<input type="checkbox"/>	
B00462	Bijan Shakiba	B00365	Luis Schaar	Sewer & Water Group 758	<input type="checkbox"/>	
B00462	Bijan Shakiba	FY10-03	Ikhlass Shamoun	Resurfacing of Various Streets Citywide FY10-03	<input type="checkbox"/>	
B00462	Bijan Shakiba	FY11-S7	Kim LaSelle	Slurry Sealing of Various Streets Citywide FY11-S7	<input type="checkbox"/>	

Page 1 of 1

Point of connection between SWG 723 and SWG 758.

APPENDIX F

Hydrostatic Discharge Form

APPENDIX

Hydrostatic Discharge Requirements Certification (Discharge Events < 500,000 gpd)

All discharge activities related to this project comply with the Regional Water Quality Control Board (RWQCB) Order No. 2002-0020, General Permit for Discharges of Hydrostatic Test Water and Potable Water to Surface Water and Storm Drains as referenced by (http://www.swrcb.ca.gov/rwqcb9/board_decisions/adopted_orders/2002/2002_0020.shtml), and as follows:

Discharged water has been dechlorinated to below 0.1 (mg/l) level; and effluent has been maintained between 6 and 9 (PH) based on:							<i>is discharge within acceptable limits?</i>		<i>Comment</i>
Event #	Discharge Date & Amount (GAL)	Discharge Time	Meter Readings (at source)	Test Results (Chlorine / PH)	Name of Personnel Conducting Tests (print)	*signature of personnel	yes	no	
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						

**By signing, I certify that all of the statements and conditions for hydrostatic discharge events are correct.*

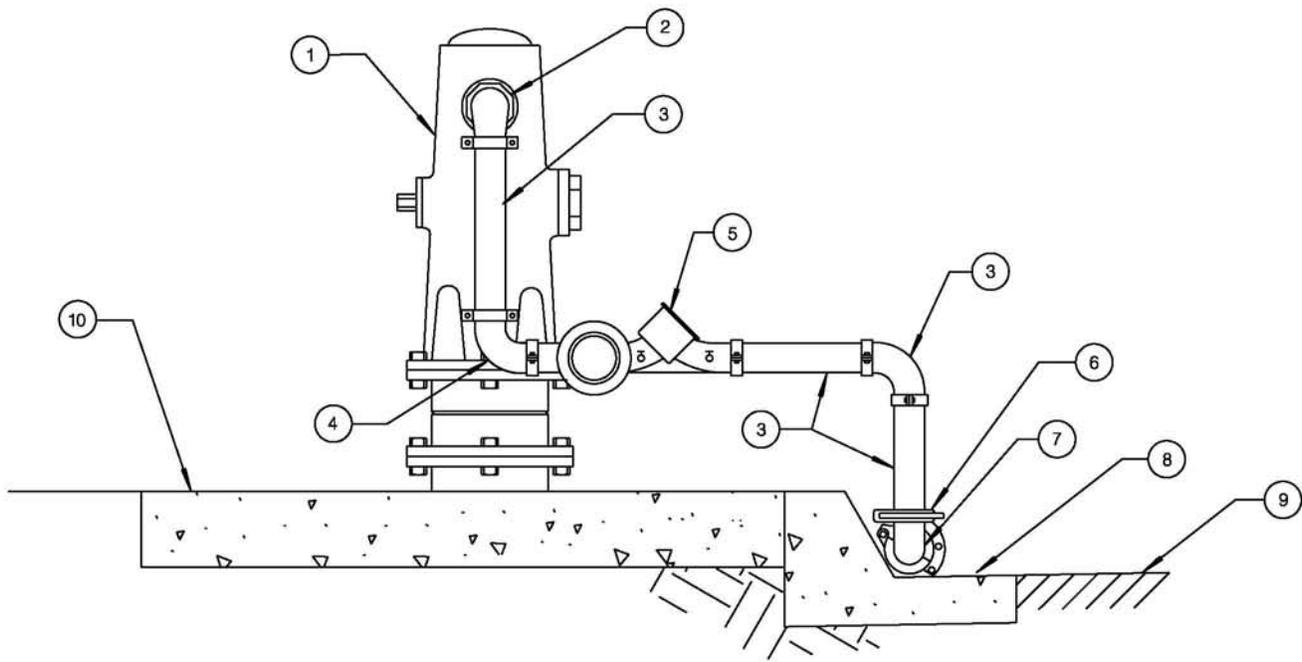
Project Name: _____

Work Order No.(s): _____

Have any thresholds have been exceeded? Per Order No. 2002-0020, would this be a reportable discharge and must be reported **within 24 hours** of the event? [Reportable discharge would include violation of maximum gallons per day, any upset which exceeds any effluent limit]

APPENDIX G

High-lining Standard Drawings



- ① EXISTING 2-PORT FIRE HYDRANT
- ② 2 1/2" PORT TO 2" ADAPTER ELBOW W/THREADED FITTING
- ③ 2" PIPE (GROOVED)
- ④ 2" 90° ELBOW W/THREADED JOINT FITTINGS
- ⑤ 2" BACKFLOW PREVENTER W/ THREADED JOINT FITTINGS
- ⑥ SNAP-JOINT COUPLING (2-GROOVE)
- ⑦ 2" TEE/90° ELBOW W/ SNAP-JOINT COUPLING(S) (2-GROOVE) W/DIRECTIONAL SHUT OFF VALVE(S) (NOT SHOWN)
- ⑧ EXISTING CURB & GUTTER
- ⑨ EXISTING ROADWAY
- ⑩ EXISTING CONCRETE PADSIDEWALK

REVISION	BY	APPROVED	DATE
ORIGINAL	KA	J. NAGELVOORT	01/12

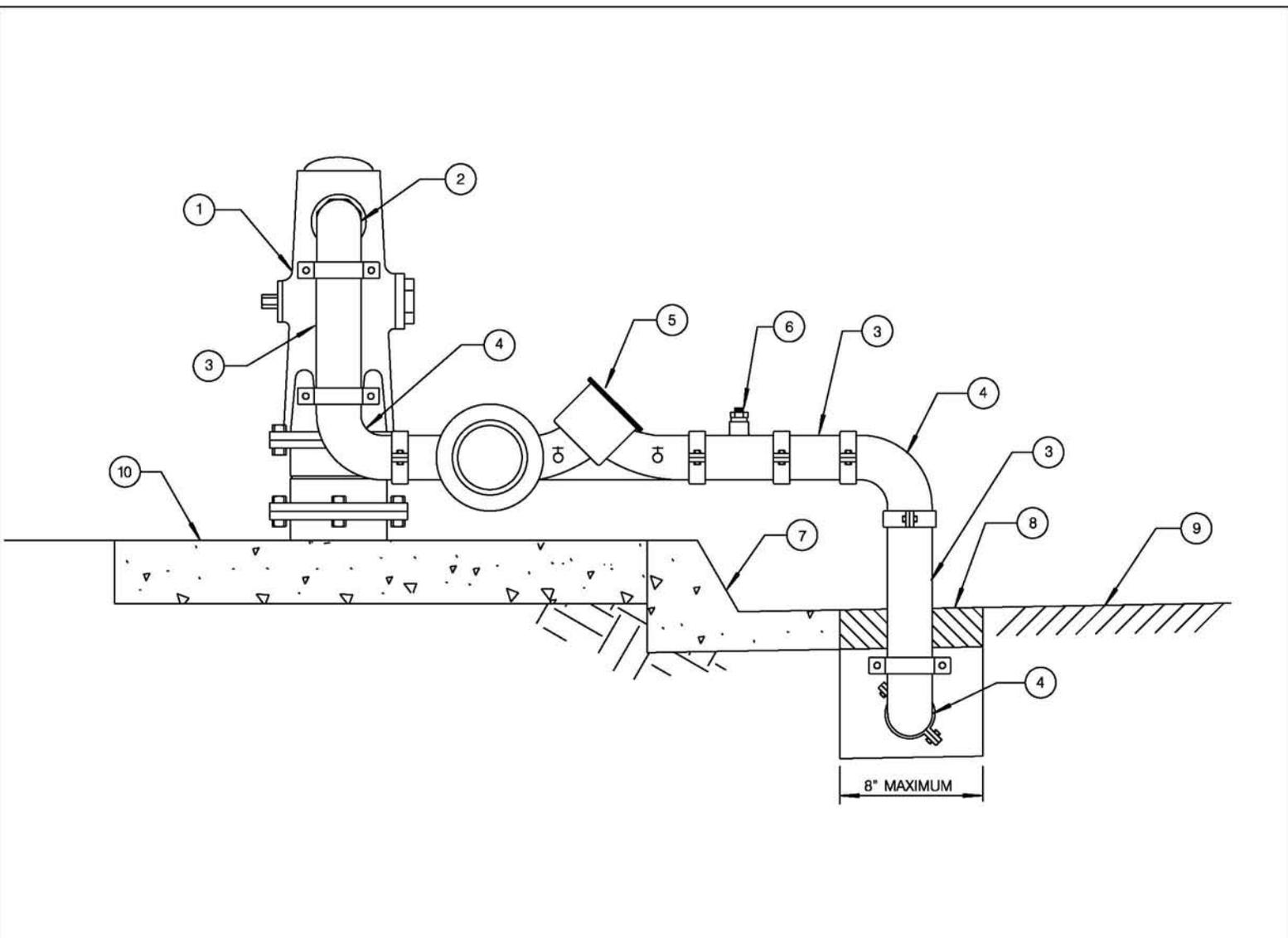
CITY OF SAN DIEGO - STANDARD DRAWING

2" FIRE HYDRANT HIGHLINING CONNECTION

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

R. Hadli 1/31/2012
COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER **SDW-170**



- ① EXISTING 3-PORT FIRE HYDRANT
 - ② PORT ADAPTER ELBOW W/THREADED JOINT FITTING
 - ③ PIPE (GROOVED)
 - ④ 90° ELBOW W/THREADED JOINT FITTINGS
 - ⑤ 4" BACKFLOW PREVENTER W/THREADED JOINT FITTINGS
- ⑥ 4" SHUTOFF VALVE W/THREADED JOINT FITTINGS
 - ⑦ EXISTING CURB & GUTTER
 - ⑧ SAW CUT ROADWAY, TRENCH, BACKFILL AND TEMPORARY ASPHALT SURFACE
 - ⑨ EXISTING ROADWAY
 - ⑩ EXISTING CONCRETE PADSIDEWALK

REVISION	BY	APPROVED	DATE
ORIGINAL	KA	J. NAGELVOORT	01/12

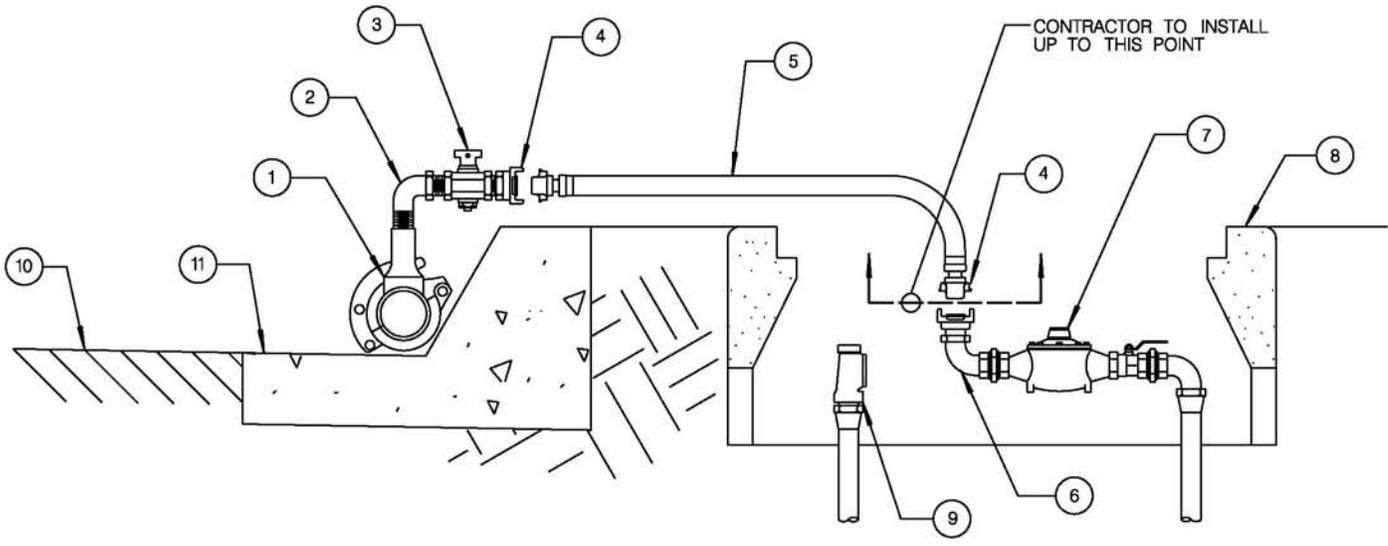
CITY OF SAN DIEGO – STANDARD DRAWING

4" FIRE HYDRANT HIGHLINING CONNECTION

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

H. Hadli 1/31/2012
COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER **SDW-171**



- ① GROOVED 2"x2"x1" TEE W/SNAP-JOINT COUPLING (2-GROOVE)
 - ② 1" 90° ELBOW W/THREADED JOINT FITTINGS
 - ③ 1" SHUTOFF VALVE W/THREADED JOINT FITTINGS
 - ④ 1" PIPE TO HOSE ADAPTER
 - ⑤ 1" CONNECTION HOSE
- ⑥ 1" 90° ELBOW TO METER THREADS (ADAPTERS MAY BE REQUIRED)
 - ⑦ EXISTING WATER METER
 - ⑧ EXISTING WATER METER BOX
 - ⑨ EXISTING SERVICE CONNECTION FROM WATER MAIN
 - ⑩ EXISTING ROADWAY
 - ⑪ EXISTING CURB & GUTTER

REVISION	BY	APPROVED	DATE
ORIGINAL	KA	J. NAGELVOORT	01/12

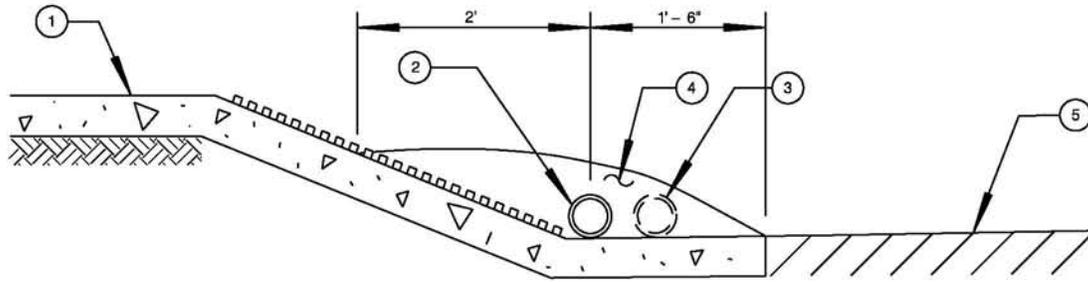
CITY OF SAN DIEGO - STANDARD DRAWING

**RESIDENTIAL USER
HIGHLINING CONNECTION**

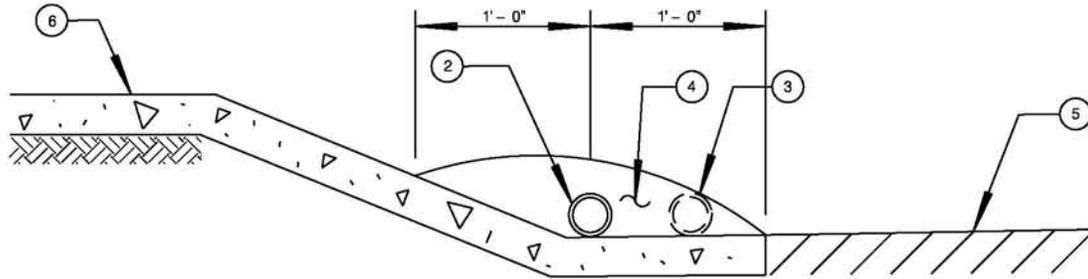
RECOMMENDED BY THE CITY OF SAN DIEGO
STANDARDS COMMITTEE

H. Hadli 1/31/2012
COORDINATOR R.C.E. 65271 DATE

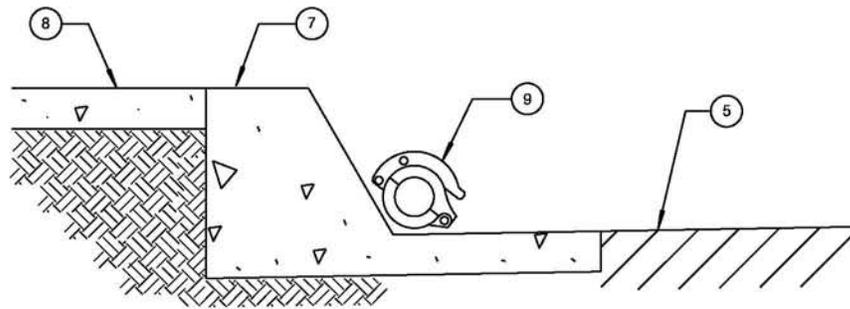
DRAWING NUMBER **SDW-172**



CURB RAMP HIGHLINING CROSSING



DRIVEWAY HIGHLINING CROSSING



CURB AND GUTTER HIGHLINING RUN

NOTES:

1. SLOPE OF TEMPORARY ASPHALT SHALL BE SMOOTH AND SLOPED TO HAVE A GRADUAL TRANSITION TO THE STREET AND SHALL NOT EXCEED 8.33%. CROSS SLOPE OF THE TEMPORARY ASPHALT SHALL MATCH EXISTING GUTTER SLOPE.
2. NO PIPE COUPLING SHALL BE PLACED WITHIN THE CURB RAMP OPENING.
3. MINIMUM ASPHALT COVER ON HIGHLINE PIPE SHALL BE 1".

- ① EXISTING CURB RAMP
- ② HIGHLINE PIPING
- ③ DRAIN PIPING
- ④ TEMPORARY ASPHALT (COLD MIX)

- ⑤ EXISTING ROADWAY
- ⑥ EXISTING DRIVEWAY
- ⑦ EXISTING CURB & GUTTER
- ⑧ EXISTING SIDEWALK
- ⑨ HIGHLINE PIPING AND SNAP COUPLING (2 GROOVE)

REVISION	BY	APPROVED	DATE
ORIGINAL	KA	J. NAGELVOORT	01/12

CITY OF SAN DIEGO - STANDARD DRAWING

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

H. Hadli 1/31/2012
COORDINATOR R.C.E. 65271 DATE

HIGHLINING CROSSING & RUN

DRAWING NUMBER **SDW-173**

APPENDIX H
Hazardous Labels/Forms

INCIDENT/RELEASE ASSESSMENT FORM ¹

If you have an emergency, Call 911

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

Questions for Incident Assessment:

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

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

Call 911 in an emergency

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

If in doubt, report the release.

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

NON REPORTABLE RELEASE INCIDENT FORM

1. RELEASE AND RESPONSE DESCRIPTION

Incident # _____

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

2. ADMINISTRATIVE INFORMATION

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

3. CHEMICAL INFORMATION

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

EMERGENCY RELEASE FOLLOW - UP NOTICE REPORTING FORM

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

SAMPLE HAZARDOUS WASTE LABEL

HAZARDOUS WASTE

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

GENERATOR NAME _____

ADDRESS _____ 24 HR. PHONE () _____

CITY _____ STATE _____ ZIP _____

EPA ID NO. _____ MANIFEST DOCUMENT NO. _____

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

CONTENTS, COMPOSITION _____

PROPER DOT SHIPPING NAME _____

TECHNICAL NAME (S) _____

UN/NA NO. WITH PREFIX _____

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

HANDLE WITH CARE!
CONTAINS HAZARDOUS OR TOXIC WASTES

APPENDIX I

Agreement for Application of Emulsion-Aggregate Slurry

**AGREEMENT FOR APPLICATION OF
EMULSION-AGGREGATE SLURRY**

This Agreement for Application of Emulsion-Aggregate Slurry Related to [**Sewer and Water Group 723**] [Agreement] is made and entered into by and between the City of San Diego [City] and [***Insert name of Contractor***] [Contractor] (collectively referred to herein as “the Parties”).

RECITALS

- A.** WHEREAS, on or about [***Insert date***], the City and the Contractor entered into an agreement for the construction of **Sewer and Water Group 723** [Contract], **SAP No. (WBS/IO/CC) B-00462/B-00050**.
- B.** WHEREAS, in accordance with the terms of the Contract, the City and the Contractor agreed that the slurry sealing work described in Section 302-4, “Emulsion-Aggregate Slurry and 302-4.7,” “Rubberized Emulsion Aggregate Slurry” would not be performed during the months of November, December, January, February, and March [Winter Months].
- C.** WHEREAS, work progressed in accordance with the Contract such that the slurry sealing work would, in the absence of the Parties’ agreement to the contrary, be performed during the Winter Months.
- D.** WHEREAS, the City and the Contractor desire to enter into this Agreement in order to fulfill their obligations under 302-4, “Emulsion-Aggregate Slurry” and 302-4.7, “Rubberized Emulsion Aggregate Slurry of the Contract.”

NOW, THEREFORE, in consideration of the mutual obligations of the Parties as set forth in the above Recitals, which are incorporated herein by this reference, the City and the Contractor agree as follows:

ARTICLE I - WORK TO BE PERFORMED

1.1 Performance of Work.

The Contractor agrees to perform all slurry sealing work as set forth in Sections 302-4 and 302-4.7 of the Contract and **sheet 32141-22-D of the Project’s Plans** [Slurry Work], which are incorporated by this reference as though fully set forth herein. The Slurry Work shall be performed in accordance with the Schedule of Work, attached hereto as “Exhibit A” and incorporated herein by this reference, or as otherwise agreed to by the Parties in a written change to the Schedule of Work. Unless otherwise specified, the time of completion of this Agreement shall be in Working Days.

For the purposes of this Agreement:

- a. References in the specified sections to the “Agency” shall mean the City and the “Work” shall mean the Slurry Work.
- b. References to the specified sections shall mean sections of the GREENBOOK (Standard Specifications for Public Works Construction), the City Supplements in The WHITEBOOK, and Supplementary Special Provisions (SSP) under the editions specified in the Contract.

1.2 Working Day.

See the City Supplements, Section 1-2, "TERMS AND DEFINITIONS." The Engineer will make a daily determination of each Working Day to be charged against the Agreement time. These determinations will be discussed and the Contractor will be furnished a periodic statement showing allowable number of Working Days of Agreement time, including any adjustments, at the beginning of the reporting period. The statement will also indicate the number of Working Days charged during the reporting period and the number of Working Days of Agreement time remaining. If the Contractor does not agree with the statement, it shall file a written protest within 15 days after receipt, setting forth the facts of the protest. Otherwise, the statement will be deemed to have been accepted.

1.3 Prosecution of Slurry Work.

Section 6-2, "Prosecution of Work" is incorporated into this Agreement by this reference as though fully set forth herein.

1.4 Project Site Maintenance.

Section 7-8, "Work Site Maintenance" is incorporated into this Agreement by this reference as though fully set forth herein.

1.5 Protection and Restoration of Existing Improvements.

Section 7-9, "Protection and Restoration of Existing Improvements" is incorporated into this Agreement by this reference as though fully set forth herein.

1.6 Public Convenience and Safety.

Section 7-10, "Public Convenience and Safety" is incorporated into this Agreement by this reference as though fully set forth herein.

1.7 Completion, Acceptance, and Guarantee.

The Engineer will inspect the Slurry Work in accordance with Section 302-4 and 302-4.7 of the Contract. The Contractor shall provide the Engineer with written notice that the Slurry Work has been completed. If the Engineer determines that the Slurry Work has been completed to the Engineer's reasonable satisfaction and is ready for acceptance, the Engineer will accept the completed Work by sending written notice to the Contractor specifying the date of acceptance. All Slurry Work shall be subject to the warranty requirements of the Contract as specified in Section 6-8, "COMPLETION, ACCEPTANCE, AND WARRANTY."

1.8 Payment to Contractor.

Upon completion of the Slurry Work, the City will pay the Contractor for slurry work, bonds, insurance, and traffic control in accordance with the applicable sections of the Contract.

1.9 Delays and Extensions of Time.

Section 6-6, "Delays and Extensions of Time" is incorporated into this Agreement by this reference as though fully set forth herein.

1.10 Liquidated Damages.

Section 6-9, "Liquidated Damages" is incorporated into this Agreement by this reference as though fully set forth herein.

ARTICLE II - BOND/INSURANCE/INDEMNIFICATION

2.1 Faithful Performance Bond.

Prior to execution of this Agreement, the Contractor shall provide the City with a faithful performance bond [Bond] in the amount of \$[*insert amount of Contractor's bid item for slurry work], guaranteeing faithful performance of all Slurry Work, within the time prescribed in this Agreement, in a manner satisfactory to City, and that all materials and workmanship will be free from original or developed defects. The Bond must remain in effect until the end of all warranty periods set forth in this Agreement. The Bond shall comply with Section 2-4, "BONDS" of the Contract.

2.2 Insurance.

Section 7-3, "Liability Insurance" is incorporated into this Agreement by this reference as though fully set forth herein. At all times during the term of this Agreement, the Contractor shall maintain insurance coverage required by Section 7-3, "LIABILITY INSURANCE" of the Contract for:

- a. Commercial General Liability.
- b. Commercial Automobile Liability.
- c. Worker's Compensation.

All policies must be primary and non-contributing to any insurance that may be carried by the City, as reflected in an endorsement, which shall be submitted to the City. The policies shall not be canceled, non-renewed, or materially changed except after 30 days prior written notice by the Contractor or the insurance carrier to the City by certified mail, except for non-payment of premium, in which case 10 days notice shall be provided.

2.3 Indemnification.

Section 7-15, Indemnification and Hold Harmless Agreement is incorporated into this Agreement by this reference as though fully set forth herein.

ARTICLE III - DEFAULT/TERMINATION

3.1 Termination of the Contract for Default.

Section 6-4, "Termination of the Contract for Default" is incorporated into this Agreement by this reference as though fully set forth herein.

3.2 Termination of the Contract for Convenience.

Section 6-5, "Termination of the Contract for Convenience" is incorporated into this Agreement by this reference as though fully set forth herein.

ARTICLE IV - CONTRACTOR OBLIGATIONS

4.1 Compliance with the City's Equal Opportunity Contracting Program.

The Contractor and each Subcontractors shall comply with the City's Equal Opportunity Contracting Program requirements which the Contractor acknowledges receiving in conjunction with the Contract.

4.2 Non-Discrimination Ordinance.

The Contractor shall not discriminate on the basis of race, gender, religion, national origin, ethnicity, sexual orientation, age, or disability in the solicitation, selection, hiring or treatment of subcontractors, vendors or suppliers. The Contractor shall provide equal opportunity for subcontractors to participate in subcontracting opportunities. The Contractor understands and agrees that violation of this Section shall be considered a material breach of this Agreement and may result in contract termination, debarment, or other sanctions. This language shall be in contracts between the Contractor and Subcontractors, and Suppliers.

4.3 Compliance Investigations.

Upon the City's request, the Contractor agrees to provide to the City, within 60 days, a truthful and complete list of the names of all Subcontractors and Suppliers that the Contractor has used in the past 5 years on any of its contracts that were undertaken within San Diego County, including the total dollar amount paid by the Contractor for each subcontract or supply contract. The Contractor further agrees to fully cooperate in any investigation conducted by the City pursuant to the City's Nondiscrimination in Contracting Ordinance (Municipal Code sections 22.3501-22.3517.) The Contractor understands and agrees that violation of this clause shall be considered a material breach of the contract and may result in remedies being ordered against the Contractor up to and including contract termination, debarment, and other sanctions for violation of the provisions of the Nondiscrimination in Contracting Ordinance. The Contractor further understands and agrees that the procedures, remedies and sanctions provided for in the Nondiscrimination Ordinance apply only to violations of the Nondiscrimination Ordinance.

4.4 Drug-Free Workplace.

The Contractor agrees to comply with the City's Drug-Free Workplace requirements set forth in Council Policy 100-17, adopted by Council Resolution No. R-277952 and incorporated into this Agreement by this reference. The Contractor has certified to the City that it will provide a drug-free workplace by submitting a Contractor Certification for a Drug-Free Workplace form.

The Contractor further certifies that any subcontract for this Agreement shall contain language that binds the Subcontractor to comply with the drug-free workplace requirements of this Agreement, as required by Sections 2.A.(1) through (3) of Council Policy 100-17. The Contractor and Subcontractors shall be individually responsible for their own drug-free work place program.

4.5 Compliance with Controlling Law.

The Contractor shall comply with all laws, ordinances, regulations, and policies of the federal, state, and local governments applicable to this Agreement, including the California Labor Code. In addition, the Contractor shall comply immediately with all directives issued by the City or its authorized representatives under authority of any laws, statutes, ordinances, rules, or regulations.

The laws of the State of California shall govern and control the terms and conditions of this Agreement.

ARTICLE V - GENERAL PROVISIONS

5.1 Jurisdiction, Venue, and Attorney's Fees.

The venue for any suit or proceeding concerning this Agreement, the interpretation or application of any of its terms, or any related disputes shall be in the County of San Diego, State of California. The prevailing party in any such suit or proceeding shall be entitled to a reasonable award of attorney's fees in addition to any other award made in such suit or proceeding.

5.2 Successors in Interest.

This Agreement and all rights and obligations created by this Agreement shall be in force and effect whether or not any parties to the Agreement have been succeeded by another entity, and all rights and obligations created by this Agreement shall be vested and binding on any party's successor in interest.

5.3 Integration.

This Agreement and the exhibits and references incorporated into this Agreement fully express all understandings of the Parties concerning the matters covered in this Agreement. No change, alteration, or modification of the terms or conditions of this Agreement, and no verbal understanding of the Parties, their officers, agents, or employees shall be valid unless made in the form of a written change or an amendment to this Agreement agreed to by Parties. All prior negotiations and agreements are merged into this Agreement.

5.4 No Waiver.

No failure of either the City or the Contractor to insist upon the strict performance by the other of any covenant, term or condition of this Agreement, nor any failure to exercise any right or remedy consequent upon a breach of any covenant, term, or condition of this Agreement, shall constitute a waiver of any such breach or of such covenant, term or condition. No waiver of any breach shall affect or alter this Agreement, and each and every covenant, condition, and term hereof shall continue in full force and effect to any existing or subsequent breach.

5.5 Severability.

The unenforceability, invalidity, or illegality of any provision of this Agreement shall not render any other provision of this Agreement unenforceable, invalid, or illegal.

5.6 Drafting Ambiguities.

The Parties agree that they are aware that they have the right to be advised by counsel with respect to the negotiations, terms and conditions of this Agreement, and the decision of whether or not to seek advice of counsel with respect to this Agreement is a decision, which is the sole responsibility of each Party. This Agreement shall not be construed in favor of or against either Party by reason of the extent to which each Party participated in the drafting of the Agreement.

5.7 City Acts/Approvals.

Whenever an act or approval is required by the City in accordance with the terms of this Agreement, the Public Works Department Director or duly designated representative shall perform act or approval.

5.8 Signing Authority.

The representative for each Party signing on behalf of a corporation, partnership, joint venture or governmental entity hereby declares that authority has been obtained to sign on behalf of the corporation, partnership, joint venture, or entity and agrees to hold the other Party or Parties hereto harmless if it is later determined that such authority does not exist..

IN WITNESS WHEREOF, this Agreement is executed by the City of San Diego, by and through its Public Works Department Director in accordance with Resolution No. **[*Insert resolution number authorizing underlying construction contract*]**, and by Contractor.

THE CITY OF SAN DIEGO

APPROVED AS TO FORM AND LEGALITY

Jan I. Goldsmith, City Attorney

By _____

By _____

Print Name: _____
Mayor or designee

Print Name: _____
Deputy City Attorney

Date: _____

Date: _____

CONTRACTOR

By _____

Print Name: _____

Title: _____

Date: _____

EXHIBIT A
SCHEDULE OF WORK

[*Insert Schedule Showing Time (in Working Days) in Which Work is to be Performed*]

APPENDIX J

Sample Archaeology Invoice

(FOR ARCHAEOLOGY ONLY)
Company Name

Address, telephone, fax

Date: Insert Date

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

Project Name: Insert Project Name

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

Drawing Number: Insert Drawing Number

Invoice period: Insert Date to Insert Date

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

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

Summary of charges:

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

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

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

Summary of charges:

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

Total this invoice: \$ _____

Total invoiced to date: \$ _____

Note 1:

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

Note 2:

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

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

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

APPENDIX K

Sample Replumb Agreement

AGREEMENT BETWEEN THE CITY AND THE PRIVATE PROPERTY OWNER TO CONSTRUCT A PRIVATE SEWER LATERAL

The City of San Diego is constructing a new sewer main in the public right-of-way to replace the main that currently serves your property in order to secure the health and safety of the citizenry. The name of the construction project improving the sewer serving your property is *Sewer & Water Group 723*, WBS Element *B-00462.02.01.04*. As a result of the new sewer main construction, the City anticipates that on or about *August 22, 2011*, the existing sewer main servicing *3603 Amaryllis Drive, San Diego, CA 92106* will be abandoned and service will be terminated. In order to connect to the new sewer main, a new private sewer lateral must be constructed to service the Property.

In order to expedite construction of the new sewer main, the City will provide to the owner(s) of the Property [Property Owner(s)] construction of a new private sewer lateral at no cost in accordance with the terms and conditions of this Agreement. If the Property Owner(s) reject(s) the City's offer to construct a Lateral, the Property Owner(s) must personally secure the construction of a Lateral, and connection to the new sewer main, or provide equally effective means of waste disposal, at Property Owner's(s') own expense. Further, Property Owner(s) who fail to construct a Lateral or who do so incorrectly, and all other Property Owner(s) who reject the City's offer, are solely and fully responsible for any and all liability, claims, losses, damages, or injuries to any person or property relating to flooding from the sewer main, private sewer lateral, or any other related facility.

To take advantage of the City's offer of construction at no expense to the Property Owner(s), the Property Owner(s) must return to the City an original copy of this Agreement, with notarized signatures from all Parties who have an ownership interest in the Property to *Right of Way Design Division, Attn: Project Engineer Sheila Gameuda, 600 B Street, Suite 800, San Diego, CA 92101-4502* within thirty (30) days of its receipt. Failure to submit the signed Agreement within that time period constitutes a rejection of this Agreement, triggering all liability described above. The City may, in its sole discretion, accept the completed Agreement after the thirty days have elapsed. If the Property Owner(s) accept(s) the City's offer and the completed Agreement is accepted by the City, then the parties agree as follows:

- 1. Right to Enter.** Property Owner(s) authorize(s) the City, its officers, agents, employees, and independent contractors to enter upon the Property (APN# *449-712-06-00*) for the purpose of constructing a Private Sewer Lateral. This Right of Entry is limited in time and shall automatically expire three hundred and sixty-five (365) days from the date the Notice of Completion is filed under the applicable construction contract.
- 2. City to Hire Contractor.** The City will hire a licensed contractor to construct a Lateral, provided that money is first authorized by the City Council or Mayor as required by law. The Contractor will design the Lateral and obtain a building permit, if required, for this work.

3. **Construction of Lateral.** Construction of the Lateral includes any and all equipment, facilities, and/or appurtenances necessary to secure adequate sewer service from the Property to the new sewer main. The construction and equipment will include a Lateral, cleanouts, connection to the new main, and abandonment of the old private sewer lateral. The location and limits of this work will be substantially as shown on Exhibit A (drawing), incorporated herein by this reference, or as otherwise agreed to in writing by the parties.

4. **Contractor Obligations.** The Contractor will protect, shore, brace, support, and maintain all underground pipes, conduits, drains, and other underground construction uncovered or otherwise affected by the construction of the Lateral. The Contractor will restore those portions of existing improvements that are affected by construction operations to their original or practical equivalent condition, as determined by the City, including pavement, decorative pavers, driveways, curbs, walks, tile, minor structures, retaining walls, utility poles, guy wires, fences, lawns, shrubs, and trees. Mature landscaping will be replanted with a practical and commercially available replacement and the Property Owner(s) shall be responsible for, in perpetuity, all maintenance and watering necessary to insure growth from the date planted.

5. **Damage or Injury During Construction.** Property Owner(s) shall not be responsible for any damage to equipment or injury to the City's officers, agents, employees, or independent contractors incurred in performance of construction of the Lateral, except as caused by Property Owner's(s') negligence or willful misconduct.

6. **Notification of Commencement.** The Contractor will be responsible for notifying the occupants of the Property at least ten (10) working days before starting construction.

7. **City Inspection of Work.** Property Owner(s) shall allow City representatives to have reasonable access to the Property to verify that Contractor's work was performed in accordance with applicable State and local plumbing, building, and health regulations. The City will perform a final inspection of the Lateral to confirm construction and for the purpose of determining whether the Lateral complies with or violates any enactment or contains or constitutes a hazard to health and safety. The Property Owner(s) agree(s) that the City's approval is general approval only and that the Contractor is solely responsible for complying with all applicable laws, codes, and good construction practices.

8. **Work Site Access and Condition.** The Contractor will maintain pedestrian and vehicular access to the Property after working hours and as much as practical during working hours (7 a.m. to 3:30 p.m.). [If there are any changes to the working hours, the Contractor will notify the Property Owner(s) or occupants of the Property at least 48 hours in advance.] The Contractor will be required to keep the work site clean and free from rubbish and debris through all phases of construction. Upon completion of the work, the Contractor will remove all equipment, materials, and debris from the work site.

9. **Warranty and Maintenance Obligations.** After the City's final inspection, construction of the Lateral is considered complete. Upon completion, the Contractor will warrant the Contractor's work, guaranteeing for a period of one (1) year that the work is free from defects in workmanship or materials. The Contractor shall be responsible for any and all necessary work covered by the warranty during the warranty period. Any warranties available on pipe or other materials shall be

provided by the Contractor and/or any manufacturer to the Property Owner(s). Upon completion, the Property Owner(s) shall bear full responsibility for any and all maintenance of the Lateral. In addition, the Property Owner(s) shall bear full responsibility for any and all repairs of the Lateral, and any and all equipment, facilities, and/or appurtenances including, but not limited to, anything not covered by any available warranties and anything not covered after expiration of any available warranties.

10. Liability After Completion. Upon completion, the Property Owner(s) shall release and agree to hold the City harmless from any and all liability for any damages caused or claimed to be caused by the design, construction, maintenance, repair, or presence of the Lateral, and from any liability or claims by any person arising from any conditions discovered at the Property or arising as a result of work performed at the Property by the Contractor related to the subject matter of this Agreement. Under no circumstances shall the City be liable for any losses or damages, however caused, relating to the Lateral.

11. Section Headings. All captions and section headings are for convenience only and shall not affect the interpretation of this Agreement.

12. Counterparts. This Agreement may be executed in several counterparts. All counterparts collectively constitute one Agreement that is binding on all of the parties to this Agreement even though each of the signatory parties may have executed separate counterparts.

13. Authority to Execute. The parties signing this Agreement represent and warrant that they are legally authorized and competent to execute this Agreement.

14. Entire Understanding. This Agreement constitutes the entire agreement between the parties, and supersedes any and all prior understandings, representations, warranties, and agreements on this issue.

15. Covenant Running with the Land. The Agreement is a covenant running with the Property and shall be binding upon the Property Owner(s) and any Successor(s), and the interests of any Successor(s). The interests of any Successor(s) shall be subject to each and every condition set out in this Agreement and all referenced documents. Property Owner(s) agree to provide a copy of this Agreement to any prospective purchasers of the Property.

16. Notarization and Recording. This Agreement shall be executed in recordable form by the Property Owner(s) before a Notary Public. After this document has been fully executed by all of the parties, it shall be recorded by the City as an agreement affecting real property, in the Office of the Recorder of the County of San Diego, State of California.

IN WITNESS WHEREOF, this Agreement is executed by the City of San Diego, acting by and through its Mayor or designee, pursuant to the Mayor's delegation in accordance with San Diego City Charter section 265 authorizing such execution, and by the Property Owner(s).

PROPERTY OWNER(S)

THE CITY OF SAN DIEGO

By: _____

By: _____

- Individual
 - Trustee
 - Other/Specify: _____
- (Please Check **Only** One Box)

Downs Prior
Principal Contract Specialist
Purchasing & Contracting Department

Dated: _____

Dated: _____

Print Name/Title (if applicable)

By: _____

- Individual
 - Trustee
 - Other/Specify: _____
- (Please Check **Only** One Box)

Dated: _____

Print Name/Title (if applicable)

Print Name of Trust, Corporation, or other Entity
Holding Property (if
applicable): _____

Property Owner(s) Telephone
Number: _____

I HEREBY APPROVE the form and legality of the foregoing Agreement this _____ day
of _____, 20_____.

JAN I. GOLDSMITH, City Attorney

By: _____

Deputy City Attorney

ACKNOWLEDGEMENT

State of California
County of _____

On _____ before me, _____
(insert name and title of officer)

personally appeared _____,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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

WITNESS my hand and official seal.

Signature _____ (Seal)

PROPERTY INSTRUCTION SHEET

Please refer to the checked box below and follow the instructions:

Our records indicate that your property is owned by the following individuals:

Please be sure that all parties with an ownership interest in the property have signed the agreement and have taken the enclosed "All Purpose Acknowledgment Form" to a notary.

Wussow, Deborah A.

Our records indicate that your property is owned by the following trust:

Please be sure that all surviving trustees have signed the agreement, filled out the enclosed "Certification of trust," and have taken both documents along with two "All Purpose Acknowledgment Forms" to a notary.

Our records indicate that your property is owned by the following Limited Liability Company:

Please provide the City with a copy of those provisions from the operating agreement which identify the members who are authorized to enter into agreements on behalf of the L.L.C. The member who has signed the agreement should take a copy of the agreement and the enclosed "All Purpose Acknowledgment Form" to a notary.

Our records indicate that your property is owned by the following Limited Liability Partnership or General Partnership:

Please provide the City with a copy of those provisions from the partnership agreement which identify the partner(s) who is/are authorized to enter into agreements on behalf of the partnership. The partner(s) who has/have signed the agreement should take a copy of the agreement and enclosed "All Purpose Acknowledgment Form" to a notary.

Our records indicate that your property is owned in the name of the following Corporation:

Please provide the City with a copy of those provisions from the articles of incorporation or certificate of secretary which identify the corporate officers who are authorized to enter into agreements on behalf of the corporation. The corporate officer who has signed the agreement should take a copy of the agreement and enclosed "All Purpose Acknowledgment Form" to a notary.

Our records indicate that your property is owned in the name of the following Non-Profit Organization or Agency:

Please provide the City with a copy of those provisions from the organization's charter, bylaws or articles of incorporation which identify the board members or officers who are authorized to enter into agreement on behalf of the organization or agency. The individual who has signed the agreement should take a copy of the agreement and enclosed "All Purpose Acknowledgment Form" to a notary.

Our records indicate that your property is owned by the following Homeowners Association:

Please provide the City with a copy of those provisions from the Homeowners Association's community covenants and restrictions, bylaws or board minutes which identify the board members or officers who are authorized to enter into agreements on behalf of the Homeowners Association. The individual who has signed the agreement should take a copy of the agreement and enclosed "All Purpose Acknowledgment Form" to a notary.

Thank you for your assistance in this matter. Should you have any questions, please contact the following:

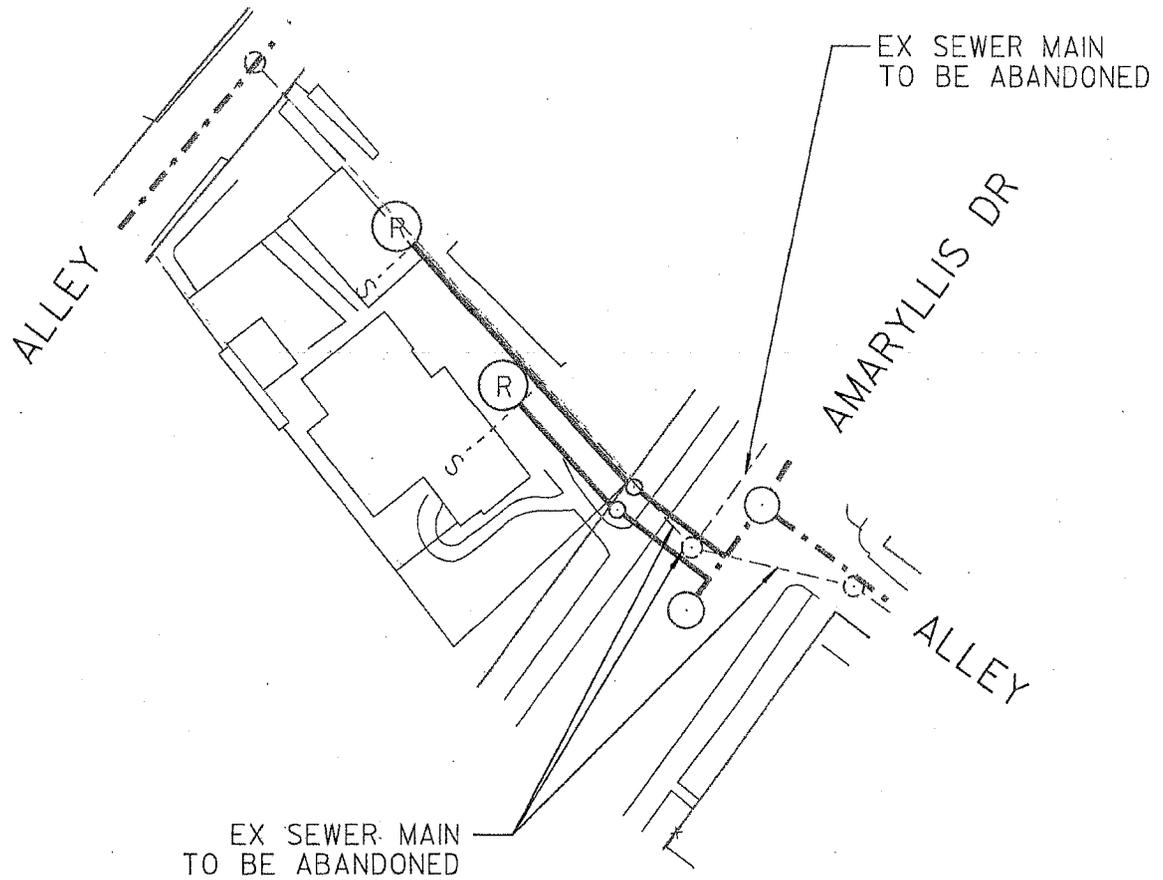
Sheila Gameuda
Project Engineer

(619) 533-5227
Phone

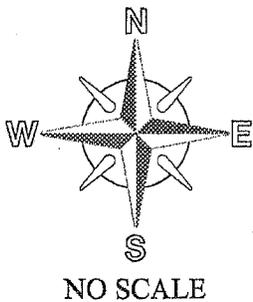
EXHIBIT "A"

(GJ 723)

SEWER LATERAL WITH PRIVATE REPLUMBING (3603 AMARYLLIS DR)



LEGEND:



PROPOSED SEWER MAIN	—————
PROPOSED SEWER MANHOLE	○
SEWER LATERAL REPLUMB	———○(R)
PROPOSED CLEANOUT	○
EXISTING SEWER MANHOLE	⊙
EXISTING SEWER MAIN	- - - - -
EXISTING SEWER LATERAL	- - - - - S

APPENDIX L

Sample Replumb Agreement with Pump System

AGREEMENT BETWEEN THE CITY AND THE PRIVATE PROPERTY OWNER TO CONSTRUCT A PRIVATE SEWER LATERAL AND PUMP SYSTEM

The City of San Diego [City] is constructing a new sewer main in the public right-of-way to replace the inaccessible main that currently serves your property in order to secure the health and safety of the citizenry. The name of the construction project improving the sewer serving your property is _____, WBS Element _____. In addition, the City has identified a general category of properties, which includes your property, that will require pump systems because of their geographic location in relation to the newly constructed sewer main. As a result, the City anticipates that on or about _____, the existing sewer main servicing _____ will be abandoned and service will be terminated. In order to connect to the new sewer main, a new private sewer lateral and pump system must be constructed to service the Property.

In order to expedite construction of the new sewer main, the City will provide to the owner(s) of the Property [Property Owner(s)] construction of a new private sewer lateral and pump system [Lateral and Pump] at no cost in accordance with the terms and conditions of this Agreement. If the Property Owner(s) reject(s) the City's offer to construct a Lateral and Pump, the Property Owner(s) must personally secure the construction of a Lateral and Pump, and connection to the new sewer main, or provide equally effective means of waste disposal, at Property Owner's(s') own expense. Further, Property Owner(s) who fail to construct a Lateral and Pump, or who do so incorrectly, and all other Property Owner(s) who reject the City's offer, are solely and fully responsible for any and all liability, claims, losses, damages, or injuries to any person or property relating to flooding from the sewer main, private sewer lateral, pump system, or any other related facility.

To take advantage of the City's offer of construction at no expense to the Property Owner(s), the Property Owner(s) must return to the City an original copy of this Agreement, with notarized signatures from all persons who have an ownership interest in the Property, to **Right of Way Design Division, Attn: Project Engineer Sheila Gamueda, 600 B Street, Suite 800, San Diego, CA 92101-4502** within thirty (30) days of its receipt. Failure to submit the signed Agreement within that time period constitutes a rejection of this Agreement, triggering all liability described above. The City may, in its sole discretion, accept the completed Agreement after the thirty days have elapsed. If the Property Owner(s) accept(s) the City's offer and the completed agreement is accepted by the City, then the parties agree as follows:

1. Right to Enter. Property Owner(s) authorize(s) the City, its officers, agents, employees, and independent contractors to enter upon the Property (APN# _____) for the purpose of constructing a Lateral and Pump [Right of Entry]. This Right of Entry is limited in time and shall automatically expire three hundred and sixty-five (365) days from the date the Notice of Completion is filed under the applicable construction contract.

- 2. City to Hire Contractor.** The City will hire a licensed contractor [Contractor] to construct a Lateral and Pump, provided that money is first authorized by the City Council or Mayor as required by law. The City's contractor shall design the Lateral and Pump and obtain a building permit, if required, for this work.
- 3. Construction of Lateral and Pump.** Construction of the Lateral and Pump includes any and all equipment, facilities, and/or appurtenances necessary to secure adequate sewer service from the Property to the new sewer main. The construction and equipment will include a lateral, cleanouts, Pump System(s), connection to the new main, and abandonment of the old private sewer lateral. The location and limits of this work will be substantially as shown Exhibit A (drawing) incorporated herein by this reference, or as otherwise agreed to in writing by the parties.
- 4. Contractor Obligations.** The Contractor will protect, shore, brace, support and maintain all underground pipes, conduits, drains, and other underground construction uncovered or otherwise affected by the construction of the Lateral and Pump. The Contractor will restore those portions of existing improvements that are affected by construction operations to their original or practical equivalent condition, as determined by the City, including pavement, decorative pavers, driveways, curbs, walks, tile, minor structures, retaining walls, utility poles, guy wires, fences, lawns, shrubs, and trees. Mature landscaping will be replanted with a practical and commercially available replacement and the Property Owner(s) shall be responsible for, in perpetuity, all maintenance and watering necessary to insure growth from the date planted.
- 5. Damage or Injury During Construction.** Property Owner(s) shall not be responsible for any damage to equipment or injury to the City's officers, agents, employees, or independent contractors incurred in performance of construction of the Lateral and Pump, except as caused by Property Owner's(s') negligence or willful misconduct.
- 6. Notification of Commencement.** The Contractor will be responsible for notifying the occupants of the Property at least ten (10) working days before starting construction.
- 7. City Inspection of Work.** Property Owner(s) shall allow City representatives to have reasonable access to the Property to verify that the Contractor's work was performed in accordance with applicable State and local plumbing, building, and health regulations. The City will perform a final inspection of the Lateral and Pump to confirm construction and for the purpose of determining whether the Lateral and Pump comply with or violate any enactment or contain or constitute a hazard to health and safety. The Property Owner(s) agree(s) that the City's approval is general approval only and that the Contractor is solely responsible for complying with all applicable laws, codes, and good construction practices.
- 8. Work Site Access, Hours, and Condition.** The Contractor will maintain pedestrian and vehicular access to the Property after working hours and as much as practical during working hours (7 a.m. to 3:30 p.m.). If there are any changes to the working hours, the Contractor will notify the Property Owner(s) or occupants of the Property at least 48 hours in advance. The Contractor will be required to keep the work site clean and free from rubbish and debris through all phases of construction. Upon completion of the work, the Contractor will remove all equipment, materials, and debris from the work site.

9. Warranty and Maintenance Obligations. After the City's final inspection, construction of the Lateral and Pump is considered complete. Upon completion, the Contractor will provide a warranty for the Contractor's work, guaranteeing for a period of one (1) year that the work is free from defects in workmanship or materials. Additionally, the Contractor will provide a five(5) year manufacturer's warranty for the Pump. The Contractor shall be responsible for any and all necessary work covered by the one (1) year warranty during that warranty period. Any warranties available on pipe materials, Pump equipment, or other materials, shall be provided by the Contractor and/or any manufacturer to the Property Owner(s). Upon completion, the Property Owner(s) shall bear full responsibility for any and all maintenance and/or power costs for the Lateral and Pump. In addition, the Property Owner(s) shall bear full responsibility for any and all repairs of the Lateral, Pump, and any and all equipment, facilities, and/or appurtenances including, but not limited to, anything not covered by any available warranties and anything not covered after expiration of any available warranties.

10. Maintenance of Pump. In order for the Pump to function properly and to efficiently provide adequate sewer service to the Property without spills, the Pump must be monitored and maintained at frequent intervals. The Property Owner(s) acknowledge(s) that such maintenance work is necessary at frequent intervals and that the maintenance must be performed by the Property Owner(s). Maintenance procedures and schedules will be provided to the Property Owner(s) by the Contractor. The Contractor is solely responsible for training the Property Owner(s) in the monitoring and maintenance of the Pump System.

11. Lump Sum Maintenance Payment. The City recognizes that installation of one or more Pumps on the Property will require the Property Owner(s) to incur additional monitoring and maintenance responsibilities, and additional expenses, in order to keep the Pump(s) working properly. In light of the public purposes of i) protecting the environment by relocating the sewer main from the canyon into the street; ii) preventing flooding damage; and iii) continuing efficient functioning of the sewer system by proper pump maintenance, the City agrees to pay a one-time lump sum amount to the Property Owner(s), not to exceed \$6,080.00, to be used for the sole purpose of paying power, maintenance, repair, or replacement expenses related to the Pump over its expected life. This payment in no way affects the City's liability as set forth in this Agreement and shall constitute the City's entire contribution to these costs in perpetuity.

12. Liability After Completion. Upon completion of construction of the Lateral and Pump, the Property Owner(s) shall release and agree to hold the City harmless from any and all liability for any damages caused or claimed to be caused by the design, construction, maintenance, repair, or presence of the Lateral and Pump, and from any liability or claims by any person arising from any conditions discovered at the Property or arising as a result of the work performed at the Property by the Contractor related to the subject matter of this Agreement. Under no circumstances shall the City be liable for any losses or damages, however caused, relating to the Lateral and Pump.

13. Section Headings. All captions and section headings are for convenience only and shall not affect the interpretation of this Agreement.

14. Counterparts. This Agreement may be executed in several counterparts. All counterparts collectively constitute one Agreement that is binding on all of the parties to this Agreement even though each of the signatory parties may have executed separate counterparts.

15. Authority to Execute. The parties signing this Agreement represent and warrant that they are legally authorized and competent to execute this Agreement.

16. Entire Understanding. This Agreement constitutes the entire Agreement between the parties, and supersedes any and all prior understanding, representations, warranties, and agreements on this issue.

17. Covenant Running with the Land. This Agreement is a covenant running with the Property and shall be binding upon the Property Owner(s) and any Successor(s), and the interests of any Successor(s). The interests of any Successor(s) shall be subject to each and every condition set out in this Agreement and all referenced documents. Property Owner(s) agree(s) to provide a copy of this Agreement to any prospective purchasers of the Property.

18. Notarization and Recording. This Agreement shall be executed in recordable form by the Property Owner(s) before a Notary Public. After this document has been fully executed by all of the parties, it shall be recorded by the City as an agreement affecting real property, in the Office of the Recorder of the County of San Diego, State of California.

IN WITNESS WHEREOF, this Agreement is executed by the City of San Diego, acting by and through its Mayor or designee, pursuant to the Mayor's delegation in accordance with San Diego City Charter section 265 authorizing such execution, and by the Property Owner(s).

PROPERTY OWNER(S)

THE CITY OF SAN DIEGO

By: _____

By: _____

- Individual
 - Trustee
 - Other/Specify: _____
- (Please Check **Only** One Box)

Downs Prior
Principal Contract Specialist
Purchasing & Contracting Department

Dated: _____

Dated: _____

Print Name/Title (if applicable)

By: _____

- Individual
 - Trustee
 - Other/Specify: _____
- (Please Check **Only** One Box)

Dated: _____

Print Name/Title (if applicable)

Print Name of Trust, Corporation, or other Entity
Holding Property (if
applicable): _____

Property Owner(s) Telephone
Number: _____

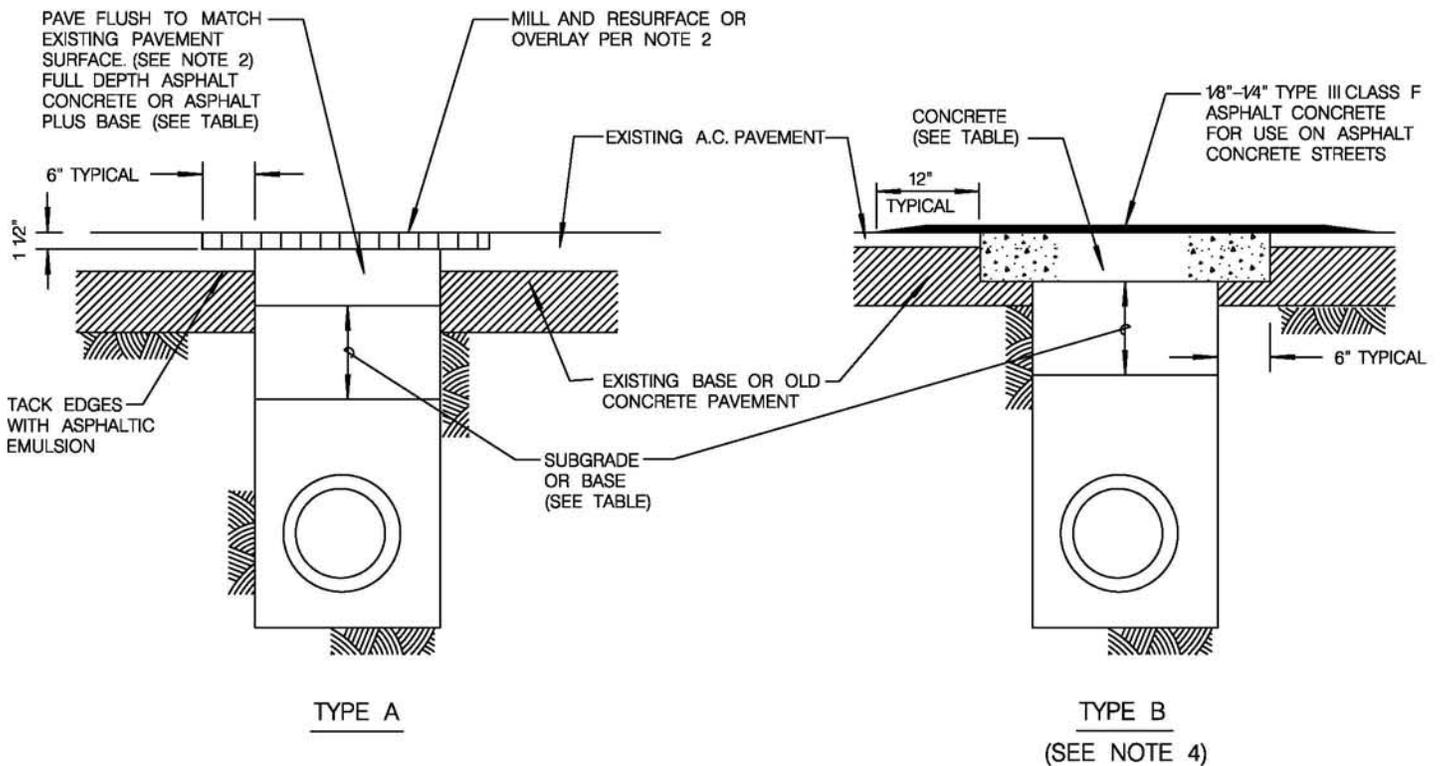
I HEREBY APPROVE the form and legality of the foregoing Agreement this _____ day
of _____, 20_____.

