

# City of San Diego

CONTRACTOR'S NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
TELEPHONE NO.: \_\_\_\_\_ FAX NO.: \_\_\_\_\_  
CITY CONTACT: **DAMIAN SINGLETON**, Contract Specialist, Email: [dsingleton@saniego.gov](mailto:dsingleton@saniego.gov)  
Phone No. (619) 533-3482, Fax No. (619) 533-3633  
J HAGHGOUY / B DORINGO / LS



## CONTRACT DOCUMENTS

## FOR

### SEWER AND WATER GROUP JOB 957

VOLUME 1 OF 2

BID NO.:	<b>K-13-5811-DBB-3-C</b>
SAP NO. (WBS/IO/CC):	<b>B-11152, B-11154</b>
CLIENT DEPARTMENT:	<b>2011, 2013</b>
COUNCIL DISTRICT:	<b>2</b>
PROJECT TYPE:	<b>KB</b>

**THIS CONTRACT IS SUBJECT TO THE FOLLOWING:**

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

**BID DUE DATE:**

**2:00PM  
APRIL 9, 2013  
CITY OF SAN DIEGO  
PUBLIC WORKS DEPARTMENT  
1010 SECOND AVENUE, SUITE 1400, MS 614C  
SAN DIEGO, CA 92101**

# ENGINEER OF WORK

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



Wendy Gamboa  
For City Engineer

2/21/2013  
Date

Seal:





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# CITY OF SAN DIEGO, CALIFORNIA

## NOTICE INVITING BIDS

- 1. RECEIPT AND OPENING OF BIDS:** Bids will be received at the Public Works Contracting Group at the location, time, and date shown on the cover of these specifications for performing work on **SEWER AND WATER GROUP JOB 957** (Project).
- 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:

Replacement of 958 feet of Vitrified Clay (VC) sewer pipe and 2,851 feet of Cast Iron water pipe. The 8 and 14 inch sewer pipe and 6 to 20 inch water pipe will be replaced with new Polyvinyl Chloride (PVC) pipe. In addition the project will install 1,101 L.F. of new 8 to 18 inch PVC sewer pipe and 6,098 L.F. of water pipe, and abandonment of about 532 L.F. of sewer and 3800 L.F. of water pipe.

**2.1.** The Work shall be performed in accordance with:

**2.1.1.** This Notice Inviting Bids and Plans numbered **36689-1-D** through **36689-28-D**, and Traffic Control plans **36689-T01-D** through **36689-T54-D** inclusive.

### **3. EQUAL OPPORTUNITY**

- 3.1.** To The WHITEBOOK, Chapter 10, Sections D and E, DELETE in their entirety and SUBSTITUTE with the following:

#### **D. CITY'S EQUAL OPPORTUNITY COMMITMENT.**

##### **1. Nondiscrimination in Contracting Ordinance.**

1. The Contractor, Subcontractors and Suppliers shall comply with requirements of the City's Nondiscrimination in Contracting Ordinance, San Diego Municipal Code §§22.3501 through 22.3517.

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 clause shall be considered a material breach of the contract and may result in contract termination, debarment, or other sanctions.

The Contractor shall include the foregoing clause in all contracts between the Contractor and Subcontractors and Suppliers.

2. Disclosure of Discrimination Complaints. As part of its Bid or Proposal, the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors, or suppliers, and a description of

the status or resolution of that complaint, including any remedial action taken.

3. 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.
4. 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 §§22.3501 through 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 in Contracting Ordinance apply only to violations of the Ordinance.

#### **E. EQUAL EMPLOYMENT OPPORTUNITY OUTREACH PROGRAM.**

1. The Contractor, Subcontractors and Suppliers shall comply with the City's Equal Employment Opportunity Outreach Program, San Diego Municipal Code §§22.2701 through 22.2707.

The Contractor shall not discriminate against any employee or applicant for employment on any basis prohibited by law. Contractor shall provide equal opportunity in all employment practices. Prime Contractor shall ensure their subcontractors comply with this program. Nothing in this section shall be interpreted to hold a prime contractor liable for any discriminatory practice of its subcontractors.

The Contractor shall include the foregoing clause in all contracts between the Contractor and Subcontractors and Suppliers.

2. If the Contract is competitively solicited, the selected Bidder shall submit a Work Force Report (Form BB05), 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. If a Work Force Report is submitted, and the City determines there are under-representations when compared to County Labor Force Availability data, the selected Bidder shall submit an Equal Employment Opportunity Plan.
4. If the selected Bidder submits an Equal Employment Opportunity Plan, it shall include the following assurances:

1. The Contractor shall maintain a working environment free of discrimination, harassment, intimidation and coercion at all sites and in all facilities at which the Contractor's employees are assigned to work.
2. The Contractor reviews its EEO Policy, at least annually, with all on-site supervisors involved in employment decisions.
3. The Contractor disseminates and reviews its EEO Policy with all employees at least once a year, posts the policy statement and EEO posters on all company bulletin boards and job sites, and documents every dissemination, review and posting with a written record to identify the time, place, employees present, subject matter, and disposition of meetings.
4. The Contractor reviews, at least annually, all supervisors' adherence to and performance under the EEO Policy and maintains written documentation of these reviews.
5. The Contractor discusses its EEO Policy Statement with subcontractors with whom it anticipates doing business, includes the EEO Policy Statement in its subcontracts, and provides such documentation to the City upon request.
6. The Contractor documents and maintains a record of all bid solicitations and outreach efforts to and from subcontractors, contractor associations and other business associations.
7. The Contractor disseminates its EEO Policy externally through various media, including the media of people of color and women, in advertisements to recruit, maintains files documenting these efforts, and provides copies of these advertisements to the City upon request.
8. The Contractor disseminates its EEO Policy to union and community organizations.
9. The Contractor provides immediate written notification to the City when any union referral process has impeded the Contractor's efforts to maintain its EEO Policy.
10. The Contractor maintains a current list of recruitment sources, including those outreaching to people of color and women, and provides written notification of employment opportunities to these recruitment sources with a record of the organizations' responses.
11. The Contractor maintains a current file of names, addresses and phone numbers of each walk-in applicant, including people of color and women, and referrals from unions, recruitment sources, or community organizations with a description of the employment action taken.
12. The Contractor encourages all present employees, including people of color and women employees, to recruit others.

13. The Contractor maintains all employment selection process information with records of all tests and other selection criteria.
14. The Contractor develops and maintains documentation for on-the-job training opportunities, participates in training programs, or both for all of its employees, including people of color and women, and establishes apprenticeship, trainee, and upgrade programs relevant to the Contractor's employment needs.
15. The Contractor conducts, at least annually, an inventory and evaluation of all employees for promotional opportunities and encourages all employees to seek and prepare appropriately for such opportunities.
16. The Contractor ensures the company's working environment and activities are non-segregated except for providing separate or single-user toilets and necessary changing facilities to assure privacy between the sexes.

**4. SUBCONTRACTING PARTICIPATION PERCENTAGES.**

**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	<b>8.7 %</b>
2. ELBE participation	<b>13.6 %</b>
3. Total mandatory participation	<b>22.3 %</b>

**4.2.** The Bidders are strongly encouraged to attend the Pre-Bid Meeting to better understand the Good Faith Effort requirements of this contract. See the City's document titled "SLBE Program, Instructions For Bidders Completing The Good Faith Effort Submittal" available at: <http://www.sandiego.gov/eoc/>

**4.3.** The Bid will be declared non-responsive if the Bidder fails the following mandatory conditions:

- 4.3.1.** Bidder's inclusion of SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; OR
- 4.3.2.** 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 Day of the Bid opening if the overall mandatory participation percentage is not met.

**5. PRE-BID MEETING:**

- 5.1.** There will be a Pre-Bid Meeting to discuss the scope of the Project, bidding requirements, pre-qualification process, and Equal Opportunity Contracting Program requirements and reporting procedures in the **Public Works Contracting Group, Conference Room at 1010 Second Avenue, Suite 1400, San Diego, CA 92101** at **10:00 A.M., on MARCH 20<sup>th</sup>, 2013.**
- 5.2.** All potential bidders are encouraged to attend.
- 5.3.** 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) 533-3450 at least 5 Working Days prior to the Pre-Bid Meeting to ensure availability.

**6. CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM:**

- 6.1.** Prior to the Award of the Contract or each Task Order, you and your Subcontractors and Suppliers **must** register with Prism®, the City's web-based contract compliance portal at:

<https://pro.prismcompliance.com/default.aspx>.

- 6.2.** The City may not award the contract until registration of all subcontractors and suppliers is complete. In the event this requirement is not met within the time frame specified in the Notice of Intent to Award letter, the City reserves the right to rescind the Notice of Award / Intent to Award and to make the award to the next responsive and responsible bidder / proposer.

- 7. CONSTRUCTION COST:** The City's estimated construction cost for this contract is **\$3,455,000.00**

- 8. LOCATION OF WORK:** The location of the Work is as follows: The Project is located in the Downtown area. The Sewer and Water Group job 957 is located on F Street, Market Street, India Street, K Street, Third Avenue, and Fourth Avenue.

- 9. CONTRACT TIME:** The Contract Time for completion of the Work shall be **188 Working Days.**

- 10. 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.

- 10.1.** The City has determined the following licensing classifications for this contract:

<b>Option</b>	<b>Classification(s)</b>
1	CLASS A
2	CLASS C34

- 10.2.** The Bidder shall satisfy the licensing requirement by meeting **at least** one of the listed options.
- 11. JOINT VENTURE CONTRACTORS.** Provide a copy of the Joint Venture agreement and the Joint Venture license to the City within 10 Working Days after receiving the Contract forms. See 2-1.1.2, “Joint Venture Contractors” in The WHITEBOOK for details.
- 12. WAGE RATES:** Prevailing wages are not applicable to this contract.
- 13. INSURANCE REQUIREMENTS:**
- 13.1.** All certificates of insurance and endorsements required by the contract are to be provided upon issuance of the City’s Notice of Intent to Award letter.
- 13.2.** 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.
- 14. PREQUALIFICATION OF CONTRACTORS:**
- 14.1.** Contractors submitting Bid must be pre-qualified for the total amount proposed, inclusive of all alternate items prior to the date of submittal. Bids from contractors who have not been pre-qualified as applicable and Bids that exceed the maximum dollar amount at which contractors are pre-qualified will be deemed **non-responsive** and ineligible for award. Complete information and prequalification questionnaires are available at:
- <http://www.sandiego.gov/cip/bidopps/prequalification.shtml>
- 14.2.** 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 Project, Prequalification Program, 1010 Second Avenue, Suite 1200, San Diego, CA 92101. For additional information or the answer to questions about the prequalification program, contact David Stucky at 619-533-3474 or [dstucky@sandiego.gov](mailto:dstucky@sandiego.gov).
- 15. REFERENCE STANDARDS:** Except as otherwise noted or specified, the Work shall be completed in accordance with the following standards:

Title	Edition	Document Number
Standard Specifications for Public Works Construction (“The GREENBOOK”)	2012	PITS070112-01
City of San Diego Standard Specifications for Public Works Construction (“The WHITEBOOK”)*	2012	PITS070112-02
City of San Diego Standard Drawings*	2012	PITS070112-03
Caltrans Standard Specifications	2010	PITS070112-04

Title	Edition	Document Number
California MUTCD	2012	PITS070112-06
Standard Federal Equal Employment Opportunity Construction Contract Specifications and the Equal Opportunity Clause Dated 09-11-84	1984	769023
NOTE: Available online under Engineering Documents and References at: <a href="http://www.sandiego.gov/publicworks/edocref/index.shtml">http://www.sandiego.gov/publicworks/edocref/index.shtml</a> .		

- 16. 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.
- 17. CITY'S RIGHTS RESERVED:** The City reserves the right to cancel the Notice Inviting Bids at any time, and further reserves the right to reject submitted Bids, without giving any reason for such action, at its sole discretion and without liability. Costs incurred by the Bidder(s) as a result of preparing Bids under the Notice Inviting Bids shall be the sole responsibility of each bidder. The Notice Inviting Bids creates or imposes no obligation upon the City to enter a contract.
- 18. 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 in the Contract Documents.
- 19. SUBMITTAL OF "OR EQUAL" ITEMS:** See Section 4-1.6, "Trade Names or Equals" in The WHITEBOOK and as amended in the SSP.
- 20. AWARD PROCESS:**
- 20.1.** The Award of this contract is contingent upon the Contractor's compliance with all conditions precedent to Award.
  - 20.2.** Upon acceptance of a Bid, the City will prepare contract documents for execution within approximately 21 days of the date of the Bid opening and award the Contract approximately within 7 days of receipt of properly executed Contract, bonds, and insurance documents.
  - 20.3.** This contract will be deemed executed, and effective, only upon the signing of the Contract by the Mayor or designee of the City.
- 21. SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 2-3, "SUBCONTRACTS" in The WHITEBOOK and as amended in the SSP which requires the Contractor to self perform the amount therein stipulated. Failure to comply with these requirements may render the Bid **non-responsive** and ineligible for award.



- 22. AVAILABILITY OF PLANS AND SPECIFICATIONS:** Contract Documents may be obtained by visiting the City's website: <http://www.sandiego.gov/cip>. Plans and Specifications for this contract are also available for review in the office of the City Clerk or Public Works Contracting Group.
- 23. QUESTIONS:**
- 23.1.** 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, 1010 Second Avenue, Suite 1400, San Diego, California, 92101, and Telephone No. (619) 533-3450.
- 23.2.** Questions received less than 14 days prior to the date for opening of Bids may not be answered.
- 23.3.** 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.
- 23.4.** 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.
- 24. ELIGIBLE BIDDERS:** No person, firm, or corporation shall be allowed to make, file, or be interested in more than one (1) Bid for the same work unless alternate Bids are called for. A person, firm or corporation who has submitted a sub-proposal to a Bidder, or who has quoted prices on materials to a Bidder, is not hereby disqualified from submitting a sub-proposal or quoting prices to other Bidders or from submitting a Bid in its own behalf. Any Bidder who submits more than one bid will result in the rejection of all bids submitted.
- 25. SAN DIEGO BUSINESS TAX CERTIFICATE:** The Contractor and Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, first floor and submit to the Contract Specialist upon request or as specified in the Contract Documents. Tax Identification numbers for both the Bidder and the listed Subcontractors must be submitted on the City provided forms with the Notice Inviting Bids and Contract forms.
- 26. 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.
- 26.1.** Bidder shall complete and submit all pages in the "Bidding Document" 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 entire specifications for the bid package do not need to be submitted with the bid.

- 26.2. The City may require any Bidder to furnish a statement of experience, financial responsibility, technical ability, equipment, and references.
- 26.3. Bids and certain other forms and documents as specified in the Volume 2 of 2 of the Contract 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.
- 26.4. Bids may be withdrawn by the Bidder prior to, but not after, the time fixed for opening of Bids.
- 27. BIDDERS' GUARANTEE OF GOOD FAITH (BID SECURITY):**
- 27.1. With the exception of the contracts valued \$5,000 or less, JOC 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.
- 27.2. 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.
- 27.3. A Bid received without the specified bid security will be rejected as being **non-responsive**.
- 28. AWARD OF CONTRACT OR REJECTION OF BIDS:**
- 28.1. This contract may be awarded to the lowest responsible and reliable Bidder.
- 28.2. Bidders shall complete the entire Bid schedule (also referred to as "schedule of prices" or Proposal form). Incomplete price schedules will be rejected as being non-responsive.
- 28.3. 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.
- 28.4. 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.

- 28.5. 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-responsible in accordance with San Diego Municipal Code Chapter 2, § 22.3029, “Protests of Contract Award.”
- 28.6. 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.
- 28.7. 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 Proposal.
- 28.8. The City reserves the right to evaluate all Bids and determine the lowest Bidder on the basis of any proposed alternates, additive items or options, at its discretion that will be disclosed in the Volume 2 of 2.

**29. BID RESULTS:**

- 29.1. The Bid opening by the City shall constitute the public announcement of the Apparent Low Bidder. In the event that the Apparent Low Bidder is subsequently deemed non-responsive or non-responsible, a public announcement will be posted in the City’s web page: <http://www.sandiego.gov/cip/index.shtml>, with the name of the newly designated Apparent Low Bidder.
- 29.2. 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. Bid results cannot be given over the telephone.

**30. THE CONTRACT:**

- 30.1. The Bidder to whom award is made shall execute a written contract with the City of San Diego and furnish good and approved bonds and insurance certificates specified by the City within 14 days after receipt by Bidder of a form of contract for execution unless an extension of time is granted to the Bidder in writing.
- 30.2. If the Bidder takes longer than 14 days to fulfill these requirements, then the additional time taken shall be added to the Bid guarantee. The Contract shall be made in the form adopted by the City, which includes the provision that no claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
- 30.3. If the Bidder to whom the award is made fails to enter into the contract as herein provided, the award may be annulled and the Bidder's Guarantee of Good Faith will be subject to forfeiture. An award may be made to the next lowest responsible and

reliable Bidder who shall fulfill every stipulation embraced herein as if it were the party to whom the first award was made.

- 30.4.** Pursuant to the San Diego City Charter section 94, the City may only award a public works contract to the lowest responsible and reliable Bidder. The City will require the Apparent Low Bidder to (i) submit information to determine the Bidder's responsibility and reliability, (ii) execute the Contract in form provided by the City, and (iii) furnish good and approved bonds and insurance certificates specified by the City within 14 Days, unless otherwise approved by the City, in writing after the Bidder receives notification from the City, designating the Bidder as the Apparent Low Bidder and formally requesting the above mentioned items.
- 30.5.** The award of the Contract is contingent upon the satisfactory completion of the above mentioned items and becomes effective upon the signing of the Contract by the Mayor or designee. 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.
- 31. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK:** The Bidder shall examine carefully the Project Site, the Plans and Specifications, the JOC Unit Price Books if applicable, other materials as described in the Special Provisions, Section 2-7, and the proposal forms (e.g., Bidding Documents). The submission of a Bid or JOC 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.
- 32. CITY STANDARD PROVISIONS.** This contract is subject to the following standard provisions. See The WHITEBOOK for details.
- 32.1.** The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
- 32.2.** The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
- 32.3.** The City of San Diego Municipal Code §22.3004 for Pledge of Compliance.
- 32.4.** The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
- 32.5.** Sections 1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.
- 32.6.** The City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).

**32.7.** The City’s Information Security Policy (ISP) as defined in the City’s Administrative Regulation 90.63.

**33. PRE-AWARD ACTIVITIES:**

**33.1.** The selected contractor by the City to execute a contract for this Work 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**.

**33.2.** If the Bid is rejected as non-responsive, the selected contractor by the City to execute a contract for this Work shall forfeit the required Bid. The decision that the selected contractor by the City to execute a contract for this Work is non-responsive for failure to provide the information required within the time specified shall be at the sole discretion of the City.

**34. ADDITIVE/DEDUCTIVE ALTERNATES:**

**34.1.** The additive/deductive alternates have been established to allow the City to compare the cost of specific portions of the Work with the Project’s budget and enable the City to make decision prior to award. The award will be established as described in the Proposal. The City reserves the right to award the Contract for the Base Bid only or the Base Bid plus any combination of Additive and Deductive Alternate(s).

**34.2.** For water pipeline projects, the Plans typically show all cut and plug and connection work to be performed by City Forces. However, Bidders shall refer to Bidding Documents to see if all or part of this work will be performed by the Contractor.

**35. REQUIRED DOCUMENT SCHEDULE:**

**35.1.** 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.

**35.2.** 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 DUE	FROM	DOCUMENT TO BE SUBMITTED
1.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Bid
2.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Bid Bond
3.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Non-collusion Affidavit to be Executed By Bidder and Submitted with Bid under 23 USC 112 and PCC 7106

<b>ITEM</b>	<b>WHEN DUE</b>	<b>FROM</b>	<b>DOCUMENT TO BE SUBMITTED</b>
4.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Contractors Certification of Pending Actions
5.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Equal Benefits Ordinance Certification of Compliance
6.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Form AA35 - List of Subcontractors
7.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Form AA40 - Named Equipment/Material Supplier List
8.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Form AA45 - Subcontractors Additive/Deductive Alternate
9.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	SLBE Good Faith Efforts Documentation
10.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	Form AA60 – List of Work Made Available
11.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	Proof of Valid DBE-MBE-WBE-DVBE Certification Status e.g., Certs.
12.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Names of the principal individual owners of the Apparent Low Bidder
13.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	If the Contractor is a Joint Venture: <ul style="list-style-type: none"> <li>• Joint Venture Agreement</li> <li>• Joint Venture License</li> </ul>
14.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Form BB05 - Work Force Report
15.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms – Agreement
16.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Payment and Performance Bond

ITEM	WHEN DUE	FROM	DOCUMENT TO BE SUBMITTED
17.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Certificates of Insurance and Endorsements
18.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - Drug-Free Workplace
19.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - American with Disabilities Act
20.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractors Standards - Pledge of Compliance

**CONTRACT FORMS**  
**AGREEMENT**



## CONTRACT FORMS AGREEMENT

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### CONSTRUCTION CONTRACT

This contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and **TC CONSTRUCTION, INC.**, herein called "Contractor" for construction of **SEWER AND WATER GROUP JOB 957; Bid No. K-13-5811-DBB-3-C**, in the amount of **THREE MILLION SIX HUNDRED NINETY-FIVE THOUSAND ONE HUNDRED FOURTY-FOUR DOLLARS AND 00/100 (\$3,695,144.00)**, which is comprised of the Base Bid plus **Additive Alternates A & B**.

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

1. The following are incorporated into this contract as though fully set forth herein:
  - (a) The attached Faithful Performance and Payment Bonds.
  - (b) The attached Proposal included in the Bid documents by the Contractor.
  - (c) Reference Standards listed in the Notice Inviting Bids and the Supplementary Special Provisions (SSP).
  - (d) That certain documents entitled **SEWER AND WATER GROUP JOB 957**, on file in the office of the City Clerk as Document No. **B-11152, B-11154**, as well as all matters referenced therein.
2. The Contractor shall perform and be bound by all the terms and conditions of this contract and in strict conformity therewith shall perform and complete in a good and workmanlike manner **SEWER AND WATER GROUP JOB 957**, Bid No. **K-13-5811-DBB-3-C**, San Diego, California.
3. For such performances, the City shall pay to Contractor the amounts set forth at the times and in the manner and with such additions or deductions as are provided for in this contract, and the Contractor shall accept such payment in full satisfaction of all claims incident to such performances.
4. No claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
5. This contract is effective as of the date that the Mayor or designee signs the agreement.

CONTRACT 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 Municipal Code §22.3102 authorizing such execution.

THE CITY OF SAN DIEGO

APPROVED AS TO FORM AND LEGALITY

Jan I. Goldsmith, City Attorney

By Tony Heinrichs

By Pedro DeLara, Jr.

Print Name: Tony Heinrichs  
Director, Public Works

Print Name: Pedro DeLara, Jr.  
Deputy City Attorney

Date: 9/18/13

Date: 9/19/13

CONTRACTOR

By [Signature]

Print Name: Austin Cameron

Title: Secretary

Date: 06/28/2013

City of San Diego License No.: B1987004773

State Contractor's License No.: 402459

**CONTRACT/AGREEMENT  
ATTACHMENTS**

**CONTRACT ATTACHMENT**  
**PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND**

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

**TC CONSTRUCTION, INC** \_\_\_\_\_, a corporation, as principal, and  
**Liberty Mutual 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 **THREE MILLION SIX  
HUNDRED NINETY-FIVE THOUSAND ONE HUNDRED FORTY-FOUR DOLLARS AND  
00/100 (\$3,695,144.00)** for the faithful performance of the annexed contract, and in the sum of **THREE  
MILLION SIX HUNDRED NINETY-FIVE THOUSAND ONE HUNDRED FORTY-FOUR  
DOLLARS AND 00/100 (\$3,695,144.00)** for the benefit of laborers and materialmen designated below.

**Conditions:**

If the Principal shall faithfully perform the annexed contract **SEWER AND WATER GROUP  
JOB 957, Bid No. K-13-5811-DBB-3-C**, 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 ATTACHMENT (continued)**  
**PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND**

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

Dated June 21, 2013

Approved as to Form and Legality

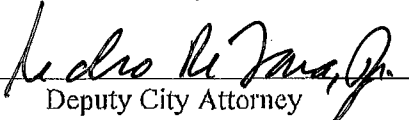
TC Construction Company, Inc.

Principal

By 

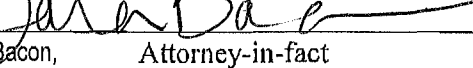
**Austin Cameron, Secretary**  
Printed Name of Person Signing for Principal

Jan I. Goldsmith, City Attorney

By   
Deputy City Attorney

Liberty Mutual Insurance Company


Surety

By   
Tafa Bacon, Attorney-in-fact

Approved:

790 The City Drive, Suite 200

Local Address of Surety

By   
Director, Public Works

Orange, CA 92868

Local Address (City, State) of Surety

(800) 763-9268

Local Telephone No. of Surety

Premium \$ 26,852.00

Bond No. 024046082

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

CIVIL CODE § 1189

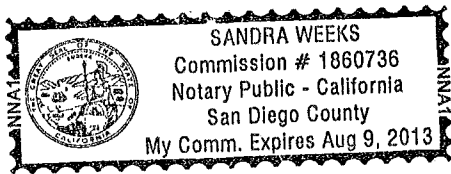
State of California

County of San Diego }

On June 28, 2013 before me, Sandra Weeks, Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Austin Cameron  
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: Sandra Weeks  
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  Individual

Partner —  Limited  General  Partner —  Limited  General

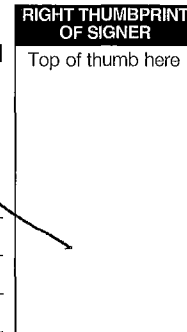
Attorney in Fact  Attorney in Fact

Trustee  Trustee

Guardian or Conservator  Guardian or Conservator

Other: \_\_\_\_\_  Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_ Signer Is Representing: \_\_\_\_\_



## ACKNOWLEDGMENT

State of California  
County of San Diego

On June 21, 2013 before me, Maria Hallmark, Notary Public, personally appeared Tara Bacon, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

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

WITNESS my hand and official seal.

Signature \_\_\_\_\_

*Maria Hallmark*



(Seal)

American Fire and Casualty Company  
The Ohio Casualty Insurance Company  
West American Insurance Company

Liberty Mutual Insurance Company  
Peerless Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American Fire & Casualty Company and The Ohio Casualty Insurance Company are corporations duly organized under the laws of the State of Ohio, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, that Peerless Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, **BRADLEY R. ORR; DALE G. HARSHAW; GEOFFREY SHELTON; KYLE KING; TARA BACON** .....

all of the city of SAN DIEGO, state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 21st day of June, 2012.



American Fire and Casualty Company  
The Ohio Casualty Insurance Company  
Liberty Mutual Insurance Company  
Peerless Insurance Company  
West American Insurance Company

By: Gregory W. Davenport  
Gregory W. Davenport, Assistant Secretary

STATE OF WASHINGTON ss  
COUNTY OF KING

On this 21st day of June, 2012, before me personally appeared Gregory W. Davenport, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Company, Peerless Insurance Company and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Seattle, Washington, on the day and year first above written.



By: KD Riley  
KD Riley, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, West American Insurance Company and Peerless Insurance Company, which resolutions are now in full force and effect reading as follows:

**ARTICLE IV – OFFICERS** – Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

**ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings.** Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

**Certificate of Designation** – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Gregory W. Davenport, Assistant Secretary to appoint such attorney-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

**Authorization** – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, David M. Carey, the undersigned, Assistant Secretary, of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, West American Insurance Company and Peerless Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 21st day of June, 20 13.



By: David M. Carey  
David M. Carey, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.



# CONTRACTOR CERTIFICATION

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## DRUG-FREE WORKPLACE

PROJECT TITLE: SEWER AND WATER GROUP JOB 957

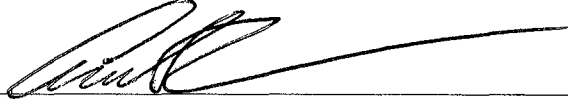
I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-17 regarding Drug-Free Workplace as outlined in the WHITEBOOK, Section 7-13.3, "Drug-Free Workplace", of the project specifications, and that;

TC Construction Co, Inc.

(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

Austin Cameron

Title

Secretary

# CONTRACTOR CERTIFICATION

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## AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

PROJECT TITLE: SEWER AND WATER GROUP JOB 957

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

TC Construction Co, Inc.

(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

Austin Cameron

Title

secretary

# CONTRACTOR CERTIFICATION

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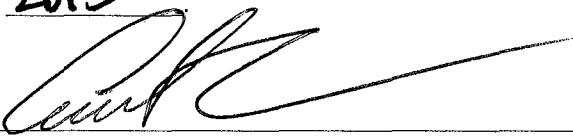
## CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

PROJECT TITLE: SEWER AND WATER GROUP JOB 957

I declare under penalty of perjury that I am authorized to make this certification on behalf of TC Construction Co, Inc., as Contractor, that I am familiar with the requirements of City of San Diego Municipal Code § 22.3224 regarding Contractor Standards as outlined in the WHITEBOOK, Section 7-13.4, ("Contractor Standards"), of the project specifications, and that Contractor has complied with those requirements.

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

Dated this 28<sup>th</sup> Day of June, 2013

Signed 

Printed Name Austin Cameron

Title Secretary

**AFFIDAVIT OF DISPOSAL**

**WHEREAS**, on the \_\_\_\_\_ DAY OF \_\_\_\_\_, \_\_\_\_\_, the undersigned entered into and executed a contract with the City of San Diego, a municipal corporation, for:

**SEWER AND WATER GROUP JOB 957**  
(Name of Project)

as particularly described in said contract and identified as Bid No. **K-13-5811-DBB-3-C**; SAP No. (WBS/IO/CC) **B-11152, B-11154** 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 \_\_\_\_\_, \_\_\_\_\_.

\_\_\_\_\_  
Contractor  
by

**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)**

## **SUPPLEMENTARY SPECIAL PROVISIONS**

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

- 1) Standard Specifications for Public Works Construction (The GREENBOOK) currently in effect.
- 2) The City of San Diego Standard Specifications for Public Works Construction (The WHITEBOOK).

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

#### **1-2 TERMS AND DEFINITIONS.**

**Normal Working Hours.** To the City Supplements, ADD the following:

The Normal Working Hours are 8:30 AM to 3:30 PM, unless otherwise shown on the Traffic Control Plans.

### **SECTION 2 - SCOPE AND CONTROL OF WORK**

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

1. You must perform, with your own organization, Contract work amounting to at least 50% 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 award.
2. The self performance percentage requirement will be waived for contracts when a “B” License is required or allowed.

#### **2-5.3.2 Working Drawings.** TABLE 2-5.3.2(A), ADD the following:

<b>Item</b>	<b>Section No.</b>	<b>Title</b>	<b>Subject</b>
17	306-1.6	Water Valve Bypass for Mainlines 16” and Larger	SDW-154 <sup>*</sup>

<sup>\*</sup>Note: The distance dimensions shown between the bypass pipes and between bypass pipes and the mainlines are subject to change to field conditions.

## SECTION 4 - CONTROL OF MATERIALS

### 4-1.6 Trade Names or Equals. ADD the following:

You must submit your list of proposed substitutions for “an equal” (“or equal”) item(s) **no less than 15 Working Days prior to Bid due date** and on a City form when provided by the City.

## SECTION 6 – PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK

### 6-7.1 General. ADD the following:

The following must be included in the stipulated Contract Time:

All shutdown request for water mains 16-inch and larger shall be submitted to Public Utilities System Operation in August 2013. Shutdown will take place during October 1<sup>st</sup> through May 30<sup>th</sup> only.

## 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 the Contract.

### 7-3.1 Policies and Procedures.

1. You must procure the insurance described below, at its sole cost and expense, to provide coverage against claims for loss including injuries to persons or damage to property, which may arise out of or in connection with the performance of the Work by you, your agents, representatives, officers, employees or Subcontractors.
2. Insurance coverage for property damage resulting from your operations is on a replacement cost valuation. The market value will not be accepted.
3. You 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 the Contract, e.g., your indemnity obligations, is not deemed limited to the insurance coverage required by this contract.
4. 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.
5. 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 the Contract. Your failure to maintain or renew coverage or to provide evidence of renewal during the term of the Contract may be treated by the City as a material breach of the Contract.

**7-3.2 Types of Insurance.**

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

1. Commercial General Liability Insurance 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.
2. 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).
3. 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.
4. 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.**

1. 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”).
2. All costs of defense must be outside the limits of the policy.

**7-3.2.3 Contractors Pollution Liability Insurance.**

1. 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.

2. 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.
3. 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.
4. 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.
5. 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.
6. 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.

**7-3.2.4 Contractors Hazardous Transporters Pollution Liability Insurance.**

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

4. Contractual liability 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. Occurrence based policies must be procured before the Work commences and must be maintained for the duration of this contract. Claims Made policies must be procured before the Work commences, must be maintained for the duration of this contract, 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 under this contract without advancing the retroactive date.
5. 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.

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

**7-3.3 Rating Requirements.** Except for the State Compensation Insurance Fund, all insurance required by this contract as described herein 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 Approved Surplus Lines Insurers (LASLI 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.

**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.

## **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.
- c) 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.
- d) 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 your 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 Contractors Hazardous Transporters Pollution Liability Insurance Endorsements.**

#### **7-3.5.4.1 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.

**7-3.5.4.2 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.

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

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

**7-3.8 Notice of Changes to Insurance.** You must notify the City 30 days prior to any material change to the policies of insurance provided under this contract.

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

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

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

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

3. By signing and returning the 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 must 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 Supplements, ADD the following:

The City will obtain, at no cost to the Contractor; the following permit:

1. Center City Development Corporation (CCDC).  
Contractor to obtain Metropolitan Transit System (MTS) permit as required per Appendix "I" of this Specifications.

**7-8.6 Water Pollution Control.** ADD the following:

1. Based on a preliminary assessment by the City, the Contract is subject to WPCP.

**7-15 INDEMNIFICATION AND HOLD HARMLESS AGREEMENT.** To the City Supplements, fourth paragraph, last sentence, DELETE in its entirety and SUBSTITUTE with the following:

Your duty to indemnify and hold harmless does not include any claims or liability arising from the established active or sole negligence, or willful misconduct of the City, its officers, or employees.

#### **SECTION 8 - FACILITIES FOR AGENCY PERSONNEL**

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

#### **SECTION 9 - MEASUREMENT AND PAYMENT**

**9-3.2.5 Withholding of Payment.** To the City Supplements, item i), DELETE in its entirety and SUBSTITUTE with the following:

- i) Your failure to comply with 7-2.3, "PAYROLL RECORDS" and 2-16, "CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM."

**ADD:**

**9-3.7** Compensation Adjustments for Price Index Fluctuations. This Contract is not subject to the provisions of The WHITEBOOK for Compensation Adjustments for Price Index Fluctuations for the paving asphalt.

#### **SECTION 203 – BITUMINOUS MATERIALS**

**203-15 RUBBER POLYMER MODIFIED SLURRY (RPMS).** RPMS shall be used on this contract.

#### **SECTION 300 – EARTHWORK**

**300-1.4 Payment.** To the City Supplements, paragraph (2), DELETE in its entirety and SUBSTITUTE with the following:

2. Payment for existing pavement removal and disposal of up to 14" 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

**302-3 Preparatory Repair Work.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

**302-3 Preparatory Repair Work.**

1. Prior to roadway resurfacing or the application of slurry, the Contractor shall complete all necessary preparation and repair work to the road segment e.g., tree trimming, weed spray, weed abatement, crack sealing, asphalt repair, hump removal, miscellaneous asphalt patching, removal of raised pavement markers, removal of pavement markings, etc. and as specified in the Special Provisions.
2. Preparatory work shall include, but not be limited to, tree trimming, weed spray, weed abatement, crack sealing, asphalt repair i.e., mill and pave, hump removal, miscellaneous asphalt patching, removal of raised pavement markers, removal of pavement markings, etc.
3. The Contractor shall repair areas of distressed asphalt concrete pavement by milling or removing damaged areas of pavement to a minimum depth of 2” for Residential streets, and a minimum depth of 3” for all others to expose firm and unyielding pavement. The Contractor shall prepare subgrade as needed and install a minimum of 2” for residential streets, and a minimum of 3” for all others, of compacted asphalt concrete pavement over compacted native material as directed by the Engineer.
4. If, in order to achieve the minimum specified depth, the base material is exposed, the material shall be compacted to 95% relative compaction to a depth 10” below the finished grade (dig out). Compaction tests shall be made to ensure compliance with the specifications. The Engineer will determine when and where the test will occur. The City will pay for the soils testing required by the Engineer, which meets the required compaction. The Contractor shall reimburse the City for the cost of retesting failing compaction tests. If additional base material is required, the Contractor shall use Class 2 Aggregate Base in accordance with 200-2.2, “Crushed Aggregate Base.”
5. Recycled base material shall conform to Crushed Miscellaneous Base Material in accordance with 200-2.4, “Crushed Miscellaneous Aggregate Base.”
6. Prior to replacing asphalt, the area shall be cleaned by removing all loose and damaged material, moisture, dirt, and other foreign matter and shall be tack coated in accordance with 302-5.4 “Tack Coat.”
7. The Contractor shall install new asphalt within the repair area or for patches in accordance with 302-5, “ASPHALT CONCRETE PAVEMENT.” Asphalt concrete shall be C2-PG 64-10 in compliance with 400-4, “ASPHALT CONCRETE.”
8. No preparatory asphalt work shall be done when the atmospheric temperature is below 50 °F or during unsuitable weather.
9. Following the asphalt placement, the Contractor shall roll the entire area of new asphalt in both directions at least twice. The finished patch shall be level and smooth in compliance with 302-5.6.2 “Density and Smoothness.” After placement and compaction of the asphalt patch, the Contractor shall seal all finished edges with a 4” wide continuous band of SS-1H.



10. The minimum dimension for each individual repair shall be 4' x 4' and shall be subject to the following conditions:
  - a) If the base material is exposed to achieve the required minimum removal thickness, the base material shall be prepared conforming to 301-1, "SUBGRADE PREPARATION."
  - b) When additional base material is required, then the contractor shall use Class 2 Aggregate Base in accordance with 200-2.2, "Crushed Aggregate Base." Recycled base material shall conform to Crushed Miscellaneous Base Material in accordance with 200-2.4, "Crushed Miscellaneous Base."
  - c) The Contractor may use grinding as a method for removal of deteriorated pavement when the areas indicated for removal are large enough (a minimum of the machine drum width) and when approved by the Engineer.
  - d) For both scheduled and unscheduled base repairs, failed areas may be removed by milling or by excavation provided that the edges are cut cleanly with a saw. The areas shall be cleaned and tack coated in accordance with 302-5.4, "Tack Coat" before replacing the asphalt. The areas for scheduled repairs have been marked on the street.

### **302-3.1 Asphalt Patching.**

1. Asphalt patching shall consist of patching potholes, gutter-line erosion, and other low spots in the pavement that are deeper than ½" per 302-5.6.2, "Density and Smoothness." These areas are generally smaller and more isolated than those areas in need of mill and pave.
2. The areas requiring patching have been identified in the Contract Documents, marked on the streets, or as directed by the Engineer. The Contractor shall identify any new areas that may require patching prior to slurry work to ensure the smoothness and quality of the finished product.
3. The Contractor shall identify and repair any areas that may require patching, prior to the placement of slurry seal for smooth finished product.
4. Asphalt overlay shall not be applied over deteriorated pavement. Preparatory asphalt work shall be completed and approved by the Engineer before proceeding with asphalt overlay.
5. The Contractor shall remove distressed asphalt pavement either by saw cutting or milling, to expose firm and unyielding pavement; prepare subgrade (as needed); and install compacted asphalt concrete pavement over compacted native material as directed by the Engineer.
6. Prior to replacing asphalt, the area shall be cleaned and tack coated per 302-5.4, "Tack Coat".
7. Following the asphalt placement, the Contractor shall roll the entire patch in both directions covering the patch at least twice.
8. After placement and compaction of the asphalt patch, the Contractor shall seal all finished edges with a 4" wide continuous band of SS-1H.
9. Base repairs shall not exceed 20% RAP in content.

### 302-3.2

#### **Payment.**

1. Payment for replacement of existing pavement when required shall be included in the unit bid price for Asphalt Pavement repair for the total area replaced and no additional payment shall be made regardless of the number of replacements completed. No payment shall be made for areas of over excavation or outside trench areas in utility works unless previously approved by the Engineer. No payment for pavement replacement will be made when the damage is due to the Contractor's failure to protect existing improvements. The Contractor shall reimburse the City for the cost of retesting all failing compaction tests.
2. The areas and quantities shown on the road segments and in appendices are given only for the Contractor's aid in planning the Work and preparing Bids. The Engineer will designate the limits to be removed and these designated areas shall be considered to take precedent over the area shown in an Appendix to the Contract Documents. The quantities shown in the appendices are based on a street assessment survey and may vary.
3. At the end of each day, the Contractor shall submit to the Engineer an itemized list of the asphalt pavement repair work completed. The list shall include the location of the work and the exact square footage of the repair.
4. Preparatory repair work and tack coating will be paid at the Contract unit price per ton for Asphalt Pavement Repair. No payment shall be made for areas of over excavation unless previously approved by the Engineer.
5. Milling shall be included in the Bid item for Asphalt Pavement Repair unless separate Bid item has been provided.
6. Payment for miscellaneous asphalt patching shall be included in the Contract unit price for slurry and no additional payment shall be made therefore.

### 302-5.1.1

**Damaged AC Pavement Replacement.** To the City Supplement, DELETE in its entirety.

### 302-5.1.2

**Measurement and Payment.** To the City Supplement, DELETE in its entirety.

**SECTION 306 – UNDERGROUND CONDUIT CONSTRUCTION**

**306-1 OPEN TRENCH OPERATIONS.** To the City Supplements, CORRECT certain section numbering as follows:

<b>OLD SECTION NUMBER</b>	<b>TITLE</b>	<b>NEW SECTION NUMBER</b>
<b>306-1.8</b>	<b>House Connection Sewer (Laterals) and Cleanouts</b>	<b>306-1.9</b>
<b>306-1.7.1</b>	<b>Payment</b>	<b>306-1.9.1</b>
<b>306-1.7.2</b>	<b>Sewer Lateral with Private Replumbing</b>	<b>306-1.9.2</b>
<b>306-1.7.2.1</b>	<b>location</b>	<b>306-1.9.2-1</b>
<b>306-1.7.2.2</b>	<b>Permits</b>	<b>306-1.9.2-2</b>
<b>306-1.7.2.3</b>	<b>Submittals</b>	<b>306-1.9.2-3</b>
<b>306-1.7.2.4</b>	<b>Trenchless Construction</b>	<b>306-1.9.2-4</b>
<b>306-1.7.2.5</b>	<b>Payment</b>	<b>306-1.9.2-5</b>
<b>306-1.7.3.6</b>	<b>Private Pump Installation</b>	<b>306-1.9.2-6</b>
<b>306-1.7.3.7</b>	<b>Payment</b>	<b>306-1.9.2-7</b>

**306-1.6 Basis of Payment for Open Trench Installations.** ADD the following:

Payment for imported backfill when the Contractor elects to import material from a source outside the project limits and when authorized by the Engineer shall be included in the Bid unit price for Imported Backfill. The price shall include the removal and disposal of unsuitable materials.

**306-22 Pipe Fusion.** DELETE in its entirety.

**SECTION 705 – WATER DISCHARGES**

**705-2.6.3 Community Health and Safety Plan.** To the City Supplements, DELETE in its entirety and SUBSTITUTE with the following:

**705-2.6.3 Community Health and Safety Plan.** See 703-2, “Community Health and Safety Plan.”

**705-2.6.1 General.** Paragraph (3), CORRECT reference to Section 803 to read “Section 703.”

**SECTION 707 – RESOURCE DISCOVERIES**

**ADD:**

**707-1.1 Environmental Document.** The City of San Diego Environmental Analysis Section (EAS) of the Development Services Department has prepared Mitigated Negative

Declaration (MND) for Sewer and Water Group Job 957, DEP No. 280094, as referenced in the Contract Appendix. You must comply with all requirements of the MND as set forth in the Contract Appendix.

Compliance with the City's environmental document is included in the various Bid items, unless a bid item has been provided.

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

**SUPPLEMENTARY SPECIAL PROVISIONS**

**APPENDICES**

**APPENDIX A**

**Mitigated Negative Declaration (MND)**



**ADDENDUM TO  
MITIGATED NEGATIVE DECLARATION No. 255100  
SCH No. 2011091045**

Project No. 280094

**SUBJECT:** Sewer and Water Group 957 CITY COUNCIL APPROVAL to allow for the replacement and installation of 11,008 linear feet (LF) (2.08 miles) of sewer and water mains comprised of 2,059 LF of sewer and 8,949 LF of water pipes. 958 LF of 8-inch and 14-inch vitrified clay (VC) sewer mains would be replaced with similar sized polyvinyl chloride (PVC) pipe in existing trenches at a similar depths between 5 and 20 feet; 1,101 LF of new 8-inch and 15-inch PVC sewer mains would be installed in new trenches ranging between 7 and 23 feet deep; 2,851 LF of 6-inch, 12-inch, 16-inch and 20-inch cast iron (CI) water mains would be replaced with similar size PVC water mains in the same trench as a shallower depth ranging between 3 to 5 feet; and 6,098 LF of new 8-inch, 12-inch, and 16-inch PVC water mains would be installed in new trenches ranging from 3 to 5 feet deep. In addition, 615 LF of existing 6-inch sewer and 2,608 LF of existing 10-inch, 12-inch, and 16-inch water main would be abandoned in place.

The project would be located in the Downtown and Greater Golden Hill Community Plan area, all within the public right-of-way and would affect portions of the following streets: India Street, State Street, F Street, Market Street, 3<sup>rd</sup> Avenue, K Street, 4<sup>th</sup> Avenue and A Street. Applicant: City of San Diego, Public Works – Engineering & Capital Projects Department, Right of Way Design Division.

**I. PROJECT DESCRIPTION:**

The open trench method of construction would be employed to install the sewer and water pipeline and appurtenances. Trench depths of the trenches would vary from 7 to 23 feet deep depending on the topography of the area. The widths of the trenches would be approximately three to five feet wide. Other components of the projects would include abandonment and potholing. Abandonment would involve plugging both ends of the existing pipe with concrete, through existing manholes, and would not disturb the surface or subsurface. Potholing is employed to verify the reconnection of sewer laterals to mains or to verify utility crossings. Other improvements will consist of curb ramps, manholes, new pavement/slurry, the removal and/or replacement of street trees and the removal and/or replacement of street lights.

All work would occur within the public right-of-way (ROW) in developed streets and alleys. Activated work hours would occur during the daytime, Monday through Friday. The project would comply with the requirements described in the *Standard Specifications*

*for Public Works Construction, and California Department of Transportation Manual of Traffic Controls for construction and Maintenance Work Zones. A traffic control plan would be prepared and implemented in accordance with the City of San Diego Standard Drawings Manual of Traffic Control for Construction and Maintenance Work Zones.*

## II. ENVIRONMENTAL SETTING:

The project would be located in the public right-of-way and is not in or adjacent to the City's Multi-Habitat Planning Area (MHPA). The following portions of streets and adjacent alleys would be affected by the project: India Street, State Street, F Street, Market Street, 3<sup>rd</sup> Avenue, K Street, 4<sup>th</sup> Avenue and A Street. All of these streets are located within the Downtown and Greater Golden Hill Community Planning areas (Figure 1).

## III. PROJECT BACKGROUND:

A Citywide Pipelines Projects Mitigated Negative Declaration (MND) No. 255100 was prepared by the City of San Diego's Environmental Analysis Section (EAS) and was certified by City Council on November 30, 2011 (resolution number 307122). The Citywide Pipelines Projects MND provides for the inclusion of subsequent pipeline projects that are located within the public right-of-way and would not result in any direct impacts to sensitive biological resources. Pursuant to the City of San Diego's Municipal Code Section 128.036(b) all addenda for environmental documents certified more than 3 years before the date of application shall be distributed for public review for 14 calendar days along with the previously certified environmental document. Therefore this addendum is not being distributed for a 14 calendar day public review.

### Historical Resources (Archaeology)

MND No. 255100 analyzed historical resources in relation to pipeline projects and determined that if after a thorough review of the archaeological data no direct impacts were identified to known archaeological sites then the project could addend the MND. A record search of the California Historic Resources Information System (CHRIS) digital database was reviewed to determine presence or absence of potential resources within the project alignments. No archaeological resources were identified within the project areas. However, Sewer and Water Group 957 is located on the City's Historic Sensitivity Map and would require archaeological monitoring in case of unexpected discoveries. Compliance with the Mitigation, Monitoring and Reporting Program would reduce all potential impacts to Historical Resources to below a level of CEQA significance.

### Historical Resources (Built Environment)

Segments of the pipeline project are located within the Gaslamp and Golden Hill designated historical districts. MND No. 255100 concluded that pipeline projects located within the public right of way could result in significant environmental impacts to Historical Resources (Built Environment).



Any near-term or future project which is located within a designated historical district would be subject to review by qualified historical staff to determine whether the project would have an adverse effect on the district requiring specific mitigation, as detailed in Section V., of the MND or if the project requires further review in accordance with the Historical Resources Regulations.

### Paleontological Resources

Paleontological resources were analyzed in the MND 255100 which included mitigation to reduce impacts to paleontological resources to below a level of significance. The Bay Point geologic formation underlies the project area. The geologic Baypoint formation underlies the Sewer and Water Group 957. With respect to paleontological fossil resource potential, the Baypoint formation is assigned a high sensitivity. Based on the sensitivity of the affected formation and the proposed excavation depths, construction of Sewer Group 957 could result in significant impacts to paleontological resources. To reduce this impact to below a level of significance, excavation within previously undisturbed formations at a depth of 10 or more feet would be monitored by a qualified paleontologist or paleontological monitor. Any significant paleontological resources encountered would be recovered and curated in accordance with the Mitigation Monitoring and Reporting Program (MMRP) detailed in Section V.

#### IV. DETERMINATION:

The City of San Diego previously prepared a Mitigated Negative Declaration No. 255100 for the project described in the attached MND and Initial Study.

Based upon a review of the current project, it has been determined that:

- a. There are no new significant environmental impacts not considered in the previous MND;
- b. No substantial changes have occurred with respect to the circumstances under which the project is undertaken; and
- c. There is no new information of substantial importance to the project.

Therefore, in accordance with Section 15164 of the State CEQA Guidelines this addendum has been prepared. No public review of this addendum is required.

#### V. MITIGATION, MONITORING AND REPORTING PROGRAM INCORPORATED INTO THE PROJECT:

### PALEONTOLOGICAL RESOURCES

#### I. Prior to Permit Issuance or Bid Opening/Bid Award

##### A. Entitlements Plan Check

1. Prior to permit issuance or Bid Opening/Bid Award, whichever is applicable, the Assistant Deputy Director (ADD) Environmental designee shall verify that the

requirements for Paleontological Monitoring have been noted on the appropriate construction documents.

**B. Letters of Qualification have been submitted to ADD**

1. Prior to Bid Award, the applicant shall submit a letter of verification to Mitigation Monitoring Coordination (MMC) identifying the Principal Investigator (PI) for the project and the names of all persons involved in the paleontological monitoring program, as defined in the City of San Diego Paleontology Guidelines.
2. MMC will provide a letter to the applicant confirming the qualifications of the PI and all persons involved in the paleontological monitoring of the project.
3. Prior to the start of work, the applicant shall obtain approval from MMC for any personnel changes associated with the monitoring program.

**II. Prior to Start of Construction**

**A. Verification of Records Search**

1. The PI shall provide verification to MMC that a site specific records search has been completed. Verification includes, but is not limited to a copy of a confirmation letter from San Diego Natural History Museum, other institution or, if the search was in-house, a letter of verification from the PI stating that the search was completed.
2. The letter shall introduce any pertinent information concerning expectations and probabilities of discovery during trenching and/or grading activities.

**B. PI Shall Attend Precon Meetings**

1. Prior to beginning any work that requires monitoring, the Applicant shall arrange a Precon Meeting that shall include the PI, Construction Manager (CM) and/or Grading Contractor, Resident Engineer (RE), Building Inspector (BI), if appropriate, and MMC. The qualified paleontologist shall attend any grading/excavation related Precon Meetings to make comments and/or suggestions concerning the Paleontological Monitoring program with the Construction Manager and/or Grading Contractor.
  - a. If the PI is unable to attend the Precon Meeting, the Applicant shall schedule a focused Precon Meeting with MMC, the PI, RE, CM or BI, if appropriate, prior to the start of any work that requires monitoring.
2. Acknowledgement of Responsibility for Curation (CIP or Other Public Projects)  
The applicant shall submit a letter to MMC acknowledging their responsibility for the cost of curation associated with all phases of the paleontological monitoring program.
3. Identify Areas to be Monitored
  - a. Prior to the start of any work that requires monitoring, the PI shall submit a Paleontological Monitoring Exhibit (PME) based on the appropriate construction documents (reduced to 11x17) to MMC for approval identifying the areas to be monitored including the delineation of grading/excavation limits. Monitoring shall begin at depths below 10 feet from existing grade or as determined by the PI in consultation with MMC. The determination shall be based on site specific records search data which supports monitoring at depths less than

ten feet.