JAN I. GOLDSMITH, City Attorney

By: _____
Deputy City Attorney

APPENDIX M

Additional Construction Standard Drawings



	TYPE A		TYPE B
	ASPHALT	ASPHALT PLUS BASE	CONCRETE
MIX DESIGN	3/4" TYPE III CLASS B3	3/4" TYPE III CLASS B3 PLUS CLASS II BASE	560-C-3250
ALLEYS	8.0"	ASPHALT THICKNESS TO EQUAL	5.5"
LOCAL THROUGH 4 LANE COLLECTORS	10.0"	EXISTING PLUS 1", MIN 4" TO MAX. 9".	7.0"
MAJOR	12.0"	COMBINED ASPHALT PLUS BASE 18" MIN.	9.0"

NOTES:

1. ANY STREET TRENCH 7 FEET IN WIDTH OR GREATER AND LONGER THAN 100 FEET IN OVERALL LENGTH SHALL BE RECONSTRUCTED WITH THE PAVEMENT SECTION FOR THE STREET CLASSIFICATION PER SCHEDULE "J" (SDG-113).
2. ASPHALT TRENCH CAPS IN STREETS NOT RECEIVING A FULL WIDTH OVERLAY PRIOR TO ACCEPTANCE SHALL BE MILLED AS SHOWN AND RESURFACED WITH 1/2" TYPE III CLASS C2 ASPHALT NO LESS THAN 30 DAYS AFTER INITIAL ASPHALT PLACEMENT.
3. 560-C-3250 CONCRETE TREATED WITH A MINIMUM 2% CALCIUM CHLORIDE SOLUTION IN ACCORDANCE WITH 201-1 OR 650-CW-4000 (W/O CC) CONCRETE MAY BE OPENED TO TRAFFIC 3 DAYS AFTER IT IS PLACED. 650-CW-4000 CONCRETE TREATED IN SAME MANNER (WCC) MAY BE OPENED TO TRAFFIC 24 HOURS AFTER IT IS PLACED. CONCRETE SPECIFIED BY ALTERNATE CLASS OR OTHERWISE CONTAINING FLY ASH IS NOT ALLOWED.
4. USE TYPE "A" UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE CITY ENGINEER.

REVISION	BY	APPROVED	DATE
ORIGINAL		J.P. CASEY	1/24/09
UPDATED	KA	J. NAGELVOORT	01/12

CITY OF SAN DIEGO - STANDARD DRAWING

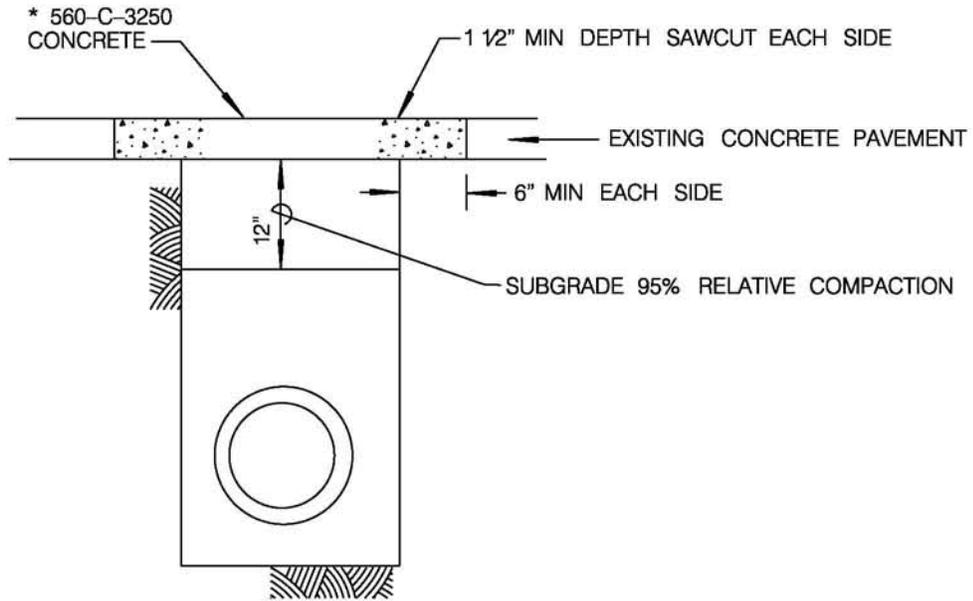
**TRENCH RESURFACING FOR ASPHALT
CONCRETE SURFACED STREETS**

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

H. Hadli 1/31/2012

COORDINATOR R.C.E. 65271 DATE

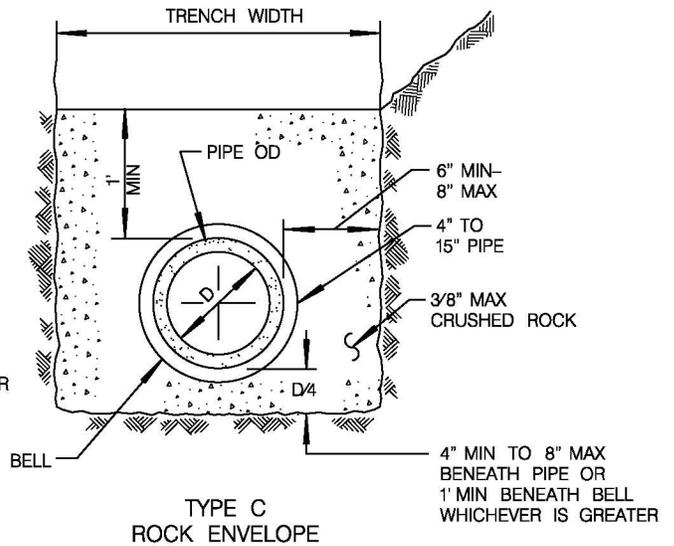
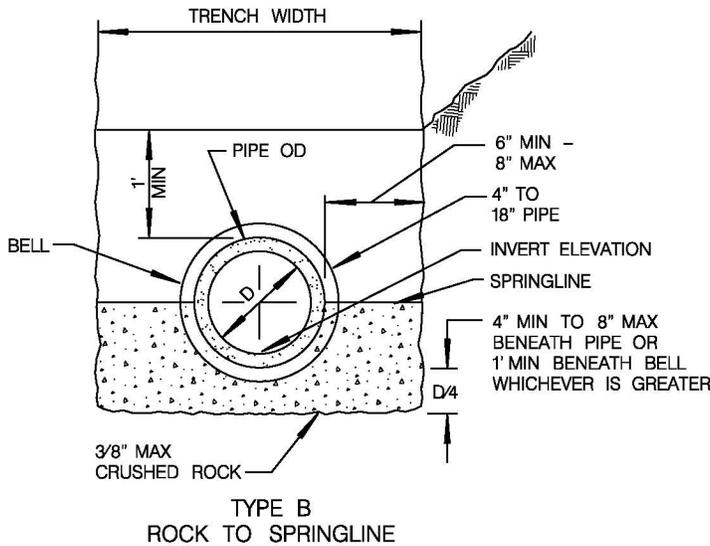
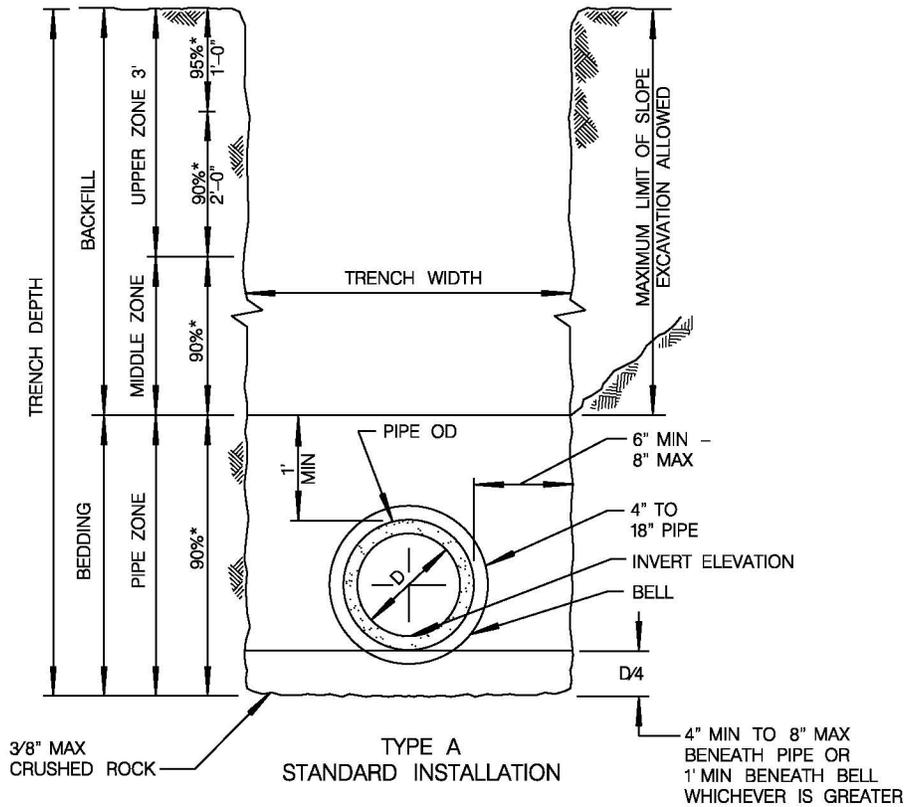
DRAWING NUMBER **SDG-107**



NOTES

1. EXISTING CONCRETE PAVEMENT SHALL BE REMOVED.
 2. PRIOR TO PLACING CONCRETE, PAVEMENT EDGES SHALL BE TRIMMED TO NEAT HORIZONTAL AND VERTICAL LINES.
 3. UNLESS OTHERWISE SPECIFIED, CONCRETE TRENCH COVER SHALL BE A MINIMUM OF 5 1/2" FOR ALLEYS, 7" FOR LOCAL THROUGH FOUR LANE COLLECTOR STREETS AND 9" THICK FOR ALL MAJOR OR GREATER STREET CLASSIFICATIONS.
 4. ANY STREET TRENCH 7' IN WIDTH OR GREATER AND LONGER THAN 100' IN LENGTH SHALL BE RECONSTRUCTED WITH THE PAVEMENT SECTION FOR THE STREET CLASSIFICATION PER SCHEDULE "J" (SDG-113). STREET TRENCH SECTIONS 7' IN WIDTH OR GREATER BUT LESS THAN 100' IN OVERALL LENGTH SHALL BE RESURFACED TO A THICKNESS OF 1" GREATER THAN REQUIRED BY NOTE 3 ABOVE.
- * IN FOUR-LANE MAJOR OR GREATER STREETS, AN APPROVED SET ACCELERATING ADMIXTURE SUCH AS CALCIUM CHLORIDE, SHALL BE USED IN THE CONCRETE.

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO - STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE	
ORIGINAL		J. CASEY	01/89		<i>J. Nagelvoort</i>	1/31/2012
UPDATED	KA	J. NAGELVOORT	01/12	TRENCH RESURFACING FOR PCC SURFACED STREETS	COORDINATOR R.C.E. 65271 DATE	
					DRAWING NUMBER	SDG-108



NOTES

- FOR TRENCH RESURFACING IN IMPROVED STREETS, SEE STANDARD DRAWINGS SDG-107 AND SDG-108.
- (*) INDICATES MINIMUM RELATIVE COMPACTION.
- MINIMUM DEPTH OF COVER FROM THE TOP OF PIPE TO FINISH GRADE FOR PVC SDR 35 SEWER MAIN SHALL BE 5'. FOR SHALLOWER DEPTH, SPECIAL DESIGN IS REQUIRED.
- SEE TYPE A INSTALLATION FOR DETAILS NOT SHOWN FOR TYPES B AND C.
- FOR PIPE SIZE ENCASEMENT LARGER THAN 15", MAXIMUM SIDE WALL CLEARANCE SHALL BE 12" OR AS SHOWN ON THE PLANS.
- 6" METAL TAPE SHALL BE INSTALLED ABOVE PIPE 4" BELOW TRENCH CAP AND 12" BELOW FINISH GRADE IN UNIMPROVED STREETS.
- 1' SAND CUSHION OR A 6" MINIMUM SAND CUSHION WITH 1" NEOPRENE PAD SHALL BE PLACED FOR CROSSINGS UTILITIES WHEN VERTICAL CLEARANCE IS 1' OR LESS. THE NEOPRENE PAD SHALL BE PLACED ON THE MOST FRAGILE UTILITY.

REVISION	BY	APPROVED	DATE
ORIGINAL	RA	A. OSKOUI	12/06
UPDATED	KA	J. NAGELVOORT	01/12

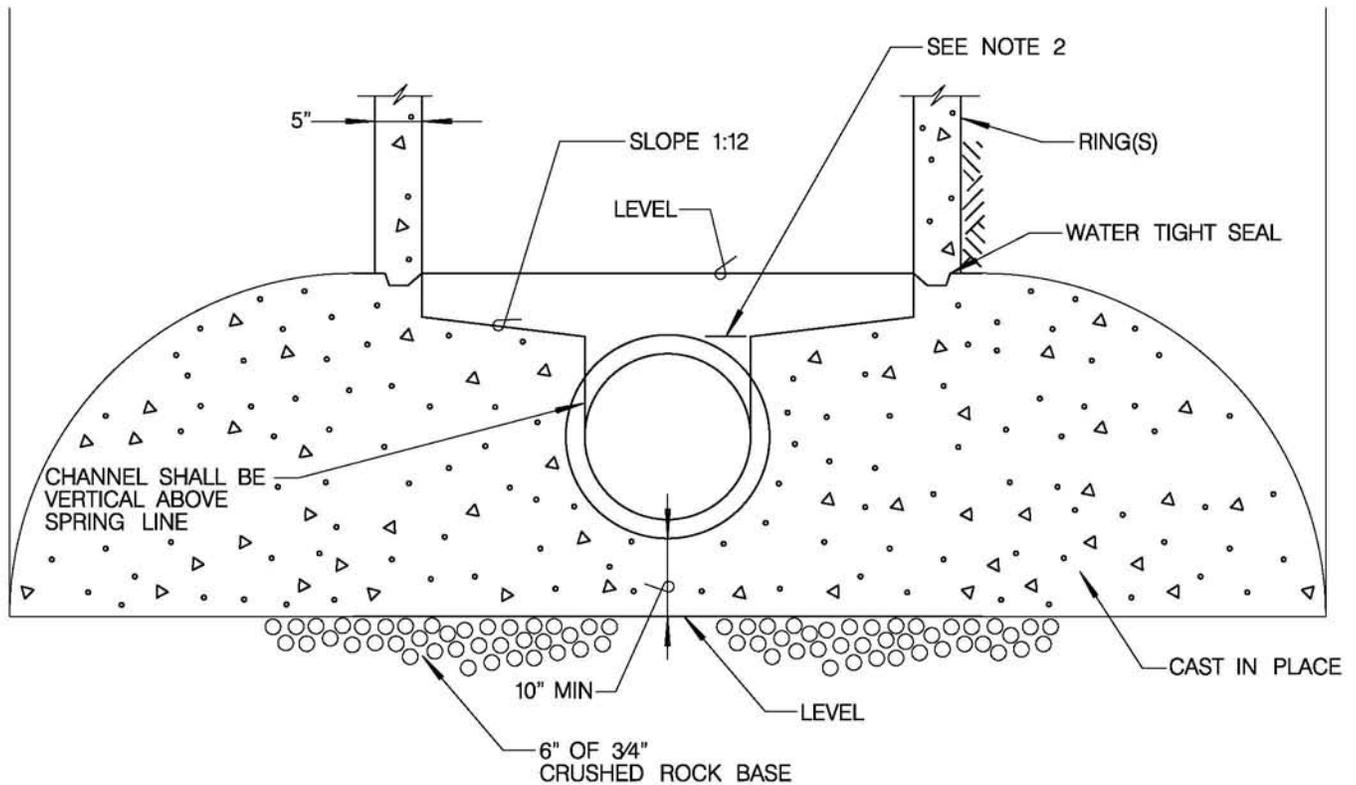
CITY OF SAN DIEGO - STANDARD DRAWING

**PIPE BEDDING AND TRENCH BACKFILL
FOR SEWERS**

RECOMMENDED BY THE CITY OF SAN DIEGO
STANDARDS COMMITTEE

H. Hadli 1/31/2012
COORDINATOR R.C.E. 65271 DATE

DRAWING
NUMBER **SDS-110**



NOTES:

1. MANHOLE BASES FOR MAINS 18" AND LARGER SHALL BE COATED.
2. LOWEST POINT ON SHELF SHALL BE EVEN WITH TOP OF PIPE.
3. CAST IN PLACE MANHOLE BASES CAST WITH 560-C-3250 SHALL BE CURED A MINIMUM OF THREE DAYS PRIOR TO STACKING MANHOLE. BASES CAST WITH 660-CW-4000 (WITHOUT CALCIUM CHLORIDE (CC)) OR WITH 560-C-3250 TREATED WITH A MINIMUM OF 2% CC SOLUTION IN ACCORDANCE WITH 201-1 SHALL BE CURED A MINIMUM OF 24 HOURS. THESE CURING REQUIREMENTS APPLY TO MANHOLES WITH A MAXIMUM HEIGHT OF 25'. SHORTER CURING TIMES, DEEPER INSTALLATIONS, AND ALTERNATE CONCRETE MIX DESIGNS REQUIRE ENGINEER'S PRIOR APPROVAL.
4. CONCRETE SPECIFIED BY ALTERNATE CLASS OR OTHERWISE CONTAINING FLY ASH IS NOT ALLOWED FOR USE IN CAST IN PLACE MANHOLES.
5. CONCRETE MIX DESIGNS CONTAINING ACCELERATING ADMIXTURES OTHER THAN CC REQUIRE A BREAK HISTORY AND ENGINEER'S APPROVAL.

REVISION	BY	APPROVED	DATE
ORIGINAL*	KA	J. NAGELVOORT	01/12

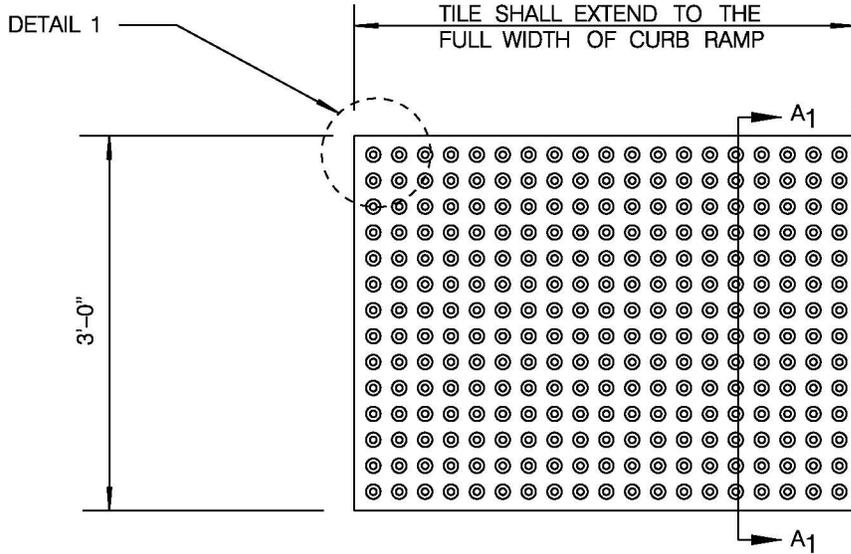
CITY OF SAN DIEGO - STANDARD DRAWING

SEWER MANHOLE BASE

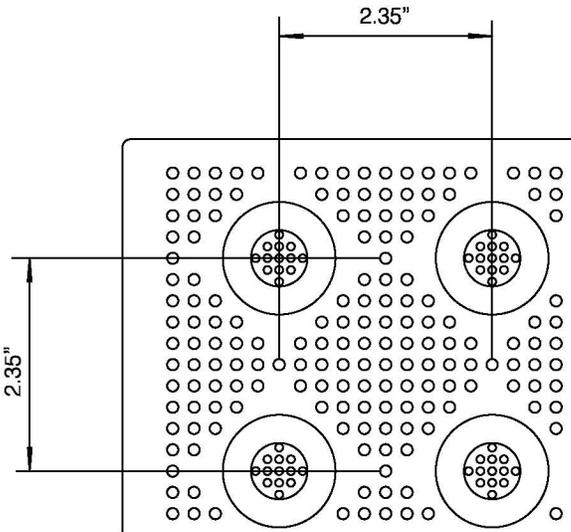
RECOMMENDED BY THE CITY OF SAN DIEGO
STANDARDS COMMITTEE

H. Hadli 1/31/2012
COORDINATOR R.C.E. 65271 DATE

DRAWING
NUMBER **SDS-120**



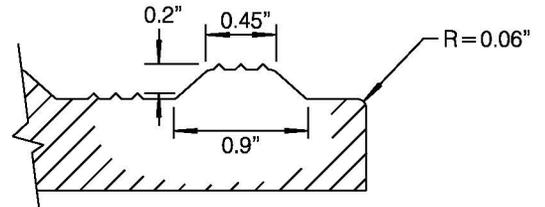
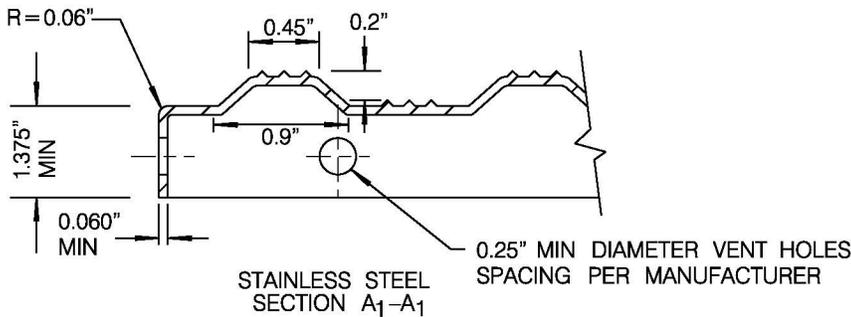
PLAN - TILE



DETAIL 1

NOTES

1. THE DETECTABLE /TACTILE WARNING TILE SHALL BE SLIP RESISTANT AND CONSIST OF AN INLINE PATTERN OF RAISED TRUNCATED DOMES.
2. COLOR: THE DETECTABLE /TACTILE WARNING TILE SHALL BE YELLOW CONFORMING TO FEDERAL STANDARDS 595B TABLE IV, COLOR NO. 33538.



DETECTABLE / TACTILE WARNING TILES

SHEET 1 OF 5

REVISION	BY	APPROVED	DATE
ORIGINAL	FC	A. OSKOUI	1203
UPDATE	FC	A. OSKOUI	1206
UPDATE	FC	A. OSKOUI	0207
UPDATE	FC	A. OSKOUI	1208
UPDATE	KA	J. NAGELVOORT	01/12

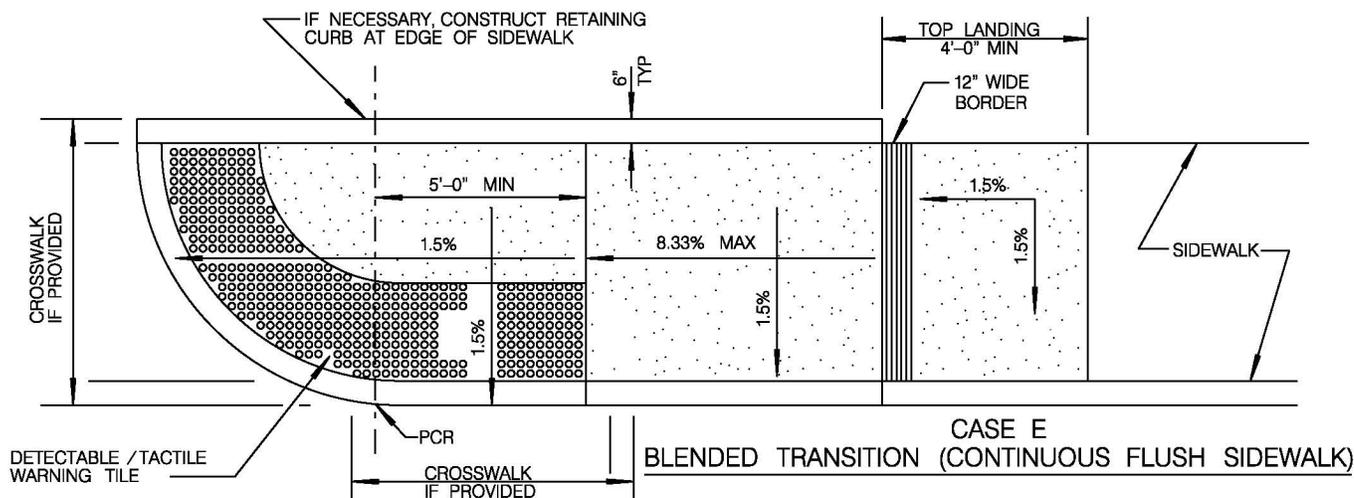
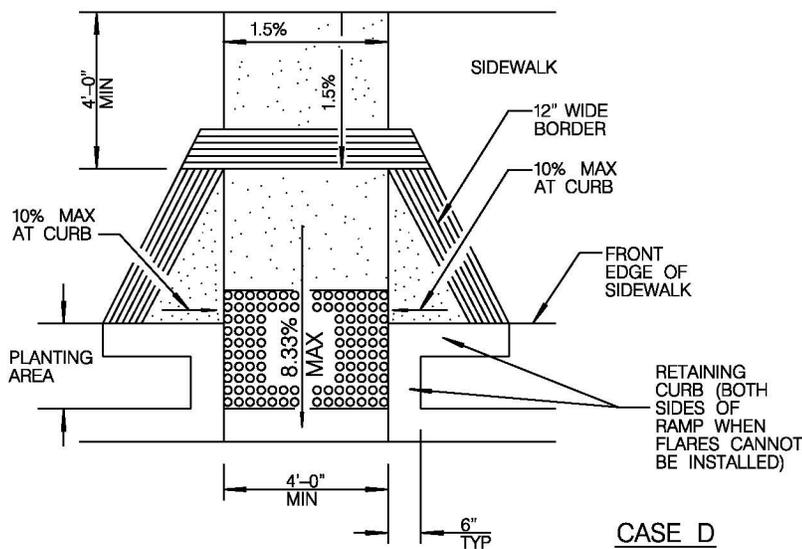
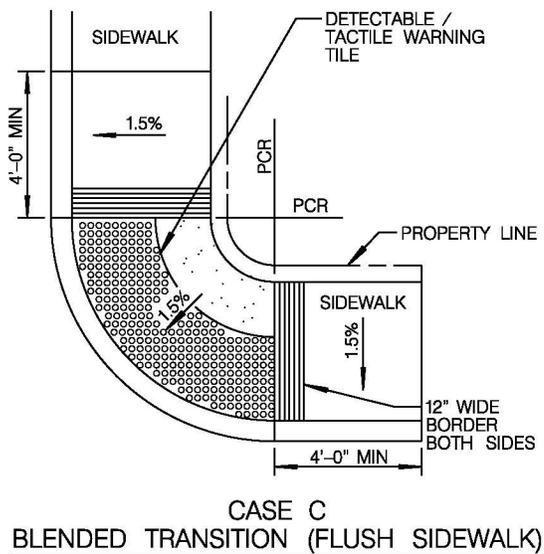
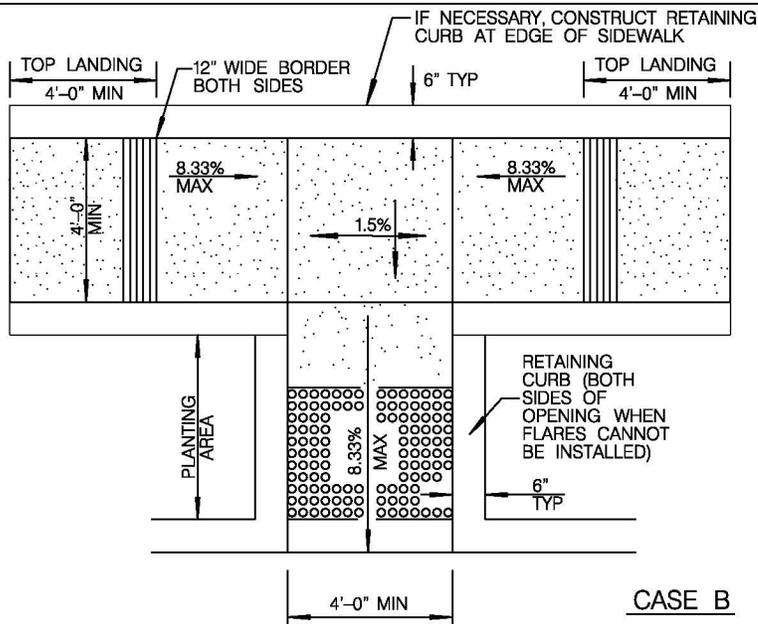
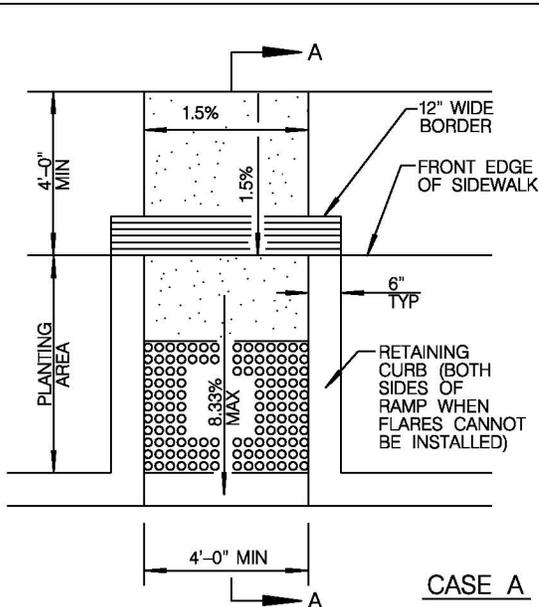
CITY OF SAN DIEGO - STANDARD DRAWING

**GENERAL CURB RAMP NOTES
& SUPPLEMENTAL DETAILS**

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

H. Hadli 1/31/2012
COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER **SDG-130**



NOTE:
CASE A THRU E MAY BE USED ONLY WITH APPROVAL OF THE ENGINEER.

SHEET 2 OF 5

REVISION	BY	APPROVED	DATE
ORIGINAL	SS	A. OSKOUI	12/03
UPDATE	FC	A. OSKOUI	12/06
UPDATE	FC	A. OSKOUI	12/08
UPDATE	KA	J. NAGELVOORT	01/12

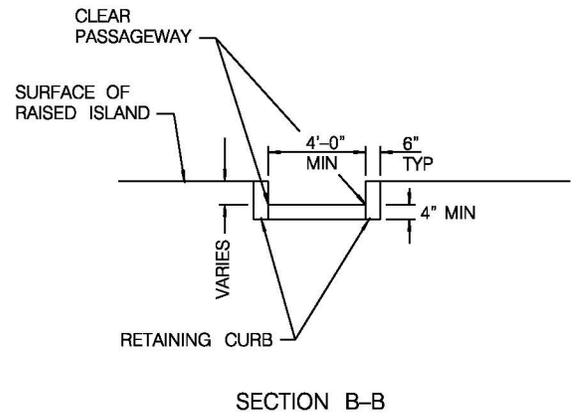
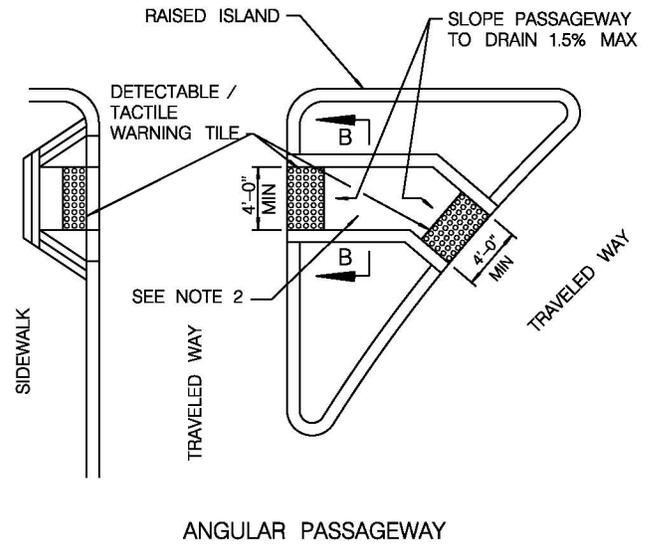
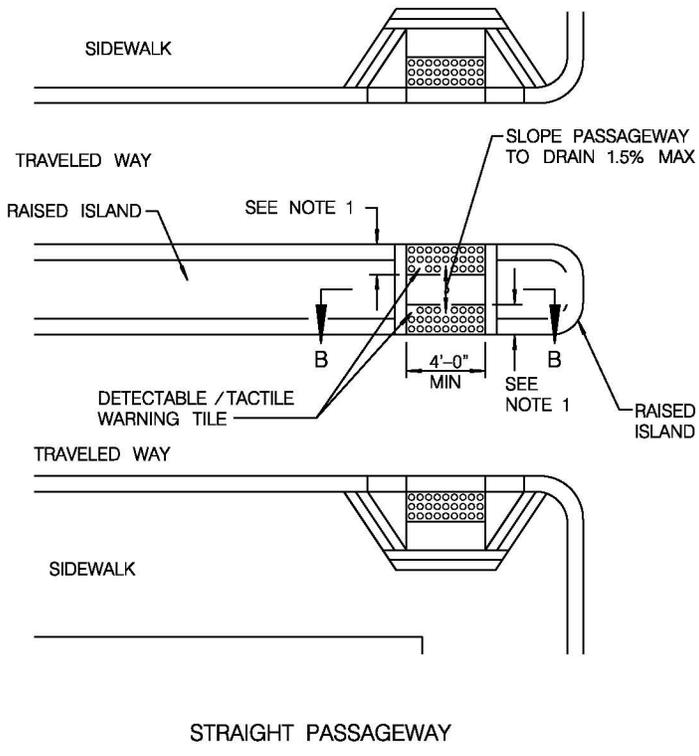
CITY OF SAN DIEGO - STANDARD DRAWING

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

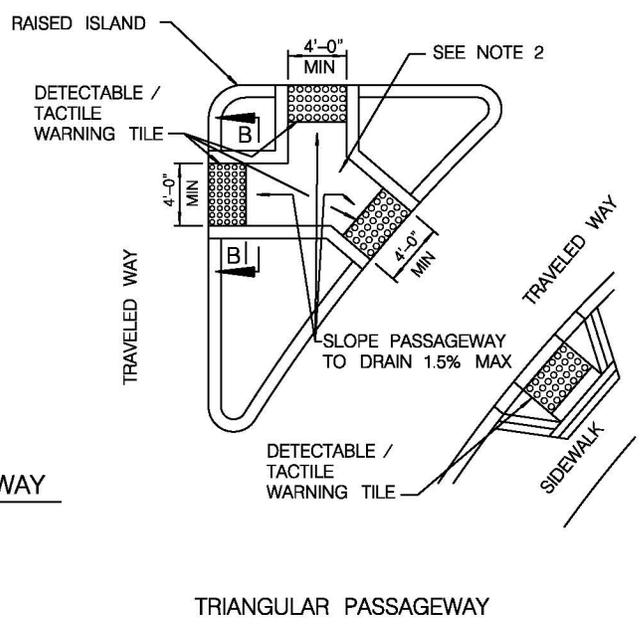
H. Hadali
1/31/2012
COORDINATOR R.C.E. 65271 DATE

GENERAL CURB RAMP
NOTES & SUPPLEMENTAL DETAILS

DRAWING NUMBER **SDG-130**



- NOTES:
1. WHERE AN ISLAND PASSAGEWAY LENGTH IS LESS THAN OR EQUAL TO 8'-0", THE DETECTABLE / TACTILE WARNING TILE SHALL EXTEND THE FULL WIDTH AND FULL LENGTH OF THE PASSAGEWAY. WHERE AN ISLAND PASSAGEWAY LENGTH IS GREATER THAN 8'-0", A DETECTABLE / TACTILE WARNING TILE SHALL EXTEND THE FULL WIDTH AND 3'-0" DEPTH OF THE PASSAGEWAY LENGTH.
 2. THE DETECTABLE / TACTILE WARNING TILES AT FLUSH REFUGE OR PASSAGEWAY SHALL BE IN LINE WITH MEDIAN EDGE.
 3. FOR FLUSH ISLAND PASSAGEWAY, DETECTABLE WARNING TILE SHALL BE STAINLESS STEEL OR REPLACEABLE PANELS PLACED ON CONCRETE PASSAGEWAY.



ISLAND PASSAGEWAY

TRIANGULAR PASSAGEWAY

SHEET 3 OF 5

REVISION	BY	APPROVED	DATE
ORIGINAL	SS	A. OSKOUI	12/03
UPDATE	FC	A. OSKOUI	12/06
UPDATE	FC	A. OSKOUI	12/08
UPDATE	KA	J. NAGELVOORT	01/12

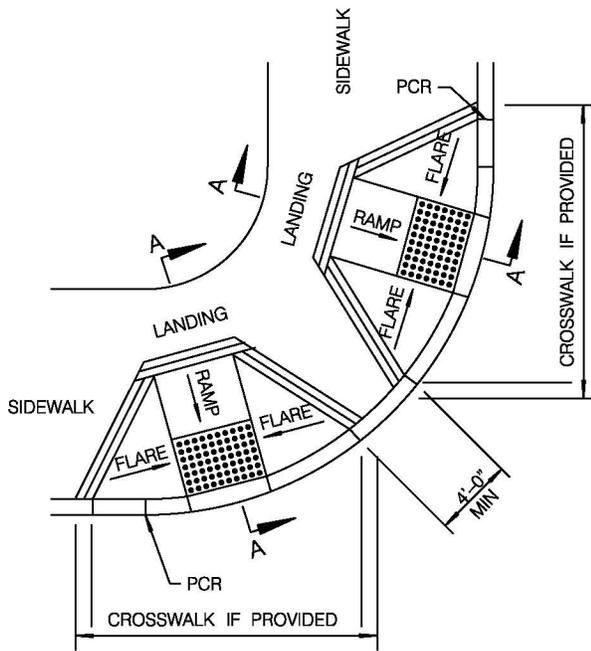
CITY OF SAN DIEGO - STANDARD DRAWING

**GENERAL CURB RAMP NOTES
& SUPPLEMENTAL DETAILS**

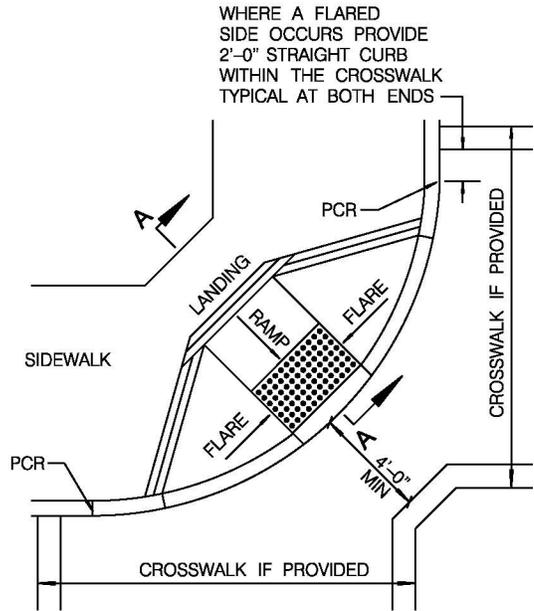
RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

H. Hadli 1/31/2012
COORDINATOR R.C.E. 65271 DATE

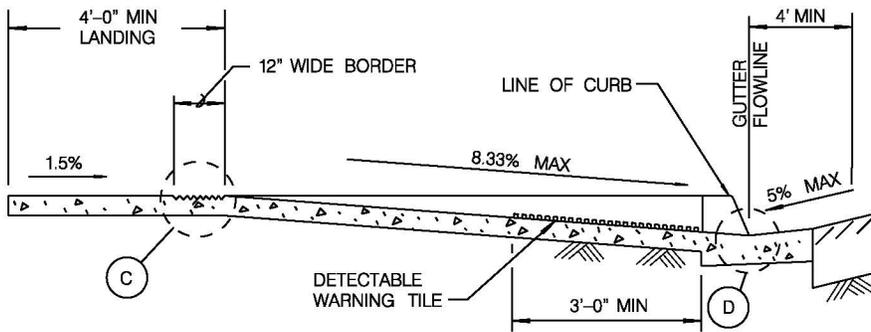
DRAWING NUMBER **SDG-130**



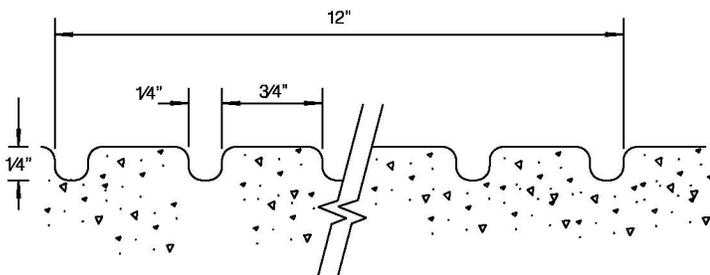
DETAIL A
TWO-RAMP CORNER INSTALLATION



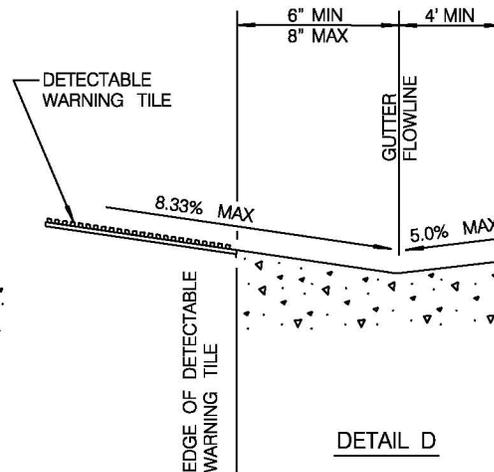
DETAIL B
TYPICAL ONE-RAMP
CORNER INSTALLATION



SECTION A-A



DETAIL C



DETAIL D

SHEET 4 OF 5

REVISION	BY	APPROVED	DATE
ORIGINAL	SS	A. OSKOUI	12/03
UPDATE	FC	A. OSKOUI	12/06
UPDATE	FC	A. OSKOUI	12/08
UPDATE	KA	J. NAGELVOORT	01/12

CITY OF SAN DIEGO - STANDARD DRAWING

**GENERAL CURB RAMP NOTES
& SUPPLEMENTAL DETAILS**

RECOMMENDED BY THE CITY OF SAN DIEGO
STANDARDS COMMITTEE

H. Hadali 1/31/2012
COORDINATOR R.C.E. 65271 DATE

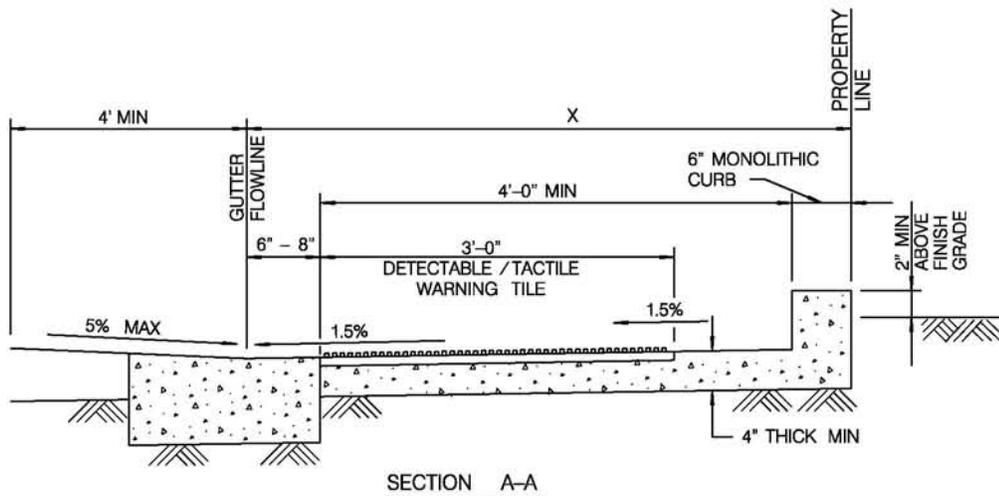
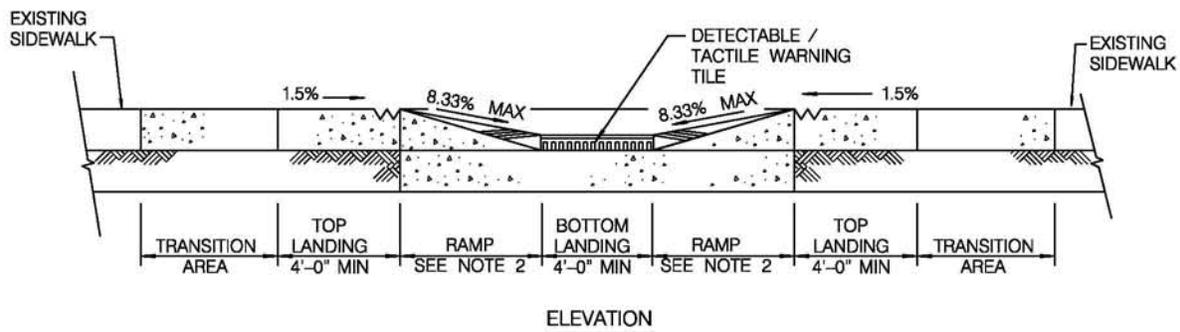
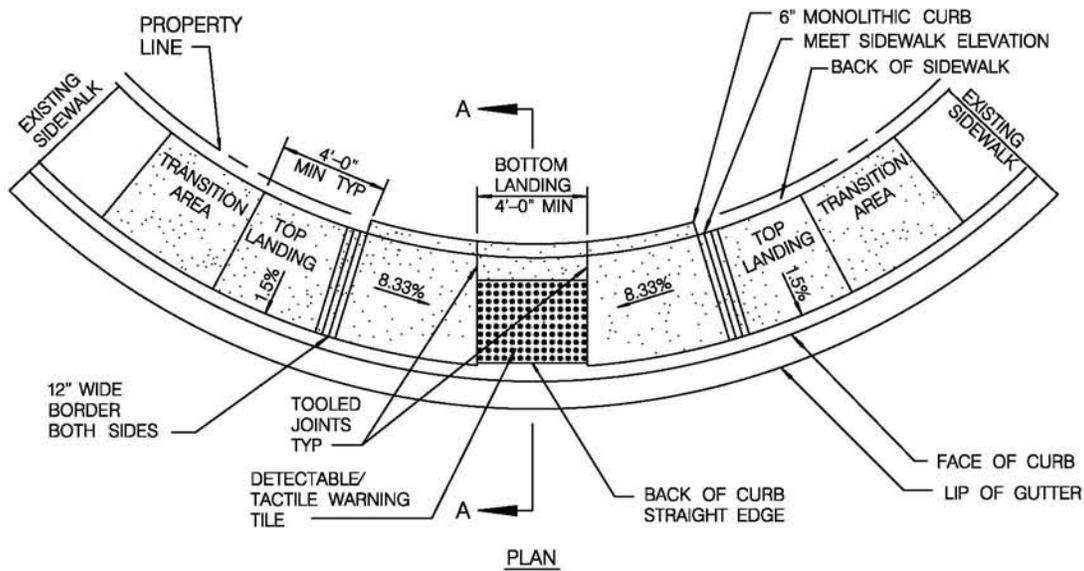
DRAWING NUMBER **SDG-130**

NOTES

1. AS SITE CONDITIONS DICTATE, 2 CURB RAMPS MAY BE USED FOR CORNER INSTALLATIONS SIMILAR TO THOSE SHOWN IN DETAIL A. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO THE APPLICATION OF CASES A THROUGH D SHEET 2 OF 5.
2. WHEN A CURB RAMP IS LOCATED IN THE CENTER OF THE CURB RETURN, CROSSWALK CONFIGURATION SHALL BE SIMILAR TO DETAIL B.
3. CURB RAMP SURFACES (FLARES AND RAMP) SHALL HAVE A MEDIUM TO HEAVY BROOM TEXTURED FINISH, PERPENDICULAR TO THE AXIS OF TRAVEL.
4. THE CURB RAMP SHALL BE OUTLINED WITH A 12" BORDER, WITH 1/4" GROOVES APPROXIMATELY 3/4" ON CENTER. SEE DETAIL C.
5. CURB RAMPS SHALL BE CONCRETE CLASS 520-C-2500.
6. INSTALL 1/4" EXPANSION JOINT FILLER MATERIAL BETWEEN A NEW CURB RAMP AND THE EXISTING SIDEWALKS.
7. TOOLED JOINT - PROVIDE 1/4" DEEP GROOVE WITH 1/4" RADIUS EDGES. GROVE SHALL NOT EXTEND TO BOTTOM CURB OR GUTTER.
8. IF OBSTRUCTIONS SUCH AS INLETS, POLES, FIRE HYDRANT, ETC., ARE ENCOUNTERED, THE RAMP LOCATION(S) MAY BE ADJUSTED ONLY UPON THE EVALUATION & APPROVAL OF THE ENGINEER.
9. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BUILD-UP ASPHALT AT THE BOTTOM OF THE CURB RAMP BETWEEN THE GUTTER AND THE STREET SHALL BE MILLED TO ACHIEVE THE REQUIRED FLUSH TRANSITION.
10. IF THE 4' 5% MAXIMUM COUNTER SLOPE AT THE BOTTOM OF THE RAMP (AT STREET TRANSITION) CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS, THE RAMP SLOPE SHALL BE ADJUSTED SO THE SUM OF BOTH SLOPES DOESN'T EXCEED 13.3%.
11. IF THE CONDITION OF THE STREET AND SIDEWALK IS SUCH THAT THE EXISTING SLOPES DO NOT ALLOW THE INSTALLATION OF THE REQUIRED CURB RAMP SLOPE, THEN THE RAMP SHALL BE EXTENDED UP TO A MAXIMUM LENGTH OF 15'-0" (LINEAR FEET) TO CATCH THE REQUIRED SLOPE EVEN IF THE REQUIRED SLOPE IS NOT ACHIEVED. COORDINATION WITH ENGINEER IS REQUIRED PRIOR TO ANY DEMOLITION OR CONSTRUCTION.
12. THE REMOVAL OF EXISTING CONCRETE CURB, GUTTER, SIDEWALK, AND PAVEMENT (OR CURB RAMP) FOR A NEW CURB RAMP SHALL COMPLY WITH SDG-156. THE REMOVAL OF ADDITIONAL SIDEWALK PANELS MAY BE REQUIRED TO MEET EXISTING GRADE AND TO COMPLY WITH THE ACCESSIBILITY REGULATIONS.
13. PROVIDE A 2" X 2" KEYWAY BENEATH SAWCUT EDGES OF THE EXISTING SIDEWALK.
14. THE CROSS SLOPE OF THE RAMP SHALL BE 1.5%.
15. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED.
16. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.
17. IF THE CROSS SLOPE OF THE SIDEWALK ADJACENT TO THE CURB RAMP IS MORE THAN 2%, PROVIDE A MINIMUM 4' TRANSITION.
18. HISTORICAL STAMPS/IMPRESSIONS SHALL BE PRESERVED PER SDG-115.
19. UTILITY PULL BOXES, MANHOLES, VAULTS AND OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP SHALL BE RELOCATED OR ADJUSTED TO GRADE PRIOR TO, OR IN CONJUNCTION WITH THE CURB RAMP CONSTRUCTION. COORDINATE WITH THE ENGINEER.
20. ANY DEVIATION FROM THESE PROVISIONS REQUIRES PRIOR APPROVAL BY THE ENGINEER.

SHEET 5 OF 5

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO - STANDARD DRAWING GENERAL CURB RAMP NOTES & SUPPLEMENTAL DETAILS	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE  1/31/2012 COORDINATOR R.C.E. 65271 DATE
ORIGINAL	SS	A. OSKOUI	12/03		
UPDATE	FC	A. OSKOUI	12/06		
UPDATE	FC	A. OSKOUI	12/08		
UPDATE	KA	J. NAGELVOORT	01/12		
Appendix M - Additional Construction Standard Drawings					DRAWING NUMBER SDG-130



NOTES

1. TYPE C1 CURB RAMP SHALL ONLY BE USED TO MITIGATE EXISTING CONDITIONS WHERE INADEQUATE RIGHT OF WAY EXISTS. TYPE C1 SHALL BE USED WHEN $X < 8'$. X = DISTANCE FROM FACE OF CURB TO PROPERTY LINE.
2. SEE SDG-130 FOR ADDITIONAL CURB RAMP DETAILS AND INFORMATION.

REVISION	BY	APPROVED	DATE
ORIGINAL	SS	A. OSKOUI	12/03
UPDATE	FC	A. OSKOUI	12/06
UPDATE	FC	A. OSKOUI	12/08
UPDATE	KA	J. NAGELVOORT	01/12

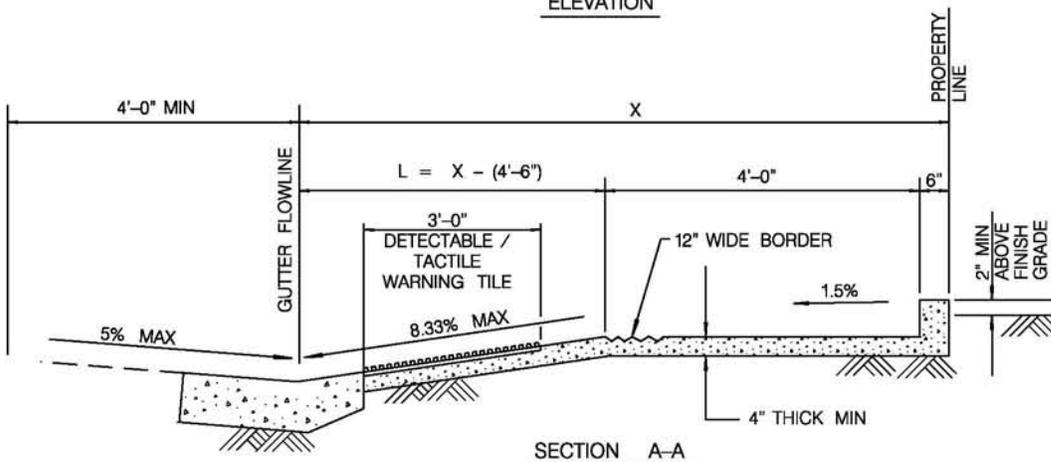
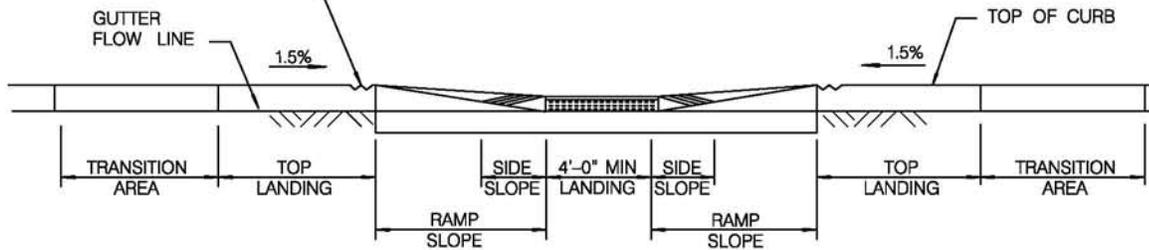
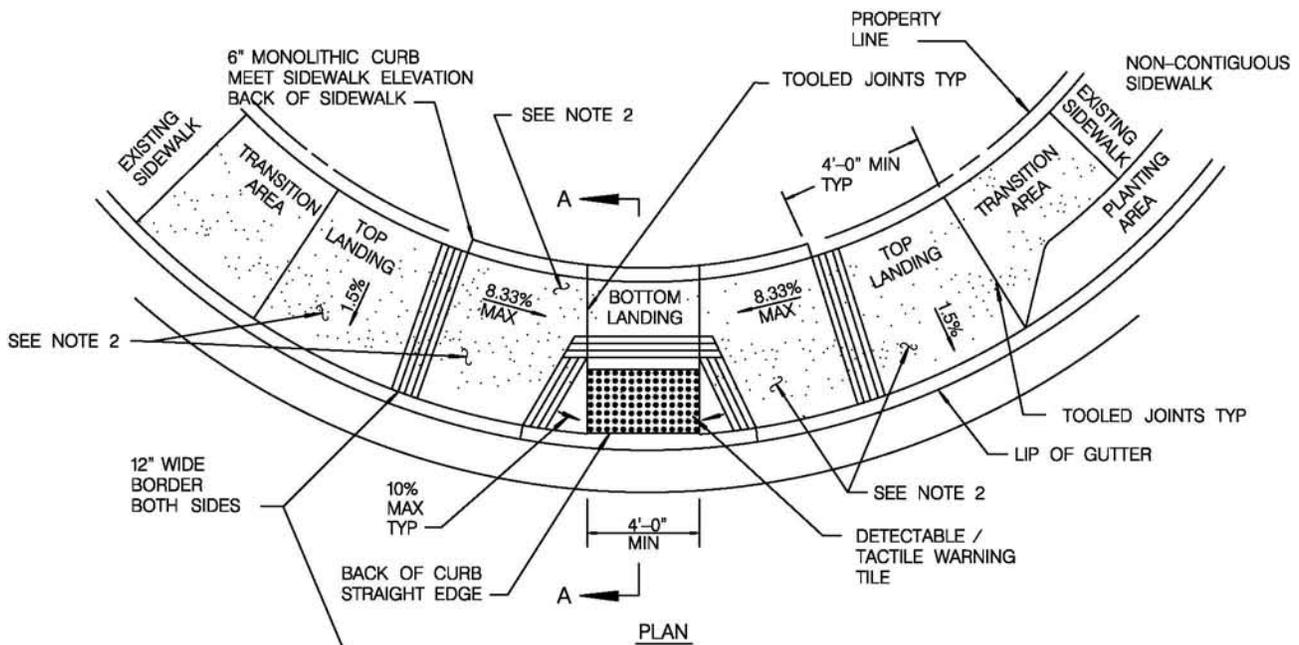
CITY OF SAN DIEGO - STANDARD DRAWING

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

H. Hadli 1/31/2012
COORDINATOR R.C.E. 65271 DATE

CURB RAMP - TYPE C1

DRAWING NUMBER **SDG-134**



NOTES

1. TYPE C2 CURB RAMP SHALL ONLY BE USED TO MITIGATE EXISTING CONDITIONS WHERE INADEQUATE RIGHT OF WAY EXISTS. TYPE C2 SHALL BE USED WHEN $X=8'$ OR $8' < X < 10'$. X =DISTANCE FROM FACE OF CURB TO PROPERTY LINE.
2. SEE SDG-130 FOR ADDITIONAL CURB RAMP DETAILS AND INFORMATION.

REVISION	BY	APPROVED	DATE
ORIGINAL	SS	A. OSKOJI	12/03
UPDATE	FC	A. OSKOJI	12/06
UPDATE	FC	A. OSKOJI	12/08
UPDATE	KA	J. NAGELVOORT	01/10

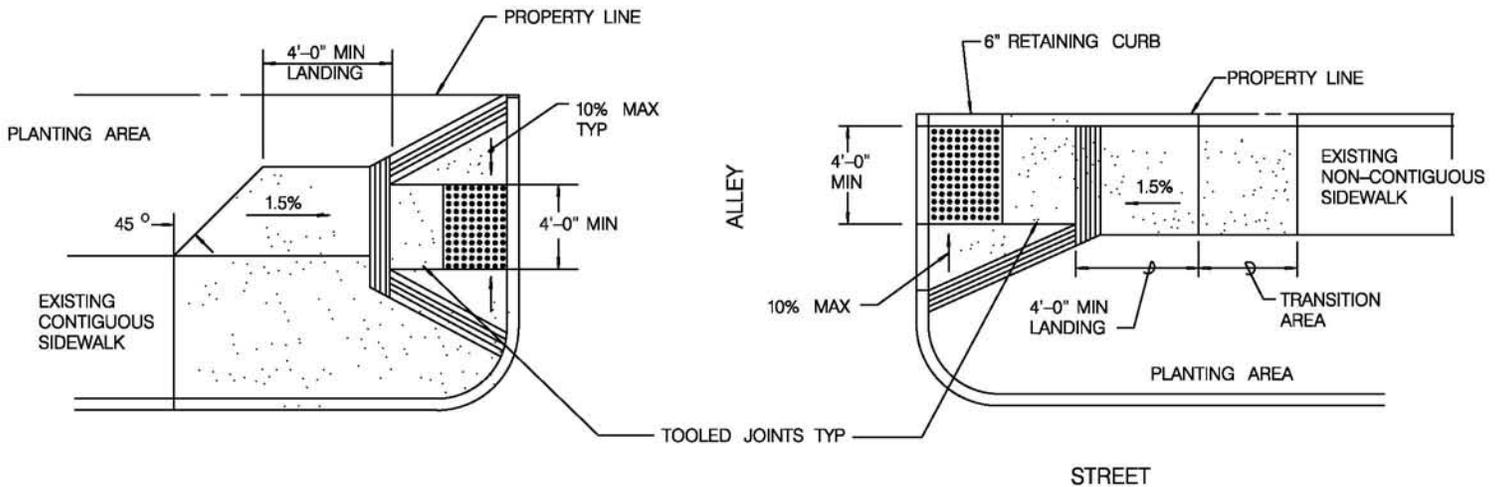
CITY OF SAN DIEGO - STANDARD DRAWING

CURB RAMP - TYPE C2

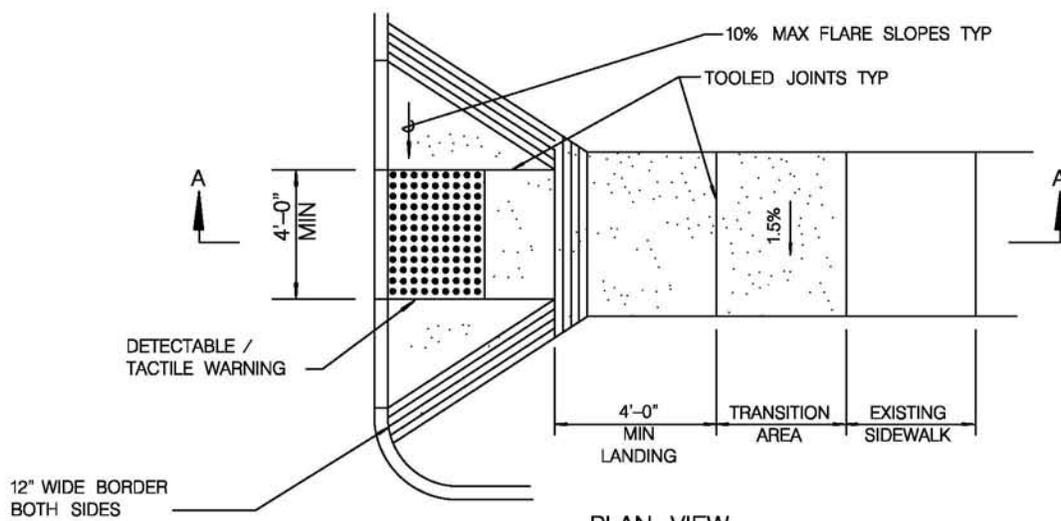
RECOMMENDED BY THE CITY OF SAN DIEGO
STANDARDS COMMITTEE

H. Hadli 1/31/2012
COORDINATOR R.C.E. 65271 DATE

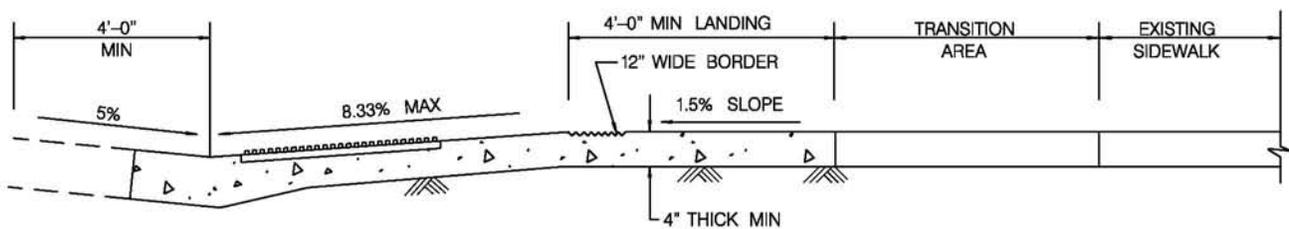
DRAWING
NUMBER **SDG-135**



TYPICAL PLAN



PLAN VIEW



SECTION A-A

NOTES:

1. SEE SDG-130 FOR ADDITIONAL CURB RAMP DETAILS AND INFORMATION

REVISION	BY	APPROVED	DATE
ORIGINAL	SM	A. OSKOUI	1203
UPDATE	FC	A. OSKOUI	1206
UPDATE	FC	A. OSKOUI	1208
UPDATE	KA	J. NAGELVOORT	01'12

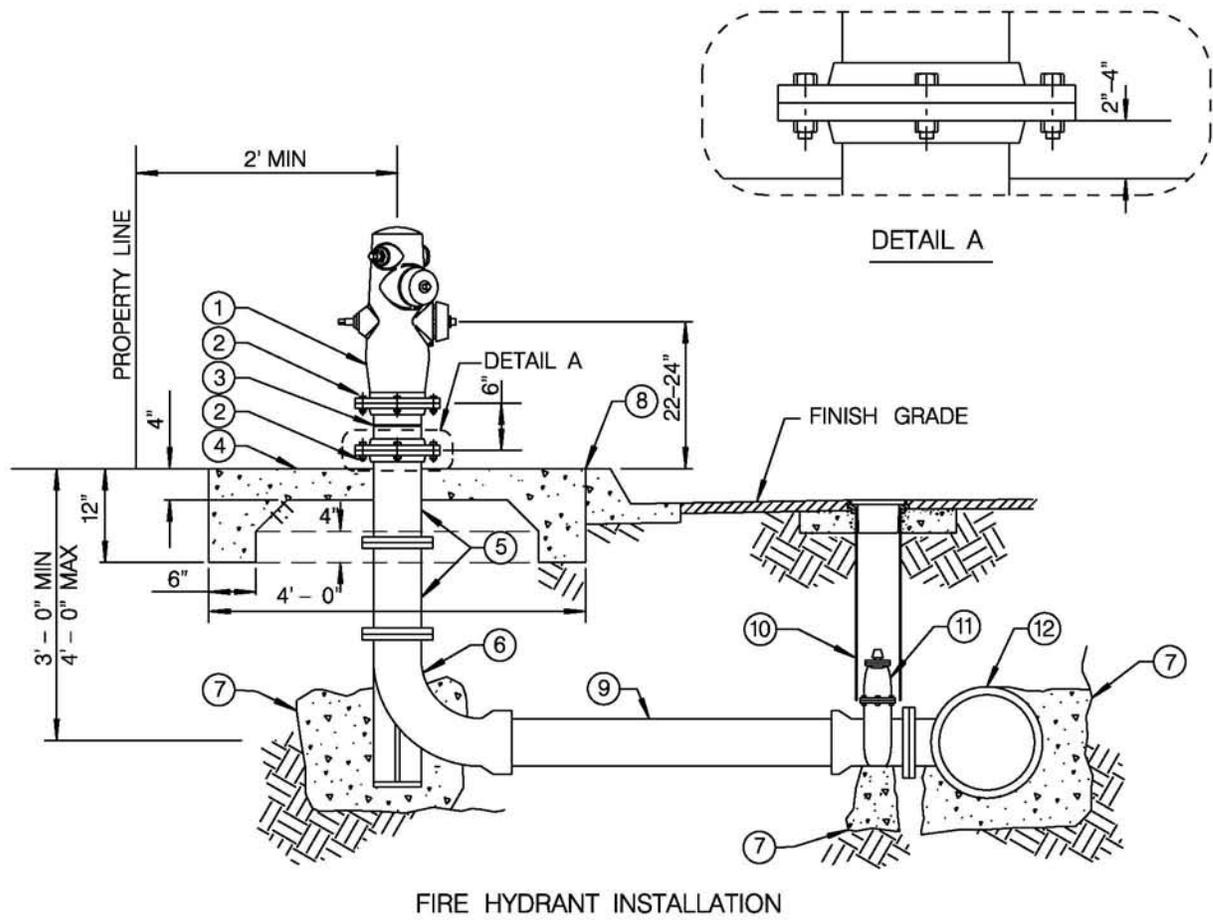
CITY OF SAN DIEGO - STANDARD DRAWING

CURB RAMP - TYPE D

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

H. Hadli 1/31/2012
COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER **SDG-136**

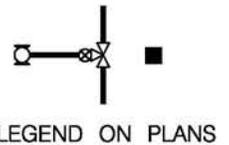


FIRE HYDRANT INSTALLATION

ITEM NO.	DESCRIPTION	ITEM NO.	DESCRIPTION
1	6" WET BARREL FIRE HYDRANT	5	6" CAST IRON EXTENSION NON-GROOVED SPOOL - AS REQUIRED (F, F)
2	.75" X 3.5" MIN HEX HEAD BREAKAWAY (SHEAR) BOLTS AND NUTS (ASTM A307) SHALL BE 3/4" NC THREAD. HEX HEAD ON TOP OF FLANGES (ALL)	6	6" LONG RADIUS DI BASE ELBOW (F, PO / MJ)
3	6" CAST IRON BREAKAWAY SPOOL WITH 0.25"-V (SINGLE OR DOUBLE) BREAK OFF GROOVE	7	CONCRETE THRUST BLOCK
4	4' X 4' X 4" THICK CONCRETE PAD WITH 6" X 12" DEEP THICKENED EDGE AROUND PERIMETER OF CONCRETE PAD	8	COLD JOINT STRIP
		9	PIPE - 6" C-900 PVC
		10	GATE WELL WITH CAP
		11	6" GATE VALVE (MJ / PO, F)
		12	TEE - SIZE X 6" (MJ, MJ, F)

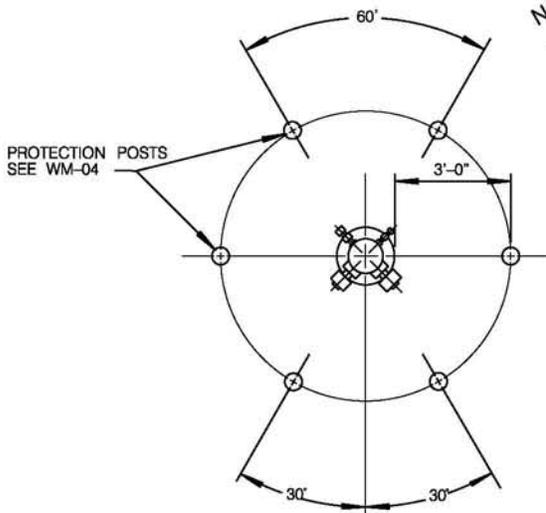
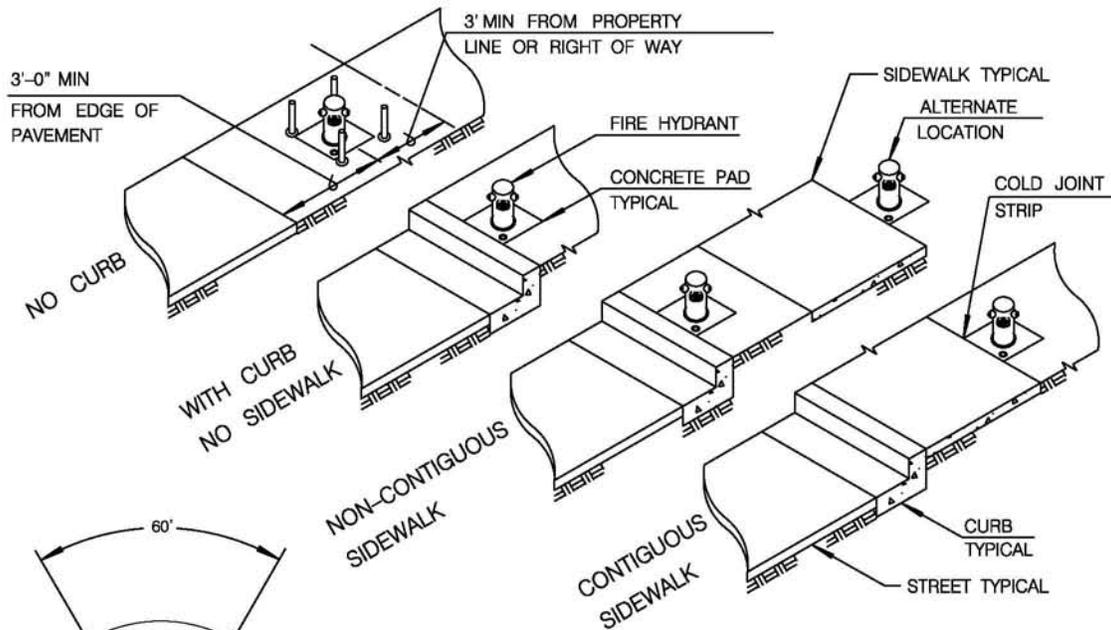
NOTES:

- NUMBER OF OUTLETS SHALL BE AS SHOWN ON THE PLANS.
- CONNECT TO BASE OF THE HYDRANT WITH SHEAR BOLTS INSTALLED WITH HEX HEAD ON TOP OF THE FLANGE. (31/64" DIAMETER HOLE 2" DEEP IN BOLTS, GALVANIZED AFTER BORING)



SHEET 1 OF 3

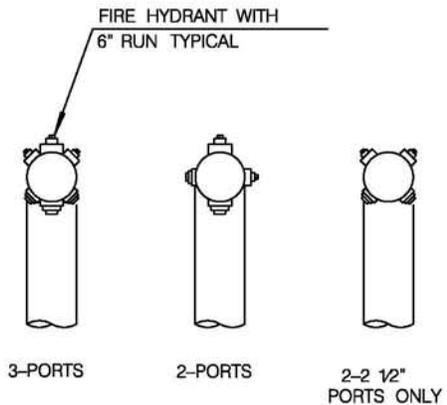
REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO - STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL	KA	J. NAGELVOORT	01/12		<i>J. Nagelvoort</i>
				FIRE HYDRANT INSTALLATION	COORDINATOR R.C.E. 65271 DATE
					DRAWING NUMBER SDW-104



NOTE:

WHEN REQUIRED, NUMBER OF POSTS AND LOCATION TO BE SHOWN ON THE PLANS.

PROTECTION POSTS



PORT ORIENTATION

FIRE HYDRANT LOCATIONS AND PORT ORIENTATION

NOTES:

- 1) LOCATE FIRE HYDRANT AS SHOWN ABOVE OR AS DIRECTED BY THE ENGINEER.
- 2) FIRE HYDRANTS SHALL BE INSTALLED WITH THE LARGEST PORT PERPENDICULAR TO THE STREET.
- 3) IF THE CONCRETE SLAB IS TO BE INSTALLED ADJACENT TO A CONCRETE CURB OR SIDEWALK, A COLD JOINT STRIP SHALL BE INSTALLED.
- 4) CONCRETE APRON SHALL BE REQUIRED WHERE THE FIRE HYDRANT IS INSTALLED IN AN UNPAVED LOCATION. THE APRON SHALL BE 4" THICK 520-C-2500 CONCRETE.
- 5) WHEN DISTANCE FROM THE FIRE HYDRANT TO THE TOP OR TOE OF THE SLOPE OR WALLS IS LESS THAN 2', SPECIAL HYDRANT INSTALLATION DETAIL SHALL BE SHOWN ON THE PLANS.
- 6) THE DISTANCE FROM THE FACE OF THE CURB TO THE CENTERLINE OF THE FIRE HYDRANT SHALL BE 2 1/2' MINIMUM.

SHEET 2 OF 3

REVISION	BY	APPROVED	DATE
ORIGINAL	KA	J. NAGELVOORT	01/12

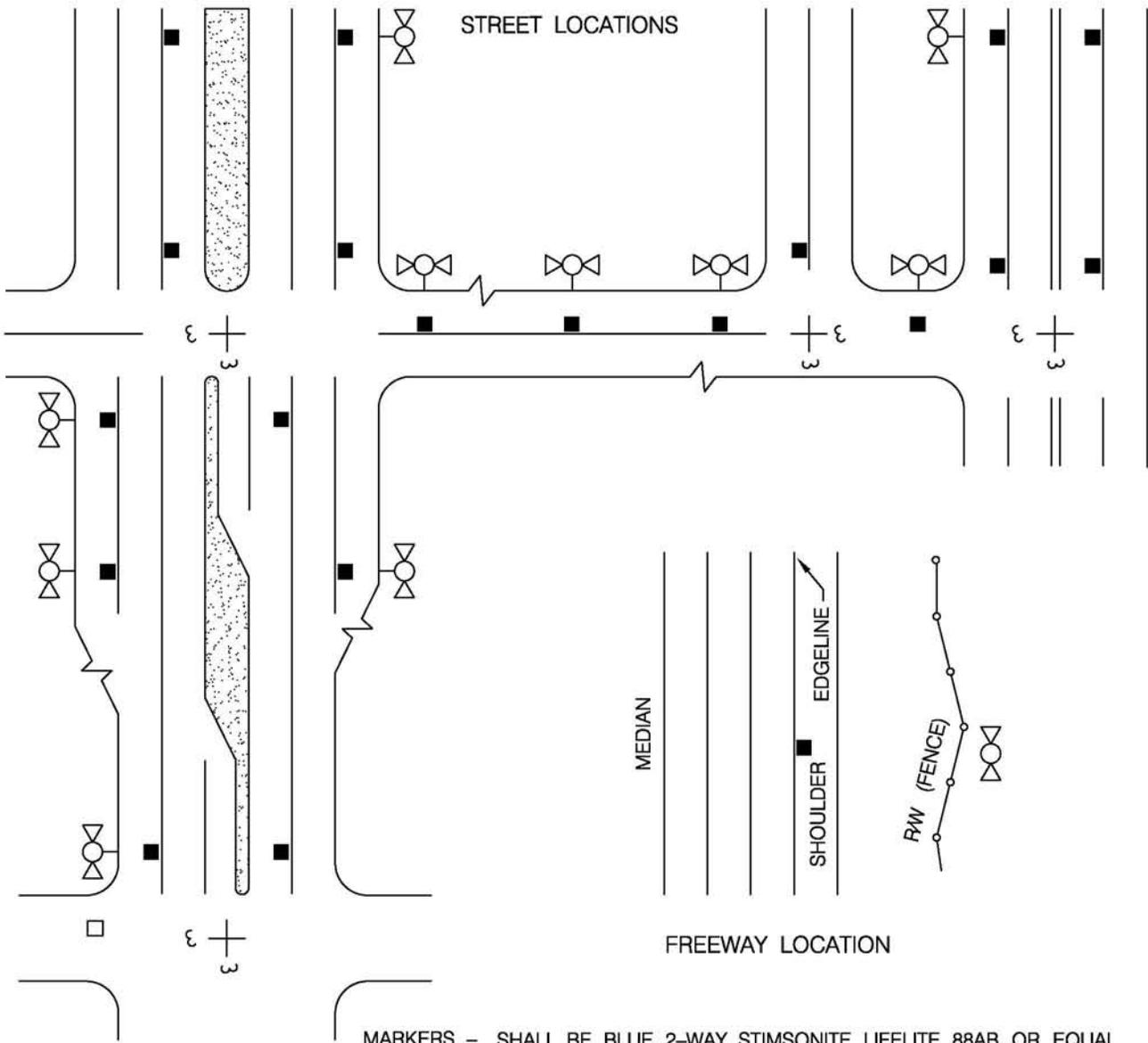
CITY OF SAN DIEGO - STANDARD DRAWING

**FIRE HYDRANT
INSTALLATION**

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

H. Hadji 1/31/2012
COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER **SDW-104**

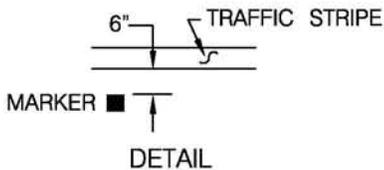


MARKERS - SHALL BE BLUE 2-WAY STIMSONITE LIFELITE 88AB OR EQUAL.

ADHESIVE - AN AMPLE AMOUNT OF 2 (A&B) EPOXY OR EQUAL.

SURFACES - CLEAN AND DRY TO INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.

INSTALL MARKERS WITH REFLECTIVE SURFACES FACING ONCOMING VEHICLES AND OFFSET 2" FROM LANE LINES TOWARD FIRE HYDRANT.



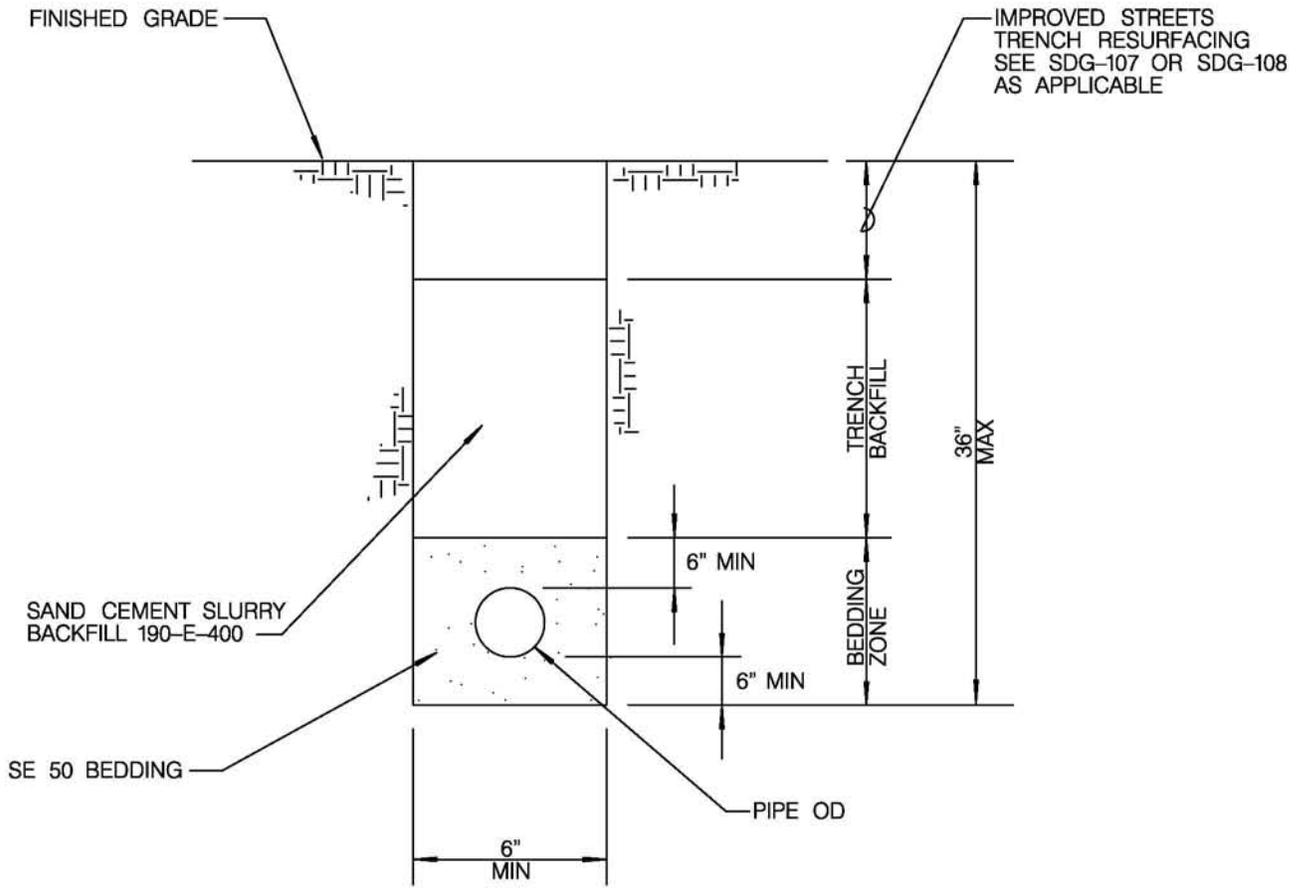
FIRE HYDRANT MARKERS

NOTES

1. FIRE DEPARTMENT WILL PROVIDE LOCATION(S) FOR ALL MARKERS IN PRD'S COMMERCIAL LOTS AND OTHER AREAS OUTSIDE OF PUBLIC RIGHT OF WAY.
2. MARKERS SHALL BE INSTALLED AT THE NEW AND RELOCATED HYDRANTS AND WITHIN ALL RESURFACING PROJECTS.
3. FOR STREETS WITHOUT LANE LINES OR STREETS WITH RAISED PAVEMENT MARKERS AND NO PAINTED LANE LINES, INSTALL MARKERS 6" FROM CENTERLINE OR EXISTING MARKERS.

SHEET 3 OF 3

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO - STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL	KA	J. NAGELVOORT	01/12		<i>J. Nagelvoort</i>
				FIRE HYDRANT INSTALLATION	COORDINATOR R.C.E. 65271 DATE
					DRAWING NUMBER SDW-104



TRENCH SECTION

NOTES:

1. THE PROPOSED WATER SERVICE SHALL BE SECURED IN CENTER OF THE TRENCH.
2. SAND CEMENT SLURRY BACKFILL SHALL BE THOROUGHLY CONSOLIDATED TO ENCASE CONDUITS. TAMPERS OR VIBRATORS SHALL BE USED.
3. EXISTING PAVEMENT WILL NOT REQUIRE SAW CUTTING WHEN USING ROCKWHEEL FOR EXCAVATION EXCEPT WHEN THE EXISTING PAVEMENT IS CONCRETE AND TRENCH FINISH IS CONCRETE.
4. CUTS SHALL BE PARALLEL OR PERPENDICULAR TO STREET CENTERLINE, WHEN PRACTICAL.
5. IN MAJOR OR PRIME ARTERIAL STREETS, ON APPROVAL SET ACCELERATING ADMIXTURE, SUCH AS CALCIUM CHLORIDE, MAY BE USED ONLY WITH PRIOR APPROVAL OF THE ENGINEER OTHERWISE THE CONTRACTOR SHALL PROTECT THE TRENCH WITH THE APPROVAL OF THE ENGINEER.
6. 6" METAL TAPE SHALL BE INSTALLED ABOVE PIPE 4" BELOW TRENCH CAP AND 12" BELOW FINISH GRADE IN UNIMPROVED STREETS.

REVISION	BY	APPROVED	DATE
ORIGINAL	KA	J. NAGELVOORT	01/12

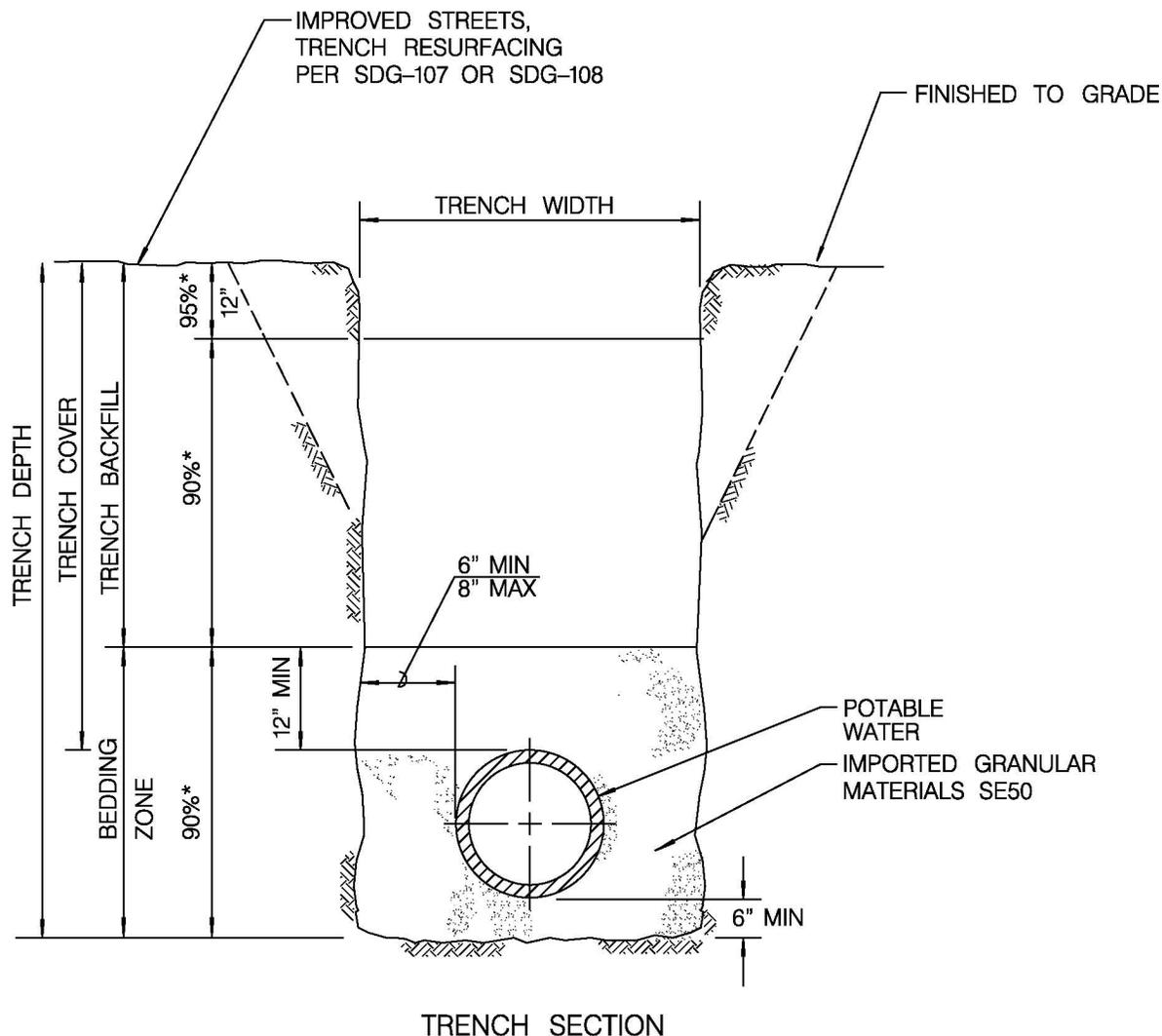
CITY OF SAN DIEGO - STANDARD DRAWING

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

H. Hadli 1/31/2012
COORDINATOR R.C.E. 65271 DATE

**NARROW TRENCH FOR
1" & 2" WATER SERVICES**

DRAWING NUMBER **SDW-107**



NOTES:

1. (*) INDICATES MINIMUM RELATIVE COMPACTION.
2. MINIMUM COVER: 3' FOR DISTRIBUTION MAINS; 5' FOR TRANSMISSION MAINS.
3. 6" METAL TAPE SHALL BE INSTALLED ABOVE PIPE: 4" BELOW TRENCH CAP AND 12" BELOW FINISH GRADE IN UNIMPROVED STREETS.
4. 1' SAND CUSHION OR A 6" MINIMUM SAND CUSHION WITH 1" NEOPRENE PAD SHALL BE PLACED FOR ALL CROSSINGS UTILITIES WHEN VERTICAL CLEARANCE IS 1' OR LESS. THE NEOPRENE PAD SHALL BE PLACED ON THE MOST FRAGILE UTILITY.
5. FOR MAINS LARGER THAN 16", TRENCH WIDTH SHALL BE AS SHOWN ON THE PLANS.

REVISION	BY	APPROVED	DATE
ORIGINAL*	KA	J. NAGELVOORT	01/12

CITY OF SAN DIEGO - STANDARD DRAWING

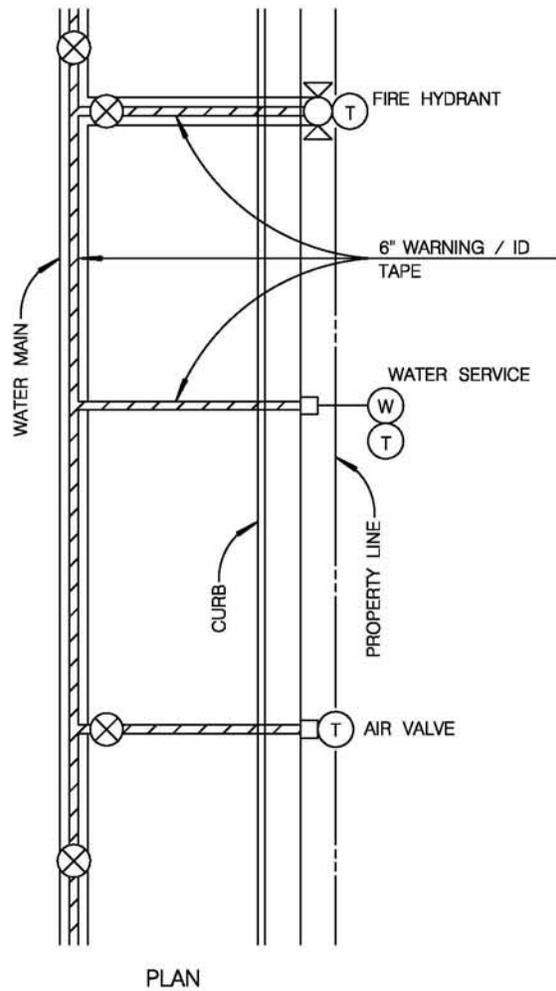
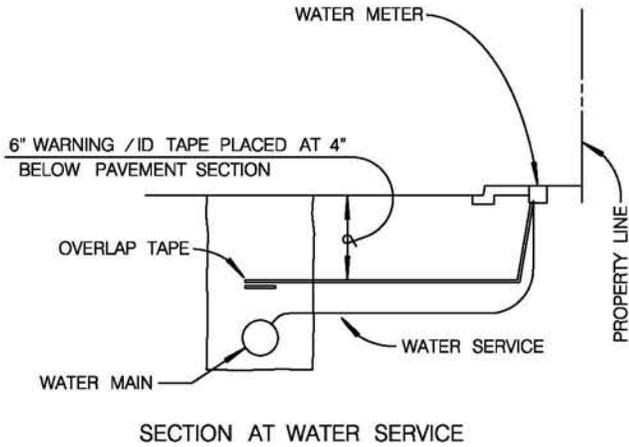
PIPE BEDDING AND TRENCH BACKFILL FOR POTABLE WATER MAINS

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

H. Hadli 1/31/2012

COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER **SDW-110**



NOTES:

- 1) 6" WARNING / IDENTIFICATION TAPE SHALL BE INSTALLED ABOVE THE PIPE AS SPECIFIED AND RUN CONTINUOUSLY ALONG THE ENTIRE LENGTH OF THE PIPE AND ALL RELATED APPURTENANCES.
- 2) ELECTRICALLY BOND SERVICE TAPE AND MAIN TAPE TOGETHER. TAPE SHALL EXTEND WITHIN METER BOX ITSELF TO ALLOW MARKOUT BY CONTINUITY TESTER.

REVISION	BY	APPROVED	DATE
ORIGINAL*	KA	J. NAGELVOORT	01/12

CITY OF SAN DIEGO – STANDARD DRAWING

**WARNING / IDENTIFICATION
TAPE INSTALLATION**

RECOMMENDED BY THE CITY OF SAN DIEGO
STANDARDS COMMITTEE

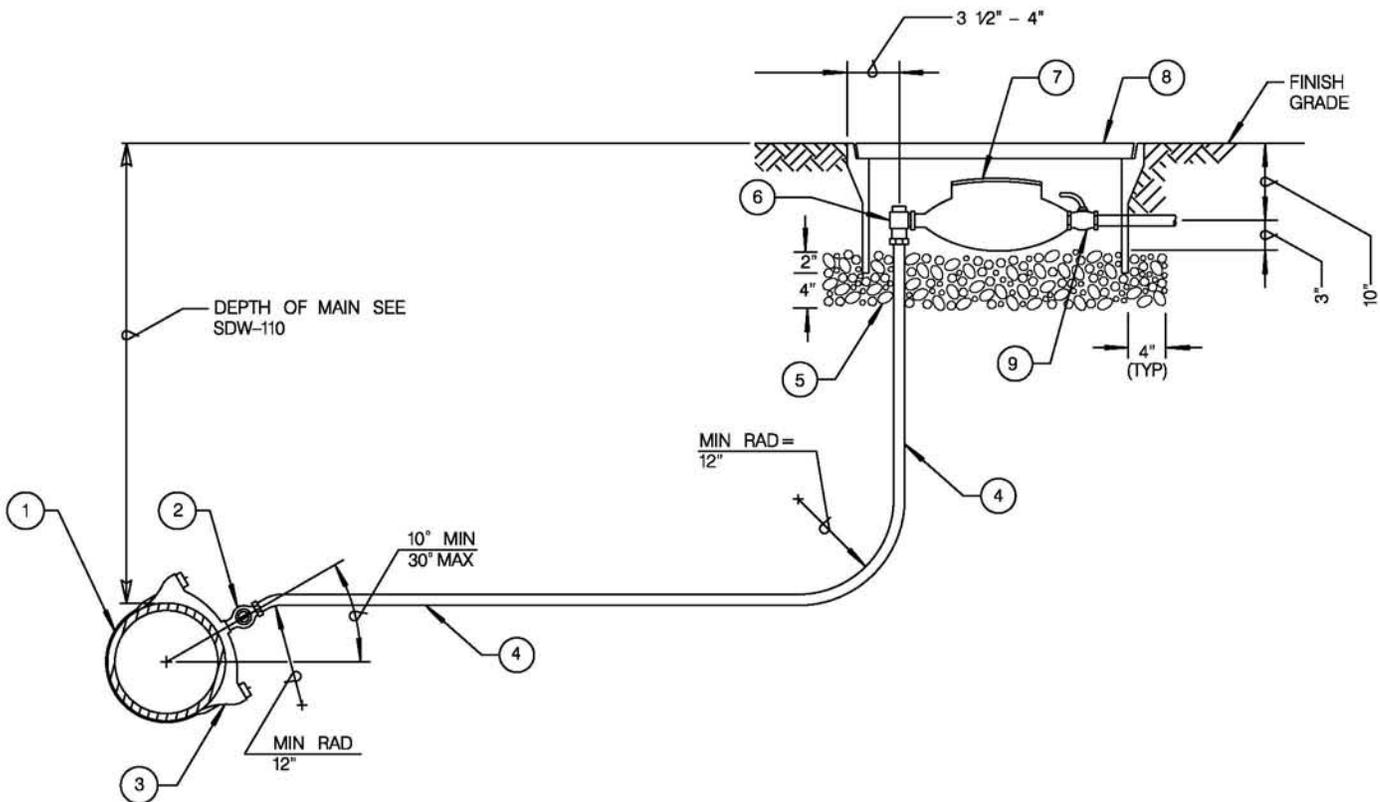
H. Hadli

1/31/2012

COORDINATOR R.C.E. 65271 DATE

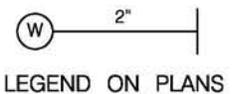
DRAWING
NUMBER

SDW-148



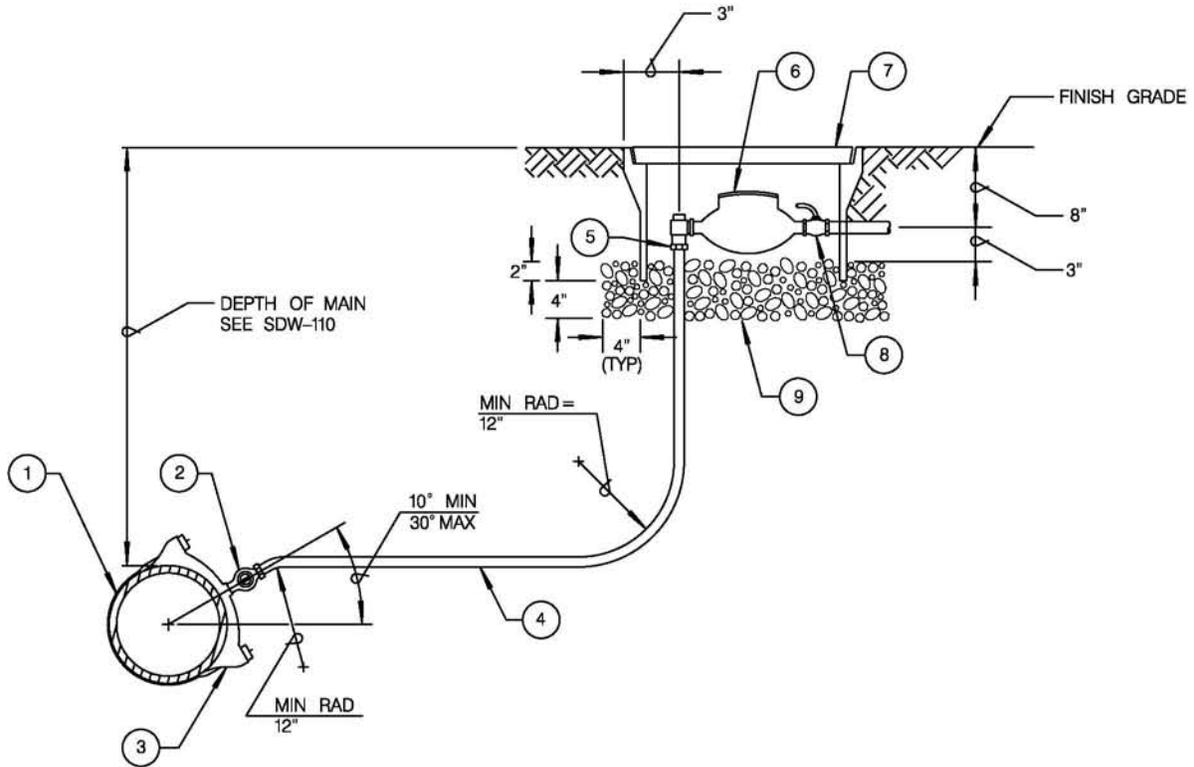
NOTES:

- 1) INSTALL CORPORATION STOP WITH KEY IN THE SIDE POSITION
- 2) SET TOP OF METER BOX FLUSH WITH SIDEWALK, CURB, OR FINISH GRADE
- 3) LOCATE METER BOX
- 4) INSTALL WARNING / IDENTIFICATION TAPE
- 5) SILVER SOLDER JOINTS SHALL NOT BE USED
- 6) ON STEEL MAINS USE WELD ON COUPLINGS, ON DUCTILE IRON MAINS USE DUCTILE IRON SERVICE SADDLES (INSULATING BUSHINGS ARE REQUIRED)
- 7) TOP TAPS NOT PERMITTED. ANY GLUE JOINT SHALL BE BEVELED PRIOR TO ASSEMBLY



ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
1	WATER MAIN	6	2" BRONZE ANGLE METER STOP WITH LOCKWING
2	2" BRONZE CORPORATION STOP	7	WATER METER FURNISHED AND INSTALLED BY THE CITY
3	SIZE x 2" BRONZE SERVICE SADDLE DOUBLE STRAP	8	METER BOX WITH LID, #6: 35"x 21"
4	2" x REQUIRED LENGTH COPPER PIPE TYPE "K" SOFT/RIGID	9	CUSTOMER SHUT-OFF VALVE (LOCKABLE)
5	3/8" ROCK, 4" TO 6" DEEP		

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO - STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE
ORIGINAL*	KA	J. NAGELVOORT	01/12		
2" WATER SERVICE INSTALLATION				 COORDINATOR R.C.E. 65271 1/31/2012 DATE	
				DRAWING NUMBER SDW-149	



NOTES:

- 1) INSTALL CORPORATION STOP WITH KEY IN THE SIDE POSITION
- 2) SET TOP OF METER BOX FLUSH WITH SIDEWALK, CURB, OR FINISH GRADE
- 3) LOCATE METER BOX
- 4) INSTALL WARNING / IDENTIFICATION TAPE
- 5) SILVER SOLDER JOINTS SHALL NOT BE USED
- 6) ON STEEL MAINS USE WELD ON COUPLINGS, ON DUCTILE IRON MAINS USE DUCTILE IRON SERVICE SADDLES (INSULATING BUSHINGS ARE REQUIRED)
- 7) BRONZE PIPE SADDLES ARE REQUIRED FOR ALL TAPS INTO POLYVINYL CHLORIDE (PVC) PIPE. TOP TAPS ARE NOT PERMITTED.



LEGEND ON PLANS

ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
1	WATER MAIN	6	WATER METER FURNISHED & INSTALLED BY THE CITY
2	1" BRONZE CORPORATION STOP	7	METER BOX WITH LID, #37: 28" x 18"
3	SIZE x 1" SERVICE SADDLE	8	CUSTOMER SHUT-OFF VALVE (LOCKABLE) FURNISHED AND INSTALLED BY THE CITY
4	USE COPPER TUBING TYPE (K) SOFT FOR 1" SERVICES ONLY. NO INTERMEDIATE JOINTS PERMITTED WITHIN THE FIRST 60' FROM THE MAIN FOR LENGTHS LONGER THAN 60 FEET USE FLARE JOINT UNION OR LOK-PAC FITTINGS WITH LOCKING CLAMP AND STAINLESS STEEL BOLT ONLY. NO SWEAT JOINTS ARE ALLOWED	9	3/8" ROCK, 4" TO 6" DEEP
5	BRONZE ANGLE METER STOP WITH LOCKWING DEVICE AND METER COUPLING ATTACHED. "FURNISH AND INSTALL BRONZE PROPERTY VALVE. USE SPACER FOR METER"		

REVISION	BY	APPROVED	DATE
ORIGINAL*	KA	J. NAGELVOORT	01/12

CITY OF SAN DIEGO - STANDARD DRAWING

1" WATER SERVICE INSTALLATION

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

H. Hadli 1/31/2012

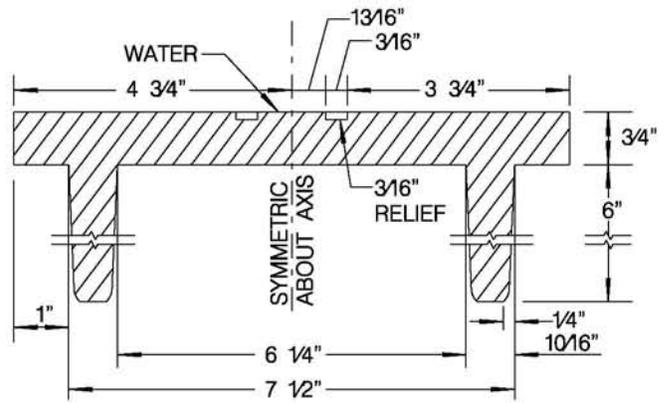
COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER **SDW-150**



POTABLE
WATER

GATE WELL LID



CAST IRON VALVE WELL CAP DETAIL

COLOR	GATE WELL AND LIDS USED FOR:
RED	NORMALLY CLOSED SYSTEM VALVES (NCV)
WHITE	RESILIENT WEDGE GATE VALVES
YELLOW	BUTTERFLY VALVES

INSIDE GATE WELL LID PAINTED IDENTIFICATION MARKING

VALVE CONDITION	BUTTERLY VALVE	GATE VALVE
PERMANENTLY CLOSED	RED	RED
TEMPORARILY CLOSED	YELLOW WRED DOT	WHITE WRED DOT
PERMANENTLY OPEN	YELLOW	WHITE

GATE WELL LID TOP COLOR & CONDITION

NOTES:

- GATE WELL LIDS SHALL BE CAST IRON WITH "CITY OF SAN DIEGO" AND THE WORD "WATER" FOR USE WITH POTABLE WATER SYSTEMS AND "RECYCLED" FOR USE WITH RECYCLED WATER SYSTEMS. LIDS SHALL INCLUDE A 1" LIFTING SLOT

REVISION	BY	APPROVED	DATE
ORIGINAL*	KA	J. NAGELVOORT	01/12

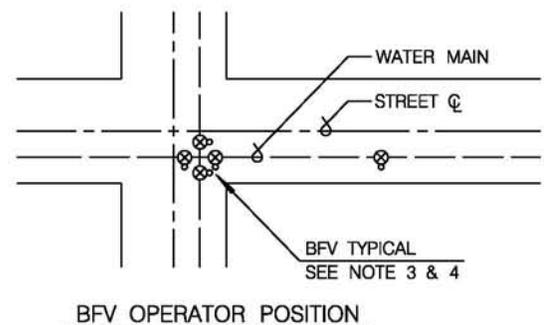
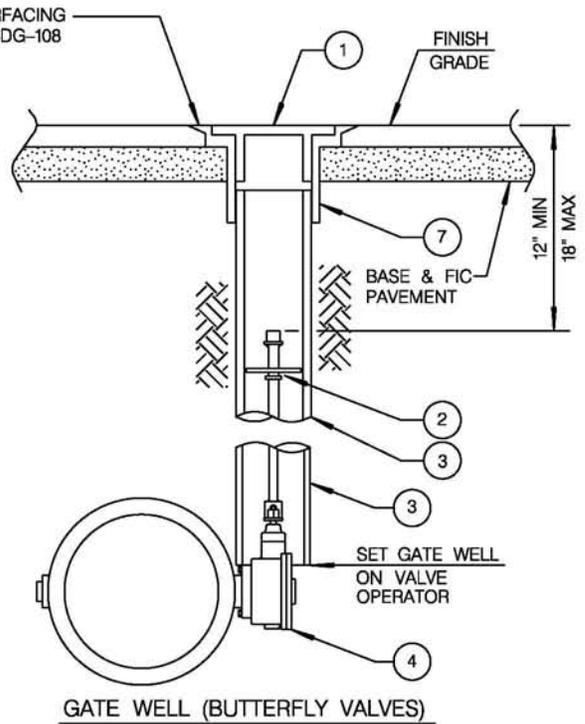
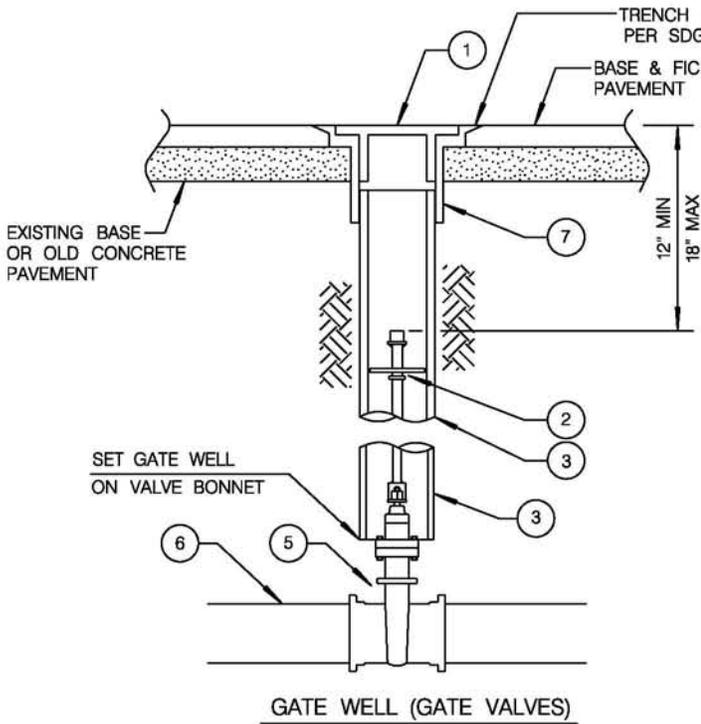
CITY OF SAN DIEGO - STANDARD DRAWING

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

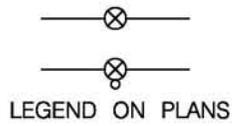
H. Hadli 1/31/2012
COORDINATOR R.C.E. 65271 DATE

GATE WELL IDENTIFICATION

DRAWING NUMBER **SDW-152**

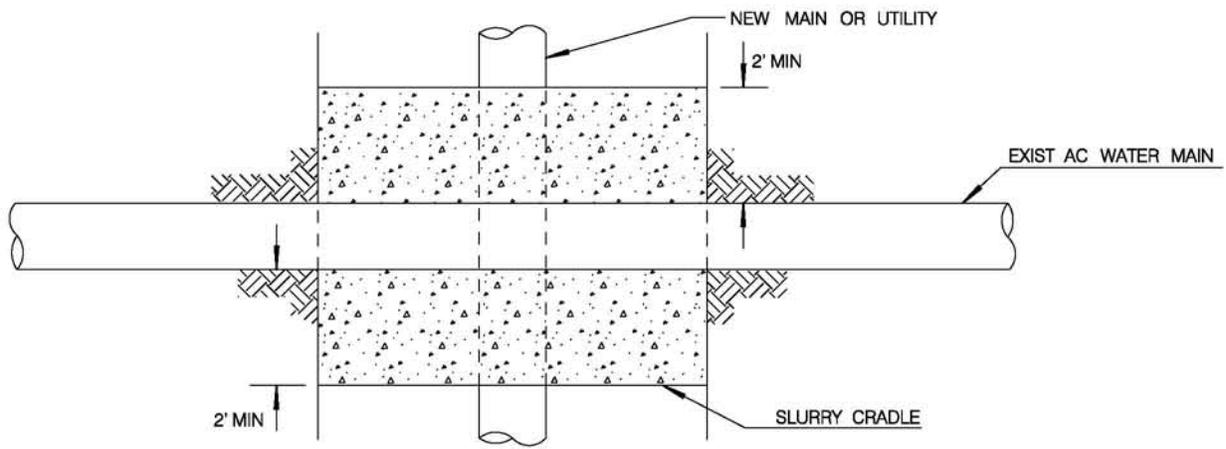


- NOTES:
- 1) VALVES DEEPER THAN 6' REQUIRE A VALVE STEM EXTENSION
 - 2) EXTENSION STEMS SHALL NOT BE ATTACHED/BOLTED TO OPERATING NUT
 - 3) GATE WELL AND CAP SHALL BE SET SO THAT NO MORE THAN TWO 1" ADJUSTMENT RINGS ARE USED
 - 4) BFV OPERATORS TO BE LOCATED TO THE CURBLINE SIDE OF WATER MAIN
 - 5) BFV'S INSTALLED AT CROSSES OR TEES REQUIRE A FLANGED DUCTILE IRON SPOOL TO BE INSTALLED BETWEEN THE FITTING AND VALVE IN ACCORDANCE WITH THE SPECIFICATIONS
 - 6) GATE WELLS AND CAPS SHALL BE IDENTIFIED
 - 7) FOR INLINE VALVE ANCHOR BLOCK INSTALLATION
 - 8) VALVE WELL FRAME SHALL BE SET TO SLOPE OF STREET

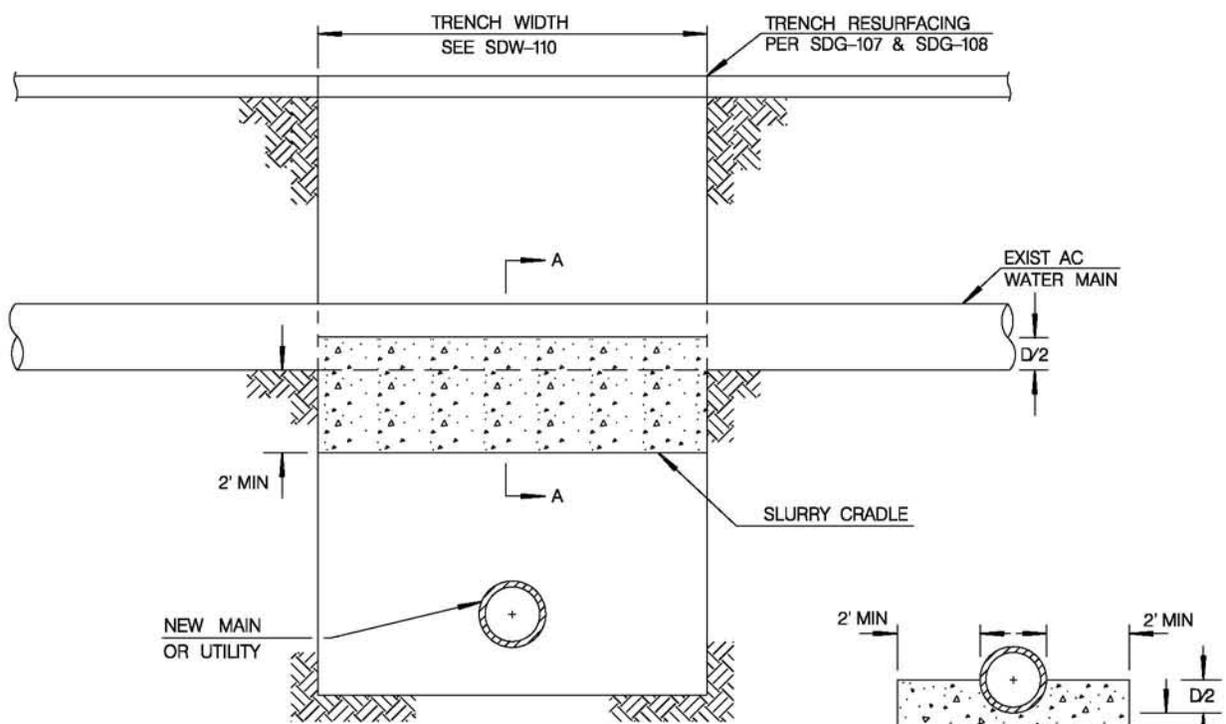


ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
①	GATE WELL WITH CAP SEE NOTE 6	⑤	RESILIENT WEDGE GATE VALVE
②	VALVE STEM EXTENSION SEE NOTES 1 & 2	⑥	WATER MAIN
③	8" OD x 1/8" STEEL CASING x REQUIRED LENGTH GATE WELL SEE NOTE 6	⑦	1/8" THICK, 8 5/8" OD STEEL PIPE
④	BUTTERFLY VALVE		

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO - STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE	
ORIGINAL*	KA	J. NAGELVOORT	01/12		<i>H. Hadli</i>	1/31/2012
				GATE WELL CAP & CAN INSTALLATION FOR VALVES 4" AND LARGER	COORDINATOR R.C.E. 65271	DATE
					DRAWING NUMBER	SDW-153



PLAN



ELEVATION

SECTION A-A

- NOTES:
- 1) SLURRY SHALL BE CONTROLLED LOW STRENGTH MATERIAL CLSM (100-E-100)
 - 2) SLURRY SHALL BE PLACED ON FIRMLY COMPACTED BACKFILL

REVISION	BY	APPROVED	DATE
ORIGINAL	KA	J. NAGELVOORT	01/12

CITY OF SAN DIEGO - STANDARD DRAWING

**PIPE SUPPORT FOR UNDERCUT
AC WATER MAIN**

RECOMMENDED BY THE CITY OF SAN DIEGO
STANDARDS COMMITTEE

H. Hadli 1/31/2012

COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER **SDW-162**

City of San Diego

CONTRACTOR'S NAME: ORTIZ CORPORATION
ADDRESS: 2000 MC KINLEY AVENUE, NATIONAL CITY, CA 91950
TELEPHONE NO.: 619-434-7925 FAX NO.: 619-434-7931
CITY CONTACT: Damian Singleton 1200 Third Avenue, Ste 200 M.S. 56P, San Diego, CA 92101
Email: DSingleton@sandiego.gov. Ph (619) 236-5272, Fax (619) 236-5904
BShakiba/NB/LJI

CONTRACT DOCUMENTS

FOR

SEWER AND WATER GROUP 723

VOLUME 2 OF 2



BID NO.:	K-13-5265-DBB-3
SAP NO. (WBS/IO/CC):	B-00462/B-00050
CLIENT DEPARTMENT:	2011/2013
COUNCIL DISTRICT:	2
PROJECT TYPE:	JA/KB

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.