- b. b. The PME shall be based on the results of a site specific records search as well as information regarding existing known soil conditions (native or formation).
- c. c. MMC shall notify the PI that the PME has been approved.
- d. 4. When Monitoring Will Occur
  - a. Prior to the start of any work, the PI shall also submit a construction schedule to MMC through the RE indicating when and where monitoring will occur.
  - b. The PI may submit a detailed letter to MMC prior to the start of work or during construction requesting a modification to the monitoring program. This request shall be based on relevant information such as review of final construction documents which indicate conditions such as depth of excavation and/or site graded to bedrock, presence or absence of fossil resources, etc., which may reduce or increase the potential for resources to be present.
5. Approval of PME and Construction Schedule  
After approval of the PME by MMC, the PI shall submit to MMC written authorization of the PME and Construction Schedule from the CM.

### III. During Construction

#### A. Monitor Shall be Present During Grading/Excavation/Trenching

1. The monitor shall be present full-time during grading/excavation/trenching activities including, but not limited to mainline, laterals, jacking and receiving pits, services and all other appurtenances associated with underground utilities as identified on the PME that could result in impacts to formations with high and/or moderate resource sensitivity. **The Construction Manager is responsible for notifying the RE, PI, and MMC of changes to any construction activities such as in the case of a potential safety concern within the area being monitored. In certain circumstances OSHA safety requirements may necessitate modification of the PME.**
2. The PI may submit a detailed letter to MMC during construction requesting a modification to the monitoring program when a field condition such as trenching activities that do not encounter formational soils as previously assumed, and/or when unique/unusual fossils are encountered, which may reduce or increase the potential for resources to be present.
3. The monitor shall document field activity via the Consultant Site Visit Record (CSVr). The CSVr's shall be faxed by the CM to the RE the first day of monitoring, the last day of monitoring, monthly (**Notification of Monitoring Completion**), and in the case of ANY discoveries. The RE shall forward copies to MMC.

#### B. Discovery Notification Process

1. In the event of a discovery, the Paleontological Monitor shall direct the contractor to temporarily divert trenching activities in the area of discovery and immediately notify the RE or BI, as appropriate.
2. The Monitor shall immediately notify the PI (unless Monitor is the PI) of the discovery.

3. The PI shall immediately notify MMC by phone of the discovery, and shall also submit written documentation to MMC within 24 hours by fax or email with photos of the resource in context, if possible.
- C. Determination of Significance
1. The PI shall evaluate the significance of the resource.
    - a. The PI shall immediately notify MMC by phone to discuss significance determination and shall also submit a letter to MMC indicating whether additional mitigation is required. The determination of significance for fossil discoveries shall be at the discretion of the PI.
    - b. If the resource is significant, the PI shall submit a Paleontological Recovery Program (PRP) and obtain written approval of the program from MMC, MC and/or RE. PRP and any mitigation must be approved by MMC, RE and/or CM before ground disturbing activities in the area of discovery will be allowed to resume.
      - (1). Note: For pipeline trenching projects only, the PI shall implement the Discovery Process for Pipeline Trenching projects identified below under "D."
    - c. If resource is not significant (e.g., small pieces of broken common shell fragments or other scattered common fossils) the PI shall notify the RE, or BI as appropriate, that a non-significant discovery has been made. The Paleontologist shall continue to monitor the area without notification to MMC unless a significant resource is encountered.
    - d. The PI shall submit a letter to MMC indicating that fossil resources will be collected, curated, and documented in the Final Monitoring Report. The letter shall also indicate that no further work is required.
      - (1). Note: For Pipeline Trenching Projects Only. If the fossil discovery is limited in size, both in length and depth; the information value is limited and there are no unique fossil features associated with the discovery area, then the discovery should be considered not significant.
      - (2). Note, for Pipeline Trenching Projects Only: If significance can not be determined, the Final Monitoring Report and Site Record shall identify the discovery as Potentially Significant.
- D. Discovery Process for Significant Resources - Pipeline Trenching Projects
- The following procedure constitutes adequate mitigation of a significant discovery encountered during pipeline trenching activities including but not limited to excavation for jacking pits, receiving pits, laterals, and manholes to reduce impacts to below a level of significance.
1. Procedures for documentation, curation and reporting
    - a. One hundred percent of the fossil resources within the trench alignment and width shall be documented in-situ photographically, drawn in plan view (trench and profiles of side walls), recovered from the trench and photographed after cleaning, then analyzed and curated consistent with Society of Invertebrate Paleontology Standards. The remainder of the deposit within the limits of excavation (trench walls) shall be left intact and so documented.

- b. The PI shall prepare a Draft Monitoring Report and submit to MMC via the RE as indicated in Section VI-A.
- c. The PI shall be responsible for recording (on the appropriate forms for the San Diego Natural History Museum) the resource(s) encountered during the Paleontological Monitoring Program in accordance with the City's Paleontological Guidelines. The forms shall be submitted to the San Diego Natural History Museum and included in the Final Monitoring Report.
- d. The Final Monitoring Report shall include a recommendation for monitoring of any future work in the vicinity of the resource.

**IV. Night and/or Weekend Work**

- A. If night and/or weekend work is included in the contract
  - 1. When night and/or weekend 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 no discoveries were encountered during night and/or weekend work, The PI shall record the information on the CSVR and submit to MMC via the RE via fax by 8AM on the next business day.
    - b. Discoveries  
All discoveries shall be processed and documented using the existing procedures detailed in Sections III - During Construction.
    - c. Potentially Significant Discoveries  
If the PI determines that a potentially significant discovery has been made, the procedures detailed under Section III - During Construction shall be followed.
    - d. The PI shall immediately contact the RE and MMC, or by 8AM on the next business day to report and discuss the findings as indicated in Section III-B, unless other specific arrangements have been made.
- B. If night and/or weekend 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, shall notify MMC immediately.
- C. All other procedures described above shall apply, as appropriate.

**V. Post Construction**

- A. Preparation and Submittal of Draft Monitoring Report
  - 1. The PI shall submit two copies of the Draft Monitoring Report (even if negative), prepared in accordance with the Paleontological Guidelines which describes the results, analysis, and conclusions of all phases of the Paleontological Monitoring Program (with appropriate graphics) to MMC via the RE for review and approval within 90 days following the completion of monitoring,
    - a. For significant paleontological resources encountered during monitoring, the Paleontological Recovery Program or Pipeline Trenching Discovery Process shall be included in the Draft Monitoring Report.
    - b. Recording Sites with the San Diego Natural History Museum

- The PI shall be responsible for recording (on the appropriate forms) any significant or potentially significant fossil resources encountered during the Paleontological Monitoring Program in accordance with the City's Paleontological Guidelines, and submittal of such forms to the San Diego Natural History Museum with the Final Monitoring Report.
2. MMC shall return the Draft Monitoring Report to the PI via the RE for revision or, for preparation of the Final Report.
  3. The PI shall submit revised Draft Monitoring Report to MMC via the RE for approval.
  4. MMC shall provide written verification to the PI of the approved report.
  5. MMC shall notify the RE or BI, as appropriate, of receipt of all Draft Monitoring Report submittals and approvals.
- B. Handling of Fossil Remains
1. The PI shall be responsible for ensuring that all fossil remains collected are cleaned and catalogued.
- C. Curation of artifacts: Deed of Gift and Acceptance Verification
1. The PI shall be responsible for ensuring that all fossil remains associated with the monitoring for this project are permanently curated with an appropriate institution.
  2. The PI shall submit the Deed of Gift and catalogue record(s) to the RE or BI, as appropriate for donor signature with a copy submitted to MMC.
  3. The RE or BI, as appropriate shall obtain signature on the Deed of Gift and shall return to PI with copy submitted to MMC.
  4. The PI shall include the Acceptance Verification from the curation institution in the Final Monitoring Report submitted to the RE or BI and MMC.
- D. Final Monitoring Report(s)
1. The PI shall submit two copies of the Final Monitoring Report to MMC (even if negative), within 90 days after notification from MMC of the approved report.
  2. The RE shall, in no case, issue the Notice of Completion until receiving a copy of the approved Final Monitoring Report from MMC which includes the Acceptance Verification from the curation institution.

## **HISTORICAL RESOURCES (ARCHAEOLOGY)**

### **Prior to Permit Issuance or Bid Opening/Bid Award**

- A. Entitlements Plan Check
1. Prior to permit issuance or Bid Opening/Bid Award, whichever is applicable, the Assistant Deputy Director (ADD) Environmental designee shall verify that the requirements for Archaeological Monitoring and Native American monitoring have been noted on the applicable construction documents through the plan check process.
- B. Letters of Qualification have been submitted to ADD
1. Prior to Bid Award, the applicant shall submit a letter of verification to Mitigation Monitoring Coordination (MMC) identifying the Principal Investigator (PI) for the project and the names of all persons involved in the archaeological monitoring program, as defined in the City of San Diego Historical Resources Guidelines

(HRG). If applicable, individuals involved in the archaeological monitoring program must have completed the 40-hour HAZWOPER training with certification documentation.

2. MMC will provide a letter to the applicant confirming the qualifications of the PI and all persons involved in the archaeological monitoring of the project meet the qualifications established in the HRG.
3. Prior to the start of work, the applicant must obtain written approval from MMC for any personnel changes associated with the monitoring program.

## **II. Prior to Start of Construction**

### **A. Verification of Records Search**

1. The PI shall provide verification to MMC that a site specific records search (1/4 mile radius) has been completed. Verification includes, but is not limited to a copy of a confirmation letter from South Coastal Information Center, or, if the search was in-house, a letter of verification from the PI stating that the search was completed.
2. The letter shall introduce any pertinent information concerning expectations and probabilities of discovery during trenching and/or grading activities.
3. The PI may submit a detailed letter to MMC requesting a reduction to the 1/4 mile radius.

### **B. PI Shall Attend Precon Meetings**

1. Prior to beginning any work that requires monitoring; the Applicant shall arrange a Precon Meeting that shall include the PI, Native American consultant/monitor (where Native American resources may be impacted), Construction Manager (CM) and/or Grading Contractor, Resident Engineer (RE), Building Inspector (BI), if appropriate, and MMC. The qualified Archaeologist and Native American Monitor shall attend any grading/excavation related Precon Meetings to make comments and/or suggestions concerning the Archaeological Monitoring program with the Construction Manager and/or Grading Contractor.
  - a. If the PI is unable to attend the Precon Meeting, the Applicant shall schedule a focused Precon Meeting with MMC, the PI, RE, CM or BI, if appropriate, prior to the start of any work that requires monitoring.
2. Acknowledgement of Responsibility for Curation (CIP or Other Public Projects)  
The applicant shall submit a letter to MMC acknowledging their responsibility for the cost of curation associated with all phases of the archaeological monitoring program.
3. Identify Areas to be Monitored
  - a. Prior to the start of any work that requires monitoring, the PI shall submit an Archaeological Monitoring Exhibit (AME) (with verification that the AME has been reviewed and approved by the Native American consultant/monitor when Native American resources may be impacted) based on the appropriate construction documents (reduced to 11x17) to MMC identifying the areas to be monitored including the delineation of grading/excavation limits.
    - b. The AME shall be based on the results of a site specific records search as well as information regarding the age of existing pipelines, laterals and associated

- appurtenances and/or any known soil conditions (native or formation).
    - c. MMC shall notify the PI that the AME has been approved.
  - 4. When Monitoring Will Occur
    - a. Prior to the start of any work, the PI shall also submit a construction schedule to MMC through the RE indicating when and where monitoring will occur.
    - b. The PI may submit a detailed letter to MMC prior to the start of work or during construction requesting a modification to the monitoring program. This request shall be based on relevant information such as review of final construction documents which indicate conditions such as age of existing pipe to be replaced, depth of excavation and/or site graded to bedrock, etc., which may reduce or increase the potential for resources to be present.
  - 5. Approval of AME and Construction Schedule
 

After approval of the AME by MMC, the PI shall submit to MMC written authorization of the AME and Construction Schedule from the CM.

### III. During Construction

#### A. Monitor Shall be Present During Grading/Excavation/Trenching

1. The Archaeological Monitor shall be present full-time during all soil disturbing and grading/excavation/trenching activities which could result in impacts to archaeological resources as identified on the AME. **The Construction Manager is responsible for notifying the RE, PI, and MMC of changes to any construction activities such as in the case of a potential safety concern within the area being monitored. In certain circumstances OSHA safety requirements may necessitate modification of the AME.**
2. The Native American consultant/monitor shall determine the extent of their presence during soil disturbing and grading/excavation/trenching activities based on the AME and provide that information to the PI and MMC. If prehistoric resources are encountered during the Native American consultant/monitor's absence, work shall stop and the Discovery Notification Process detailed in Section III.B-C and IV.A-D shall commence.
3. The PI may submit a detailed letter to MMC during construction requesting a modification to the monitoring program when a field condition such as modern disturbance post-dating the previous grading/trenching activities, presence of fossil formations, or when native soils are encountered that may reduce or increase the potential for resources to be present.
4. The archaeological and Native American consultant/monitor shall document field activity via the Consultant Site Visit Record (CSVSR). The CSVSR's shall be faxed by the CM to the RE the first day of monitoring, the last day of monitoring, monthly (**Notification of Monitoring Completion**), and in the case of ANY discoveries. The RE shall forward copies to MMC.

#### B. Discovery Notification Process

1. In the event of a discovery, the Archaeological Monitor shall direct the contractor to temporarily divert all soil disturbing activities, including but not limited to digging, trenching, excavating or grading activities in the area of discovery and in the area reasonably suspected to overlay adjacent resources and immediately notify the RE or BI, as appropriate.



2. The Monitor shall immediately notify the PI (unless Monitor is the PI) of the discovery.
3. The PI shall immediately notify MMC by phone of the discovery, and shall also submit written documentation to MMC within 24 hours by fax or email with photos of the resource in context, if possible.
4. No soil shall be exported off-site until a determination can be made regarding the significance of the resource specifically if Native American resources are encountered.

C. Determination of Significance

1. The PI and Native American consultant/monitor, where Native American resources are discovered shall evaluate the significance of the resource. If Human Remains are involved, follow protocol in Section IV below.
  - a. The PI shall immediately notify MMC by phone to discuss significance determination and shall also submit a letter to MMC indicating whether additional mitigation is required.
  - b. If the resource is significant, the PI shall submit an Archaeological Data Recovery Program (ADRP) and obtain written approval of the program from MMC, CM and RE. ADRP and any mitigation must be approved by MMC, RE and/or CM before ground disturbing activities in the area of discovery will be allowed to resume. **Note: If a unique archaeological site is also an historical resource as defined in CEQA Section 15064.5, then the limits on the amount(s) that a project applicant may be required to pay to cover mitigation costs as indicated in CEQA Section 21083.2 shall not apply.**
    - (1). Note: For pipeline trenching and other linear projects in the public Right-of-Way, the PI shall implement the Discovery Process for Pipeline Trenching projects identified below under "D."
  - c. If the resource is not significant, the PI shall submit a letter to MMC indicating that artifacts will be collected, curated, and documented in the Final Monitoring Report. The letter shall also indicate that that no further work is required.
    - (1). Note: For Pipeline Trenching and other linear projects in the public Right-of-Way, if the deposit is limited in size, both in length and depth; the information value is limited and is not associated with any other resource; and there are no unique features/artifacts associated with the deposit, the discovery should be considered not significant.
    - (2). Note, for Pipeline Trenching and other linear projects in the public Right-of-Way, if significance cannot be determined, the Final Monitoring Report and Site Record (DPR Form 523A/B) shall identify the discovery as Potentially Significant.

D. Discovery Process for Significant Resources - Pipeline Trenching and other Linear Projects in the Public Right-of-Way

The following procedure constitutes adequate mitigation of a significant discovery encountered during pipeline trenching activities or for other linear project types within the Public Right-of-Way including but not limited to excavation for jacking pits, receiving pits, laterals, and manholes to reduce impacts to below a level of significance:

1. Procedures for documentation, curation and reporting
  - a. One hundred percent 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. The remainder of the deposit within the limits of excavation (trench walls) shall be left intact.
  - b. The PI shall prepare a Draft Monitoring Report and submit to MMC via the RE as indicated in Section VI-A.
  - c. The PI shall be responsible for recording (on the appropriate State of California Department of Park and Recreation forms-DPR 523 A/B) the resource(s) encountered during the Archaeological Monitoring Program in accordance with the City's Historical Resources Guidelines. The DPR forms shall be submitted to the South Coastal Information Center for either a Primary Record or SDI Number and included in the Final Monitoring Report.
  - d. The Final Monitoring Report shall include a recommendation for monitoring of any future work in the vicinity of the resource.

#### IV. Discovery of Human Remains

If human remains are discovered, work shall halt in that area and no soil shall be exported off-site until a determination can be made regarding the provenance of the human remains; and the following procedures as set forth in CEQA Section 15064.5(e), the California Public Resources Code (Sec. 5097.98) and State Health and Safety Code (Sec. 7050.5) shall be undertaken:

##### A. Notification

1. Archaeological Monitor shall notify the RE or BI as appropriate, MMC, and the PI, if the Monitor is not qualified as a PI. MMC will notify the appropriate Senior Planner in the Environmental Analysis Section (EAS) of the Development Services Department to assist with the discovery notification process.
2. The PI shall notify the Medical Examiner after consultation with the RE, either in person or via telephone.

##### B. Isolate discovery site

1. Work shall be directed away from the location of the discovery and any nearby area reasonably suspected to overlay adjacent human remains until a determination can be made by the Medical Examiner in consultation with the PI concerning the provenience of the remains.
2. The Medical Examiner, in consultation with the PI, will determine the need for a field examination to determine the provenience.
3. If a field examination is not warranted, the Medical Examiner will determine with input from the PI, if the remains are or are most likely to be of Native American origin.

##### C. If Human Remains **ARE** determined to be Native American

1. The Medical Examiner will notify the Native American Heritage Commission (NAHC) within 24 hours. By law, **ONLY** the Medical Examiner can make this call.
2. NAHC will immediately identify the person or persons determined to be the Most Likely Descendent (MLD) and provide contact information.

3. The MLD will contact the PI within 24 hours or sooner after the Medical Examiner has completed coordination, to begin the consultation process in accordance with CEQA Section 15064.5(e), the California Public Resources and Health & Safety Codes.
  4. The MLD will have 48 hours to make recommendations to the property owner or representative, for the treatment or disposition with proper dignity, of the human remains and associated grave goods.
  5. Disposition of Native American Human Remains will be determined between the MLD and the PI, and, if:
    - a. The NAHC is unable to identify the MLD, OR the MLD failed to make a recommendation within 48 hours after being notified by the Commission, OR;
    - b. 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, THEN
    - c. To protect these sites, the landowner shall do one or more of the following:
      - (1) Record the site with the NAHC;
      - (2) Record an open space or conservation easement; or
      - (3) Record a document with the County.
    - d. Upon the discovery of multiple Native American human remains during a ground disturbing land development activity, the landowner may agree that additional conferral with descendants is necessary to consider culturally appropriate treatment of multiple Native American human remains. Culturally appropriate treatment of such a discovery may be ascertained from review of the site utilizing cultural and archaeological standards. Where the parties are unable to agree on the appropriate treatment measures the human remains and items associated and buried with Native American human remains shall be reinterred with appropriate dignity, pursuant to Section 5.c., above.
- D. If Human Remains are **NOT** Native American
1. The PI shall contact the Medical Examiner and notify them of the historic era context of the burial.
  2. The Medical Examiner will determine the appropriate course of action with the PI and City staff (PRC 5097.98).
  3. If the remains are of historic origin, they shall be appropriately removed and conveyed to the San Diego Museum of Man for analysis. The decision for internment of the human remains shall be made in consultation with MMC, EAS, the applicant/landowner, any known descendant group, and the San Diego Museum of Man.

**V. Night and/or Weekend Work**

- A. If night and/or weekend work is included in the contract
1. When night and/or weekend 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 no discoveries were encountered during night and/or weekend work, the PI shall record the information on the CSVR and submit to MMC via fax by 8AM of the next business day.

- b. Discoveries  
All discoveries shall be processed and documented using the existing procedures detailed in Sections III - During Construction, and IV – Discovery of Human Remains. Discovery of human remains shall always be treated as a significant discovery.
  - c. Potentially Significant Discoveries  
If the PI determines that a potentially significant discovery has been made, the procedures detailed under Section III - During Construction and IV-Discovery of Human Remains shall be followed.
  - d. The PI shall immediately contact the RE and MMC, or by 8AM of the next business day to report and discuss the findings as indicated in Section III-B, unless other specific arrangements have been made.
- B. If night and/or weekend 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, shall notify MMC immediately.
  - C. All other procedures described above shall apply, as appropriate.

## VI. Post Construction

- A. Submittal of Draft Monitoring Report
  - 1. The PI shall submit two copies of the Draft Monitoring Report (even if negative), prepared in accordance with the Historical Resources Guidelines (Appendix C/D) which describes the results, analysis, and conclusions of all phases of the Archaeological Monitoring Program (with appropriate graphics) to MMC via the RE for review and approval within 90 days following the completion of monitoring. **It should be noted that if the PI is unable to submit the Draft Monitoring Report within the allotted 90-day timeframe as a result of delays with analysis, special study results or other complex issues, a schedule shall be submitted to MMC establishing agreed due dates and the provision for submittal of monthly status reports until this measure can be met.**
    - a. For significant archaeological resources encountered during monitoring, the Archaeological Data Recovery Program or Pipeline Trenching Discovery Process shall be included in the Draft Monitoring Report.
    - b. Recording Sites with State of California Department of Parks and Recreation  
The PI 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 Monitoring Report.
  - 2. MMC shall return the Draft Monitoring Report to the PI via the RE for revision or, for preparation of the Final Report.
  - 3. The PI shall submit revised Draft Monitoring Report to MMC via the RE for approval.
  - 4. MMC shall provide written verification to the PI of the approved report.

5. MMC shall notify the RE or BI, as appropriate, of receipt of all Draft Monitoring Report submittals and approvals.
- B. Handling of Artifacts
1. The PI shall be responsible for ensuring that all cultural remains collected are cleaned and catalogued
  2. The PI shall be responsible for ensuring 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.
- C. Curation of artifacts: Accession Agreement and Acceptance Verification
1. The PI shall be responsible for ensuring that all artifacts associated with the survey, testing and/or data recovery for this project are permanently curated with an appropriate institution. This shall be completed in consultation with MMC and the Native American representative, as applicable.
  2. When applicable to the situation, the PI shall include written verification from the Native American consultant/monitor indicating that Native American resources were treated in accordance with state law and/or applicable agreements. If the resources were reinterred, verification shall be provided to show what protective measures were taken to ensure no further disturbance occurs in accordance with Section IV – Discovery of Human Remains, Subsection C.
  3. The PI shall submit the Accession Agreement and catalogue record(s) to the RE or BI, as appropriate for donor signature with a copy submitted to MMC.
  4. The RE or BI, as appropriate shall obtain signature on the Accession Agreement and shall return to PI with copy submitted to MMC.
  5. The PI shall include the Acceptance Verification from the curation institution in the Final Monitoring Report submitted to the RE or BI and MMC.
- D. Final Monitoring Report(s)
1. The PI shall submit one copy of the approved Final Monitoring Report to the RE or BI as appropriate, and one copy to MMC (even if negative), within 90 days after notification from MMC of the approved report.
  2. The RE shall, in no case, issue the Notice of Completion until receiving a copy of the approved Final Monitoring Report from MMC which includes the Acceptance Verification from the curation institution.

### **HISTORICAL RESOURCES (BUILT ENVIRONMENT)**

The project is located within the Golden Hill and Gaslamp Quarter Historic Districts, the Gaslamp Quarter extends from the south side of Broadway to Harbor Drive, and from the east side of Fourth Avenue to the west side of Sixth Avenue. Also included is the west side of Fourth Avenue between Market Street and Island Avenue. The Golden Hill Historic District is bounded by Russ Boulevard on the north, Highway 94 on the south, 25<sup>th</sup> Street on the east, and 24<sup>th</sup> Street on the west.

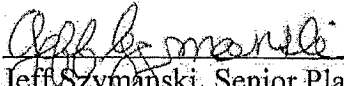
All work within the District boundary must be consistent with the City's Historical Resources Regulations, the U.S. Secretary of the Interior's Standards and the Gaslamp Quarter Planned District Design Guidelines and the Golden Hill Design Criteria and

Guidelines. The following mitigation measures are required within the Districts boundaries and shall ensure consistency with these regulations, Standards and guidelines.

- A. Prior to beginning any work at the site, a Pre Construction meeting that includes Historic Resources and MMC staff shall be held at the project site to review these mitigation measures and requirements within the District boundary.
- B. A Historic Sidewalk Stamp Inventory prepared by a qualified historic consultant or archaeologist and approved by HRB staff is required prior to the Pre-Construction (Pre-Con) meeting. The Inventory shall include photo documentation of all existing stamps within the project area keyed to a project site plan.
- C. Existing sidewalk stamps shall be preserved in place. Where existing sidewalk stamps must be impacted to accommodate right-of-way improvements, the following actions are required:
  1. A mold of the sidewalk stamp will be made to allow reconstruction of the stamp if destroyed during relocation.
  2. The sidewalk stamp shall be saw-cut to preserve the stamp in its entirety; relocated as near as possible to the original location; and set in the same orientation.
  3. If the sidewalk stamp is destroyed during relocation, a new sidewalk stamp shall be made from the mold taken and relocated as near as possible to the original location and set in the same orientation.
- D. No new sidewalk stamps shall be added by any contractor working on the project.
- E. Existing historic sidewalk, parkway and street widths shall be maintained. Any work that requires alteration of these widths shall be approved by Historic Resources staff.
- F. Existing historic curb heights and appearance shall be maintained. Any work that requires alteration of the existing height or appearance shall be approved by Historic Resources staff.
- G. Sections of sidewalk which may be impacted by the project shall be replaced in-kind to match the historic color, texture and scoring pattern of the original sidewalks. If the original color, scoring pattern or texture is not present at the location of the impact, the historically appropriate color, texture and scoring pattern found throughout the district shall be used.
- H. Truncated domes used at corner curb ramps shall be dark gray in color.
- I. Existing historic lighting, such as acorn lighting shall remain. New lighting shall be consistent with existing lighting fixtures, or fixtures specified in any applicable District Design Guidelines.
- J. Existing mature street trees shall remain. New street trees shall be consistent with the prevalent mature species in the District and/or species specified in any applicable District Design Guidelines.

- K. Any walls located within the right-of-way or on private property are considered historic and may not be impacted without prior review and approval by Historic Resources staff.

The above Mitigation Monitoring and Reporting Program will require additional fees and/or deposits to be collected prior to the issuance of building permits, certificates of occupancy and/or final maps to ensure the successful completion of the monitoring program.

  
Jeff Szymanski, Senior Planner  
Development Services Department

July 23, 2012  
Date of Final Report

Analyst: Jeff Szymanski

Attachments:

- Figure 1: Vicinity Map for Sewer Group 957
- Figure 2: Golden Hill Historic District
- Figure 3: Gaslamp Historic District
- Mitigated Negative Declaration #255100

The Addendum to Mitigated Negative Declaration No. 255100 was not distributed for public review pursuant to San Diego Municipal Code (SDMC) Chapter 6, Article 9, Paragraph 69.0211 (Addenda to Environmental Reports). The SDMC requires that addenda to environmental documents certified more than three years previously are to be distributed by Development Services Department (DSD) for a fourteen calendar-day public review period, along with the previously certified environmental document. Because the Mitigated Negative Declaration 255100 was certified on November 30, 2011, which is within the three year timeline, no additional public review is required. The final Addendum was distributed to the following groups and individuals for public disclosure in accordance with CEQA Section 15164.

VI. DISTRIBUTION:

Copies or notice of this Addendum were distributed to:

City of San Diego

Council Member Faulconer, District 2

Council Member Alvarez, District 8

City Attorney

Shannon Thomas (MS 93C)

Development Services Department

Angela Nazareno (MS 301)

Historic Resources Board (87)

City of San Diego, Public Works – Engineering & Capital Projects Department

Ali Mohammadian (MS 908A)  
James Arnhart (MS 908A)  
Library Dept.-Gov. Documents MS 17 (81)  
Central Library (81A)

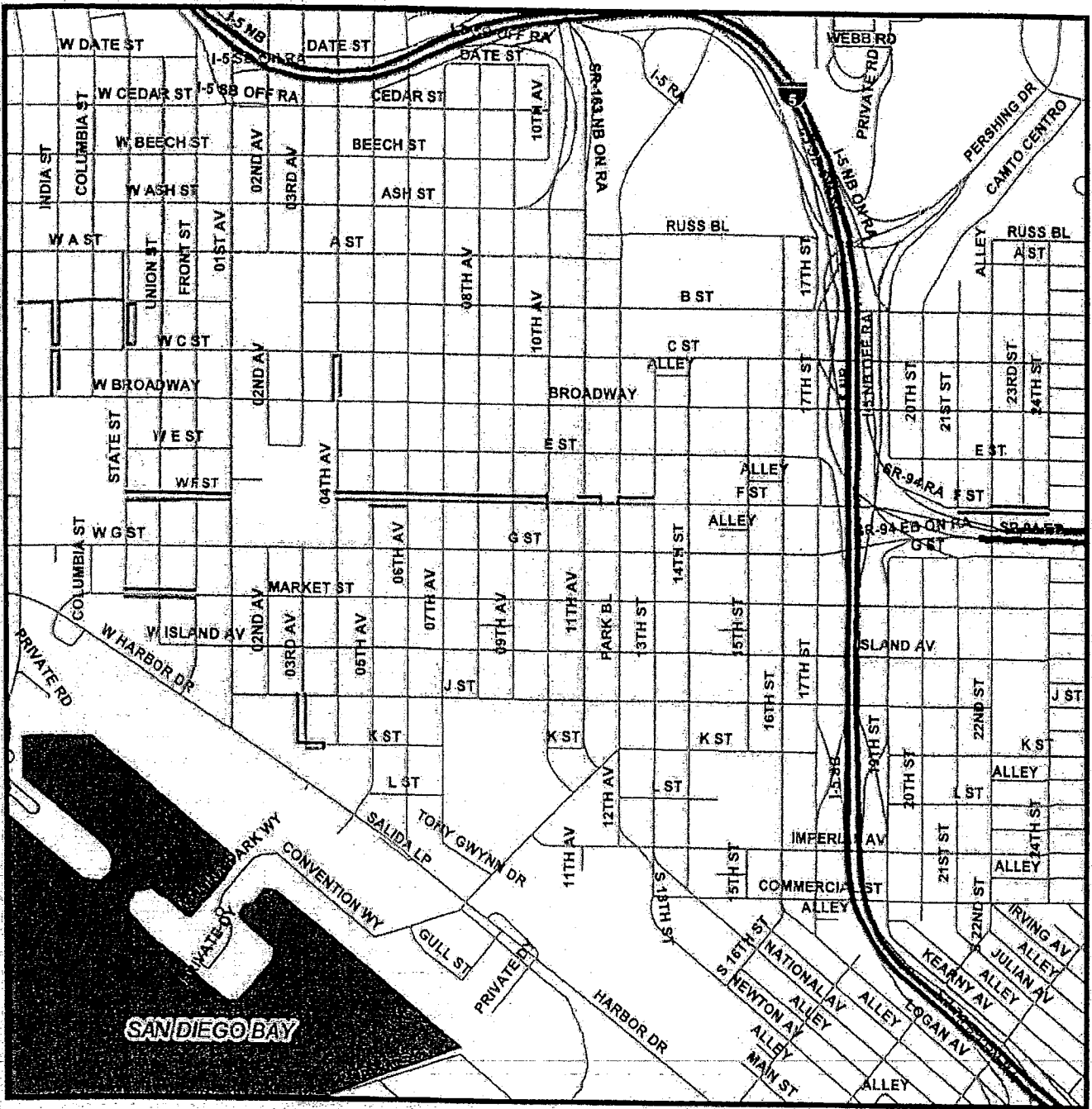
Other

Downtown San Diego Partnership (237)  
San Diego City College (238)  
Gaslamp Quarter Council (239)  
Unified Port of San Diego, Mellissa Mailander (240)  
Center City Development Corporation, Brad Richter (242)  
Center City Advisory Committee (243)  
Greater Golden Hill Planning Committee (259)  
San Diego Gas and Electric (114)  
San Diego Natural History Museum (166)  
South Coastal Information Center (210)  
San Diego Historical Society (211)  
San Diego Archaeological Center (212)  
Save Our Heritage Organisation (214)  
San Diego County Archaeological Society, Inc. (218)  
Carmen Lucas (206)  
Clint Linton (215b)  
Ron Christman (215)  
Louie Guassac (215A)  
Frank Brown (216)  
Kumeyaay Cultural Heritage Preservation (223)  
Kumeyaay Cultural Repatriation Committee (225)  
Native American Distribution (NOTICE ONLY 225A-R)

Copies of the addendum, the final MND, the Mitigation Monitoring and Reporting Program, and any technical appendices may be reviewed in the office of the Entitlements Division of the Development Services Department, or purchased for the cost of reproduction.



A PORTION OF ANY PLAN, EXCEPT EXHIBITS OR MAPS, IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.



**Legend**

- EX. WATER MAIN TO BE REPLACED IN PLACE
- NEW PARALLEL WATER MAIN
- EX. WATER MAIN TO BE ABANDONED
- PROPOSED SEWER ALIGNMENT



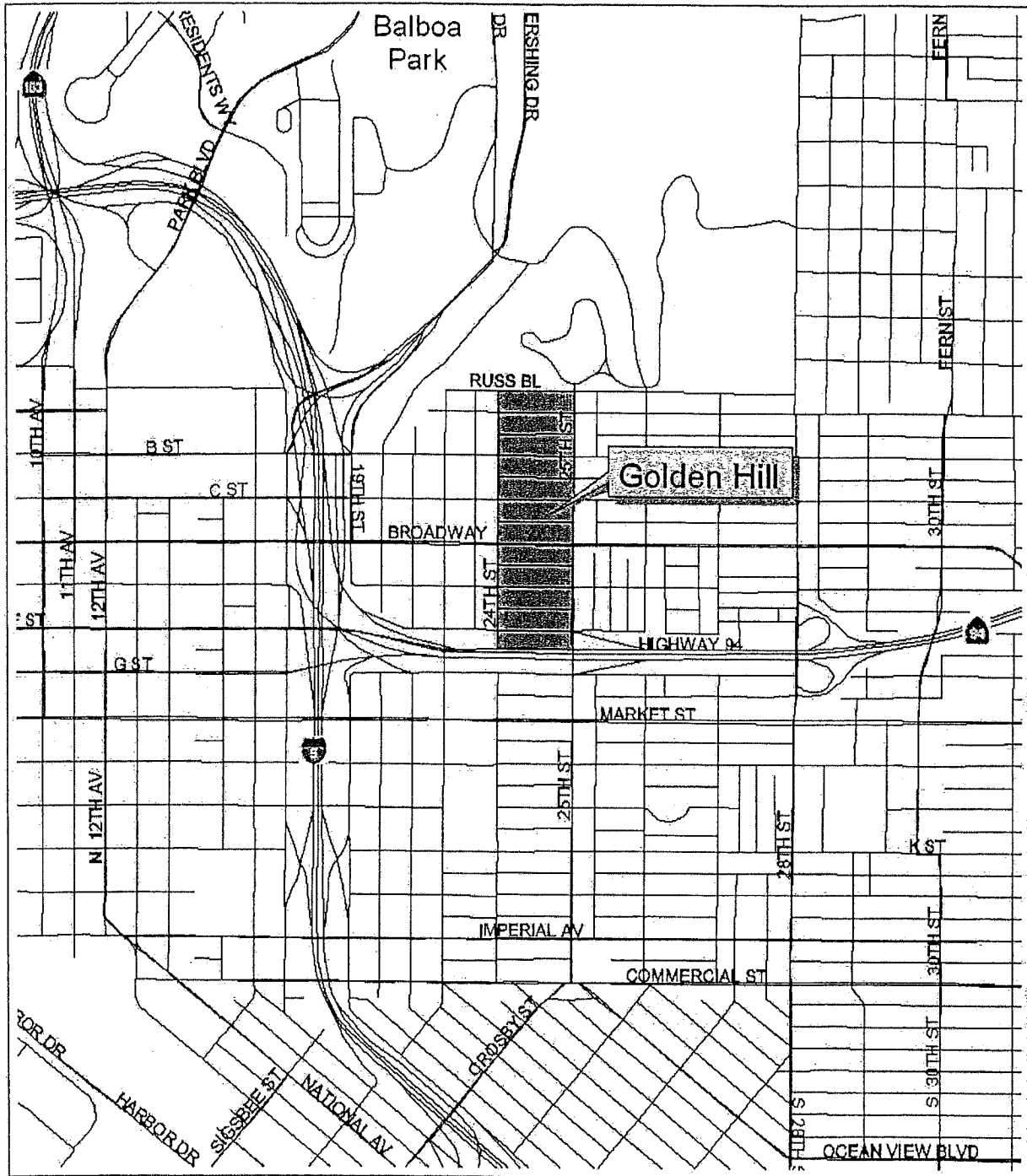
## Vicinity Map

Sewer and Water Group 957/Project No. 280094

City of San Diego – Development Services Department

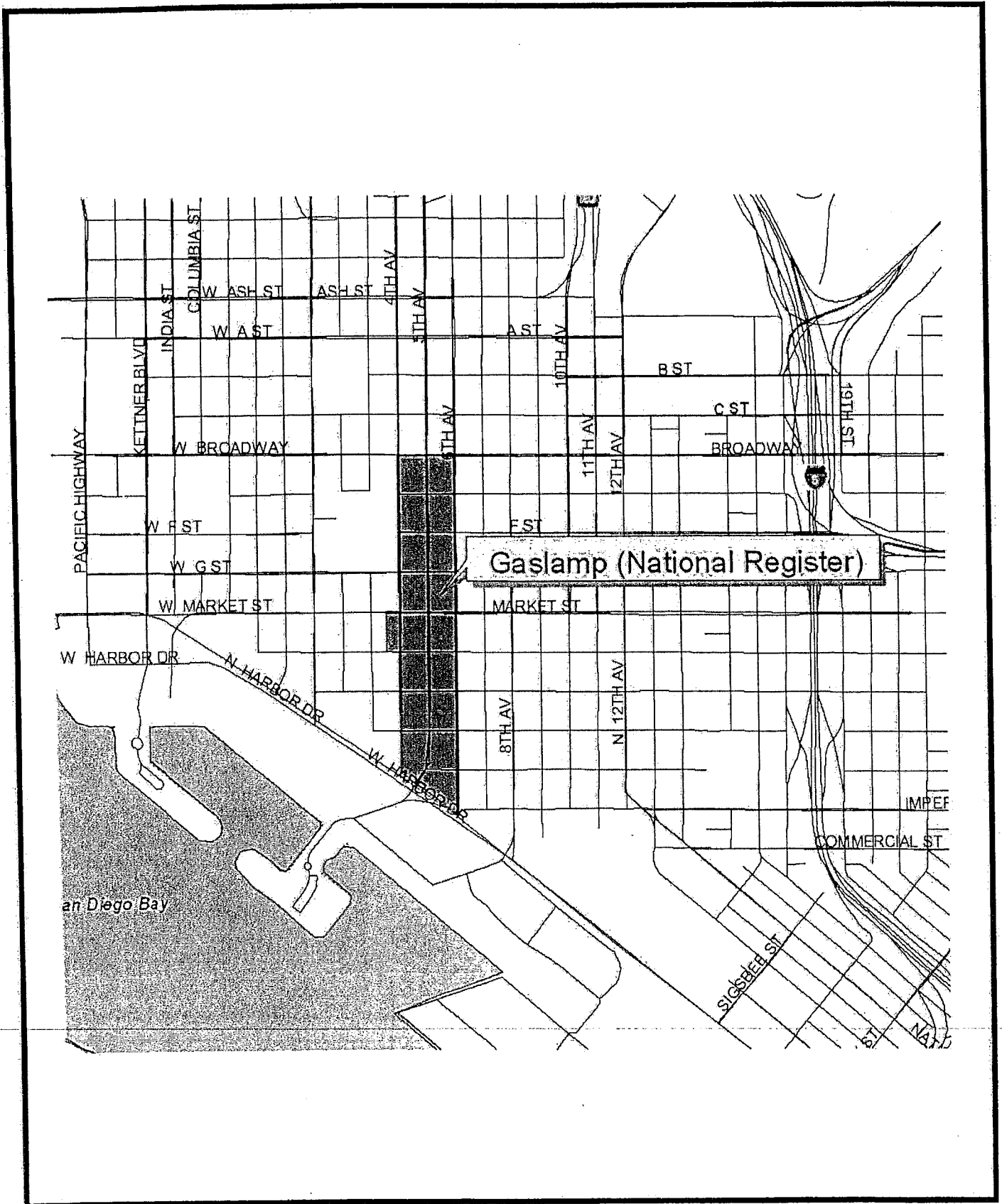
**FIGURE**

**No. 1**



**Golden Hill Historic District**  
 Sewer and Water Group 957/Project No. 280094  
 City of San Diego – Development Services Department

**FIGURE**  
**No. 2**  
 65 | Page



## Gaslamp Historic District

Sewer and Water Group 957/Project No. 280094

City of San Diego – Development Services Department

**FIGURE**

**No. 3**

**APPENDIX B**

**Fire Hydrant Meter Program**

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

1. **PURPOSE**

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

2. **AUTHORITY**

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

**Reference**

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

3. **DEFINITIONS**

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

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- 3.2 **Temporary Water Use:** Water provided to the customer for no longer than twelve (12) months.
- 3.3 **Backflow Preventor:** A Reduced Pressure Principal Assembly connected to the outlet side of a Fire Hydrant Meter.

4. **POLICY**

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



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

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

**4.6 Conditions and Processes for Issuance of a Fire Hydrant Meter**

Process for Issuance

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



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

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

#### 4.7 Relocation of Existing Fire Hydrant Meters

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

#### 4.8 Disconnection of Fire Hydrant Meter

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



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for removal of the meter.

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

5. **EXCEPTIONS**

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

6. **MOBILE METER**

- 6.1 Mobile meters will be allowed on a case by case basis. All mobile meters will be protected by an approved backflow assembly and the minimum requirement will be a Reduced Pressure Principal Assembly. The two types of Mobile Meters are vehicle mounted and floating meters. Each style of meters has separate guidelines that shall be followed for the customer to retain service and are described below:
  - a) **Vehicle Mounted Meters:** Customer applies for and receives a City owned Fire Hydrant Meter from the Meter Shop. The customer mounts the meter on the vehicle and brings it to the Meter Shop for

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

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

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

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

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



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7. **FEE AND DEPOSIT SCHEDULES**

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

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

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

- 8.1 Use of water from any fire hydrant without a properly issued and installed fire hydrant meter is theft of City property. Customers who use water for unauthorized purposes or without a City of San Diego issued meter will be prosecuted.
- 8.2 If any unauthorized connection, disconnection or relocation of a fire hydrant meter, or other connection device is made by anyone other than authorized Water Department personnel, the person making the connection will be prosecuted for a violation of San Diego Municipal Code, Section 67.15. In the case of a second offense, the customer's fire hydrant meter shall be confiscated and/or the deposit will be forfeited.
- 8.3 Unauthorized water use shall be billed to the responsible party. Water use charges shall be based on meter readings, or estimates when meter readings are not available.
- 8.4 In case of unauthorized water use, the customer shall be billed for all applicable charges as if proper authorization for the water use had been obtained, including but not limited to bi-monthly service charges, installation charges and removal charges.

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

**Water Department Director**

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

#### APPENDIX

**Administering Division:** Customer Support Division

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

**Distribution:** DI Manual Holders





# Application For Fire Hydrant Meter

(EXHIBIT A)

For Office Use Only

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

NS Rec:	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: (Attach a detailed map, Thomas Bros map location or construction drawing.)	

**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**

### **Materials Typically Accepted by Certificate of Compliance**

## **Materials Typically Accepted by Certificate of Compliance**

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

**APPENDIX D**

**Sample City Invoice**

City of San Diego, Field Engineering Div., 9485 Aero Drive, SD CA 92123						Contractor's Name:					
Project Name:						Contractor's Address:					
SAP No. (WBS/IO/CC):											
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						
<b>CHANGE ORDERS</b>											
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)						
<b>SUMMARY</b>								Total This	\$ -	Total Billed	\$0.00
A. Original Contract Amount						<b>Retention and/or Escrow Payment Schedule</b>					
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 E**

**Location Map**

# WATER AND SEWER GROUP 957

SENIOR ENGINEER  
WENDY GAMBOA  
619-235-1971

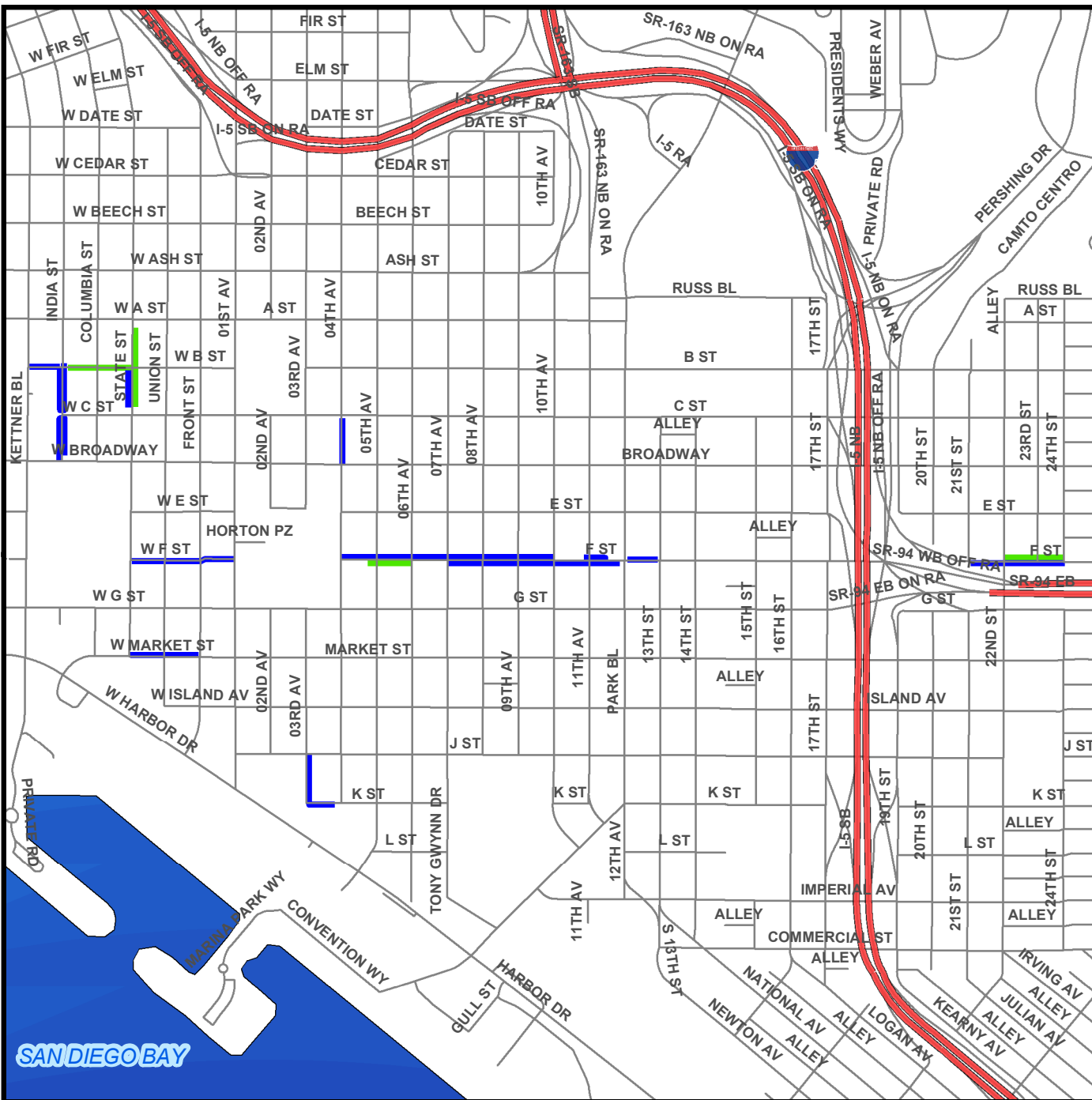
PROJECT MANAGER  
JIM HAGGOUY  
619-533-4657

PROJECT ENGINEER  
ALI MOHAMMADIAN  
619-533-7481

CONSTRUCTION PROJECT  
INFORMATION LINE  
619-533-4207



Division Name - ROWD



## Legend

- PROPOSED WATER ALIGNMENT
- PROPOSED SEWER ALIGNMENT



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**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](http://www.swrcb.ca.gov/rwqcb9/board_decisions/adopted_orders/2002/2002_0020.shtml)), and as follows:

Discharged water has been dechlorinated to below <b>0.1</b> (mg/l) level; and effluent has been maintained between <b>6 and 9</b> (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:						
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	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**

**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 H**

**Center City Development Corporation (CCDC) Drawings**

**For final approved details see Center City Streetscape Manual**

# LOCATION MAP WATER & SEWER GROUP 957

SENIOR ENGINEER  
WENDY GAMBOA  
(619) 235-1971

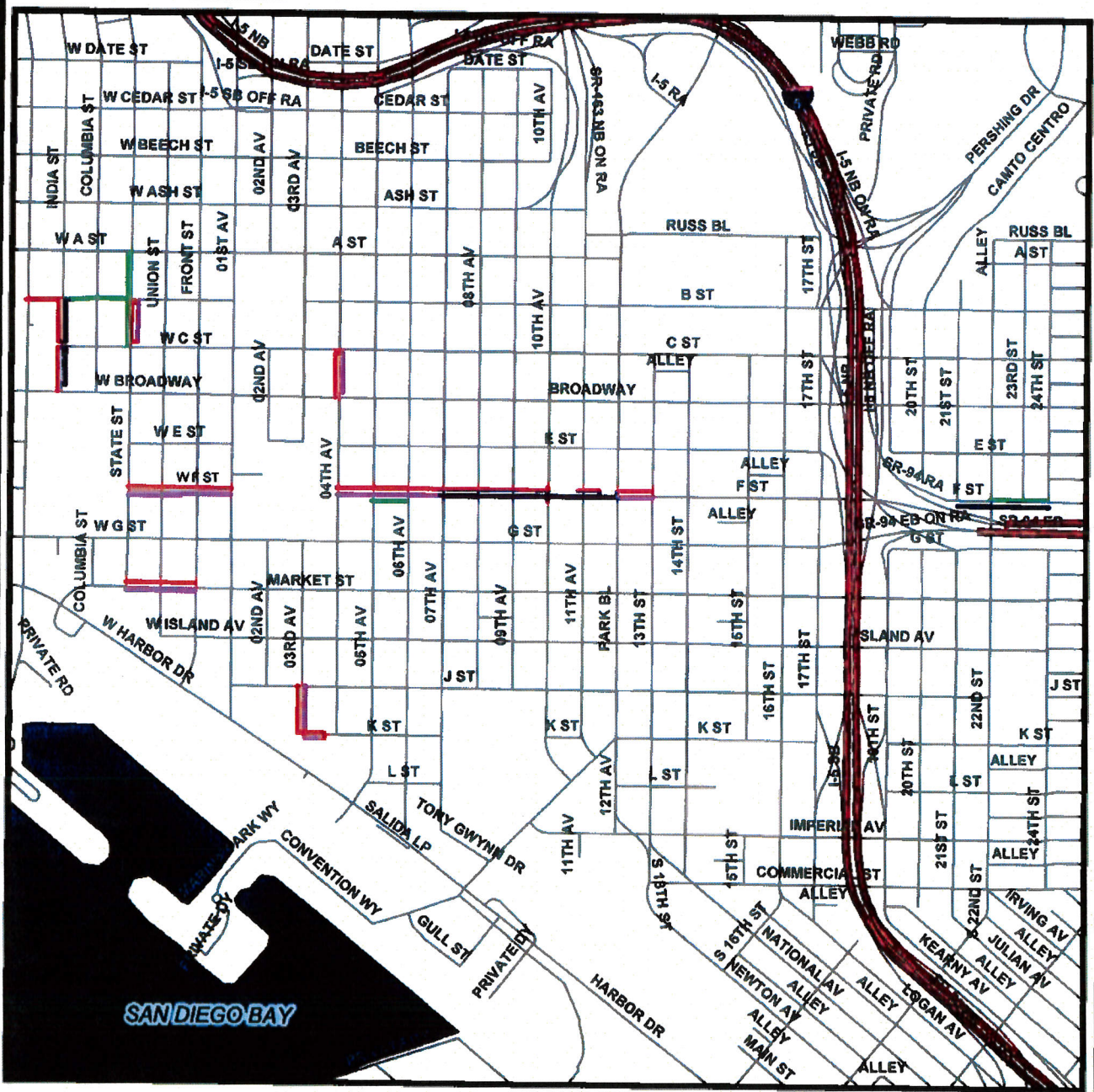
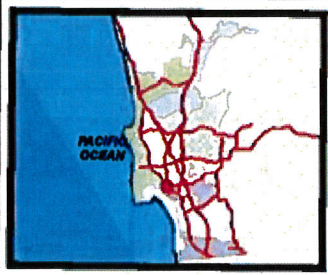
PROJECT MANAGER  
JIM HAGHGOUY  
(619) 533-4657