THIS BIDDING DOCUMENT TO BE SUBMITTED IN ITS ENTIRETY
REFER TO INVITATION TO BIDS FOR TIME, DATE, AND LOCATION

TABLE OF CONTENTS

Volume 2 - Bidding Documents

The following forms must be completed in their entirety and submitted with the Bid. Include the form(s) even if the information does not apply. Where the information does not apply write in N/A. Failure to include any of the forms may cause the Bid to be deemed **non-responsive**. If you are uncertain or have any questions about any required information, contact the City no later than 14 days prior to Bid due date.

<u>DESCRIPTION</u>	<u>PAGE NUMBER</u>
1. Bid/Proposal.....	3 - 5
2. Bid Bond.....	6
3. Non-Collusion Affidavit to be executed by Bidder and Submitted with Bid under 23 USC 112 and PCC 7106	7
4. Contractors Certification of Pending Actions	8
5. Equal Benefits Ordinance Certification of Compliance.....	9
6. Proposal (Bid).....	10-15
7. Form AA35 - List of Subcontractors	16
8. Form AA40 - Named Equipment/Material Supplier List	17

BIDDING DOCUMENTS

PROPOSAL

Bidder's General Information

To the City of San Diego:

Pursuant to "Invitation to 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.

IF A SOLE OWNER OR SOLE CONTRACTOR SIGN HERE:

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

IF A PARTNERSHIP, SIGN HERE:

- (1) Name under which business is conducted N/A
- (2) Name of each member of partnership [indicate character of each partner, general or special (limited)]:

BIDDING DOCUMENTS

(3) Signature (Note: Signature must be made by a general partner)

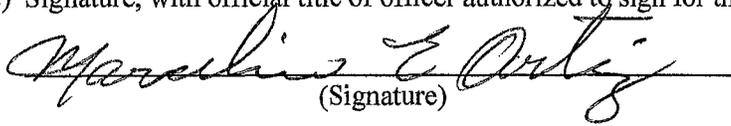
Full Name and Character of partner

(4) Place of Business (Street & Number) _____
(5) City and State _____ Zip Code _____
(6) Telephone No. _____ Facsimile No. _____

IF A CORPORATION, SIGN HERE:

(1) Name under which business is conducted ORTIZ CORPORATION

(2) Signature, with official title of officer authorized to sign for the corporation:


(Signature)

MARCELINO E. ORTIZ

(Printed Name)

PRESIDENT

(Title of Officer)

(Impress Corporate Seal Here)

(3) Incorporated under the laws of the State of CALIFORNIA
(4) Place of Business (Street & Number) 2000 MC KINLEY AVENUE
(5) City and State NATIONAL CITY, CA Zip Code 91950
(6) Telephone No. 619-434-7925 Facsimile No. 619-434-7931

THE FOLLOWING SECTIONS MUST BE FILLED IN BY ALL PROPOSERS:

In accordance with the "INVITATION TO BIDS", the bidder holds a California State Contractor's license for the following classification(s) to perform the work described in these specifications:

LICENSE CLASSIFICATION A

LICENSE NO. 602454 EXPIRES SEPTEMBER 30th, 2014

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

TAX IDENTIFICATION NUMBER (TIN): 99-0410000

E-Mail Address: Lucy@ortizcorporation.com / Jose@ortizcorporation.com

BIDDING DOCUMENTS

THIS PROPOSAL MUST BE NOTARIZED BELOW:

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

Signature Marcelino E. Ortiz Title PRESIDENT

SUBSCRIBED AND SWORN TO BEFORE ME, THIS 10th DAY OF SEPT, 2012.

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

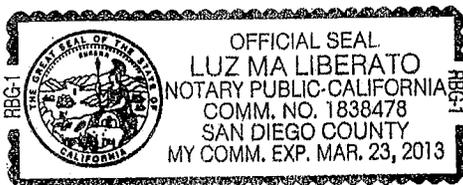
Luiz M. Ubeato

(NOTARIAL SEAL)

State of California
County of San Diego

Subscribed and sworn to (or affirmed) before me this 10th day of SEPT, 2012, by Marcelino E. Ortiz, proved to me on the basis of satisfactory evidence to be the person (s) who appeared before me.

Luiz M. Ubeato
Signature _____ (Seal).



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

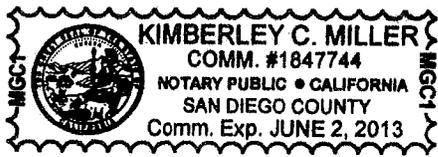
State of California

County of San Diego

On August 16, 2012 before me, Kimberely C. Miller, Notary Public
Date Here insert Name and Title of the Officer

personally appeared Sioux Munyon
Name(s) of Signer(s)

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



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

WITNESS my hand and official seal.

Signature: Kimberley C. Miller
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 this 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: _____ Signer's Name: _____

Corporate Officer — Title(s): _____ Corporate Officer — Title(s): _____

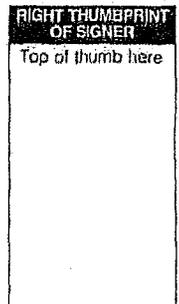
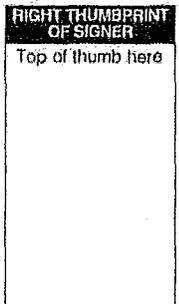
Individual Partner — Limited General Attorney in Fact Attorney in Fact

Trustee Trustee

Guardian or Conservator Guardian or Conservator

Other: _____ Other: _____

Signer Is Representing: _____ Signer Is Representing: _____



POWER OF ATTORNEY

INTERNATIONAL FIDELITY INSURANCE COMPANY ALLEGHENY CASUALTY COMPANY

ONE NEWARK CENTER, 20TH FLOOR NEWARK, NEW JERSEY 07102-5207

KNOW ALL MEN BY THESE PRESENTS: That INTERNATIONAL FIDELITY INSURANCE COMPANY, a corporation organized and existing under the laws of the State of New Jersey, and ALLEGHENY CASUALTY COMPANY, a corporation organized and existing under the laws of the State of Pennsylvania, having their principal office in the City of Newark, New Jersey, do hereby constitute and appoint

SIOUX MUNYON

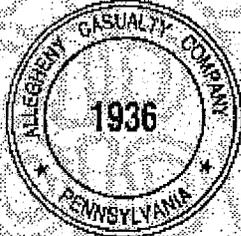
Lakeside, CA.

their 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; and the execution of such instrument(s) in pursuance of these presents, shall be as binding upon the said INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY, as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by their regularly elected officers at their principal offices.

This Power of Attorney is executed, and may be revoked, pursuant to and by authority of the By-Laws of INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY and is granted under, and by authority of the following resolution adopted by the Board of Directors of INTERNATIONAL FIDELITY INSURANCE COMPANY at a meeting duly held on the 20th day of July, 2010 and by the Board of Directors of ALLEGHENY CASUALTY COMPANY at a meeting duly held on the 15th day of August, 2000:

"RESOLVED, that (1) the President, Vice President, or Secretary of the Corporation shall have the power to appoint and to revoke the appointments of Attorneys-in-Fact or agents with power and authority as defined or limited in their respective powers of attorney, and to execute on behalf of the Corporation and affix the Corporation's seal thereto, bonds, undertakings, recognizances, contracts of indemnity and other written obligations in the nature thereof or related thereto; and (2) any such Officers of the Corporation may appoint and revoke the appointments of joint-control custodians, agents for acceptance of process, and Attorneys-in-fact with authority to execute waivers and consents on behalf of the Corporation; and (3) the signature of any such Officer of the Corporation and the Corporation's seal may be affixed by facsimile to any power of attorney or certification given for the execution of any bond, undertaking, recognizance, contract of indemnity or other written obligation in the nature thereof or related thereto, such signature and seals when so used whether heretofore or hereafter, being hereby adopted by the Corporation as the original signature of such officer and the original seal of the Corporation, to be valid and binding upon the Corporation with the same force and effect as though manually affixed."

IN WITNESS WHEREOF, INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY have each executed and attested these presents on this 12th day of March, 2012.



STATE OF NEW JERSEY
County of Essex

ROBERT W. MINSTER
Executive Vice President/Chief Operating Officer
(International Fidelity Insurance Company)
and President (Allegheny Casualty Company)

On this 12th day of March 2012, before me came the individual who executed the preceding instrument to me personally known, and, being by me duly sworn, said he is the therein described and authorized officer of INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY, that the seals affixed to said instrument are the Corporate Seals of said Companies; that the said Corporate Seals and his signature were duly affixed by order of the Boards of Directors of said Companies.

IN TESTIMONY WHEREOF, I have hereunto set my hand affixed my Official Seal at the City of Newark, New Jersey the day and year first above written.



A NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Mar. 27, 2014

CERTIFICATION

I, the undersigned officer of INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Sections of the By-Laws of said Companies as set forth in said Power of Attorney, with the originals on file in the home office of said companies, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 16TH day of August, 2012

MARIA BRANCO, Assistant Secretary

BIDDING DOCUMENTS

NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID UNDER 23 USC 112 AND PCC 7106

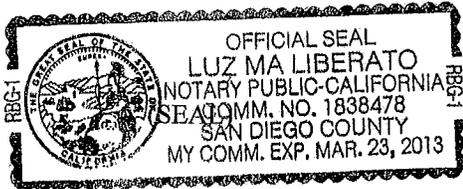
State of California)
County of SAN DIEGO) ss.

MARCELINO E. ORTIZ, being first duly sworn, deposes and says that he is PRESIDENT of 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.

Signed: [Signature]
Title: PRESIDENT

Subscribed and sworn to before me this 10th day of SEPT, 2012
[Signature]
Notary Public

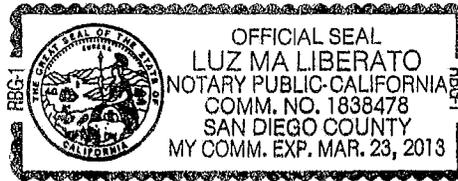
SEE JURAT ATTACHED.



JURAT

State of California
County of San Diego

Subscribed and sworn to (or affirmed) before me this 10th day of
SEPT, 2012, by Marcelino E. Ortiz, proved to me
on the basis of satisfactory evidence to be the person (s) who
appeared before me.



Signature LUZ M. LIBERATO (Seal)

BIDDING DOCUMENTS

PROPOSAL (BID)

The Bidder agrees to the construction of **SEWER AND WATER GROUP 723**, for the City of San Diego, in accordance with these contract documents for the prices listed below. The Bidder guarantees the Contract Price for a period of 120 days (90 days for federally funded contracts and contracts valued at \$500,000 or less) from the date of Bid opening to Award of the Contract. 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 e.g., bond and insurance.

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
BASE BID							
1	1	LS	237110	2-4.1	Bonds (Payment and Performance)	 	\$ 15,000.00
2	1	EA	237110	3-3.2.2	Certified Payroll	\$ 150.00	\$ 150.00
3	1	LS	238990	7-9.1.1	Video Recording of Pre-existing Conditions	 	\$ 1,100.00
4	1	LS	541330	7-10.2.7	Traffic Control Design	 	\$ 4,850.00
5	1	LS	237310	7-10.2.7	Traffic Control	 	\$ 8,200.00
6	1	LS	237310	7-10.2.7	Flashing Arrow Boards	 	\$ 1,800.00
7	1	AL	237310	7-10.5.4	Portable Changeable Message Signs (PCMS) – Type I	 	\$5,000.00
8	1	LS	237110	9-3.4.1	Mobilization	 	\$ 10,000.00
9	1	AL	237110	9-3.5	Field Orders – Type II	 	\$150,000.00
10	85	CY	237310	300-1.4	Additional Pavement Removal & Disposal	\$ 50.00	\$ 4,250.00
11	4,408	LF	237310	302-1.12	Cold Milling Asphalt Concrete Pavement	\$ 2.10	\$ 9,256.80
12	750	LF	237310	302-1.12	Cold Milling Additional PCC	\$ 5.25	\$ 3,937.50

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
13	114,119	SF	237310	302-4.5	Rubberized Emulsion-Aggregate Slurry Seal Type II and Striping	\$ 0.46	\$ 52,494.74
14	1	LS	237310	302-4.5.1	Bond for Slurry Seal	 	\$ 200.00
15	9,805	SF	237310	302-5.2.1	Pavement Restoration Adjacent to Trench	\$ 5.00	\$ 49,025.00
16	1,049	TON	237310	302-5.9	1-1/2 Inch Asphalt Concrete Overlay and Striping	\$ 93.00	\$ 97,557.00
17	4,518	SF	237310	302-6.8	Concrete Pavement	\$ 7.00	\$ 31,626.00
18	10,155	SY	237310	302-7.4	Pavement Fabric	\$ 2.50	\$ 25,387.50
19	15	EA	237310	303-5.9	Contractor Date Stamp and Impressions	\$ 160.00	\$ 2,400.00
20	2,400	SF	237310	303-5.9	Alley Apron	\$ 11.00	\$ 26,400.00
21	146	LF	237310	303-5.9	Additional Curb and Gutter	\$ 26.00	\$ 3,796.00
22	600	SF	237310	303-5.9	Additional Sidewalk Removal and Replacement	\$ 5.76	\$ 3,456.00
23	34	EA	237310	303-5.10.2	Curb Ramp Type C1 w/ Composite Detectable Warning Tiles	\$ 2,200.00	\$ 74,800.00
24	1	EA	237310	303-5.10.2	Curb Ramp Type C2 w/ Composite Detectable Warning Tiles	\$ 2,150.00	\$ 2,150.00
25	28	EA	237310	303-5.10.2	Curb Ramp Type D w/ Composite Detectable Warning Tiles	\$ 1,650.00	\$ 46,200.00
26	1	LS	237110	306-1.1.6	Trench Shoring	 	\$ 15,000.00
27	170	CY	237110	306-1.2.1.1	Additional Bedding	\$ 25.00	\$ 4,250.00
28	85	TON	237110	306-1.6	Imported Backfill	\$ 20.00	\$ 1,700.00

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
29	8,173	LF	237110	306-1.4.8.8	Televising Sewer Mains & Storm Drains For Acceptance	\$ 0.55	\$ 4,495.15
30	8,200	LF	237110	306-1.4.8.8	Cleaning & Televising of Existing Sewer Mains & Storm Drains	\$ 1.30	\$ 10,660.00
31	500	TON	237310	306-1.5.1	Temporary Resurfacing	\$ 81.00	\$ 40,500.00
32	1,638	LF	237110	306-1.6	8-Inch Water Main	\$ 60.00	\$ 98,280.00
33	3	EA	237110	306-1.6	6-Inch Fire Hydrant Assembly & Marker	\$ 5,500.00	\$ 16,500.00
34	1	EA	237110	306-1.6	Type A4 Cleanout Per City Standard Drawing D-9	\$ 5,000.00	\$ 5,000.00
35	8,173	LF	237110	306-1.6	8-Inch Sewer Main	\$ 58.00	\$ 474,034.00
36	86	EA	237110	306-1.7.1	4-Inch Sewer Lateral & Cleanout (Street)	\$ 1,400.00	\$ 120,400.00
37	14	EA	237110	306-1.7.1	6-Inch Sewer Lateral & Cleanout (Street)	\$ 1,450.00	\$ 20,300.00
38	68	EA	237110	306-1.7.1	4-Inch Sewer Lateral & Cleanout (Alley)	\$ 850.00	\$ 57,800.00
39	5	EA	237110	306-1.7.1	6-Inch Sewer Lateral & Cleanout (Alley)	\$ 895.00	\$ 4,475.00
40	10	EA	237110	306-1.7.2.5	4-Inch Sewer Lateral with Private Replumbing	\$ 6,000.00	\$ 60,000.00
41	1	EA	237110	306-1.7.2.5	4-Inch Trenchless Method For Private Replumbing	\$ 7,500.00	\$ 7,500.00
42	1	EA	237110	306-1.7.3.7	Private Pump System	\$ 17,600.00	\$ 17,600.00
43	1	EA	237110	306-1.7.3.7	Extended Warranty for Private Pumps	\$ 1,100.00	\$ 1,100.00
44	1	EA	237110	306-1.7.3.7	Pump Compensation	\$6,080	\$6,080
45	47	EA	237110	306-1.8.6	Manholes (4 x 3)	\$ 2,650.00	\$ 124,550.00

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
46	3	EA	237110	306-1.8.6	Connection to Existing Manhole and Rechanneling.	\$ 1,200.00	\$ 3,600.00
47	8	EA	237110	306-5.3	Abandon Existing Manhole Outside of Trench	\$ 1,200.00	\$ 9,600.00
48	4,523	LF	237110	306-5.3	Abandon and Fill Existing 6-Inch Sewer Main Outside of Trench Limit	\$ 3.40	\$ 15,378.20
49	1	LS	237110	306-5.3	Removal or Abandonment of Existing Water Facilities	 	\$ 2,000.00
50	1	EA	237110	306-13	Abandon Water Services (Stiff)	\$ 300.00	\$ 300.00
51	20	EA	237110	306-14.1	1-Inch Water Service	\$ 1,500.00	\$ 30,000.00
52	1	EA	237110	306-19	1-Inch Air & Vacuum Valve	\$ 4,200.00	\$ 4,200.00
53	1,640	LF	237110	700-1.2.1.3	High-lining Removed by Contractor	\$ 2.00	\$ 3,280.00
54	2,000	SF	237110	700-1.3.1.5	Pavement Restoration for City Forces Final Connection	\$ 12.00	\$ 24,000.00
55	1	LS	541330	801-9.4	Water Pollution Control Program Development	 	\$ 700.00
56	1	LS	237990	801-9.4	Water Pollution Control Program Implementation	 	\$ 2,500.00
57	1	LS	237110	804-2.2	Sewage Bypass and Pumping Plan (Diversion Plan)	 	\$ 5,000.00
58	5	DAYS	541330	807-1	Suspension of Work - Resources	\$ 150.00	\$ 750.00
59	8,056	LF	541330	807-1.2	Archeological and Native American Monitoring Program	\$ 6.00	\$ 48,336.00
60	2,007	LF	541330	807-1.3	Paleontological Monitoring Program	\$ 2.50	\$ 5,017.50
61	1	AL	541330	807-1.4	Archeological and Native American Mitigation and Curation – Type II	 	\$10,000.00

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
62	2,676	CY	541330	807-1.5	Paleontological Mitigation and Excavation	\$ 2.00	\$ 5,352.00
63	120	LF	237110	808-1.3	Handling and Disposal of Non-friable Asbestos Material	\$ 22.00	\$ 2,640.00
ESTIMATED TOTAL BASE BID:							\$ 1,891,914.39

TOTAL BID PRICE FOR BID (Items 1 through 63 inclusive) amount written in words:

ONE MILLION, EIGHT HUNDRED NINETY ONE THOUSAND, NINE HUNDRED FOURTEEN DOLLARS & THIRTY NINE CENTS*****

The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on this Bid form.

List the Addenda received and being acknowledged: None

If an addendum or addenda has been issued by the City and not noted as being received by the Bidder, the Bid shall be rejected as being **non-responsive**.

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

MARCELINO E. ORTIZ- PRESIDENT

AIDA BANGHART-VICE PRESIDENT

TERESA O. ORTIZ-SECRETARY

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

BIDDING DOCUMENTS

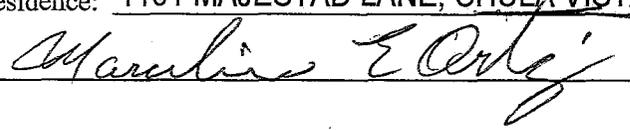
Bidder: MARCELINO E. ORTIZ for ORTIZ CORPORATION

Title: PRESIDENT

Business Address: 2000 MC KINLEY AVENUE, NATIONAL CITY, CA 91950

Place of Business: 2000 MC KINLEY AVENUE, NATIONAL CITY, CA 91950

Place of Residence: 1101 MAJESTAD LANE, CHULA VISTA, CA 91910

Signature: 

NOTES:

- A. The City shall determine the low Bid based on the Base Bid alone.
- B. Prices and notations shall be in ink or typewritten. All corrections (which have been initiated by the Bidder using erasures, strike out, line out, or "white-out") shall be typed or written in with ink adjacent thereto, and shall be initialed in ink by the person signing the bid proposal.
- C. Failure to initial all corrections made in the bidding documents shall cause the Bid to be rejected as **non-responsive** and ineligible for further consideration.
- D. Blank spaces must be filled in, using figures. Bidder's failure to submit a price for any Bid item that requires the Bidder to submit a price shall render the Bid **non-responsive** and shall be cause for its rejection.
- E. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.
- F. All extensions of the unit prices bid will be subject to verification by the City. In the case of inconsistency or conflict between the product of the Quantity x Unit Price and the Extension, the product shall govern.
- G. In the case of inconsistency or conflict, between the sums of the Extensions with the estimated total Bid, the sum of the Extensions shall govern.
- H. Bids shall not contain any recapitulation of the Work. Conditional Bids will be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.

BIDDING DOCUMENTS

LIST OF SUBCONTRACTORS

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done 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 shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, 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 that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR-DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>BRIAN F. SMITH & ASSOC</u> Address: <u>14010 POWAY RD STE A</u> City: <u>POWAY</u> State: <u>CA</u> Zip: <u>92064</u> Phone: <u>858-679-8218</u>	CONSTRUCTOR SERVICE	ARCHAEO/PALEO -LOGICAL & NA AMER MONITORS	\$53,243.00	SLBE	CITY OF SAN DIEGO	N/A
Name: <u>LSI ROAD MARKING</u> Address: <u>PO BOX 2436</u> City: <u>EL CAJON</u> State: <u>CA</u> Zip: <u>92021</u> Phone: <u>619-443-7755</u>	CONSTRUCTOR	STRIPING	\$2,800.00	SLBE	CITY OF SAN DIEGO	N/A
Name: <u>COASTAL PIPELINE SERVICES</u> Address: <u>PO BOX 235653</u> City: <u>ENCINITAS</u> State: <u>CA</u> Zip: <u>92023</u> Phone: <u>760-828-5174</u>	CONSTRUCTOR SERVICE	TELEVISIONING	\$13,106.50	SLBE	CITY OF SAN DIEGO	N/A

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

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification (except for OBE, SLBE and ELBE).

BIDDING DOCUMENTS

LIST OF SUBCONTRACTORS

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done 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 shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, 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 that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>GEO-CELL SOLUTIONS INC</u> Address: <u>2668 N.FORDHAM AV</u> City: <u>FRESNO</u> State: <u>CA</u> Zip: <u>93727</u> Phone: <u>626-357-3500</u>	CONSTRUCTOR	PIPE ABANDONMENT	\$6,600.00	OBE	N/A	N/A
Name: <u>HUDSON SAFE-T-LITE</u> Address: <u>777 GABLE WAY</u> City: <u>EL CAJON</u> State: <u>CA</u> Zip: <u>92022</u> Phone: <u>619-441-3644</u>	CONSTRUCTOR SERVICE	TRAFFIC CONTROL PLAN DESIGN & EQUIP	\$9,500.00	OBE	N/A	N/A
Name: <u>YBS CONCRETE INC</u> Address: <u>642 3RD AVE</u> City: <u>CHULA VISTA</u> State: <u>CA</u> Zip: <u>91910</u> Phone: <u>619-726-7317</u>	CONSTRUCTOR	CURB RAMPS	\$124,540.00	SLBE	CITY OF SAN DIEGO	N/A

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):

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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		

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State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

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BIDDING DOCUMENTS

LIST OF SUBCONTRACTORS

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NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Name: MC GRATH CONSULTING Address: PO BOX 20205 City: EL CAJON State: CA Zip: 92021 Phone: 619-250-2025	CONSTRUCTOR SERVICE	WATER POLLUTION CONTROL PLAN	\$580.00	ELBE	CITY OF SAN DIEGO	N/A
Name: JPS LEGAL VIDEO Address: 455 S. OAKHURST DR.#6 City: BEVERLY HILLS State: CA Zip: 90212 Phone: 310-869-0715	CONSTRUCTOR SERVICE	PRECONSTRUCT VIDEO	\$795.00	SBE	STATE OF CA, MWD OF SO CA	N/A
Name: SEAL RIGHT PAVING Address: PO BOX 2753 City: SPRING VALLEY, CA Zip: 91979 Phone: 619-465-7411	CONSTRUCTOR	ASPHALT PAVING	\$148,413.68	SLBE	CITY OF SAN DIEGO	N/A

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Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
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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	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

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BIDDING DOCUMENTS

LIST OF SUBCONTRACTORS

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done 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 shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, 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 that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>AMERICAN ASPHALT SOUTH,</u> Address: <u>14436 SANTA ANA AVE</u> City: <u>FONTANA</u> State: <u>CA</u> Zip: <u>92337</u> Phone: <u>909-427-8276</u>	CONSTRUCTOR	SLURRY SEAL	\$49,071.00	OBE	N/A	N/A
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

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 | San Diego Regional Minority Supplier Diversity Council | SRMSDC |
| State of California's Department of General Services | CADoGS | City of Los Angeles | LA |
| State of California | CA | U.S. Small Business Administration | SBA |

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BIDDING DOCUMENTS

NAMED EQUIPMENT/MATERIAL SUPPLIER LIST

The Bidder seeking the recognition of equipment, materials, or supplies obtained from Suppliers towards achieving any mandatory, voluntary, or both subcontracting participation percentages shall list the Supplier(s) on the Named Equipment/Material Supplier List. The Named Equipment/Material Supplier List, at a minimum, shall have the name, locations (City) and the **DOLLAR VALUE** of the Suppliers. The Bidder will be credited up to 60% of the amount to be paid to the Suppliers for such materials and supplies unless vendor manufactures or substantially alters materials and supplies in which case 100% will be credited. The Bidder is to indicate (Yes/No) whether listed firm is a supplier or manufacturer. In calculating the subcontractor participation percentages, vendors/suppliers will receive 60% credit of the listed **DOLLAR VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed dollar value for purposes of calculating the Subcontractor Participation Percentage, Suppliers will receive 60% credit of the listed **DOLLAR VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed **DOLLAR VALUE** for purposes of calculating the subcontractor participation percentages.

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	WHERE CERTIFIED
Name: <u>J. CLOUD INC</u> Address: <u>2094 WILLOW GREN DRIVE</u> City: <u>EL CAJON</u> State: <u>CA</u> Zip: <u>92019</u> Phone: <u>619-593-9020</u>	MATERIALS	\$133,240.00	YES	YES	ELBE	CITY OF SAN DIEGO
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

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 | San Diego Regional Minority Supplier Diversity Council | SRMSDC |
| State of California's Department of General Services | CADoGS | City of Los Angeles | LA |
| State of California | CA | U.S. Small Business Administration | SBA |

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SEWER & WATER GROUP 723

WORK TO BE DONE

CONSTRUCTION OF SEWER AND WATER MAIN REPLACEMENT GROUP 723 CONSISTS OF:
 REMOVAL OF EXISTING SEWER MAINS AND MANHOLES, INSTALLATION OF NEW (8") EIGHT INCH SEWER MAINS,
 CONCRETE MANHOLES, (4") FOUR INCH & (6") SIX INCH SEWER LATERALS, SEWER LATERAL REPLUMB
 & SEWER LATERAL REPLUMB WITH PUMP, EX SEWER MAIN AND MANHOLE ABANDONMENT,
 TRENCH SHORING, TRENCH RESURFACING, CURB RAMPS, REMOVAL OF EXISTING WATER MAINS,
 EX WATER MAIN ABANDONMENT, INSTALLATION OF (8") EIGHT INCH WATER MAINS, WATER SERVICES,
 TEES, CROSS, REDUCER, GATE VALVES, AND ALL OTHER WORK AND APPURTENANCES IN ACCORDANCE
 WITH THE SPECIFICATIONS AND THESE DRAWINGS NUMBERED 32141-01-D THROUGH 32141-27-D

CONTRACTOR'S RESPONSIBILITIES

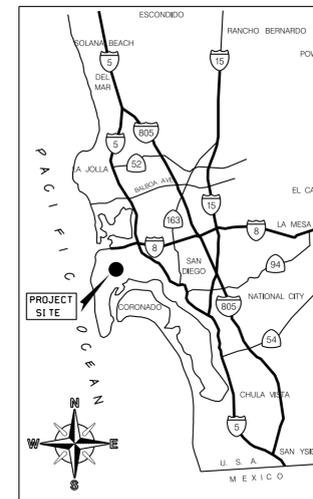
- PURSUANT TO SECTION 4216 OF THE GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT THE REGIONAL NOTIFICATION CENTER (UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.
- THE CONTRACTOR SHALL NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SDG&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES. (i.e., 69 KV & HIGHER)
- THE CONTRACTOR SHALL 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. THE CONTRACTOR SHALL LOCATE THE IMPROVEMENTS THAT WILL BE AFFECTED BY LATERAL REPLACEMENTS.
- THE CONTRACTOR SHALL EXCAVATE AROUND WATER METER BOX (CITY PROPERTY SIDE) TO DETERMINE IN ADVANCE, THE SIZE OF EACH SERVICE BEFORE TAPPING MAIN.
- THE CITY FORCES, WHEN CALLED OUT WILL MAKE PERMANENT CUTS & PLUGS AND CONNECTIONS.
- EXISTING MAINS SHALL BE KEPT IN SERVICE IN LIEU OF HIGH-LINING, UNLESS OTHERWISE 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 5-1.
- 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.

LIMITS OF WORK

SHEET NO.	DISCIPLINE CODE	TITLE	LIMITS	PIPE		LENGTH (FT)
				SIZE (IN)	MATERIAL	
1	G-1	COVER SHEET				
2	C-1	ELLIOTT STREET	ALLEY BLK I & J TO WEST OF JONQUIL DRIVE	8	SEWER	379.18
3	C-2	POINSETTIA DRIVE	ELLIOTT STREET TO LOTUS DRIVE	8	SEWER	713.88
4	C-3	JONQUIL DRIVE	ALLEY BLK K & L TO ALLEY BLK K S/O LOTUS DRIVE	8	SEWER	590.84
4	C-3	JONQUIL DRIVE	ALLEY BLK K S/O LOTUS DRIVE TO LOTUS DR	8	SEWER	39.44
5	C-4	ALLEY BLOCK L	JONQUIL DRIVE TO NARCISSUS DRIVE	8	SEWER	321.68
5	C-4	NARCISSUS DRIVE	ALLEY N/O ELLIOTT STREET TO ALLEY S/O LOTUS DRIVE	8	SEWER	300.00
6	C-5	NARCISSUS DRIVE & LOTUS DRIVE	196' S/O LOTUS DRIVE TO HYACINTH DRIVE	8	SEWER	638.30
7	C-6	HYACINTH DRIVE	CHATSWORTH BOULEVARD TO ALLEY BLOCK D	8	SEWER	786.02
8	C-7	PLUMOSA DRIVE	HYACINTH DRIVE TO 650' W/O HYACINTH DRIVE	8	SEWER	650.00
9	C-8	PLUMOSA DRIVE	650' W/O HYACINTH DRIVE TO CHATSWORTH BOULEVARD	8	SEWER	444.35
10	C-9	ALLEY BLOCK L	72' E/O JONQUIL DRIVE TO 115' E/O NARCISSUS DRIVE	8	SEWER	400.00
10	C-9	ALLEY BLOCK L	ALLEY BLOCK L TO 74' N/O ALLEY BLOCK L	8	SEWER	74.39
11	C-10	ALLEY BLOCK M	115' E/O NARCISSUS DRIVE TO PLUMOSA DRIVE	8	SEWER	541.52
12	C-11	ALLEY BLOCK D	AMARYLLIS DRIVE TO HYACINTH DRIVE	8	SEWER	331.02
12	C-11	ALLEY BLOCK D	NAME ROAD TO NAME BOULEVARD	8	SEWER	194.17
13	C-12	AMARYLLIS DRIVE	ALLEY BLOCK E TO 69' SE OF OLEANDER PL	8	SEWER	220.00
14	C-13	AMARYLLIS DRIVE	69' SE OF OLEANDER PLACE TO 98' E/O ALLEY BLOCK E	8	SEWER	480.01
15	C-14	AMARYLLIS DRIVE	STA. 8+00.00 TO 144' NE OF LOTUS DRIVE	8	SEWER	184.99
16	C-15	ALLEY BLOCK E	ALLEY BLOCK E E/O POINSETTIA DR TO 370' SE OF ALLEY	8	SEWER	370.00
16	C-15	ALLEY BLOCK E	66' N/O LOTUS DRIVE TO 95' SE OF AMARYLLIS DRIVE	8	SEWER	146.28
17	C-16	ALLEY BLOCK E	370' SE OF ALLEY BLOCK E TO AMARYLLIS DRIVE	8	SEWER	366.49
18	C-17	PLUMOSA DRIVE	HYACINTH DRIVE TO 550' W/O HYACINTH DRIVE	8	WATER	550.00
19	C-18	PLUMOSA DRIVE	550' W/O HYACINTH DRIVE TO CHATSWORTH BOULEVARD	8	WATER	547.78
20	C-19	WILLOW STREET	ELLIOTT ST TO GOLDSMITH ST	8	WATER	540.09
21	C-20		CITY FORCES		TOTAL SEWER	8,172.56
22	C-21		STREET RESURFACING		TOTAL WATER	1,637.87
23	C-22		CURB RAMPS LOCATION			
24	C-23		SEWER MAIN & MANHOLE ABANDONMENT			
25	C-24		REPLUMB DETAILS			
26-27	C-25, C-26		WATER POLLUTION CONTROL SITE PLAN			

DISCIPLINE CODE

- G GENERAL
- C CIVIL



VICINITY MAP
NOT TO SCALE

STORM WATER PROTECTION

- THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER NO. R9-2007-0001 AND WATER POLLUTION CONTROL PLAN.
- THIS PROJECT WILL EXCEED THE MAXIMUM DISTURBED AREA LIMIT, THEREFORE A WEATHER TRIGGERED ACTION PLAN (WTAP) IS REQUIRED.
- THIS PROJECT WILL FOLLOW PHASED GRADING NOT TO EXCEED FIVE ACRES PER PHASE.

ABBREVIATIONS

ABAND	ABANDON	DB	DIRECT BURIED	OVHD	OVER HEAD
ABAND'D	ABANDONED	EB	ENCASED BURIED	PVC	POLYVINYL CHLORIDE
AC	ASBESTOS CEMENT PIPE	EL	ELEVATION	PROP	PROPOSED
AHD	AHEAD	ELEC	ELECTRIC	RED	REDUCER
ASSY	ASSEMBLY	EX, EXIST	EXISTING	RT	RIGHT
BK	BACK	E/O	EAST OF	S	SURVEY LINE
BTWN	BETWEEN	F	FLANGE	SO	STUB OUT
CATV	CABLE TV	GV	GATE VALVE	S/O	SOUTH OF
CI	CAST IRON PIPE	HDPE	HIGH-DENSITY POLYETHYLENE	SWR	SEWER
CICL	CAST IRON CONCRETE LINED	HP	HIGH PRESSURE	TEL	TELEPHONE
CL	CENTER LINE	IE	INVERT ELEVATION	UNK	UNKNOWN
CCP	CENTRIFUGAL CONCRETE PIPE	LT	LEFT	VC	VITRIFIED CLAY PIPE
COND	CONDUIT	MJ	MECHANICAL JOINT	WM	WATER METER
CONT	CONTINUED	MTD	MULTIPLE TELEPHONE	WTR	WATER
CONTR	CONTRACTOR	N/O	NORTH OF	W/O	WEST OF
CMP	CORRUGATED METAL PIPE				

EXISTING STRUCTURES

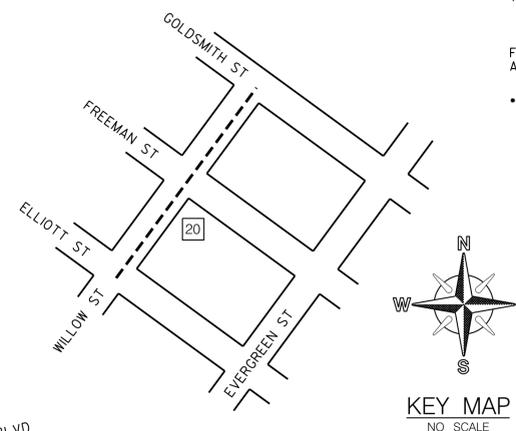
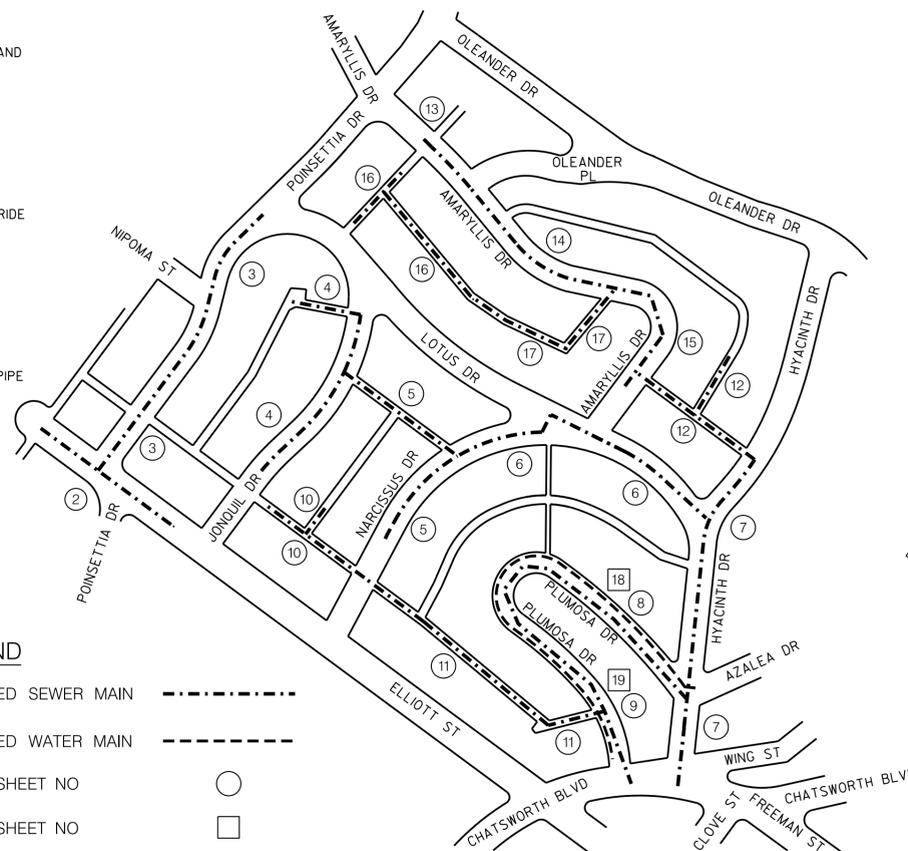
EX WATER MAIN & VALVES	---
EX WATER METER	---
EX FIRE HYDRANT	---
EX SEWER MAIN & MANHOLES	---
EX DRAINS	---
EX PAVEMENT (PROFILE)	---
EX GROUND LINE (PROFILE)	---
EX TRAFFIC SIGNAL	OK TS
EX STREET LIGHT	+ SL
GAS MAIN	---
ELEC. COND., TEL. COND., CATV	--- E --- T --- C ---
RAILROAD, TROLLEY TRACKS	---

LEGEND

PROPOSED SEWER MAIN	---
PROPOSED WATER MAIN	---
SEWER SHEET NO	○
WATER SHEET NO	□

WARNING

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



FIELD DATA

BENCHMARK: NEBP PLUMOSA/CHATSWORTH, ELEV=126.923
 FIELD NOTES: DAVIS/MACY, 210-1698, 9-14-01
 DATUM: MEAN SEA LEVEL
 STREETS REQUIRING 12" TRENCH CAP:
 CHATSWORTH BOULEVARD

FOR ADDITIONAL SYMBOLS SEE RESURFACING, CURB RAMP, HORIZONTAL ALIGNMENT COORDINATE AND TRAFFIC CONTROL SHEETS.

• FOR DETAILS SEE SPECIFICATIONS.

IMPROVEMENTS

TRENCH RESURFACING

SEWER MAIN

SEWER MANHOLE/PVC LINED

4" SEWER LATERAL WITH C.O. UNLESS OTHERWISE SPECIFIED

REPLUMB SEWER LATERAL WITH C.O.

SEWER PUMP INCLUDING REPLUMB SEWER LATERAL WITH C.O.

TUNNEL SEWER REPLUMB LATERAL WITH C.O.

CONCRETE PROTECTION FOR EXIST SEWER PIPE

ABANDON EX MANHOLE

CUTTING AND PLUGGING ABANDONED WATER MAIN

SLURRY FILL ABANDONED SEWER MAIN

SURVEY MONUMENT

WATER MAIN & APPURTENANCES

VALVES WITH CAPS AND WELLS

1" WATER SERVICE UNLESS OTHERWISE SPECIFIED

6" FIRE HYDRANT ASSEMBLY & MARKER 2-PORT UNLESS SPECIFIED AS 3-PORT

AIR & VACUUM VALVE

LEGEND

STANDARD DRAWINGS

•SDG-107, •SDG-108

SDS-101, SDS-108, •SDS-110 (TYPE C)

SDS-106, SDS-107, •SDS-120, SDM-113, M-3, SM-03, SM-04, SM-07

SDS-102, SDS-103, SDS-104, SDS-105, SDS-108, •SDS-110 (TYPE C), SDS-118

SDS-102, SDS-103, SDS-104, SDS-105, SDS-108 •SDS-110 (TYPE C), SDS-118

SDS-102, SDS-103, SDS-104, SDS-105, SDS-108, •SDS-110 (TYPE C), SDS-118

SDS-102, SDS-103, SDS-104, SDS-105

SDS-116

SM-08

WP-03

SEE PLANS & SPECS

M-10

SDW-100, •SDW-110, •SDW-148, WT-01

•SDW-110, •SDW-152, •SDW-153, WV-05

•SDW-107, SDW-134, SDW-135, SDW-136, SDW-137, SDW-138, •SDW-148, •SDW-149, •SDW-150, WS-03

•SDW-104, SDW-109, •SDW-148, •SDW-152, •SDW-153

SDW-100, SDW-117, WA-01, WA-02, WA-04, WA-06

SPEC. NO. 5265

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	-



PLANS FOR THE CONSTRUCTION OF SEWER & WATER GROUP 723 COVER SHEET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 01 OF 27 SHEETS		WATER WBS B-00050 SEWER WBS B-00462
APPROVED: <i>Carl E. Speer</i>	DATE: 06-20-12	DESIGNED BY: BIJAN SHAKIBA ASSOCIATE ENGINEER
FOR CITY ENGINEER		DATE FILMED
DESCRIPTION: ORIGINAL	BY: SG/CK	FILED: SHEILA GAMUEDA PROJECT ENGINEER
		SEE SHEETS CCS27 COORDINATE
		SEE SHEETS CCS83 COORDINATE
CONTRACTOR	DATE STARTED	32141-01-D
INSPECTOR	DATE COMPLETED	

CITY OF SAN DIEGO PUBLIC WORKS PROJECT

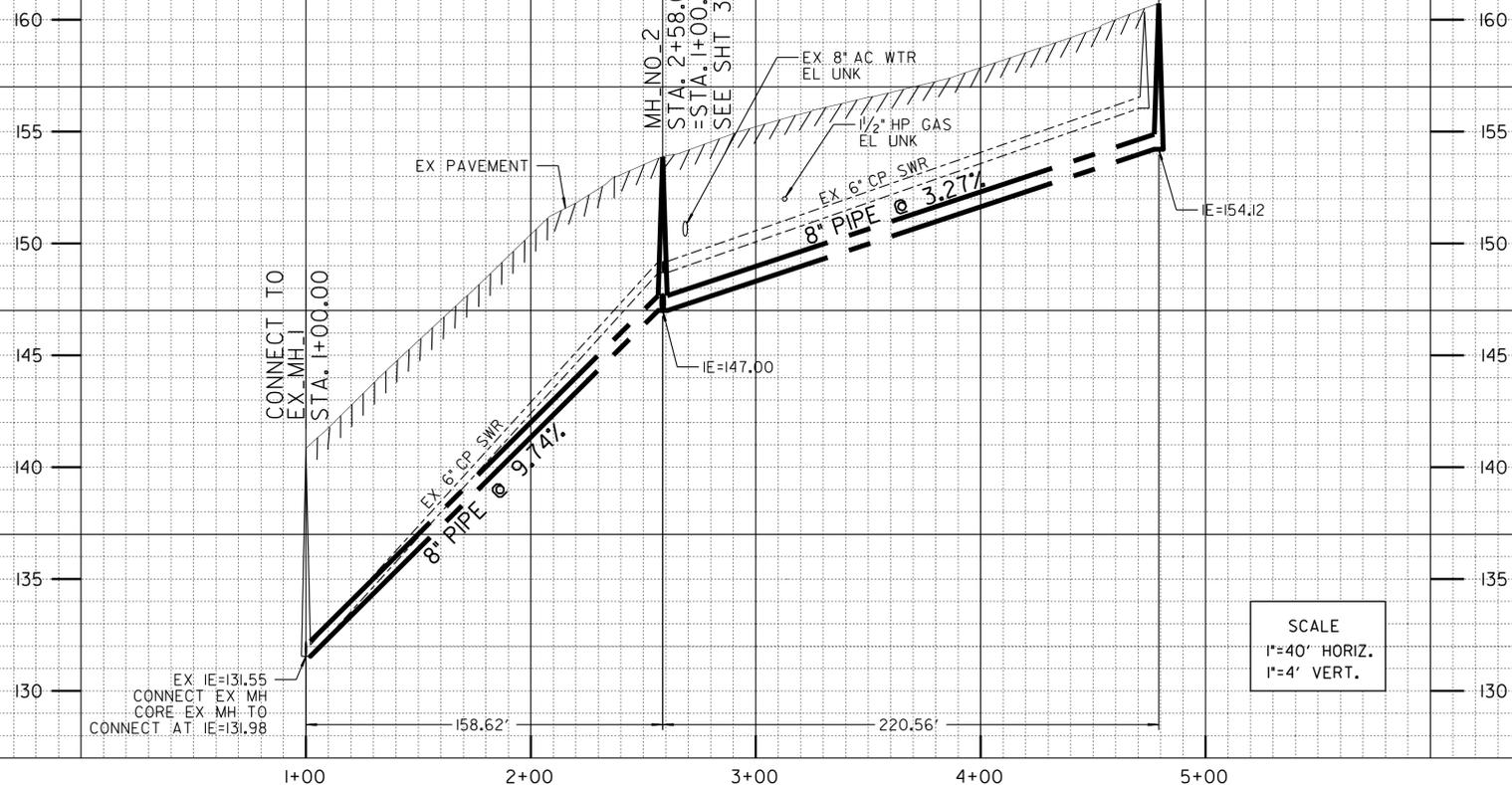


G-1

SEWER & WATER GROUP 723

ELLIOTT ST

MH_NO_3
STA. 4+79.18



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

EX IE=131.55
CONNECT EX MH
CORE EX MH TO
CONNECT AT IE=131.98

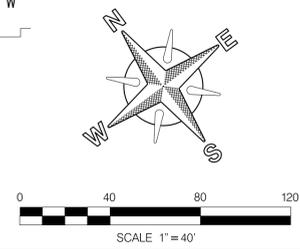
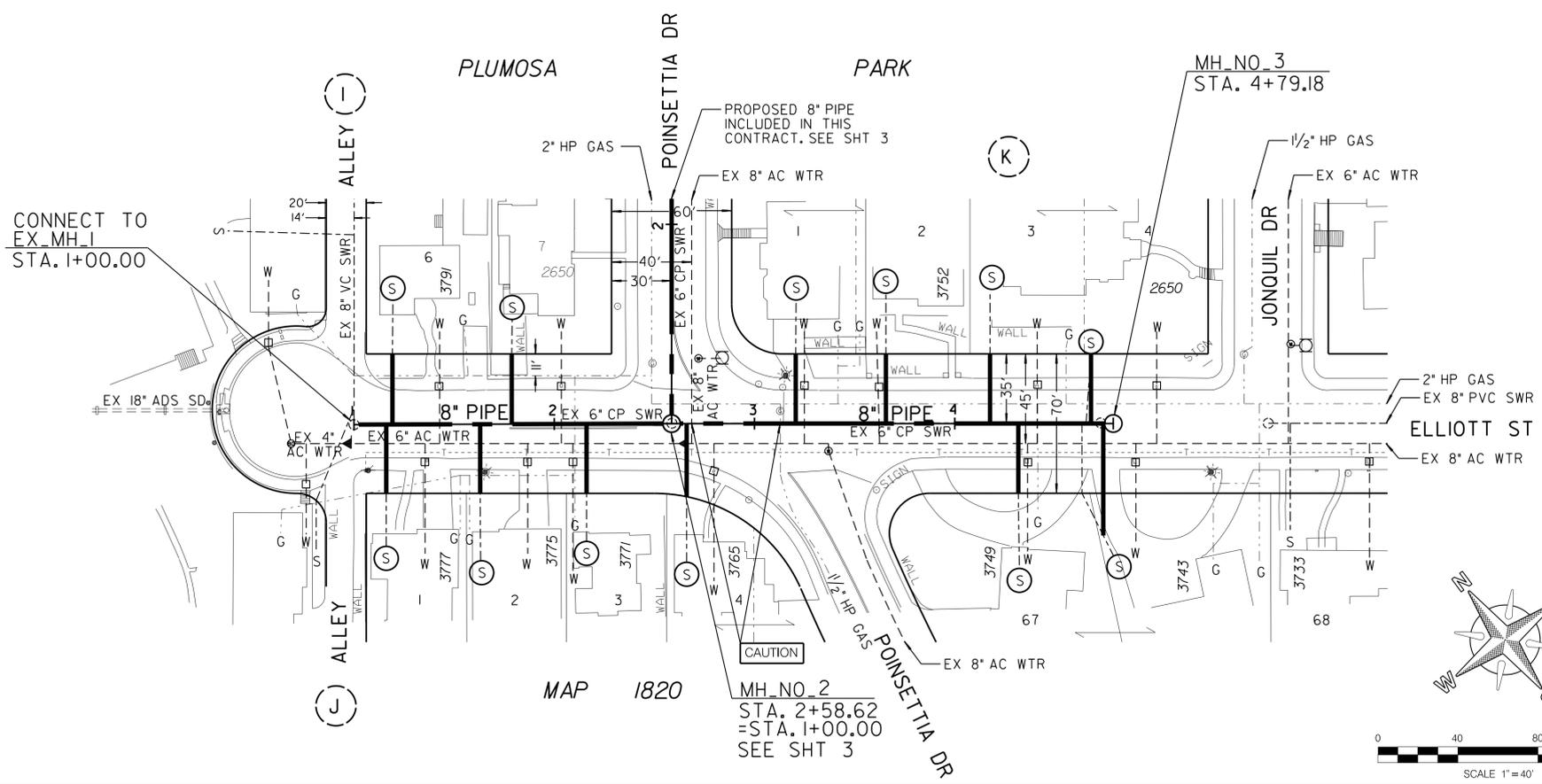
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
1+00.00	4+79.18	379.18 LF
ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
1+00.00	4+79.18	379.18 LF

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S)
PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE
MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

COORDINATE REPORT
Sht 02
POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
ELEMENT LENGTH (ft) WCB (0'00'00") (STRAIGHT) WCB (0'00'00")
(R=STARTING ANGLE) (R=END ANGLE)
POB 1+00.00 1852575.97 6261674.61
STRAIGHT 158.62 S 53°34'11.41" E
PI 2+58.62 1852481.78 6261802.23
STRAIGHT 220.56 S 53°23'21.30" E
POE 4+79.18 1852350.24 6261979.28

REFERENCE:
WATER: I2260-L, 7264-W, I3678-3-D, 6137-W
SEWER: I792-L, I796-L, 31621-2-D
STORM DRAIN: 24734-2-D
GAS: 7-822, 7-828
ELECTRIC: OVERHEAD
CABLE TV: OVERHEAD
TELEPHONE: IB-2011
IMPROVEMENTS: NONE
100' SCALE/FIELD BOOK: C19S-B, D19S-
THOMAS BROS.: I268-C6

RETIREMENTS:
6" - CP - 372.85' - 1925
MH: 4X3, I, 1925
4X3, I, UNK
4" LATERAL - I2 - CP - 1925



C-01

SEWER & WATER GROUP 723
ELLIOTT STREET
ALLEY BLK I & J TO WO JONQUIL DRIVE

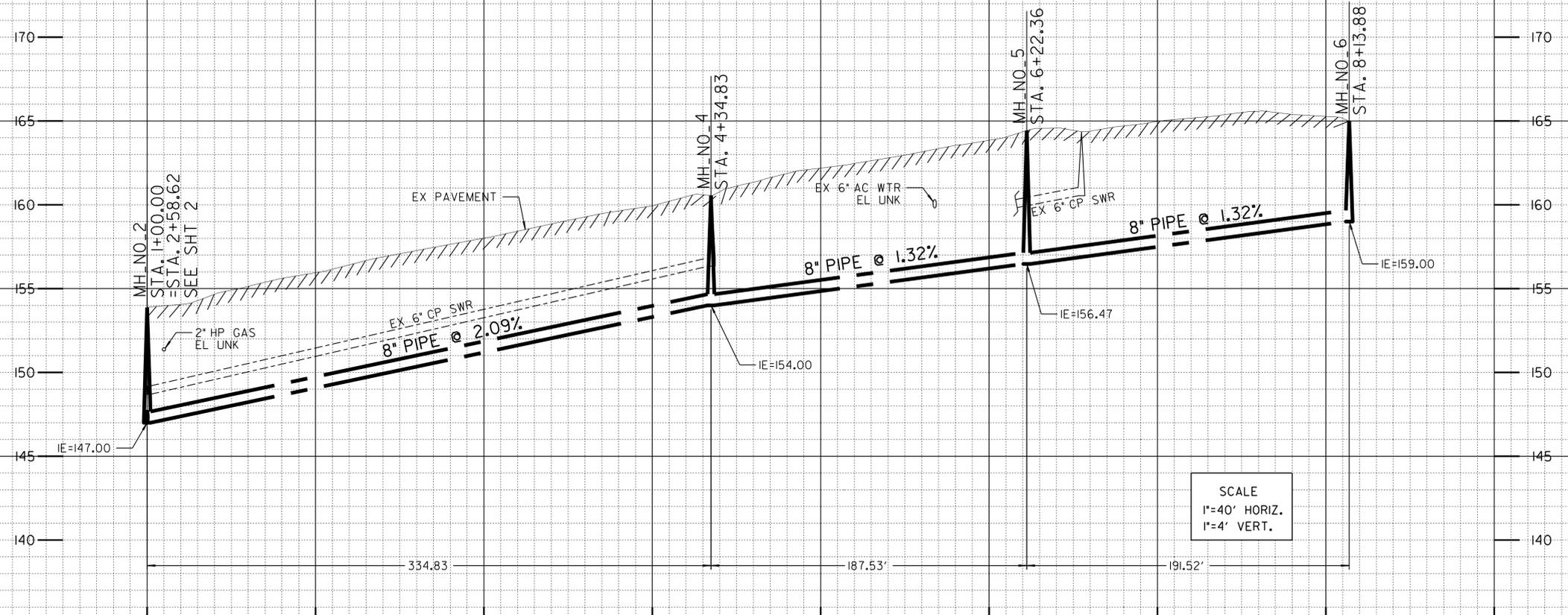
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 02 OF 27 SHEETS		WATER WBS B-00050 SEWER WBS B-00462
APPROVED FOR CITY ENGINEER <i>Carl E. Soper</i>	DATE 06-20-12	DESIGNED BY BIJAN SHAKIBA ASSOCIATE ENGINEER
DESCRIPTION ORIGINAL	BY SG/CK	CHECKED BY SHEILA GAMUEDA PROJECT ENGINEER
	APPROVED	DATE
		212-1698
		CCS27 COORDINATE
		6259407-1852444
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	32141-02-D
INSPECTOR	DATE COMPLETED	



ELLIOTT STREET

POINSETTIA DR

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
I+00.00	8+13.88	713.88 LF
ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
I+00.00	8+13.88	713.88 LF
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.		

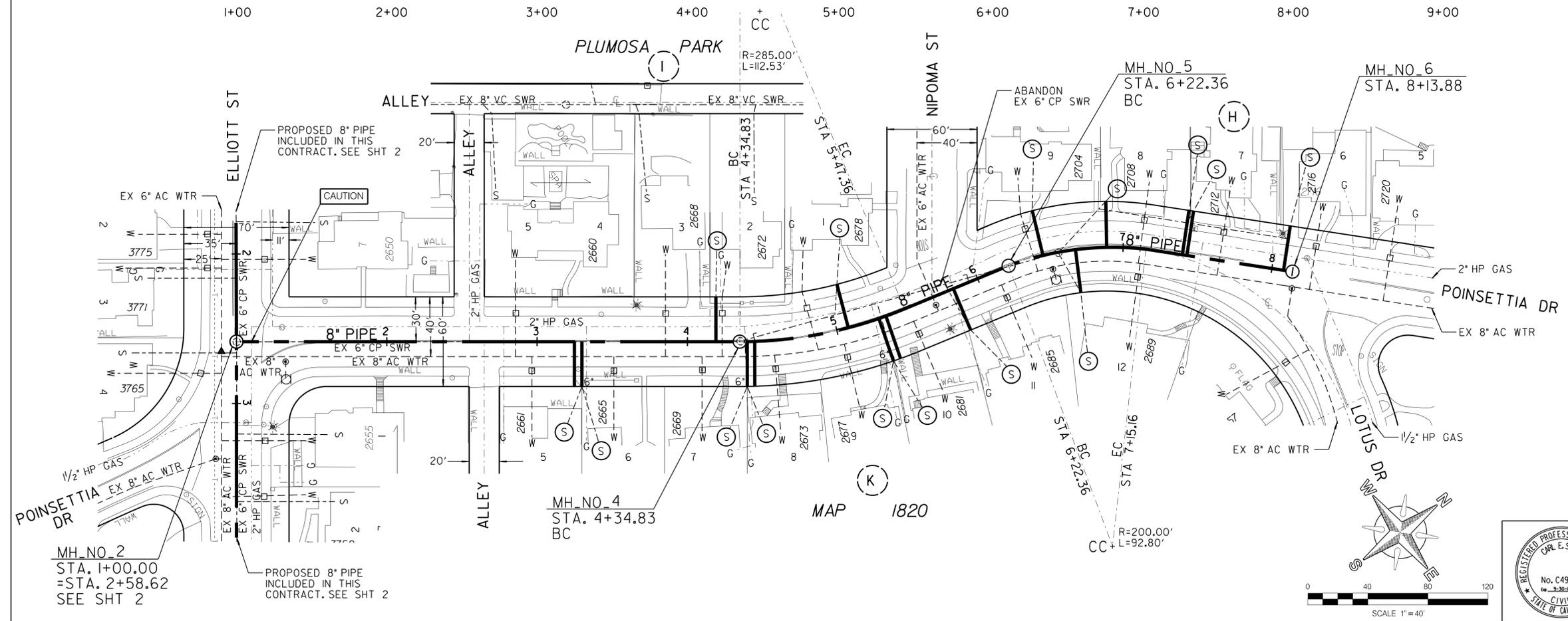


COORDINATE REPORT

Sht 03
 POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
 ELEMENT LENGTH (ft) WCB (0°00'00") (STRAIGHT) WCB (0°00'00")
 (R=STARTING ANGLE) (R=END ANGLE)
 POB 1+00.00 1852481.78 6261802.23
 STRAIGHT 334.83 N 36°37'09.33" E
 PC 4+34.83 1852750.52 6262001.95
 R = -285.00 112.53 N 36°37'09.41" E N 13°59'49.45" E
 PT 5+47.35 1852851.58 6262049.75
 STRAIGHT 75.00 N 13°59'49.67" E
 PC 6+22.35 1852924.36 6262067.89
 R = +200.00 92.80 N 16°23'54.27" E N 42°59'04.00" E
 PT 7+15.16 1853004.25 6262113.44
 STRAIGHT 98.72 N 45°23'09.33" E
 POE 8+13.87 1853073.58 6262183.71

REFERENCE:
 WATER: I3678-3-D, I3678-2-D
 SEWER: I792-L, I796-L
 STORM DRAIN: N/A
 GAS: 7-298H, 7-298-I, 7-298K
 ELECTRIC: OVERHEAD
 CABLE TV: OVERHEAD
 TELEPHONE: OVERHEAD
 IMPROVEMENTS: N/A
 100' SCALE/FIELD BOOK: C19S
 THOMAS BROS.: I268-C6

RETIREMENTS:
 6" - CP - 554.73' - 1925
 MH: 4X3, I, 1925
 4X3, I, UNK
 4" LATERAL - 8 - CP - 1925
 6" LATERAL - 3 - CP - 1925



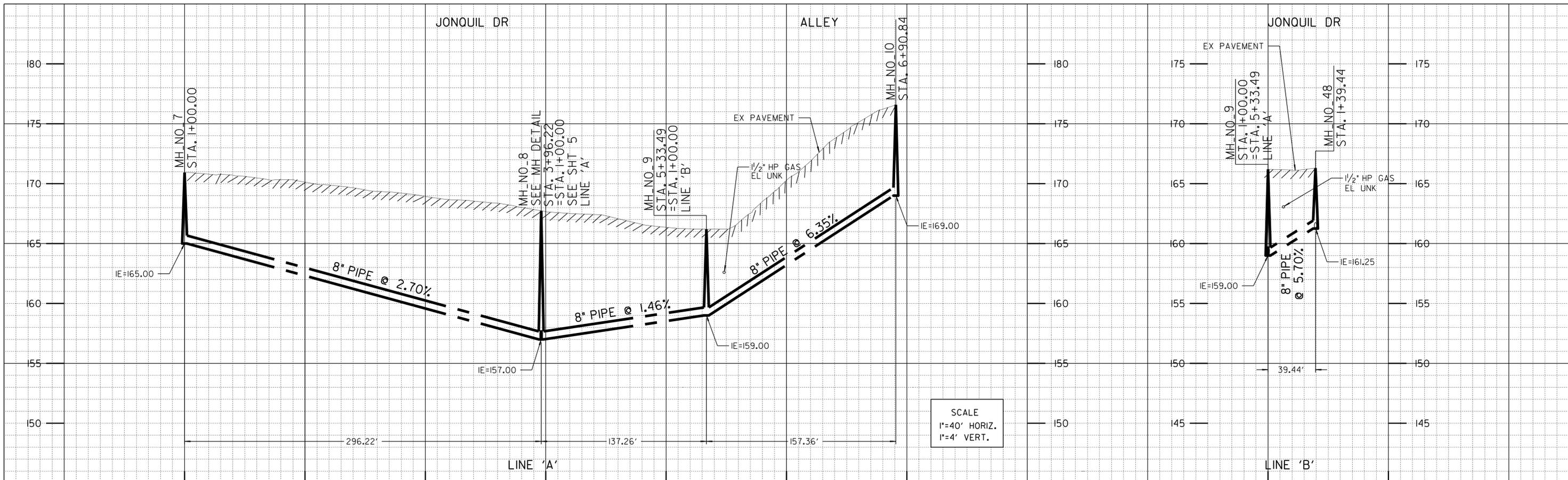
SEWER & WATER GROUP 723			
POINSETTIA DRIVE			
ELLIOTT STREET TO LOTUS DRIVE			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 03 OF 27 SHEETS		WATER WBS B-00050 SEWER WBS B-00462	
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER	DATE 06-20-12	DESIGNED BY: BIJAN SHAKIBA ASSOCIATE ENGINEER	
DESCRIPTION ORIGINAL	BY SG/CK	APPROVED	DATE FILMED
		CHECKED BY: SHEILA GAMUEDA PROJECT ENGINEER	
		212-1698	
		CCS27 COORDINATE	
		6259407-1852444	
		CCS88 COORDINATE	
CONTRACTOR	DATE STARTED	32141-03-D	
INSPECTOR	DATE COMPLETED		

POINSETTIA DRIVE

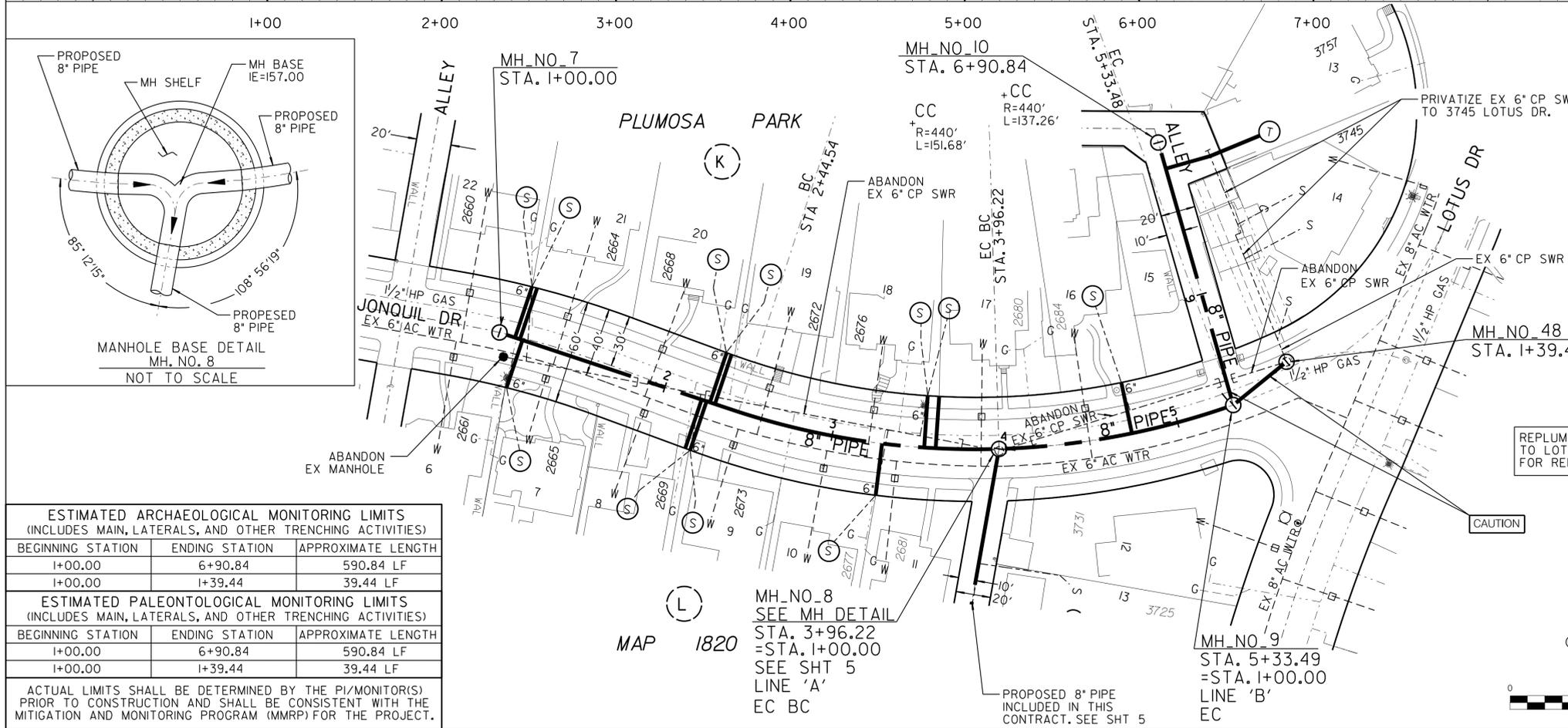
C-02



MAP 1820



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



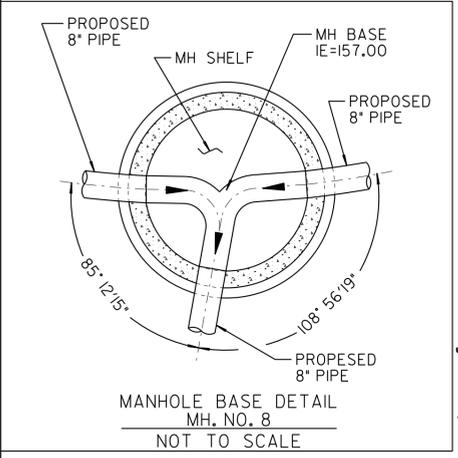
COORDINATE REPORT

Sht 04 Line 'A'
POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
ELEMENT LENGTH (ft) WCB (0°00'00") (STRAIGHT) WCB (0°00'00")
(R=STARTING ANGLE) (R=END ANGLE)
POB 1+00.00 1852481.06 6262173.73
STRAIGHT 144.54 N 45°05'35.51" E
PC 2+44.54 1852583.10 6262276.10
R = -440.00 151.68 N 44°37'58.50" E N 24°52'52.68" E
PCC 3+96.22 1852707.10 6262362.15
R = -440.00 137.26 N 24°52'52.74" E N 7°00'26.36" E
PT 5+33.49 1852838.55 6262399.70
STRAIGHT 157.36 N 79°14'03.28" W
POE 6+90.84 1852867.94 6262245.11

Sht 04 Line 'B'
POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
ELEMENT LENGTH (ft) WCB (0°00'00") (STRAIGHT) WCB (0°00'00")
(R=STARTING ANGLE) (R=END ANGLE)
POB 1+00.00 1852838.55 6262399.70
STRAIGHT 39.44 N 12°34'38.37" W
POE 1+39.44 1852877.04 6262391.11

REFERENCE:
WATER: 13678-6-D, 13678-4-D
SEWER: 1792-L, 2735-B, 2735-I-B
STORM DRAIN: N/A
GAS: 7-298K, 7-298L
ELECTRIC: OVERHEAD
CABLE TV: OVERHEAD
TELEPHONE: OVERHEAD
IMPROVEMENTS: N/A
100' SCALE/FIELD BOOK: C195
THOMAS BROS.: I268-C6

RETIREMENTS:
MH: 4X3, 1, 1925
4" LATERAL - 3 - CP - 1925
6" LATERAL - 7 - CP - 1925



ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

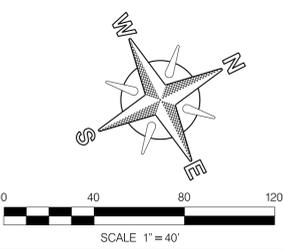
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
1+00.00	6+90.84	590.84 LF
1+00.00	1+39.44	39.44 LF

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
1+00.00	6+90.84	590.84 LF
1+00.00	1+39.44	39.44 LF

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

REPLUMB 3757 LOTUS DR TO LOTUS DR. SEE SHEET 25 FOR REPLUMB DETAILS.



SEWER & WATER GROUP 723

JONQUIL DRIVE

ALLEY BLK K&L TO ALLEY BLK K SO LOTUS DR

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 04 OF 27 SHEETS

APPROVED: *Carl E. Spier* 06-20-12 DATE
FOR CITY ENGINEER

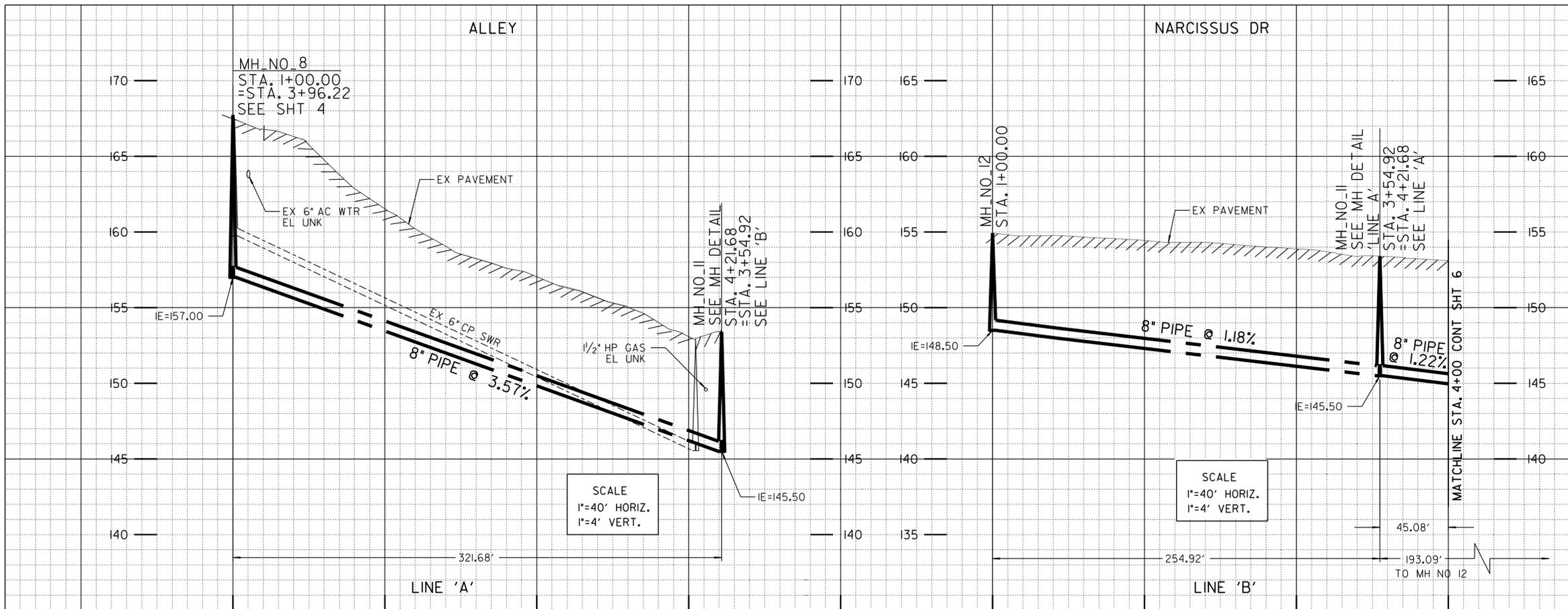
DESIGNED BY: BIJAN SHAKIBA ASSOCIATE ENGINEER
CHECKED BY: SHEILA GAMUEDA PROJECT ENGINEER
212-1698
CC527 COORDINATE
6259407-1852444
CC583 COORDINATE

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

32141-04-D

C-03

JONQUIL DRIVE



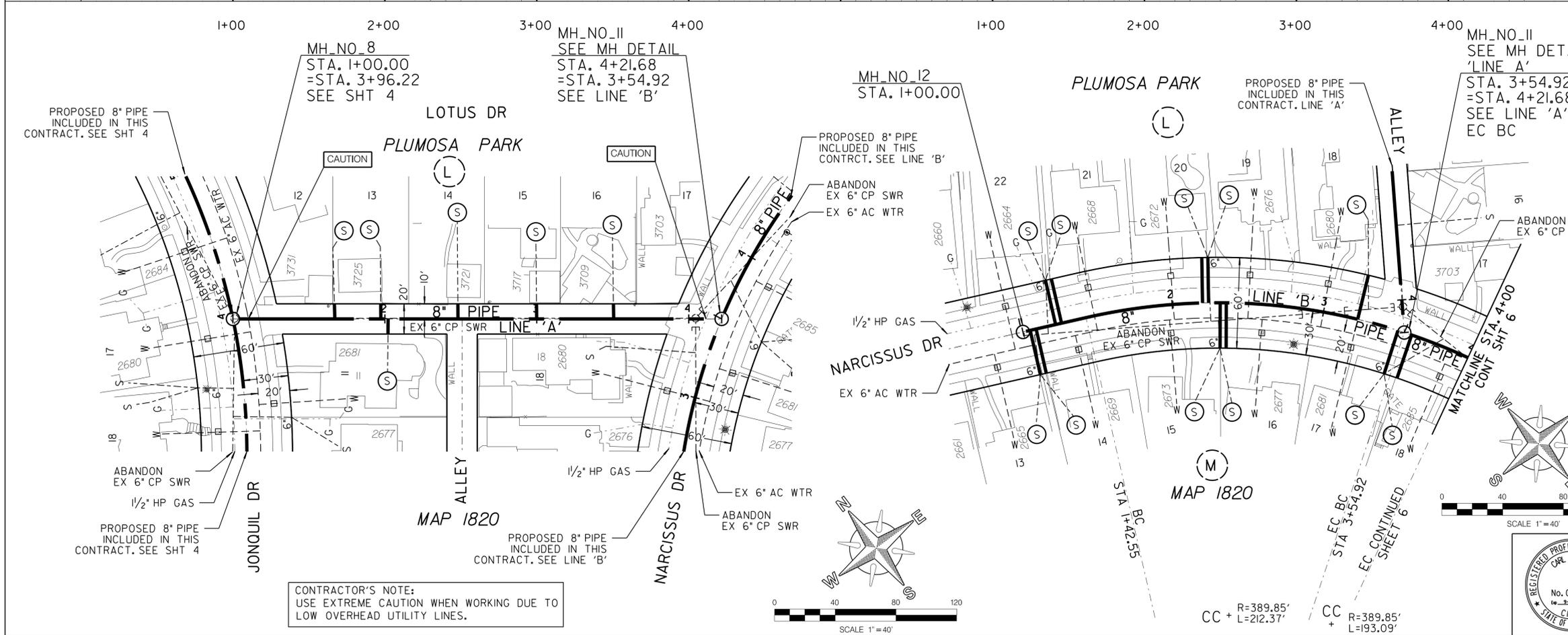
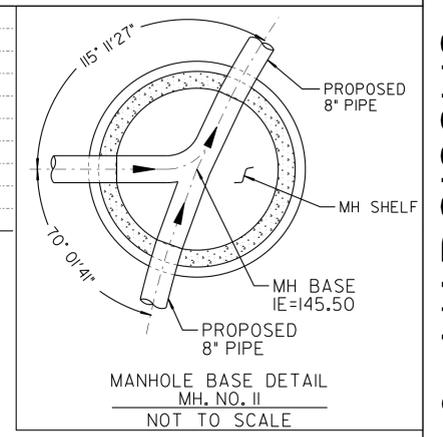
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
1+00.00	4+21.68	321.68 LF
1+00.00	4+00.00	300.00 LF
ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
1+00.00	4+21.68	321.68 LF
1+00.00	4+00.00	300.00 LF

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

COORDINATE REPORT

Sht 05 Line 'A'
 POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
 ELEMENT LENGTH (ft) WCB (0°00'00") (STRAIGHT) WCB (0°00'00")
 (R=STARTING ANGLE) (R=END ANGLE)
 POB 1+00.00 1852707.10 6262362.15
 STRAIGHT 321.68 S 53°23'23.78" E
 POE 4+21.68 1852515.26 6262620.36

Sht 05-06
 POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
 ELEMENT LENGTH (ft) WCB (0°00'00") (STRAIGHT) WCB (0°00'00")
 (R=STARTING ANGLE) (R=END ANGLE)
 POB 1+00.00 1852325.75 6262455.78
 STRAIGHT 42.55 N 27°59'42.93" E
 PC 1+42.55 1852363.32 6262475.75
 R = +389.85 212.37 N 27°58'44.57" E N 59°11'29.26" E
 PCC 3+54.92 1852515.26 6262620.36
 R = +389.85 193.09 N 59°11'29.74" E N 87°34'11.85" E
 PT 5+48.01 1852569.92 6262803.50 (SEE SHT 6)



REFERENCE:
 WATER: 13678-6-L, 13678-7-L
 SEWER: 1791-L, 1792-L, 1796-L
 STORM DRAIN: N/A
 GAS: 7-298L
 ELECTRIC: OVERHEAD
 CABLE TV: OVERHEAD
 TELEPHONE: OVERHEAD
 IMPROVEMENTS: N/A
 100' SCALE/FIELD BOOK: CI9S-B, DI9S-A, DI9S-D
 THOMAS BROS.: 1268-C6

RETIREMENTS:
 6" - CP - 303.47' - 1925
 MH: 4X3, 1, 1925
 4" LATERAL - 1 - CP - 1925
 6" LATERAL - 5 - CP - 1925

C-04

SEWER & WATER GROUP 723
 ALLEY BLOCK L
 JONQUIL DRIVE TO NARCISSUS DR
 NARCISSUS DRIVE
 ALLEY NO ELLIOTT ST TO ALLEY SO LOTUS DRIVE

CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET 05 OF 27 SHEETS

APPROVED: *[Signature]* 06-20-12
 FOR CITY ENGINEER DATE

DESIGNED BY: BIJAN SHAKIBA
 ASSOCIATE ENGINEER

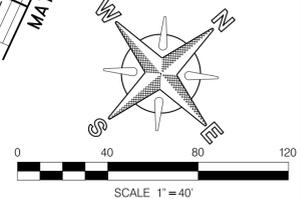
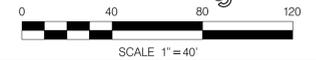
CHECKED BY: SHEILA GAMUEDA
 PROJECT ENGINEER

NO. C49744
 CIVIL
 STATE OF CALIFORNIA

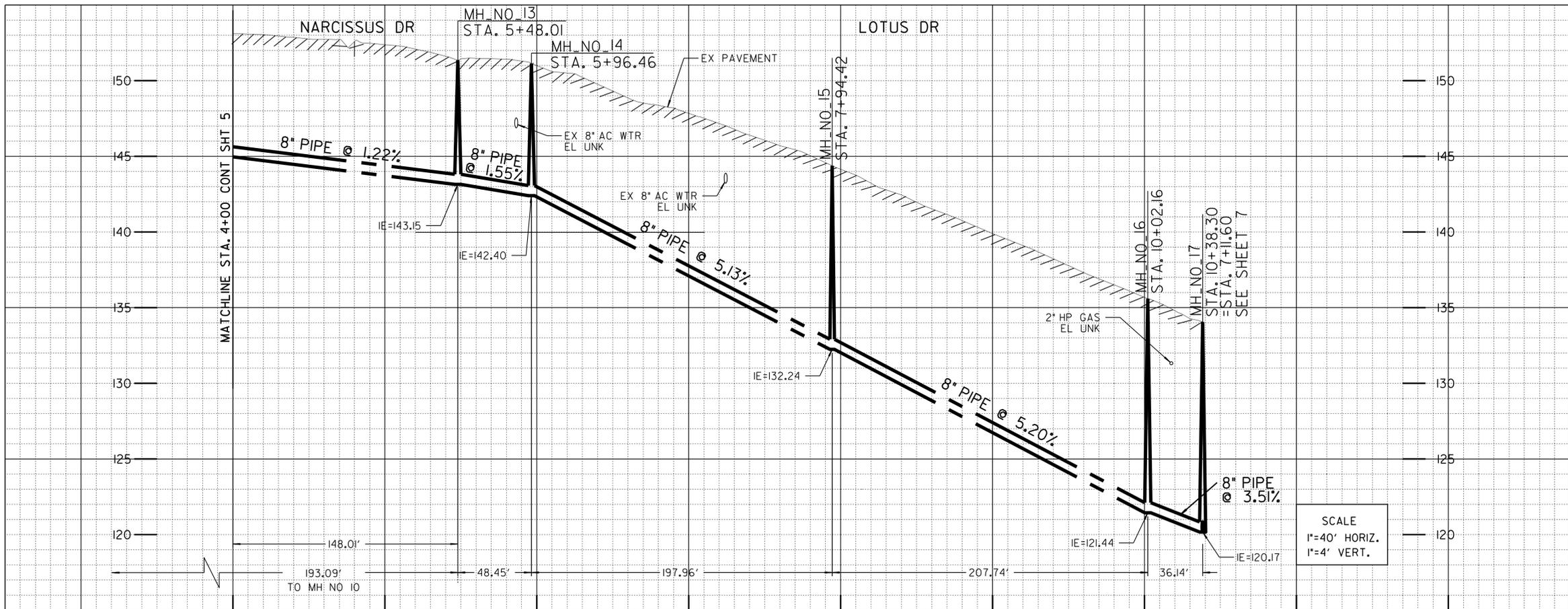
CONTRACTOR: _____ DATE STARTED: _____
 INSPECTOR: _____ DATE COMPLETED: _____

32141-05-D

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



ALLEY BLOCK L & NARCISSUS DRIVE



ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
4+00.00	10+38.30	638.30 LF

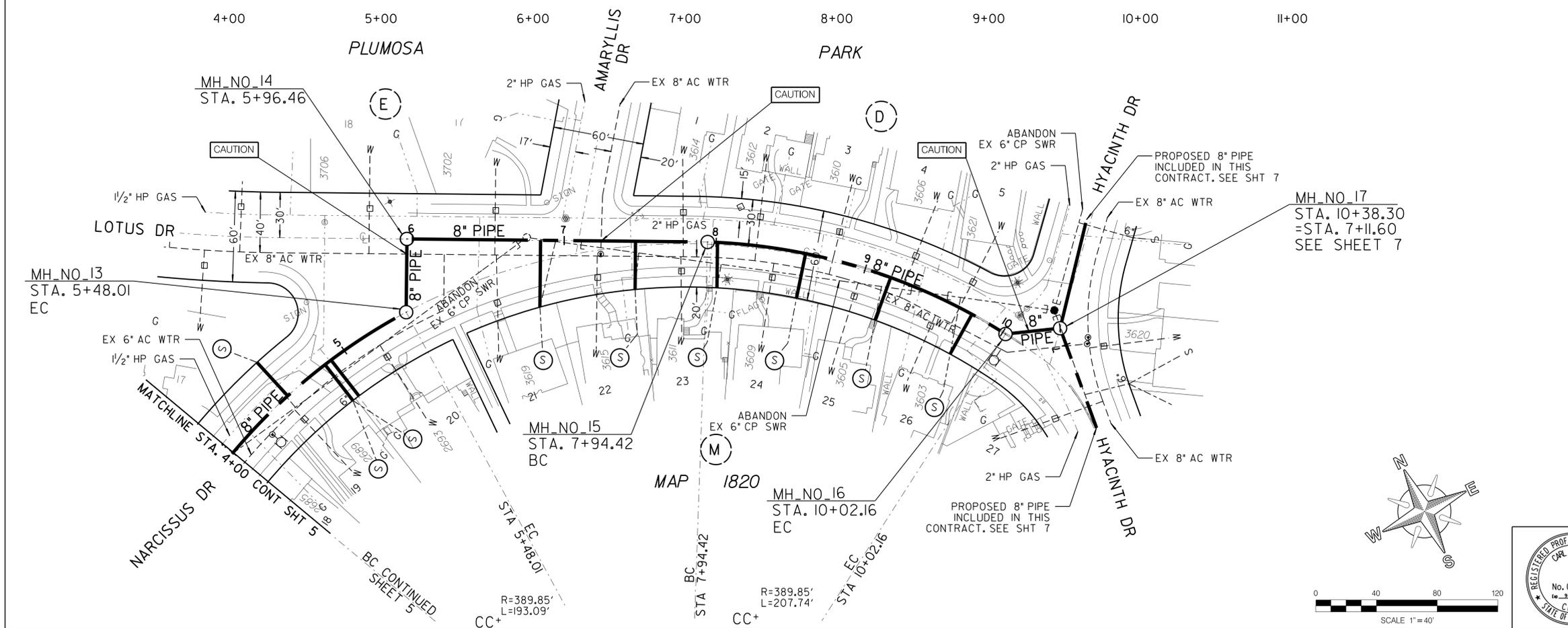
ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
4+00.00	10+38.30	638.30 LF

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

COORDINATE REPORT

Sht 05-06
 POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
 ELEMENT LENGTH (ft) WCB (0°00'00") (STRAIGHT) WCB (0°00'00")
 (R=STARTING ANGLE) (R=END ANGLE)
 PCC 3+54.92 1852515.26 6262620.36 (SEE SHT 5)
 R = +389.85 193.09 N 59°11'29.74" E N 87°34'11.85" E
 PT 5+48.01 1852569.92 6262803.50
 STRAIGHT 48.45 N 26°28'32.39" E
 PI 5+96.46 1852613.29 6262825.10
 STRAIGHT 197.96 S 63°31'28.53" E
 PC 7+94.42 1852525.04 6263002.31
 R = +389.85 207.74 S 62°07'29.62" E S 31°35'38.51" E
 PT 10+02.16 1852384.67 6263152.10
 STRAIGHT 36.14 S 70°12'14.82" E
 POE 10+38.30 1852372.43 6263186.10

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

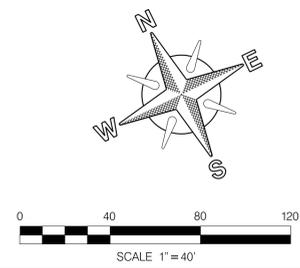


REFERENCE:
 WATER: 13678-4-D, 13678-5-D, 13678-7-D, 13678-8-D
 SEWER: 1791-L, 1796-L
 STORM DRAIN: N/A
 GAS: 7-298-L, 7-298M2
 ELECTRIC: OVERHEAD
 CABLE TV: OVERHEAD
 TELEPHONE: OVERHEAD
 IMPROVEMENTS: N/A
 100' SCALE/FIELD BOOK: D19S-A
 THOMAS BROS.: 1268-C6

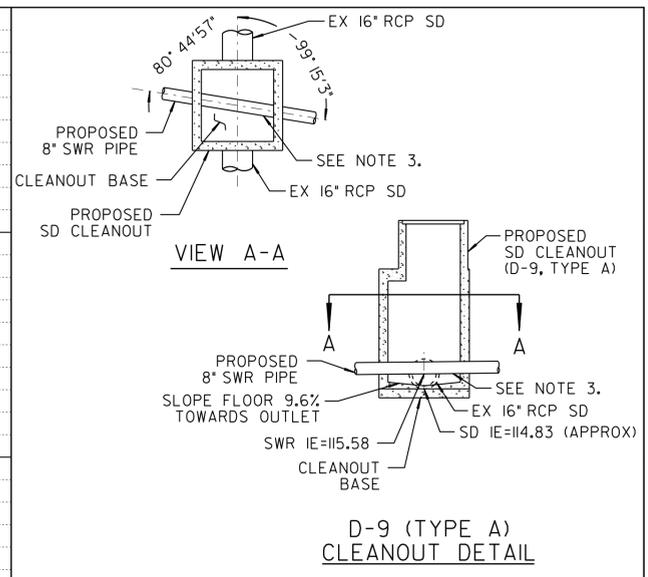
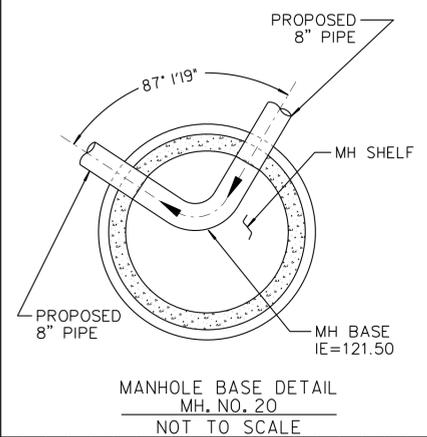
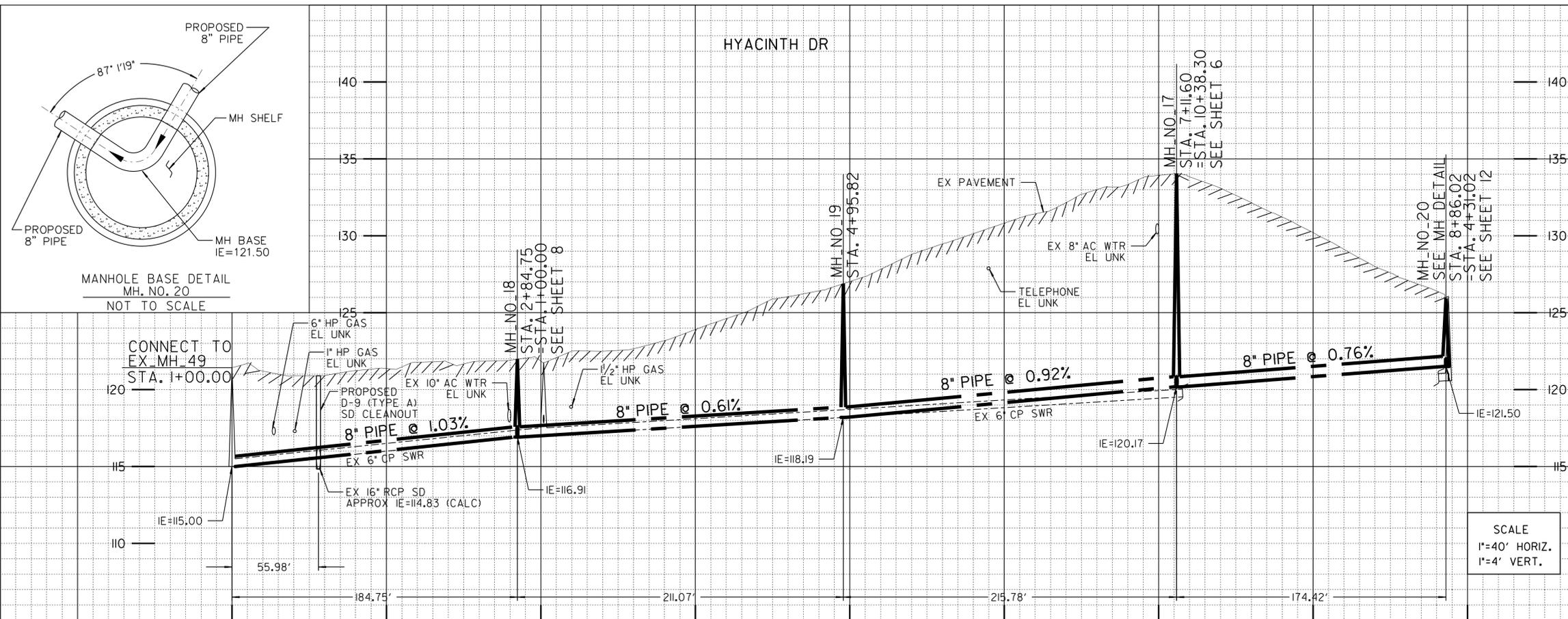
RETIREMENTS:
 MH: 4X3, 1, 1925
 4" LATERAL - 6 - CP - 1925
 6" LATERAL - 1 - CP - 1925

C-05

SEWER & WATER GROUP 723			
NARCISSUS DRIVE & LOTUS DRIVE			
196' SO LOTUS DRIVE TO HYACINTH DRIVE			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 06 OF 27 SHEETS		WATER WBS B-00050 SEWER WBS B-00462	
APPROVED: <i>Carl Diaz</i>	DATE: 06-20-12	DRAWN BY: BIJAN SHAKIBA ASSOCIATE ENGINEER	
FOR CITY ENGINEER		CHECKED BY: SHEILA GAMUEDA PROJECT ENGINEER	
DESCRIPTION: ORIGINAL	BY: SG/CK	APPROVED:	DATE: 212-1701
			CCS27 COORDINATE
			6262407-1852444
			CCS83 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____	32141-06-D	
INSPECTOR: _____	DATE COMPLETED: _____		



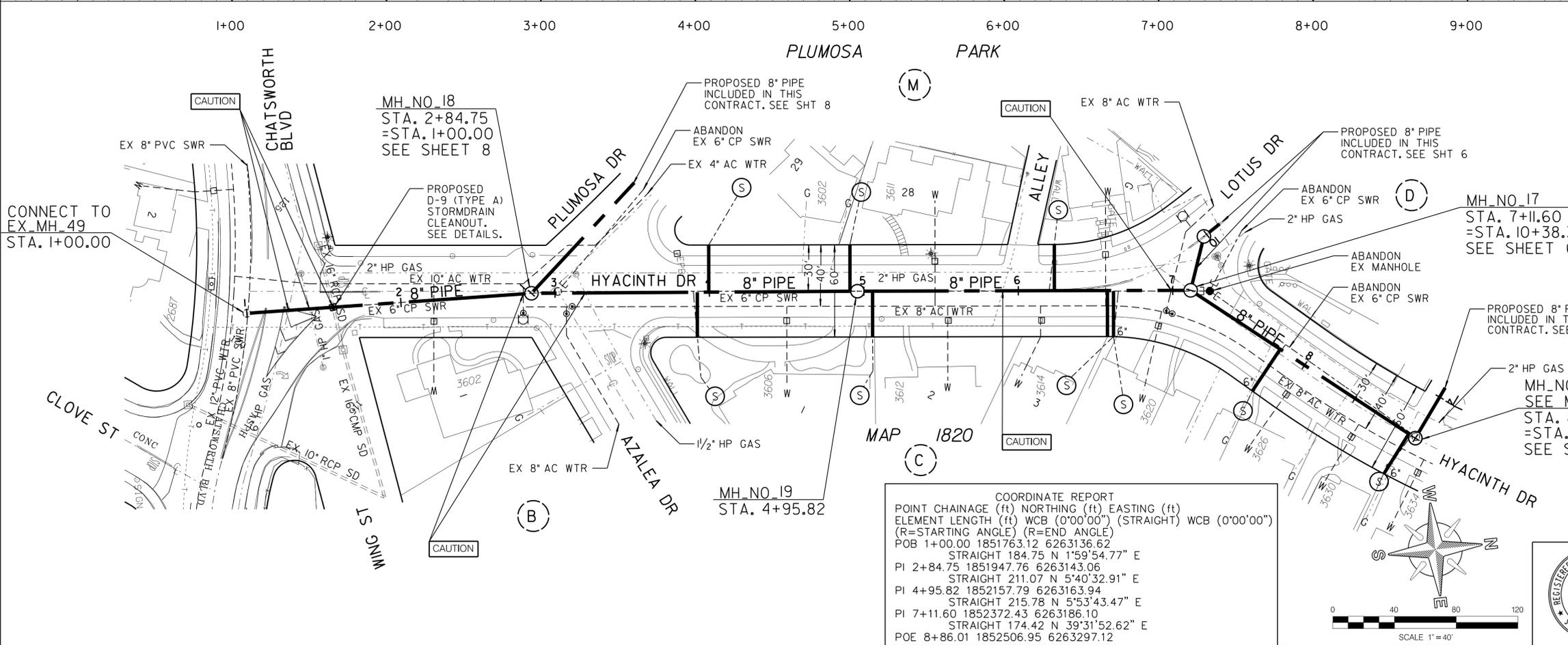
NARCISSUS DRIVE & LOTUS DRIVE



NOTES:

1. CONTRACTOR TO VERIFY ELEVATION OF STORMDRAIN. IF STORMDRAIN CROSSES PROPOSED SEWER MAIN INSTALL D-9 (TYPE A) STORMDRAIN CLEANOUT. SEE DETAILS.
2. CONTRACTOR TO CONSTRUCT AND MODIFY D-9 (TYPE A) CLEANOUT TO ACCOMMODATE SEWER LATERAL CROSSING STORMDRAIN AS SHOWN ON DETAILS.
3. CONTRACTOR SHALL INSTALL A SINGLE PIECE OF PIPE THROUGH THE CLEANOUT.

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



COORDINATE REPORT

POINT CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)
POB 1+00.00	1851763.12	6263136.62
STRAIGHT 184.75	N 1°59'54.77" E	
PI 2+84.75	1851947.76	6263143.06
STRAIGHT 211.07	N 5°40'32.91" E	
PI 4+95.82	1852157.79	6263163.94
STRAIGHT 215.78	N 5°53'43.47" E	
PI 7+11.60	1852372.43	6263186.10
STRAIGHT 174.42	N 39°31'52.62" E	
POE 8+86.01	1852506.95	6263297.12

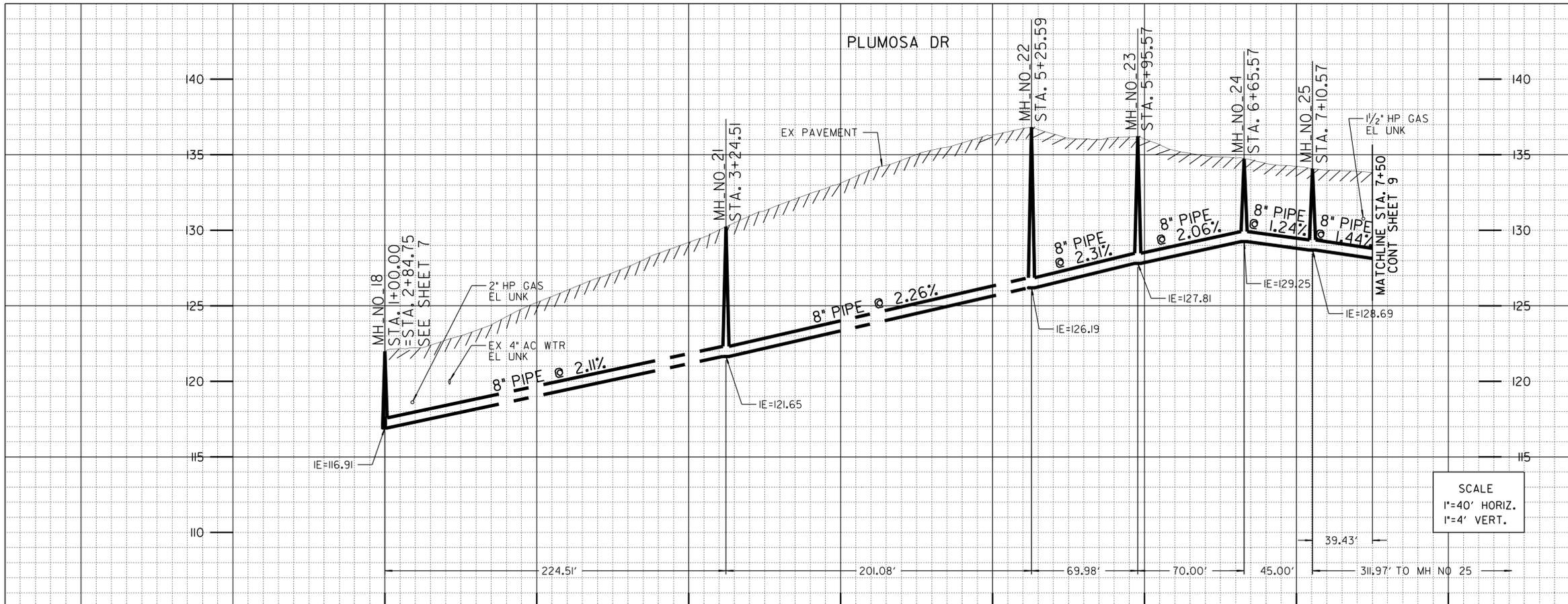
REFERENCE:
 WATER: 13678-8-D, 13678-4-D, 30672-13-D, 12119-13-D
 SEWER: 1790-L, 1791-L, 1796-L
 STORM DRAIN: N/A
 GAS: 7-298B, 7-298C, 7-298MI, 7-298M2
 ELECTRIC: OVERHEAD
 CABLE TV: OVERHEAD
 TELEPHONE: IB 2028
 IMPROVEMENTS: N/A
 100' SCALE/FIELD BOOK: D19S-D
 THOMAS BROS.: 1268-C6

RETIREMENTS:
 6" - CP - 611.63' - 1925
 MH: 4X3, 1, 1925
 4" LATERAL - 5 - CP - 1925
 6" LATERAL - 3 - CP - 1925

SEWER & WATER GROUP 723		HYACINTH DRIVE		CHATSORTH BLVD TO ALLEY BLOCK D	
CITY OF SAN DIEGO, CALIFORNIA		ENGINEERING AND CAPITAL PROJECTS DEPARTMENT		SHEET 07 OF 27 SHEETS	
APPROVED:	DATE: 06-20-12	FOR CITY ENGINEER:	DATE:	FILED:	DATE:
BY: SHEILA GAMUEDA		BY: BIJAN SHAKIBA		BY: CARL E. SPER	
PROJECT ENGINEER		ASSOCIATE ENGINEER		REGISTERED PROFESSIONAL ENGINEER	
210-1701		6262407-1850444		CCS88 COORDINATE	
CONTRACTOR:		DATE STARTED:		32141-07-D	
INSPECTOR:		DATE COMPLETED:			

C-06

HYACINTH DRIVE

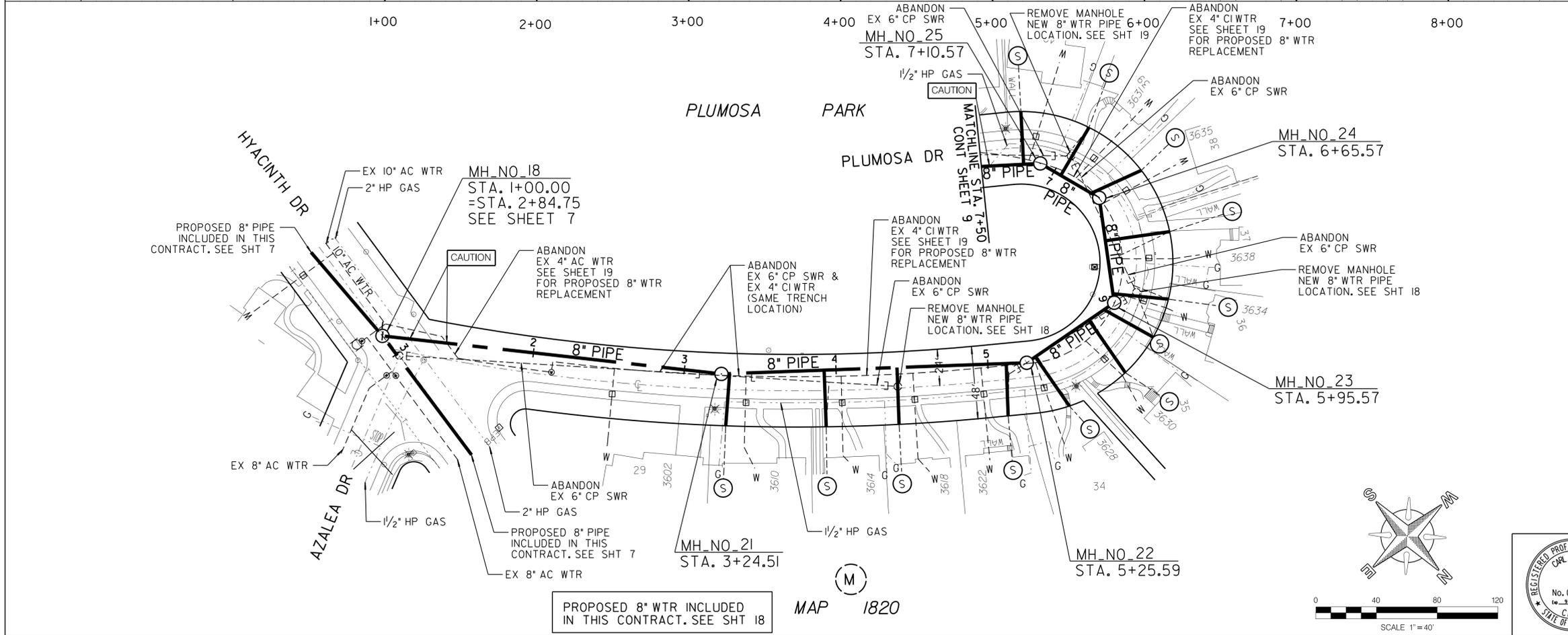


ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
1+00.00	7+50.00	650.00 LF
ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
1+00.00	7+50.00	650.00 LF
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.		