PROJECT ENGINEER  
ALI MOHAMMADIAN  
(619) 533-7481

PUBLIC INFORMATION OFFICER  
(619) 533-4207



Division Name - Right of Way



- Legend**
- EX. WATER MAIN TO BE REPLACED IN PLACE
  - NEW PARALLEL WATER MAIN
  - EX. WATER MAIN TO BE ABANDONED
  - PROPOSED SEWER ALIGNMENT



COMMUNITY NAME: DOWNTOWN

COUNCIL DISTRICT: 2

SAP ID: B-11152 (SEWER)  
B-11154 (WATER)

March 21, 2012



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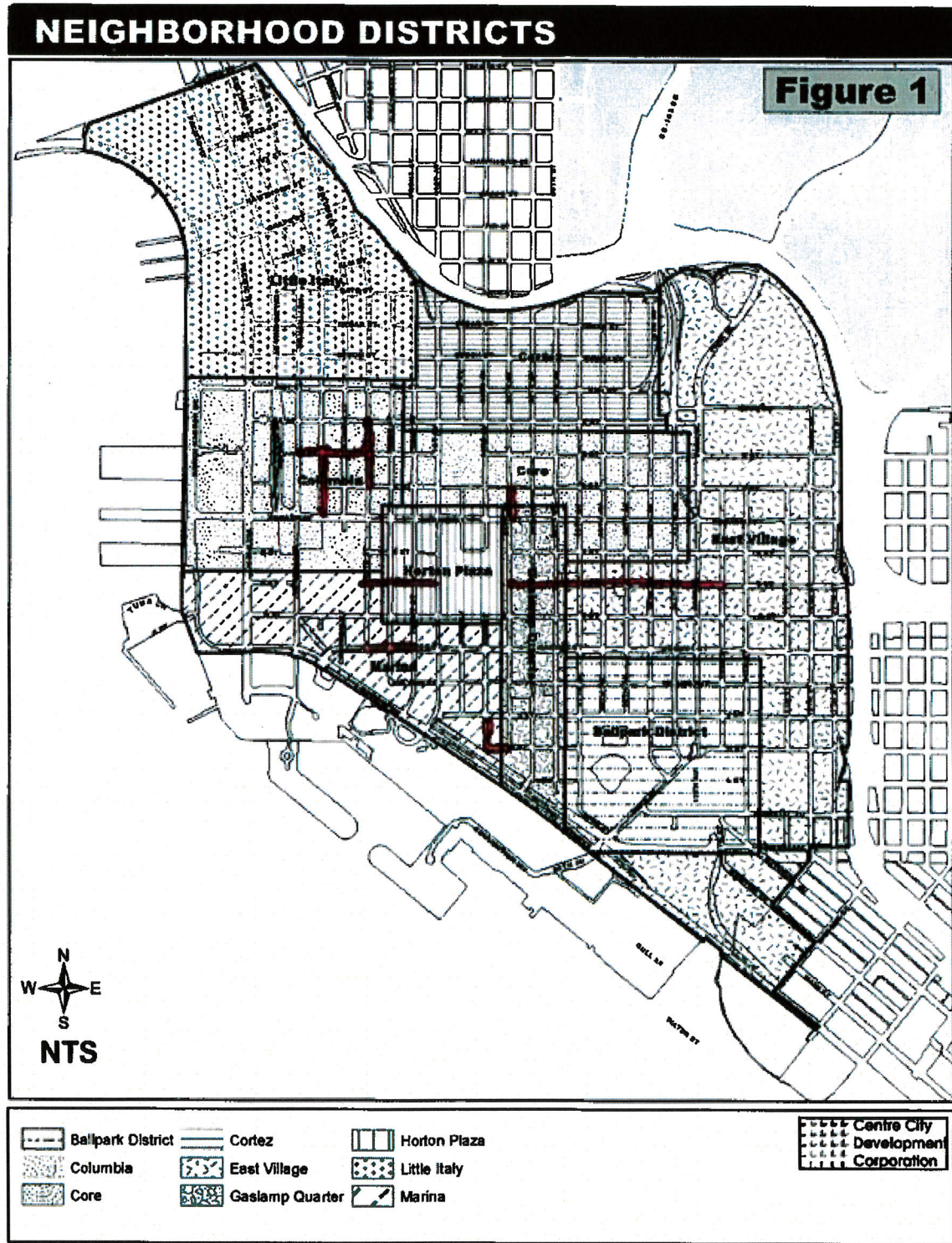


Figure 1: Neighborhood Districts



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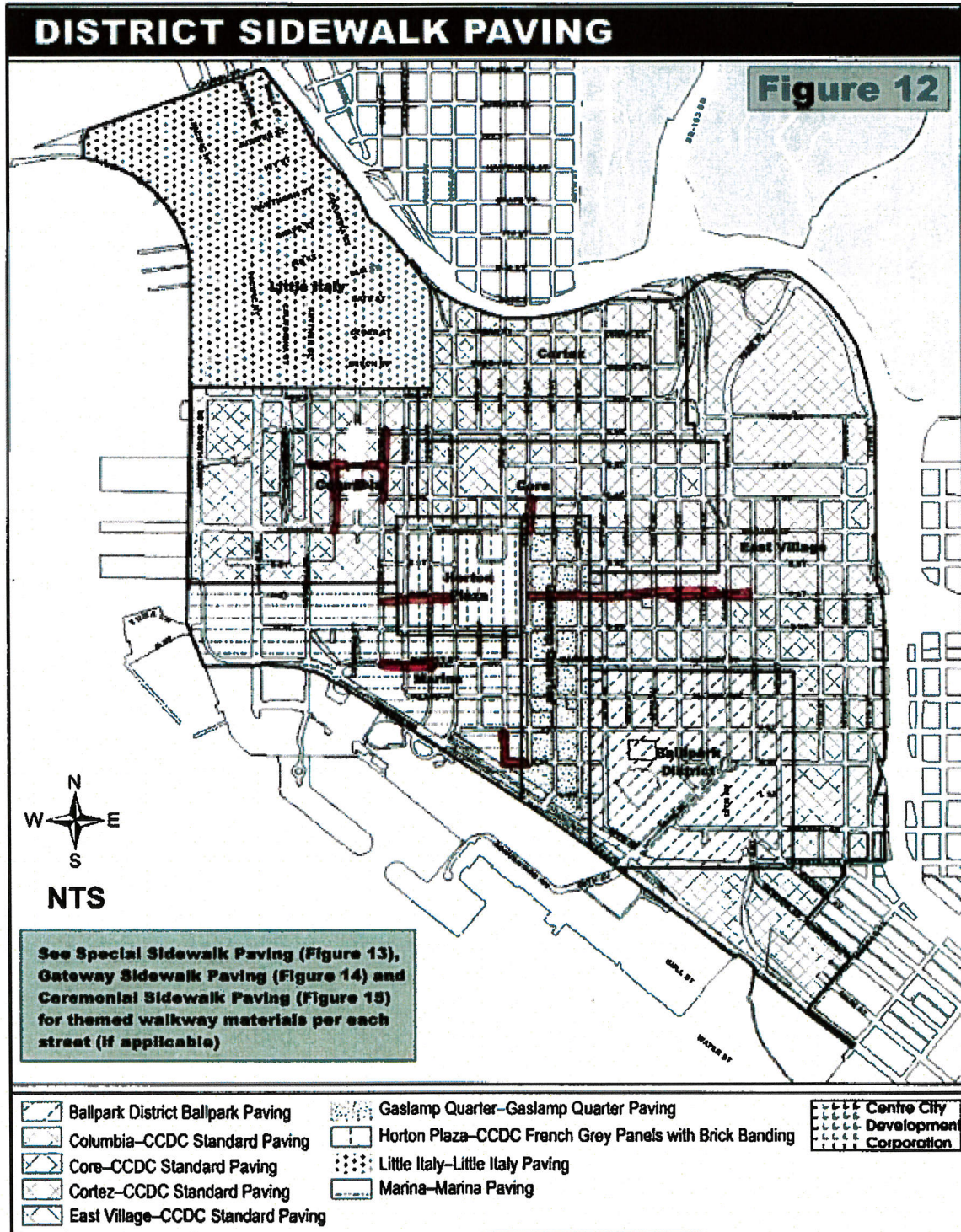


Figure 12: District Sidewalk Paving



# REVISED DRAFT

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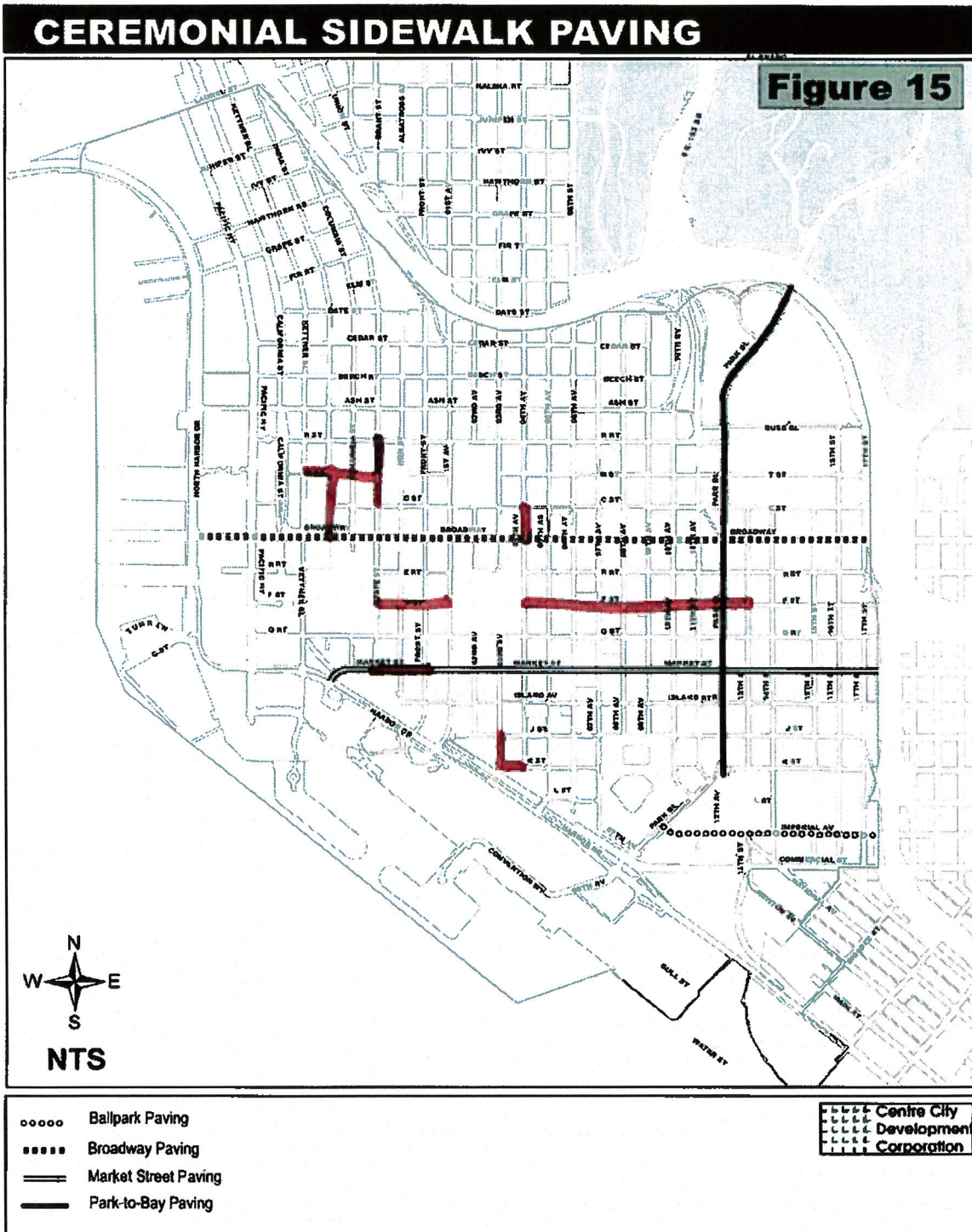


Figure 14: Gateway Sidewalk Paving



# REVISED DRAFT

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**Figure 15: Ceremonial Sidewalk Paving**

# REVISED DRAFT

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## SIDEWALK PAVING

The design of sidewalk paving should be carefully coordinated between on-and off-site areas. The objective is to design paved surfaces that flow together, thus avoiding sharp changes in design, color, quality and materials at the property line.

Each project shall meet the minimum standards, although the actual design should vary to meet conditions of individual sites. However, the materials, colors and surface textures should be precisely consistent with those specified for each class of improvement. The driveway apron and curb inlet top should continue the sidewalk paving pattern materials.

The sidewalk paving program for downtown is structured to allow the paving to compliment the surrounding architecture and to emphasize the Special, Gateway, and Ceremonial Streets.

### *Sidewalk Paving Classifications:*

Each paving classification below is described in detail in the Technical Appendix:

#### *District Sidewalk Paving* (see Figure 12):

DISTRICT	SIDEWALK PAVING
Ballpark District	Ballpark District Paving (Figure T-2)
Columbia, Core, Cortez, East Village	CCDC Standard Paving (Figure T-4 and Figure T-5)
Gaslamp Quarter	Gaslamp Quarter Paving (Figure T-7, Figure T-8 and Figure T-9)
Horton Plaza	Horton Plaza Paving (Figure T-10)
Little Italy	Little Italy Paving (Figure T-12)
Marina	Marina Paving

#### *Special Sidewalk Paving* (see Figure 13).

STREET	SIDEWALK PAVING
1 <sup>st</sup> Ave. (Harbor Dr. to G St.), Front St. (Harbor Dr. to G St.),	Children's Park Paving (Figure T-6)
3 <sup>rd</sup> Ave. (Market St. to J St.), Island Ave. (2 <sup>nd</sup> Ave. to 6 <sup>th</sup> Ave.)	Asian Pacific Paving (Figure T-1)
4 <sup>th</sup> Ave. (Broadway to C St.), 5 <sup>th</sup> Ave. (Broadway to C St.), 6 <sup>th</sup> Ave. (Broadway to C St.)	Broadway Paving (T-3)
C St. (west of Park Blvd.)	Terra Cotta Tile Paving
Island Ave. (east of 6 <sup>th</sup> Ave.)	Island Avenue Paving (Figure T-11)






# REVISED DRAFT

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## Gateway Sidewalk Paving (see Figure 14):

STREET	SIDEWALK PAVING
10 <sup>th</sup> Ave. (Ash St. to Market St.), 11 <sup>th</sup> Ave. (north of Market St.), A St., F St. (east of 6 <sup>th</sup> Ave.), G St. (west of 4 <sup>th</sup> Ave. and east of 6 <sup>th</sup> Ave.)	Gateway Sidewalk Paving (Figure 14)
Ash St.	CCDC Brick Paving
Pacific Highway (south of Ash St.)	Pacific Highway Paving (Figure T-14)

## Ceremonial Sidewalk Paving (see Figure 15):

STREET	SIDEWALK PAVING
 Broadway	Broadway Paving (Figure T-3)
Harbor Dr.	under Port of San Diego jurisdiction
Imperial Ave.	Ballpark Paving (Figure T-2)
 Market St. (west of 4 <sup>th</sup> Ave. and east of 6 <sup>th</sup> Ave.)	Market St. Paving (Figure T-13)
 Park Boulevard (north of K St.)	Park-to-Bay Paving (Figure T-15 and Figure T-16)

# REVISED DRAFT

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## Broadway Paving

The Broadway Paving shall be a brick sidewalk consisting of CCDC Brick Paving and black accent brick. The black brick shall comply with ASTM C216, Type FXB and shall be seven and five-eighths (7 $\frac{5}{8}$ ) inches by three and five-eighths (3 $\frac{5}{8}$ ) inches by one and a quarter (1 $\frac{1}{4}$ ) inches in size, 'Manganese Ironspot' color, wire-cut texture, by Endicott Clay Products Company or approved equal, shall conform to coefficient of friction SE871, and shall exceed the minimum requirements set by ASTM C216.75A for severe weather. The black brick shall be used in a single soldier course along the curb and gutter, around tree grates, and around pedestrian ramps. A double soldier course band shall be located approximately every ten (10) feet and at the property line near street corners. A single or double soldier course should be used as necessary at the property line to accommodate building pop-outs or entries. CCDC Brick shall be used in a single running bond course adjacent to the black bands, in a pin-wheel pattern with a half-size black brick in the center, and in a herringbone pattern between the bands (Figure T-3).

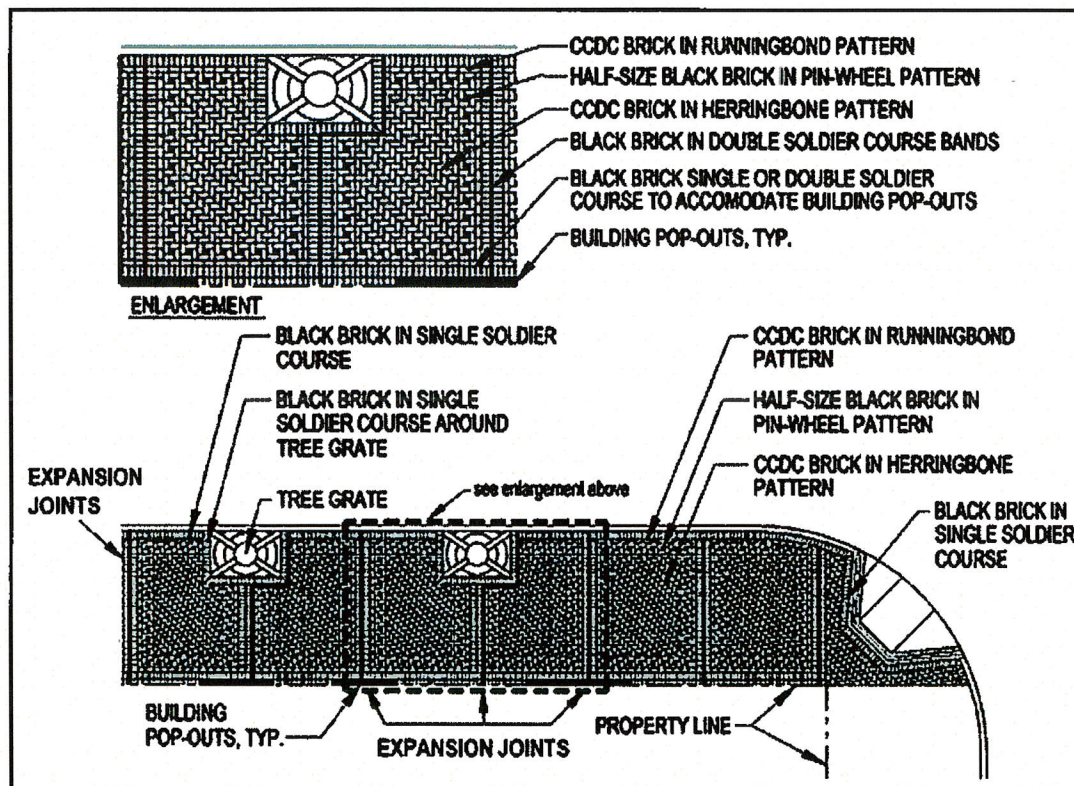


Figure T-3: Broadway Paving



# REVISED DRAFT

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## CCDC Standard Paving

CCDC Standard Paving shall be a concrete sidewalk with scorelines creating either a four (4) foot by four (4) foot or a five (5) foot by five (5) foot grid pattern. Inside of each scoreline shall be a four-inch smooth shiner band. The concrete field surface shall be a medium broom finish, brushed perpendicular to curb. The concrete shall be integrally colored French Gray (C-14) by Scofield, Solomon "Old Gray," Davis "Light Gray" or approved equal (Figure T-4 and Figure T-5). See the Construction Detail Appendix for concrete paving installation.

Additional materials, such as granite pavers, brick, or ceramic tiles shall not be incorporated into the Standard CCDC Sidewalk paving. Concrete surface treatments, such as exposed aggregate, sandblasting, stamping, etc. shall not be allowed.

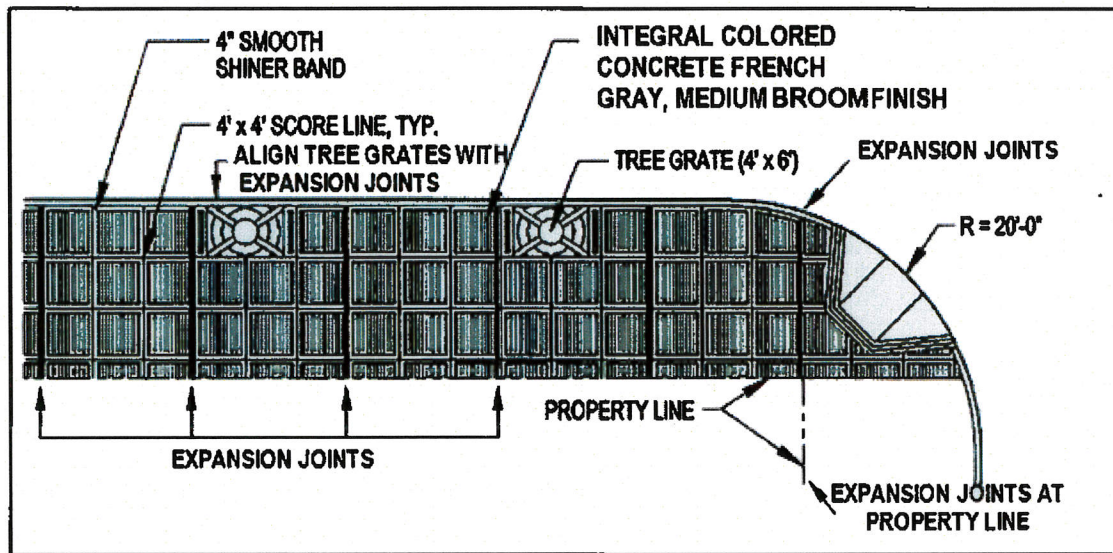


Figure T-4: CCDC Standard Paving with 4'x4' Grid

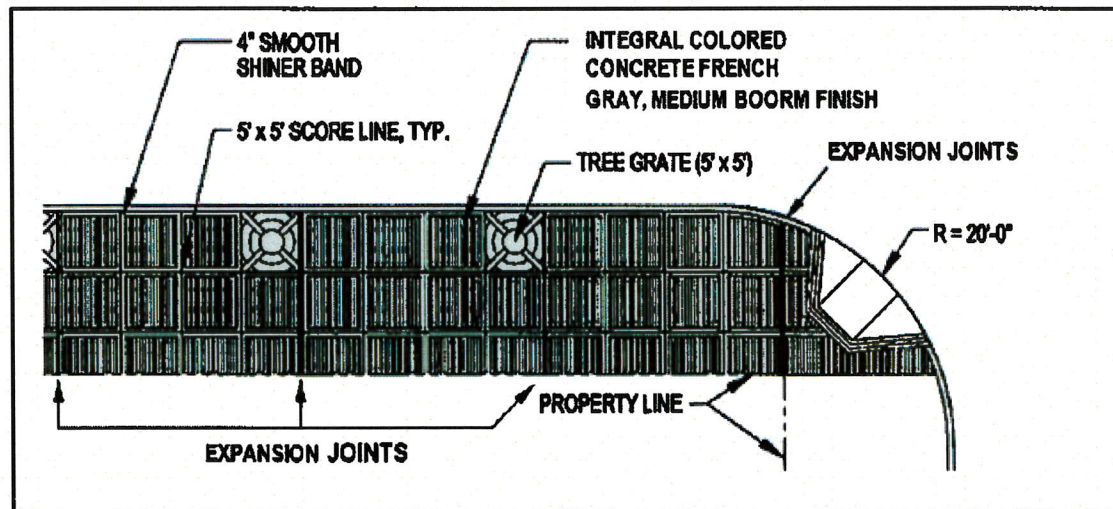


Figure T-5: CCDC Standard Paving with 5'x5' Grid

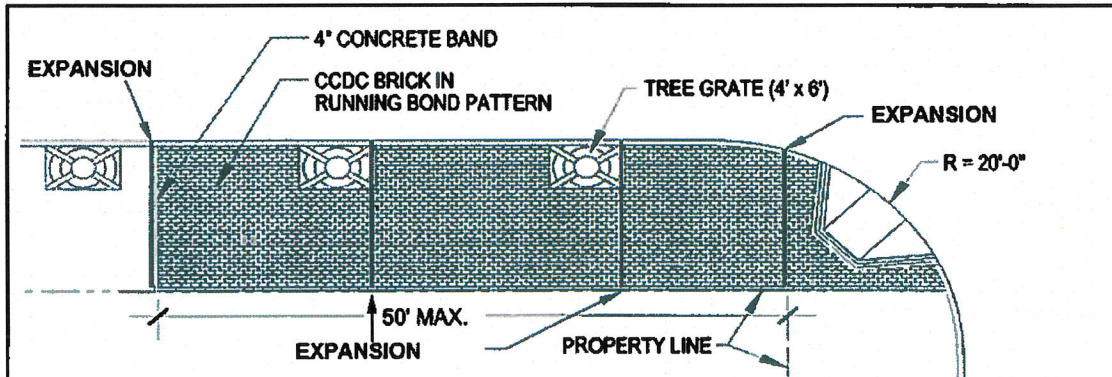


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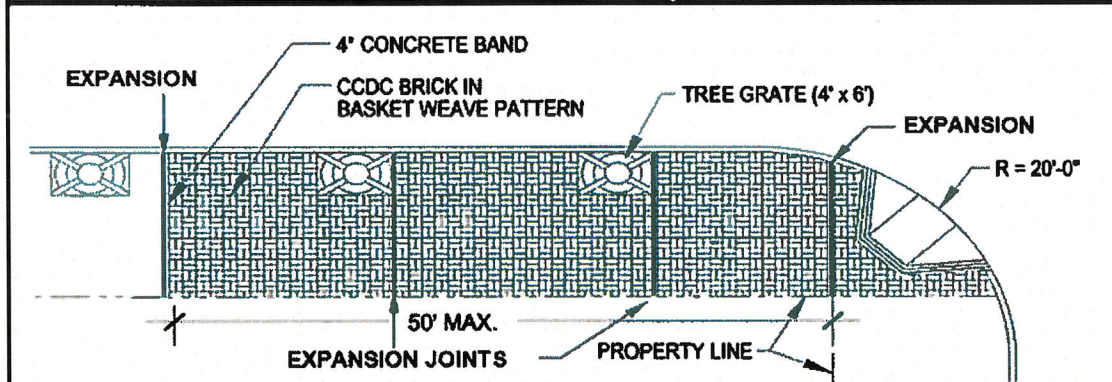
This Document is a draft pending final approval. Please contact a CCDC Planner @ (619) 235-2200 to discuss your project.

## Gaslamp Quarter Paving

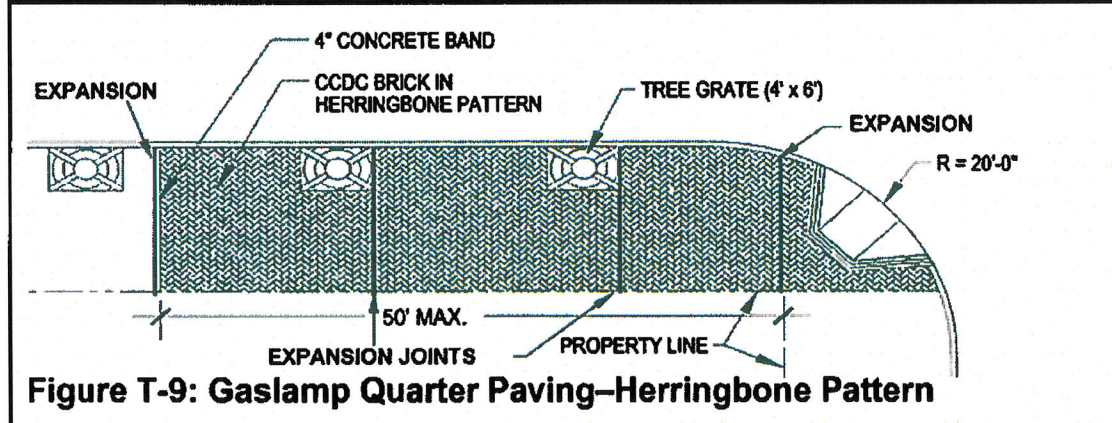
The Gaslamp Quarter paving shall be various patterns of CCDC brick paving. The paving patterns shall change every twenty-five to fifty feet (25-50') and shall be separated by a four foot (4") wide concrete band, integrally colored French Gray (C-14) by Scofield or approved equal. Final decisions regarding locations of pattern changes shall be made by CCDC. Some of the existing brick patterns in downtown are basket weave, herringbone, running bond and variations based on these designs (Figure T-7, Figure T-8 and Figure T-9).



**Figure T-7: Gaslamp Quarter Paving–Basket Weave Pattern**



**Figure T-8: Gaslamp Quarter Paving–Running Bond Pattern**



**Figure T-9: Gaslamp Quarter Paving–Herringbone Pattern**



# REVISED DRAFT

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## Gateway Paving

The Gateway Paving shall be an upgraded concrete sidewalk that is approved by CCDC on a case-by-case basis. Concrete surface treatments, such as exposed aggregate, sandblasting, circular broom finishing, etc. must be used to upgrade the sidewalk to make it sufficiently different from the Standard CCDC Paving. Additional materials, such as granite pavers, brick or ceramic tiles, may also be incorporated in the paving when it helps enhance the surrounding architecture. Stamped concrete surfaces shall not be allowed.

## Horton Plaza

Horton Plaza Paving to be used in Horton Plaza Neighborhood, directly adjacent to Horton Plaza only (Figure A-7).

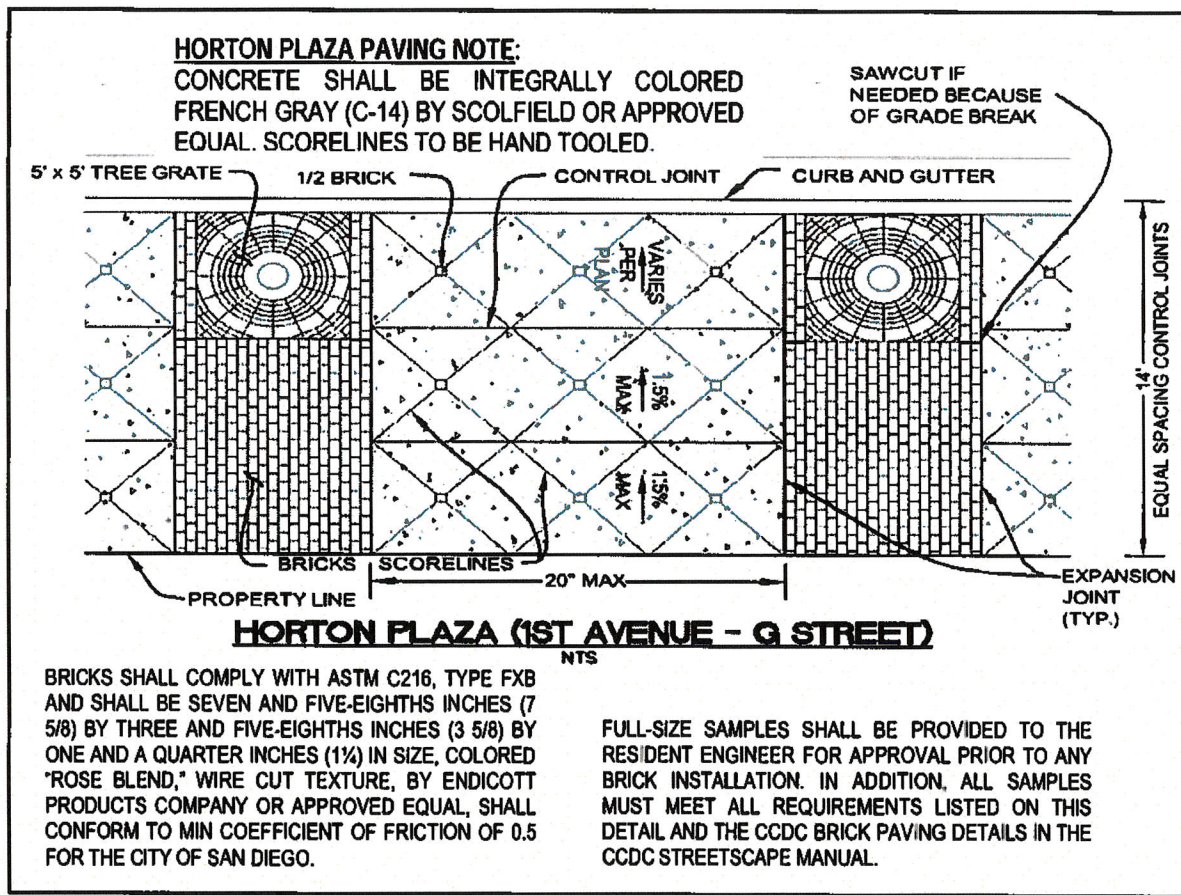


Figure T-10: Horton Plaza Paving

# REVISED DRAFT

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## Marina Paving

The Marina Paving shall be a six (6) inch by twelve (12) inch by eighty (80) millimeter solid, interlocking, concrete paver, 'Antique Red' color, by Ackerstone or approved equal. The paver should be laid in a herringbone pattern ninety (90) degrees to the curb although some differentiation in pattern may be permitted. See the Construction Detail Appendix and Specification Appendix for standard interlocking paver installation.

## Market Street Paving

The Market Street Paving shall be a concrete sidewalk, integrally colored French Gray (C-14) by Scofield or approved equal, with **three-eighths (3/8) inch** 'Carroll Canyon' exposed aggregate from KRC Rock or approved equal, and CCDC Brick Paving used to create triple soldier course bands and quadruple soldier course trim course (Figure T-13). The concrete does not require the use of integral color. The aggregate shall be integrally mixed into the concrete at the concrete batch plant, treated with a surface retardant, and power-washed within 24 hours to expose the aggregate. See the Construction Detail Appendix for standard concrete paving and brick paving installation.

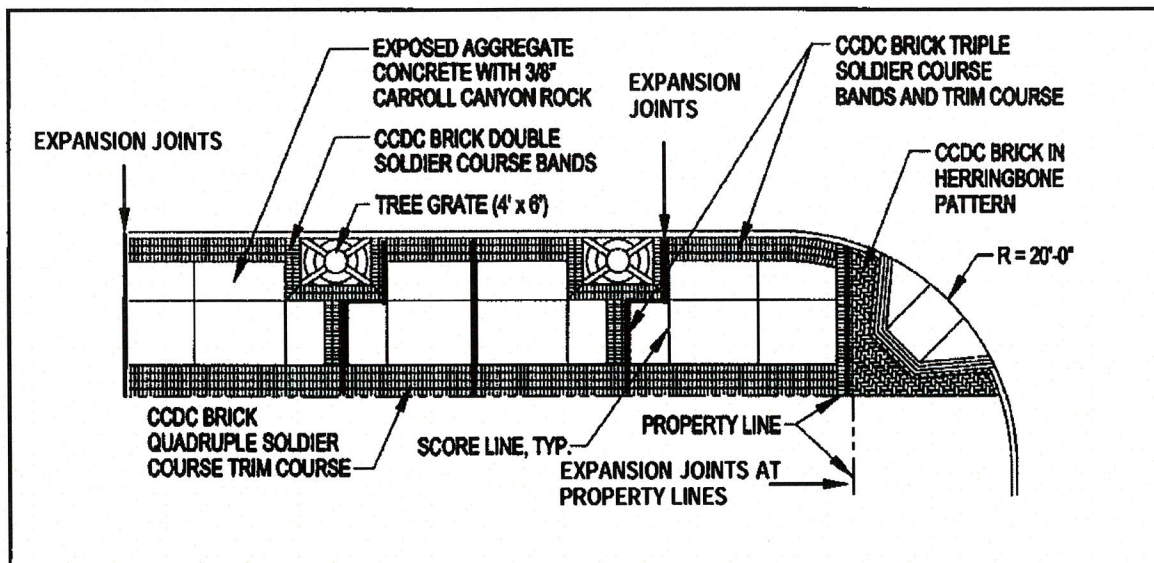


Figure T-13: Market Street Paving



# REVISED DRAFT

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## Park-to-Bay Paving

The Park-to-Bay Paving shall be a concrete sidewalk, integrally colored with French Grey (C-14) by Scofield or approved equal, with eight (8) foot wide bands of three-eighths (3/8) inch 'Carroll Canyon' exposed aggregate from KRC Rock or approved equal, and two eight (8) inch wide concrete pavers shall be eight (8) inches by eight (8) inches in size, divided diagonally in half with alternating colors to create a zigzag color pattern. Blue colors shall be pointed south (towards the Bay) and Green colors shall be pointed north (towards Balboa Park) (Figure T-14 and Figure T-15).

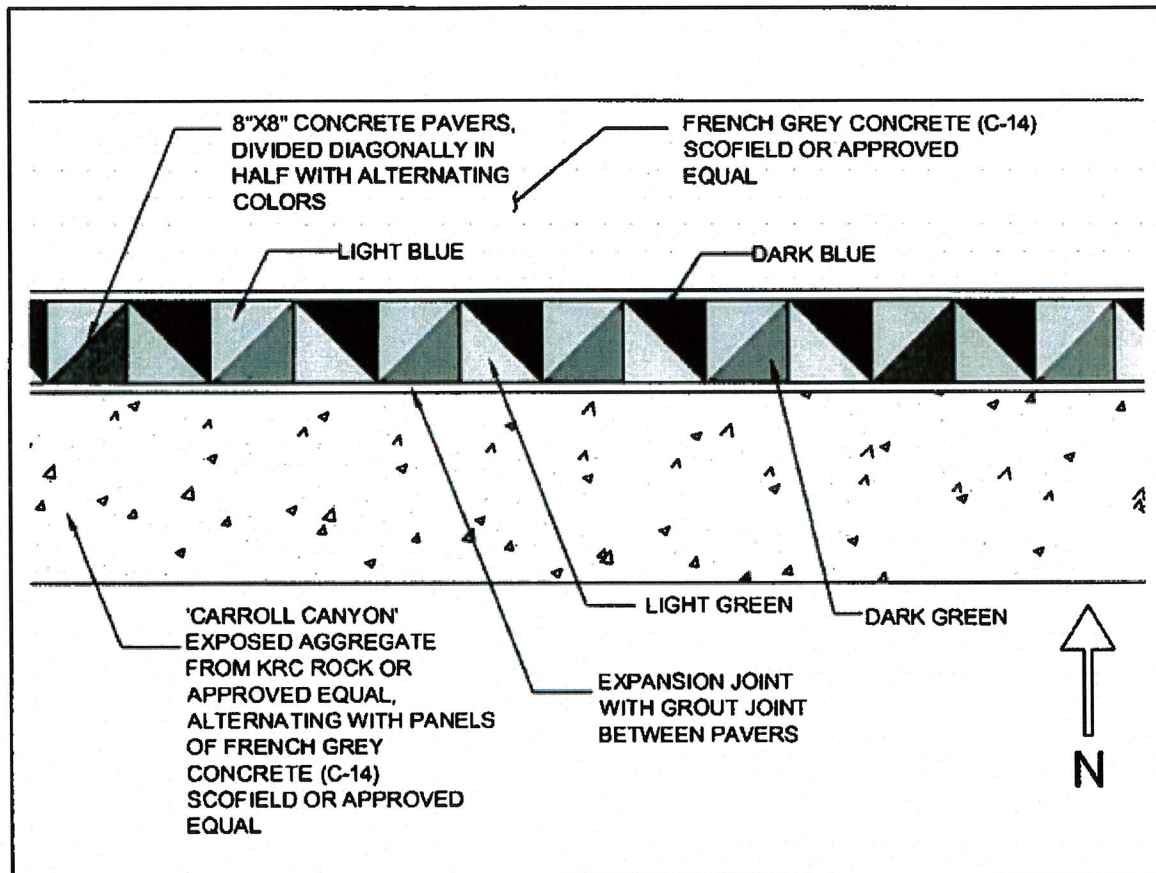


Figure T-15: Park-to-Bay Paving

# REVISED DRAFT

This Document is a draft pending final approval. Please contact a CCDC Planner @ (619) 235-2200 to discuss your project.

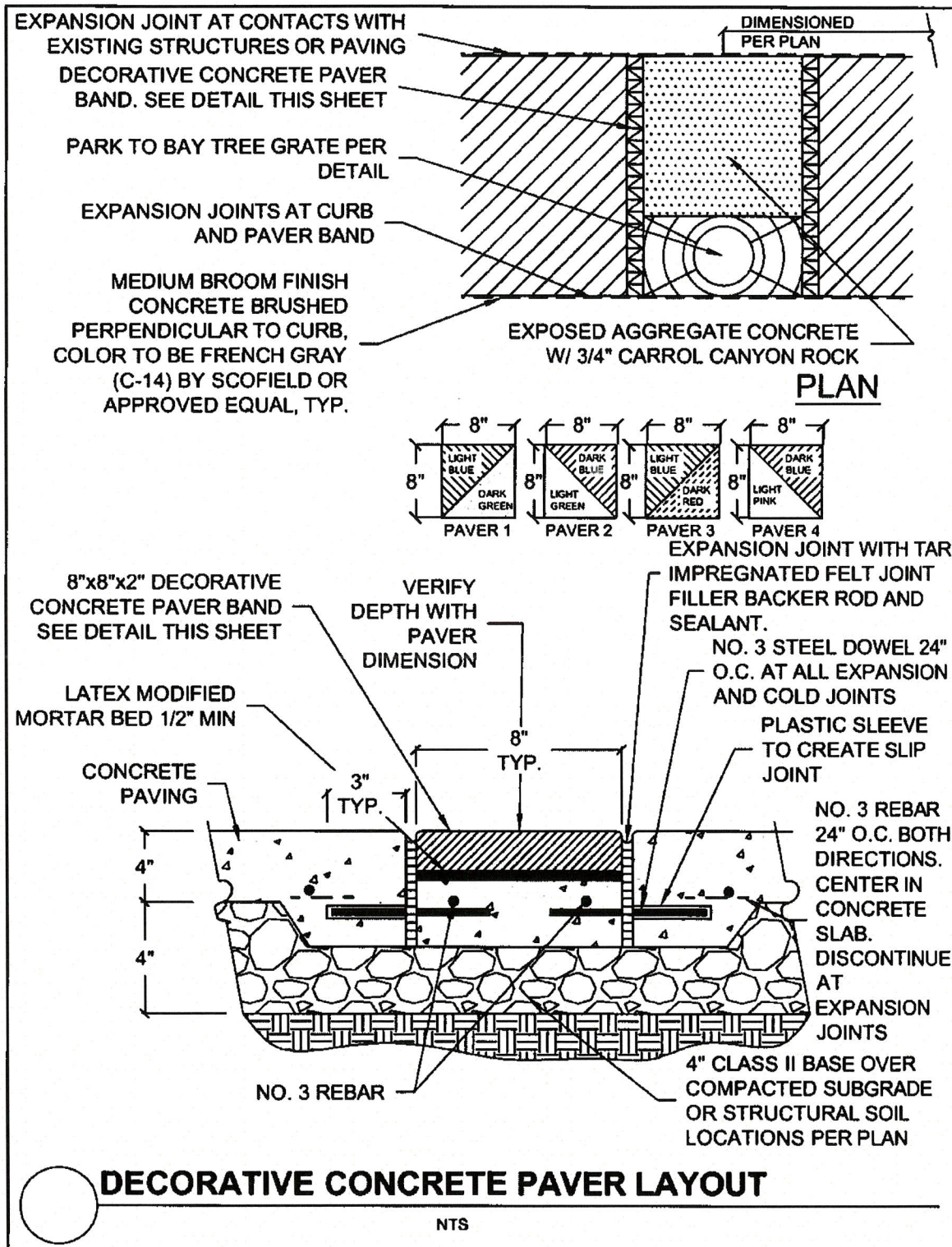


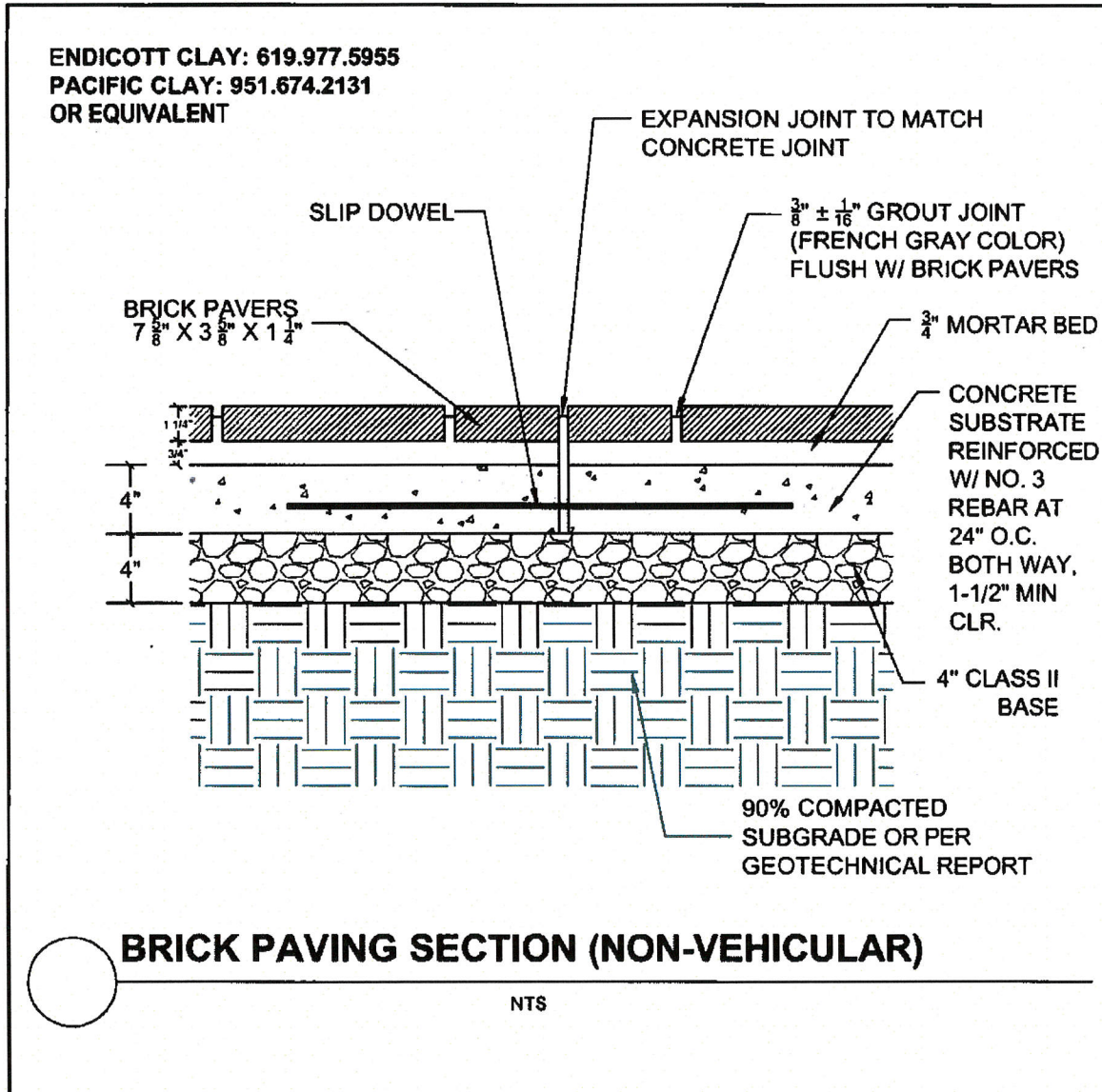
Figure T-16: Park-to-Bay Paver (Layout)



# REVISED DRAFT

This Document is a draft pending final approval. Please contact a CCDC Planner @ (619) 235-2200 to discuss your project.

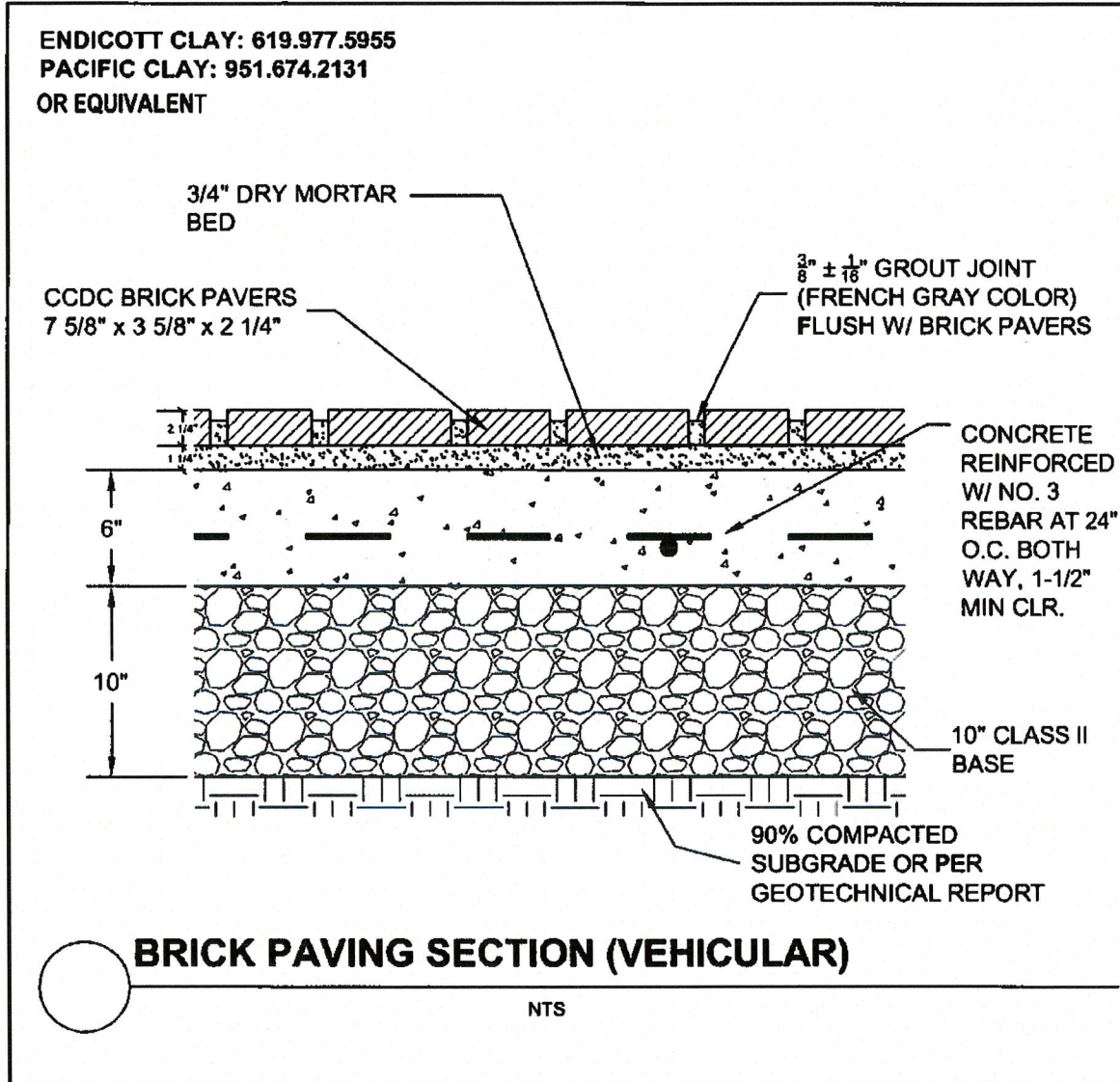
## Brick Paving (Non-Vehicular)



# REVISED DRAFT

This Document is a draft pending final approval. Please contact a CCDC Planner @ (619) 235-2200 to discuss your project.

## Brick Paving (Vehicular)

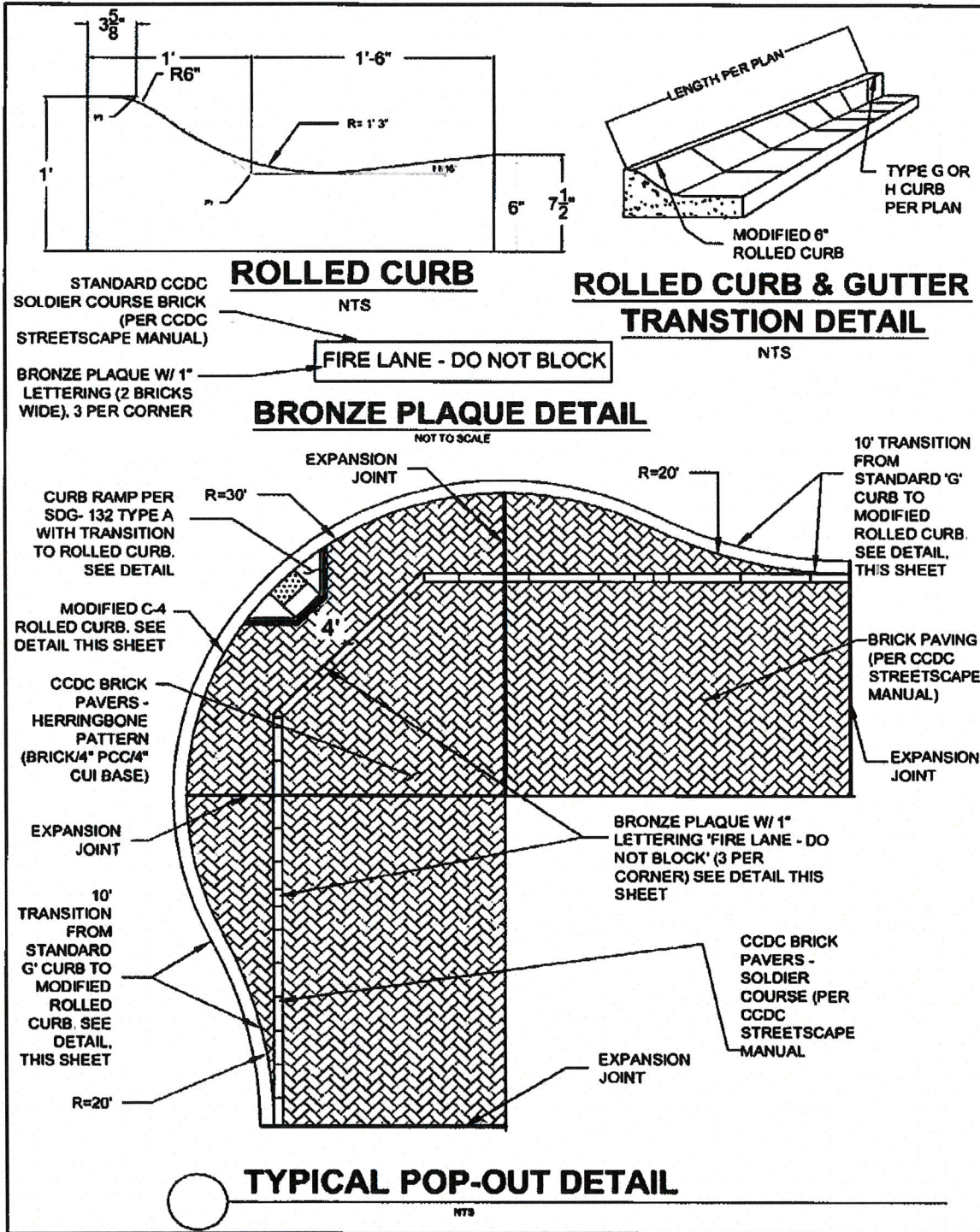




# REVISED DRAFT

This Document is a draft pending final approval. Please contact a CCDC Planner @ (619) 235-2200 to discuss your project.

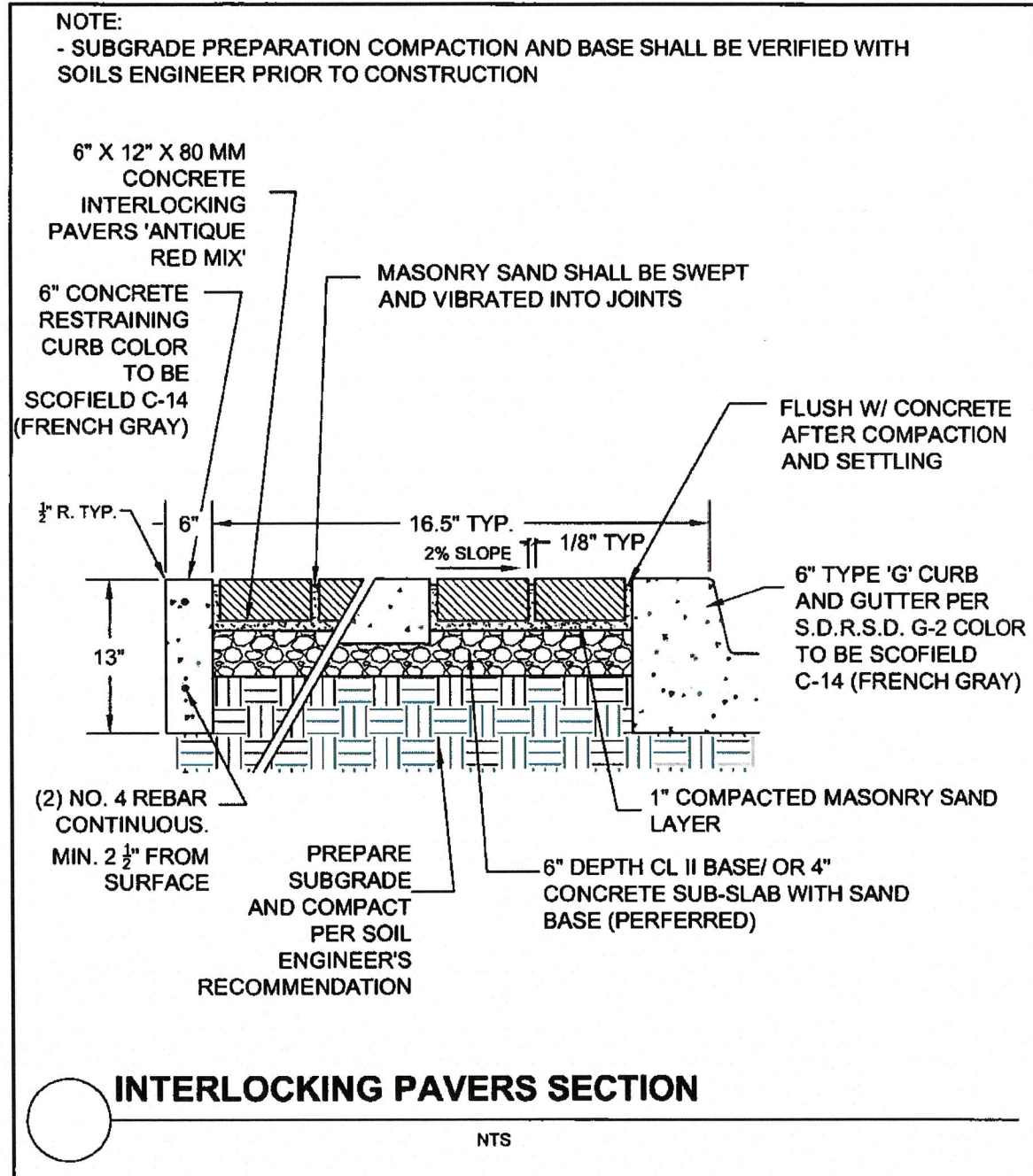
## Brick Paving at Pedestrian Ramp



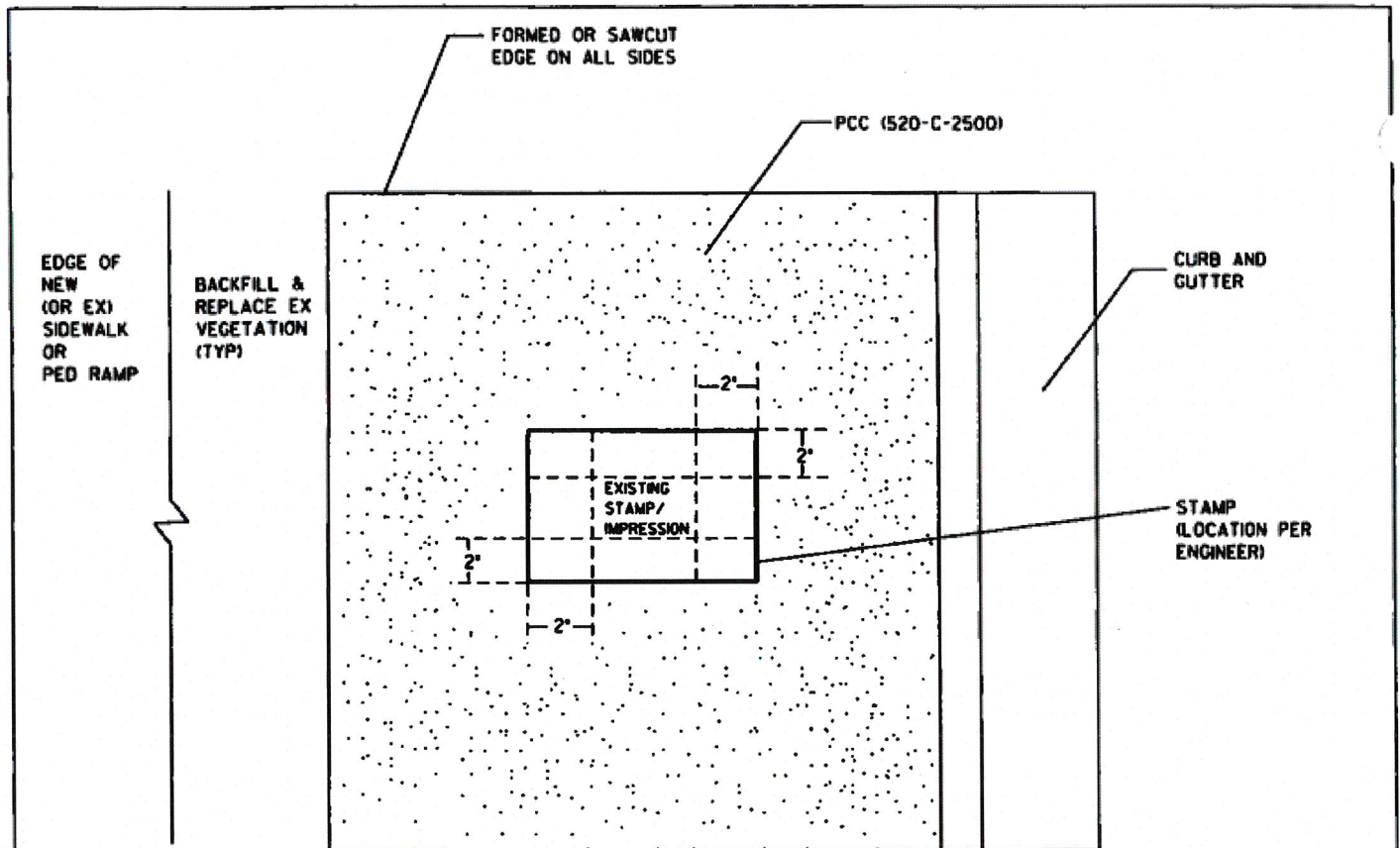
# REVISED DRAFT

This Document is a draft pending final approval. Please contact a CCDC Planner @ (619) 235-2200 to discuss your project.

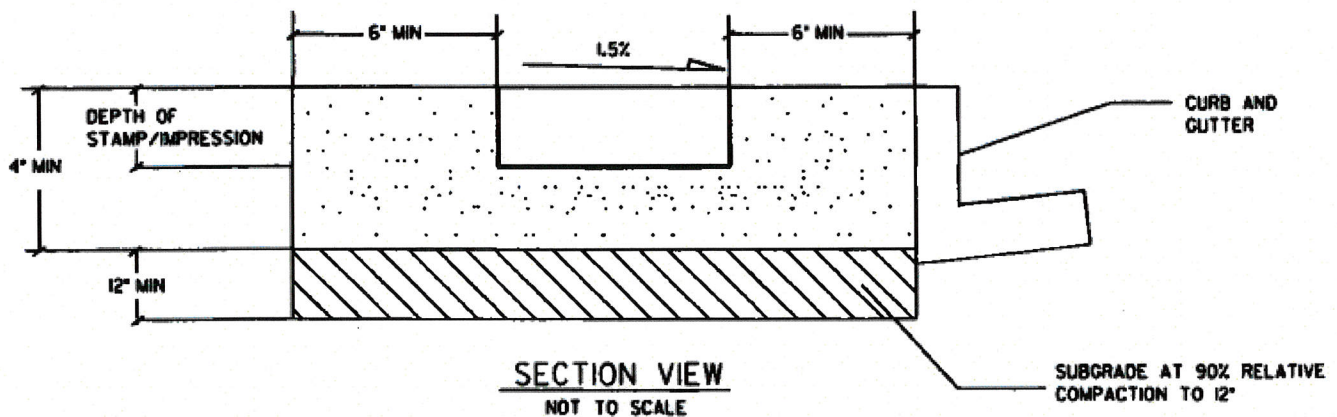
## Interlocking Pavers







**PLAN VIEW**  
NOT TO SCALE



**SECTION VIEW**  
NOT TO SCALE

**NOTES:**

1. ALL STAMP/IMPRESSION LOCATIONS AND ORIENTATIONS SHALL BE PRE-APPROVED BY THE ENGINEER.
2. SINGLE STAMP/IMPRESSION SHALL BE PLACED AS CLOSE TO ITS ORIGINAL LOCATION AS CONSTRUCTION ALLOWS.
3. MULTIPLE STAMPS/IMPRESSIONS (EXISTING AND/OR NEW) SHALL BE EVENLY SPACED ALONG THE NEWLY CONSTRUCTED SIDEWALK
4. EXISTING STAMP/IMPRESSION SHALL BE SAWCUT TO NO LESS THAN 2" FROM STAMP LETTERING AND/OR SYMBOL
5. INSTALLATION OF ALL NEW STAMPS/IMPRESSIONS SHALL BE PER GREENBOOK SPECIFICATION SECTION 303-5.5

Revision	By	Approved	Date
ORIGINAL	NBZ	J. SHOAF	8/00
DETAIL	SM	A. OSKOU	12/03

CITY OF SAN DIEGO - STANDARD DRAWING

EXISTING STAMP/IMPRESSION PLACEMENT

CITY OF SAN DIEGO  
STANDARDS COMMITTEE

*Blair* 6-14-04  
Chairperson RCE 6-072 Date

DRAWING NUMBER **SDG-115**

## **APPENDIX I**

### **MTS Construction Notes**

## **MTS CONSTRUCTION NOTES**

1. A Right of Entry permit is necessary when entering MTS / San Diego and Arizona Eastern (SD&AE) right-of-way, including airspace, for any purpose. A permit is also required when working in public right-of-way occupied by MTS / SD&AE facilities. Further information to obtain access to railroad facilities can be obtained from MTS website at: <http://www.sdmts.com/Business/Permits.asp> or contact MTS Right of Way Services at Tel. (619) 557-4501.
2. Certificate of Insurance from your insurance company for General Liability, Automobile Liability, Workman's Compensation and Railroad Protective requirements must be submitted and approved by MTS before the permit will be processed. San Diego Metropolitan Transit System (MTS) shall be named the Certificate holder and the additional insured listed below to be included:
  - San Diego Metropolitan Transit System (MTS)
  - San Diego Trolley, Inc. (SDTI)
  - San Diego and Arizona Eastern (SD&AE) Railway
  - San Diego and Imperial Valley (SD&IV) Railroad
  - San Diego Transit Corporation (SDTC), their directors, officers, agents and employees as additional insureds as their interests may appear.
3. Most general liability insurance does not cover railroads. Any exclusions relating to performance of operations within the vicinity of any railroad, bridge, trestle, track, roadbed, tunnel, underpass, or crossing must be deleted from the policy. If the exclusions cannot be removed, a separate Railroad Protective Liability Policy will be required.
4. Rail flagging will be required anytime work is within 15 feet of any operable track including airspace or as deemed necessary by MTS. A Flagperson / Right-of-Way Work Request form must be submitted to SDTI a minimum of three (3) business days prior to anticipated work.
5. A pre-construction meeting will be required with SDTI prior to work commencing within the right-of-way. A written notice of planned start of work must be submitted to MTS a minimum of five business days prior to work starting in the right-of-way. All work will be stopped and Permittee will not be allowed in the right-of-way without proper notification.
6. Permittee must adhere to construction and safety standards required by MTS of their contractors when working within the right-of-way.
7. A written notice shall be submitted to MTS when work is completed within the right-of-way. Any additional work required to replace or repair the railroad facilities in good working order will be the Permittee's responsibility prior to relief from maintenance within the permit area.
8. Casing sleeves under Railroad tracks and across Railroad right-of-way shall not be less than 5 ½ feet (1.7m) from the base of the rail to the top of the casing at its closest point. On portions where casing is not directly beneath the tracks, the depth from ground surface to the top of the casing shall not be less than 3 feet (1 m).
9. Permittee agrees to coordinate on a daily basis a reasonable access to all MTS/SD&AE facilities with contract operators, SDTI, and SD&IV. Trolley operations are generally from the hours of 4:00 a.m. to 2:00 a.m. the following day. SD&IV freight trains operate during non-Trolley hours.
10. A traction power shutdown may be necessary for the work zone to protect and maintain required 10 feet clearance adjacent to the trolley overhead high voltage catenary system. Permittee shall

submit a Red Tag/ Traction Power Removal Request form to SDTI at least 3 business days prior to the start of work. Power shutdowns shall only be allowed during non-operating Trolley hours.

11. Permittee agrees to restore all facilities, improvements, landscaping, etc., to their original condition by the completion of work or as shown on plans.
12. Permittee agrees that no work by himself or his authorized agent will interfere with railroad/trolley operations.
13. Permittee shall notify SDTI and SD&IV a minimum of three (3) business days prior to the start of work on subject property and within one (1) business day after completion of work.
14. Permittee shall not store equipment, tools, and materials within fifteen feet from the centerline of any operable track.
15. Permittee shall remove all of Permittee's tools, equipment, and materials from railroad premises promptly upon completion of work, restoring railroad premises to the same state and condition as when Permittee entered thereon.
16. No vehicular crossing over tracks shall be installed or used by Permittee without prior written permission of Railroad.
17. Permittee shall perform all work in accordance with applicable California Public Utilities Commission and OSHA regulations, MTS LRT Design Criteria and AREMA specifications.
18. Permittee shall maintain safe pedestrian access to all trolley platforms and bus stops at all times. A minimum five-foot-wide accessible pedestrian path through the construction site shall be maintained at all times. The construction boundary shall consist of a top and bottom rail constructed of 3/4-inch plastic pipe, OSHA plastic mesh, or approved equal. Yellow caution tape is not acceptable.
19. Permittee shall not use or store hazardous substances, as defined by the Comprehensive Environmental Response, Compensation, and Liability Act, as amended ("CERCLA") or petroleum or oil as defined by applicable Environmental Laws on the Railroad right-of-way.
20. Any contractors or subcontractors performing work on the Railroad right-of-way, or entering the right-of-way on behalf of Permittee, shall be deemed agents of Permittee.
21. Permittee's on-site supervision shall retain/maintain a fully executed copy of the Right of Entry Permit at all times while on the Railroad right-of-way.

# City of San Diego

CITY CONTACT: Damian Singleton, Contract Specialist, Email: [dsingleton@sandiego.gov](mailto:dsingleton@sandiego.gov)  
Phone No. (619) 533-3482, Fax No. (619) 533-3633



## ADDENDUM "A"

## FOR

### SEWER AND WATER GROUP JOB 957

BID NO.:	<u>K-13-5811-DBB-3-C</u>
SAP NO. (WBS/IO/CC):	<u>B-11152, B-11154</u>
CLIENT DEPARTMENT:	<u>2011, 2013</u>
COUNCIL DISTRICT:	<u>2</u>
PROJECT TYPE:	<u>KB</u>

---

### BID DUE DATE:

**2:00PM**

**APRIL 9, 2013**

**CITY OF SAN DIEGO**

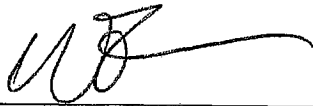
**PUBLIC WORKS DEPARTMENT**

**1010 SECOND AVENUE, SUITE 1400, MS 614C**

**SAN DIEGO, CA 92101**

# ENGINEER OF WORK

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



For City Engineer

3/18/13

Date

Seal:



**A. CHANGES TO CONTRACT DOCUMENTS**

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

**B. PLANS**

1. To Drawings numbered 36689-01-D through 36689-28-D, **DELETE** in their entirety and **REPLACE** with pages 4 of 31 through 31 of 31 of this Addendum.

Tony Heinrichs, Director  
Public Works Department

Dated: *March 18, 2013*  
San Diego, California

TH/ds/bd/lis



# SEWER AND WATER GROUP 957

## CONTRACTOR'S RESPONSIBILITIES

- PURSUANT TO SECTION 4216 OF THE CALIFORNIA GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION, YOU MUST CONTACT THE REGIONAL NOTIFICATION CENTER (E.G., UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.
- NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SDG&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES, (I.E., 69 KV & HIGHER)
- LOCATE AND RECONNECT ALL SEWER LATERALS. LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. LATERAL RECORDS ARE AVAILABLE AT THE PUBLIC UTILITIES DEPARTMENT, 2797 CAMINITO CHOLLAS. LOCATE THE IMPROVEMENTS THAT WILL BE AFFECTED BY LATERAL REPLACEMENTS.
- EXCAVATE AROUND WATER METER BOX (I.E., CITY PROPERTY SIDE) TO DETERMINE IN ADVANCE, THE SIZE OF EACH SERVICE BEFORE TAPPING MAIN.
- CITY FORCES, WHERE SPECIFIED OR SHOWN ON THE PLANS, WILL MAKE PERMANENT CUTS AND PLUGS AND CONNECTIONS.
- KEEP EXISTING MAINS IN SERVICE IN LIEU OF HIGH-LINING, UNLESS OTHERWISE SPECIFIED OR SHOWN ON PLANS.
- THE LOCATIONS OF EXISTING BUILDINGS AS SHOWN ON THE PLANS ARE APPROXIMATE.
- KEEP STORM DRAIN INLETS 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 RECORDED INFORMATION ONLY AND ARE SOLELY FOR YOUR CONVENIENCE. THE CITY DOES NOT GUARANTEE THAT IT HAS REVIEWED ALL AVAILABLE DATA PRIOR TO EXCAVATION. YOU MUST VERIFY 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.
- THE CITY'S PUBLIC UTILITIES DEPARTMENT, 619-527-3945 (619-527-7465 FOR TRANSMISSION MAINS 16" AND LARGER), SHALL BE NOTIFIED BY THE CONTRACTOR 20 WORKING DAYS PRIOR TO BEGINNING OF WORK THAT INVOLVES SHUTTING DOWN PIPELINES, HIGH-LINING, CUTTING AND PLUGGING OFF, MAKING CONNECTION TO THE EXISTING 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.
- IF ANY DUCTILE IRON PIPE IS TO BE INSTALLED THAT THE CORROSION SECTION BE NOTIFIED AT 619-247-9290 TO REVIEW CORROSION CONTROL EQUIPMENT.

## STORM WATER PROTECTION

- THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER NO. R9-2007-0003 AND WPCP.

## SIDEWALK CONSTRUCTION NOTES

- ALL SIDEWALK REPLACEMENT WEST OF HWY 5 SHALL BE CONSTRUCTED PER CENTRE CITY DEVELOPMENT CORPORATION STREETSCAPE MANUAL (CCDC-SSM) DETAILS INCLUDED IN SPECIFICATIONS, APPENDIX H.
- ALL SIDEWALK REMOVAL IN THE CCDC ROW SHALL BE BY SAW-CUT TO THE NEAREST COLD/EXPANSION JOINT AND SHALL BE REPLACED PER CCDC-SSM WITH EXPANSION JOINT AT SAW-CUTS.
- FOR CCDC ROW SEE PROJECT SPECIFICATION APPENDIX H.

## 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	---
EX STREET LIGHT	---
GAS MAIN	---
ELEC. COND., TEL. COND., CATV	---
RAILROAD, TROLLEY TRACKS	---

## ABBREVIATIONS

ABAND	ABANDON	EB	ENCASED BURIED	N/O	NORTH OF
ABAND'D	ABANDONED	EL, ELEV	ELEVATION	OVHD	OVER HEAD
AC	ASBESTOS CEMENT PIPE	ELEC	ELECTRIC	PVC	POLYVINYL CHLORIDE
AHD	AHEAD	EX, EXIST	EXISTING	PROP	PROPOSED
ASSY	ASSEMBLY	E/O	EAST OF	RED	REDUCER
BK	BACK	F	FLANGE	RT	RIGHT
BTWN	BETWEEN	FH	FIRE HYDRANT	S	SURVEY LINE
BV	BUTTERFLY VALVE	FS	FIRE SERVICE	SO	STUB OUT
CATV	CABLE TV	GV	GATE VALVE	S/O	SOUTH OF
CI	CAST IRON PIPE	HDPE	HIGH-DENSITY POLYETHYLENE	S/W	SEWER
C	CENTER LINE	HP	HIGH PRESSURE	TEL	TELEPHONE
COND	CONDUIT	IE	INVERT ELEVATION	UNK	UNKNOWN
CONT	CONTINUED	LT	LEFT	VC	VITRIFIED CLAY PIPE
CONTR	CONTRACTOR	MJ	MECHANICAL JOINT	WM	WATER METER
DB	DIRECT BURIED	MTD	MULTIPLE TELEPHONE DUCT	WTR	WATER
				W/O	WEST OF

## CONSTRUCTION CHANGE / ADDENDUM

CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.

## WARNING

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

## LIMITS OF WORK

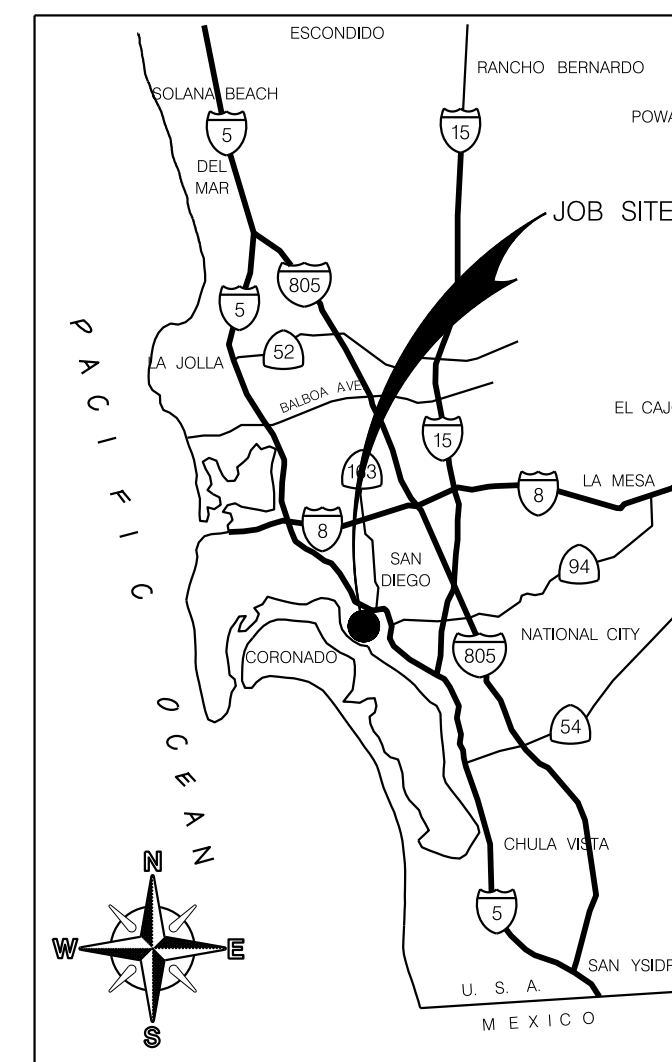
SHEET NO.	DISCIPLINE CODE	TITLE	LIMITS	PIPE		LENGTH (FT)
				SIZE (IN)	MATERIAL	
1	G-1	COVER SHEET				
SEWER						
2	C-1	STATE ST	WEST C ST TO WEST A ST	8	PVC	648.30
3	C-2	WEST B ST	INDIA ST TO STATE ST	8	PVC	551.00
4	C-3	F ST	BET 4TH TO 6TH AVE.	8	PVC	282.00
5	C-4	F ST	BET 4TH TO 6TH AVE.	15	PVC	74.50
6	C-5	F ST	22ND ST TO 24TH ST	8	PVC	521.00
WATER						
6	C-5	INDIA ST	BROADWAY TO WEST C ST	12	PVC	668.42
7	C-6	INDIA ST	WEST B ST TO WEST C ST	12	PVC	750.15
8	C-7	WEST B ST	KETTNER BLVD TO INDIA ST	12	PVC	249.24
9	C-8	STATE ST	WEST C ST TO WEST B ST	12	PVC	355.92
9	C-8	WEST F ST	STATE ST TO IST ST	16	PVC	846.03
10	C-9	WEST MARKET ST	STATE ST TO FRONT ST	12	PVC	575.80
11	C-10	3RD AVE AND K ST	J ST TO 4TH AVE	12	PVC	560.74
12	C-11	4TH AVE	BROADWAY TO C ST	12	PVC	408.39
13	C-12	F ST	4TH AVE TO 7TH AVE	16	PVC	820.00
14	C-13	F ST	7TH AVE TO 8TH AVE	16	PVC	326.00
15	C-14	F ST	8TH AVE TO 10TH AVE	20	PVC	574.00
15	C-14	F ST	10TH AVE TO PARK BLVD	16	PVC	500.00
16	C-15	F ST	11TH AVE TO BET. 11TH AV & PARK AVE	8	PVC	200.00
17	C-16	F ST	PARK AVE TO 13TH ST	16	PVC	273.00
18	C-17	F ST	9TH AVE TO 10TH AVE	12	PVC	281.21
19	C-18	F ST	21ST AVE TO 24TH AVE	16	PVC	775.77
20	C-19		CURB RAMP NOTES TABLE			
21	C-20		CURB RAMP DETAILS			
22	C-21		STREET RESURFACING			
23	C-22		CITY FORCES			
24	C-23		THRUST BLOCK & ANCHOR TABLE / CROSS MAINLINE BYPASS DETAILS			
25	C-24		SEWER & WATER MISC DETAILS			
26	C-25		WATER MISC DETAILS			
27	C-26		WATER POLLUTION CONTROL SITE PLANS			
28	C-27		SEWER/WATER ABANDONMENT SHEET			
	T-1		TRAFFIC PLANS			
				TOTAL SEWER		2,076.80
				TOTAL WATER		8,152.02

## DISCIPLINE CODE

- G GENERAL
- C CIVIL
- T TRAFFIC CONTROL

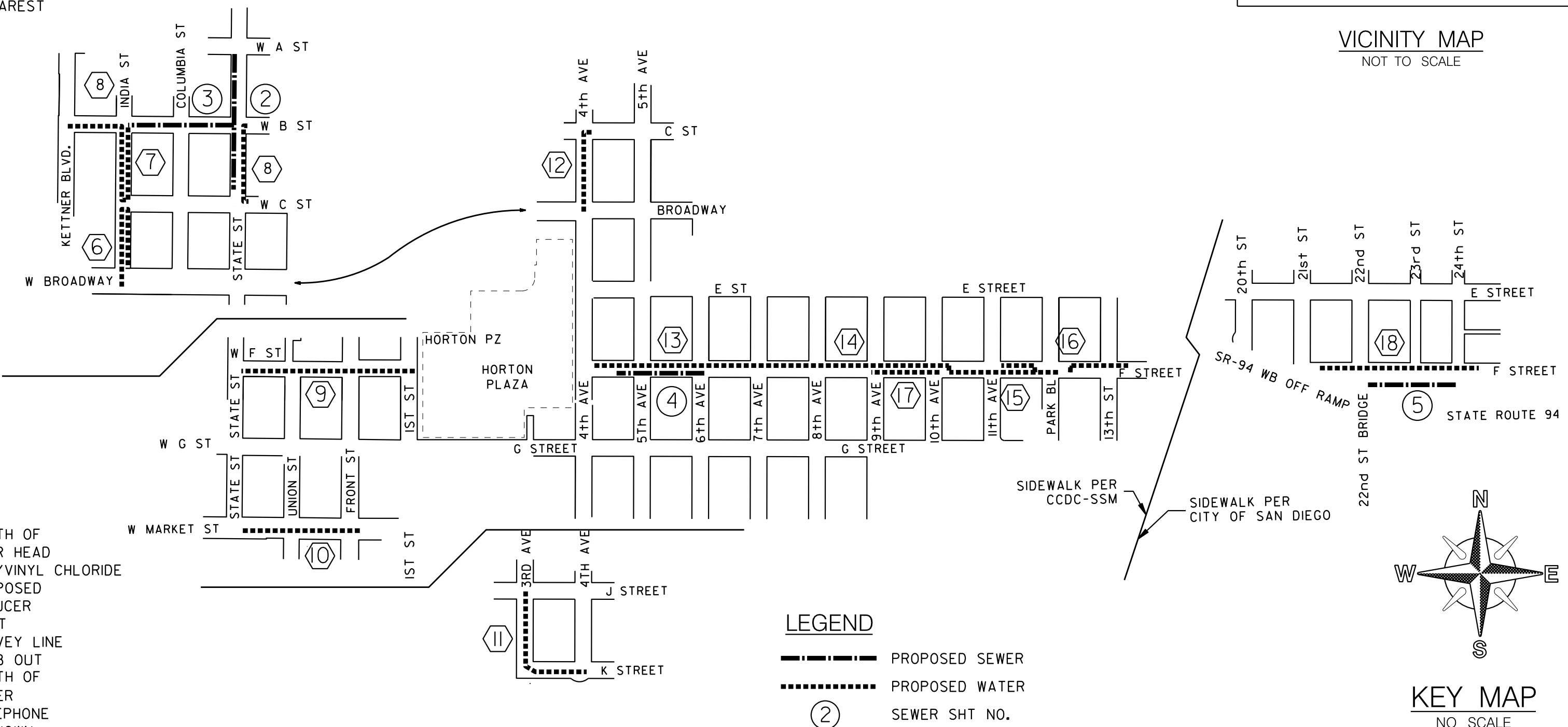
## WORK TO BE DONE

CONSTRUCTION CONSISTS OF REPLACEMENT OF 958 FEET OF VITRIFIED CLAY (VC) SEWER PIPE AND 2,851 FEET OF CAST IRON WATER PIPE. THE 8 AND 14 INCH SEWER PIPE AND 6 TO 20 INCH WATER PIPE WILL BE REPLACED WITH NEW POLYVINYL CHLORIDE (PVC) PIPE. IN ADDITION, THE PROJECT WILL INSTALL 1,101 FEET OF NEW 8 TO 16 INCH PVC SEWER PIPE AND 6,098 FEET OF WATER PIPE, AND ABANDONMENT OF ABOUT 532 FEET OF SEWER AND 3,800 FEET OF WATER PIPE.



## VICINITY MAP

NOT TO SCALE



## LEGEND

- PROPOSED SEWER
- PROPOSED WATER
- ② SEWER SHT NO.
- ⑥ WATER SHT NO.

## KEY MAP

NO SCALE

AS-BUILT INFORMATION	
MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
PIPE CL 305 (WATER)	-
PIPE SDR 18 (SEWER)	-
PIPE SDR 26 (SEWER)	-
GATE VALVES	-
FIRE HYDRANTS	-
SEWER MANHOLES	-

## IMPROVEMENTS

- TRENCH RESURFACING
- SEWER MAIN
- SEWER MANHOLE

4" SEWER LATERAL WITH C.O. UNLESS OTHERWISE SPECIFIED

ABANDON EX MANHOLE

SLURRY FILL ABANDONED SEWER MAIN

CONCRETE PROTECTION FOR EXIST SEWER PIPE

WATER MAIN & APPURTENANCES

VALVES WITH CAPS AND WELLS

6" FIRE HYDRANT ASSEMBLY & MARKER 3-PORT UNLESS SPECIFIED AS 2-PORT

FIRE SERVICE CONNECTION & ASSEMBLY

4" WATER SERVICE AND LARGER, CONNECT TO EX. ASSEMBLY

1" WATER SERVICE UNLESS OTHERWISE SPECIFIED

AIR & VACUUM VALVE

16" AND LARGER BYPASS

CROSS MAINLINE BYPASS

CUTTING AND PLUGGING ABANDONED WATER MAIN/SLURRY FILL ABANDONED WATER MAIN 16" AND LARGER

PIPE SUPPORT FOR UNDERCUT AC WATER MAIN

SURVEY MONUMENT

HIGHLIGHTING BY CONTRACTOR

FOR ADDITIONAL SYMBOLS SEE RESURFACING, CURB RAMP, HORIZONTAL ALIGNMENT COORDINATE AND TRAFFIC CONTROL SHEETS.

## FIELD DATA

BENCHMARK: SWBP 54TH STREET & EL CAJON BLVD. = 405,585 7 NEBP 15TH ST & G ST = 41,68 MSL based on NGVD 29 feet as shown in City of San Diego bench book.

FIELD NOTES: The Basis of Bearings for this project was derived from a previous STATIC GPS survey, using R05 14492 NAD 83 feet, zone 6 (epoch 1991.35). Utilizing RTK/GPS field procedures with a CALVRS base station located at OBRC and constraining to GPS 174 (PT#2) & GPS 17 (PT#1) IE N9°26'35"

DATUM: MEAN SEA LEVEL  
STREETS REQUIRING 12" TRENCH CAP:

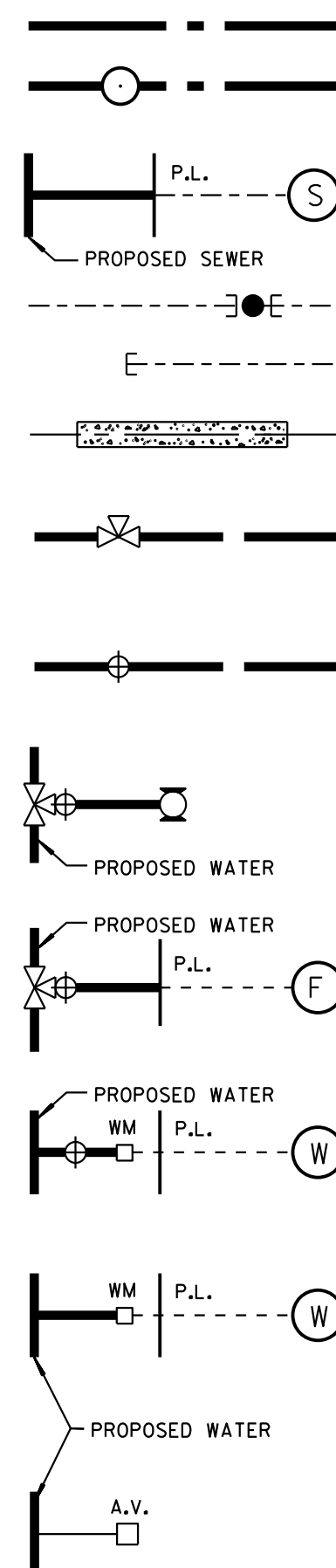
- 'B' STREET
- 'F' STREET
- 4TH STREET

## LEGEND

### STANDARD DRAWINGS

- SDG-107 TYPE A, SDG-108
- SDS-104, SDS-110 (TYPE C)
- M-3, SDS-106, SDS-107, SDS-108, SDS-120, SDM-113
- SDS-102, SDS-103, SDS-104, SDS-105, SDS-110 (TYPE C), SDS-118
- SM-08
- SEE PLANS & SPECS
- SDS-116
- SDW-110, SDW-148, SDW-151, SDW 152 TRUST AND ANCHOR BLOCK FOR 16" AND 20" SEE SHEET 24
- SDW-109, SDW-152, WY-05 SDW-154, SDW-163
- SDW-104, SDW-109, SDW-148, SDW-152, SDW-153, SEE SHEET 26 DETAIL "M" FOR EX. FIRE HYDRANT REPLACEMENT
- SDW-109, SDW-118, SDW-148, SDW-152, SDW-153, SEE SHEET 26 DETAIL "N" FOR EX. FIRE SERVICES REPLACEMENT
- SDW-107, SDW-134, SDW-135, SDW-136, SDW-137, SDW-138, SDW-148, SDW-149, SDW-150, WS-03, SEE SHEET 26 DETAIL "L" FOR EX. WATER SERVICES REPLACEMENT
- SDW-107, SDW-134, SDW-135, SDW-136, SDW-137, SDW-138, SDW-148, SDW-149, SDW-150, WS-03, SEE SHEET 25 DETAIL "I" FOR EX. WATER SERVICES REPLACEMENT
- SDW-117, SDW-148, SDW-159
- SDW-154
- FOR DETAIL, SEE SHEET 24
- WP-03, SEE SPECIFICATIONS
- SDW-162
- M-13
- SDW-170, SDW-171, SDW-172, SDW-173

### SYMBOL

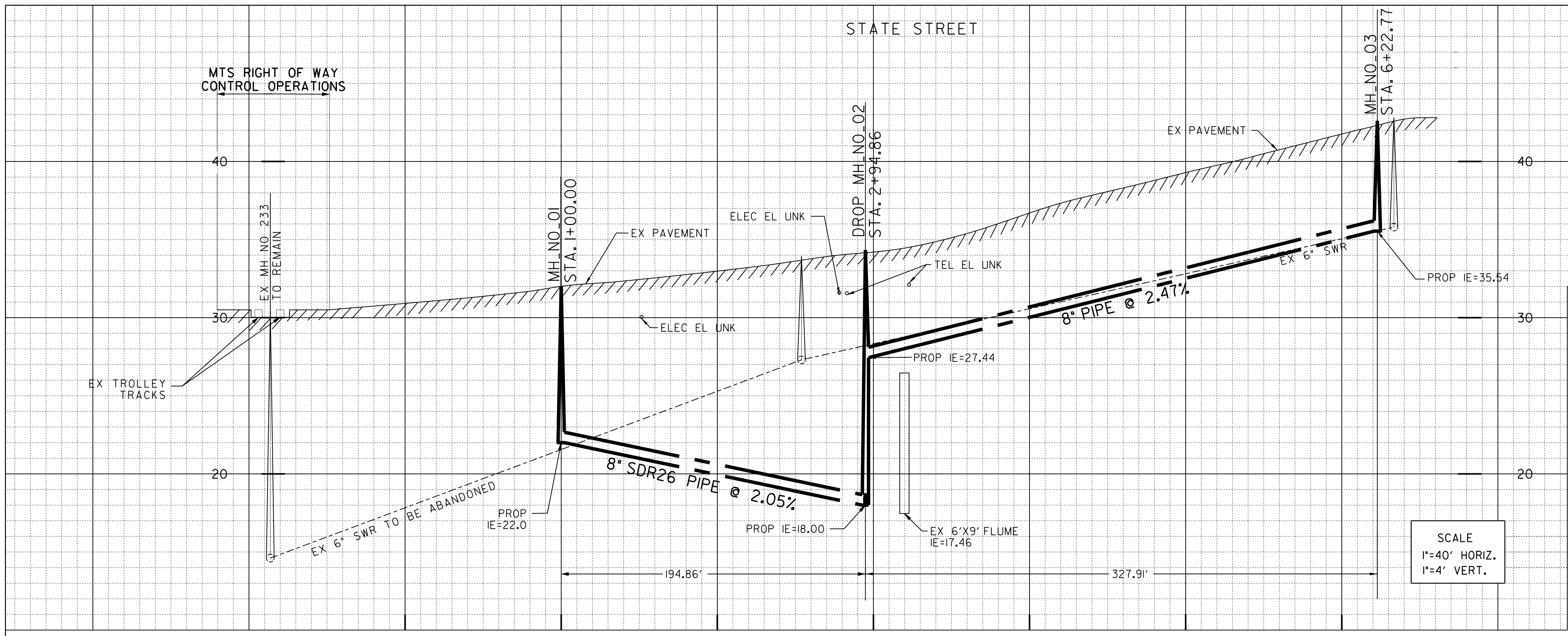


## PLANS FOR THE CONSTRUCTION OF SEWER AND WATER GROUP JOB 957 COVER SHEET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 1 OF 28 SHEETS		WATER WBS B-11154
APPROVED: <i>James</i> 2/13/13 FOR CITY ENGINEER DATE		SEWER WBS B-11152
DESIGNER: ALI MOHAMMADIAN	PROJECT MANAGER: JIM HAGHGOUY	
DESCRIPTION: ORIGINAL	BY: AM/SS	APPROVED: DATE: FILMED:
SEE SHEETS	CCS27 COORDINATE	
SEE SHEETS	CCS88 COORDINATE	
CONTRACTOR: _____	DATE STARTED: _____	36689-01-D
INSPECTOR: _____	DATE COMPLETED: _____	

SEWER AND WATER GROUP 957 COVER SHEET





PRINCIPLE SETTING OUT LINE

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (ft)	(STRAIGHT)
POB	1+00.00	1841980.99	6279773.04	STRAIGHT	194.86	N 0°25'50.06" E	
PI	6+22.77	1842175.85	6279774.52	STRAIGHT	327.91	N 0°25'51.64" E	
POE	7+48.31	1842503.75	6279776.98				

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

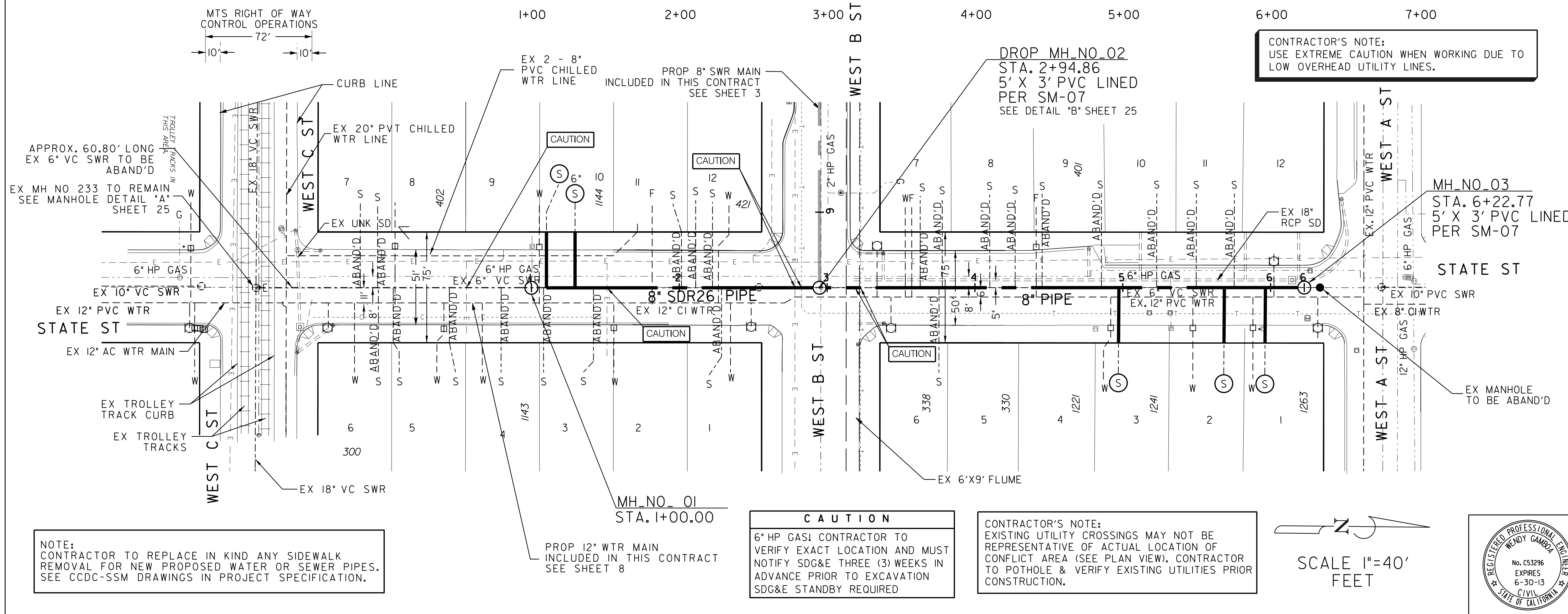
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 2+10.00	STA. 4+20.39	210.39

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.