COORDINATE REPORT

Sht 08-09
 POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
 ELEMENT LENGTH (ft) WCB (0'00'00") (STRAIGHT) WCB (0'00'00")
 (R=STARTING ANGLE) (R=END ANGLE)
 POB 1+00.00 1851947.76 6263143.06
 STRAIGHT 224.51 N 41°11'00.03" W
 PI 3+24.51 1852116.73 6262995.23
 STRAIGHT 201.08 N 49°42'45.59" W
 PI 5+25.60 1852246.75 6262841.84
 STRAIGHT 69.98 N 82°11'30.83" W
 PI 5+95.58 1852256.26 6262772.51
 STRAIGHT 70.00 S 34°16'49.15" W
 PI 6+65.58 1852198.42 6262733.08
 STRAIGHT 45.00 S 17°12'59.44" E
 PI 7+10.58 1852155.44 6262746.40
 STRAIGHT 116.61 S 50°36'03.32" E
 PC 8+27.19 1852081.42 6262836.51 (SEE SHT 9)

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

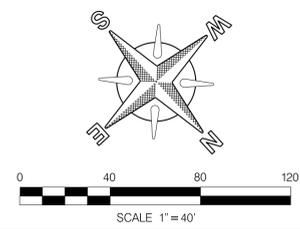
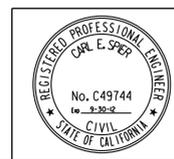


REFERENCE:
 WATER: I790-L, I791-L, 1997-L, I2119-13-D
 SEWER: I790-L, I791-L, I796-L
 STORM DRAIN: N/A
 GAS: 7-298M, 7-298M2
 ELECTRIC: OVERHEAD
 CABLE TV: OVERHEAD
 TELEPHONE: OVERHEAD
 IMPROVEMENTS: N/A
 100' SCALE/FIELD BOOK: D19S-D
 THOMAS BROS.: I268-C6

RETIREMENTS:
 6" - CP - 187.60' - 1925
 MH: 4X3, 1, 1925
 4" LATERAL - 12 - CP - 1925

C-07

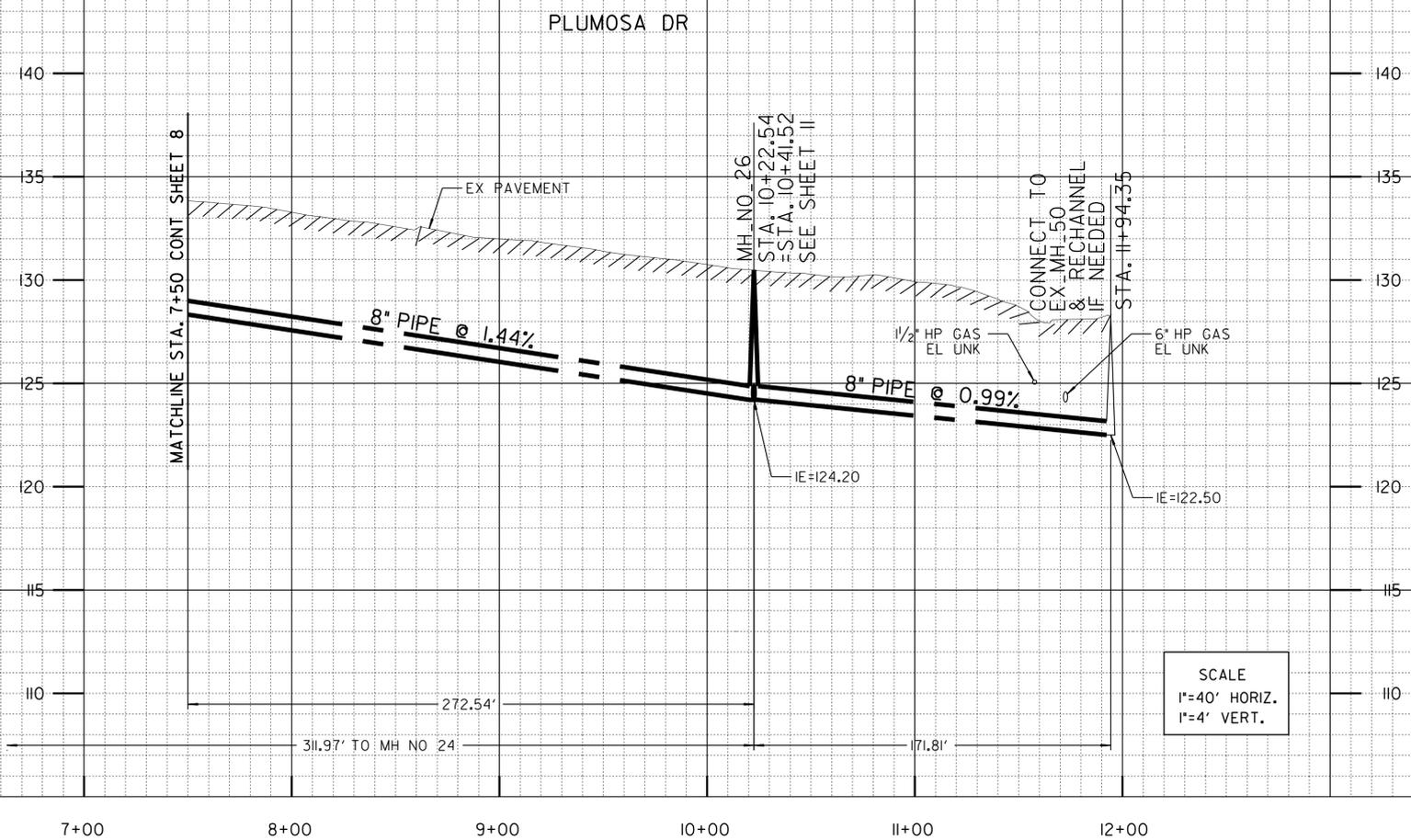
SEWER & WATER GROUP 723	
PLUMOSA DRIVE	
HYACINTH DRIVE TO 650' WO AZALEA DR	
CITY OF SAN DIEGO, CALIFORNIA	
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT	
SHEET 08 OF 27 SHEETS	
APPROVED: <i>Carl D. ...</i>	DATE: 06-20-12
FOR CITY ENGINEER	DATE
DESIGNER: <i>Sheila Gamueda</i>	DATE
BY: SG/CK	APPROVED: <i>Sheila Gamueda</i>
FILED	PROJECT ENGINEER
	210-1701
	CCS27 COORDINATE
	6262407-1850444
	CCS83 COORDINATE
CONTRACTOR	DATE STARTED
INSPECTOR	DATE COMPLETED
	32141-08-D



PROPOSED 8" WTR INCLUDED IN THIS CONTRACT. SEE SHT 18

MAP 1820

PLUMOSA DRIVE



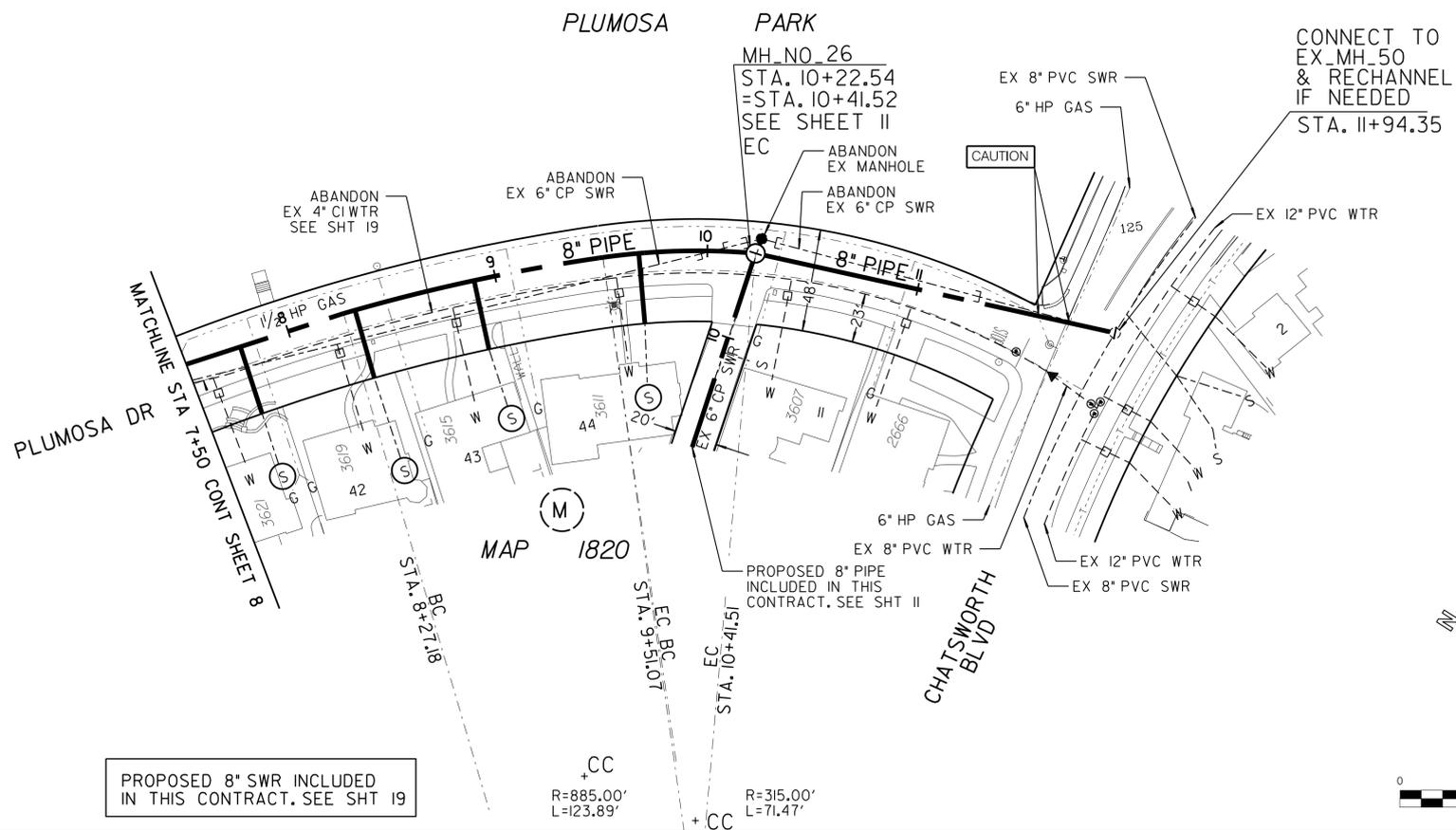
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
7+50.00	11+94.35	444.35 LF

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
7+50.00	11+94.35	444.35 LF

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

COORDINATE REPORT

Sht 08-09
 POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
 ELEMENT LENGTH (ft) WCB (0°00'00") (STRAIGHT) WCB (0°00'00")
 (R=STARTING ANGLE) (R=END ANGLE)
 PI 7+10.58 1852155.44 6262746.40 (SEE SHT 8)
 STRAIGHT 116.61 S 50°36'03.32" E
 PC 8+27.19 1852081.42 6262836.51
 R = +885.00 123.89 S 48°52'42.88" E S 40°51'28.13" E
 PCC 9+51.08 1851993.69 6262923.84
 R = +315.00 71.47 S 40°38'14.90" E S 27°38'17.96" E
 PT 10+22.54 1851934.67 6262963.86
 STRAIGHT 171.81 S 20°03'49.85" E
 POE 11+94.35 1851773.28 6263022.80



REFERENCE:
 WATER: I790-L, I791-L, I797-L, 30672-13-D
 SEWER: I790-L, I791-L, I796-L, 30672-4-D
 STORM DRAIN: N/A
 GAS: 7-298B, 7-298MI
 ELECTRIC: OVERHEAD
 CABLE TV: OVERHEAD
 TELEPHONE: OVERHEAD
 IMPROVEMENTS: N/A
 100' SCALE/FIELD BOOK: D19S
 THOMAS BROS.: I268-C6

RETIREMENTS:
 4" LATERAL - 4 - CP - 1925

C-08

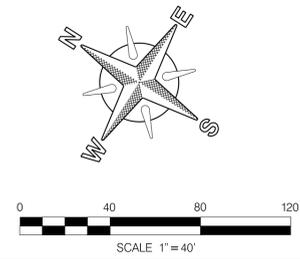
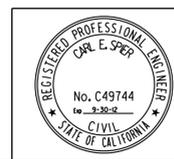
SEWER & WATER GROUP 723
PLUMOSA DRIVE
 650' W/O AZALEA DRIVE TO CHATSWORTH BLVD

CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET 09 OF 27 SHEETS

APPROVED: <i>Carl E. Spier</i>	DATE: 06-20-12	DESIGNED BY: BIJAN SHAKIBA ASSOCIATE ENGINEER
FOR CITY ENGINEER		CHECKED BY: SHEILA GAMUEDA PROJECT ENGINEER
		210-1701 CCS27 COORDINATE
		6262407-1850444 CCS83 COORDINATE

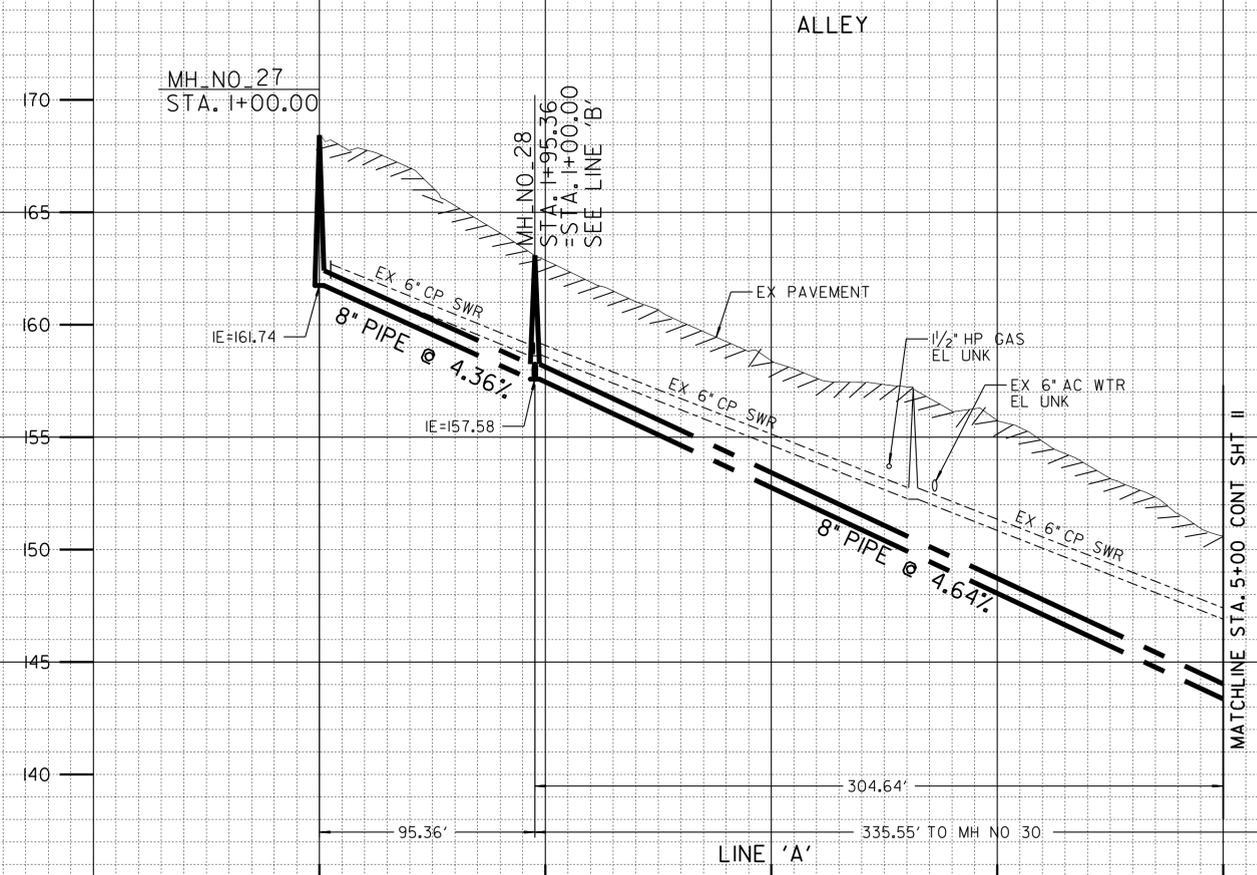
CONTRACTOR _____ DATE STARTED _____
 INSPECTOR _____ DATE COMPLETED _____

32141-09-D

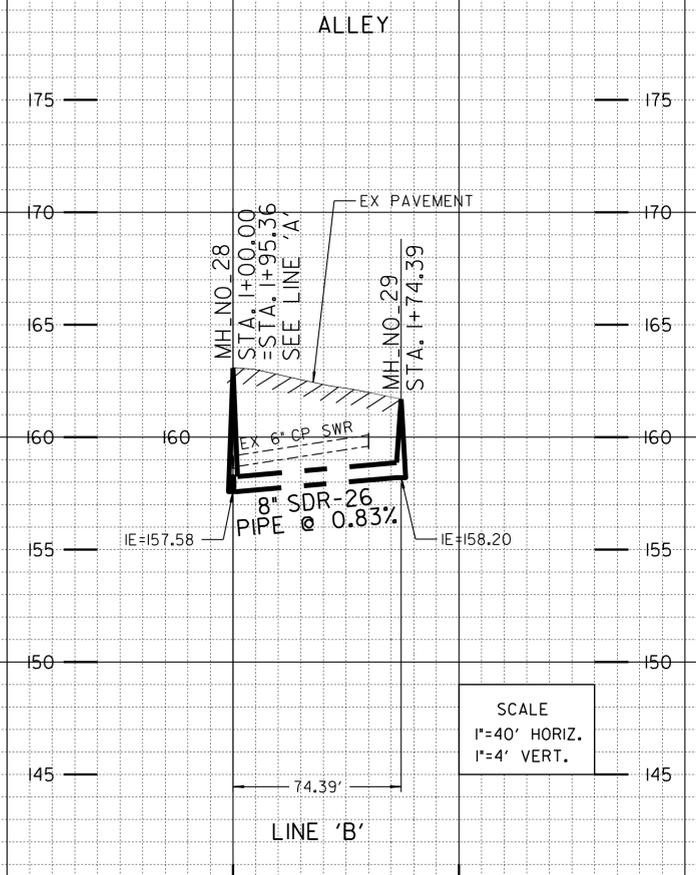


PROPOSED 8" SWR INCLUDED IN THIS CONTRACT. SEE SHT 19

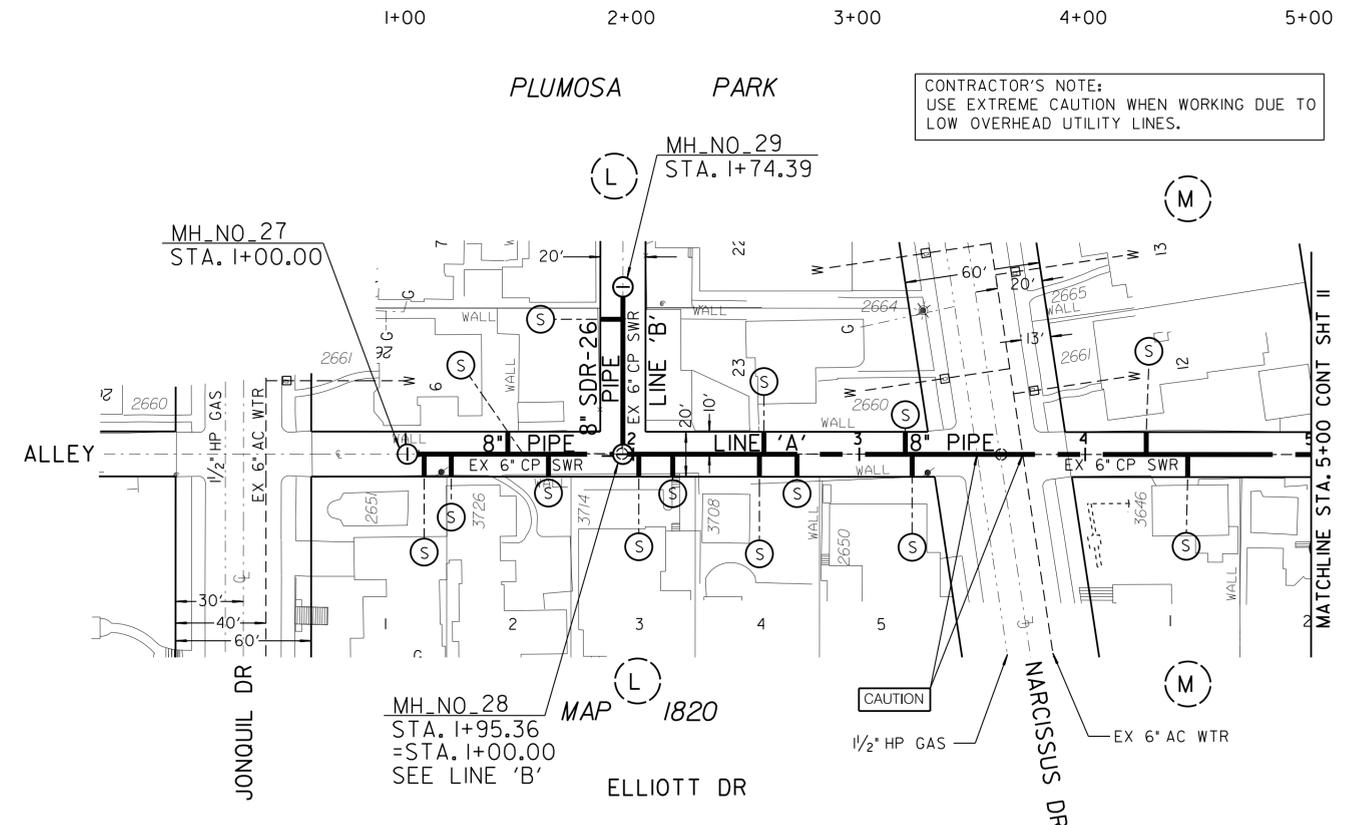
PLUMOSA DRIVE



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



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



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

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
I+00.00	5+00.00	400.00 LF
I+00.00	I+74.39	74.39 LF

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
I+00.00	5+00.00	400.00 LF
I+00.00	I+74.39	74.39 LF

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S)
PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE
MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

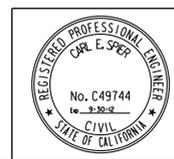
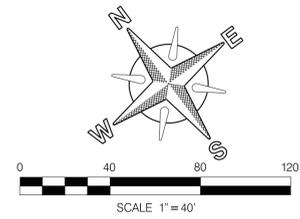
REFERENCE:
WATER: I3678-6-D, I3678-7-D
SEWER: I790-L, I791-L, I796-L
STORM DRAIN: N/A
GAS: 7-298L, 7-298MI
ELECTRIC: OVERHEAD
CABLE TV: OVERHEAD
TELEPHONE: OVERHEAD
IMPROVEMENTS: N/A
100' SCALE/FIELD BOOK: CI9S-C, DI9S-D,
THOMAS BROS.: I268-C6

RETIREMENTS:
6" - CP - 395.00' - 1925
6" - CP - 60.00' - UNK
MH: 4X3, 2, 1925
4" LATERAL - I2 - CP - 1925

COORDINATE REPORT

Sht 10-11
POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
ELEMENT LENGTH (ft) WCB (0'00'00") (STRAIGHT) WCB (0'00'00")
(R=STARTING ANGLE) (R=END ANGLE)
POB 1+00.00 1852393.07 6262197.94
STRAIGHT 95.36 S 53°23'23.45" E
PI 1+95.36 1852336.20 6262274.49
STRAIGHT 335.55 S 53°23'23.88" E
PI 5+30.91 1852136.09 6262543.84 (SEE SHT 11)

Sht 10 Line 'B'
POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
ELEMENT LENGTH (ft) WCB (0'00'00") (STRAIGHT) WCB (0'00'00")
(R=STARTING ANGLE) (R=END ANGLE)
POB 1+00.00 1852336.20 6262274.49
STRAIGHT 74.39 N 36°36'36.38" E
POE 1+74.39 1852395.92 6262318.85



SEWER & WATER GROUP 723
ALLEY BLK L - NO ELLIOTT STREET
72' E/O JONQUIL DRIVE TO 115' E/O NARCISSUS DRIVE
ALLEY BLOCK L - NO ELLIOTT STREET
ALLEY BLOCK L TO 74' NO ALLEY BLOCK

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 10 OF 27 SHEETS

APPROVED: *Carlyne* 06-20-12
FOR CITY ENGINEER DATE

DESIGNED BY: BIJAN SHAKIBA
ASSOCIATE ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SG/CK			

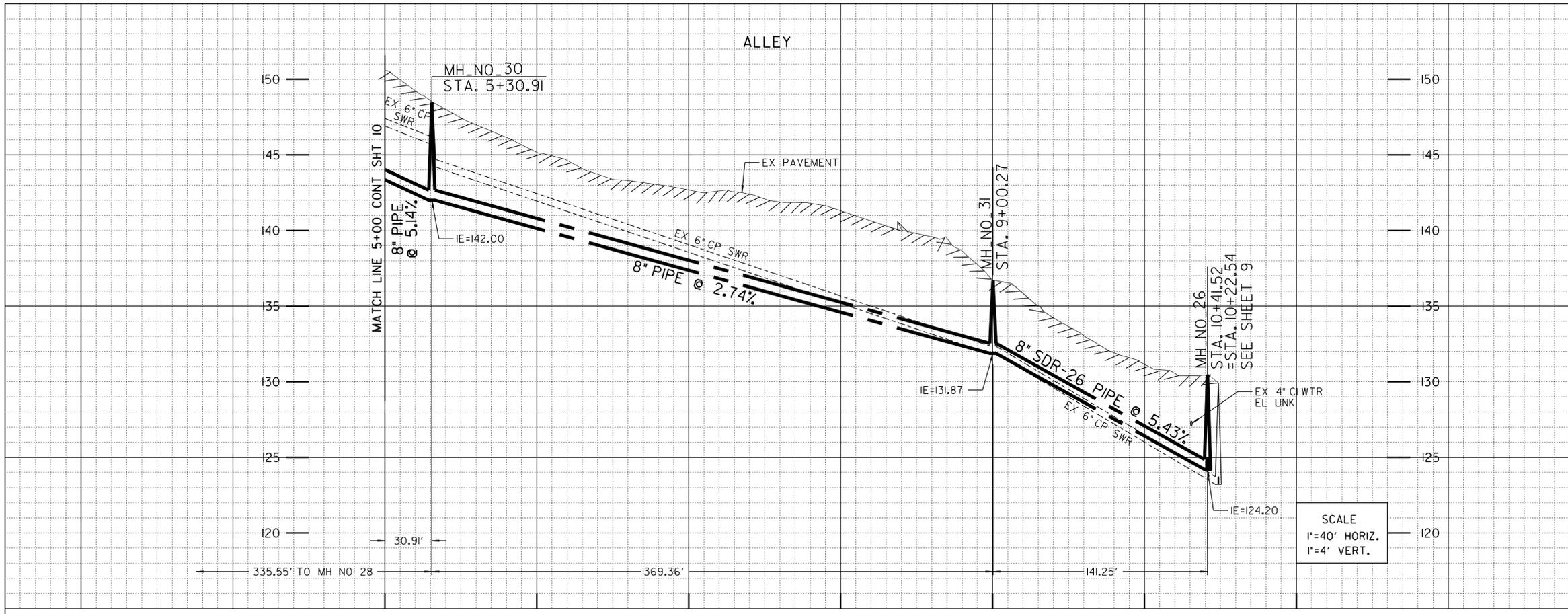
CHECKED BY: SHEILA GAMUJEDA
PROJECT ENGINEER

210-1698
CCS27 COORDINATE
6259407-1850444
CCS83 COORDINATE

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

32141-10-D

C-09



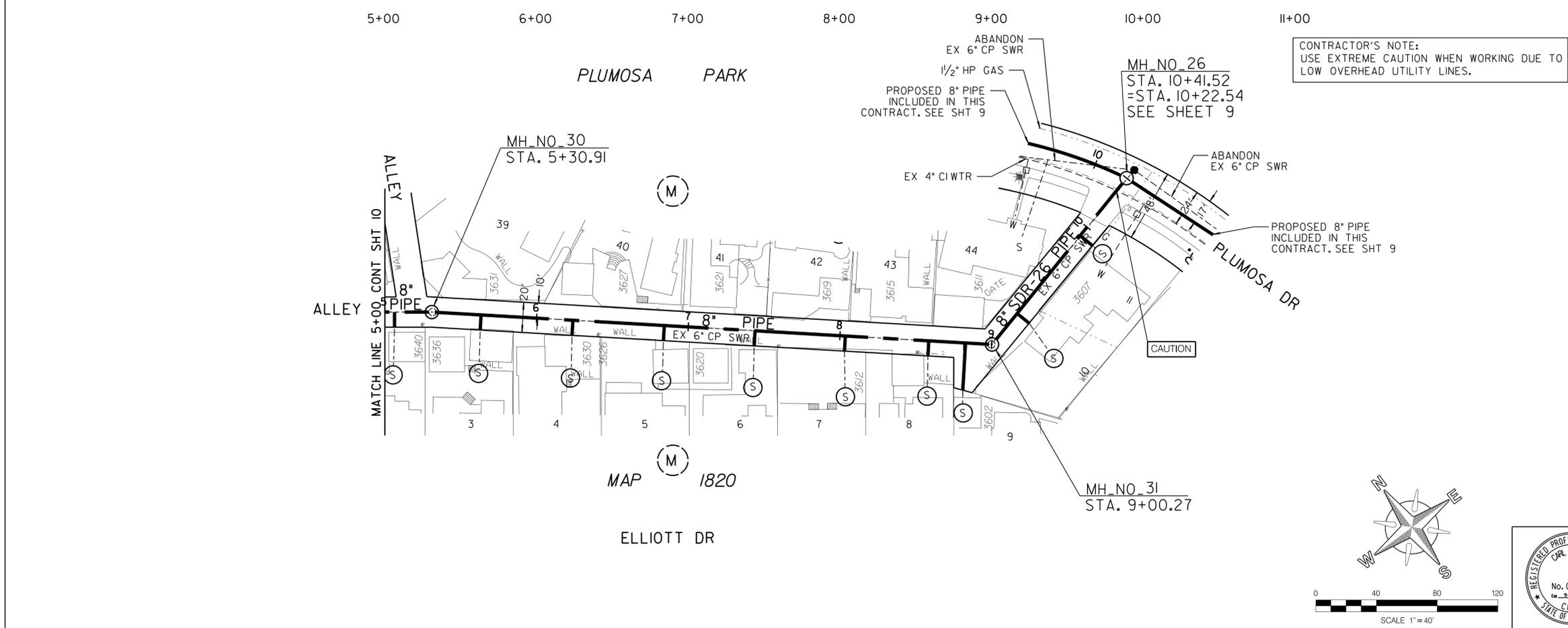
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
5+00.00	10+41.52	541.52 LF
ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
5+00.00	10+41.52	541.52 LF

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

COORDINATE REPORT

Sht 10-11
 POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
 ELEMENT LENGTH (ft) WCB (0°00'00") (STRAIGHT) WCB (0°00'00")
 (R=STARTING ANGLE) (R=END ANGLE)

PI 1+95.36	1852336.20	6262274.49	(SEE SHT 10)
	STRAIGHT 335.55	S 53°23'23.88" E	
PI 5+30.91	1852136.09	6262543.84	
	STRAIGHT 369.36	S 50°05'26.03" E	
PI 9+00.27	1851899.12	6262827.16	
	STRAIGHT 141.25	N 75°25'32.42" E	
POE 10+41.51	1851934.67	6262963.86	



REFERENCE:
 WATER: I790-L, I791-L, I797-L
 SEWER: I790-L, I791-L, I796-L
 STORM DRAIN: N/A
 GAS: 7-298MI
 ELECTRIC: OVERHEAD
 CABLE TV: OVERHEAD
 TELEPHONE: OVERHEAD
 IMPROVEMENTS: N/A
 100' SCALE/FIELD BOOK: D19S-D
 THOMAS BROS.: I268-C6

RETIREMENTS:
 6" - CP - 541.29' - 1925
 MH: 4X3, 2, 1925
 4" LATERAL - 10 - CP - 1925

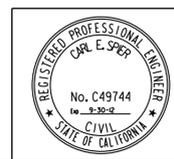
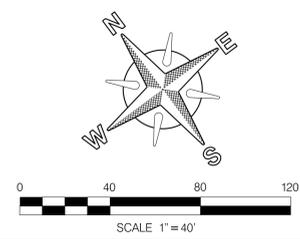
C-10

SEWER & WATER GROUP 723
 ALLEY BLOCK M - NO ELLIOTT STREET
 115' E/O NARCISSUS DRIVE TO PLUMOSA DRIVE

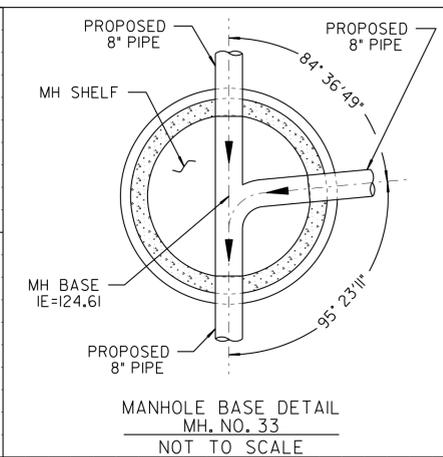
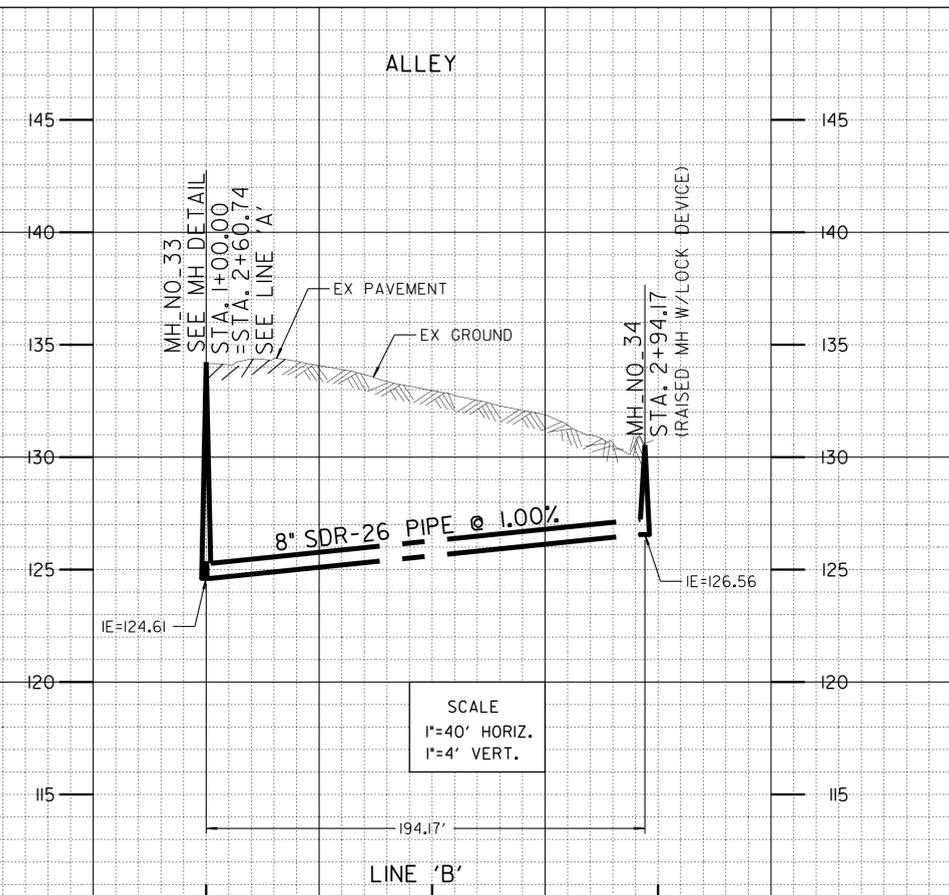
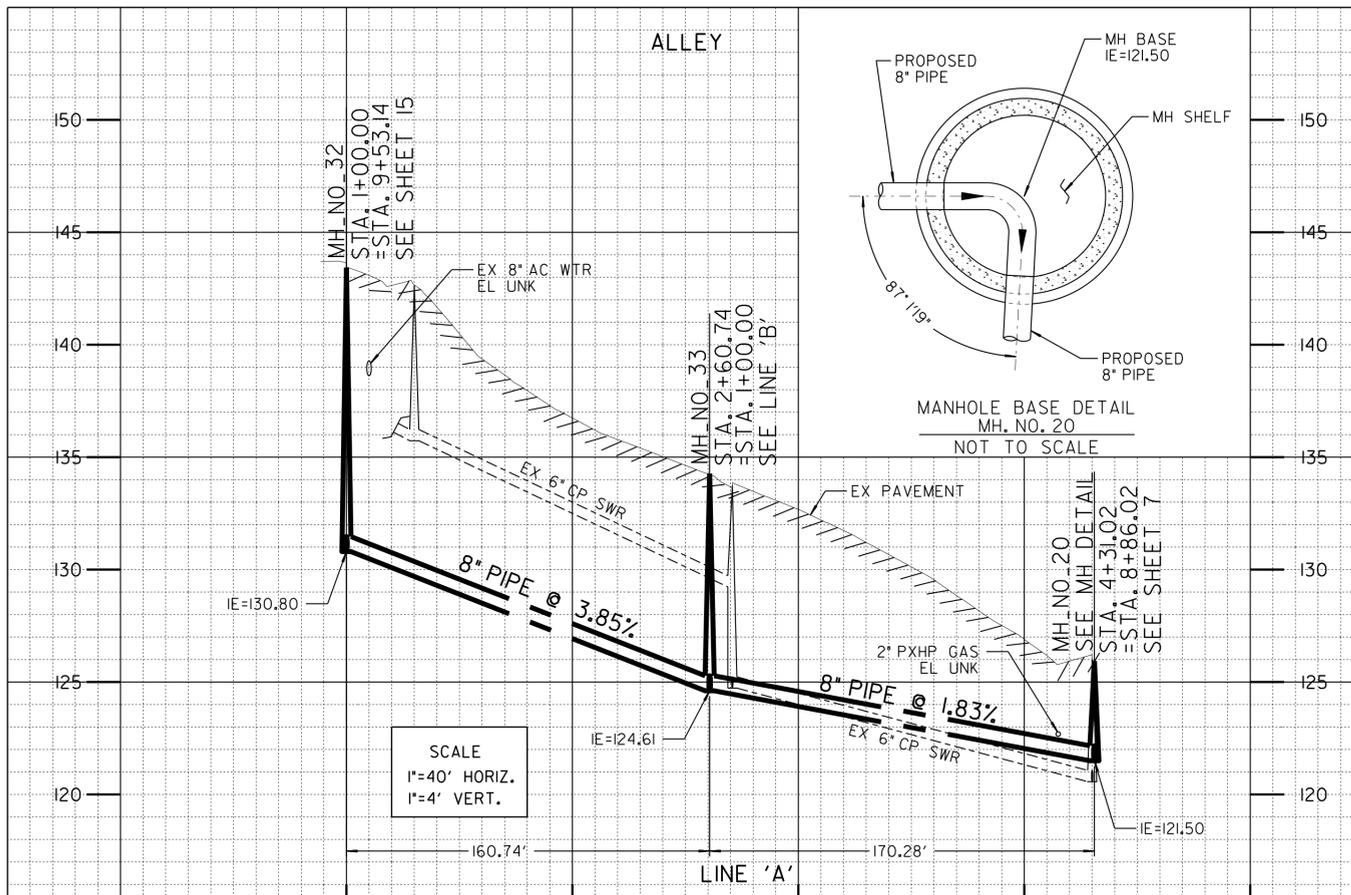
CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET II OF 27 SHEETS

APPROVED: <i>Carlyne</i> FOR CITY ENGINEER	DATE 06-20-12	DESIGNED BY: BIJAN SHAKIBA ASSOCIATE ENGINEER
DESCRIPTION ORIGINAL	BY SG/CK	APPROVED DATE FILMED
CHECKED BY: SHEILA GAMUEDA PROJECT ENGINEER		NO. 210-1701 CCS27 COORDINATE
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED

6262407-1850444
CCS83 COORDINATE
32141-11-D



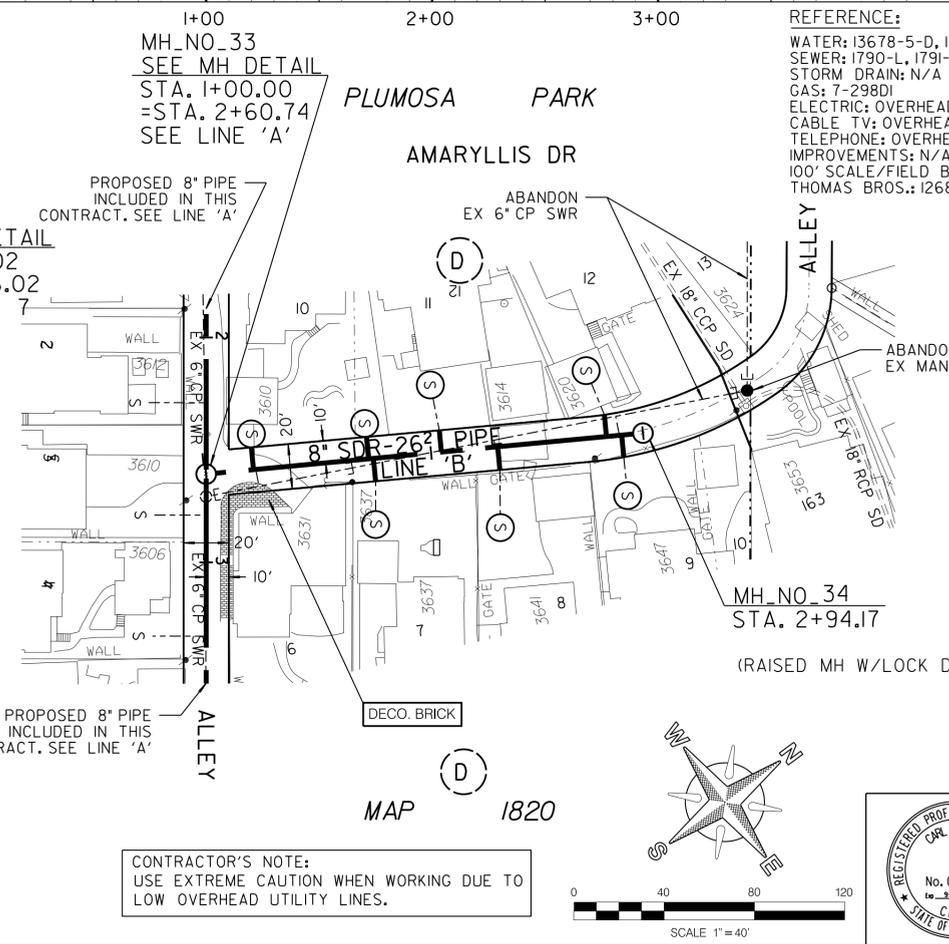
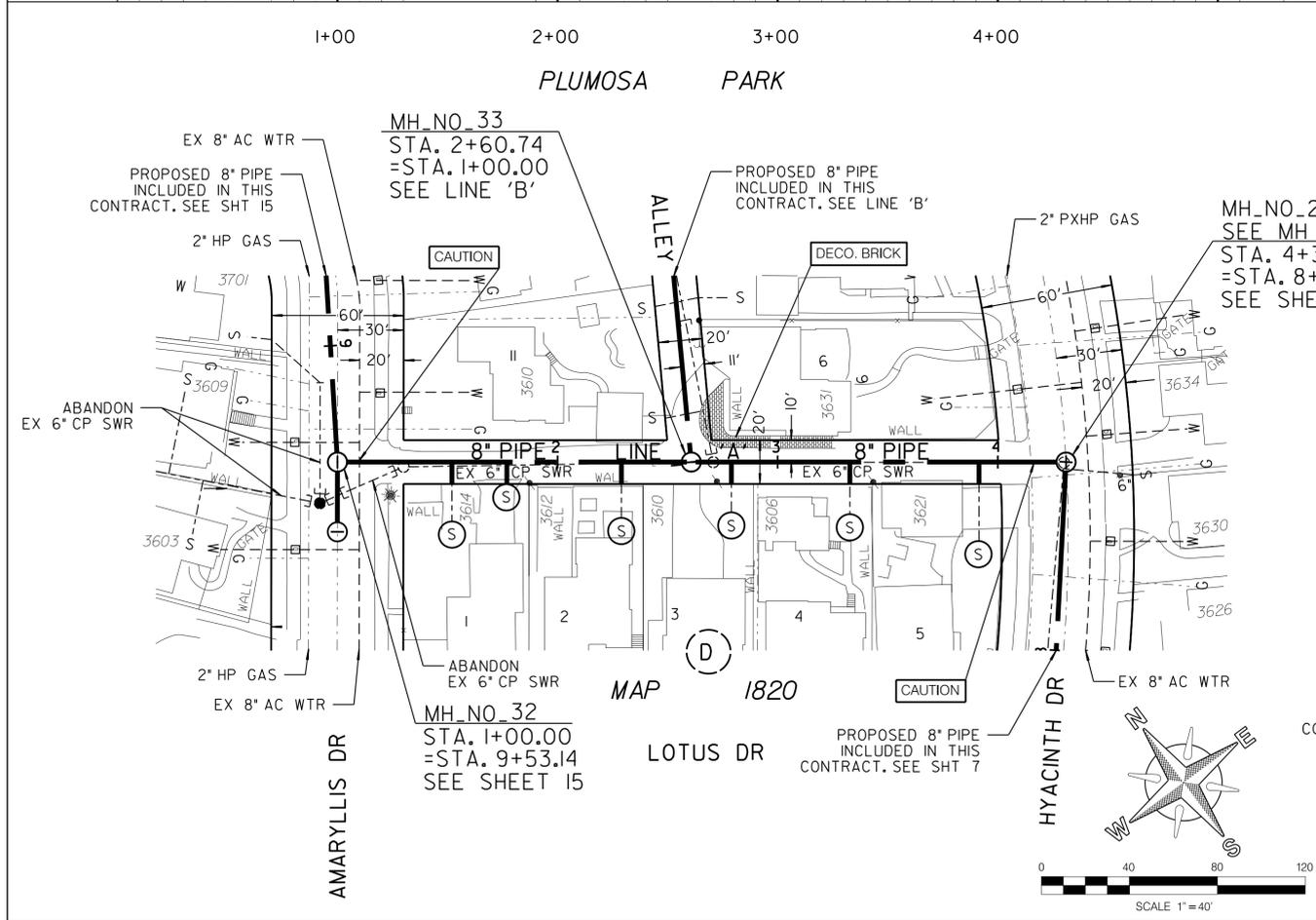
ALLEY BLOCK M - NO ELLIOTT STREET



COORDINATE REPORT

Sht 12 Line 'A'
POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
ELEMENT LENGTH (ft) WCB (0°00'00") (STRAIGHT) WCB (0°00'00")
(R=STARTING ANGLE) (R=END ANGLE)
POB 1+00.00 1852704.10 6263031.20
STRAIGHT 160.74 S 53°26'48.35" E
PI 2+60.74 1852608.37 6263160.33
STRAIGHT 170.28 S 53°26'48.31" E
POE 4+31.02 1852506.95 6263297.12

Sht 12 Line 'B'
POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
ELEMENT LENGTH (ft) WCB (0°00'00") (STRAIGHT) WCB (0°00'00")
(R=STARTING ANGLE) (R=END ANGLE)
POB 1+00.00 1852608.37 6263160.33
STRAIGHT 194.17 N 31°10'00.75" E
POE 2+94.17 1852774.51 6263260.82



REFERENCE:
WATER: I3678-5-D, I3678-8-D
SEWER: I790-L, I791-L, I796-L, 432-D
STORM DRAIN: N/A
GAS: 7-298DI
ELECTRIC: OVERHEAD
CABLE TV: OVERHEAD
TELEPHONE: OVERHEAD
IMPROVEMENTS: N/A
100' SCALE/FIELD BOOK: D19S-A
THOMAS BROS.: I268-C6

RETIREMENTS:
6" - CP - 300.02' - 1925
MH: 4X3, 2, 1925
4" LATERAL - 13 - CP - 1925

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
1+00.00	3+30.00	230.00 LF
1+00.00	2+94.17	194.17 LF

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
1+00.00	3+30.00	230.00 LF
1+00.00	2+94.17	194.17 LF

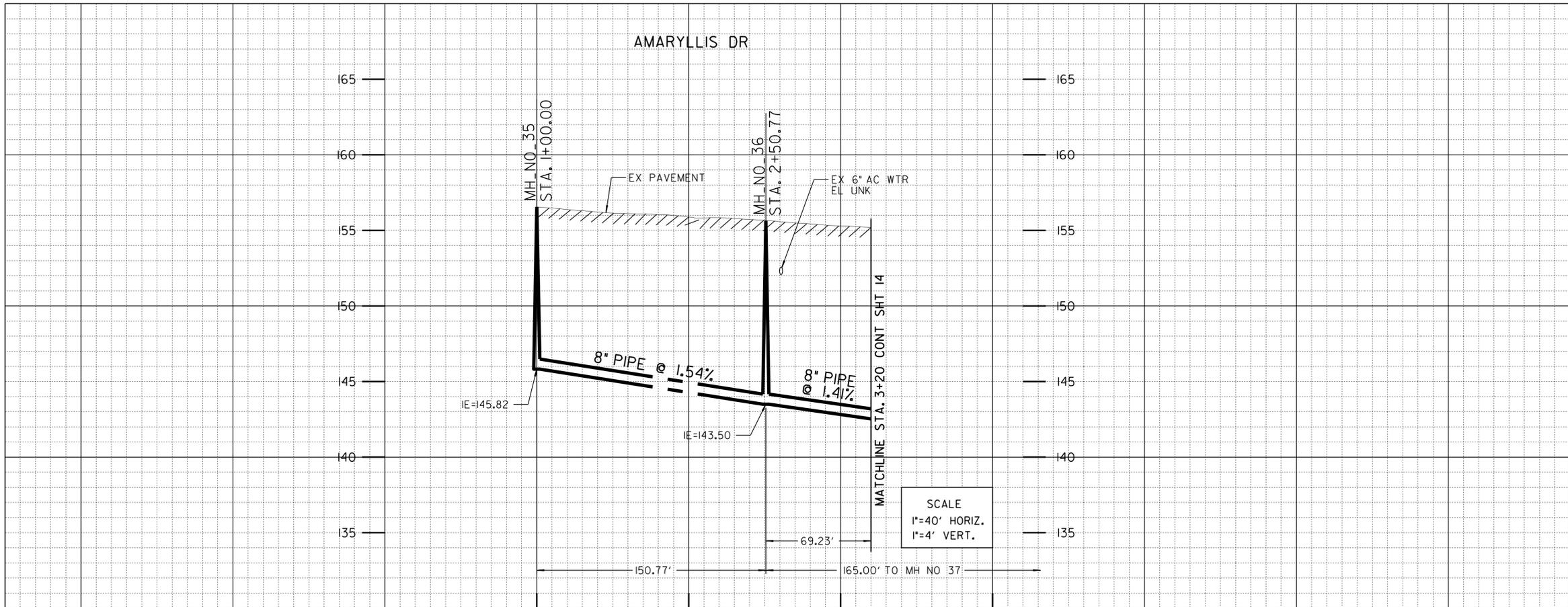
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

SEWER & WATER GROUP 723
ALLEY BLOCK D - NO LOTUS DRIVE
AMARYLLIS DR TO HYACINTH DR
ALLEY BLOCK D - WO HYACINTH DRIVE
ALLEY BLOCK D TO 194' NO ALLEY BLOCK D

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 12 OF 27 SHEETS		WATER WBS B-00050 SEWER WBS B-00462
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER	DATE: 06-20-12	DESIGNED BY: BIJAN SHAKIBA ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	BY: SG/CK	APPROVED: DATE: FILMED:
CONTRACTOR: _____		DATE STARTED: _____
INSPECTOR: _____		DATE COMPLETED: _____



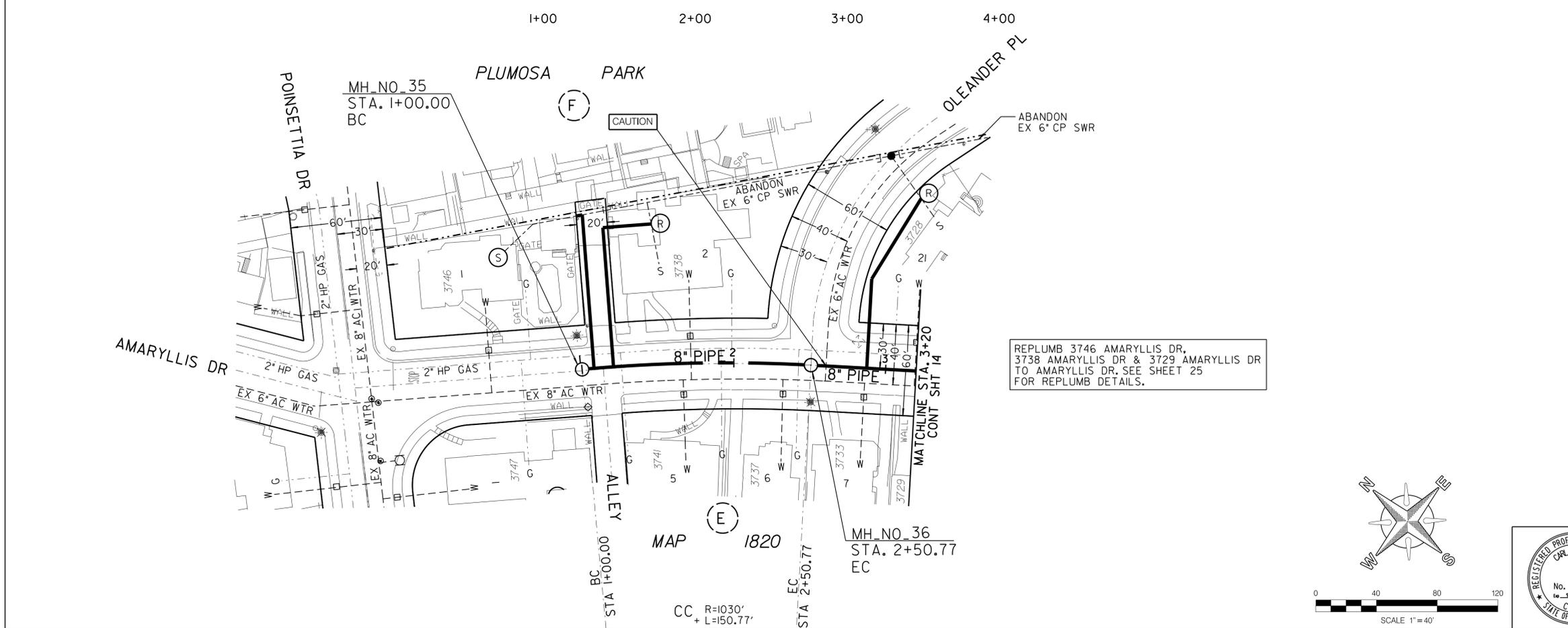
CONTRACTOR'S NOTE:
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.



ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
1+00.00	3+20.00	220.00 LF
ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
1+00.00	3+20.00	220.00 LF
ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.		

COORDINATE REPROT

Sht 13-15
 POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
 ELEMENT LENGTH (ft) WCB (0°00'00") (STRAIGHT) WCB (0°00'00")
 (R=STARTING ANGLE) (R=END ANGLE)
 PC 1+00.00 1853239.03 6262544.61
 R = +1030.00 150.77 S 47°46'05.27" E S 39°22'53.25" E
 PT 2+50.77 1853129.90 6262648.44
 STRAIGHT 165.00 S 39°20'37.23" E
 PC 4+15.76 1853002.30 6262753.04 (SEE SHT 14)



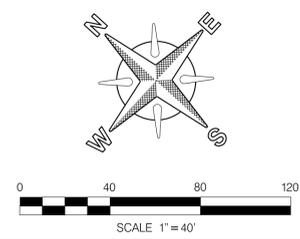
REFERENCE:

WATER: 13678-3-D, 13678-5-D, 13678-5-D, 8461-L
 SEWER: 432-D
 STORM DRAIN: N/A
 GAS: 7-298F, 7-298E2
 ELECTRIC: OVERHEAD
 CABLE TV: OVERHEAD
 TELEPHONE: OVERHEAD
 IMPROVEMENTS: N/A
 100' SCALE/FIELD BOOK: D19S-A
 THOMAS BROS.: 1268-C6

RETIREMENTS:

4" LATERAL - 3 - CP - 1926

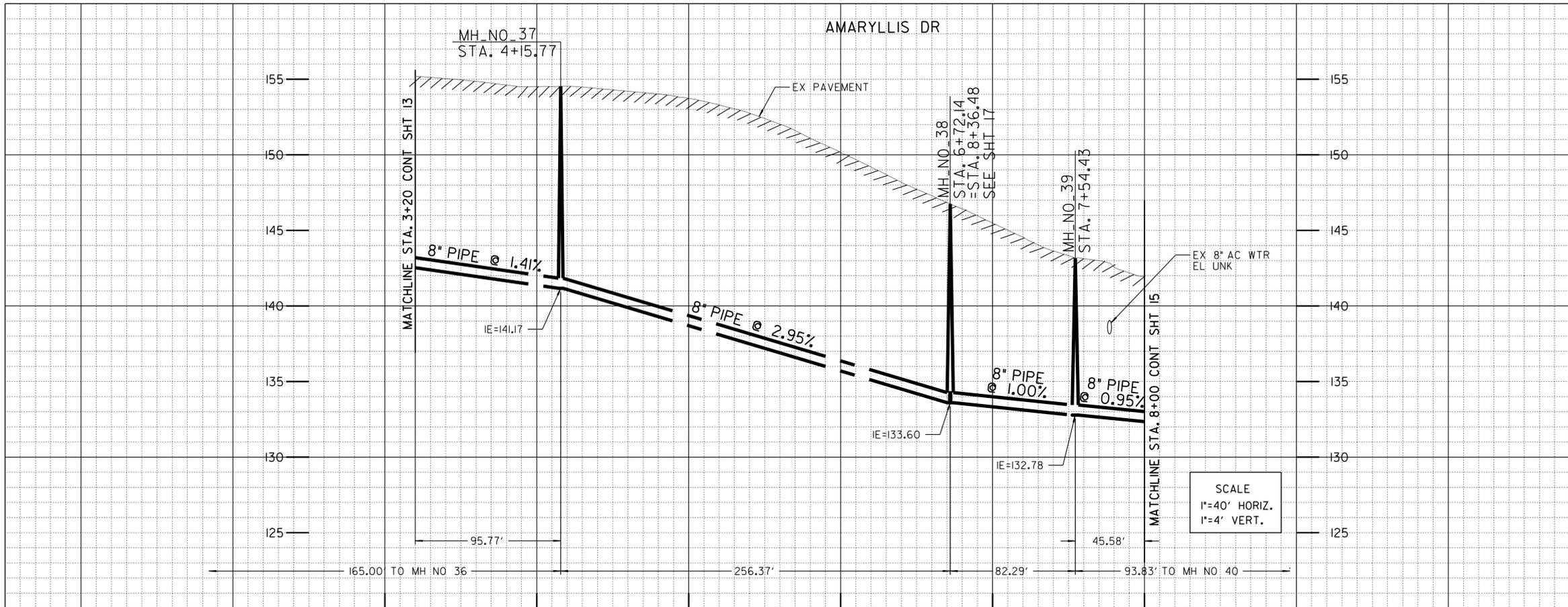
REPLUMB 3746 AMARYLLIS DR,
 3738 AMARYLLIS DR & 3729 AMARYLLIS DR
 TO AMARYLLIS DR. SEE SHEET 25
 FOR REPLUMB DETAILS.