MTS NOTE:  
WARNING HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM (OCS) NOT SHOWN

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

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



REFERENCE:

WATER:	30004-I-D, 30004-17-D, 30004-19-D, 13949-2-D
SEWER:	24903-12-D, 31874-2-D, AE105-2 24903-24-D, 14748-2-D, 19643-6-D
STORM DRAIN:	19643-6-D, 181-5-L
GAS:	1-225A, 15-274
ELECTRIC:	200-1716D
CABLE TV:	NONE
TELEPHONE:	SDGC013P120RI-37 (TEL LEVEL 3)
IMPROVEMENTS:	18576-24-D
100' SCALE/FIELD BOOK:	F21S, F22S
THOMAS BROS.:	18921-A3
HGL:	231
SIDEWALK:	CCDC-SSM

RETIREMENTS:

719.74' - VC - 6' - 1971
MH - 4X3 - 2 - 1971
4" LATERAL - 17 - VC - 1971

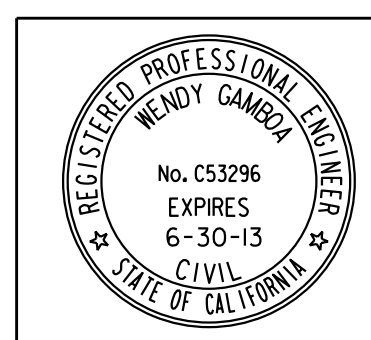
SEWER AND WATER GROUP 957  
STATE STREET  
WEST C ST TO WEST A ST

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 2 OF 28 SHEETS	WATER WBS N/A SEWER WBS B11152
FOR CITY ENGINEER: <i>James</i> 2/13/13 DATE	JIM HAGHOUY PROJECT MANAGER
DESCRIPTION: ORIGINAL	BY: AM/SS
APPROVED: _____	DATE: _____
FILED: _____	
CHIEF BY: ALI MOHAMMADIAN PROJECT ENGINEER	198-1719 CCS27 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____
INSPECTOR: _____	DATE COMPLETED: _____
	6280407-1838444 CCS83 COORDINATE
	36689-2-D

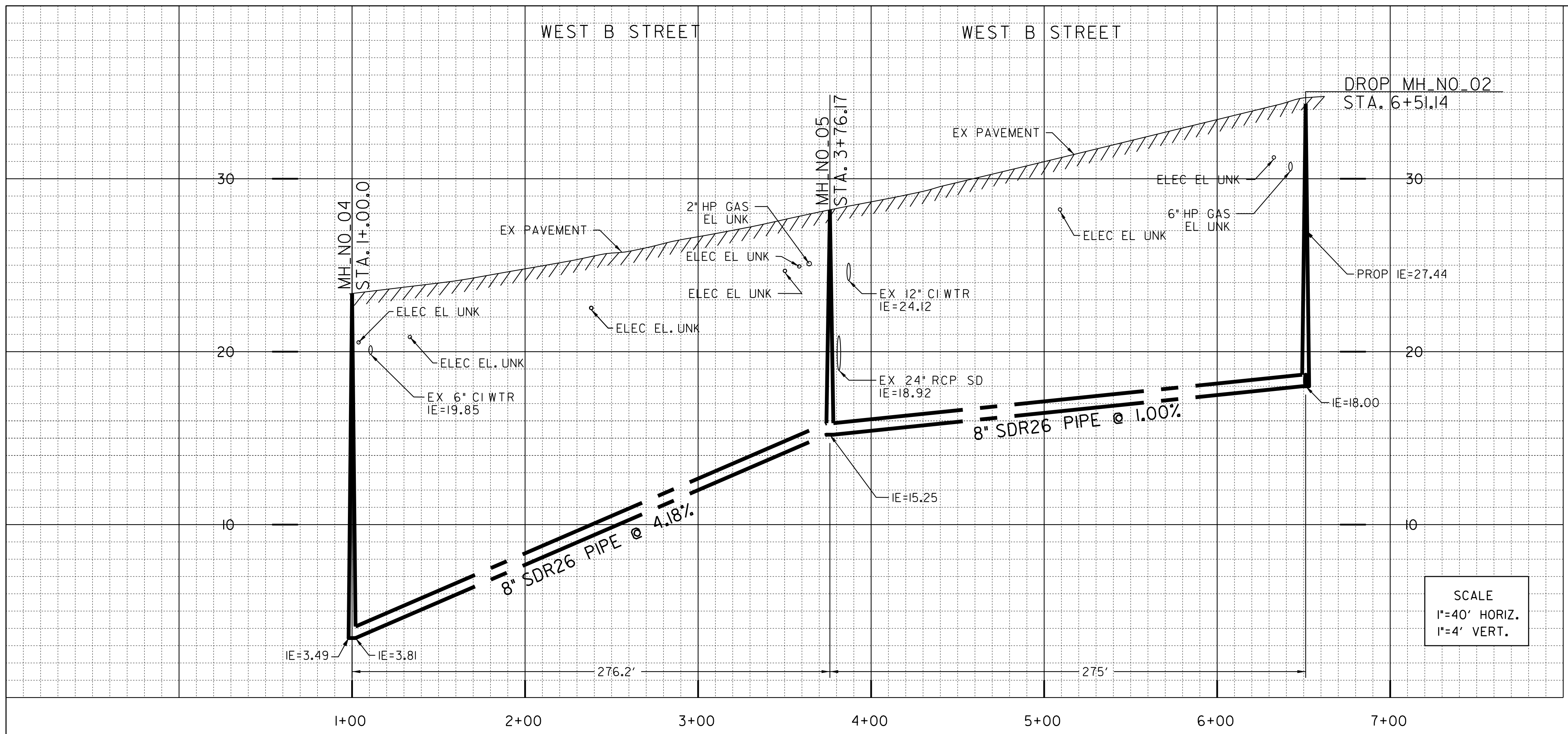
CAUTION  
6" HP GAS: CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION SDG&E STANDBY REQUIRED

CONTRACTOR'S NOTE:  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

SCALE 1"=40' FEET



STATE STREET

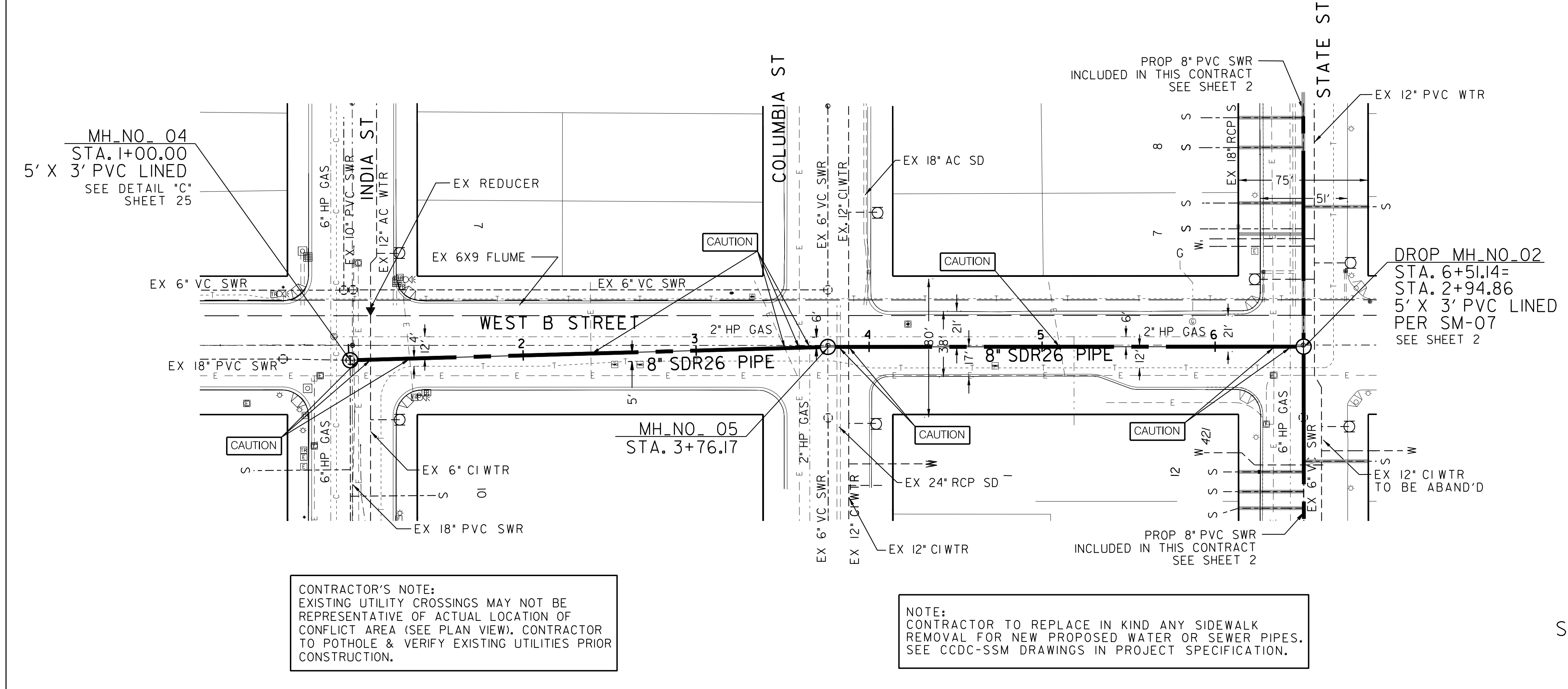


POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00" (STRAIGHT))
POB	1+00.00	1842172.95	6279223.44	STRAIGHT	276.17	N 88°54'53.97" E
PI	3+76.17	1842178.17	6279499.56	STRAIGHT	274.97	S89°30'58.01" E
POE	6+51.14	1842175.85	6279774.52			

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS  
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00	STA. 3+76.17	276.17
STA. 3+76.17	STA. 6+51.14	274.97

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:	22845-2-D, 18576-65-D
SEWER:	25001-3-D, 14748-2-D
STORM DRAIN:	181-5-L, 19643-6/7-D, 26114-2-D
GAS:	1-225A, 1-265
ELECTRIC:	200-1716D
CABLE TV:	NONE
TELEPHONE:	CS050IBC, SDGC013PI20RI-37(LEVEL 3)
IMPROVEMENTS:	19643-2-D, 19643-5-D
100' SCALE/FIELD BOOK:	F225
THOMAS BROS.:	1288-J3, 1289-A3
HGL:	231
SIDEWALK:	CCDC-SSM

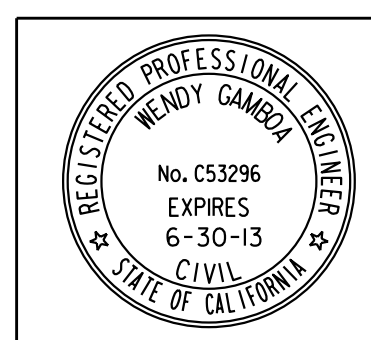
RETIREMENTS:  
NONE

CONTRACTOR'S NOTE:  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

NOTE:  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

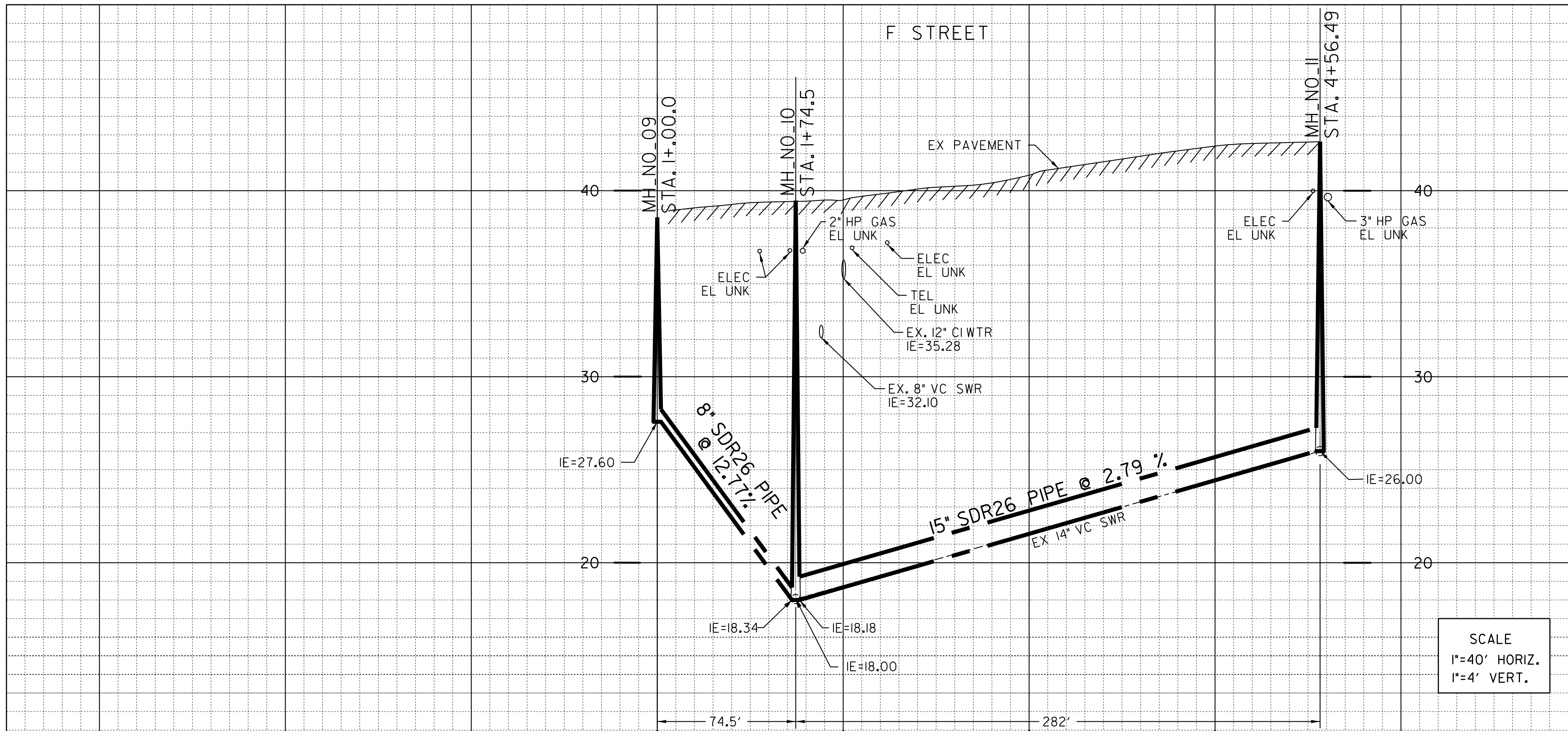


SCALE 1"=40' FEET



SEWER AND WATER GROUP 957 WEST B STREET INDIA ST TO STATE ST				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 3 OF 28 SHEETS				WATER WBS N/A SEWER WBS B1152
FOR CITY ENGINEER		DATE		PROJECT MANAGER
[Signature]		2/13/13		JIM HAGGOUY
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	AM/SS			
CHECKED BY				PROJECT ENGINEER
[Signature]				ALI MOHAMMADIAN
				198-1719
				CCS27 COORDINATE
				6280407-1838444
				CCS83 COORDINATE
CONTRACTOR		DATE STARTED		36689-3-D
INSPECTOR		DATE COMPLETED		

WEST B STREET



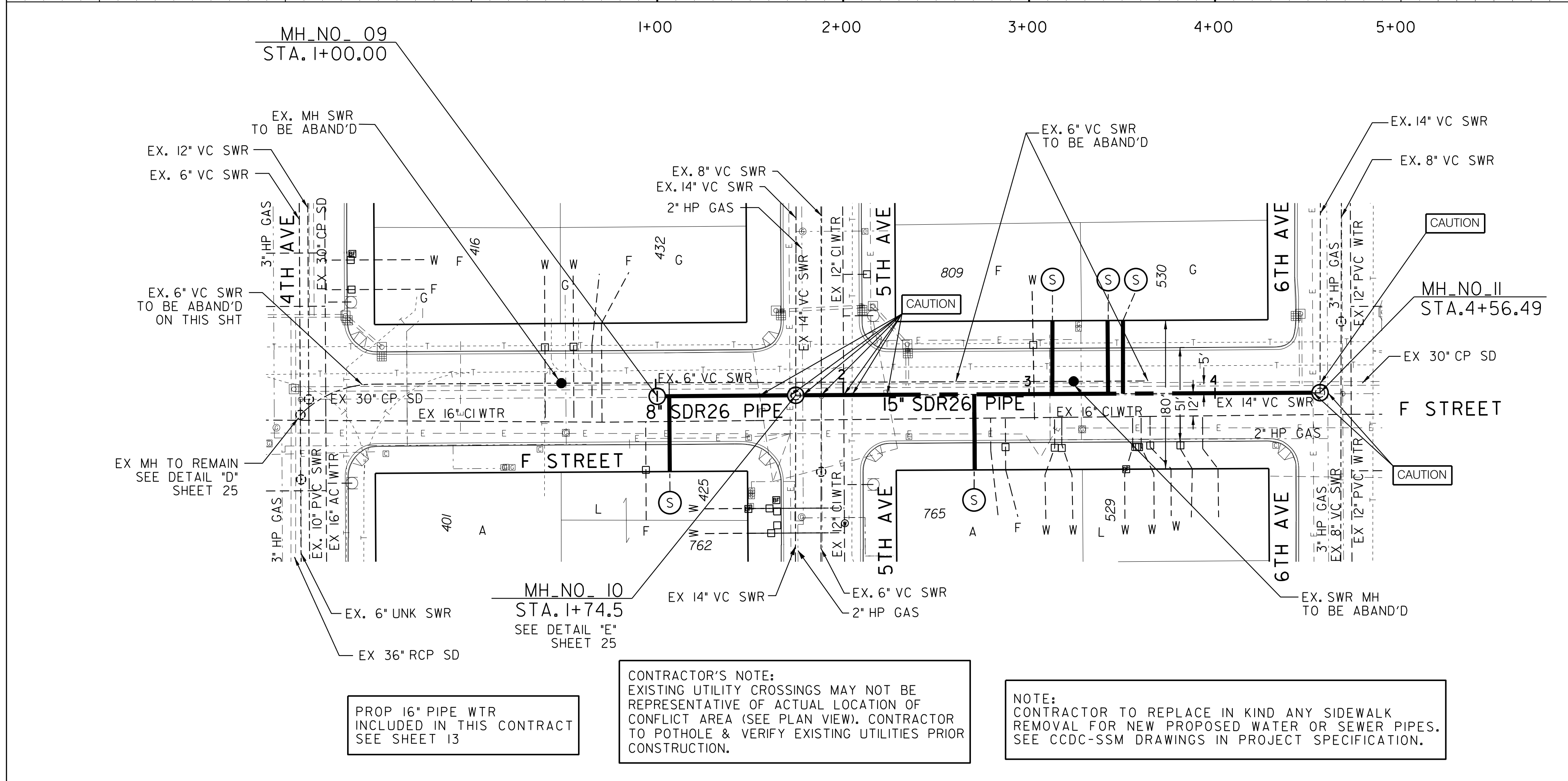
POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB	1+00.00	1840648.16	6281626.69	STRAIGHT	74.49	S 90°00'00.00" E
PI	1+74.49	1840648.16	6281701.18	STRAIGHT	282.00	S 89°51'04.26" E
POE	4+56.49	1840647.43	6281983.18			

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00	STA. 1+74.50	74.50

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.

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



**REFERENCE:**  
 WATER: 29045-12/14-D, 9443-D, I8322-4-D  
 SEWER: 20227-9-D, 8783-3-B, 8783-47-B  
 STORM DRAIN: 2345-D  
 GAS: 21735-9-D, 20227-9-D  
 ELECTRIC: 2345-D, 8783-47-B, 57 (50' SCALE)  
 I-114, I-162  
 CABLE TV: NONE  
 TELEPHONE: CS0303AD, CS0303BC, CS0303BD  
 IMPROVEMENTS: 21375-9-D  
 100' SCALE/FIELD BOOK: G22S  
 THOMAS BROS.: I289-C3  
 HGL: 231  
 SIDEWALK: CCDC-SSM

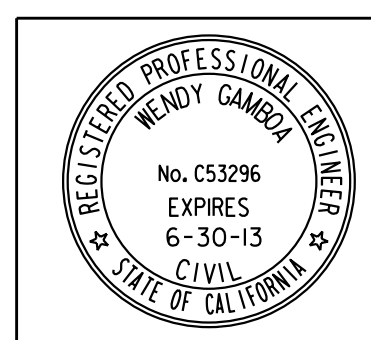
**RETIREMENTS:**  
 6" - VC - 315.52' - UNKNOWN  
 14" - VC - 282' - UNKNOWN  
 MH - 4X3 - 2 - UNKNOWN  
 4" LATERAL - 5 - VC - UNKNOWN

PROP 16" PIPE WTR INCLUDED IN THIS CONTRACT SEE SHEET 13

**CONTRACTOR'S NOTE:**  
 EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POT HOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

**NOTE:**  
 CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

SCALE 1"=40' FEET

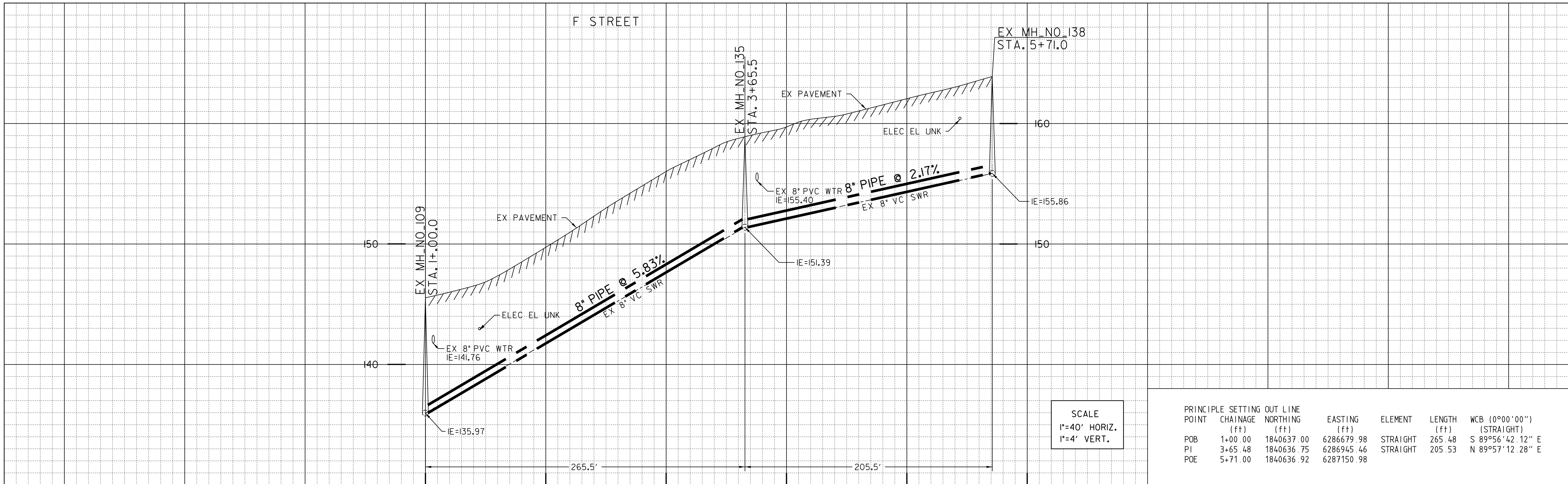


**SEWER AND WATER GROUP 957**  
F STREET  
5TH AVE TO 6TH AVE

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 4 OF 28 SHEETS		WATER WBS: N/A SEWER WBS: B1152
FOR CITY ENGINEER: <i>James</i>	DATE: 2/13/13	PROJECT MANAGER: JIM HAGGOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	DATE: FILMED
CHECKED BY: ALI MOHAMMADIAN PROJECT ENGINEER		198-1719 CCS27 COORDINATE
CONTRACTOR: _____ DATE STARTED: _____		6280407-1838444 CCS83 COORDINATE
INSPECTOR: _____ DATE COMPLETED: _____		36689-4 -D

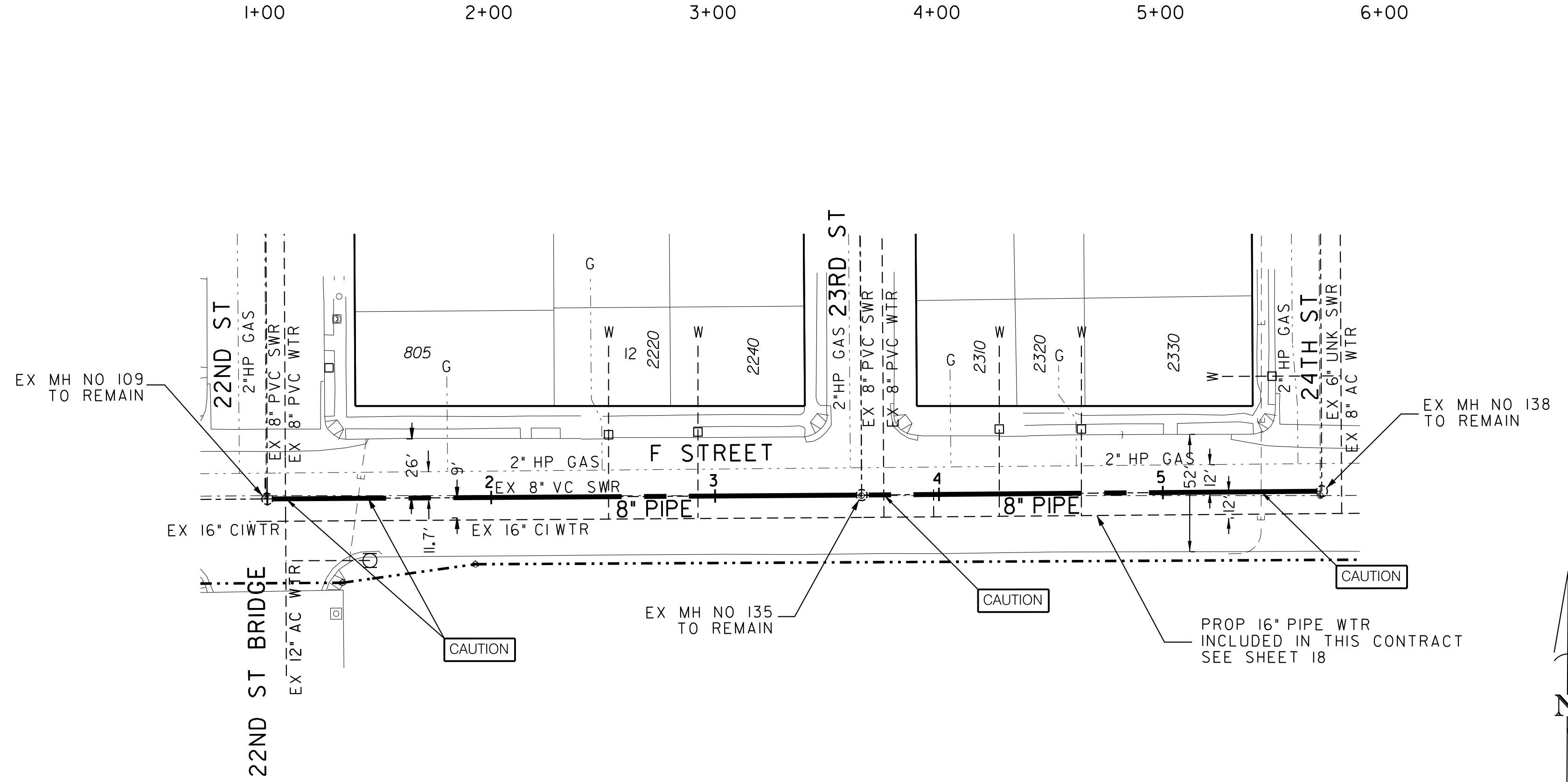
F STREET





POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB	1+00.00	1840637.00	6286679.98	STRAIGHT	265.48	S 89°56'42.12" E
PI	3+65.48	1840636.75	6286945.46	STRAIGHT	205.53	N 89°57'12.28" E
POE	5+71.00	1840636.92	6287150.98			

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

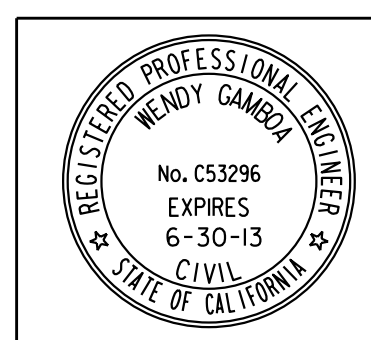


REFERENCE:  
 WATER: 29045-12/14-D, 9443-D, 18322-4-D  
 SEWER: 20227-9-D, 8783-3-B, 8783-47-B, 29045-28-D  
 STORM DRAIN: NONE  
 GAS: 5-155  
 ELECTRIC: NONE  
 CABLE TV: NONE  
 TELEPHONE: NONE  
 IMPROVEMENTS: NONE  
 100' SCALE/FIELD BOOK: H22S  
 THOMAS BROS.: 1289-C3  
 HGL: 231

RETIREMENTS:  
 8" - VC - 471' - 1958  
 MH - 4X3 - 3 - 1958

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

CONTRACTOR'S NOTE:  
 EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

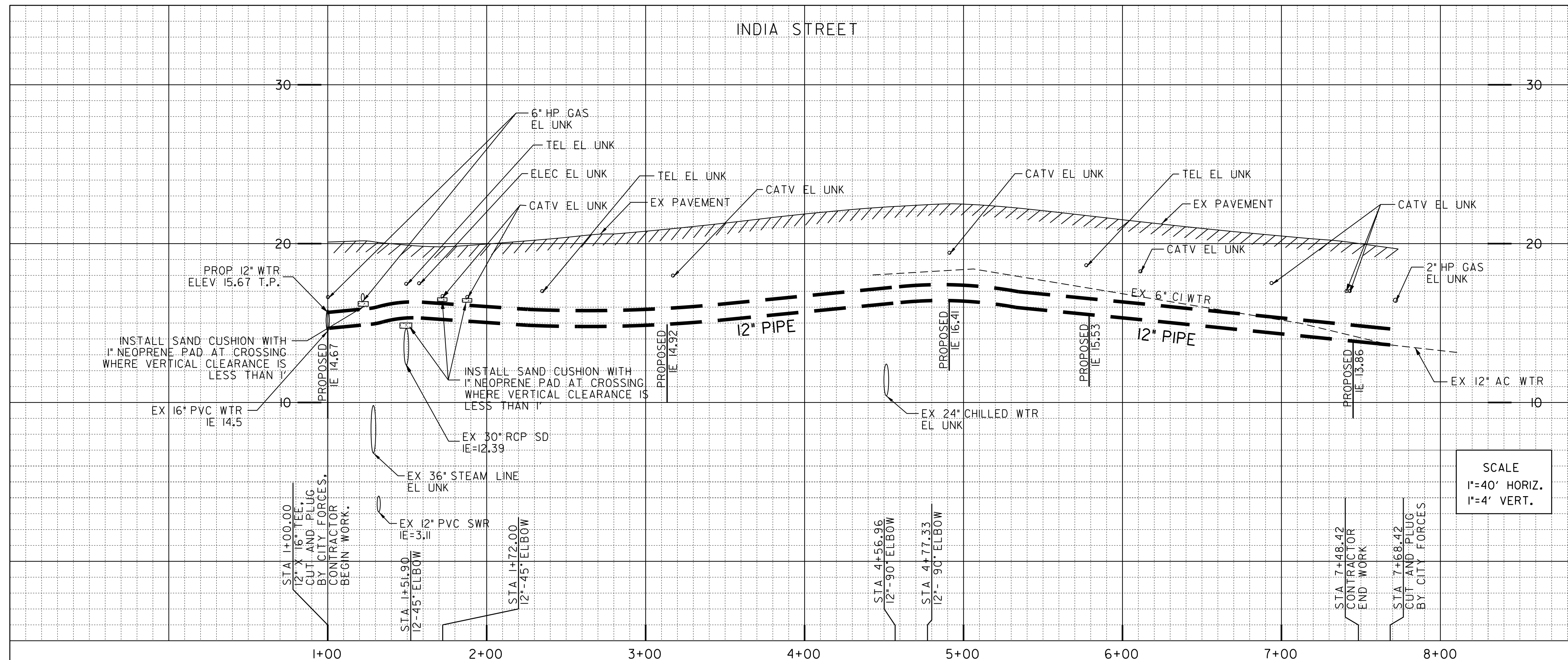


SCALE 1"=40' FEET

**SEWER AND WATER GROUP 957**  
 F STREET  
 22ND ST TO 24TH ST

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 5 OF 28 SHEETS		WATER WBS: N/A SEWER WBS: B11152
FOR CITY ENGINEER: <i>James</i>	DATE: 2/13/13	PROJECT MANAGER: JIM HAGGOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	PROJECT ENGINEER: ALI MOHAMMADIAN
APPROVED: [ ]	DATE: [ ]	COORDINATE: 198-1719
FILMED: [ ]		COORDINATE: 6280407-1838444
CONTRACTOR: _____	DATE STARTED: _____	COORDINATE: CCS83
INSPECTOR: _____	DATE COMPLETED: _____	36689-5-D

F STREET



- ⑧ BY CONTRACTOR FURNISH AND INSTALL  
STA 5+78.99  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY
- ⑨ BY CONTRACTOR FURNISH AND INSTALL  
STA 7+45.08  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER
- ⑩ BY CITY FORCES AHD OF CONTRACTOR  
STA 7+68.42  
CUT AND PLUG;  
EX 12" AC WTR RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.

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

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB	1+00.00	1841417.33	6279194.56	STRAIGHT	51.90	N 0°36'06.93" E
PI	1+51.90	1841469.23	6279195.11	STRAIGHT	20.10	N 45°36'06.93" E
PI	1+72.00	1841483.29	6279209.47	STRAIGHT	141.51	N 0°31'11.73" E
PI	3+13.51	1841624.80	6279210.75	STRAIGHT	143.45	N 0°31'11.73" E
PI	4+77.33	1841768.09	6279232.42	STRAIGHT	13.66	S 0°33'27.30" W
PI	4+90.98	1841754.43	6279232.29	STRAIGHT	88.00	S 0°06'29.02" W
PI	5+78.99	1841666.43	6279232.12	STRAIGHT	166.10	S 0°06'29.02" W
PI	7+45.08	1841500.33	6279231.81	STRAIGHT	23.33	S 0°30'03.23" W
POE	7+68.42	1841477.00	6279231.60			

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

**CONTRACTOR'S NOTE:**  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

**NOTE:**  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

**ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)**

BEGIN STATION	END STATION	APPROXIMATE LF
STA. 1+00	STA. 4+77.32	377.32

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE PROJECT'S MITIGATION AND MONITORING PROGRAM (MMRP).

**REFERENCE:**  
WATER: 18217-8-D, 24283-3-D, 24035-4-D, 24035-7-D, 31874-2, 24283-D  
SEWER: 22930-3-D, 22930-4-D, 24283-3-D  
GAS: 1-217  
ELECTRIC: NONE  
CABLE TV: NONE  
TELEPHONE: SDGC013PI23RI-40 (LEVEL 3)  
IMPROVEMENTS: NONE  
100' SCALE/FIELD BOOK: F22S  
THOMAS BROS.: 1288-J3  
HGL: 231  
SIDEWALK: CCDC-SSM

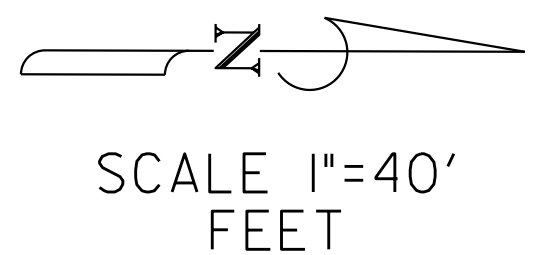
**RETIREMENTS:**  
6" - CI - 291' - 1987  
FH (3-PORT) - 2  
4" FS - UNK MATERIAL - 2 - 1987  
4" FS - PVC - 1 - 1987  
1" SERVICE - 5' - UNK MATERIAL - 1987  
2" SERVICE - 1' - PVC - 1987  
4" SERVICE - 1' - CI - 1987

**CONTRACTOR'S NOTE:**  
SEE 'DETAIL G' SHEET 25 FOR TYPICAL PROPOSED WATER SERVICE LOCATION WHEN EX SEWER LATERALS & WATER SERVICES ARE IN COMMON TRENCH OR CONFLICT.

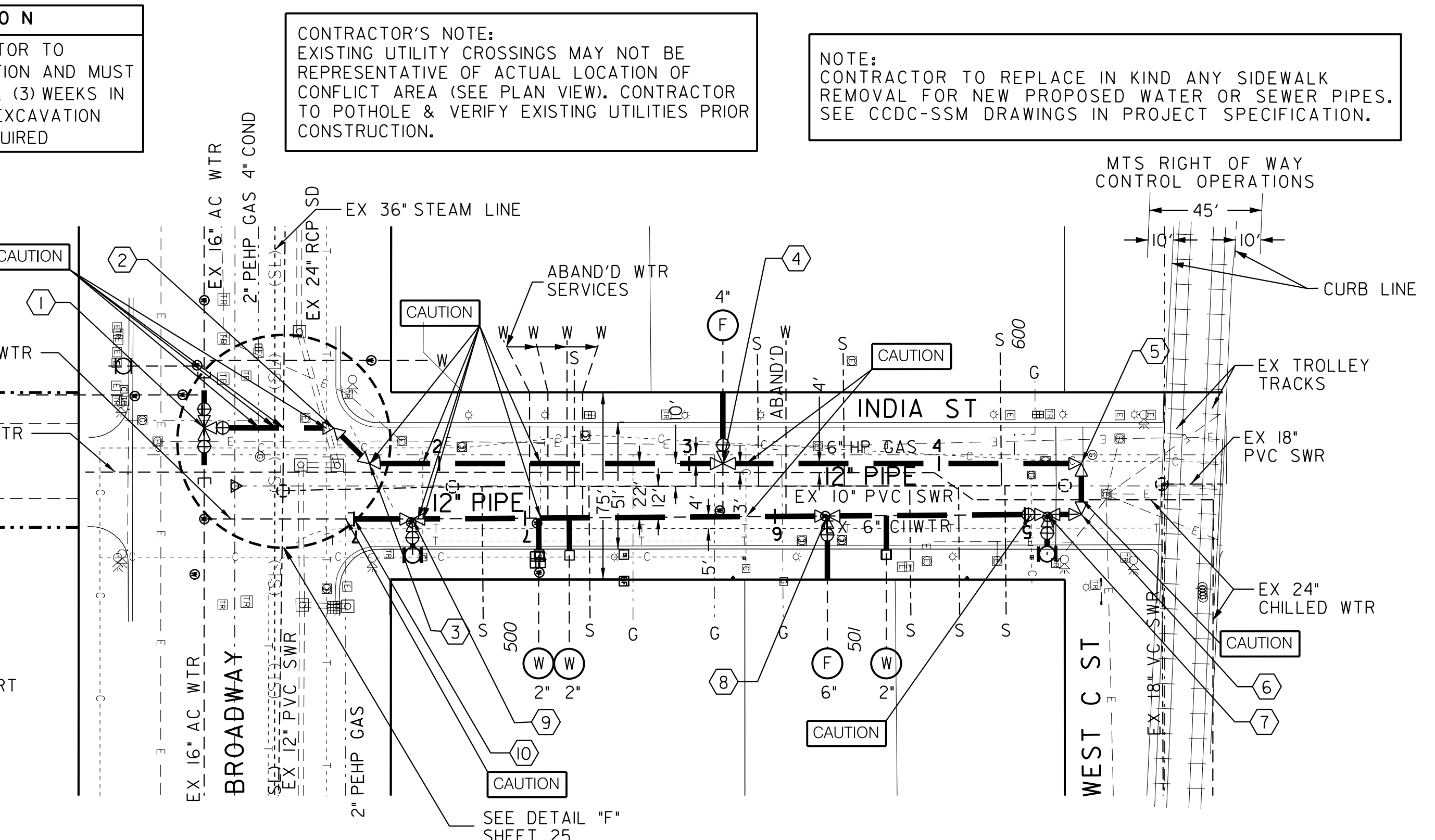
**HIGHLINING NOTE:**  
CONTRACTOR TO HIGHLINE INDIA ST FROM STA. 3+13.51 TO STA. 7+68.42. CONTRACTOR TO FURNISH HIGHLINE MATERIALS AND TRANSFER SERVICES. (TO INCLUDE SERVICES ON BOTH SIDES OF INDIA STREET).

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

**MTS NOTE:**  
WARNING HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM (OCS) NOT SHOWN



- ① BY CITY FORCES AHD OF CONTRACTOR  
STA 1+00.00  
CUT AND PLUG;  
EX 16" AC WTR 20' LT, 20' RT RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.
- ② BY CONTRACTOR FURNISH AND INSTALL  
STA 1+00.00  
1- 16" X 12" TEE (F)  
2- 16" BV (F, MJ) LT, RT  
1- 12" GV (F, MJ) AHD  
1- 16" PIPE 10' MIN STUB OUT LT  
1- 16" PIPE 10' MIN STUB OUT RT
- ③ BY CONTRACTOR FURNISH AND INSTALL  
STA 1+72.00  
1- 12"-45" ELBOW
- ④ BY CONTRACTOR FURNISH AND INSTALL  
STA 3+13.51  
1- 12" X 4" TEE (MJ, MJ, F)  
1- 4" FS CONNECTION & ASSY
- ⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+56.96  
1- 12"-90" ELBOW
- ⑥ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+77.33  
1- 12"-90" ELBOW
- ⑦ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+90.98  
1- 12" X 6" TEE (F, F, MJ)  
1- 6" FH ASSY AND MARKER  
1- 12" GV (F, MJ) AHD



- ⑧ BY CONTRACTOR FURNISH AND INSTALL  
STA 5+78.99  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY
- ⑨ BY CONTRACTOR FURNISH AND INSTALL  
STA 7+45.08  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER
- ⑩ BY CITY FORCES AHD OF CONTRACTOR  
STA 7+68.42  
CUT AND PLUG;  
EX 12" AC WTR RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.

INDIA STREET

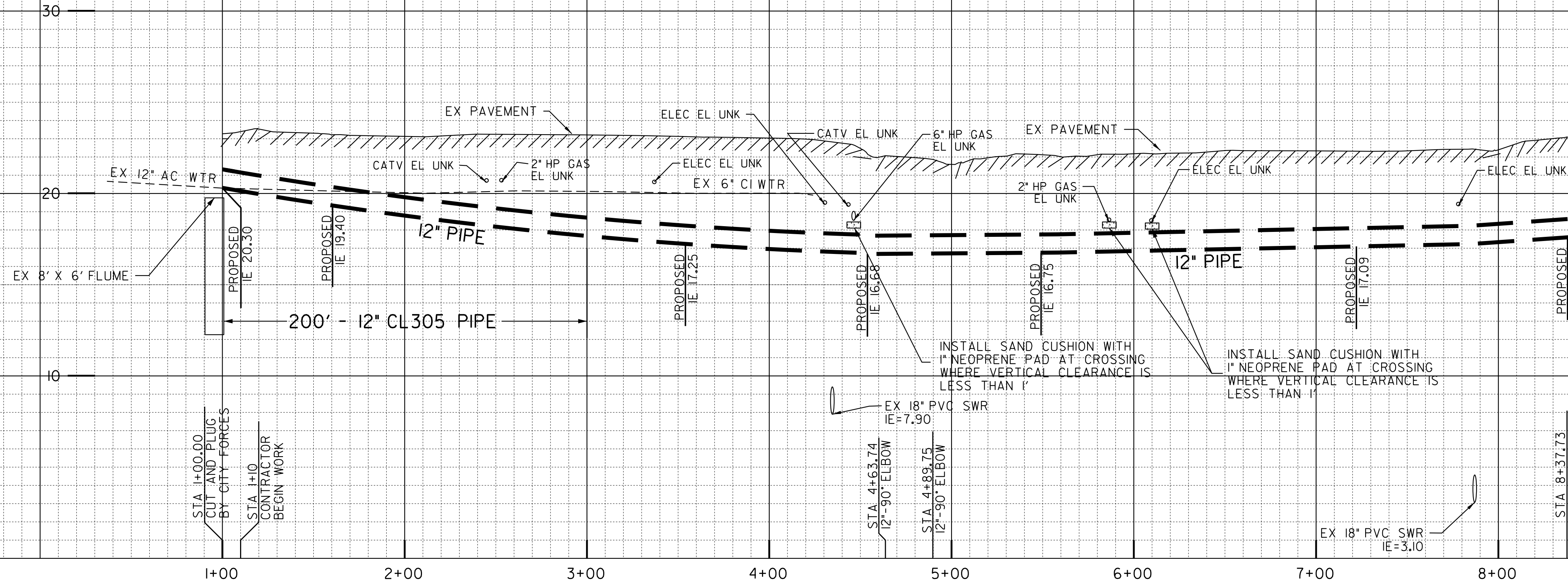
C-5

**SEWER AND WATER GROUP 957**  
INDIA STREET  
BROADWAY TO WEST C ST

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 6 OF 28 SHEETS		WATER WBS: BIII54 SEWER WBS: N/A
FOR CITY ENGINEER: <i>James</i>	DATE: 2/13/13	PROJECT MANAGER: JIM HAGHOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	APPROVED: ALI MOHAMMADIAN PROJECT ENGINEER
		198-1719 CCS27 COORDINATE
		6280407-1838444 CCS83 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____	36689-6-D
INSPECTOR: _____	DATE COMPLETED: _____	



INDIA STREET



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

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB	1+00.00	1842198.91	6279235.44	STRAIGHT	60.44	S 0°32'04.06" W
PI	1+60.44	1842138.46	6279234.88	STRAIGHT	193.56	S 0°32'29.89" W
PI	3+54.01	1841944.91	6279233.05	STRAIGHT	99.73	S 0°28'08.30" W
PI	4+53.74	1841845.18	6279232.23	STRAIGHT	10.00	S 0°13'12.23" W
PI	4+63.74	1841835.18	6279232.19	STRAIGHT	26.01	N 89°36'06.83" W
PI	4+89.75	1841835.36	6279206.19	STRAIGHT	59.37	N 0°28'22.18" E
PI	5+49.12	1841894.73	6279206.68	STRAIGHT	172.98	N 0°31'32.40" E
PI	7+22.10	1842067.71	6279208.26	STRAIGHT	115.63	N 0°31'32.40" E
POE	8+37.73	1842183.34	6279209.32			

MTS NOTE:  
WARNING HIGH VOLTAGE 650V DC  
TROLLEY OVERHEAD CATENARY SYSTEM  
(OCS) NOT SHOWN

NOTE:  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK  
REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES.  
SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS  
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 4+22.99	STA. 8+37.73	414.74

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: 25001-3-D, 22845-2-D, 24569-5-D  
WATER CHILLED: 24035-7-D  
SEWER: 25001-3-D  
STORM DRAIN: 181-5-L, 30970-5-D  
GAS: I-265  
ELECTRIC: 200-1716D  
CABLE TV: SDGCOI3PI22RI-39 (LEVEL 3)  
TELEPHONE: IMPROV  
IMPROVEMENTS: F22S  
100' SCALE/FIELD BOOK: I288-J3  
THOMAS BROS.: 231  
HGL: CCDC-SSM  
SIDEWALK:

RETIREMENTS:  
6" - CI - 364' - 1987  
FH (3-PORT) - 2  
6" FS - CI - 1 - 1987  
1" SERVICE - I - UNK MATERIAL - 1987  
2" SERVICE - I - UNK MATERIAL - 1987  
4" SERVICE - I - UNK MATERIAL - 1987

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

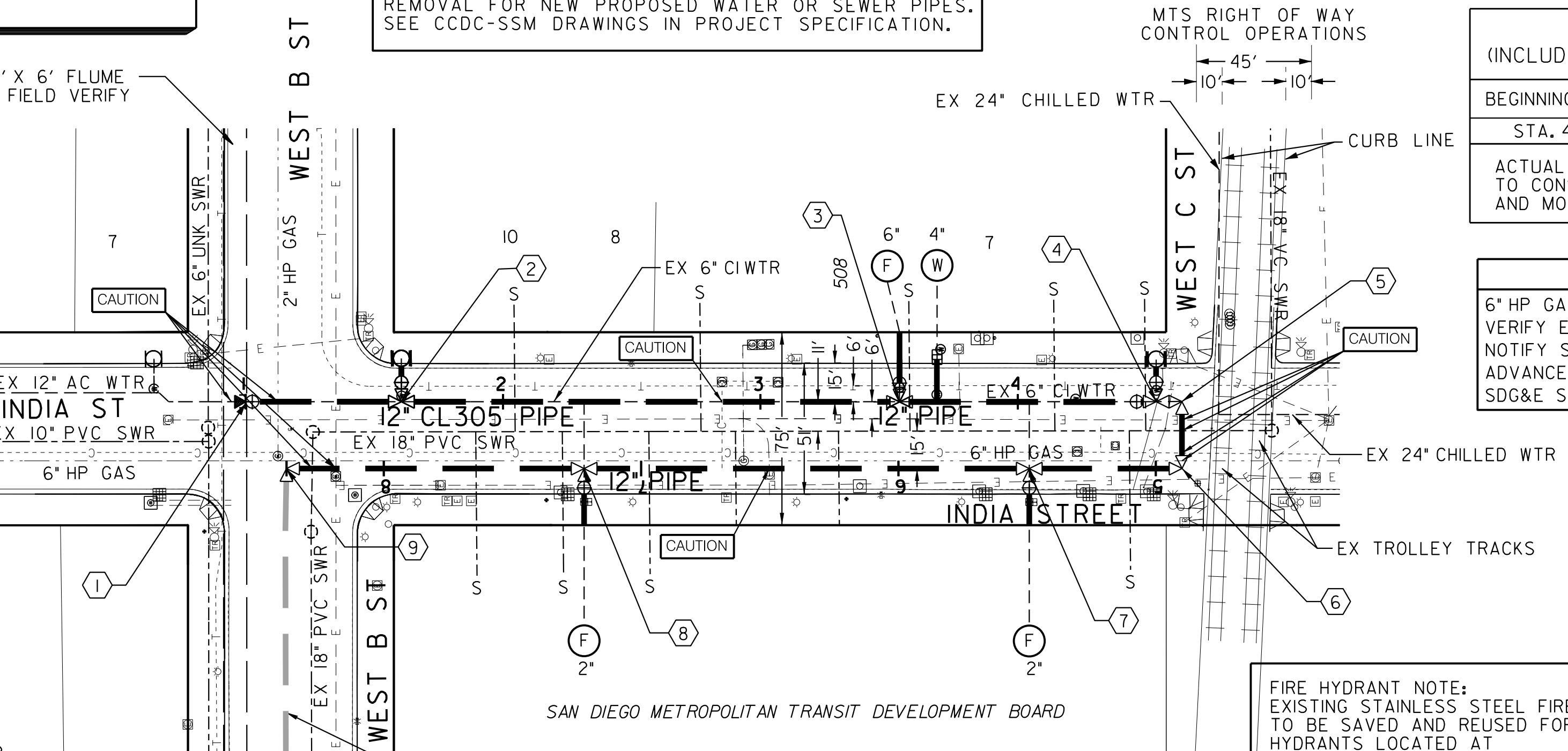
CONTRACTOR'S NOTE:  
SEE "DETAIL G" SHEET 25 FOR TYPICAL PROPOSED WATER SERVICE LOCATION WHEN EX SEWER LATERALS & WATER SERVICES ARE IN COMMON TRENCH OR CONFLICT.

HIGHLINE NOTE:  
CONTRACTOR TO HIGHLINE INDIA ST FROM STA. 1+00 TO STA. 7+22.10, CONTRACTOR TO FURNISH HIGHLINE MATERIALS AND TRANSFER SERVICES. (TO INCLUDE SERVICES ON BOTH SIDES OF INDIA STREET).

CONTRACTOR'S NOTE:  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

FIRE HYDRANT NOTE:  
EXISTING STAINLESS STEEL FIRE HYDRANTS TO BE SAVED AND REUSED FOR THE FIRE HYDRANTS LOCATED AT STA 1+60.44 AND STA 4+53.74

- ① BY CITY FORCES AND OF CONTRACTOR  
STA 1+00  
CUT AND PLUG:  
EX 12" AC WTR,  
REMOVE EX REDUCER,  
RECONNECT AFTER  
NEW MAIN HAS BEEN  
ACCEPTED.
- ① BY CONTRACTOR  
FURNISH AND INSTALL  
STA 1+10  
1- 12" GV (MJ, MJ)
- ② BY CONTRACTOR  
FURNISH AND INSTALL  
STA 1+60.44  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER  
SEE FH NOTE, THIS SHEET
- ③ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 3+54.01  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION  
& ASSY



- ④ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 4+53.74  
1- 12" X 6" TEE (F, F, MJ)  
1- 6" FH ASSY AND MARKER  
1- 12" GV (F, MJ) BK  
SEE FH NOTE, THIS SHEET
- ⑤ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 4+63.74  
1- 12"-90° ELBOW
- ⑥ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 4+89.75  
1- 12"-90° ELBOW
- ⑦ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 5+49.12  
1- 12" X 2" TEE (MJ, MJ, F)  
1- 2" FS CONNECTION  
& ASSY
- ⑧ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 7+22.10  
1- 12" X 2" TEE (MJ, MJ, F)  
1- 2" FS CONNECTION  
& ASSY
- ⑨ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 8+37.73  
1- 12"-90° ELBOW

SCALE 1"=40' FEET



C-6

SEWER AND WATER GROUP 957  
INDIA STREET  
WEST B ST TO WEST C ST

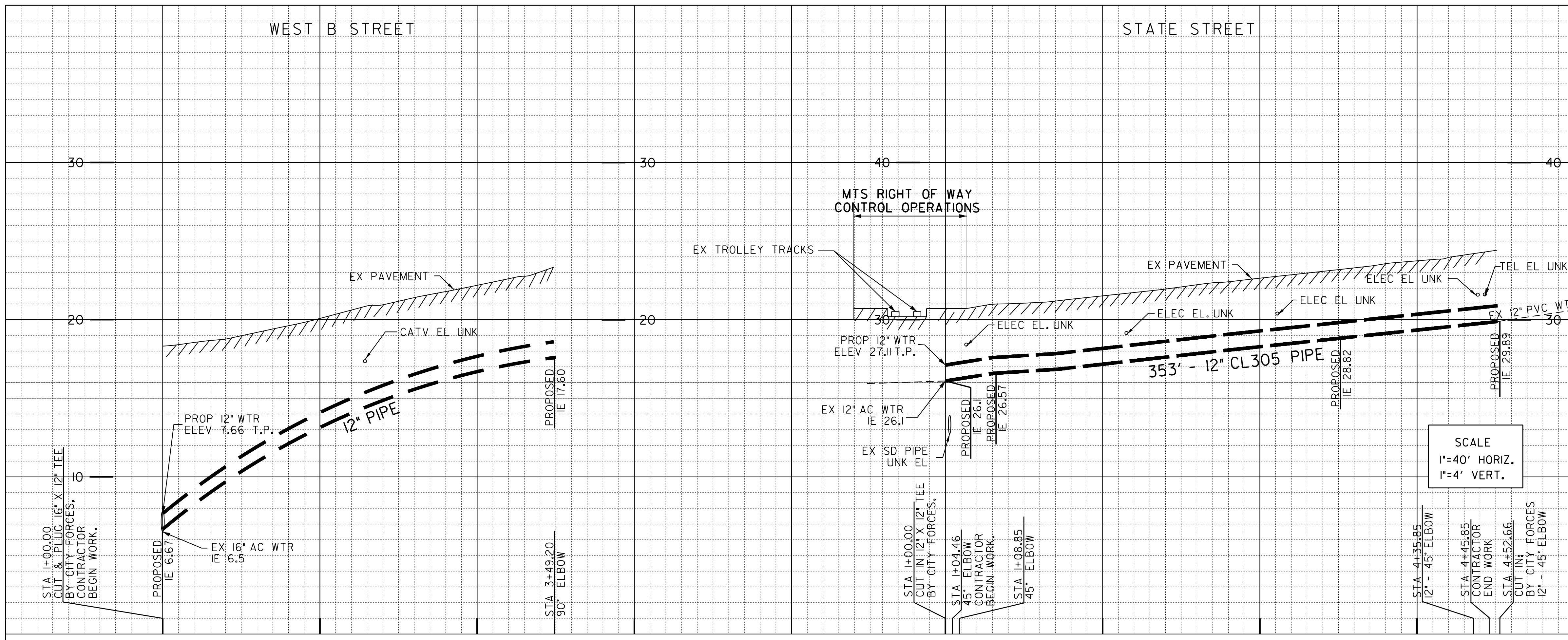
CITY OF SAN DIEGO, CALIFORNIA  
PUBLIC WORKS-ENGINEERING DEPARTMENT  
SHEET 7 OF 28 SHEETS

FOR CITY ENGINEER: *James* 2/13/13 DATE  
DATE  
DATE

WATER WBS: BIII54  
SEWER WBS: N/A

PROJECT MANAGER: JIM HAGGOUY  
PROJECT ENGINEER: ALI MOHAMMADIAN  
PROJECT ENGINEER: 198-1719  
COORDINATOR: 6280407-1838444  
COORDINATOR: 36689-7-D

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



PRINCIPLE SETTING OUT LINE FOR PLAN A

POINT CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB 1+00.00	1842185.04	6278960.13	STRAIGHT	249.20	S 89°36'33.39" E
POE 3+49.20	1842183.34	6279209.32			

PRINCIPLE SETTING OUT LINE FOR PLAN B

POINT CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB 1+00.00	1841818.82	6279782.00	STRAIGHT	7.50	S 89°29'03.21" E
PI 1+07.50	1841818.75	6279789.50	STRAIGHT	24.69	N 1°11'28.51" E
PI 1+32.19	1841843.44	6279790.01	STRAIGHT	219.09	N 0°26'37.51" E
PI 3+51.28	1842062.52	6279791.71	STRAIGHT	84.57	N 0°30'56.79" E
PI 4+35.85	1842147.09	6279792.47	STRAIGHT	16.80	N 44°36'24.44" W
POE 4+52.66	1842159.05	6279780.67			

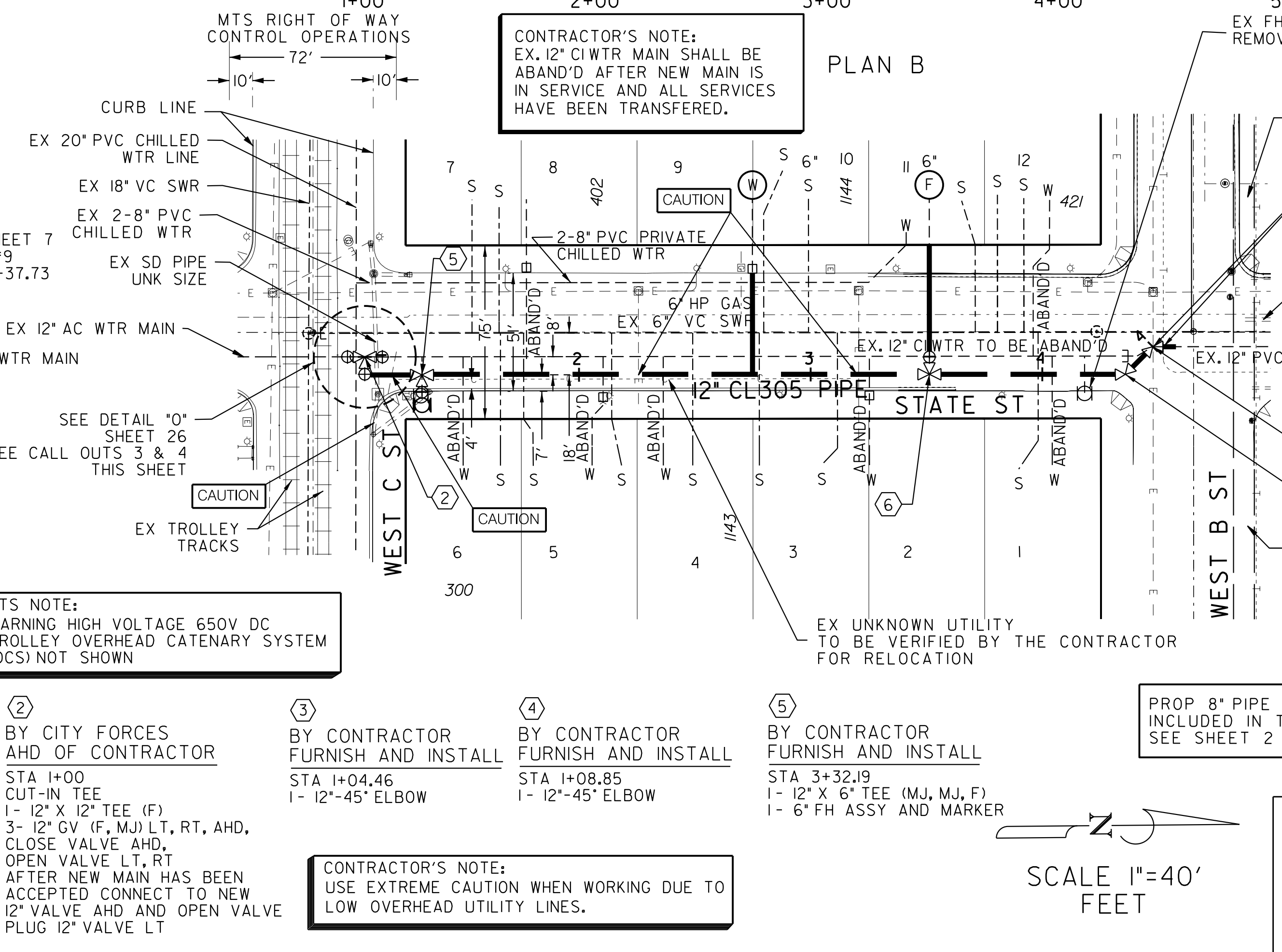
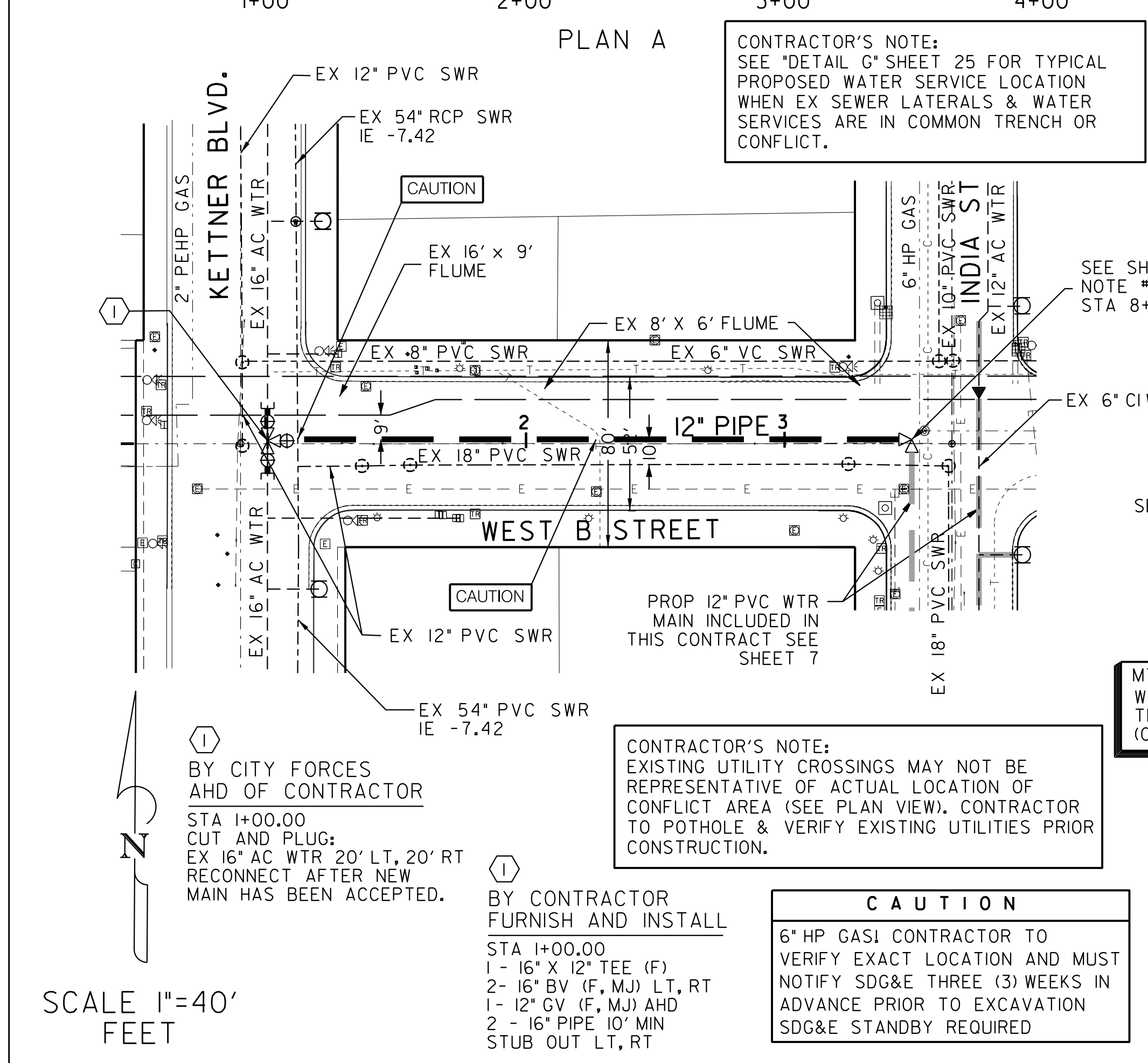
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00	STA. 3+49.20	249.20
STA. 1+00	STA. 4+45.85	345.85

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.

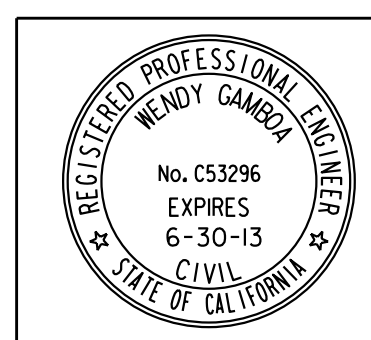
- ⑥ BY CONTRACTOR FURNISH AND INSTALL  
STA 3+51.28  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY
- ⑦ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+35.85  
1- 12"-45" ELBOW  
1- 12" PIPE 10' MIN STUB OUT.
- ⑧ BY CITY FORCES AFTER CONTRACTOR  
STA 4+52.66  
AFTER NEW MAIN HAS BEEN ACCEPTED  
CUT IN:  
1- 12" 45" ELBOW CONNECT TO 12" PIPE.

NOTE: CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.



- REFERENCE:
- WATER: 14835-3-D, 22845-2-D, 24902-9-D, 18576-65-D, 30004-19-D, 24 (50' SCALE), 24903-12-D, 31874-2-D, 14534-4-D, 25001-3-D, 24903-24-D, 14748-2-D
- STORM DRAIN: 181-7-L, 19643-6-D
- GAS: 1-265, 1-225A, 200-1716D
- ELECTRIC: NONE
- CABLE TV: SDGC013PI20RI-37(LLEVEL3), CS050ICB
- TELEPHONE: NONE
- IMPROVEMENTS: F22S
- 100' SCALE/FIELD BOOK: 1288-J3, 1289-A3
- THOMAS BROS.: 231
- HGL: CCDC-SSM
- SIDEWALK: CCDC-SSM
- RETIREMENTS:
- 12" - CI - 339.25' - 1911
  - 6" (3-PORT) - 2
  - 1" SERVICE - 4 - UNK MATERIAL - 1911
  - 1" SERVICE - 1 - PVC - 1911
  - 2" SERVICE - 3 - UNK MATERIAL - 1911
  - 12" SERVICE - 1 - CI - 1911

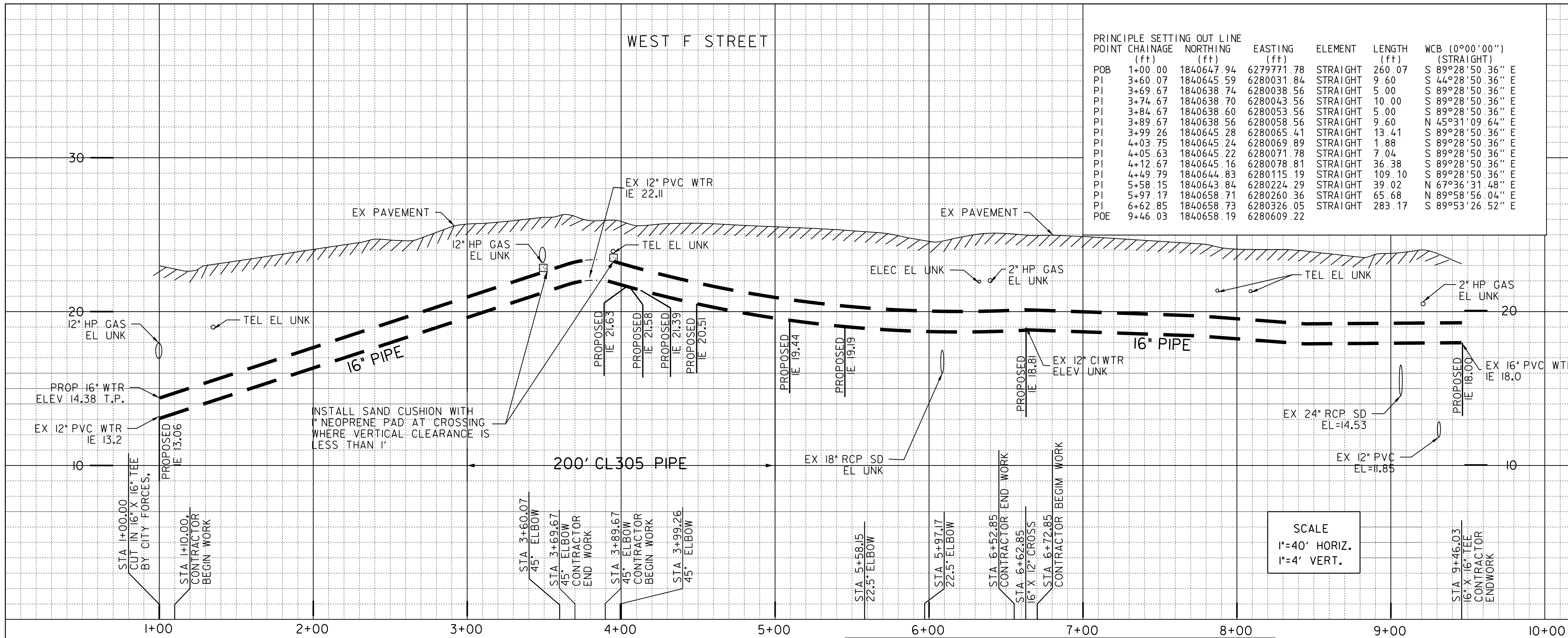
WEST B STREET / STATE STREET



SEWER AND WATER GROUP 957  
WEST B STREET / STATE STREET  
KETTNER BLVD TO INDIA ST/  
WEST C ST TO WEST B ST

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 8 OF 28 SHEETS	WATER WBS: B1154 SEWER WBS: N/A
FOR CITY ENGINEER: <i>James</i> 2/13/13 DATE	PROJECT MANAGER: JIM HAGHOUJ
DESCRIPTION: ORIGINAL	BY: AM/SS
APPROVED: _____	DATE: _____
FILED: _____	DATE: _____
CHIEF ENGINEER: ALI MOHAMMADIAN	PROJECT ENGINEER: _____
198-1719	CCS27 COORDINATE
6280407-1838444	CCS83 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____
INSPECTOR: _____	DATE COMPLETED: _____
	36689-8-D





PRINCIPLE SETTING OUT LINE

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (ft)
POB	1+00.00	1840647.94	6279771.78	STRAIGHT	260.07	S 89°28'50.36" E
PI	3+60.07	1840645.59	6280031.84	STRAIGHT	9.60	S 44°28'50.36" E
PI	3+69.67	1840638.74	6280038.56	STRAIGHT	5.00	S 89°28'50.36" E
PI	3+74.67	1840638.70	6280043.56	STRAIGHT	10.00	S 89°28'50.36" E
PI	3+84.67	1840638.60	6280053.56	STRAIGHT	5.00	S 89°28'50.36" E
PI	3+89.67	1840638.56	6280058.56	STRAIGHT	9.60	N 45°31'09.64" E
PI	3+99.26	1840645.28	6280065.41	STRAIGHT	13.41	S 89°28'50.36" E
PI	4+03.75	1840645.24	6280069.89	STRAIGHT	1.88	S 89°28'50.36" E
PI	4+05.63	1840645.22	6280071.78	STRAIGHT	7.04	S 89°28'50.36" E
PI	4+12.67	1840645.16	6280078.81	STRAIGHT	36.38	S 89°28'50.36" E
PI	4+49.79	1840644.83	6280115.19	STRAIGHT	109.10	S 89°28'50.36" E
PI	5+58.15	1840643.84	6280224.29	STRAIGHT	39.02	N 67°36'31.48" E
PI	5+97.17	1840658.71	6280260.36	STRAIGHT	65.68	N 89°58'56.04" E
PI	6+62.85	1840658.73	6280326.05	STRAIGHT	283.17	S 89°53'26.52" E
POE	9+46.03	1840658.19	6280609.22			

- ⑧ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+49.79  
1- 16" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY
- ⑨ BY CONTRACTOR FURNISH AND INSTALL  
STA 5+58.15  
1- 16"-22.5" ELBOW
- ⑩ BY CONTRACTOR FURNISH AND INSTALL  
STA 5+97.17  
1- 16"-22.5" ELBOW
- ⑪ BY CITY FORCES AHD OF CONTRACTOR  
STA 6+62.85  
CUT IN:  
1- 16" X 12" CROSS (F) AND BYPASS  
2- 16" BV (F, MJ) AHD, BK  
2- 12" GV (F, MJ) LT, RT  
1- 12" PVC 20' MIN STUB OUT RT  
CONNECT TO EX 12" MAIN, CLOSE 16" BV AHD, BK AFTER NEW MAIN HAS BEEN ACCEPTED CONNECT TO NEW 16" BV BK, AHD AND OPEN VALVES
- ⑫ BY CITY FORCES AHD OF CONTRACTOR  
STA 9+46.03  
CUT AND PLUG:  
EX 16" AC WTR 10' LT, 20' RT  
CLOSE 16" BV BK  
AFTER NEW MAIN HAS BEEN ACCEPTED, CONNECT TO EX 16" VALVE BK AND OPEN
- ⑬ BY CITY FORCES AFTER CONTRACTOR  
STA 1+00.00 @ 10' RT  
CLOSE NEW 16" BV 10' LT  
CUT AND PLUG EX 12" PVC RT  
AND 16" CIWTR AHD.  
REMOVE EX TEE AND VALVES  
CONNECT TO 12" REDUCER LT  
COORDINATE WITH CONTRACTOR  
TO FILL AND ABANDON THE PIPE.  
PERMANENTLY PLUG EX 16" CI  
WTR AHD. OPEN NEW VALVE LT.
- ⑭ BY CITY FORCES AFTER CONTRACTOR  
STA 6+62.85 @ 10' RT  
CLOSE NEW 16" VALVE LT  
CUT AND PLUG EX 12" &  
16" CIWTR AHD, BK, RT  
REMOVE EX TEES AND VALVES  
CONNECT STUBOUT TO  
EX 12" WTR RT  
COORDINATE WITH CONTRACTOR  
TO FILL AND ABANDON THE PIPE.  
PERMANENTLY PLUG EX 16" CIWTR  
AHD OPEN VALVE LT.
- ⑮ BY CITY FORCES AFTER CONTRACTOR  
STA 9+46.03 @ 10' RT  
CLOSE 16" BV LT  
CUT AND PLUG EX 16" CIBK  
REMOVE EX TEES AND VALVES  
CONNECT STUBOUT TO  
EX 16" AC WTR RT  
OPEN 16" BV LT  
COORDINATE WITH CONTRACTOR  
TO FILL AND ABANDON  
EX 16" CIWTR BK  
PERMANENTLY PLUG  
EX 16" CIWTR BK

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

CONTRACTOR'S NOTE:  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

NOTE:  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

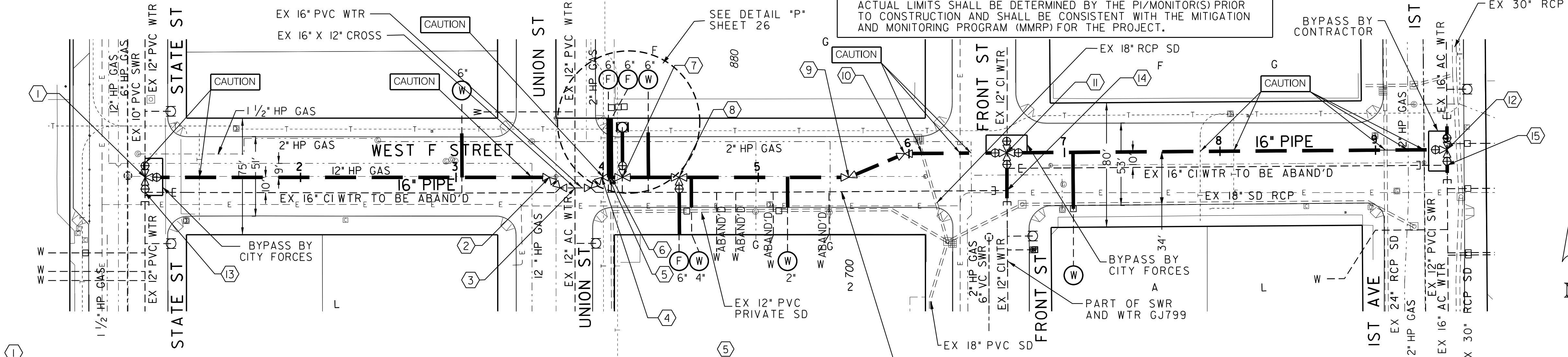
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00	STA. 3+69.67	269.67
STA. 3+89.67	STA. 9+46.03	556.36

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: 21623-3-D, 31303-13-D, 24903-II-D, 20316-D, 24903-23-D
  - SEWER: 20689-5-D, 21623-3-D, 21493-2-D
  - STORM DRAIN: 1-167, 1-165, 1-75, 1-119, 1-131
  - GAS: 200-1716B
  - ELECTRIC: NONE
  - CABLE TV: NONE
  - TELEPHONE: CS0503BC, CS0503BD, CS0303AC
  - IMPROVEMENTS: NONE
  - 100' SCALE/FIELD BOOK: F225
  - THOMAS BROS.: 1289-A3
  - HGL: 231
  - SIDEWALK: CCDC-SSM

- RETIREMENTS:
- 16" - CI - 819.73' - 1954
  - FH (3-PORT) - 1
  - 4" FS - CI - 1
  - 6" FS - AC - 2
  - 1" SERVICE - 2 - UNK MATERIAL - 1954
  - 2" SERVICE - 3 - UNK MATERIAL - 1954
  - 6" SERVICE - 3 - UNK MATERIAL - 1954

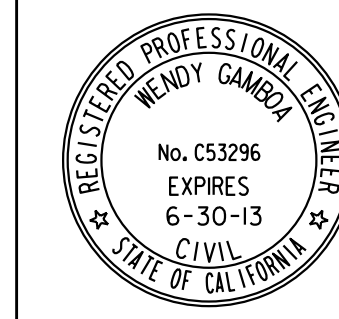


- ① BY CITY FORCES AHD OF CONTRACTOR  
STA 1+00.00  
CUT IN:  
1- 16" X 16" TEE (F) AND BYPASS  
3- 16" BV (F, MJ) RT, LT, AHD  
2- 16" X 12" REDUCER 3' LT, RT  
CLOSE NEW 16" BV AHD  
OPEN 16" BV LT, RT  
AFTER NEW MAIN HAS BEEN ACCEPTED CONNECT 16" PVC TO 16" BV AHD AND OPEN 16" BV AHD.
- ② BY CONTRACTOR FURNISH AND INSTALL  
STA 3+60.07  
1- 16"-45" ELBOW
- ③ BY CITY FORCES AFTER CONTRACTOR  
STA 3+79.30  
AFTER NEW MAIN HAS BEEN ACCEPTED  
CLOSE EX 16" BV BK, AHD  
CONNECT 2 - 3' 16" PVC TO  
EXISTING BV BK, AHD  
INSTALL 2 - 45" ELBOWS BK, AHD  
AND CONNECT TO THE 45"  
ELBOWS BK, AHD  
OPEN EX. 16" BV BK, AHD.
- ④ BY CONTRACTOR FURNISH AND INSTALL  
STA 3+89.67  
1- 16"-45" ELBOW
- ⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+03.75  
1- 16" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY
- ⑥ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+05.63  
1- 16" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY
- ⑦ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+12.67  
1- 16" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER

CONTRACTOR'S NOTE:  
EX. 16" CIWTR MAIN SHALL BE ABAND'D AFTER NEW MAIN IS IN SERVICE AND ALL SERVICES HAVE BEEN TRANSFERRED.

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

SCALE 1"=40' FEET



**C-8**

SEWER AND WATER GROUP 957  
WEST F STREET  
STATE ST TO 1ST AV

CITY OF SAN DIEGO, CALIFORNIA  
PUBLIC WORKS-ENGINEERING DEPARTMENT  
SHEET 9 OF 28 SHEETS

DATE: 2/13/13

FOR CITY ENGINEER: *Ali Mohammadian*

DATE: 2/13/13

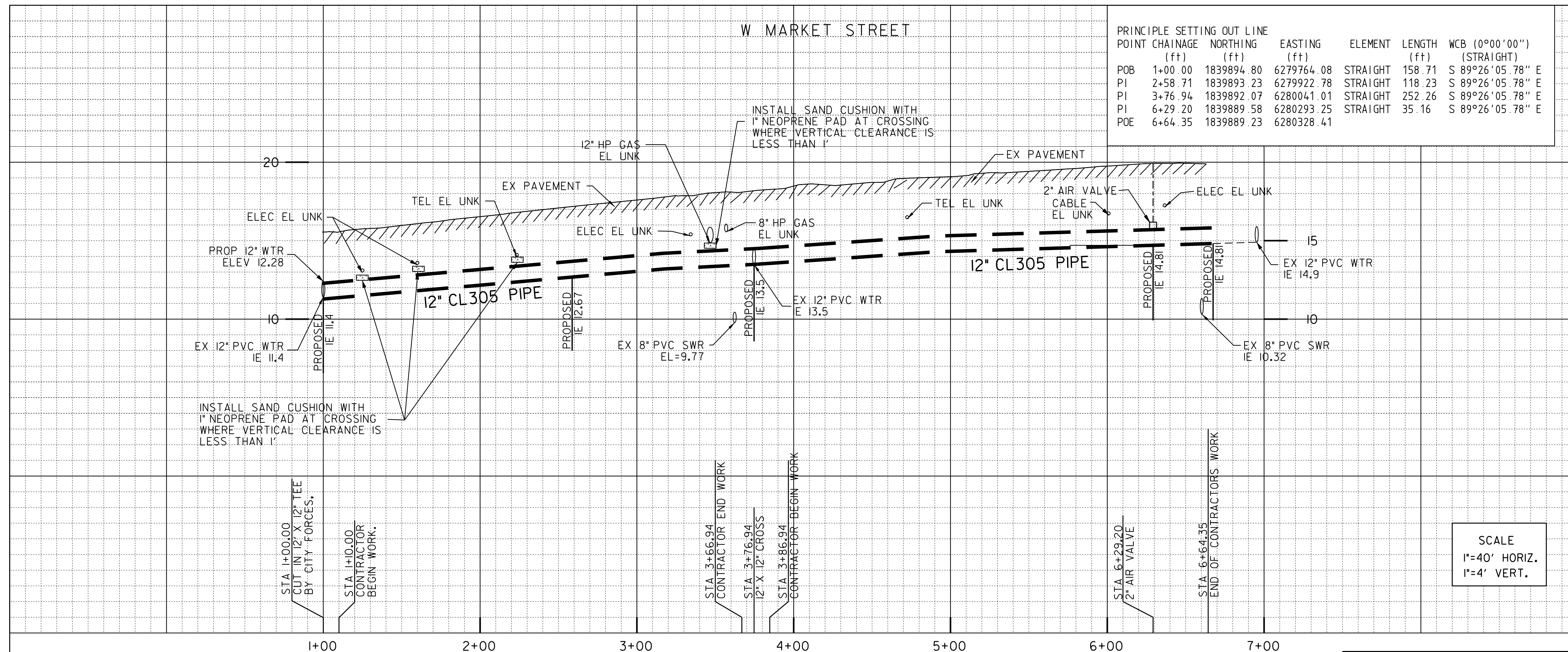
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	AM/SS			

CHIEF ENGINEER: ALI MOHAMMADIAN  
PROJECT ENGINEER: 198-1719  
CCS27 COORDINATOR: 6280407-1838444  
CCS83 COORDINATOR: 36689-9-D

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

WEST F STREET





POINT CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB 1+00.00	1839894.80	6279764.08	STRAIGHT	158.71	S 89°26'05.78" E
PI 2+58.71	1839893.23	6279922.78	STRAIGHT	118.23	S 89°26'05.78" E
PI 3+76.94	1839892.07	6280041.01	STRAIGHT	252.26	S 89°26'05.78" E
PI 6+29.20	1839889.58	6280293.25	STRAIGHT	35.16	S 89°26'05.78" E
POE 6+64.35	1839889.23	6280328.41			

- ③ BY CITY FORCES  
AHD OF CONTRACTOR  
STA 3+76.94  
CUT IN  
1- 12" X 12" CROSS (F)  
4- 12" GV (F, MJ) BK, AHD, LT, RT  
1- 12" X 10" REDUCER 3' RT  
1- 10" PIPE 20' MIN STUBOUT RT  
CLOSE NEW 12" VALVE BK, AHD  
OPEN NEW VALVE LT, RT  
AFTER NEW MAIN HAS BEEN ACCEPTED  
CONNECT TO NEW 12" PIPE BK, AHD  
OPEN VALVES BK, AHD
- ④ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 6+29.20  
1- 2" AIR VALVE
- ⑤ BY CITY FORCES  
AHD OF CONTRACTOR  
STA 6+64.35  
CUT IN  
1- 12" X 12" TEE (F, F, MJ)  
3- 12" GV (F, MJ) BK, LT, RT  
CLOSE NEW 12" VALVES BK  
AFTER NEW MAIN HAS BEEN ACCEPTED  
CONNECT TO NEW 12" PIPE BK  
OPEN VALVES BK
- ⑥ BY CITY FORCES  
AFTER CONTRACTOR  
STA 1+00 @ 13' RT  
CUT IN NEW 12" ELBOW  
PERMANENTLY, PLUG EX 10" CI  
WTR AHD.
- ⑦ BY CITY FORCES  
AFTER CONTRACTOR  
STA 3+76.94 @ 20' RT  
CLOSE NEW VALVE LT  
CUT AND PLUG  
EX 10" PVC 10" RT, AHD, BK  
REMOVE EX CROSS AND VALVES  
CONNECT STUB OUT TO  
EX 10" PVC WTR RT  
OPEN NEW 12" VALVE LT  
PERMANENTLY PLUG EX 10" CI  
WTR BK, AHD.

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

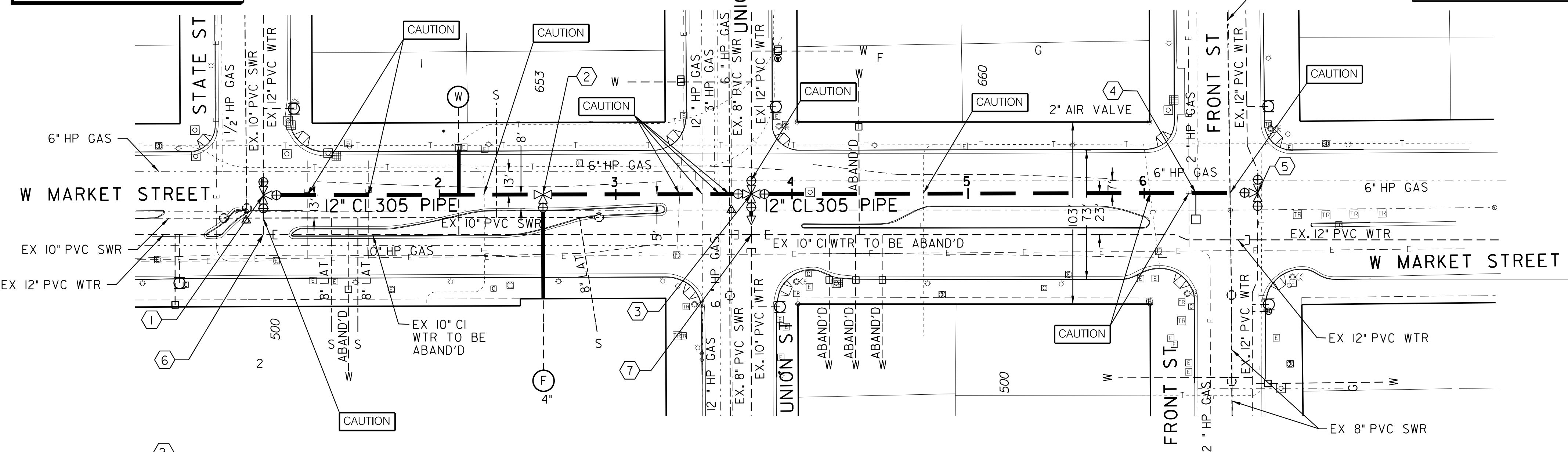
CONTRACTOR'S NOTE:  
EX. 10" CI WTR MAIN SHALL BE  
ABAND'D AFTER NEW MAIN IS  
IN SERVICE AND ALL SERVICES  
HAVE BEEN TRANSFERRED.

CONTRACTOR'S NOTE:  
SEE "DETAIL G" SHEET 25 FOR TYPICAL  
PROPOSED WATER SERVICE LOCATION  
WHEN EX SEWER LATERALS & WATER  
SERVICES ARE IN COMMON TRENCH OR  
CONFLICT.

NOTE:  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK  
REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES.  
SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

- REFERENCE:
- WATER: 24206-8-D, 24206-10-D, 26346-4-D, 26942-3-D
  - SEWER: 26942-3-D, 26346-3-D, 26346-2-D
  - STORM DRAIN: NONE
  - GAS: 1-83, 1-84, 1-117
  - ELECTRIC: 198-1716D
  - CABLE TV: NONE
  - TELEPHONE: CS0503DC, CS0503DD
  - IMPROVEMENTS: NONE
  - 100' SCALE/FIELD BOOK: F22S
  - THOMAS BROS.: 1289-A3
  - HGL: 231
  - SIDEWALK: CCDC-SSM

- RETIREMENTS:
- 10" - CI - 25.40' - 1990
  - 8" FS - PVC - 1
  - 1" SERVICE - 6 - UNK MATERIAL - 1990



- ① BY CITY FORCES  
AHD OF CONTRACTOR  
STA 1+00  
CUT IN:  
1- 12" X 12" TEE (F)  
3- 12" GV (F, MJ) AHD, LT, RT  
CLOSE NEW 12" VALVE AHD  
OPEN 12" VALVE LT, RT  
AFTER NEW MAIN HAS BEEN  
ACCEPTED CONNECT TO  
NEW 12" VALVE AHD AND OPEN.
- ② BY CONTRACTOR  
FURNISH AND INSTALL  
STA 2+58.71  
1- 12" X 4" TEE (MJ, MJ, F)  
1- 4" FS CONNECTION  
& ASSY

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

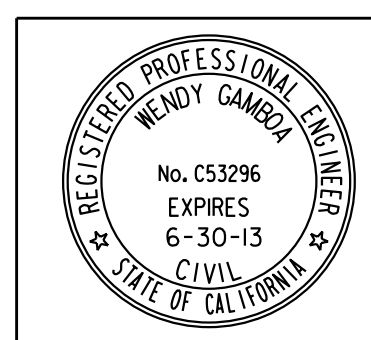
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS  
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+25.19	STA. 6+64.35	539.16

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.

CONTRACTOR'S NOTE:  
EXISTING UTILITY CROSSINGS MAY NOT BE  
REPRESENTATIVE OF ACTUAL LOCATION OF  
CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR  
TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR  
CONSTRUCTION.

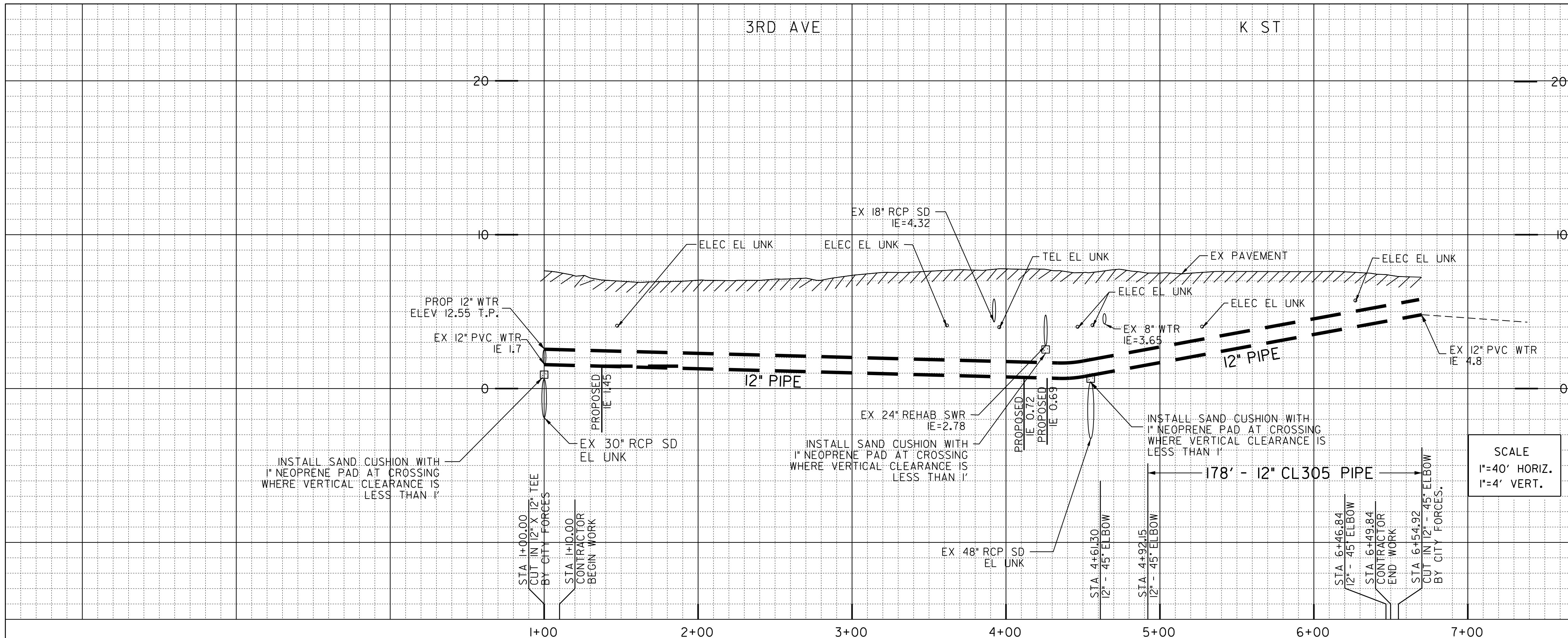
SCALE 1"=40'  
FEET



SEWER AND WATER GROUP 957  
W MARKET STREET  
STATE ST. TO FRONT ST.

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 10 OF 28 SHEETS	WATER WBS: BIII54 SEWER WBS: N/A
FOR CITY ENGINEER: <i>James</i> DATE: 2/13/13	PROJECT MANAGER: JIM HAGGOUY
DESCRIPTION: ORIGINAL	PROJECT ENGINEER: ALI MOHAMMADIAN
BY: AM/SS	198-1719
APPROVED: [Signature]	CCS27 COORDINATE
DATE: [Blank]	6280407-1838444
FILED: [Blank]	CCS83 COORDINATE
CONTRACTOR: [Blank]	36689-10-D
DATE STARTED: [Blank]	
INSPECTOR: [Blank]	DATE COMPLETED: [Blank]

W MARKET ST

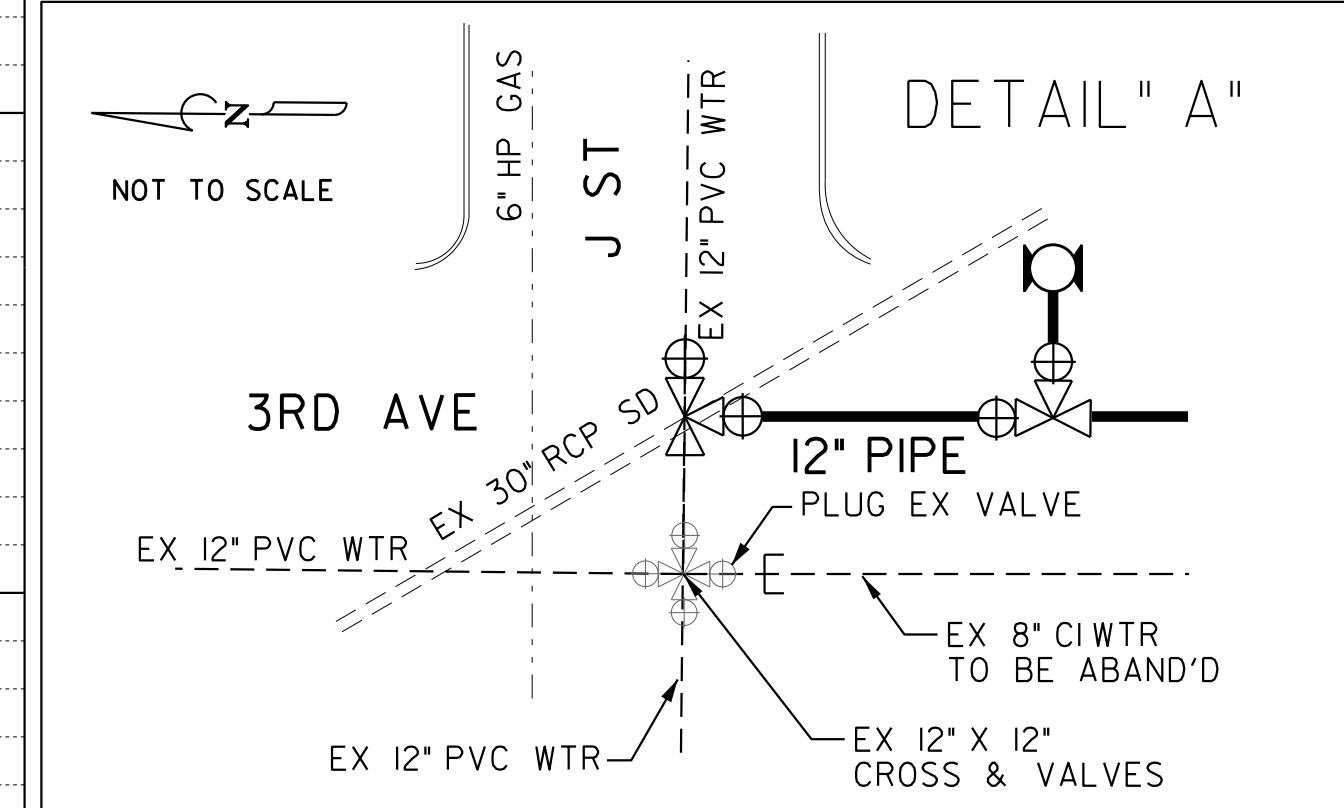


POINT CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB 1+00 00	1839097.03	6281161.52	STRAIGHT	17.97	S 0°06'34.41" W
PI 1+17 97	1839079.06	6281161.48	STRAIGHT	11.94	S 41°54'41.08" E
PI 1+29 91	1839070.17	6281169.46	STRAIGHT	7.55	S 0°02'44.75" W
PI 1+37 46	1839062.63	6281169.45	STRAIGHT	274.28	S 0°06'34.41" W
PI 4+11 73	1838788.35	6281168.93	STRAIGHT	13.38	S 0°06'34.41" W
PI 4+26 72	1838774.97	6281168.90	STRAIGHT	36.18	S 0°06'34.41" W
PI 4+61 30	1838738.79	6281168.83	STRAIGHT	30.86	S 44°53'25.59" E
PI 4+92 15	1838716.93	6281190.61	STRAIGHT	154.69	N 89°49'15.67" E
PI 6+46 84	1838717.41	6281345.29	STRAIGHT	8.08	S 45°00'00.00" E
PI 6+54 92	1838711.70	6281351.01	STRAIGHT	7.50	S 89°26'55.52" E
POE 6+62 42	1838711.62	6281358.51			

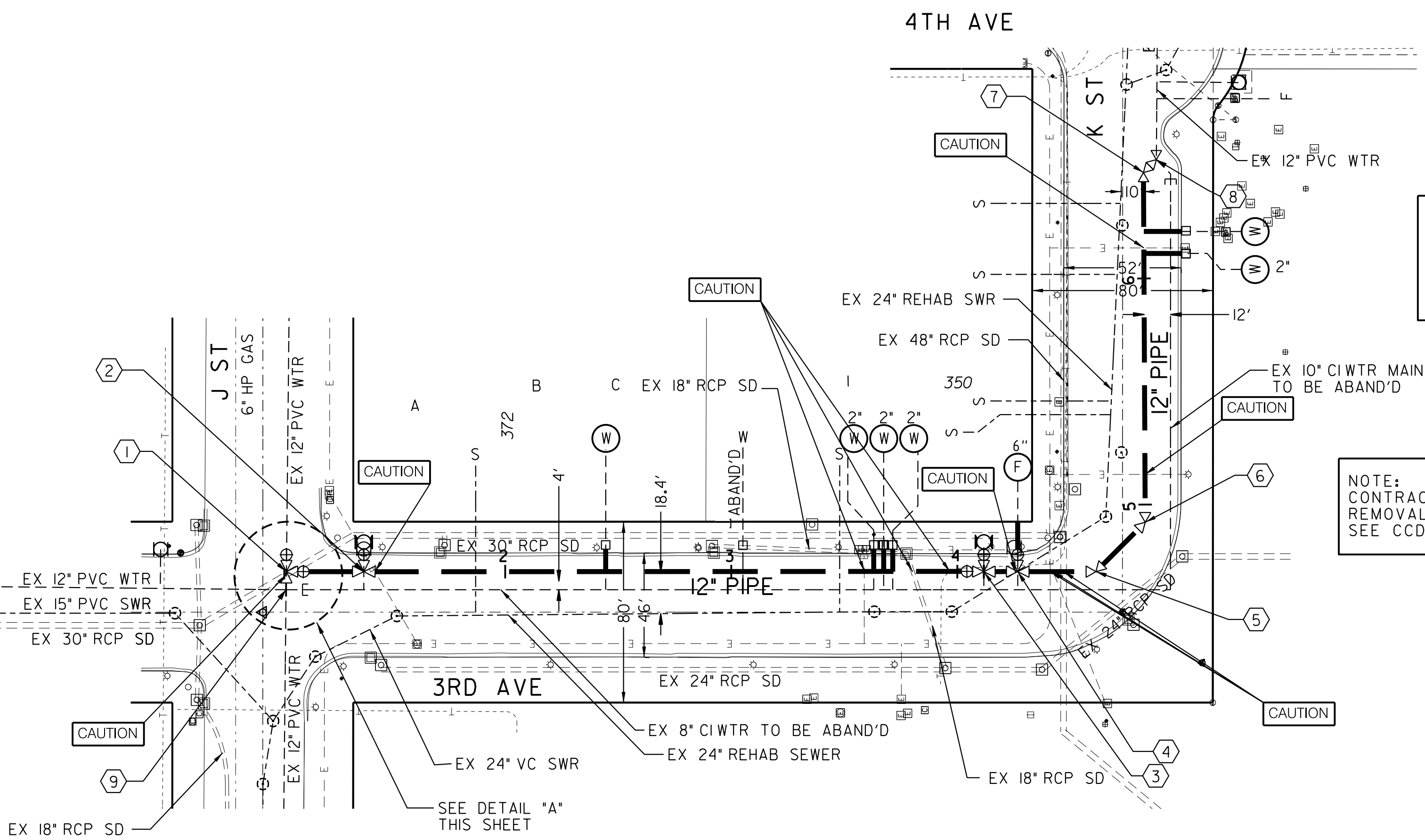
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00	STA. 6+54.92	554.92

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.



- ① BY CITY FORCES AHD OF CONTRACTOR  
STA 1+00.00  
CUT IN:  
1- 12" X 12" TEE (F, F, MJ)  
2- 12" GV (F, MJ) AHD, LT  
CLOSE NEW 12" GV AHD  
OPEN 12" GV LT, AFTER  
NEW MAIN HAS BEEN  
ACCEPTED CONNECT TO  
NEW 12" GV AHD, OPEN  
12" GV AHD.
- ② BY CONTRACTOR FURNISH AND INSTALL  
STA 1+37.46  
1- 12" X 6" TEE (F, F, MJ)  
1- 6" FH ASSY AND MARKER
- ③ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+11.73  
1- 12" X 6" TEE (F, F, MJ)  
1- 6" FH ASSY AND MARKER  
1- 12" GV (F, MJ) BK
- ④ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+26.72  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY
- ⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+61.30  
1- 12"-45" ELBOW
- ⑥ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+92.15  
1- 12"-45" ELBOW
- ⑦ BY CONTRACTOR FURNISH AND INSTALL  
STA 6+46.84  
1- 12"-45" ELBOW  
1- 12" PIPE 3' MIN STUB OUT AHD
- ⑧ BY CITY FORCES AFTER CONTRACTOR  
STA 6+54.92  
CUT IN:  
1- 12"-45" ELBOW,  
AFTER NEW MAIN HAS  
BEEN ACCEPTED CONNECT  
TO EX 12" PVC PIPE BK
- ⑨ BY CITY FORCES AFTER CONTRACTOR  
STA 1+00 @ 4' RT  
CLOSE EX 12" GV AHD  
PERMANENTLY PLUG  
EX 8" CIWTR AHD



CONTRACTOR'S NOTE:  
EX. 8" CIWTR MAIN AND 10" CIWTR MAIN SHALL BE ABAND'D AFTER NEW MAIN IS IN SERVICE AND ALL SERVICES HAVE BEEN TRANSFERRED.

CONTRACTOR'S NOTE:  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

NOTE:  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

REFERENCE:

WATER:	24206-3-D, 29323-2-D, 44 (50' SCALE)
SEWER:	29839-32/33-D, 29323-2-D
STORM DRAIN:	11242-4-D, 24384-4-D, 2343-D
GAS:	1-88, 1-90, 198-1719A
ELECTRIC:	NONE
CABLE TV:	NONE
TELEPHONE:	NONE
IMPROVEMENTS:	NONE
100' SCALE/FIELD BOOK:	G225-D
THOMAS BROS.:	1289A4
HGL:	231
SIDEWALK:	CCDC-SSM

RETIREMENTS:

8" - CI - 391' - 1912
10" - CI - 192' - 1910
6" FS - 1- PVC - 2002
FH (3-PORT) - 2
1" SERVICE - 1- COPPER - 2000
2" SERVICE - 1- COPPER - 2000
2" SERVICE - 4 - PVC - 2002
4" SERVICE - 1- PVC - 2002

SCALE 1"=40' FEET

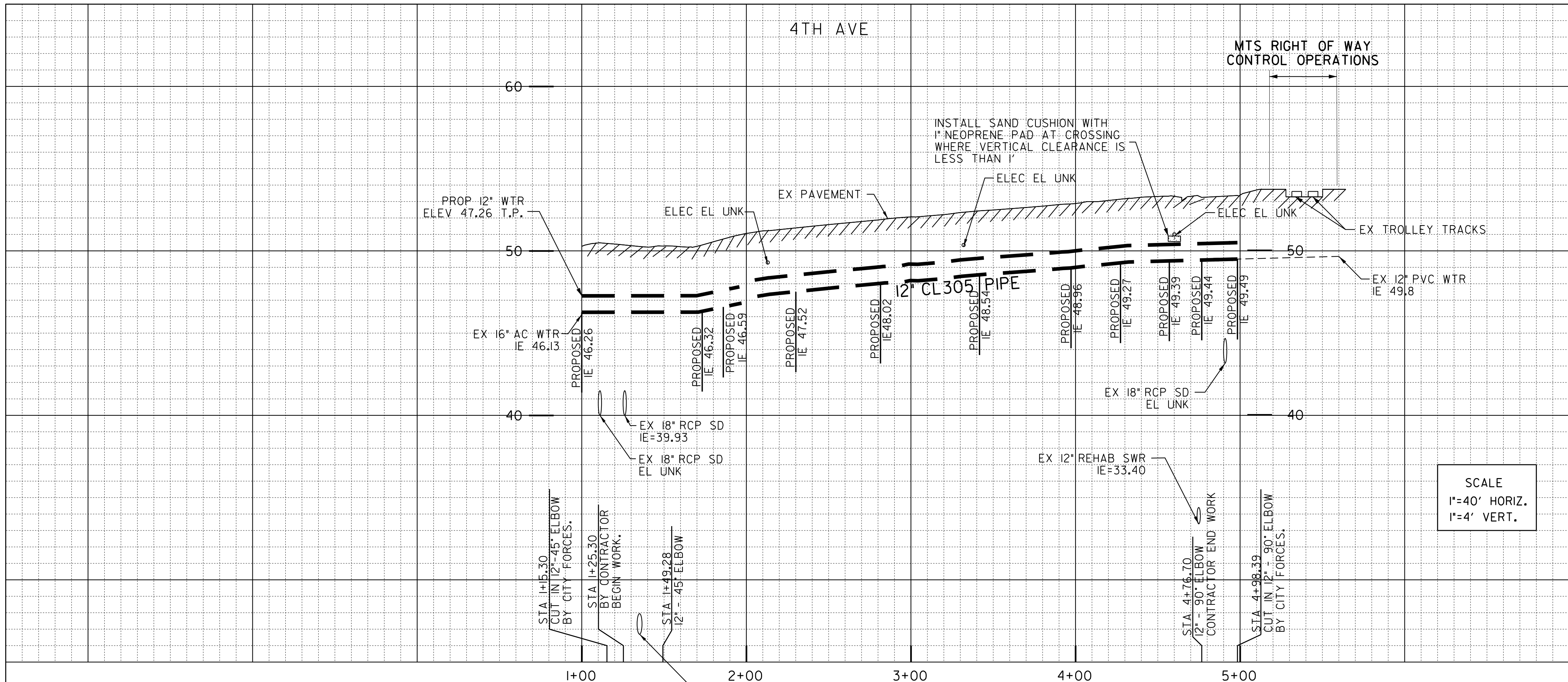


C-10

SEWER AND WATER GROUP 957  
3RD AVE AND K ST  
J ST TO 4TH AVE

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET II OF 28 SHEETS		WATER WBS: B11154 SEWER WBS: N/A
FOR CITY ENGINEER: <i>W. Saml</i>	DATE: 2/13/13	PROJECT MANAGER: JIM HAGHGOLY
DESCRIPTION: ORIGINAL	BY: AM/SS	DATE: FILMED:
CHECKED BY: ALI MOHAMMADIAN PROJECT ENGINEER		198-1719 CCS27 COORDINATE
CONTRACTOR: _____		6280407-1838444 CCS83 COORDINATE
INSPECTOR: _____	DATE STARTED: _____	36689-11-D
	DATE COMPLETED: _____	





PRINCIPLE SETTING OUT LINE

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB	1+00.00	1841394.46	6281450.01	STRAIGHT	15.30	N 0°04'24.74" E
PI	1+15.30	1841409.76	6281450.03	STRAIGHT	33.98	N 44°51'00.10" W
PI	1+49.28	1841433.85	6281426.06	STRAIGHT	23.89	N 0°03'41.32" E
PI	1+73.18	1841457.75	6281426.09	STRAIGHT	56.89	N 0°03'41.32" E
PI	2+30.07	1841514.64	6281426.15	STRAIGHT	51.39	N 0°03'41.32" E
PI	2+81.46	1841566.03	6281426.21	STRAIGHT	60.08	N 0°40'14.63" E
PI	3+41.55	1841626.11	6281426.91	STRAIGHT	55.72	N 0°46'49.65" E
PI	3+97.27	1841681.83	6281427.67	STRAIGHT	30.07	N 0°46'49.65" E
PI	4+27.34	1841711.90	6281428.08	STRAIGHT	29.66	N 0°46'49.65" E
PI	4+57.00	1841741.55	6281428.48	STRAIGHT	19.71	N 0°46'49.65" E
PI	4+76.70	1841761.26	6281428.75	STRAIGHT	21.69	S 89°54'52.71" E
POE	4+98.39	1841761.22	6281450.44			

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

NOTE:  
 \*SIDEWALK CONSTRUCTION ON U.S. GRANT HOTEL SHALL MATCH THE U.S. GRANT HOTEL IN KIND, STYLE AND IN COLOR.  
 \*SIDEWALK CONSTRUCTION ON EAST OF 4TH AVE SHALL BE PER CCDC-SSM "BROADWAY PAVING".  
 \*DETAILS INCLUDED IN SPECIFICATIONS.