SEWER & WATER GROUP 723				
AMARYLLIS DRIVE				
ALLEY BLK F TO 69' SE OF OLEANDER PL				
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 13 OF 27 SHEETS			WATER WBS B-00050 SEWER WBS B-00462	
APPROVED:	<i>Carl E. Spier</i>	06-20-12	DATE	
FOR CITY ENGINEER				DESIGNED BY: BIJAN SHAKIBA ASSOCIATE ENGINEER
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SG/CK			
				CHECKED BY: SHEILA GAMUEDA PROJECT ENGINEER
				212-1701 CCS27 COORDINATE
				6262407-1852444 CCS83 COORDINATE
CONTRACTOR	DATE STARTED		32141-13-D	
INSPECTOR	DATE COMPLETED			

C-12

AMARYLLIS DRIVE

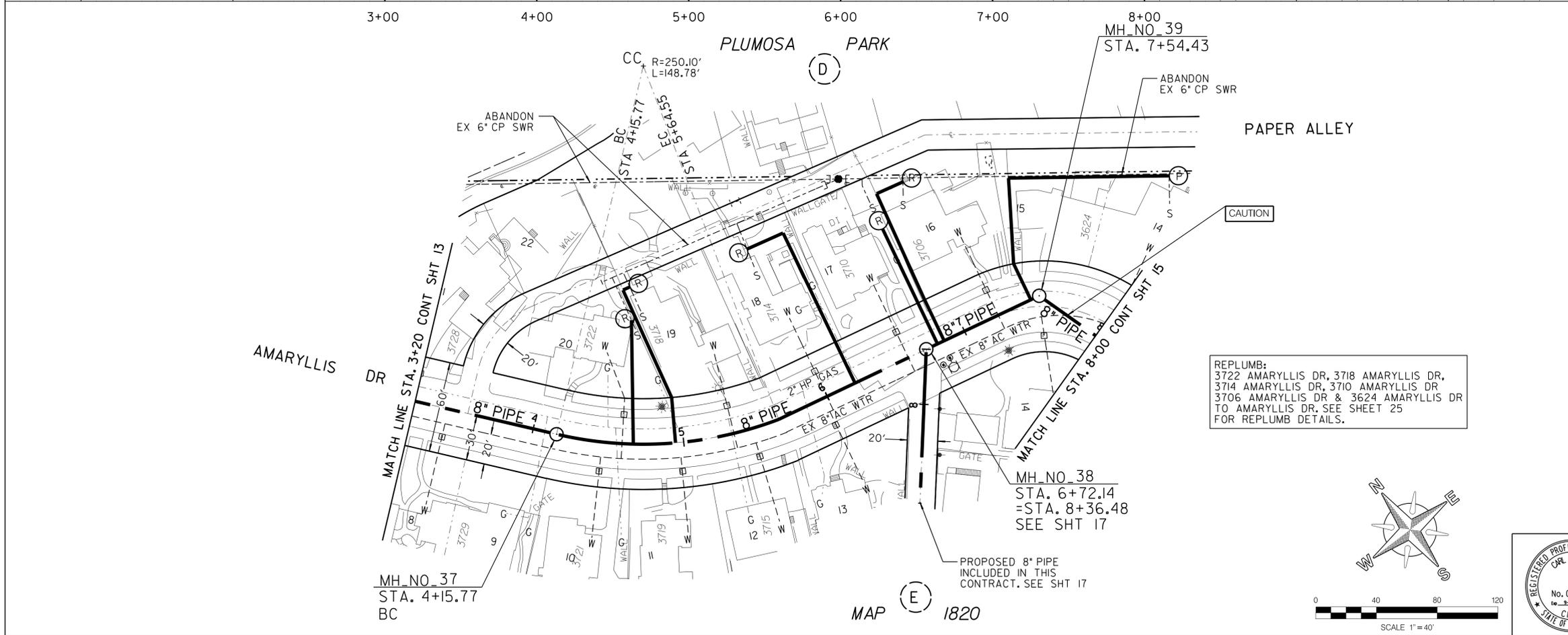


ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
3+20.00	8+00.00	480.00 LF
ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
3+20.00	8+00.00	480.00 LF

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

COORDINATE REPORT

Sht 13-15
 POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
 ELEMENT LENGTH (ft) WCB (0°00'00") (STRAIGHT) WCB (0°00'00")
 (R=STARTING ANGLE) (R=END ANGLE)
 PT 2+50.77 1853129.90 6262648.44 (SEE SHT 13)
 STRAIGHT 165.00 S 39°20'37.23" E
 PC 4+15.76 1853002.30 6262753.04
 R = -250.10 148.78 S 39°19'14.11" E S 73°24'13.30" E
 PT 5+64.54 1852921.10 6262875.09
 STRAIGHT 107.59 S 78°02'53.61" E
 PI 6+72.13 1852898.82 6262980.35
 STRAIGHT 82.29 S 77°56'21.24" E
 PI 7+54.42 1852881.62 6263060.82
 STRAIGHT 93.83 S 17°08'32.09" E
 PI 8+48.25 1852791.96 6263088.48 (SEE SHT 15)

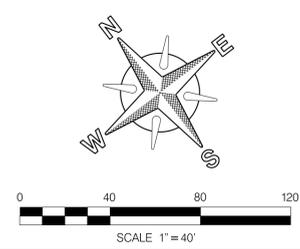
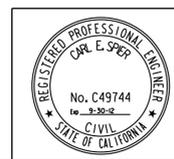


REFERENCE:
 WATER: I3678-5-D
 SEWER: 432-D
 STORM DRAIN: N/A
 GAS: 7-29802
 ELECTRIC: OVERHEAD
 CABLE TV: OVERHEAD
 TELEPHONE: OVERHEAD
 IMPROVEMENTS: N/A
 100' SCALE/FIELD BOOK: D19S-A
 THOMAS BROS.: I268-C6

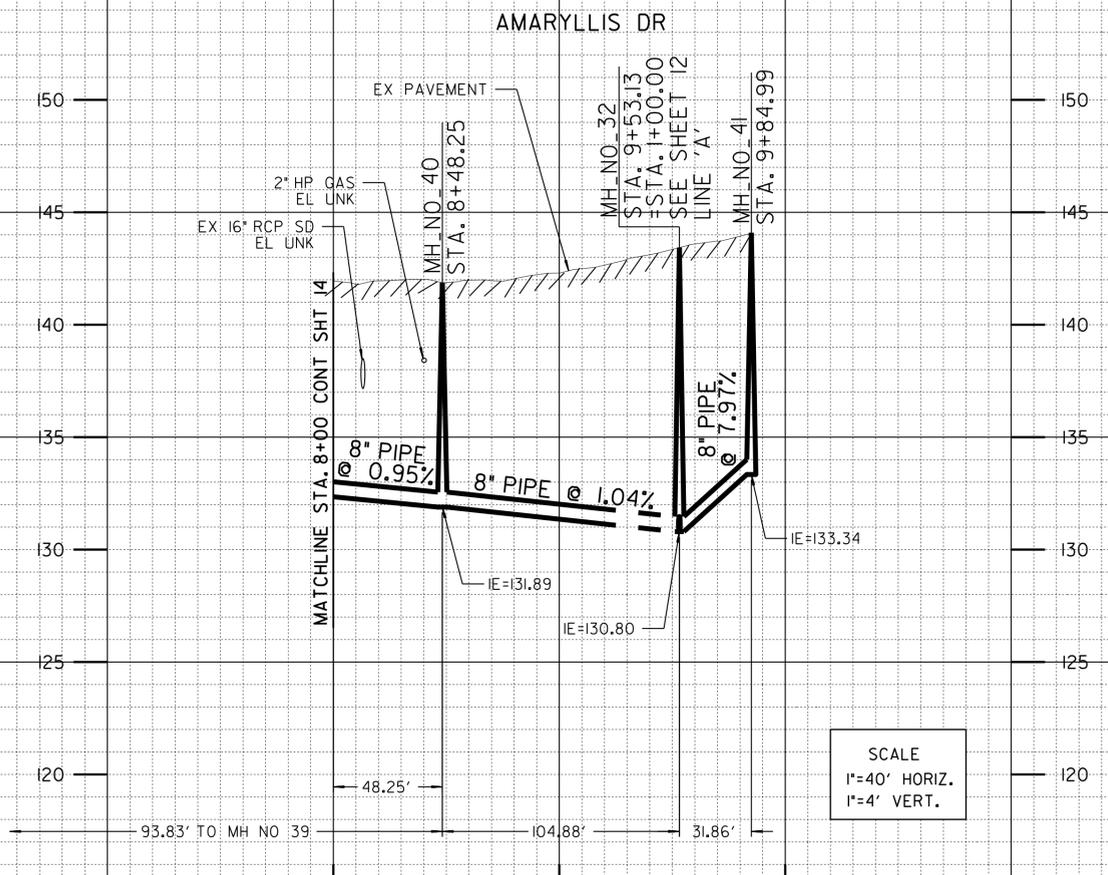
RETIREMENTS:
 MH: 4X3, I, 1926
 4" LATERAL - 5 - CP - 1926

C-13

SEWER & WATER GROUP 723			
AMARYLLIS DRIVE			
69' SE OF OLEANDER PLACE TO 98' E/O ALLEY BLOCK E			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 14 OF 27 SHEETS		WATER WBS B-00050 SEWER WBS B-00462	
APPROVED: <i>Carlyne</i> FOR CITY ENGINEER	DATE 06-20-12	DESIGNED BY BIJAN SHAKIBA ASSOCIATE ENGINEER	CHECKED BY SHEILA GAMUEDA PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY SG/CK	APPROVED	DATE 212-1701
			CCS87 COORDINATE
			6262407-1852444
			CCS88 COORDINATE
CONTRACTOR	DATE STARTED	32141-14-D	
INSPECTOR	DATE COMPLETED		



AMARYLLIS DRIVE

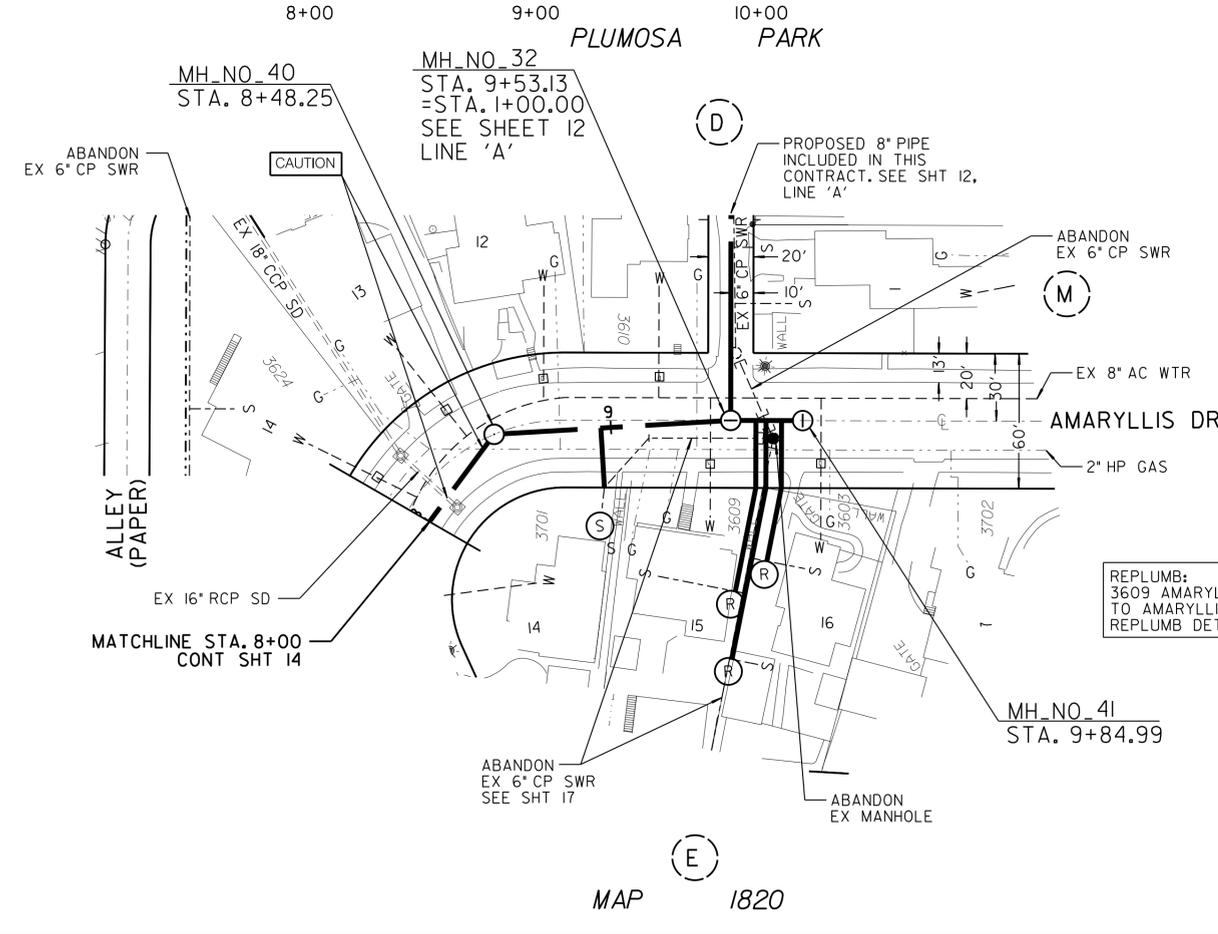


ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
8+00.00	9+85.00	185.00 LF
ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
8+00.00	9+85.00	185.00 LF

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

COORDINATE REPORT

Sht 13-15
 POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
 ELEMENT LENGTH (ft) WCB (0°00'00") (STRAIGHT) WCB (0°00'00")
 (R=STARTING ANGLE) (R=END ANGLE)
 PI 7+54.42 1852881.62 6263060.82 (SEE SHT 14)
 STRAIGHT 93.83 S 17°08'32.09" E
 PI 8+48.25 1852791.96 6263088.48
 STRAIGHT 104.88 S 33°05'58.06" W
 PI 9+53.13 1852704.10 6263031.20
 STRAIGHT 31.86 S 36°38'27.91" W
 POE 9+84.99 1852678.54 6263012.19

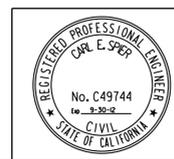
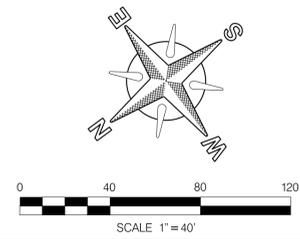


REFERENCE:
 WATER: 13678-5-D
 SEWER: 1791-L, 1796-L, 432-D
 STORM DRAIN: 1791-L, 1795-L, 4517-B
 GAS: 7-298E1
 ELECTRIC: OVERHEAD
 CABLE TV: OVERHEAD
 TELEPHONE: OVERHEAD
 IMPROVEMENTS: N/A
 100' SCALE/FIELD BOOK: D19S-A
 THOMAS BROS.: 1268-C6

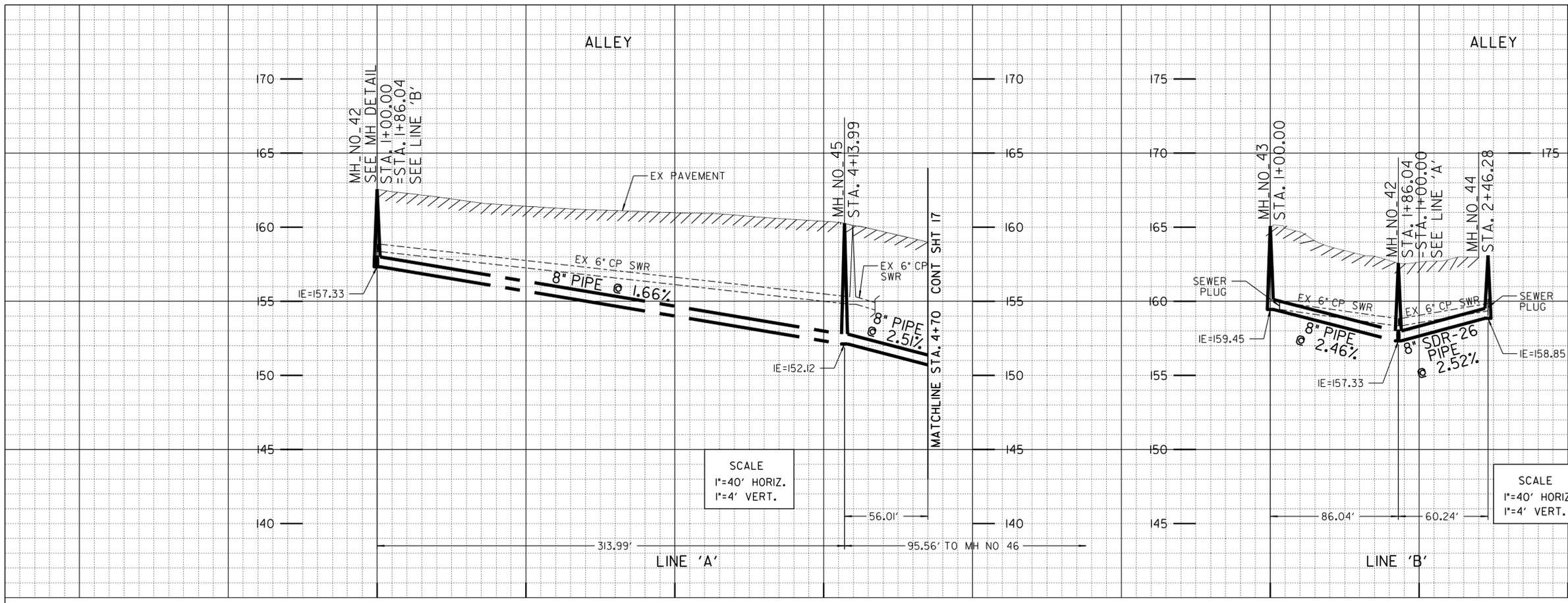
RETIREMENTS:
 4" LATERAL - 3 - CP - 1925
 4" LATERAL - 1 - CP - 1926

C-14

SEWER & WATER GROUP 723			
AMARYLLIS DRIVE			
STA. 8+00.00 TO 144' NE OF LOTUS DR			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 15 OF 27 SHEETS		WATER WBS B-00050 SEWER WBS B-00462	
APPROVED: <i>Carl D. ...</i> FOR CITY ENGINEER	DATE 06-20-12	DRAWN BY: BIJAN SHAKIBA ASSOCIATE ENGINEER	
DESCRIPTION ORIGINAL	BY SG/CK	APPROVED	DATE FILMED
CHECKED BY: SHEILA GAMUEDA PROJECT ENGINEER		212-1701 CCS27 COORDINATE	
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		32141-15-D	



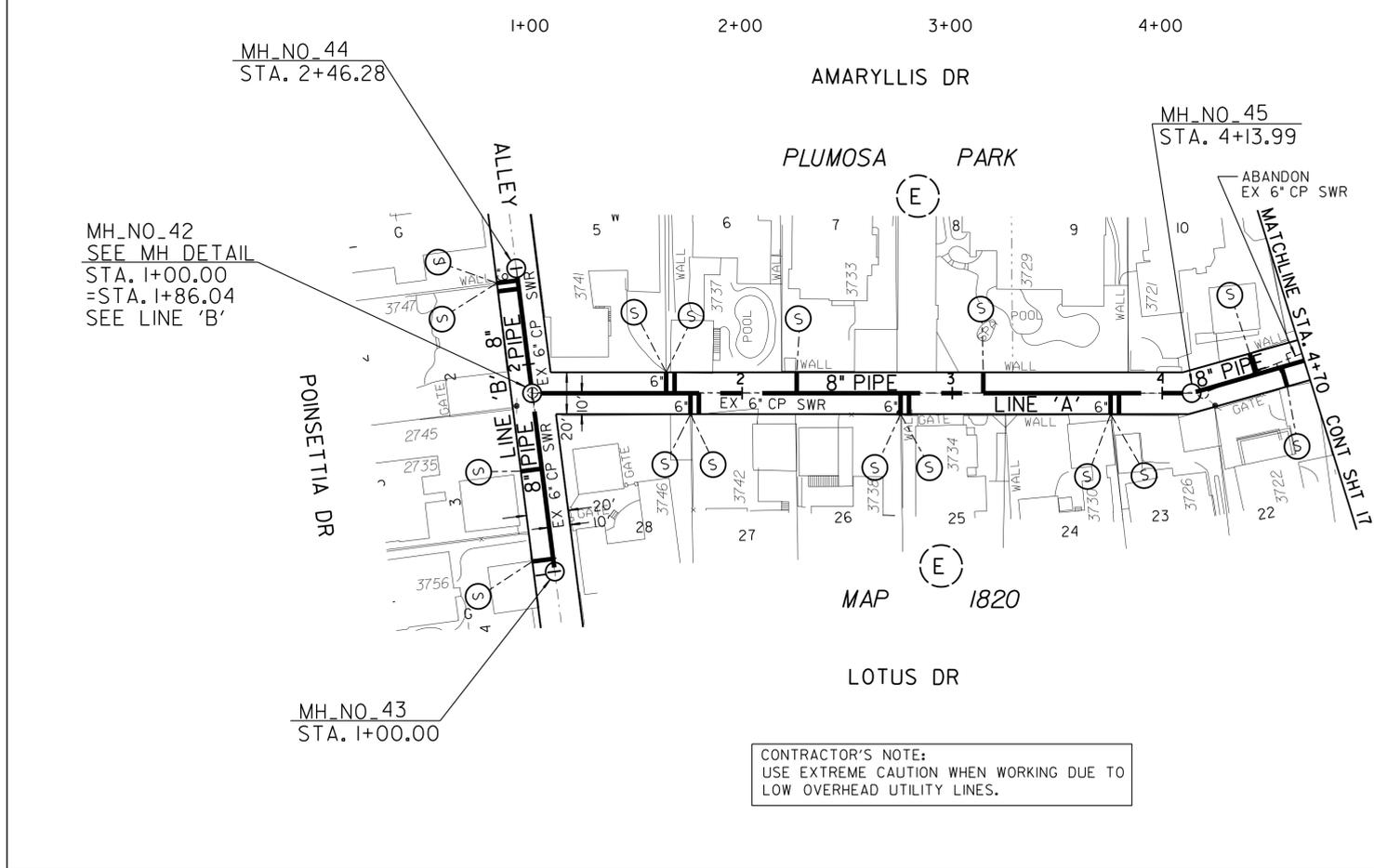
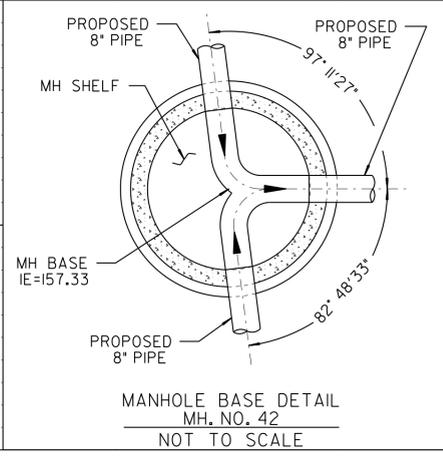
AMARYLLIS DRIVE



ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
1+00.00	4+70.00	370.00 LF
1+00.00	2+46.28	146.28 LF

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
1+00.00	4+70.00	370.00 LF
1+00.00	2+46.28	146.28 LF

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.



COORDINATE REPORT

Sht 16-17
 POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
 ELEMENT LENGTH (ft) WCB (0'00'00") (STRAIGHT) WCB (0'00'00")
 (R=STARTING ANGLE) (R=END ANGLE)

POB 1+00.00 1853119.76 6262452.10
 STRAIGHT 313.99 S 39°41'20.55" E

PI 4+13.99 1852878.13 6262652.63
 STRAIGHT 95.56 S 55°50'49.81" E

PI 5+09.56 1852824.48 6262731.71 (SEE SHT 17)

Sht 16 Line 'B'
 POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
 ELEMENT LENGTH (ft) WCB (0'00'00") (STRAIGHT) WCB (0'00'00")
 (R=STARTING ANGLE) (R=END ANGLE)

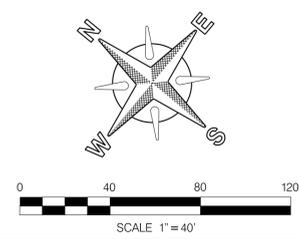
POB 1+00.00 1853056.96 6262393.29
 STRAIGHT 86.04 N 43°07'12.29" E

PI 1+86.04 1853119.76 6262452.10
 STRAIGHT 60.24 N 43°07'12.26" E

POE 2+46.27 1853163.72 6262493.28

REFERENCE:
 WATER: N/A
 SEWER: I791-L, I792-L, I796-1
 STORM DRAIN: N/A
 GAS: N/A
 ELECTRIC: N/A
 CABLE TV: N/A
 TELEPHONE: N/A
 IMPROVEMENTS: N/A
 100' SCALE/FIELD BOOK: D19S-A
 THOMAS BROS.: I268-C6

RETIREMENTS:
 6" - CP - 489.03' - 1925
 MH: 4X3, 2, 1925
 4" LATERAL - 4 - CP - 1925
 6" LATERAL - 4 - CP - 1925



C-15

SEWER & WATER GROUP 723
 ALLEY BLOCK E - SO AMARYLLIS DRIVE
 ALLEY BLOCK E E/O POINSETTIA DR TO 370' SE OF ALLEY
 ALLEY BLOCK E - E/O POINSETTIA DRIVE
 66' NO LOTUS DRIVE TO 95' SE OF AMARYLLIS DRIVE

CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET 16 OF 27 SHEETS

APPROVED FOR CITY ENGINEER	DATE	WATER WBS	SEWER WBS
<i>Carl Spurr</i>	06-20-12	B-00050	B-00462

DESIGNED BY: BIJAN SHAKIBA
 ASSOCIATE ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SG/CK			

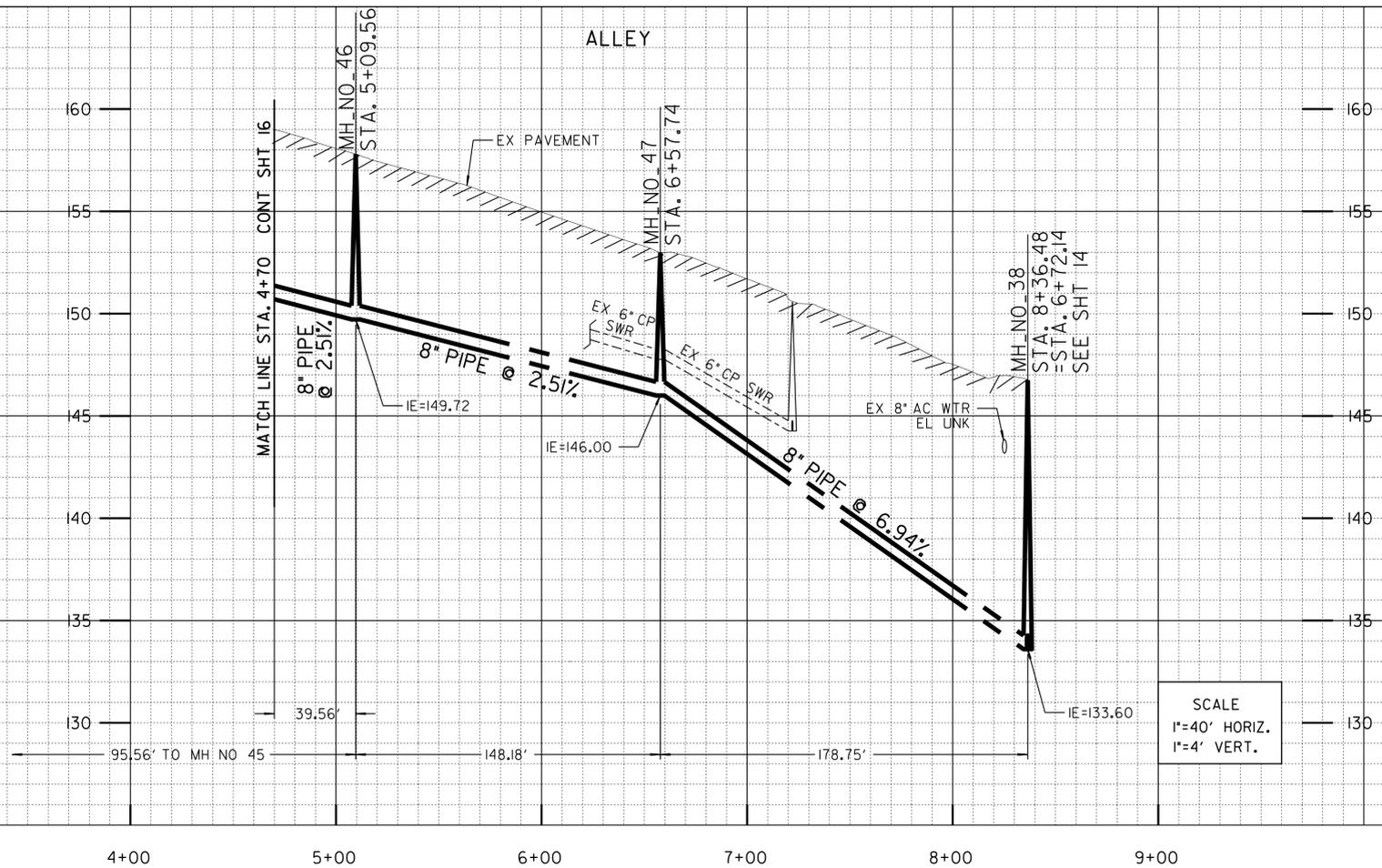
CHECKED BY: SHEILA GAMUEDA
 PROJECT ENGINEER

212-1701
 CCS27 COORDINATE
 CCS83 COORDINATE

CONTRACTOR: _____ DATE STARTED: _____
 INSPECTOR: _____ DATE COMPLETED: _____

32141-16-D

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

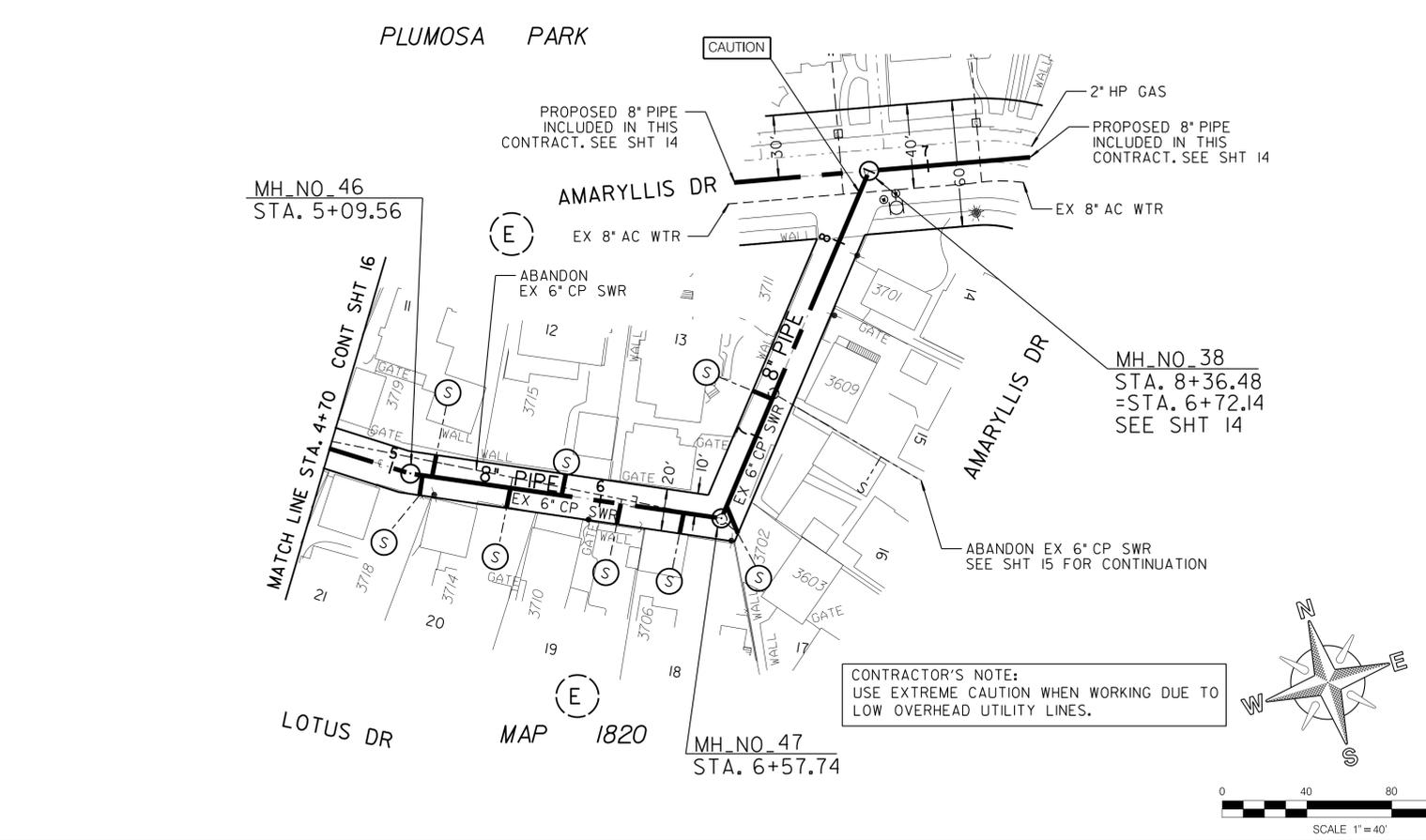


ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
4+70.00	8+36.48	366.48 LF
ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LENGTH
4+70.00	8+36.48	366.48 LF

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE MITIGATION AND MONITORING PROGRAM (MMRP) FOR THE PROJECT.

COORDINATE REPORT

Sht 16-17
 POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
 ELEMENT LENGTH (ft) WCB (0°00'00") (STRAIGHT) WCB (0°00'00")
 (R=STARTING ANGLE) (R=END ANGLE)
 PI 4+13.99 1852878.13 6262652.63 (SEE SHT 16)
 STRAIGHT 95.56 S 55°50'49.81" E
 PI 5+09.56 1852824.48 6262731.71
 STRAIGHT 148.18 S 64°51'58.75" E
 PI 6+57.74 1852761.54 6262865.86
 STRAIGHT 178.75 N 39°49'42.62" E
 POE 8+36.49 1852898.82 6262980.35



REFERENCE:
 WATER: I3678-5-D
 SEWER: I792-L, I796-L, 432-D
 STORM DRAIN: N/A
 GAS: 7-29802
 ELECTRIC: OVERHEAD
 CABLE TV: OVERHEAD
 TELEPHONE: OVERHEAD
 IMPROVEMENTS: N/A
 100' SCALE/FIELD BOOK: DI9S-A
 THOMAS BROS.: I268-C6

RETIREMENTS:
 6" - CP - 64.41' - 1925
 MH: 4X3, I, 1925
 4" LATERAL - 8 - CP - 1925

C-16

SEWER & WATER GROUP 723
ALLEY SOUTH OF AMARYLLIS DRIVE
 370' SE OF ALLEY BLOCK E TO AMARYLLIS DR

CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET 17 OF 27 SHEETS

APPROVED: *Carl E. Spier* 06-20-12
 FOR CITY ENGINEER DATE

DESIGNED BY: BIJAN SHAKIBA
 ASSOCIATE ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SG/CK			

CHECKED BY: SHEILA GAMUEDA
 PROJECT ENGINEER

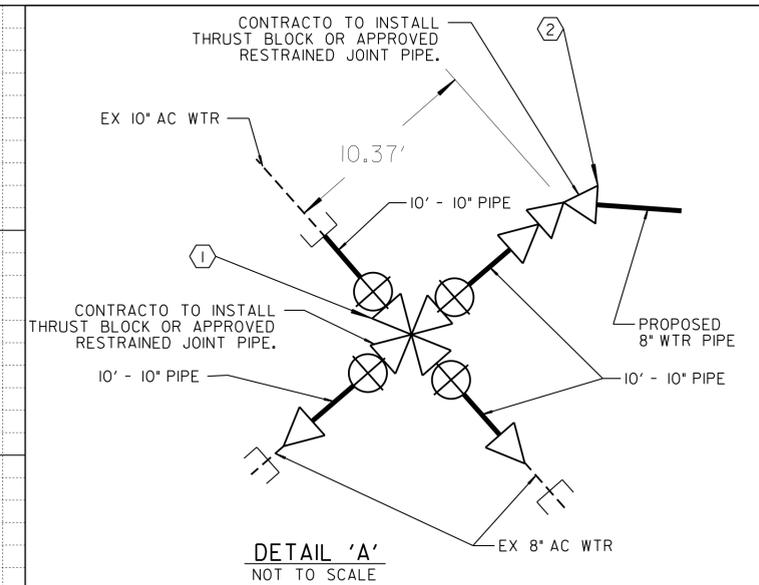
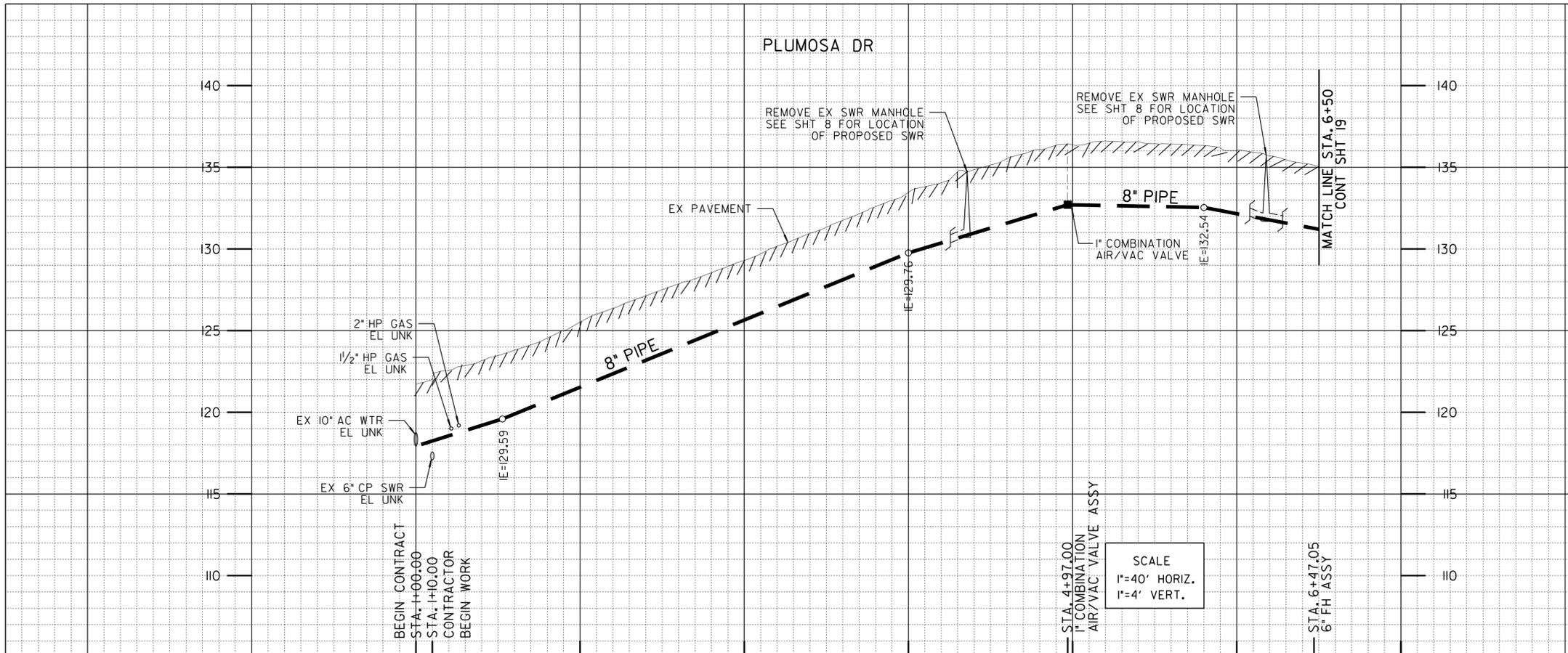
212-1701
 CCS27 COORDINATE

CCS83 COORDINATE

CONTRACTOR: _____ DATE STARTED: _____
 INSPECTOR: _____ DATE COMPLETED: _____

32141-17-D

ALLEY SOUTH OF AMARYLLIS DRIVE



COORDINATE REPORT

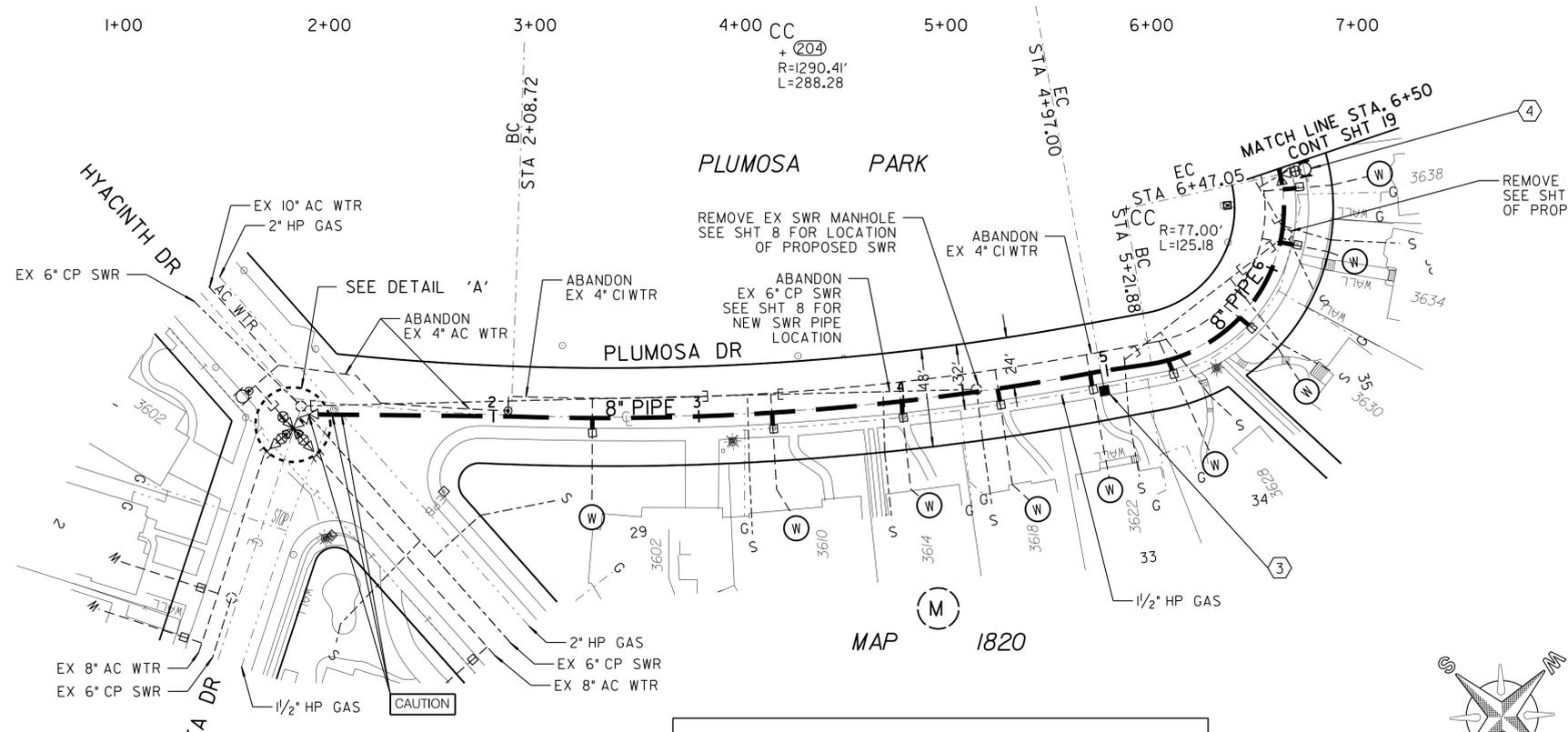
Sht 18-19
 POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
 ELEMENT LENGTH (ft) WCB (0'00'00") (STRAIGHT) WCB (0'00'00")
 (R=STARTING ANGLE) (R=END ANGLE)
 POB 1+00.00 1851969.39 6263154.16
 STRAIGHT 10.37 N 83°57'13.51" W
 PI 1+10.37 1851970.48 6263143.85
 STRAIGHT 98.35 N 42°00'09.50" W
 PC 2+08.72 1852043.57 6263078.04
 R = -1290.41 288.28 N 40°37'20.33" W N 53°25'20.80" W
 PT 4+97.00 1852239.69 6262867.56
 STRAIGHT 24.88 N 50°52'16.69" W
 PC 5+21.88 1852255.39 6262848.26
 R = -77.00 125.18 N 51°57'21.98" W S 34°54'03.77" W
 PCC 6+47.05 1852238.80 6262737.66
 R = -77.00 121.10 S 34°54'03.77" W S 55°12'46.45" E
 PRC 7+68.16 1852131.51 6262756.89 (SEE SHT 19)

① BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR
 STA 1+00.00
 TEMPORARY CUT AND PLUG
 EX 8" & 10" AC WTR
 REMOVE EX 10"x8" TEE & VALVES
 1- 10"x10" CROSS (F)
 4 - 10" VALVE (F, MJ) AHD, RT, LT, BK
 1- 10"x8" REDUCER (MJ, F) AHD
 2 - 10"x8" REDUCER (MJ, MJ) BK, RT
 4 - 10" 10" PIPE
 RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.

② BY CONTRACTOR FURNISH AND INSTALL
 STA 1+10.37
 1- 8' 45" BEND (F, MJ)

③ BY CONTRACTOR FURNISH AND INSTALL
 STA 4+97.00
 1- 1" COMBINATION AIR/VACUUM VALVE ASSY, (F)

④ BY CONTRACTOR FURNISH AND INSTALL
 STA 6+47.05
 1- 8" X 6" TEE (MJ, MJ, F)
 1- 6" FH ASSY AND MARKER, RT



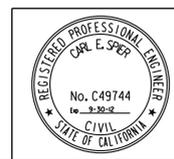
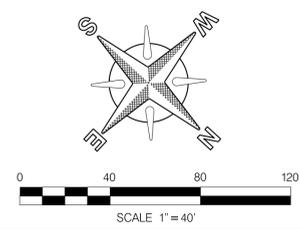
CONTRACTOR'S NOTE:
 STA 5+21 TO STA 6+50, USE RESTRAINED JOINT PIPE.

PROPOSED 8" SWR INCLUDED IN THIS CONTRACT. SEE SHT 8

CONTRACTOR'S NOTE:
 PLUMOSA DRIVE SHALL BE HIGHLIGHTED BY CITY FORCES PRIOR TO BEGINNING OF CONSTRUCTION. CITY TO FURNISH ALL HIGHLIGHTING MATERIALS AND TRANSFER SERVICES.

REFERENCE:
 WATER: I790-L, I791-L, 1997-L, I2191-3-D
 SEWER: I790-L, I796-L
 STORM DRAIN: N/A
 GAS: 7-298M, 7-298M2
 ELECTRIC: OVERHEAD
 CABLE TV: OVERHEAD
 TELEPHONE: OVERHEAD
 IMPROVEMENTS: N/A
 100' SCALE/FIELD BOOK: D19S-D
 THOMAS BROS.: I268-C6
 HGL: 390 - UNIVERSITY HEIGHTS

RETIREMENTS:
 4" - CI - 400.03' - 1925
 4" - AC - 118.20' - 1966
 1" SERVICE - 9 - CI - 1925

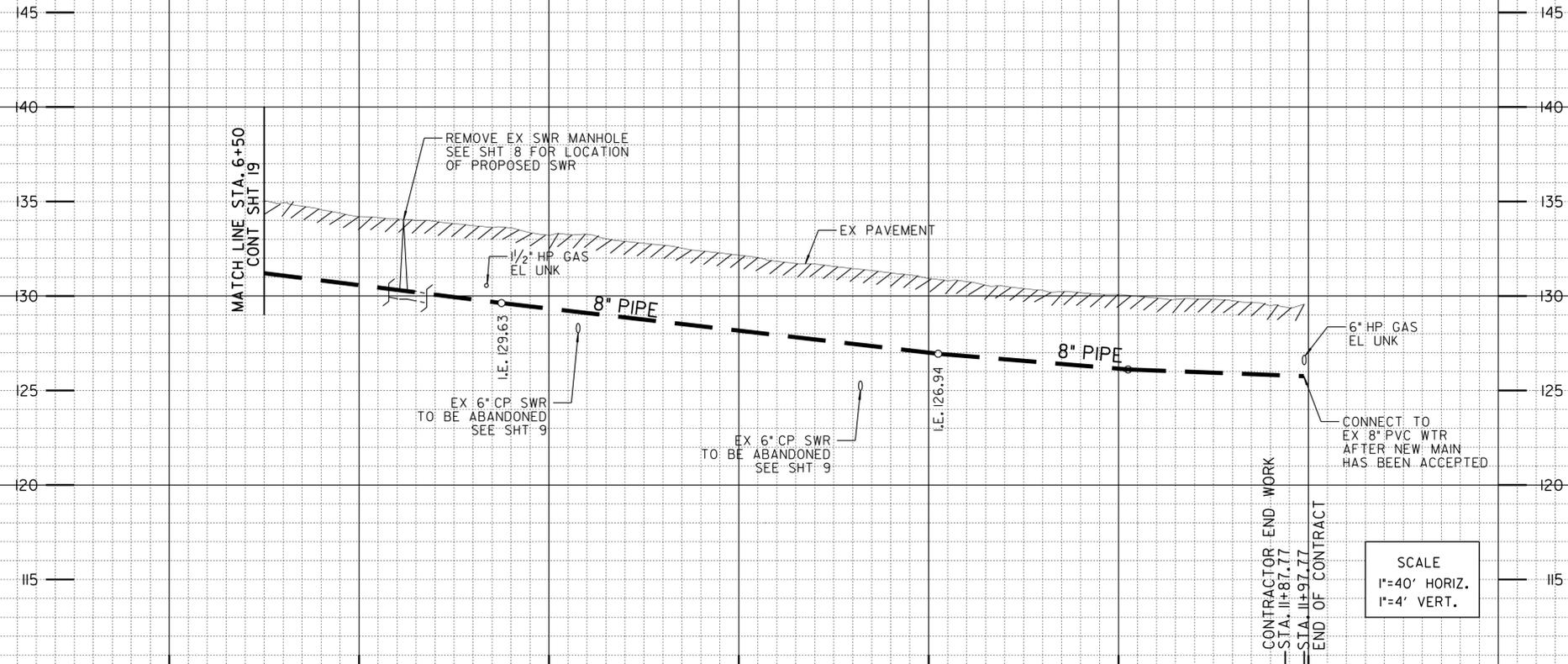


SEWER & WATER GROUP 723			
PLUMOSA DRIVE			
HYACINTH DRIVE TO 550' W/O AZALEA DRIVE			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 18 OF 27 SHEETS		WATER WBS B-00050 SEWER WBS B-00462	
APPROVED: <i>Carl E. Spier</i>	DATE 06-20-12	DESIGNED BY: BIJAN SHAKIBA ASSOCIATE ENGINEER	
FOR CITY ENGINEER		CHECKED BY: SHEILA GAMUEDA PROJECT ENGINEER	
DESCRIPTION ORIGINAL	BY SG/CK	APPROVED	DATE FILMED
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED		
			32141-18-D

PLUMOSA DRIVE

C-17

PLUMOSA DR



COORDINATE REPORT

Sht 18-19
 POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
 ELEMENT LENGTH (ft) WCB (0'00'00") (STRAIGHT) WCB (0'00'00")
 (R=STARTING ANGLE) (R=END ANGLE)
 PCC 6+47.05 1852238.80 6262737.66 (SEE SHT 18)
 R = -77.00 121.10 S 34°54'03.77" W S 55°12'46.45" E
 PRC 7+68.16 1852131.51 6262756.89
 R = +923.00 215.98 S 54°09'56.49" E S 40°45'31.66" E
 PCC 9+84.14 1851985.83 6262915.66
 R = +310.00 213.64 S 40°45'31.70" E S 1°16'22.63" E
 PT 11+97.77 1851790.33 6262990.77

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

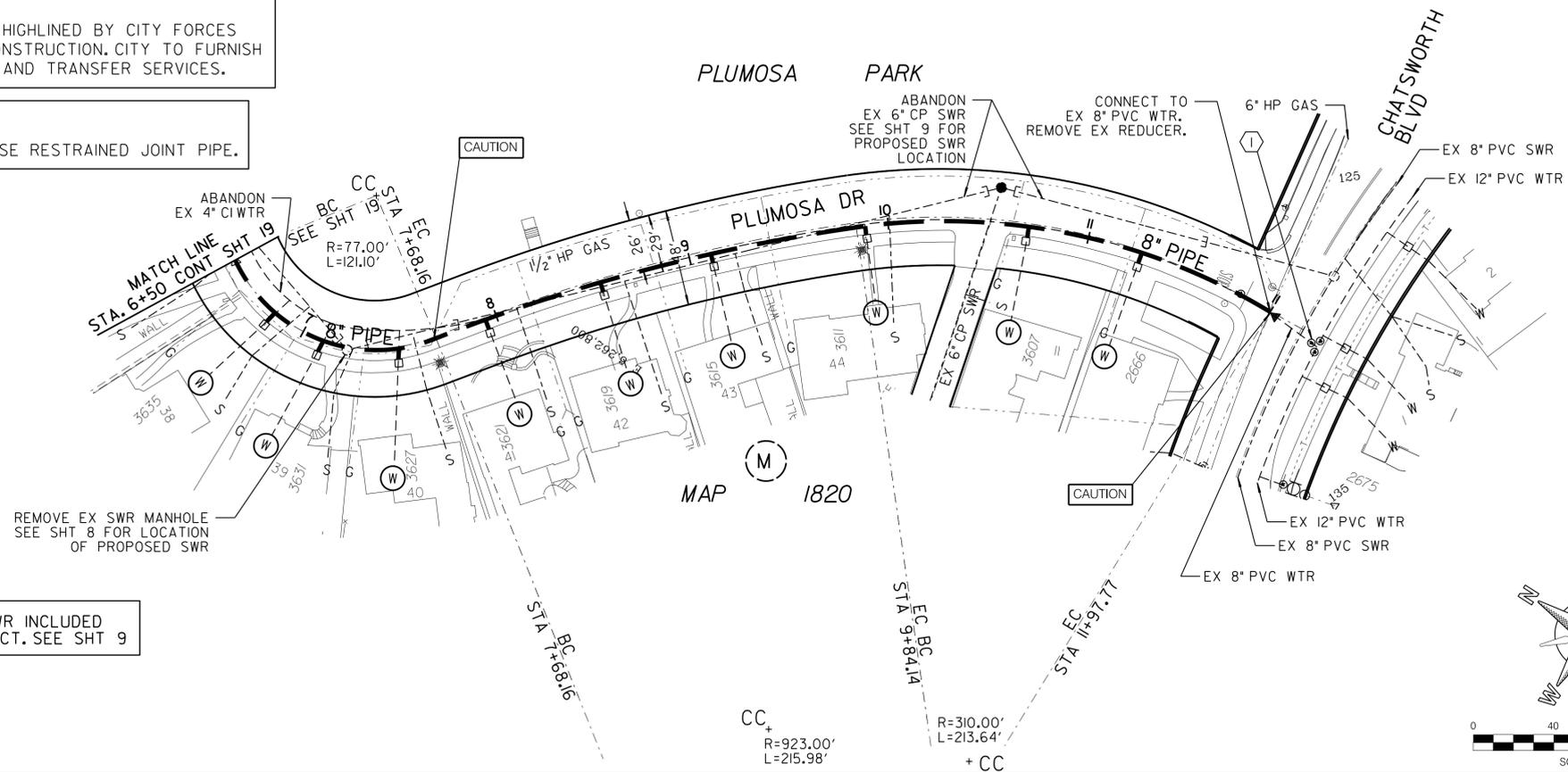
CONTRACTOR'S NOTE:
 PLUMOSA DRIVE SHALL BE HIGHLINED BY CITY FORCES PRIOR TO BEGINNING OF CONSTRUCTION. CITY TO FURNISH ALL HIGHLINING MATERIALS AND TRANSFER SERVICES.

CONTRACTOR'S NOTE:
 STA 6+50 TO STA 7+68, USE RESTRAINED JOINT PIPE.

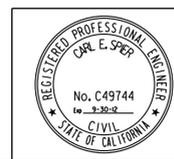
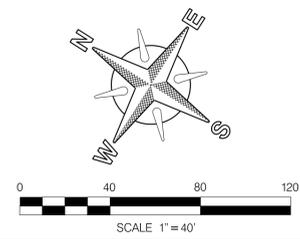
BY CITY FORCES
 AHEAD OF CONTRACTOR
 STA 12+26.81
 CLOSE VALVE. OPEN VALVE
 AFTER NEW MAIN HAS BEEN
 ACCEPTED.

REFERENCE:
 WATER: I790-L, I991-L, I97-L, 30672-13-D
 SEWER: I790-L, I791-L 1796-L, 30672-4-D
 STORM DRAIN: N/A
 GAS: 7-298B, 7-298MI
 ELECTRIC: OVERHEAD
 CABLE TV: OVERHEAD
 TELEPHONE: OVERHEAD
 IMPROVEMENTS: N/A
 100' SCALE/FIELD BOOK: D19S
 THOMAS BROS.: I268-C6
 HGL: 390 - UNIVERSITY HEIGHTS

RETIREMENTS:
 4" - CI - 535.45' - 1925
 1" SERVICE - 9 - CI - 1925



PROPOSED 8" SWR INCLUDED
 IN THIS CONTRACT. SEE SHT 9

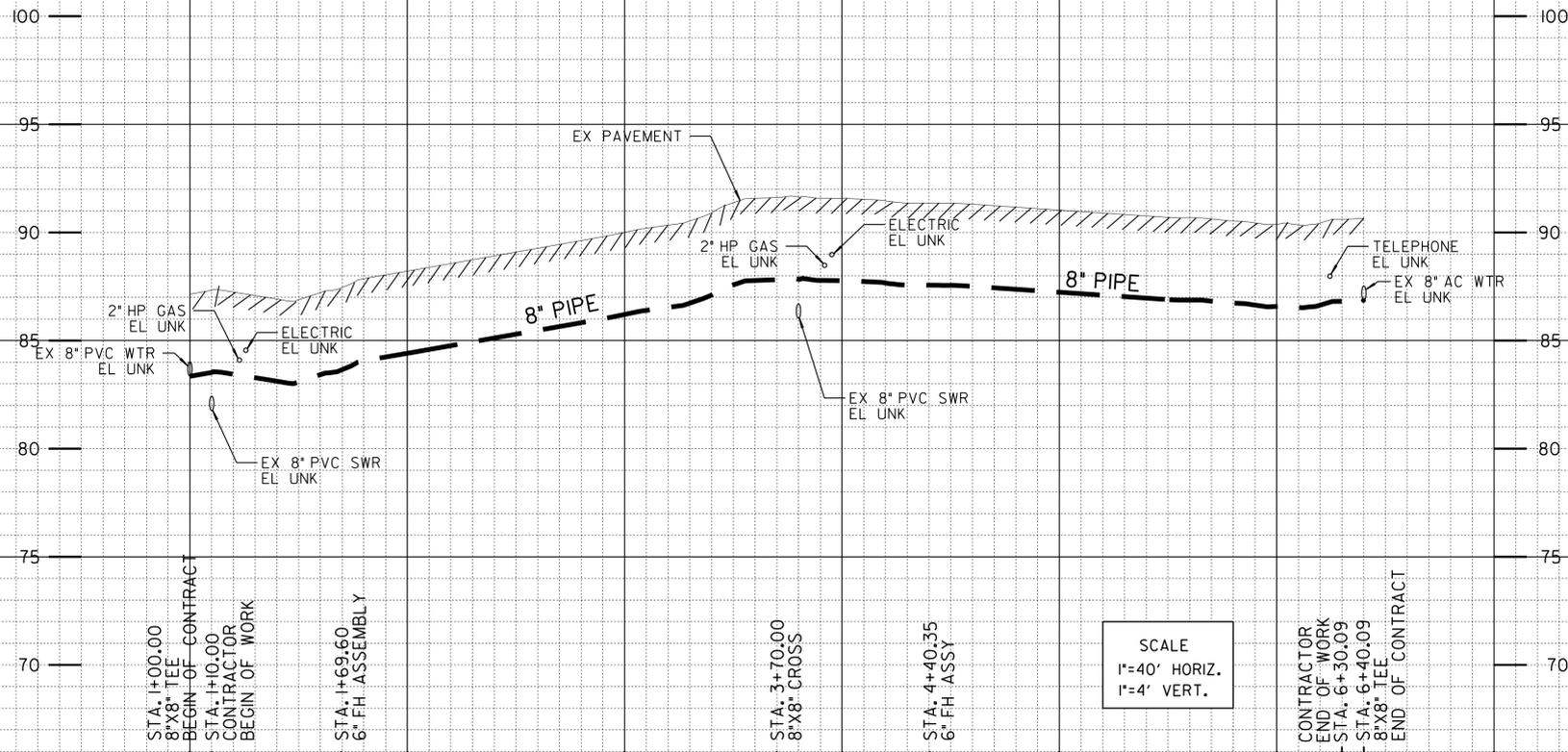


SEWER & WATER GROUP 723			
PLUMOSA DRIVE			
STATION 6+45 TO STATION 12+00			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 19 OF 27 SHEETS		WATER WBS B-00050 SEWER WBS B-00462	
APPROVED: <i>Carl E. Spier</i>	DATE 06-20-12	DESIGNED BY: BIJAN SHAKIBA ASSOCIATE ENGINEER	
FOR CITY ENGINEER		CHECKED BY: SHEILA GAMUEDA PROJECT ENGINEER	
DESCRIPTION ORIGINAL	BY SG/CK	APPROVED	DATE FILMED
CONTRACTOR	DATE STARTED	32141-19-D	
INSPECTOR	DATE COMPLETED		

C-18

PLUMOSA DRIVE

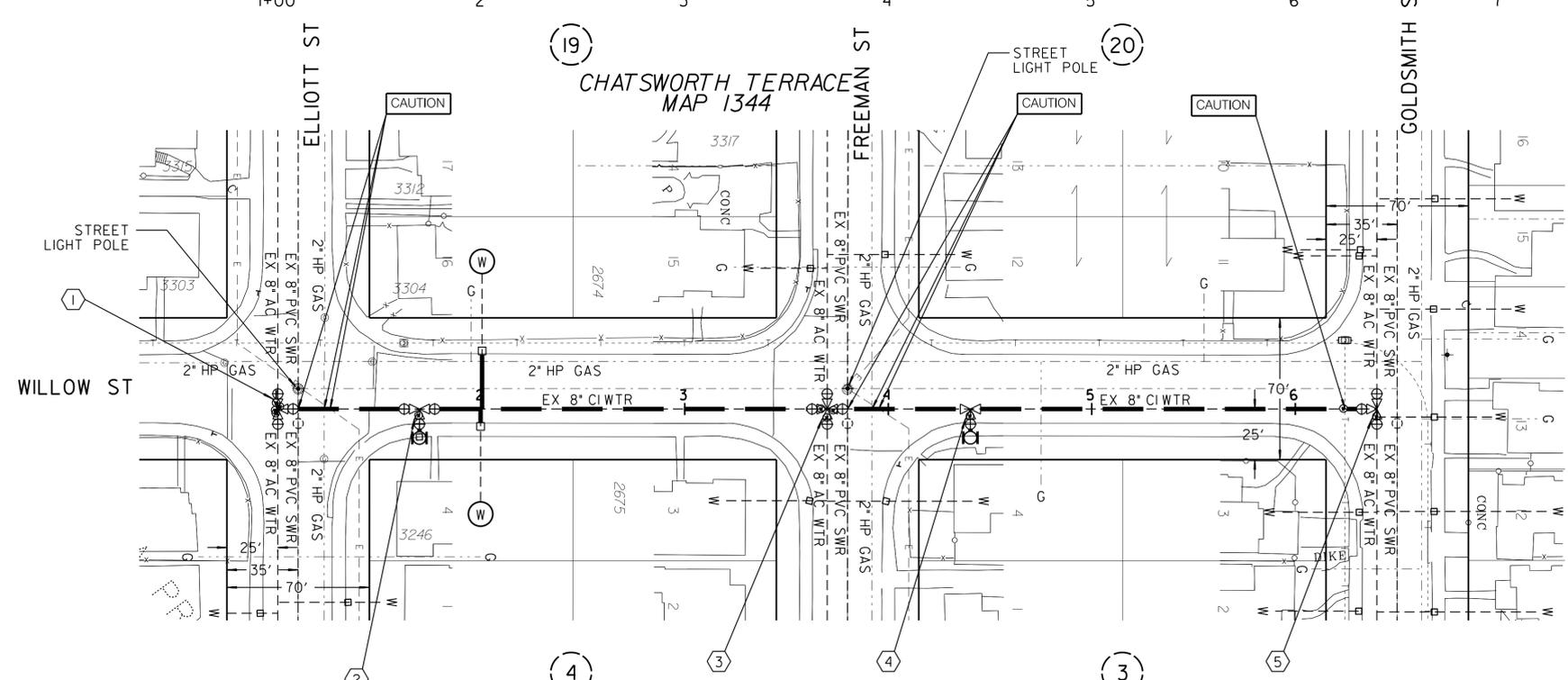
WILLOW ST



COORDINATE REPORT

Sht 20
 POINT CHAINAGE (ft) NORTHING (ft) EASTING (ft)
 ELEMENT LENGTH (ft) WCB (0°00'00") (STRAIGHT) WCB (0°00'00")
 (R=STARTING ANGLE) (R=END ANGLE)
 POB 1+00.00 1851070.74 6263696.61
 STRAIGHT 69.60 N 36°16'03.48" E
 PI 1+69.60 1851126.86 6263737.78
 STRAIGHT 200.40 N 36°16'03.42" E
 PI 3+70.00 1851288.43 6263856.33
 STRAIGHT 70.35 N 36°16'03.65" E
 PI 4+40.35 1851345.15 6263897.94
 STRAIGHT 199.74 N 36°16'03.48" E
 POE 6+40.09 1851506.20 6264016.10

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

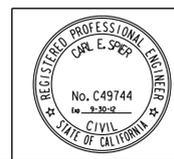


- ① BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR
 STA 1+00.00
 TEMPORARY CUT AND PLUG
 EX 8" AC WTR
 REMOVE EX 8"x8" TEE & VALVES
 1 - 8"x8" TEE (F)
 3 - 8" VALVE (F, MJ) AHD, RT, LT
 RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.
- ② BY CONTRACTOR FURNISH AND INSTALL
 STA 1+69.60
 1 - 8" TEE (MJ, MJ, F)
 1 - 6" FH ASSY AND MARKER, RT
- ③ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR
 STA 3+70.00
 TEMPORARY CUT AND PLUG
 EX 8" AC WTR
 REMOVE EX 8"x8" CROSS & VALVES
 1 - 8"x8" CROSS (F)
 4 - 8" VALVE (F, MJ) AHD, RT, LT, BK
 RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.
- ④ BY CONTRACTOR FURNISH AND INSTALL
 STA 4+40.35
 1 - 8" TEE (MJ, MJ, F)
 1 - 6" FH ASSY AND MARKER
- ⑤ BY CITY FORCES FURNISH & INSTALL AHD OF CONTRACTOR
 STA 6+40.09
 TEMPORARY CUT AND PLUG
 EX 8" AC WTR
 REMOVE EX 8"x8" TEE & VALVES
 1 - 8"x8" TEE (F)
 3 - 8" VALVE (F, MJ) RT, LT, BK
 RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.