CONTRACTOR'S NOTE:  
 EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW), CONTRACTOR TO POT HOLE & VERIFY EXISTING UTILITIES PRIOR CONSTRUCTION.

MTS NOTE:  
 WARNING HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM (OCS) NOT SHOWN

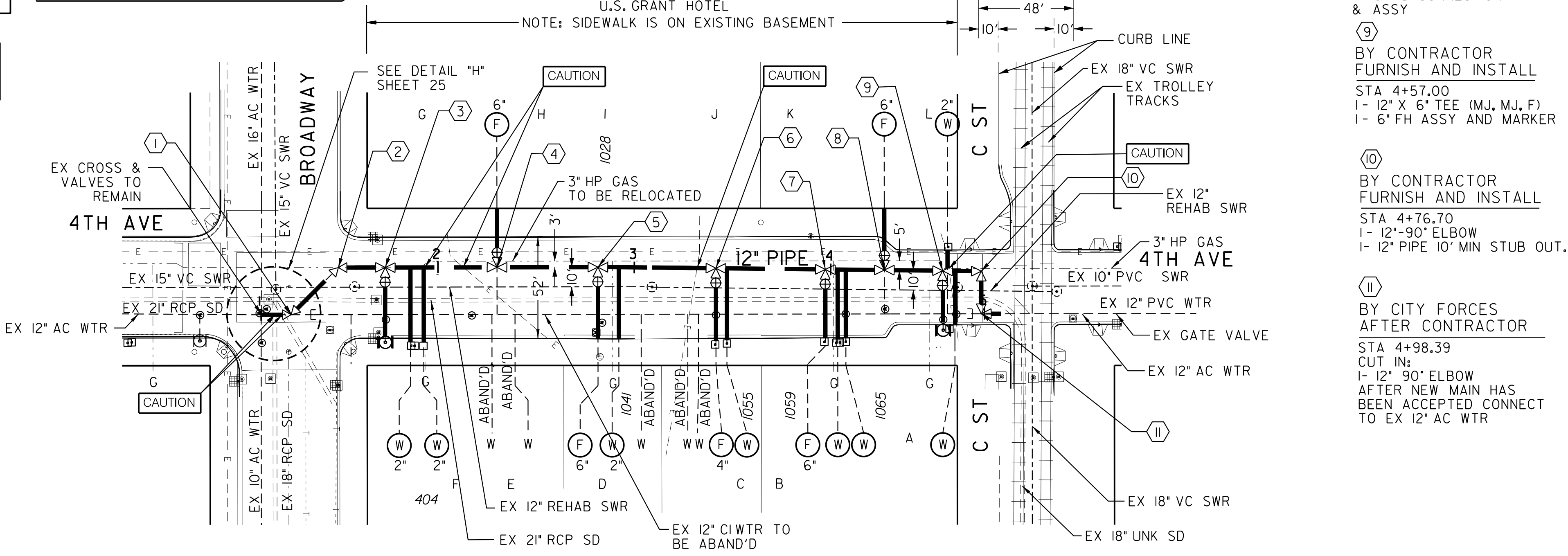
CONTRACTOR'S NOTE:  
 USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

① BY CITY FORCES AFTER CONTRACTOR  
 STA 1+15.30  
 CUT IN:  
 1- 12" 45° ELBOW  
 AFTER NEW MAIN HAS BEEN ACCEPTED CONNECT TO EXISTING 12" VALVE BK.

② BY CONTRACTOR FURNISH AND INSTALL  
 STA 1+49.28  
 1- 12" 45° ELBOW  
 1- 12" PIPE 20' MIN STUB OUT BK.

③ BY CONTRACTOR FURNISH AND INSTALL  
 STA 1+73.18  
 1- 12" X 6" TEE (MJ, MJ, F)  
 1- 6" FH ASSY AND MARKER

CONTRACTOR'S NOTE:  
 EX. EX 12" CIWTR MAIN SHALL BE ABAND'D AFTER NEW MAIN IS IN SERVICE AND ALL SERVICES HAVE BEEN TRANSFERRED



④ BY CONTRACTOR FURNISH AND INSTALL  
 STA 2+30.07  
 1- 12" X 6" TEE (MJ, MJ, F)  
 1- 6" FS CONNECTION & ASSY

⑤ BY CONTRACTOR FURNISH AND INSTALL  
 STA 2+81.46  
 1- 12" X 6" TEE (MJ, MJ, F)  
 1- 6" FS CONNECTION & ASSY

⑥ BY CONTRACTOR FURNISH AND INSTALL  
 STA 3+41.55  
 1- 12" X 4" TEE (MJ, MJ, F)  
 1- 4" FS CONNECTION & ASSY

⑦ BY CONTRACTOR FURNISH AND INSTALL  
 STA 3+97.27  
 1- 12" X 6" TEE (MJ, MJ, F)  
 1- 6" FS CONNECTION & ASSY

⑧ BY CONTRACTOR FURNISH AND INSTALL  
 STA 4+27.34  
 1- 12" X 6" TEE (MJ, MJ, F)  
 1- 6" FS CONNECTION & ASSY

⑨ BY CONTRACTOR FURNISH AND INSTALL  
 STA 4+57.00  
 1- 12" X 6" TEE (MJ, MJ, F)  
 1- 6" FH ASSY AND MARKER

⑩ BY CONTRACTOR FURNISH AND INSTALL  
 STA 4+76.70  
 1- 12" 90° ELBOW  
 1- 12" PIPE 10' MIN STUB OUT.

⑪ BY CITY FORCES AFTER CONTRACTOR  
 STA 4+98.39  
 CUT IN:  
 1- 12" 90° ELBOW  
 AFTER NEW MAIN HAS BEEN ACCEPTED CONNECT TO EX 12" AC WTR

REFERENCE:

WATER	31303-2-D, 31303-8-D, 18217-9-D, 18576-67-D, 58 (50' SCALE)
SEWER:	32291-2-D, 20540-2-D, 13929-3-D
STORM DRAIN:	3133-D
GAS:	1-208
ELECTRIC:	200-1719C
CABLE TV:	NONE
TELEPHONE:	NONE
IMPROVEMENTS:	INONE
100' SCALE/FIELD BOOK:	G225-A
THOMAS BROS.:	1289-A3
HGL:	231
SIDEWALK:	CCDC-SSM

RETIREMENTS:

12" - CI - 376,38' - 1910
FH (3-PORT) - 2
4" FS - CI - 1
6" FS - CI - 5
1" SERVICE - 10 - UNK MATERIAL - 1910
2" SERVICE - 2 - UNK MATERIAL - 1910

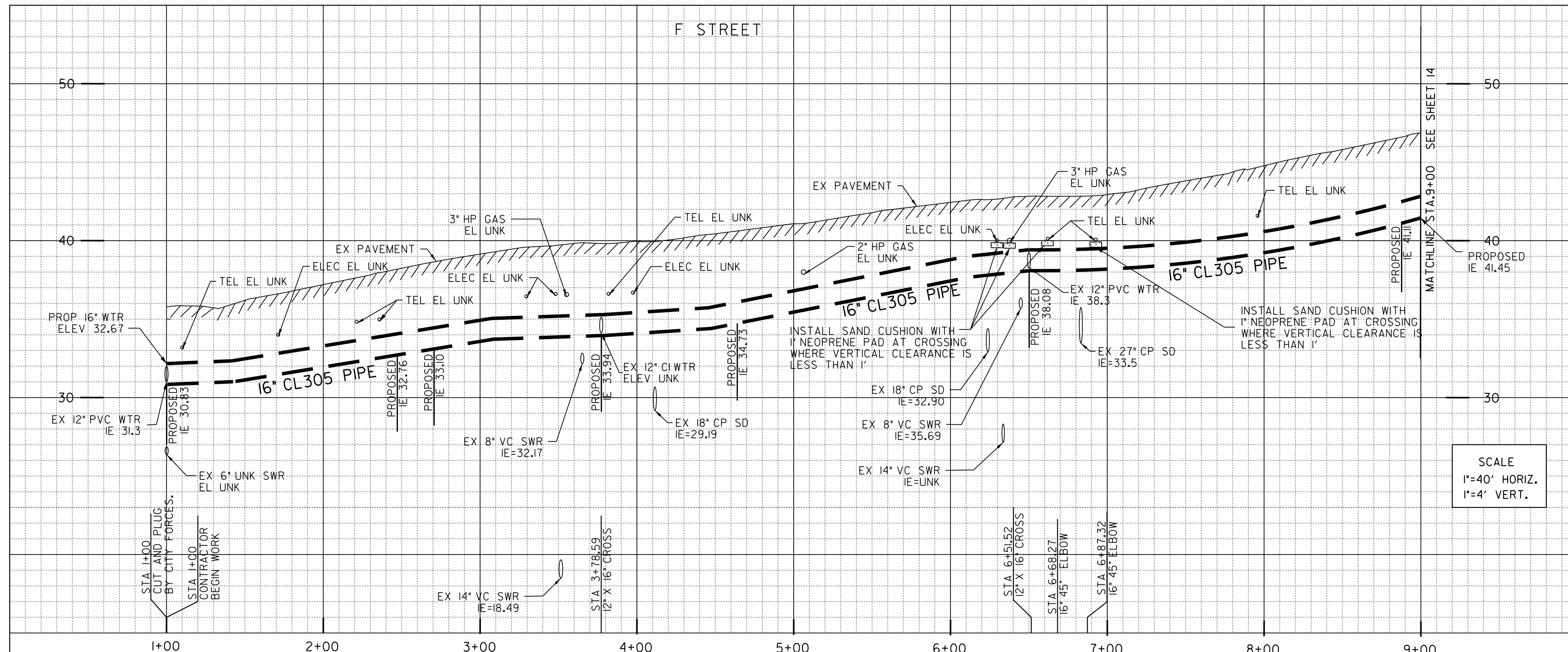
SCALE 1"=40' FEET



C-11

SEWER AND WATER GROUP 957  
 4TH AVE  
 BROADWAY TO C ST

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 12 OF 28 SHEETS		WATER WBS: B1154 SEWER WBS: N/A
FOR CITY ENGINEER: <i>[Signature]</i>	DATE: 2/13/13	PROJECT MANAGER: JIM HAGGOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	APPROVED: ALI MOHAMMADIAN PROJECT ENGINEER
DATE: [ ]	DATE: [ ]	198-1719
FILED: [ ]	FILED: [ ]	CCS27 COORDINATE
CONTRACTOR: [ ]		6280407-1838444 CCS83 COORDINATE
INSPECTOR: [ ]		36689-12-D
DATE STARTED: [ ]	DATE COMPLETED: [ ]	



- ⑧ BY CONTRACTOR FURNISH AND INSTALL  
STA 6+87.32  
1- 16"-45" ELBOW
- ⑨ BY CONTRACTOR FURNISH AND INSTALL  
STA 8+87.72  
1- 16" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY 3 PORT
- ⑩ BY CITY FORCES AFTER CONTRACTOR  
STA 1+00 @ 30' RT  
CLOSE NEW 16" BV LT  
CUT AND PLUG 16" AC WTR RT  
REMOVE EX CROSS AND VALVES  
CONNECT STUBOUT TO EX 16" AC WTR RT  
OPEN NEW 16" BV LT  
COORDINATE WITH CONTRACTOR TO FILL AND ABANDON 16" CIWTR PERMANENTLY, PLUG EX 16" CIWTR BK, AHD
- ⑪ BY CITY FORCES AFTER CONTRACTOR  
STA 3+78.59 @ 30' RT  
CLOSE NEW 12" GV LT  
CUT AND PLUG 12" CIWTR RT  
REMOVE EX CROSS AND VALVES  
CONNECT STUBOUT TO EX 12" CIWTR RT  
OPEN NEW 12" GV LT  
COORDINATE WITH CONTRACTOR TO FILL AND ABANDON 16" CIWTR PERMANENTLY, PLUG EX 16" CIWTR BK, AHD
- ⑫ BY CITY FORCES AFTER CONTRACTOR  
STA 6+51.52 @ 30' RT  
CLOSE NEW 12" GV LT  
CUT AND PLUG 12" PVC WTR RT  
REMOVE EX CROSS AND VALVES  
CONNECT STUBOUT TO EX 12" PVC WTR RT  
OPEN NEW 12" GV LT  
COORDINATE WITH CONTRACTOR TO FILL AND ABANDON 16" CIWTR PERMANENTLY, PLUG EX 16" CIWTR BK, AHD

PRINCIPLE SETTING OUT LINE

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB	1+00.00	1840661.56	6281448.43	STRAIGHT	148.52	S 89°51'15.65" E
P1	2+48.52	1840661.19	6281596.95	STRAIGHT	23.49	S 89°51'15.65" E
P1	2+72.01	1840661.12	6281620.44	STRAIGHT	106.57	S 89°51'15.65" E
P1	3+78.59	1840660.86	6281727.01	STRAIGHT	86.79	N 89°59'49.17" W
P1	4+65.38	1840660.86	6281813.80	STRAIGHT	186.14	S 89°51'15.65" E
P1	6+51.52	1840660.16	6281999.94	STRAIGHT	16.76	N 44°50'52.35" E
P1	6+68.27	1840660.16	6282016.70	STRAIGHT	19.05	S 89°54'12.16" E
P1	6+87.32	1840646.66	6282030.13	STRAIGHT	197.38	S 89°54'12.16" E
P1	8+87.72	1840646.26	6282227.52	STRAIGHT	57.56	S 89°54'12.16" E

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00	STA. 9+00	800

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.

CONTRACTOR'S NOTE: EX. 16" CIWTR MAIN AND WTR SERVICES FROM STA 1+00 TO STA 9+00 SHALL REMAIN IN SERVICE DURING CONSTRUCTION.

CONTRACTOR'S NOTE: EX. 16" CIWTR MAIN SHALL BE ABAND'D AFTER NEW MAIN IS IN SERVICE AND ALL SERVICES HAVE BEEN TRANSFERED.

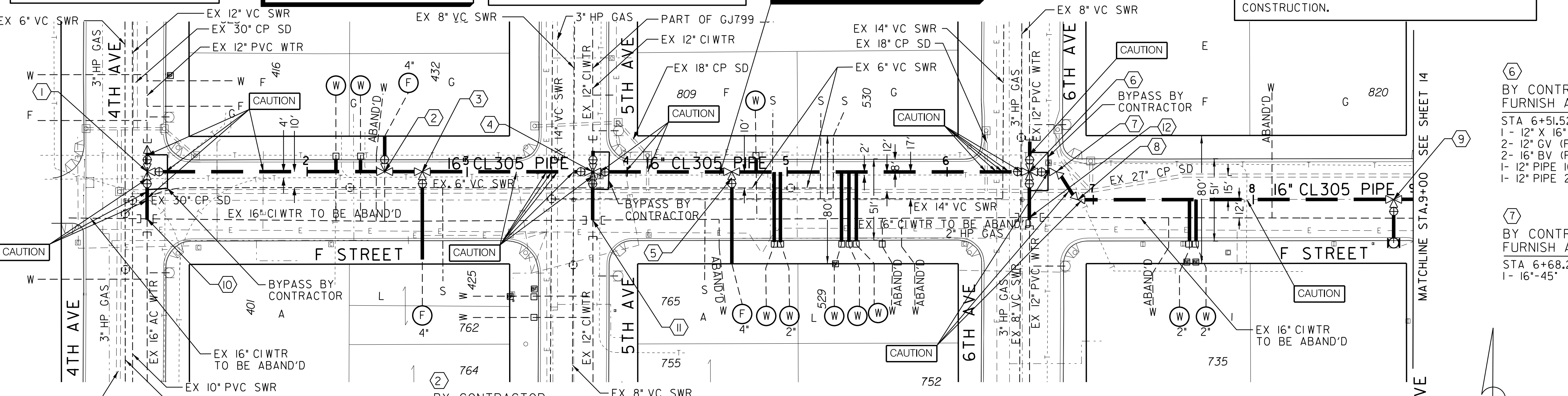
CONTRACTOR'S NOTE: SEE 'DETAIL G' SHEET 25 FOR TYPICAL PROPOSED WATER SERVICE LOCATION WHEN EX SEWER LATERALS & WATER SERVICES ARE IN COMMON TRENCH OR CONFLICT.

CONTRACTOR TO COORDINATE WITH TELEPHONE COMPANY FOR RELOCATION OF EXISTING TELEPHONE LINE.

PROP 8" AND 15" PIPE SWR INCLUDED IN THIS CONTRACT SEE SHEET 4

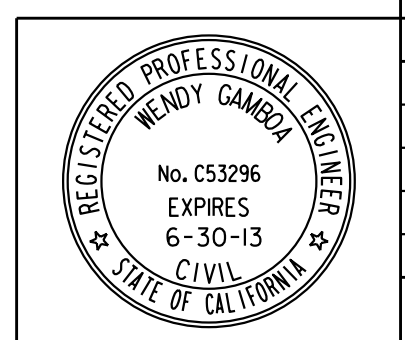
CONTRACTOR'S NOTE: EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

NOTE: CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.



- REFERENCE:
- WATER: 18322-4-D, 21735-9-D  
 STORM DRAIN: 8783-3-B, 8783-47-B,  
 GAS: 21735-9-D, 20227-9-D  
 ELECTRIC: 2345-D, 8783-47-B, 57 (50' SCALE)  
 1-14, 1-162  
 200-1719A, 2001719B  
 NONE  
 CABLE TV: CS0303AD, CS0303BC, CS0303BD  
 TELEPHONE: 21375-9-D  
 IMPROVEMENTS: G22S-A  
 100' SCALE/FIELD BOOK: 1288-A3, 1289-B3  
 THOMAS BROS.: 231  
 HGL: CCDC-SSM  
 SIDEWALK:
- RETIREMENTS:
- 16" - CI - 800' - 1910  
 4" FS - CI - 3- 1910  
 1" SERVICE - 10 - UNK MATERIAL - 1910  
 2" SERVICE - 4 - UNK MATERIAL - 1910  
 4" SERVICE - 1 - UNK MATERIAL - 1910

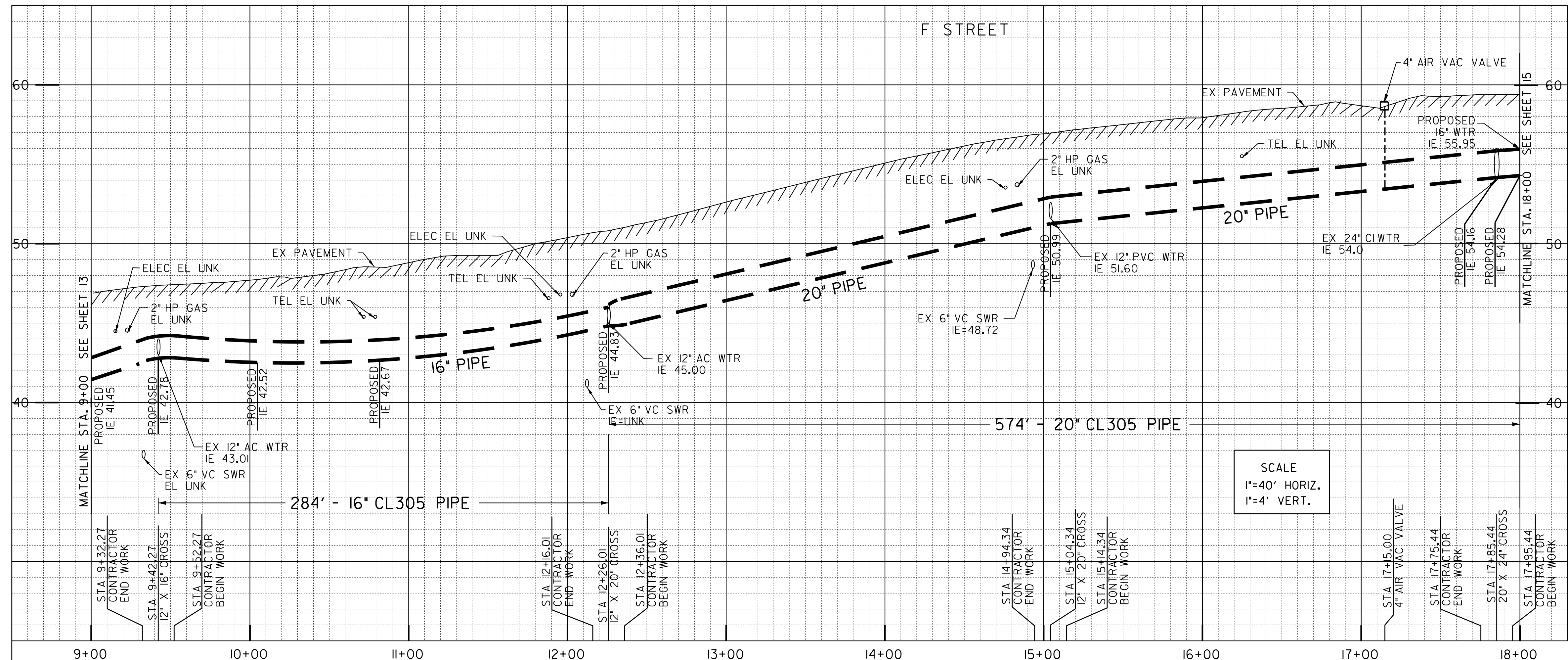
- ① BY CITY FORCES AHD OF CONTRACTOR  
STA 1+00  
CUT AND PLUG:  
EX 12" PVC WTR 20' LT  
EX 16" AC WTR 20' RT  
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.
- ① BY CONTRACTOR FURNISH AND INSTALL  
STA 1+00  
1- 16" X 16" TEE (F)  
3- 16" BV (F, MJ) LT, RT, AHD  
1- 12" X 16" REDUCER 3' LT  
1- 16" PIPE 10' MIN STUB OUT LT  
1- 16" PIPE 10' MIN STUB OUT RT.
- ③ BY CONTRACTOR FURNISH AND INSTALL  
STA 2+72.01  
1- 16" X 4" TEE (MJ, MJ, F)  
1- 4" FS CONNECTION & ASSY
- ④ BY CITY FORCES AHD OF CONTRACTOR  
STA 3+78.59  
CUT AND PLUG:  
EX 12" CIWTR 20' LT,  
EX 12" CIWTR 20' RT  
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.
- ④ BY CONTRACTOR FURNISH AND INSTALL  
STA 3+78.59  
1- 12" X 16" CROSS (F)  
2- 12" GV (F, MJ) LT, RT  
2- 16" BV (F, MJ) BK, AHD  
1- 12" PIPE 10' MIN STUB OUT LT  
1- 12" PIPE 10' MIN STUB OUT RT
- ⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+65.38  
1- 16" X 4" TEE (MJ, MJ, F)  
1- 4" FS CONNECTION & ASSY
- ⑥ BY CITY FORCES AHD OF CONTRACTOR  
STA 6+51.52  
CUT AND PLUG:  
EX 12" PVC WTR 10' LT  
EX 12" PVC WTR 10' RT  
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.



SEWER AND WATER GROUP 957  
F STREET  
4TH AVE TO 7TH AVE

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 13 OF 28 SHEETS	WATER WBS: B1154 SEWER WBS: N/A
FOR CITY ENGINEER: <i>[Signature]</i> DATE: 2/13/13	PROJECT MANAGER: JIM HAGHGOUY
DESCRIPTION: ORIGINAL	CHECKED BY: ALI MOHAMMADIAN
BY: AM/SS	PROJECT ENGINEER: 198-1719
APPROVED: [ ]	COORDINATOR: CC527
DATE: [ ]	PROJECT NUMBER: 6280407-1838444
FILMED: [ ]	COORDINATOR: CC583
CONTRACTOR: _____ DATE STARTED: _____	PROJECT NUMBER: 36689-13-D
INSPECTOR: _____ DATE COMPLETED: _____	



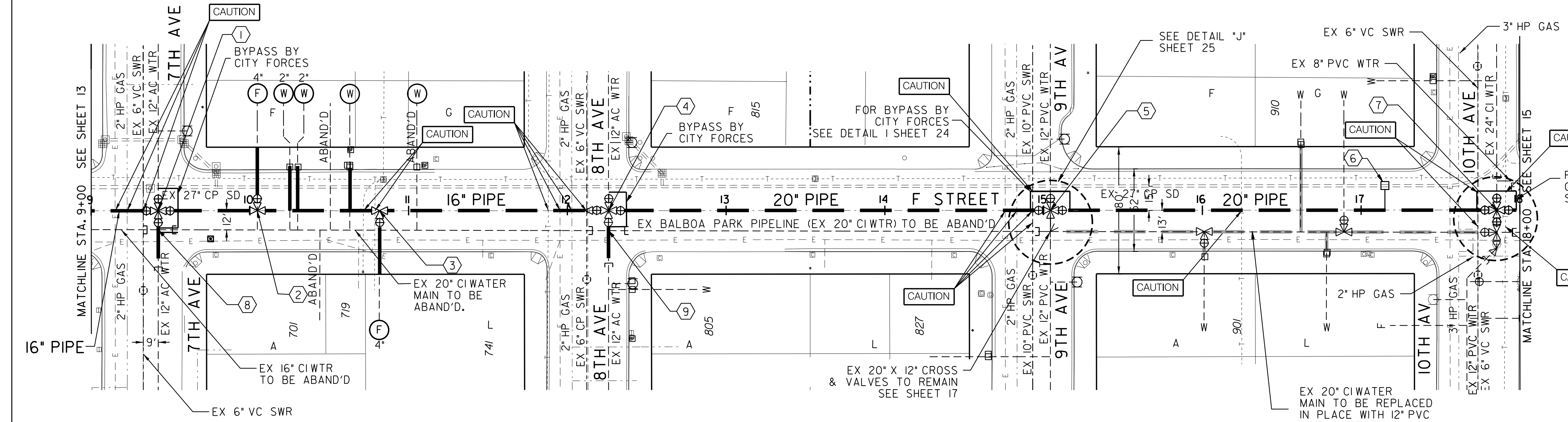


POINT CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
PI 9+42.27	1840646.15	6282285.08	STRAIGHT	62.44	S 89°58'35.61" E
PI 10+04.70	1840646.13	6282347.51	STRAIGHT	77.01	S 89°50'58.05" E
PI 10+81.71	1840645.89	6282424.52	STRAIGHT	144.30	S 89°51'09.69" E
PI 12+26.01	1840645.52	6282568.82	STRAIGHT	278.33	S 89°51'09.69" E
PI 15+04.34	1840644.80	6282847.15	STRAIGHT	210.66	S 89°51'09.69" E
PI 17+15.00	1840644.26	6283057.81	STRAIGHT	70.44	S 89°52'25.80" E
POE 17+85.44	1840644.10	6283128.25			

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00	STA. 18+00	1700.00

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.

- (7) BY CITY FORCES AHD OF CONTRACTOR  
 STA 17+85.44  
 CUT IN:  
 1- 24" X 20" CROSS (F)  
 2- 24" BV (F, MJ) LT, RT  
 2- 20" BV (F, MJ) BK, AHD  
 OPEN BV LT, RT  
 CLOSE BV BK AND AHD,  
 AFTER NEW MAIN HAS BEEN ACCEPTED, CONNECT TO 20" PIPE AND OPEN 20" VALVE BK, AHD.
- (8) BY CITY FORCES AHD OF CONTRACTOR  
 STA 1+00 @ 10' RT  
 CLOSE NEW 12" VALVE LT  
 CUT AND PLUG  
 EX 12" AC WTR RT  
 REMOVE EX 20" X 12" CROSS  
 CONNECT STUBOUT TO EX 12" AC WTR RT  
 OPEN NEW 12" GV LT  
 COORDINATE WITH CONTRACTOR TO FILL AND ABANDON EX 20" CIWTR PERMANENTLY, PLUG EX 20" CIWTR AHD, BK
- (9) BY CITY FORCES AHD OF CONTRACTOR  
 STA 12+26.01 @ 13' RT  
 CLOSE NEW 12" VALVE LT  
 CUT AND PLUG  
 EX 12" AC WTR RT  
 REMOVE EX 20" X 12" CROSS  
 CONNECT STUBOUT TO EX 12" AC WTR RT  
 OPEN NEW 12" GV LT  
 COORDINATE WITH CONTRACTOR TO FILL AND ABANDON EX 20" CIWTR PERMANENTLY, PLUG EX 20" CIWTR AHD, BK



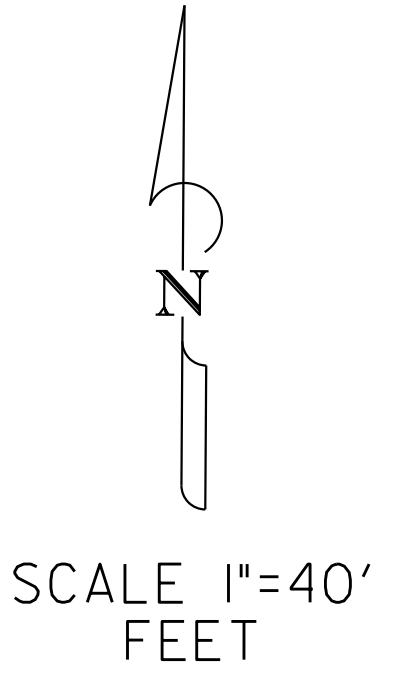
- REFERENCE:**
- WATER: 18544-3-D, 69 (50 SCALE)  
30406-3-D
  - SEWER: 69 (50 SCALE), 75 (50 SCALE)
  - STORM DRAIN: 2344-D
  - GAS: 1-139, 1-141
  - ELECTRIC: 200-1719B
  - CABLE TV: NONE
  - TELEPHONE: NONE
  - IMPROVEMENTS: NONE
  - 100' SCALE/FIELD BOOK: G22S-A
  - THOMAS BROS.: 1289-B3
  - HGL: 231
  - SIDEWALK: CCDC-SSM
- RETIREMENTS:**
- 20" - CI - 798.13' - 1911
  - 4" FS - 3 - 1911
  - 1" SERVICE - 2 - UNK MATERIAL - 1911
  - 2" SERVICE - 2 - UNK MATERIAL - 1911

**NOTE:**  
 CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

**CONTRACTOR'S NOTE:**  
 EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

**CONTRACTOR'S NOTE:**  
 EX. 16" CIWTR MAIN & EX 20" CIWTR MAIN SHALL BE ABAND'D AFTER NEW MAIN IS IN SERVICE AND ALL SERVICES HAVE BEEN TRANSFERRED.

- (1) BY CITY FORCES AHD OF CONTRACTOR  
 STA 9+42.27  
 CUT IN:  
 1- 16" X 12" CROSS (F)  
 2- 12" GV (F, MJ) LT, RT  
 2- 16" BV (F, MJ) BK, AHD  
 1- 12" PIPE MIN 10' STUB OUT RT  
 OPEN GV LT, RT  
 CLOSE VALVE AHD, BK  
 AFTER NEW MAIN HAS BEEN ACCEPTED, CONNECT TO 16" BV AND OPEN VALVE BK, AHD.
- (2) BY CONTRACTOR FURNISH AND INSTALL  
 STA 10+4.70  
 1- 16" X 4" TEE (MJ, MJ, F) & ASSY
- (3) BY CONTRACTOR FURNISH AND INSTALL  
 STA 10+81.71  
 1- 16" X 4" TEE (MJ, MJ, F) & ASSY
- (4) BY CITY FORCES AHD OF CONTRACTOR  
 STA 12+26.01  
 CUT IN:  
 1- 20" X 12" CROSS (F)  
 2- 20" BV (F, MJ) AHD BK  
 2- 12" GV (F, MJ) LT, RT  
 1- 16" X 20" REDUCER 3" BK  
 1- 12" PIPE MIN 10' STUB OUT RT  
 OPEN GV LT, RT  
 CLOSE BV BK, AHD  
 AFTER NEW MAIN HAS BEEN ACCEPTED, CONNECT TO 20" BV AHD AND 16" REDUCER BK. OPEN VALVES BK, AHD.
- (5) BY CITY FORCES AHD OF CONTRACTOR  
 STA 15+04.34  
 CUT IN:  
 1- 20" X 12" CROSS (F, F, F, MJ)  
 2- 20" BV (F, MJ) AHD, BK  
 1- 12" GV (F, MJ) LT  
 CLOSE BV BK, AHD, AFTER NEW MAIN HAS BEEN ACCEPTED, CONNECT TO 20" BV AND OPEN VALVE BK, AHD.
- (6) BY CONTRACTOR FURNISH AND INSTALL  
 STA 17+15.00  
 1- 4" AIR VALVE

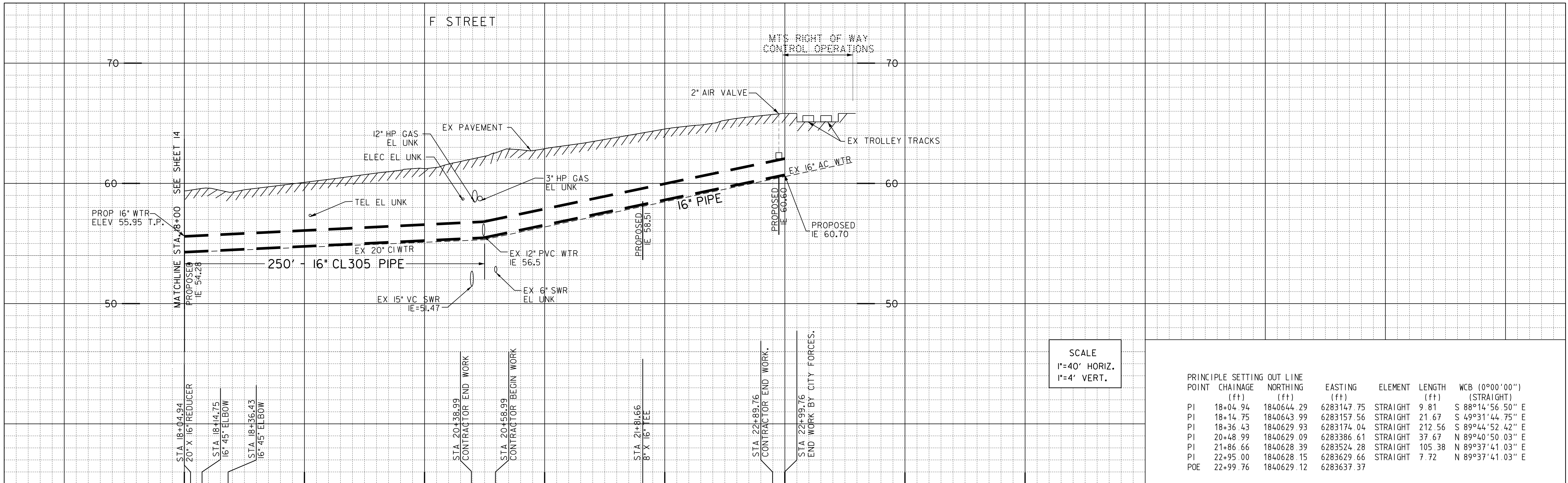


**SEWER AND WATER GROUP 957**  
**F STREET**  
 7TH AVE TO 10TH AVE

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 14 OF 28 SHEETS		WATER WBS: BIII54 SEWER WBS: N/A
DATE: 2/13/13		PROJECT MANAGER: JIM HAGGOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	PROJECT ENGINEER: ALI MOHAMMADIAN
APPROVED: [Signature]	DATE: [Blank]	COORDINATOR: 198-1719
INSPECTOR: [Blank]	DATE STARTED: [Blank]	DATE COMPLETED: [Blank]
CONTRACTOR: [Blank]		PROJECT NUMBER: 6280407-1838444
INSPECTOR: [Blank]		COORDINATOR: CC88
DATE STARTED: [Blank]		PROJECT NUMBER: 36689-14-D
DATE COMPLETED: [Blank]		

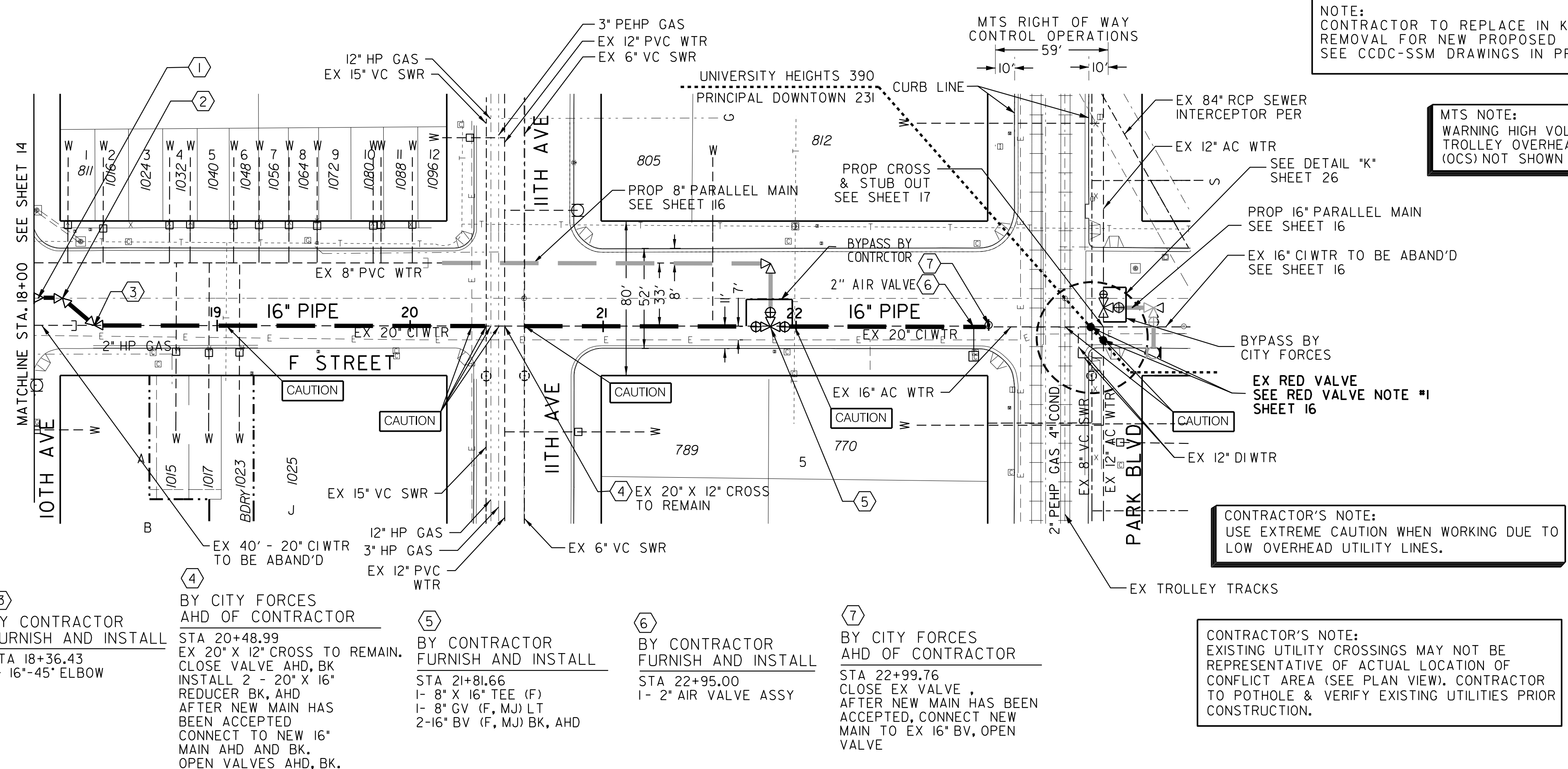






SCALE  
1"=40' HORIZ.  
1"=4' VERT.

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
PI	18+04.94	1840644.29	6283147.75	STRAIGHT	9.81	S 88°14'56.50" E
PI	18+14.75	1840643.99	6283157.56	STRAIGHT	21.67	S 49°31'44.75" E
PI	18+36.43	1840629.93	6283174.04	STRAIGHT	212.56	S 89°44'52.42" E
PI	20+48.99	1840629.09	6283386.61	STRAIGHT	37.67	N 89°40'50.03" E
PI	21+86.66	1840628.39	6283524.28	STRAIGHT	105.38	N 89°37'41.03" E
PI	22+95.00	1840628.15	6283629.66	STRAIGHT	7.72	N 89°37'41.03" E
POE	22+99.76	1840629.12	6283637.37			



NOTE:  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

MTS NOTE:  
WARNING HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM (OCS) NOT SHOWN

REFERENCE:

WATER:	30406-03-D
SEWER:	11057-13-D
STORM DRAIN:	SD
GAS:	I-141, I-143
ELECTRIC:	NONE
CABLE TV:	NONE
TELEPHONE:	NONE
IMPROVEMENTS:	NONE
100' SCALE/FIELD BOOK:	G225-A
THOMAS BROS.:	1289-B3
HGL:	231
SIDEWALK:	CCDC-SSM

RETIREMENTS:  
20' - CI - 711' - 1960

- ① BY CONTRACTOR FURNISH AND INSTALL  
STA 18+04.94  
1- 20" X 16"-REDUCER
- ② BY CONTRACTOR FURNISH AND INSTALL  
STA 18+14.75  
1- 16"-45" ELBOW

- ③ BY CONTRACTOR FURNISH AND INSTALL  
STA 18+36.43  
1- 16"-45" ELBOW

- ④ BY CITY FORCES AHD OF CONTRACTOR  
STA 20+48.99  
EX 20" X 12" CROSS TO REMAIN.  
INSTALL 2 - 20" X 16" REDUCER BK, AHD AFTER NEW MAIN HAS BEEN ACCEPTED CONNECT TO NEW 16" MAIN AHD AND BK. OPEN VALVES AHD, BK.

- ⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 21+81.66  
1- 8" X 16" TEE (F)  
1- 8" GV (F, MJ) LT  
2-16" BV (F, MJ) BK, AHD

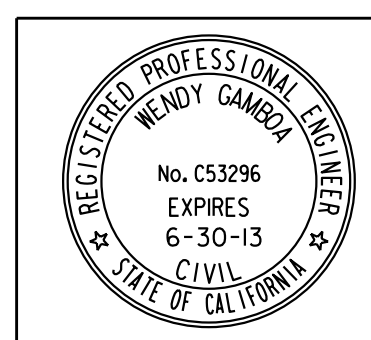
- ⑥ BY CONTRACTOR FURNISH AND INSTALL  
STA 22+95.00  
1- 2" AIR VALVE ASSY

- ⑦ BY CITY FORCES AHD OF CONTRACTOR  
STA 22+99.76  
CLOSE EX VALVE, AFTER NEW MAIN HAS BEEN ACCEPTED, CONNECT NEW MAIN TO EX 16" BV, OPEN VALVE

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

CONTRACTOR'S NOTE:  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POT HOLE & VERIFY EXISTING UTILITIES PRIOR CONSTRUCTION.

SCALE 1"=40' FEET

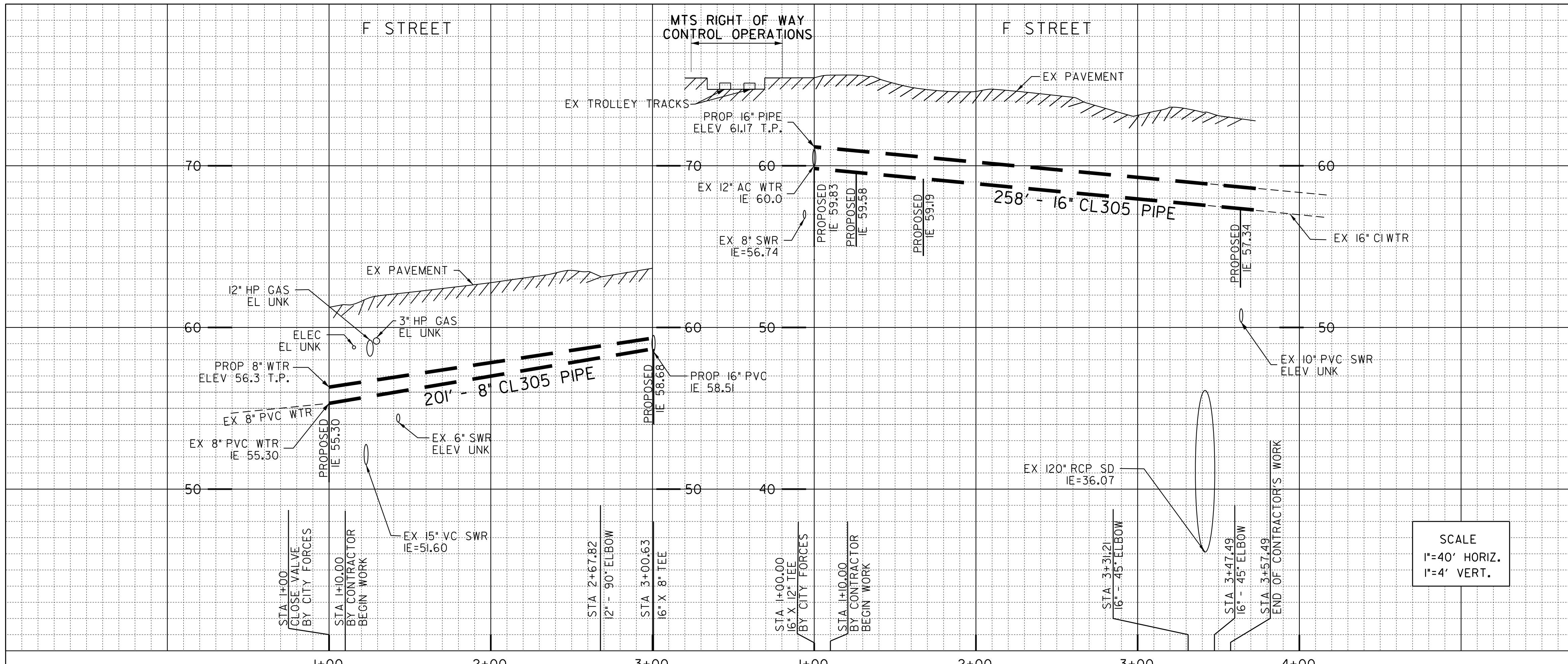


C-14

**SEWER AND WATER GROUP 957**  
F STREET  
10TH AVE TO PARK BL

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 15 OF 28 SHEETS		WATER WBS: B11154 SEWER WBS: N/A
FOR CITY ENGINEER: <i>James</i>	DATE: 2/13/13	PROJECT MANAGER: JIM HAGHOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	PROJECT ENGINEER: ALI MOHAMMADIAN
APPROVED: [Signature]	DATE: [Blank]	COORDINATOR: 198-1719
FILMED: [Blank]	DATE: [Blank]	COORDINATOR: 6280407-1838444
CONTRACTOR: [Blank]	DATE STARTED: [Blank]	COORDINATOR: CC583
INSPECTOR: [Blank]	DATE COMPLETED: [Blank]	PROJECT NUMBER: 36689-15-D

F STREET



PRINCIPLE SETTING OUT LINE FOR PLAN A

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB	1+00.00	1840661.71	6283356.66	STRAIGHT	167.82	S 89°49'22.88" E
PI	2+67.82	1840661.20	6283524.48	STRAIGHT	32.81	S 0°21'09.05" W
POE	3+00.63	1840628.39	6283524.28			

PRINCIPLE SETTING OUT LINE FOR PLAN B

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB	1+00.00	1840637.98	6283696.90	STRAIGHT	25.97	S 89°51'54.67" E
PI	1+25.97	1840637.92	6283722.87	STRAIGHT	41.63	S 89°51'54.67" E
PI	1+67.59	1840637.82	6283764.50	STRAIGHT	163.62	S 89°51'54.67" E
PI	3+31.21	1840637.42	6283928.12	STRAIGHT	16.27	S 52°12'24.07" E
PI	3+47.49	1840627.45	6283940.98	STRAIGHT	25.39	S 89°46'53.77" E
POE	3+72.99	1840627.34	6283966.48			

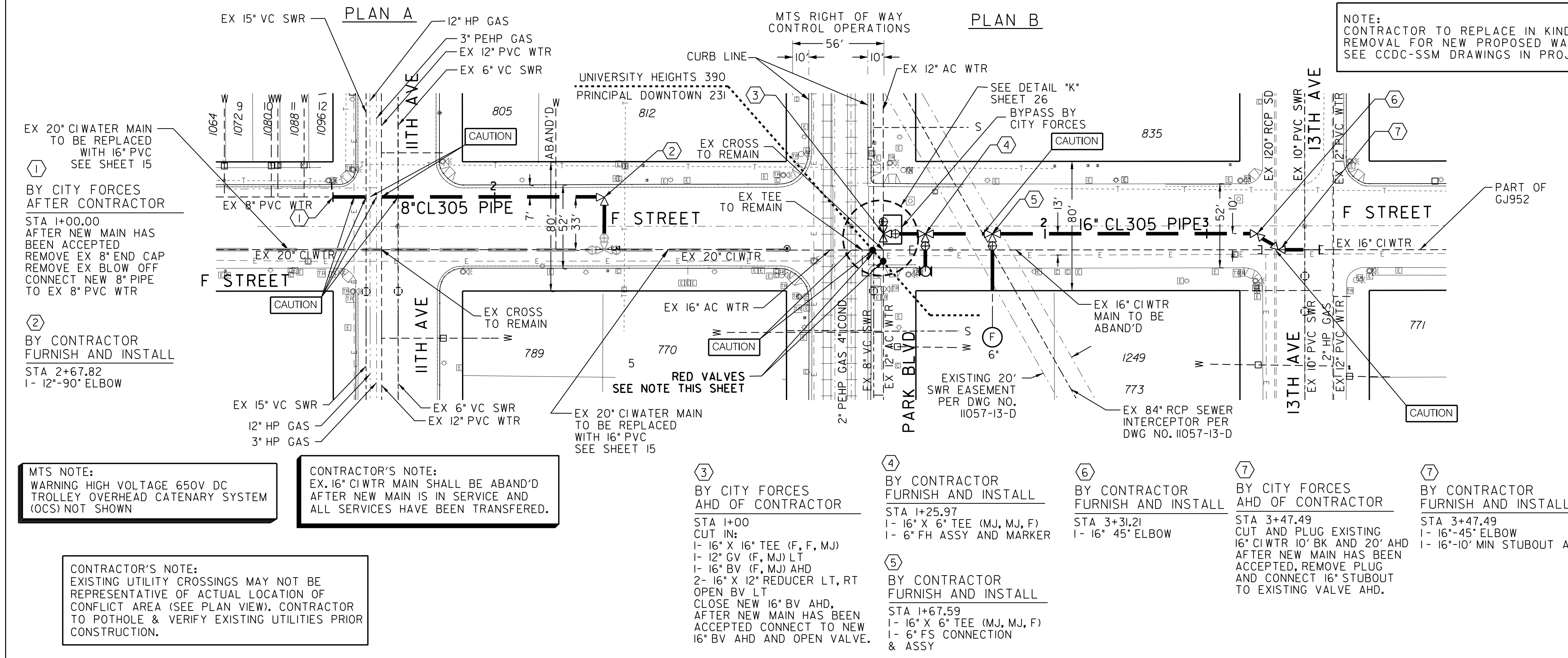
**RED VALVE NOTES #1:**

RED VALVES SHALL BE CLOSED AT ALL TIMES PRIOR TO CUT AND PLUGS AND AFTER RECONNECTIONS. CONTRACTOR VIA THE R.E. SHALL COORDINATE WITH SYSTEM OPERATIONS AND SCADA PERSONNEL TO ENSURE RED VALVES ARE CLOSED AND IN WORKING CONDITION PRIOR TO RECONNECTIONS (PHONE # 619-527-7465).

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00	STA. 3+00.63	200.63
STA. 1+00	STA. 3+57.49	257.49

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.



NOTE: CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

REFERENCE:

WATER:	30406-7-D, 18576-82-D
SEWER:	18576-74-D, 11057-13-D
STORM DRAIN:	3620-D
GAS:	1-145, 1-143
ELECTRIC:	NONE
CABLE TV:	NONE
TELEPHONE:	NONE
IMPROVEMENTS:	NONE
100' SCALE/FIELD BOOK:	G22-B
THOMAS BROS.:	1289-B3
HGL:	390/231
SIDEWALK:	CCDC-SSM

RETIREMENTS:

- 16" - CI - 237.79' - 1960
- 6" FS - 1
- 1" SERVICE - 1 - UNK MATERIAL - 1960

**MTS NOTE:**  
WARNING HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM (OCS) NOT SHOWN

**CONTRACTOR'S NOTE:**  
EX. 16" CIWTR MAIN SHALL BE ABAND'D AFTER NEW MAIN IS IN SERVICE AND ALL SERVICES HAVE BEEN TRANSFERED.

**CONTRACTOR'S NOTE:**  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

**3** BY CITY FORCES AHD OF CONTRACTOR  
STA 1+00  
CUT IN:  
1- 16" X 16" TEE (F, F, MJ)  
1- 12" GV (F, MJ) LT  
1- 16" BV (F, MJ) AHD  
2- 16" X 12" REDUCER LT, RT OPEN BV LT  
CLOSE NEW 16" BV AHD, AFTER NEW MAIN HAS BEEN ACCEPTED CONNECT TO NEW 16" BV AHD AND OPEN VALVE.