REFERENCE:
 WATER: I7338-7-D, 2888-L, 7635-W, 9863-5-D
 SEWER: 31186-6-D, 31186-8-D, 31186-12-D
 STORM DRAIN: N/A
 GAS: 16-384, 16-393, 16-394, 16-395, 16-474, 16-475, 16-459
 ELECTRIC: 210-1701
 CABLE TV: N/A
 TELEPHONE: 2006, 2008, 2064, 2066, 2068
 IMPROVEMENTS: N/A
 100' SCALE/FIELD BOOK: D19S-D
 THOMAS BROS.: I268-C6, I268-D6
 HGL: 225, 390

RETIREMENTS:
 8" - C1 - 540.09' - 1928
 FH (3-PORT) - 2
 3/4" SERVICE - 2 - (COPPER) - 1928

CONTRACTOR'S NOTE:
 WILLOW ST SHALL BE HIGHLINED BY CITY FORCES PRIOR TO BEGINNING OF CONSTRUCTION. CITY TO FURNISH ALL HIGHLINING MATERIALS AND TRANSFER SERVICES.



SEWER & WATER GROUP 723
 WILLOW ST
 ELLIOTT ST TO GOLDSMITH ST

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 20 OF 27 SHEETS		WATER WBS B-00050 SEWER WBS B-00462
APPROVED: <i>Carl E. Speer</i>	DATE 06-20-12	DRAWN BY: BIJAN SHAKIBA ASSOCIATE ENGINEER
FOR CITY ENGINEER		CHECKED BY: SHEILA GAMUEDA PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY SG/CK	DATE
		FILMED
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED

32141-20-D

WILLOW ST

C-19

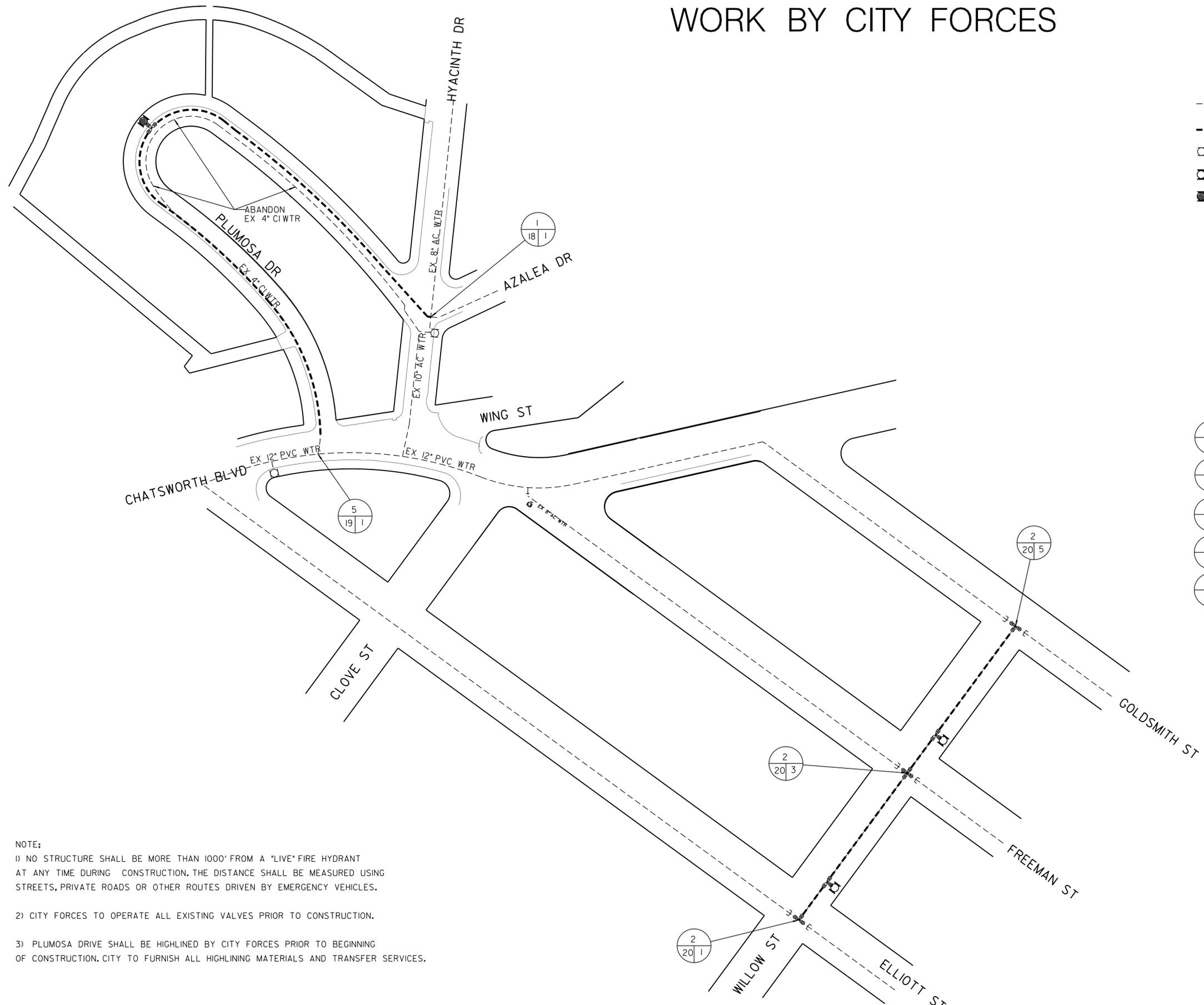
WORK BY CITY FORCES

LEGEND

- EXISTING WATER MAIN
 - PROPOSED WATER MAIN
 - FIRE HYDRANT TO REMAIN IN SERVICE DURING CONSTRUCTION
 - FIRE HYDRANT TO BE REPLACED
 - NEW FIRE HYDRANT
-
- ③ CITY FORCES NOTE NUMBER (THIS SHEET)
 - ②④⑥ CITY FORCES NOTE NUMBER (PLAN & PROFILE SHT.)
 - PLAN & PROFILE "D" SHEET NUMBER
-
- BC --- BEFORE CONTRACTOR
 - AC --- AFTER CONTRACTOR

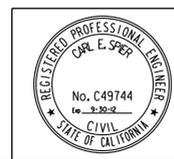
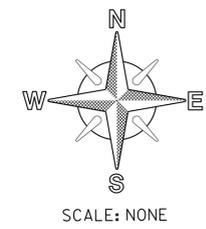
WORK BY CITY FORCES

- ① BC - TEE/CROSS CUT-IN, OPEN/CLOSE VALVE(S)
AC - RECONNECT. OPEN VALVE(S)
- ② BC - CUT & PLUG
AC - RECONNECT
- ③ BC - CUT AND ABANDON
- ④ AC - WET TAP
- ⑤ BC - CLOSE EX. VALVE (REPLACE IF NEEDED)
AC - OPEN EX. VALVE



NOTE:

- 1) NO STRUCTURE SHALL BE MORE THAN 1000' FROM A "LIVE" FIRE HYDRANT AT ANY TIME DURING CONSTRUCTION. THE DISTANCE SHALL BE MEASURED USING STREETS, PRIVATE ROADS OR OTHER ROUTES DRIVEN BY EMERGENCY VEHICLES.
- 2) CITY FORCES TO OPERATE ALL EXISTING VALVES PRIOR TO CONSTRUCTION.
- 3) PLUMOSA DRIVE SHALL BE HIGHLINED BY CITY FORCES PRIOR TO BEGINNING OF CONSTRUCTION. CITY TO FURNISH ALL HIGHLINING MATERIALS AND TRANSFER SERVICES.



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SEWER & WATER GROUP 723				
CITY FORCES SHEET				
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 21 OF 27 SHEETS			WATER WBS B-00050 SEWER WBS B-00462	
APPROVED FOR CITY ENGINEER	<i>Carl E. Spier</i>	DATE	06-20-12	DESIGNED BY BIJAN SHAKIBA ASSOCIATE ENGINEER
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SG/CK			
				CHECKED BY SHEILA GAMUEDA PROJECT ENGINEER
				SEE SHEETS CCS27 COORDINATE
				SEE SHEETS CCS83 COORDINATE
CONTRACTOR	DATE STARTED			32141-21-D
INSPECTOR	DATE COMPLETED			

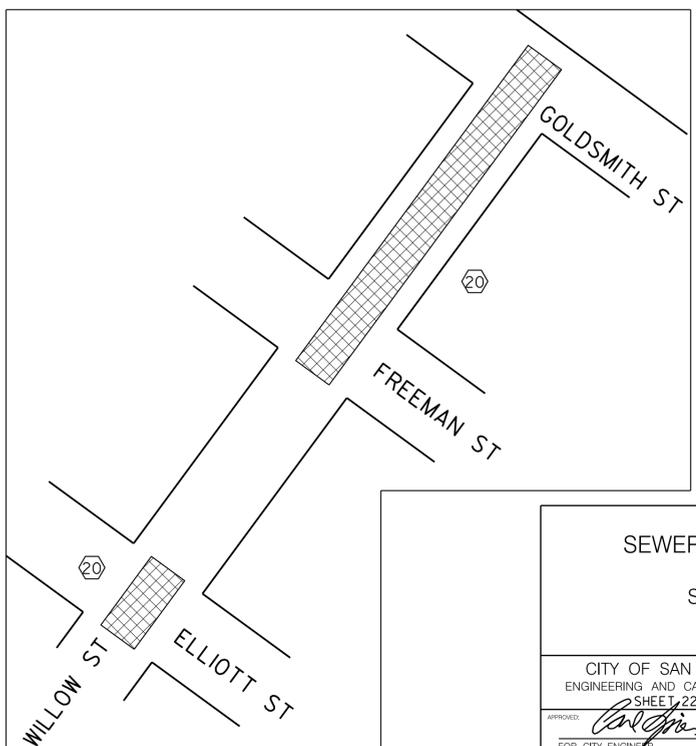
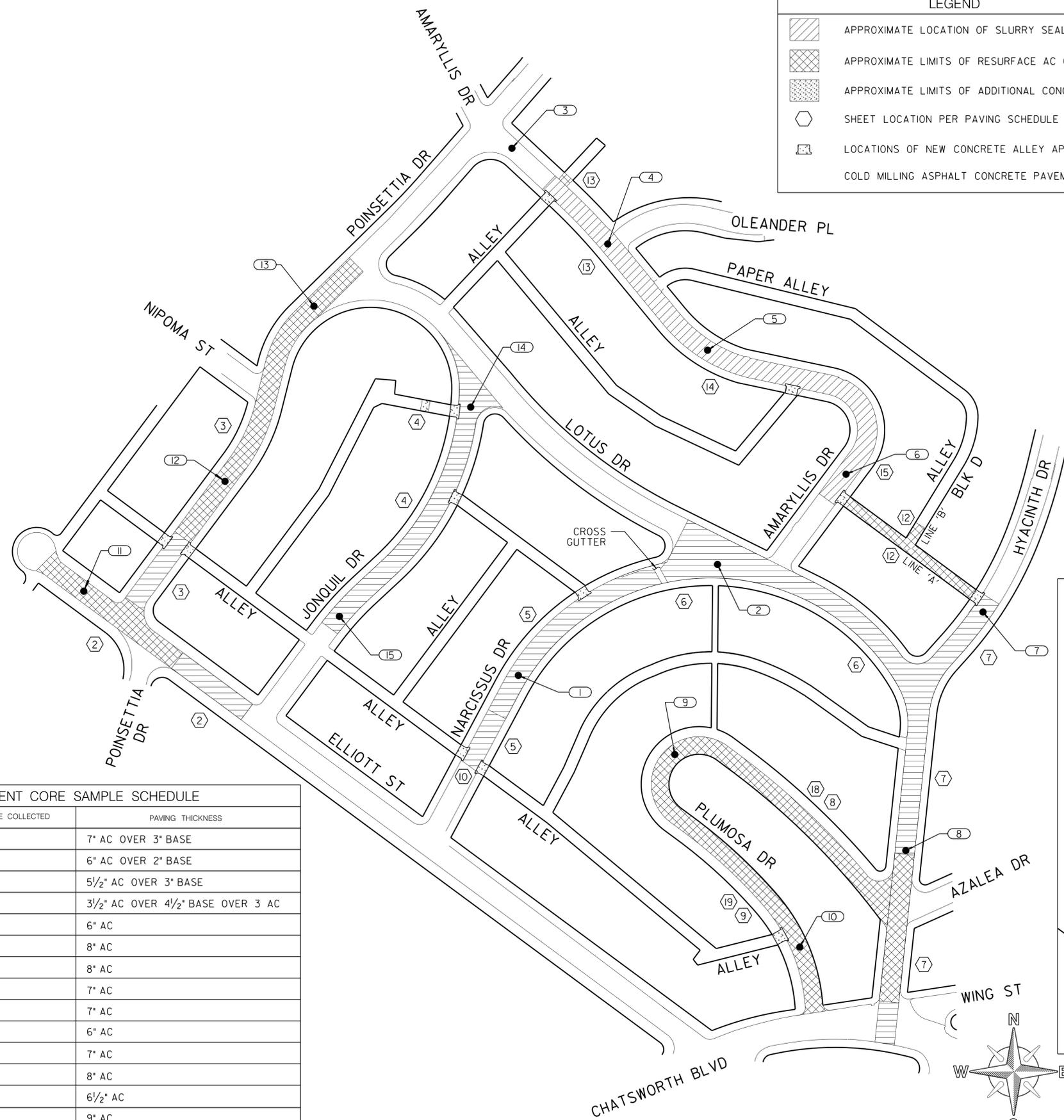
CITY FORCES SHEET

PAVEMENT CORE SAMPLE SCHEDULE		
SAMPLE NO.	LOCATION OF SAMPLE COLLECTED	PAVING THICKNESS
1	NARCISSUS DR	7" AC OVER 3" BASE
2	LOTUS DR	6" AC OVER 2" BASE
3	AMARYLLIS DR	5 1/2" AC OVER 3" BASE
4	AMARYLLIS DR	3 1/2" AC OVER 4 1/2" BASE OVER 3 AC
5	AMARYLLIS DR	6" AC
6	AMARYLLIS DR	8" AC
7	HYACINTH DR	8" AC
8	HYACINTH DR	7" AC
9	PLUMOSA DR	7" AC
10	PLUMOSA DR	6" AC
11	ELLIOTT ST	7" AC
12	POINSETTIA DR	8" AC
13	POINSETTIA DR	6 1/2" AC
14	JONQUIL DR	9" AC
15	JONQUIL DR	6 1/2" AC

LEGEND

- APPROXIMATE LOCATION OF SLURRY SEAL REAS TYPE II
- APPROXIMATE LIMITS OF RESURFACE AC OVERLAY
- APPROXIMATE LIMITS OF ADDITIONAL CONCRETE REPLACEMENT
- SHEET LOCATION PER PAVING SCHEDULE NOTES
- LOCATIONS OF NEW CONCRETE ALLEY APRON; G-17 COLD MILLING ASPHALT CONCRETE PAVEMENT; SDG-139

PAVING SCHEDULE NOTES						
SHEET NO.	LOCATION	RESTORATION REQUIRED	STATION	STATION	WIDTH	APPROX. AREA
2	ELLIOTT ST	AC OVERLAY	1+00	3+60	34'	8,840
		SLURRY SEAL	3+60	5+29	34'	5,746
3	POINSETTIA DR	SLURRY SEAL	1+00	2+70	34'	5,780
		AC OVERLAY	2+70	8+60	34'	20,060
4	JONQUIL DR - LINE 'A'	SLURRY SEAL	1+00	5+34	34'	14,756
	JONQUIL DR - LINE 'B'	SLURRY SEAL	1+00	1+40	34'	1,360
	ALLEY BLK K	CONCRETE REPLACEMENT	6+00	6+15	20'	300
5	NARCISSUS DR	SLURRY SEAL	0+10	4+70	34'	15,640
6	NARCISSUS DR & LOTUS DR	SLURRY SEAL	4+80	10+38	VARIABLE	22,283
7	HYACINTH DR	SLURRY SEAL	1+00	1+50	34'	1,700
		AC OVERLY	1+50	4+00	34'	8,500
		SLURRY SEAL	4+00	8+86	34'	16,524
8/18	PLUMOSA DR	AC OVERLY	1+00	7+50	30'	19,500
9/19	PLUMOSA DR	AC OVERLY	7+50	11+94	30'	13,320
10	NARCISSUS DR	SLURRY SEAL	3+45	3+79	20'	680
12	ALLEY BLK D (LINE 'A')	AC OVERLAY	1+30	4+00	20'	5,400
12	ALLEY BLK D (LINE 'B')	AC OVERLAY	1+00	1+35	20'	700
13	AMARYLLIS DR	SLURRY SEAL	1+00	3+20	32'	7,040
		AC OVERLY	1+04	1+24	20'	400
14	AMARYLLIS DR	SLURRY SEAL	3+20	8+00	34'	16,320
15	AMARYLLIS DR	SLURRY SEAL	8+00	9+85	34'	6,290
20	WILLOW ST	AC OVERLY	0+75	1+50	34'	2,550
		AC OVERLY	3+44	6+67	34'	10,982
TOTAL AREA OF SLURRY SEAL						114,119 SF
TOTAL AREA OF RESURFACE AC						90,252 SF
TOTAL AREA OF ADDITIONAL CONCRETE REPLACEMENT						300 SF
NEW CONCRETE ALLEY APRON						12



SEWER & WATER GROUP 723
STREET RESURFACING

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 22 OF 27 SHEETS

APPROVED: *[Signature]* 06-20-12
FOR CITY ENGINEER DATE

DESIGNED BY: BIJAN SHAKIBA
ASSOCIATE ENGINEER

CHECKED BY: SHEILA GAMUEDA
PROJECT ENGINEER

210-1701
CCS27 COORDINATE

CCS83 COORDINATE

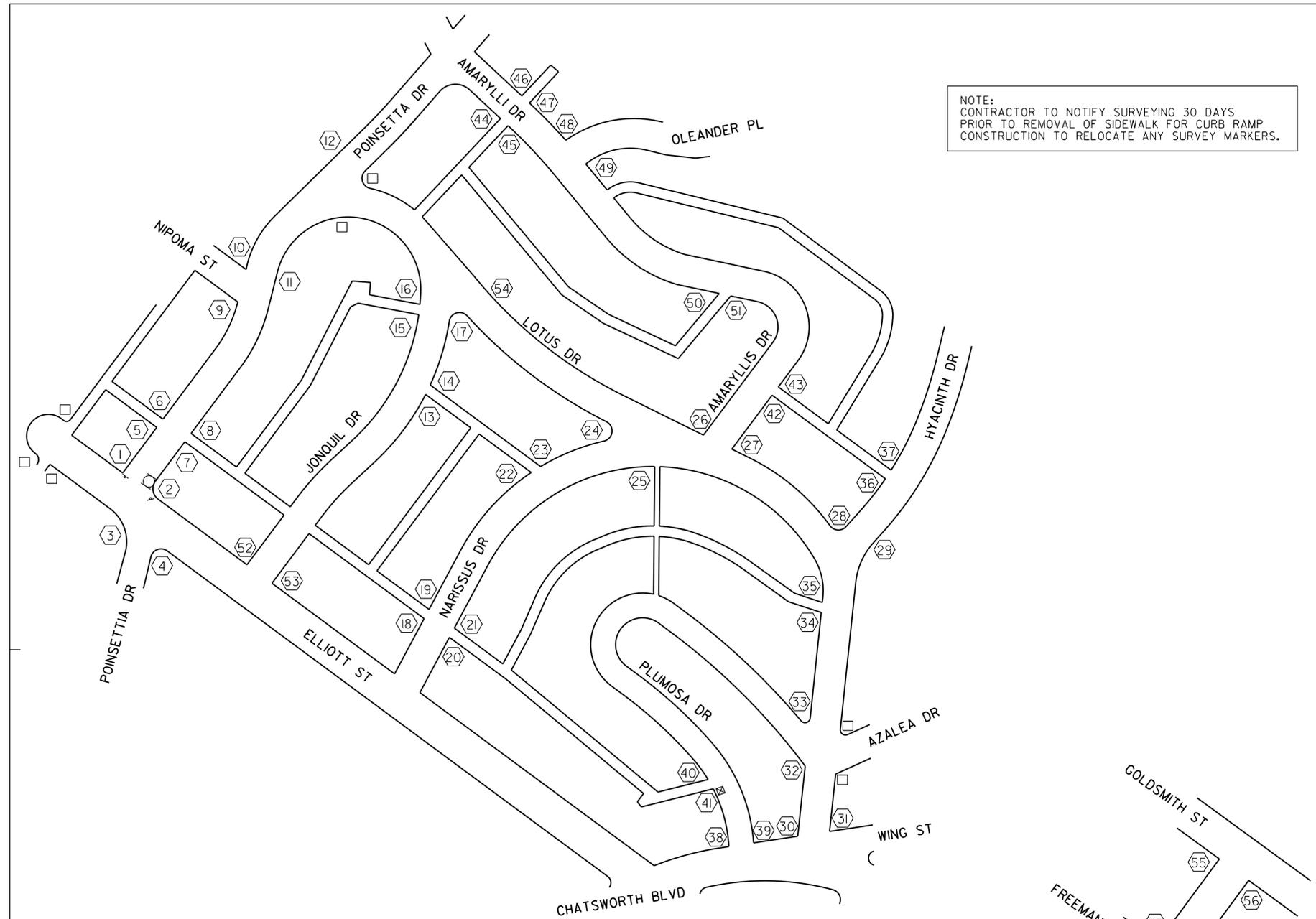
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

32141-22-D



C-21

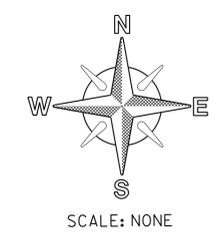
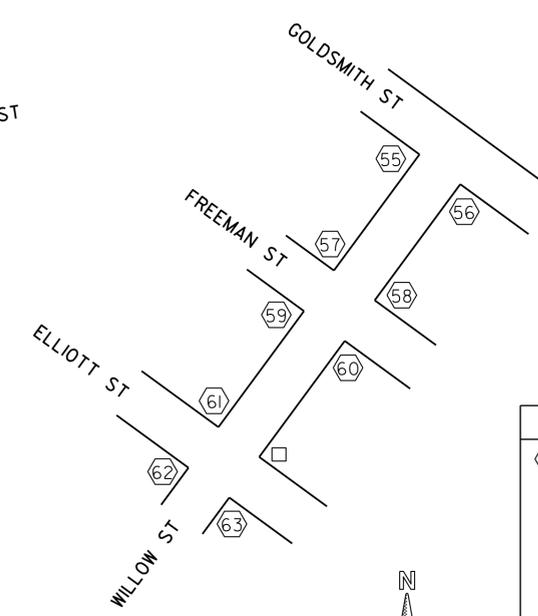
STREET RESURFACING



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

CURB RAMP NOTES TABLE									
LOCATION NO	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	TRUNCATED DOME MATERIAL		CONSTRAINTS	COMMENTS / MODIFICATIONS	
					• STAINLESS STEEL	• OTHER			
1	CI	X		X		X	X		STOP SIGN
2	CI	X				X	X		FIRE HYDRANT, SIGN
3	CI		X			X			
4	CI		X			X			
5	D	X				X			
6	D	X				X			
7	D	X				X			
8	D	X				X			
9	CI	X		X		X			
10	CI	X		X		X			
11	CI	X				X			
12	CI	X				X			
13	D	X				X			
14	D	X				X			
15	D		X			X			
16	D	X		X		X			
17	CI	X				X			
18	D	X				X			
19	D	X				X			
20	D	X				X			
21	D	X				X			
22	D	X		X		X			
23	D	X				X			
24	CI	X				X			
25	CI	X		X		X			
26	CI	X		X		X			
27	CI	X		X		X			
28	CI	X				X			
29	CI	X		X		X			
30	CI		X			X			
31	CI		X	X		X			
32	CI		X			X			
33	C2	X		X		X			
34	D	X				X			
35	D	X				X			
36	D	X				X			
37	D	X				X			
38	CI		X			X			
39	CI		X			X			
40	D	X				X			
41	D	X				X	X		WATER METER
42	D	X		X		X			
43	D	X		X		X			
44	D	X				X			
45	D	X				X			
46	D	X				X			
47	D	X				X			
48	CI	X				X			
49	CI	X				X			
50	D	X				X			
51	D	X				X	X		FIRE HYDRANT
52	CI		X			X			

CURB RAMP NOTES TABLE									
LOCATION NO	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	TRUNCATED DOME MATERIAL		CONSTRAINTS	COMMENTS / MODIFICATIONS	
					• STAINLESS STEEL	• OTHER			
53	CI		X			X			
54	CI	X				X			
55	CI		X			X			
56	CI		X			X			
57	CI		X			X			
58	CI		X			X			
59	CI		X			X			
60	CI		X			X			
61	CI		X			X			
62	CI		X			X			
63	CI		X			X			



LEGEND

- ⊗ CURB RAMP NO's
- EX UTILITY POLE
- ⊙ EX FIRE HYDRANT
- ⊕ EX STREET LIGHT
- T EX TREE
- ↑ EX STREET SIGN
- EX CURB RAMP
- ⊞ EX WATER METER

PROPOSED CURB RAMPS PER STANDARD DRAWINGS:

A & B	SDG-132
CI	SDG-134
C2	SDG-135
D	SDG-136
TRUNCATED DOMES	SDG-130
CURB RAMP DETAILS	SDG-137
EX STAMP/IMPRESSION PLACEMENT	SDG-115
ISLAND REFUGE/PASSAGEWAY DETAILS	SDG-138

SEWER & WATER GROUP 723
CURB RAMP LOCATION

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 23 OF 27 SHEETS

APPROVED: *[Signature]* 06-20-12
FOR CITY ENGINEER DATE

DESIGNED BY: BIJAN SHAKIBA
ASSOCIATE ENGINEER

CHECKED BY: SHEILA GAMUEDA
PROJECT ENGINEER

210-1701
CCS27 COORDINATE

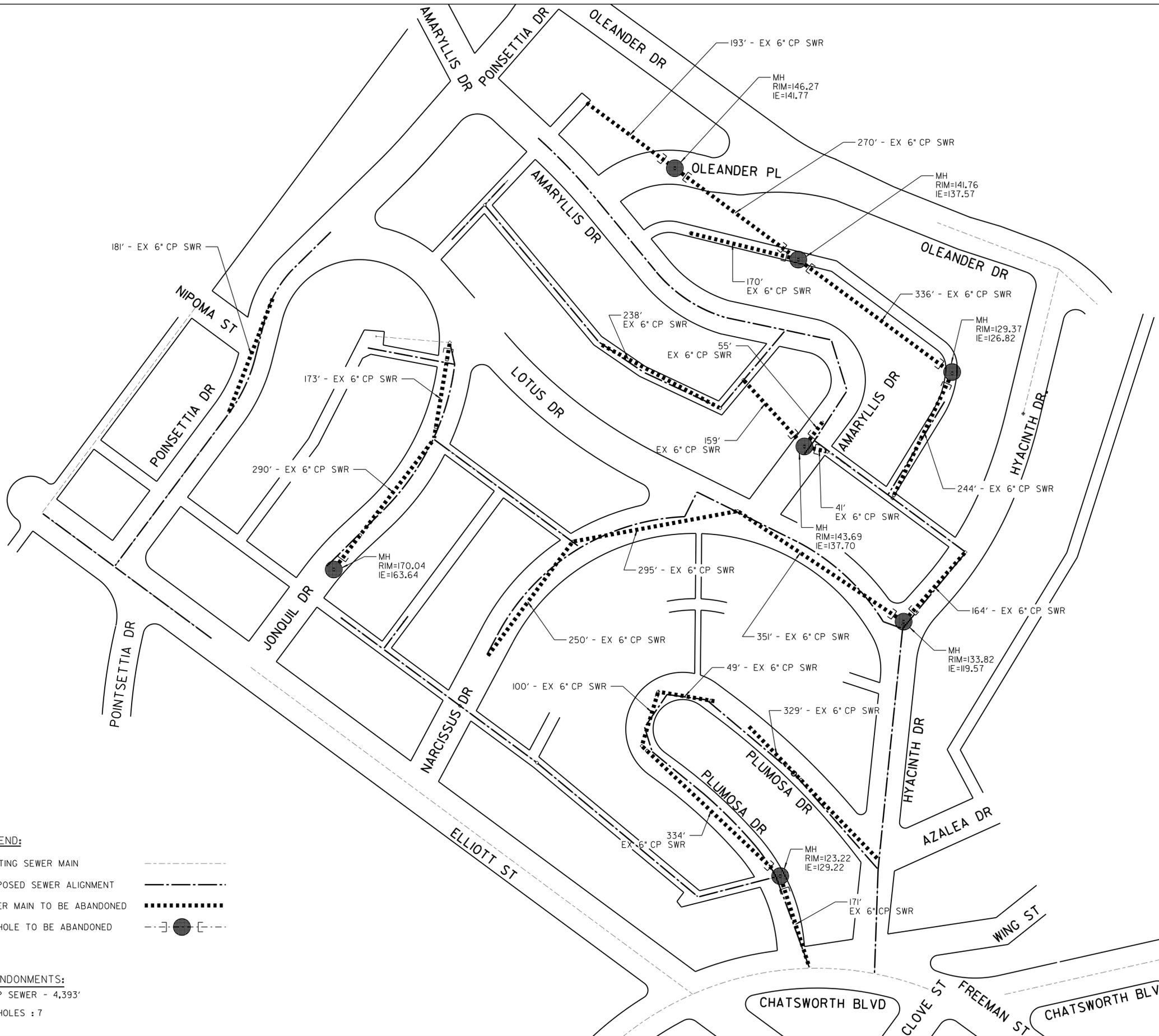
CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

32141-23-D

• THE DETECTABLE WARNING TILES SHALL BE PER THE CITY'S APPROVED MATERIALS LIST

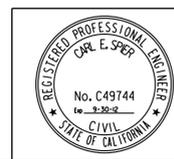
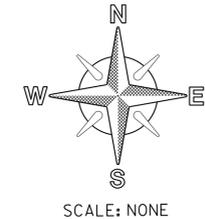
CURB RAMP LOCATION

C-23

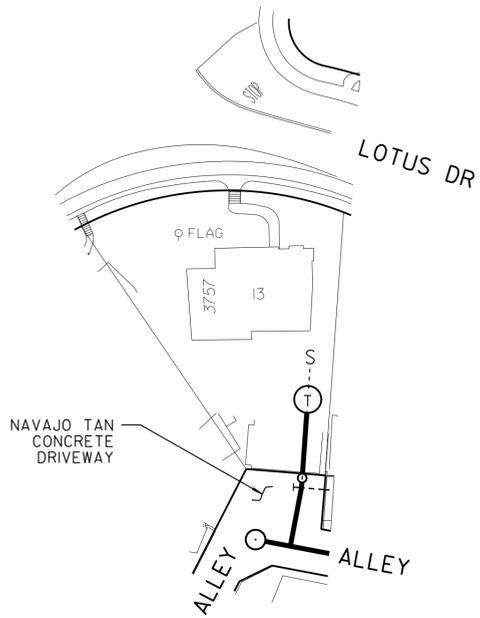


LEGEND:
 EXISTING SEWER MAIN
 PROPOSED SEWER ALIGNMENT
 SEWER MAIN TO BE ABANDONED
 MANHOLE TO BE ABANDONED

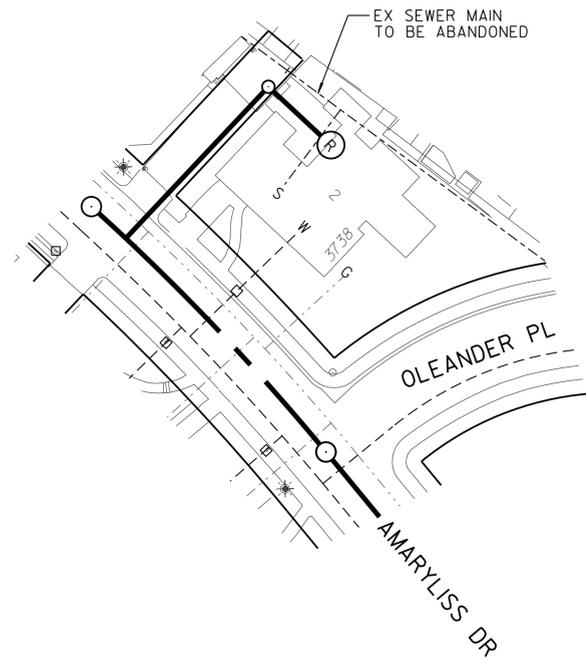
ABANDONMENTS:
 6" CP SEWER - 4,393'
 MANHOLES : 7



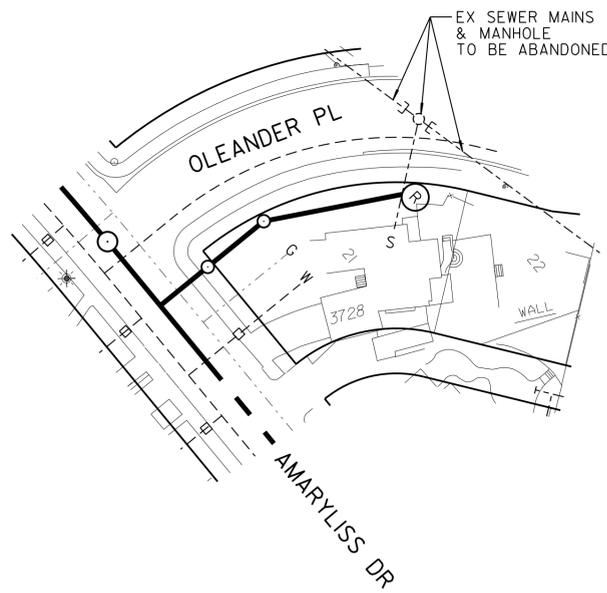
SEWER & WATER GROUP 723				
SEWER MAIN & MANHOLE ABANDONMENT				
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 24 OF 27 SHEETS			WATER WBS B-00050 SEWER WBS B-00462	
APPROVED: <i>Carl E. Spier</i>	DATE 06-20-12		DRAWN BY: BIJAN SHAKIBA ASSOCIATE ENGINEER	
FOR CITY ENGINEER	BY SG/CK	APPROVED	DATE	FILMED
DESCRIPTION ORIGINAL				
CHECKED BY: SHEILA GAMUEDA PROJECT ENGINEER				SEE SHEETS CCS27 COORDINATE
				SEE SHEETS CCS83 COORDINATE
CONTRACTOR	DATE STARTED		32141-24-D	
INSPECTOR	DATE COMPLETED			



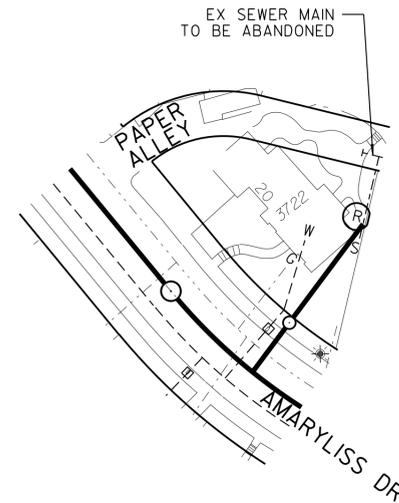
3757 LOTUS DRIVE
SEE SHEET 4



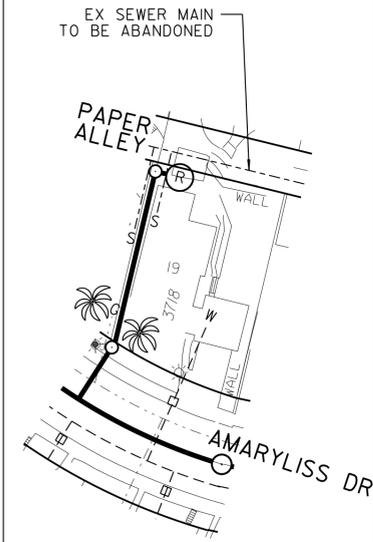
3738 AMARYLISS DR
SEE SHEET 13



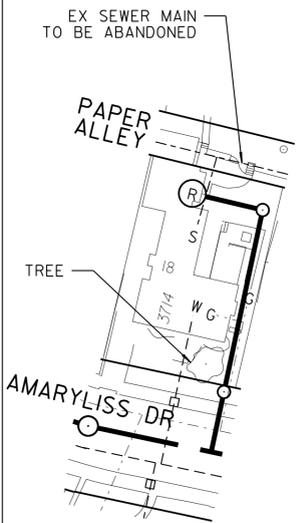
3728 AMARYLISS DR
SEE SHEET 13



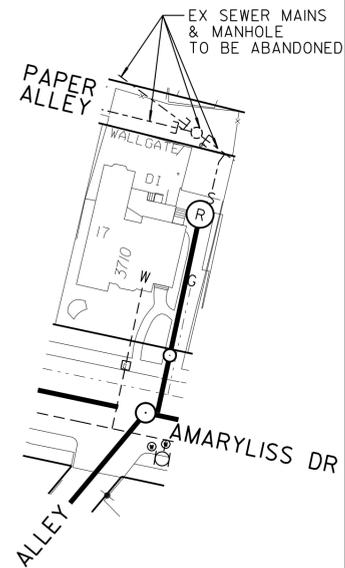
3722 AMARYLISS DR
SEE SHEET 14



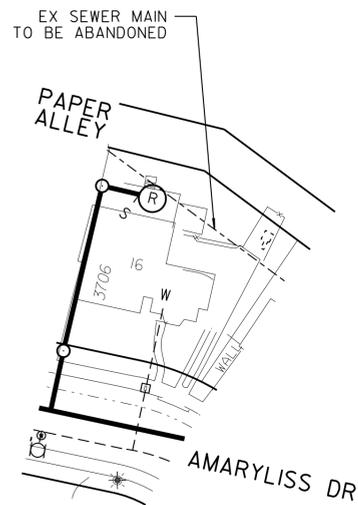
3718 AMARYLISS DR
SEE SHEET 14



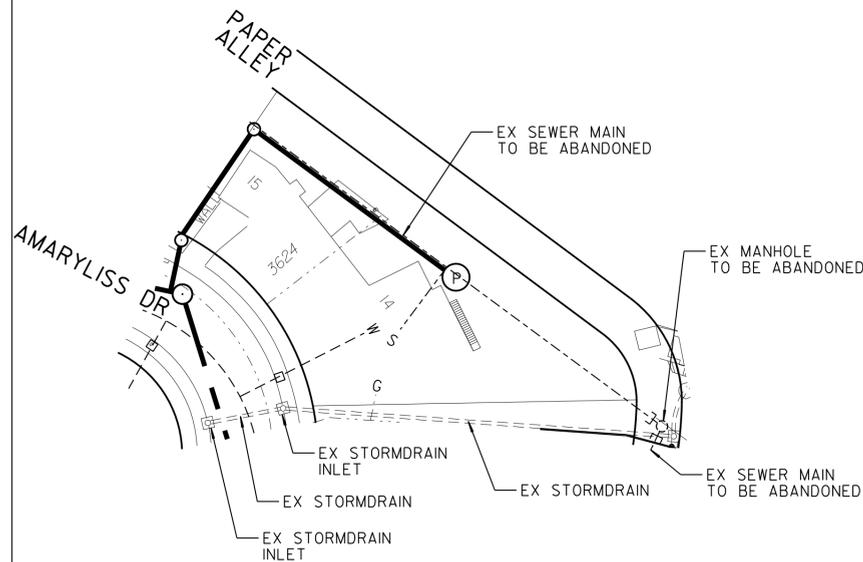
3714 AMARYLISS DR
SEE SHEET 14



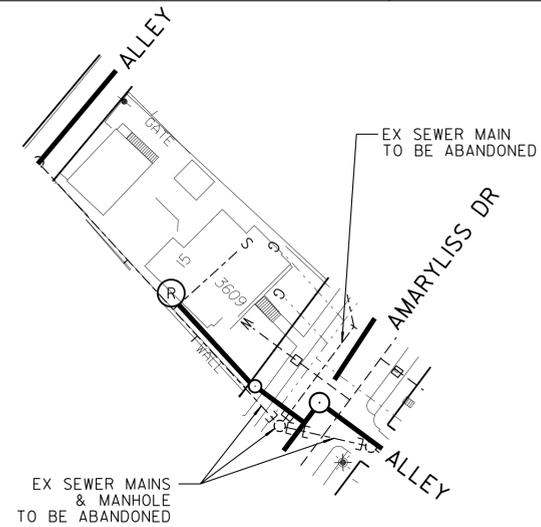
3710 AMARYLISS DR
SEE SHEET 14



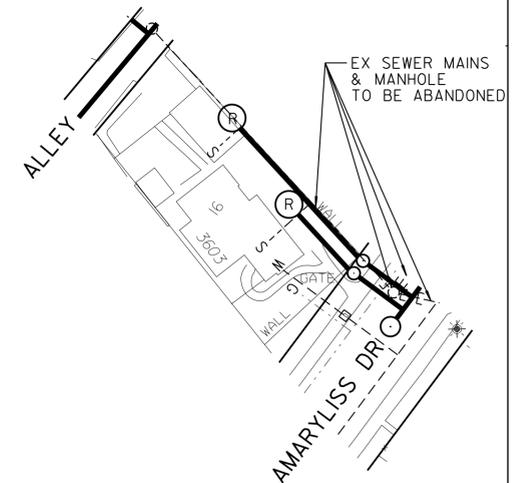
3706 AMARYLISS DR
SEE SHEET 14



3624 AMARYLISS DR
SEE SHEET 15



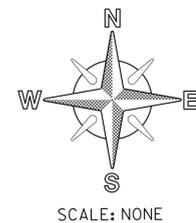
3609 AMARYLISS DR
SEE SHEET 15



3603 AMARYLISS DR
SEE SHEET 15

SEWER & WATER GROUP 723
REPLUMB DETAIL SHEET

C-24



NOTES:
 1. CONTRACTOR TO VERIFY THE CONNECTION POINT, I.E., AND LOCATION OF EXISTING LATERAL. COORDINATE INSTALLATION OF NEW LATERAL WITH PROPERTY OWNER.
 2. CONTRACTOR TO REMOVE AND/OR REPLACE ALL EXISTING IMPROVEMENTS AS REQUIRED FOR NEW LATERAL CONSTRUCTION. REPLACE ALL DAMAGE IMPROVEMENTS TO MATCH EXISTING CONDITIONS, LIKE AND KIND.
 3. CONTRACTOR SHALL INSTALL PLUG TO CAP OLD LATERAL DURING REPLUMBING OF SEWER LATERAL.

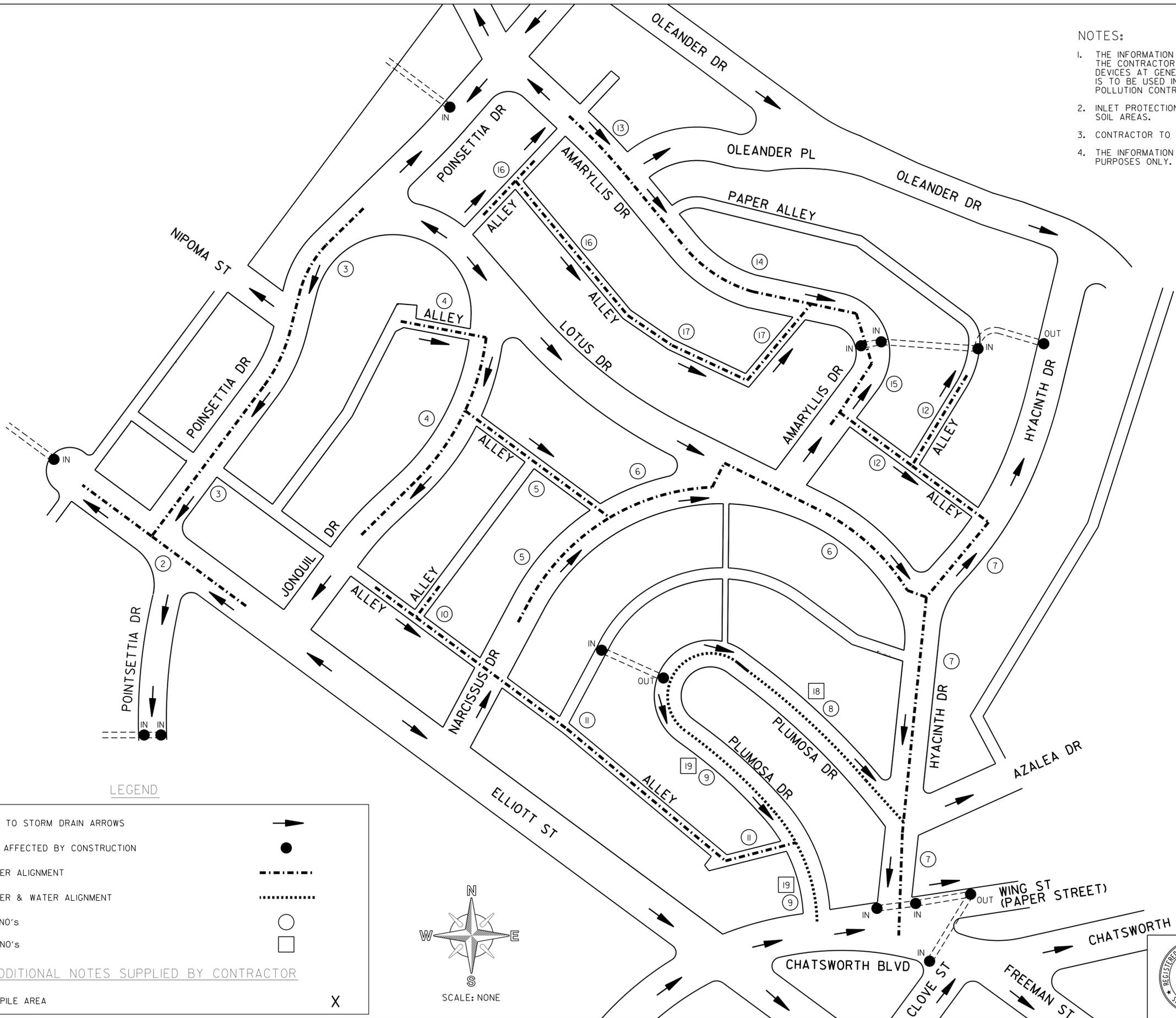


CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 25 OF 27 SHEETS		WATER WBS B-00050 SEWER WBS B-00462
APPROVED BY: <i>Carl E. Spier</i>	DATE: 06-20-12	DESIGNED BY: BIJAN SHAKIBA ASSOCIATE ENGINEER
FOR CITY ENGINEER		CHECKED BY: SHEILA GAMUEDA PROJECT ENGINEER
DESCRIPTION ORIGINAL	BY SG/CK	APPROVED
		DATE
		FILMED
CONTRACTOR	DATE STARTED	32141-25-D
INSPECTOR	DATE COMPLETED	

REPLUMB DETAIL SHEET

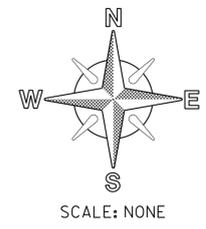
NOTES:

1. THE INFORMATION ON THIS SITE PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTOR TO INSTALL WATER POLLUTION CONTROL DEVICES AT GENERAL LOCATIONS THROUGHOUT THE PROJECT SITE, THIS SITE PLAN IS TO BE USED IN CONJUNCTION WITH THE NARRATIVE SECTION OF THE WATER POLLUTION CONTROL PLAN (WPCP) AND WATER POLLUTION CONTROL SPECIFICATIONS.
2. INLET PROTECTION REQUIRED AT ALL STORM DRAINS RECEIVING RUNOFF FROM DISTURBED SOIL AREAS.
3. CONTRACTOR TO UPDATE / REVISE SHEET AS NECESSARY.
4. THE INFORMATION ON THE SITE PLAN IS ACCURATE FOR WATER POLLUTION CONTROL PURPOSES ONLY.



LEGEND

SURFACE FLOW TO STORM DRAIN	→
STORM DRAINS AFFECTED BY CONSTRUCTION	●
PROPOSED SEWER ALIGNMENT	- - - - -
PROPOSED SEWER & WATER ALIGNMENT	· · · · ·
SEWER SHEET NO's	○
WATER SHEET NO's	□
ADDITIONAL NOTES SUPPLIED BY CONTRACTOR	
STAGING/STOCKPILE AREA	X



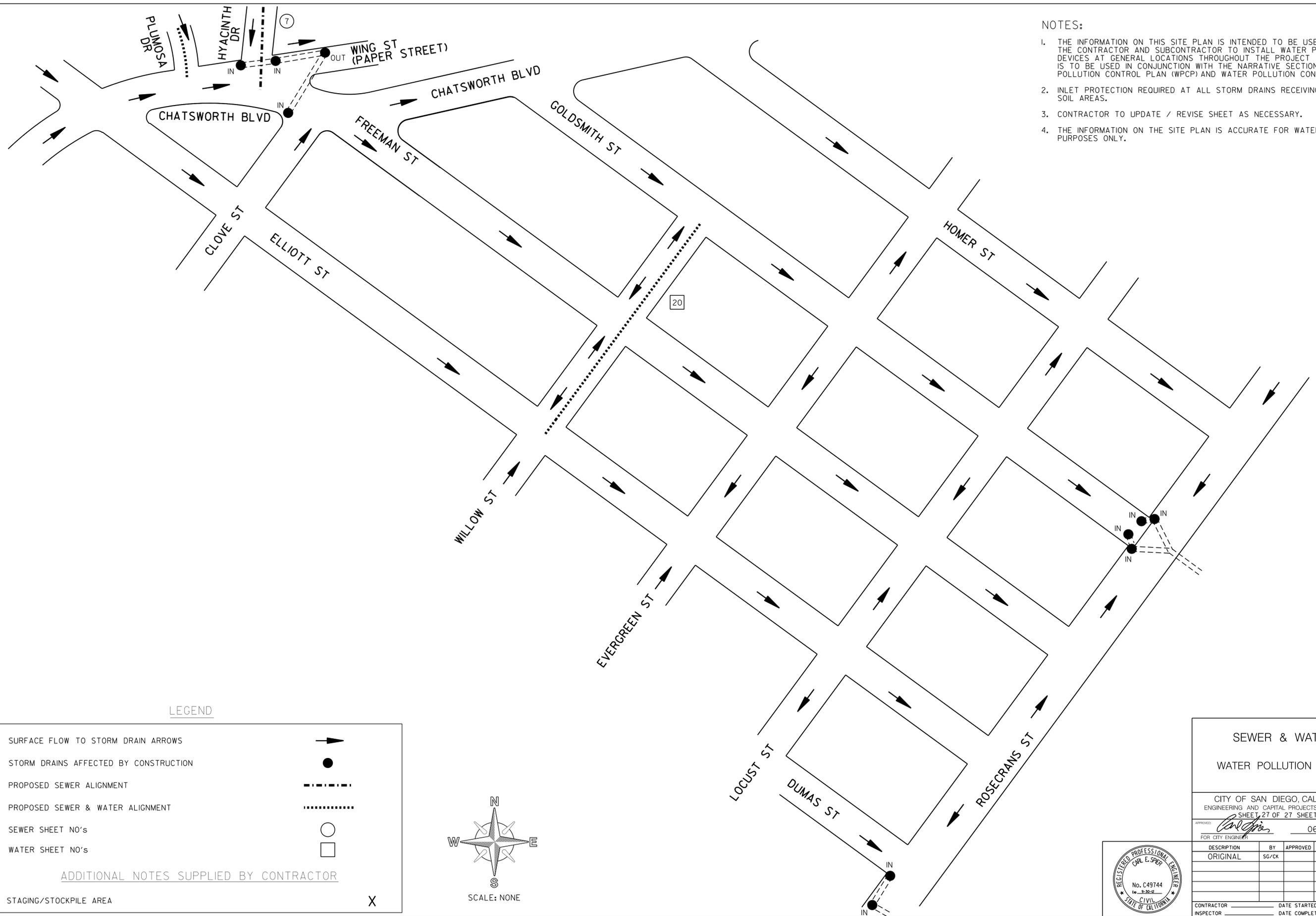
C-25

SEWER & WATER GROUP 723			
WATER POLLUTION CONTROL SITE PLAN			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 26 OF 27 SHEETS		WATER WBS B-00050 SEWER WBS B-00462	
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER	DATE 06-20-12	DRAWN BY: BIJAN SHAKIBA ASSOCIATE ENGINEER	
DESCRIPTION ORIGINAL	BY SG/CK	APPROVED	FILED
CHECKED BY: SHEILA GAMUEDA PROJECT ENGINEER		SEE SHEETS CCS27 COORDINATE	
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		32141-26-D	



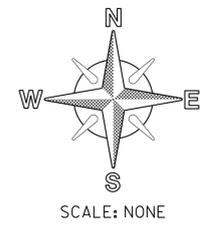
NOTES:

1. THE INFORMATION ON THIS SITE PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTOR TO INSTALL WATER POLLUTION CONTROL DEVICES AT GENERAL LOCATIONS THROUGHOUT THE PROJECT SITE, THIS SITE PLAN IS TO BE USED IN CONJUNCTION WITH THE NARRATIVE SECTION OF THE WATER POLLUTION CONTROL PLAN (WPCL) AND WATER POLLUTION CONTROL SPECIFICATIONS.
2. INLET PROTECTION REQUIRED AT ALL STORM DRAINS RECEIVING RUNOFF FROM DISTURBED SOIL AREAS.
3. CONTRACTOR TO UPDATE / REVISE SHEET AS NECESSARY.
4. THE INFORMATION ON THE SITE PLAN IS ACCURATE FOR WATER POLLUTION CONTROL PURPOSES ONLY.



LEGEND

SURFACE FLOW TO STORM DRAIN	ARROWS
STORM DRAINS AFFECTED BY CONSTRUCTION	●
PROPOSED SEWER ALIGNMENT	---
PROPOSED SEWER & WATER ALIGNMENT
SEWER SHEET NO's	○
WATER SHEET NO's	□
ADDITIONAL NOTES SUPPLIED BY CONTRACTOR	
STAGING/STOCKPILE AREA	X



C-26

SEWER & WATER GROUP 723			
WATER POLLUTION CONTROL SITE PLAN			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 27 OF 27 SHEETS		WATER WBS B-00050 SEWER WBS B-00462	
APPROVED FOR CITY ENGINEER	DATE	CHECKED BY	
<i>Carl E. Speer</i>	06-20-12	BIJAN SHAKIBA ASSOCIATE ENGINEER	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	SG/CK		
CHECKED BY		PROJECT ENGINEER	
		SHEILA GAMUEDA	
		SEE SHEETS	
		CCS27 COORDINATE	
		SEE SHEETS	
		CCS83 COORDINATE	
CONTRACTOR	DATE STARTED	32141-27-D	
INSPECTOR	DATE COMPLETED		