**4** BY CONTRACTOR FURNISH AND INSTALL  
STA 1+25.97  
1- 16" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER

**5** BY CONTRACTOR FURNISH AND INSTALL  
STA 1+67.59  
1- 16" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY

**6** BY CONTRACTOR FURNISH AND INSTALL  
STA 3+31.21  
1- 16" 45° ELBOW

**7** BY CITY FORCES AHD OF CONTRACTOR  
STA 3+47.49  
CUT AND PLUG EXISTING 16" CIWTR 10' BK AND 20' AHD AFTER NEW MAIN HAS BEEN ACCEPTED, REMOVE PLUG AND CONNECT 16" STUBOUT TO EXISTING VALVE AHD.

**7** BY CONTRACTOR FURNISH AND INSTALL  
STA 3+47.49  
1- 16"-45° ELBOW  
1- 16"-10' MIN STUBOUT AHD.

SCALE 1"=40' FEET



**C-15**

SEWER AND WATER GROUP 957  
F STREET  
11TH AVE TO 13TH ST

CITY OF SAN DIEGO, CALIFORNIA  
PUBLIC WORKS-ENGINEERING DEPARTMENT  
SHEET 16 OF 28 SHEETS

FOR CITY ENGINEER: *James* 2/13/13  
DATE

WATER WBS: B1154  
SEWER WBS: N/A

PROJECT MANAGER: JIM HAGGOUY

ENGINEER: ALI MOHAMMADIAN  
PROJECT ENGINEER

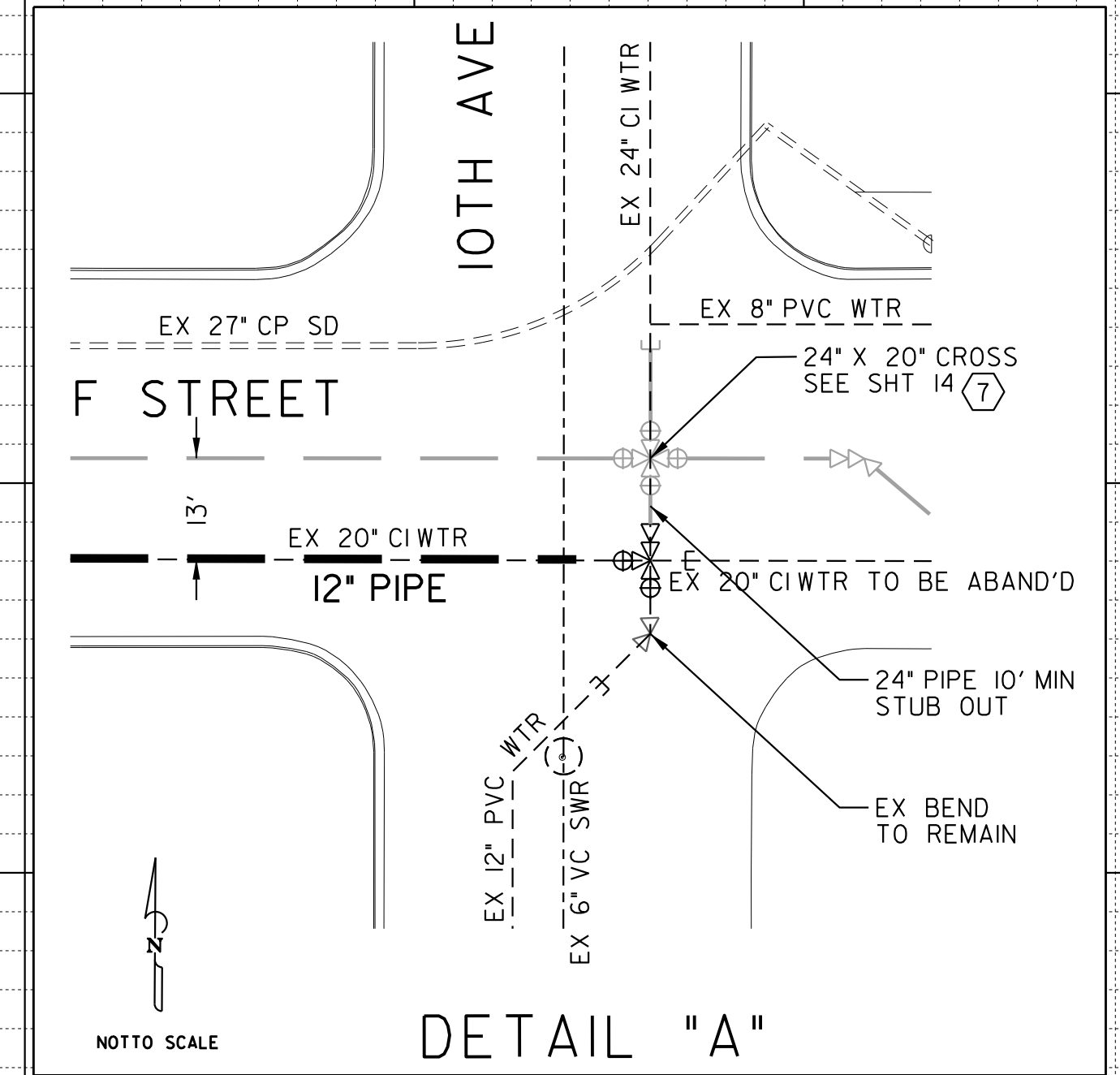
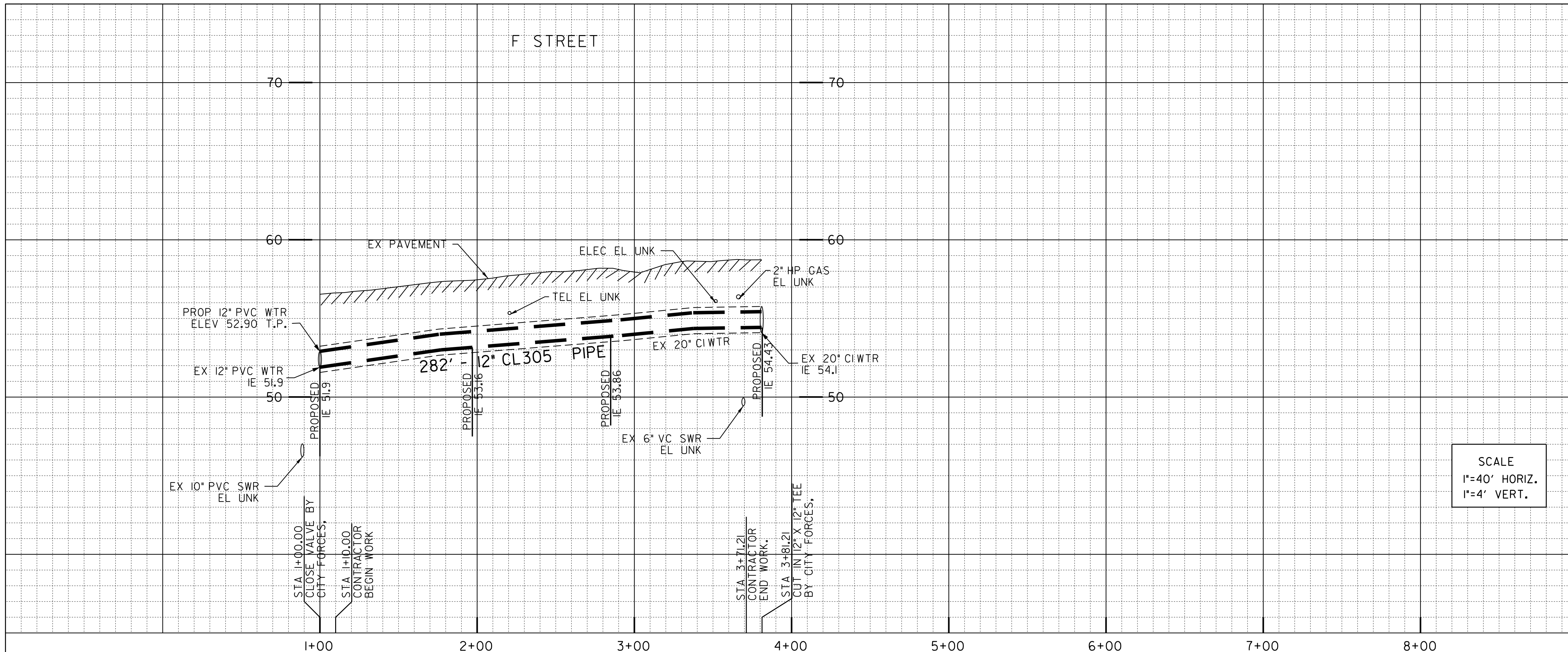
198-1719  
CCS27 COORDINATE

6280407-1838444  
CCS83 COORDINATE

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

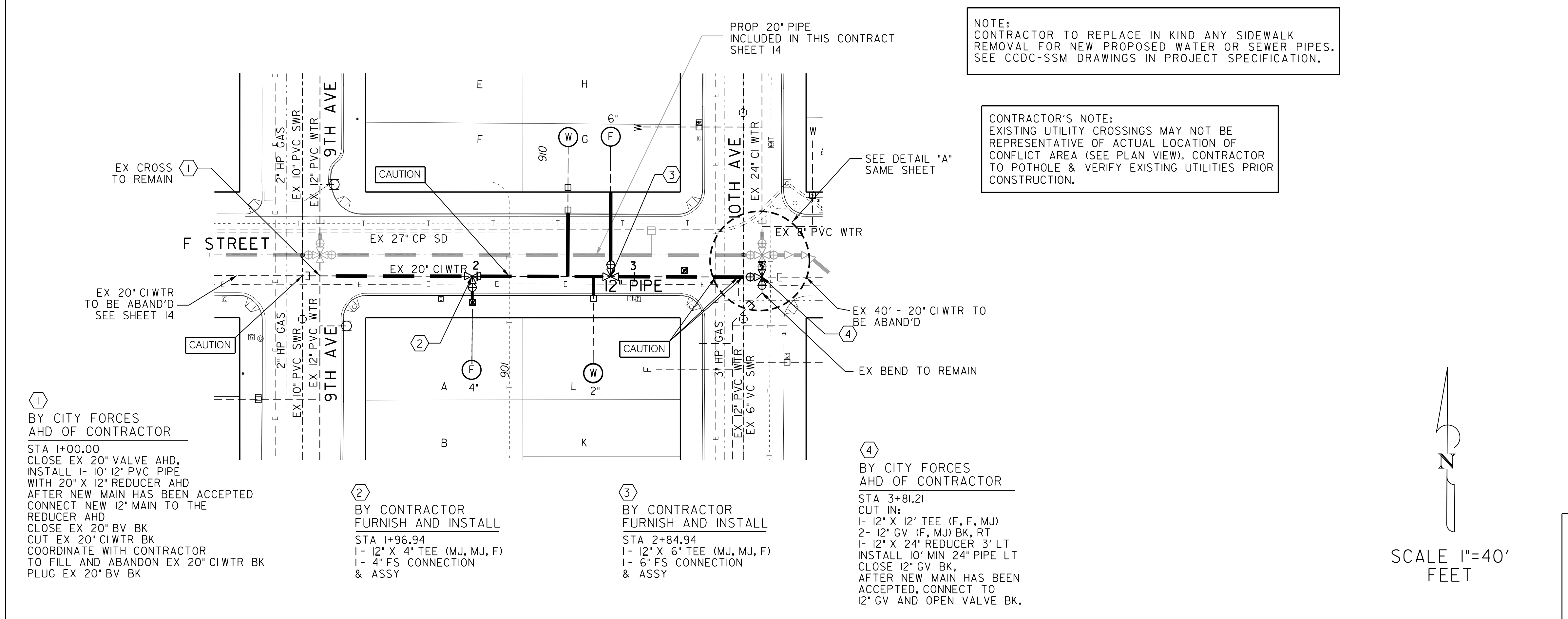
36689-16-D





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

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00")
POB	1+00.00	1840631.44	6282847.02	STRAIGHT	281.21	S 89°43'32.51" E (STRAIGHT)
PI	1+96.94	1840631.19	6282943.96	STRAIGHT	88.00	S 89°34'52.76" E
PI	2+84.94	1840630.54	6283031.96	STRAIGHT	96.27	S 89°43'57.92" E
POE	3+81.21	1840630.09	6283128.23			



NOTE:  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

CONTRACTOR'S NOTE:  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR CONSTRUCTION.

REFERENCE:

WATER:	30406-3-D, 69 (50 SCALE)
SEWER:	20227-9-D
STORM DRAIN:	SD
GAS:	1-162,1-39, 1-141
ELECTRIC:	NONE
CABLE TV:	NONE
TELEPHONE:	NONE
IMPROVEMENTS:	NONE
100' SCALE/FIELD BOOK:	C225-A
THOMAS BROS.:	1289-B3
HGL:	231
SIDEWALK:	CCDC-SSM

RETIREMENTS:  
20" - CI - 281.20' - 1911  
1" SERVICE - 1 - UNK MATERIAL - 1911  
2" SERVICE - 1 - UNK MATERIAL - 1911  
4" SERVICE - 1 - UNK MATERIAL - 1911

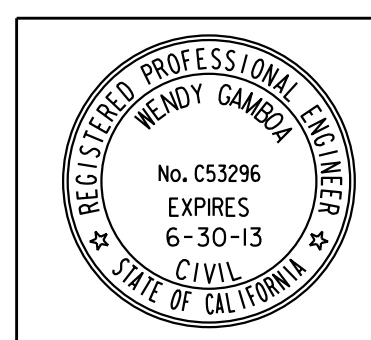
① BY CITY FORCES AHD OF CONTRACTOR  
STA 1+00.00  
CLOSE EX 20" VALVE AHD, INSTALL 1- 10" 12" PVC PIPE WITH 20" X 12" REDUCER AHD AFTER NEW MAIN HAS BEEN ACCEPTED CONNECT NEW 12" MAIN TO THE REDUCER AHD  
CLOSE EX 20" BV BK  
CUT EX 20" CIWTR BK  
COORDINATE WITH CONTRACTOR TO FILL AND ABANDON EX 20" CIWTR BK  
PLUG EX 20" BV BK

② BY CONTRACTOR FURNISH AND INSTALL  
STA 1+96.94  
1- 12" X 4" TEE (MJ, MJ, F)  
1- 4" FS CONNECTION & ASSY

③ BY CONTRACTOR FURNISH AND INSTALL  
STA 2+84.94  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY

④ BY CITY FORCES AHD OF CONTRACTOR  
STA 3+81.21  
CUT IN:  
1- 12" X 12" TEE (F, F, MJ)  
2- 12" GV (F, MJ) BK, RT  
1- 12" X 24" REDUCER 3' LT  
INSTALL 10' MIN 24" PIPE LT  
CLOSE 12" GV BK,  
AFTER NEW MAIN HAS BEEN ACCEPTED, CONNECT TO 12" GV AND OPEN VALVE BK.

SCALE 1"=40' FEET

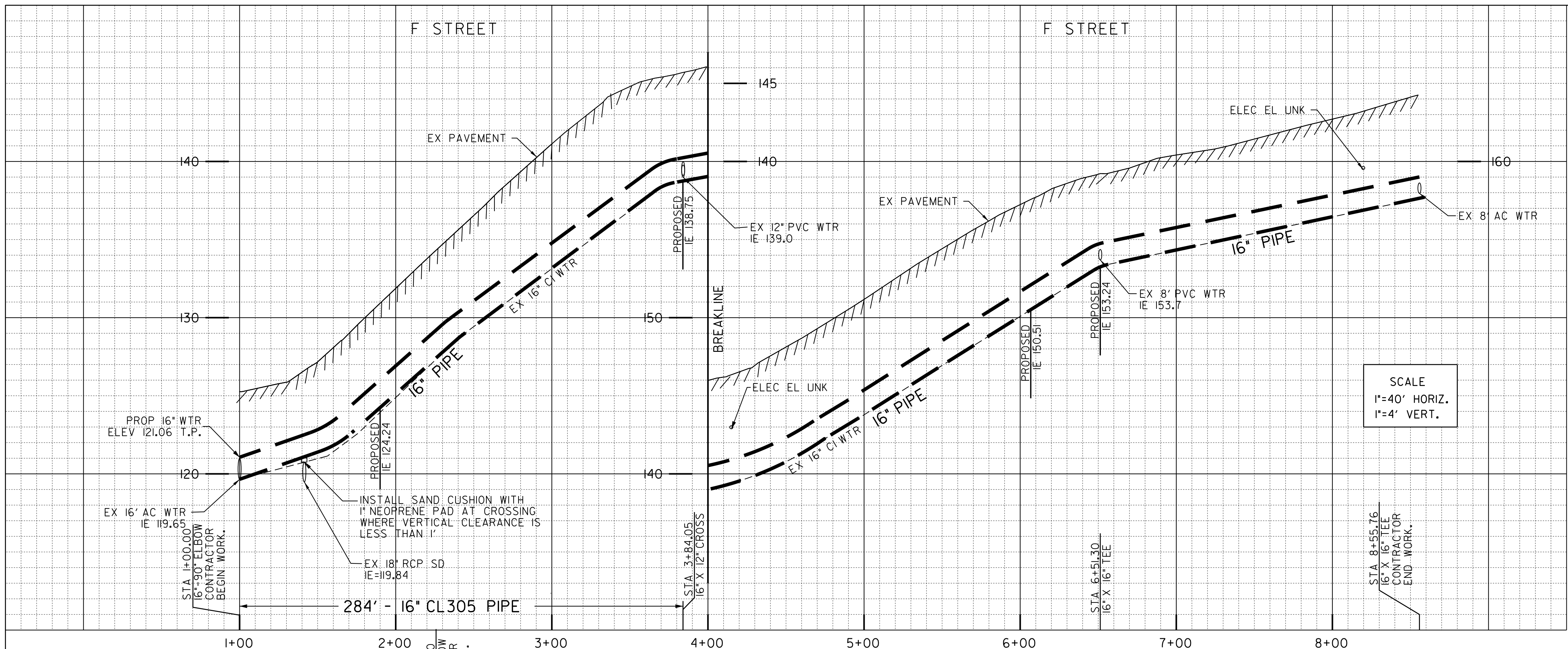


C-16

SEWER AND WATER GROUP 957  
F STREET  
9TH AVE TO 10TH AVE

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 17 OF 28 SHEETS		WATER WBS: B11154 SEWER WBS: N/A
FOR CITY ENGINEER: <i>W. Saml</i>	DATE: 2/13/13	PROJECT MANAGER: JIM HAGHGOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	APPROVED: ALI MOHAMMADIAN PROJECT ENGINEER
		198-1719 CCS27 COORDINATE
		6280407-1838444 CCS83 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____	36689-17-D
INSPECTOR: _____	DATE COMPLETED: _____	

F STREET



POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00\"/>
POB	1+00.00	1840627.00	6286404.02	STRAIGHT	90.08	S 89°59'59.99\"/>
PI	1+90.08	1840627.00	6286494.10	STRAIGHT	193.97	S 89°59'51.73\"/>
PI	3+84.05	1840627.00	6286688.08	STRAIGHT	267.25	S 89°56'42.12\"/>
PI	6+51.30	1840626.76	6286955.33	STRAIGHT	22.20	N 89°57'12.28\"/>
PI	6+73.51	1840626.58	6286977.53	STRAIGHT	182.25	N 89°58'12.28\"/>
POE	8+55.76	1840626.92	6287159.79			

⑤  
 BY CONTRACTOR FURNISH AND INSTALL  
 STA 6+73.51  
 1- 16" X 6" TEE (MJ, F)  
 1- 6" FH 2 PORT ASSY AND MARKER

⑥  
 BY CITY FORCES AHD OF CONTRACTOR  
 STA 8+55.76  
 CUT AND PLUG:  
 EX 8" AC WTR 20' LT  
 EX 16" CI WTR 20' AHD  
 RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.

⑥  
 BY CONTRACTOR FURNISH AND INSTALL  
 STA 8+55.76  
 1- 16" X 8" TEE (F)  
 2- 16" BV (F, MJ) BK, AHD  
 1- 8" GV (F, MJ) LT  
 1- 8" PIPE 10' MIN STUB OUT LT  
 1- 16" PIPE 10' MIN STUB OUT AHD

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

CONTRACTOR'S NOTE:  
 EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

PROP 8" PIPE SWR INCLUDED IN THIS CONTRACT SEE SHEET 5

NOTEM:  
 SIDEWALK PAVING SHALL MATCH EXISTING IN DESIGN, KIND AND COLOR.

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

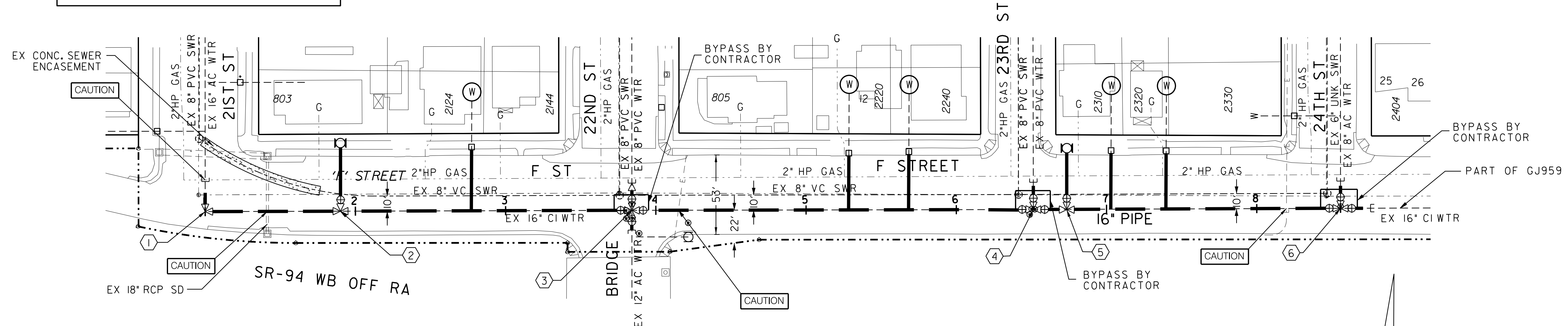
HIGHLINING NOTE:  
 CITY FORCES TO HIGHLINE "F" ST FROM STA. 1+00 TO STA. 8+55.77, CITY FORCES TO FURNISH HIGHLINE MATERIALS AND TRANSFER SERVICES.

REFERENCE:

WATER:	9443-D, 27076-12-D, 29045-12/14-D
SEWER:	5367-D, 29045-27/28/31-D
STORM DRAIN:	NONE
GAS:	5-136, 5-154, 5-155,
ELECTRIC:	NONE
CABLE TV:	NONE
TELEPHONE:	NONE
IMPROVEMENTS:	14468-4-L
100' SCALE/FIELD BOOK:	H225
THOMAS BROS.:	1289-C3
HGL:	390

RETIREMENTS:

16" - CI - 284' - 1962  
 16" - CI - 471.72' - 1911  
 1" SERVICE - 1 - UNK MATERIAL - 1962  
 1" SERVICE - 4 - UNK MATERIAL - 1911



①  
 BY CITY FORCES AHD OF CONTRACTOR  
 STA 1+00  
 CUT AND PLUG:  
 EX 16" AC WTR 20' LT  
 RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.

①  
 BY CONTRACTOR FURNISH AND INSTALL  
 STA 1+00  
 1- 16" 90° ELBOW  
 1- 16" PIPE 10' MIN STUB OUT LT

②  
 BY CONTRACTOR FURNISH AND INSTALL  
 STA 1+90.08  
 1- 12" X 6" TEE (F)  
 1- 6" FH 2 PORT ASSY AND MARKER

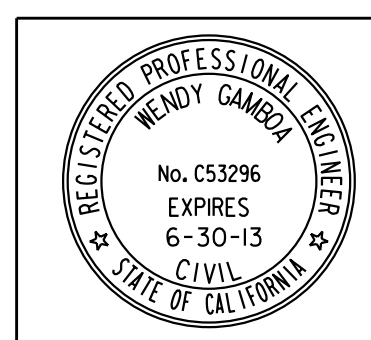
③  
 BY CITY FORCES AHD OF CONTRACTOR  
 STA 3+84.05  
 CUT AND PLUG:  
 EX 8" PVC WTR 20' LT  
 EX 12" AC WTR 20' RT  
 RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.

③  
 BY CONTRACTOR FURNISH AND INSTALL  
 STA 3+84.05  
 1- 16" X 12" CROSS (F)  
 2- 16" BV (F, MJ) BK, AHD  
 2- 12" GV (F, MJ) LT, RT  
 1- 8" X 12" REDUCER (MJ, MJ) 3' LT  
 1- 12" PIPE 10' MIN STUB OUT RT  
 1- 8" PIPE 10' MIN STUB OUT LT

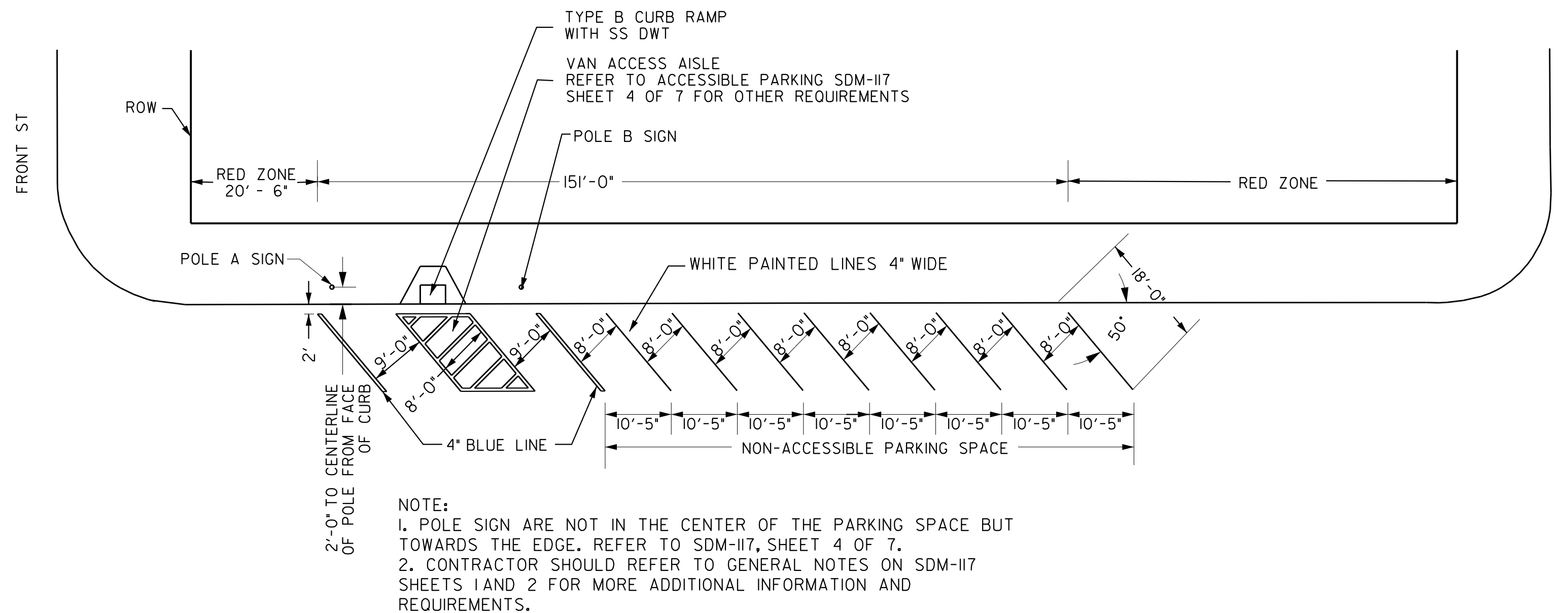
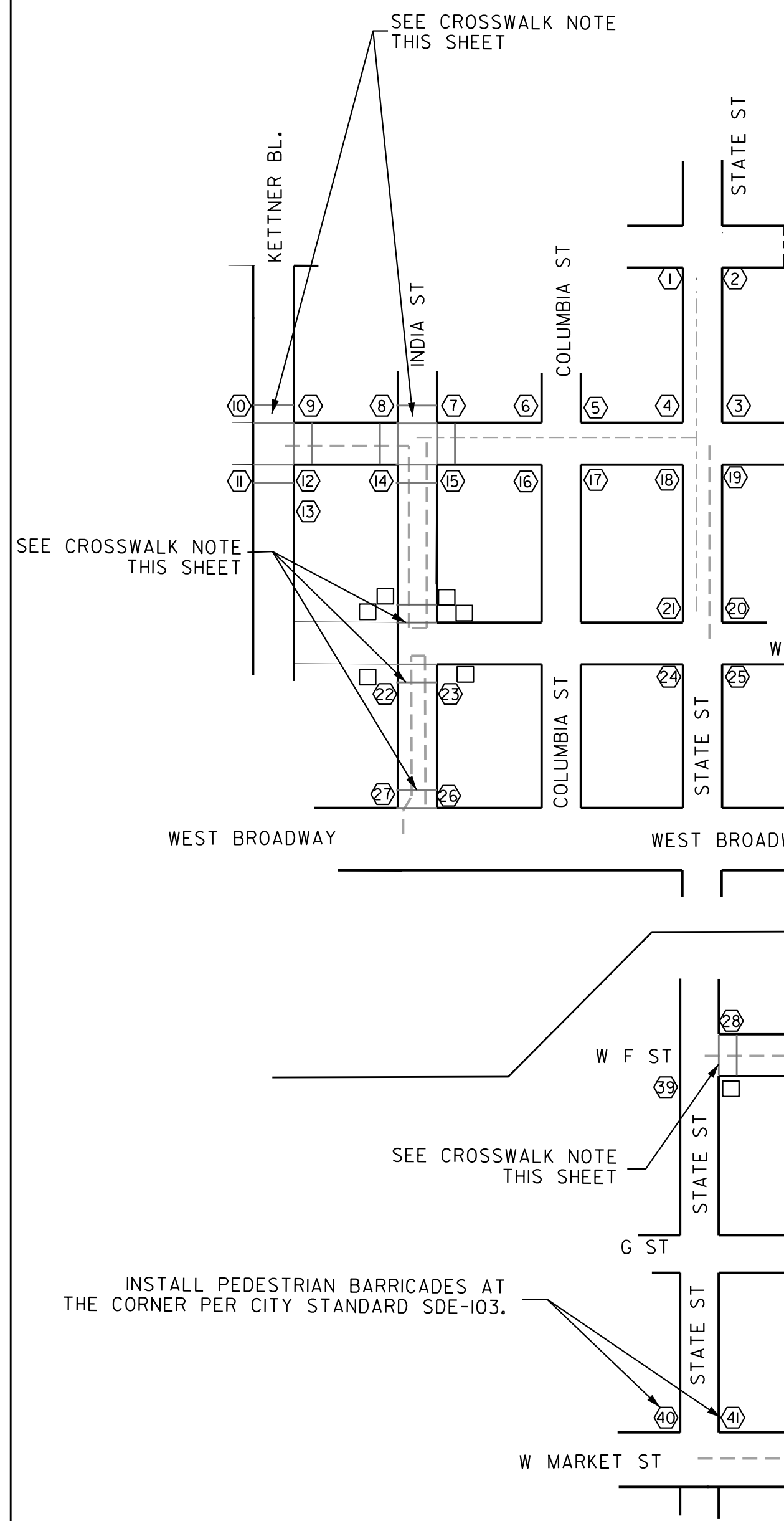
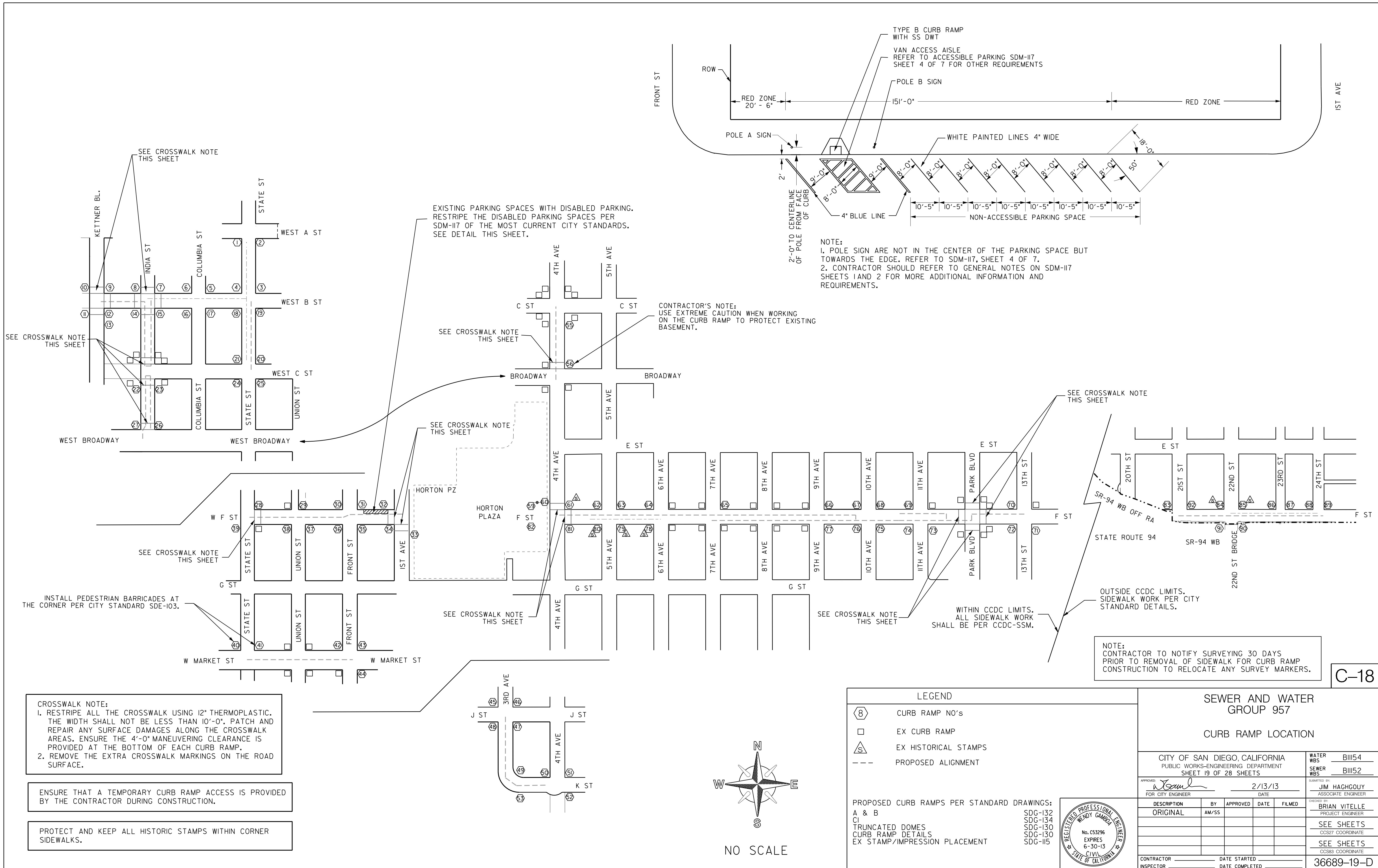
④  
 BY CITY FORCES AHD OF CONTRACTOR  
 STA 6+51.30  
 CUT AND PLUG:  
 EX 8" PVC WTR 20' LT  
 RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.

④  
 BY CONTRACTOR FURNISH AND INSTALL  
 STA 6+51.30  
 1- 16" X 8" TEE (F)  
 2- 16" BV (F, MJ) BK, AHD  
 1- 8" GV (F, MJ) LT  
 1- 8" PIPE 5' MIN STUB OUT LT

SCALE 1"=40' FEET



SEWER AND WATER GROUP 957 F STREET 21ST ST TO 25TH ST				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 18 OF 28 SHEETS			WATER WBS: BIII54	SEWER WBS: N/A
FOR CITY ENGINEER: <i>Wendy Campbell</i> DATE: 2/13/13			PROJECT MANAGER: JIM HAGHGOUY	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	AM/SS			
PROJECT ENGINEER: ALI MOHAMMADIAN			PROJECT NUMBER: 198-1719	
COORDINATOR: 6280407-1838444			COORDINATOR: CCS83	
CONTRACTOR: _____ DATE STARTED: _____			PROJECT NUMBER: 36689-18-D	
INSPECTOR: _____ DATE COMPLETED: _____				



NOTE:  
 1. POLE SIGN ARE NOT IN THE CENTER OF THE PARKING SPACE BUT TOWARDS THE EDGE. REFER TO SDM-II7, SHEET 4 OF 7.  
 2. CONTRACTOR SHOULD REFER TO GENERAL NOTES ON SDM-II7 SHEETS 1 AND 2 FOR MORE ADDITIONAL INFORMATION AND REQUIREMENTS.

CONTRACTOR'S NOTE:  
 USE EXTREME CAUTION WHEN WORKING ON THE CURB RAMP TO PROTECT EXISTING BASEMENT.

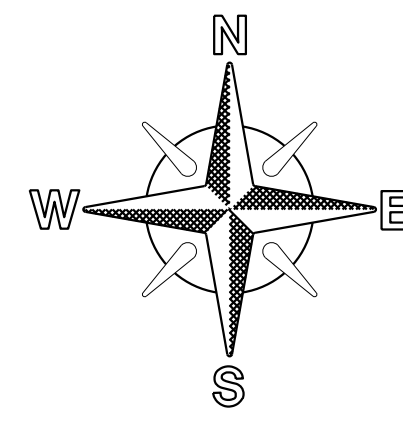
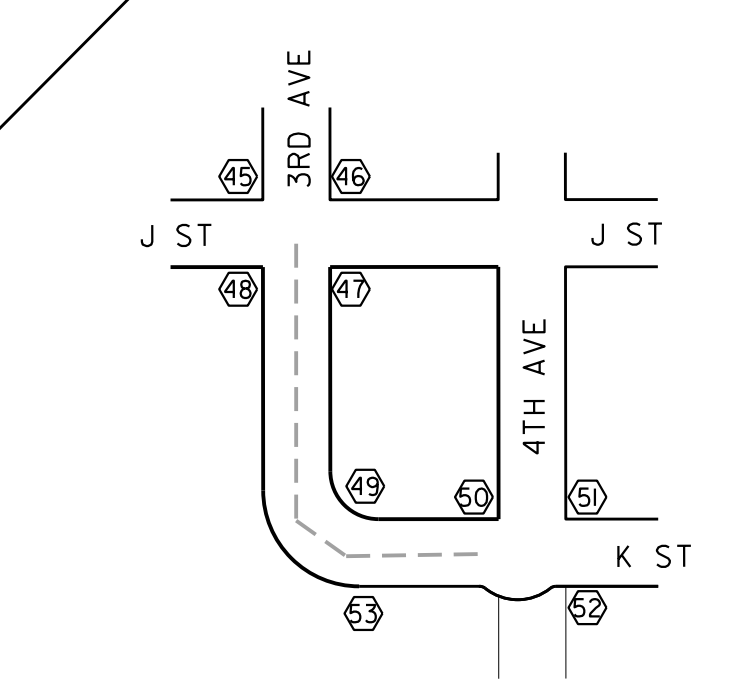
EXISTING PARKING SPACES WITH DISABLED PARKING. RESTRIPE THE DISABLED PARKING SPACES PER SDM-II7 OF THE MOST CURRENT CITY STANDARDS. SEE DETAIL THIS SHEET.

INSTALL PEDESTRIAN BARRICADES AT THE CORNER PER CITY STANDARD SDE-103.

CROSSWALK NOTE:  
 1. RESTRIPE ALL THE CROSSWALK USING 12" THERMOPLASTIC. THE WIDTH SHALL NOT BE LESS THAN 10'-0". PATCH AND REPAIR ANY SURFACE DAMAGES ALONG THE CROSSWALK AREAS. ENSURE THE 4'-0" MANEUVERING CLEARANCE IS PROVIDED AT THE BOTTOM OF EACH CURB RAMP.  
 2. REMOVE THE EXTRA CROSSWALK MARKINGS ON THE ROAD SURFACE.

ENSURE THAT A TEMPORARY CURB RAMP ACCESS IS PROVIDED BY THE CONTRACTOR DURING CONSTRUCTION.

PROTECT AND KEEP ALL HISTORIC STAMPS WITHIN CORNER SIDEWALKS.



NO SCALE

**LEGEND**

- ⊗ CURB RAMP NO'S
- EX CURB RAMP
- ⊠ EX HISTORICAL STAMPS
- PROPOSED ALIGNMENT

PROPOSED CURB RAMP PER STANDARD DRAWINGS:  
 A & B SDG-132  
 CI SDG-134  
 TRUNCATED DOMES SDG-130  
 CURB RAMP DETAILS SDG-130  
 EX STAMP/IMPRESSION PLACEMENT SDG-115

**SEWER AND WATER GROUP 957**

**CURB RAMP LOCATION**

CITY OF SAN DIEGO, CALIFORNIA  
 PUBLIC WORKS-ENGINEERING DEPARTMENT  
 SHEET 19 OF 28 SHEETS

APPROVED: *[Signature]* 2/13/13  
 FOR CITY ENGINEER DATE

DESIGNED BY: JIM HAGGOUY, ASSOCIATE ENGINEER  
 CHECKED BY: BRIAN VITELLE, PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	AM/SS			

SEE SHEETS CCS27 COORDINATE  
 SEE SHEETS CCS83 COORDINATE

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

36689-19-D

C-18

CURB RAMP LOCATION



CURB RAMP NOTES TABLE										
LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES		CONSTRAINTS	SIDEWALK MATERIAL		COMMENTS / MODIFICATIONS
					• STAINLESS STEEL	• OTHER		• PAVERS/ CONCRETE	• PAVERS/ BRICKS	
1	A		X		X					
2	A		X		X					SEE DETAIL SHEET 21
3	A		X		X					
4	A		X		X					
5	A		X		X			X		PROVIDE BRICK BORDER OUTSIDE THE 12" GROOVED BORDER
6	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
7	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
8	A		X		X					
9	A		X		X					
10	B		X		X					
11	B		X		X					
12	*		X		X					DIRECTIONAL CURB RAMP, SEE DETAIL SHEET 21
13	B		X		X					
14	A		X		X					
15	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
16	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
17	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
18	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
19	A		X		X					
20	A		X		X					SEE DETAIL SHEET 21
21	C		X		X					SEE DETAIL SHEET 21
22	B		X		X					
23	B		X		X					
24	A		X		X					
25	A		X		X					
26	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
27	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
28	A		X		X					
29	A		X		X			X		THERE IS AN EXISTING MANHOLE NEAR THE CORNER. LOCATE THE NEW CURB RAMP CLOSEST TO AT THE CENTER OF THE SIDEWALK CORNER. MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
30	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
31	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
32	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
33	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
34	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
35	A		X		X					
36	A		X		X					
37	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
38	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
39	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
40	*		X		X			X		DIRECTIONAL CURB RAMP, SEE DETAIL SHEET 21. MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
41	*		X		X			X		DIRECTIONAL CURB RAMP, SEE DETAIL SHEET 21. MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
42	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
43	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
44	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
45	A		X		X					
46	A		X		X					
47	A		X		X					
48	A		X		X					
49	A		X		X					
50	A		X		X					
51	A		X		X					
52	A	X			X					
53	A		X		X					

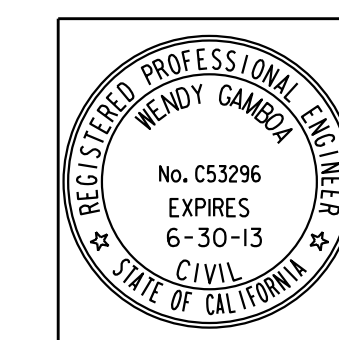
CURB RAMP NOTES TABLE										
LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES		CONSTRAINTS	SIDEWALK MATERIAL		COMMENTS / MODIFICATIONS
					• STAINLESS STEEL	• OTHER		• PAVERS/ CONCRETE	• PAVERS/ BRICKS	
55	B		X		X					
56	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS AND SPECIFY A 6'-0" WIDE RAMP OPENING.
59	*		X		X					DIRECTIONAL CURB RAMP, SEE DETAIL SHEET 21
60	B		X		X					
61	A		X	X	X					SPECIFY A 6'-0" WIDE RAMP OPENING
62	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS AND SPECIFY A 6'-0" WIDE RAMP OPENING.
63	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS AND SPECIFY A 6'-0" WIDE RAMP OPENING.
64	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
65	A		X		X					
66	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
67	A		X		X					
68	A		X		X					
69	A		X		X					
70	A		X		X					
71	A		X		X					
72	A		X		X					
73	A		X		X					
74	A		X		X					
75	A		X		X					
76	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
77	A		X		X					
78	A		X	X	X		X	X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
79	A		X	X	X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS AND SPECIFY A 6'-0" WIDE RAMP OPENING.
80	A		X	X	X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS AND SPECIFY A 6'-0" WIDE RAMP OPENING.
81	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS AND SPECIFY A 6'-0" WIDE RAMP OPENING. CURB RAMP TO BE DIRECTIONAL TO NORTHEAST.
82	D		X		X					
83	HALF-FLARED TYPE A	X			X					CURB RAMP TO BE DIRECTIONAL TO NORTHEAST CORNER. SEE DETAIL SHEET 21
84	A		X	X	X					
85	A		X	X	X					
86	A		X		X					
87	A		X		X					
88	A		X		X					
89	A		X		X					
90	CI		X			X				SEE DETAIL SHEET 21
91	CI		X			X				SEE DETAIL SHEET 21
92	A	X				X				

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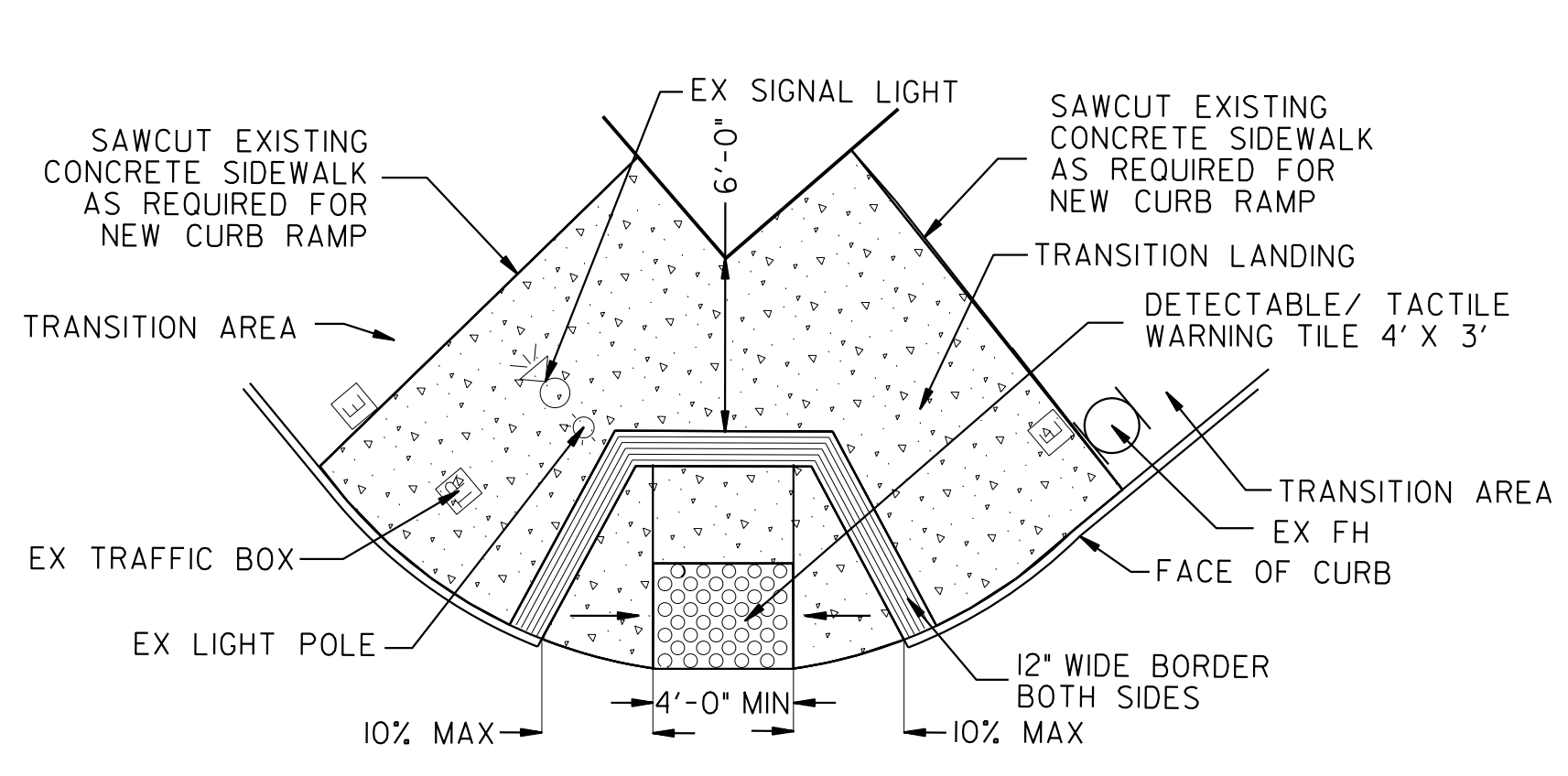
SEWER AND WATER  
GROUP 957  
CURB RAMP NOTES TABLE

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 20 OF 28 SHEETS		WATER WBS B11154 SEWER WBS B11152
APPROVED BY: <i>[Signature]</i> FOR CITY ENGINEER	DATE: 2/13/13	DRAWN BY: JIM HAGHOUY ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	BY: AM/SS	APPROVED: [ ]
		DATE: [ ]
		FILMED: [ ]
		DATE: [ ]
		DATE: [ ]
CONTRACTOR: _____		DATE STARTED: _____
INSPECTOR: _____		DATE COMPLETED: _____

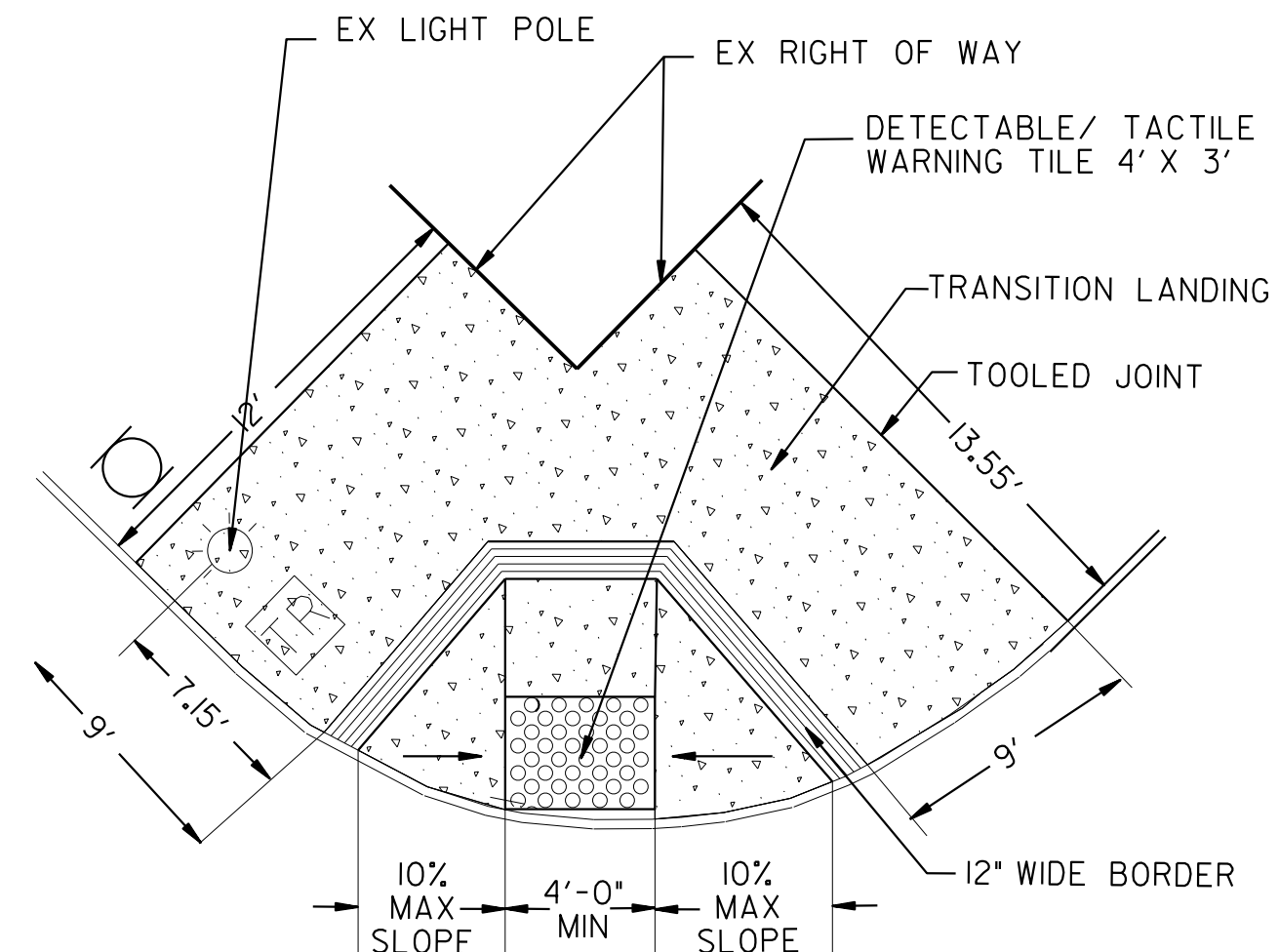
36689-20-D



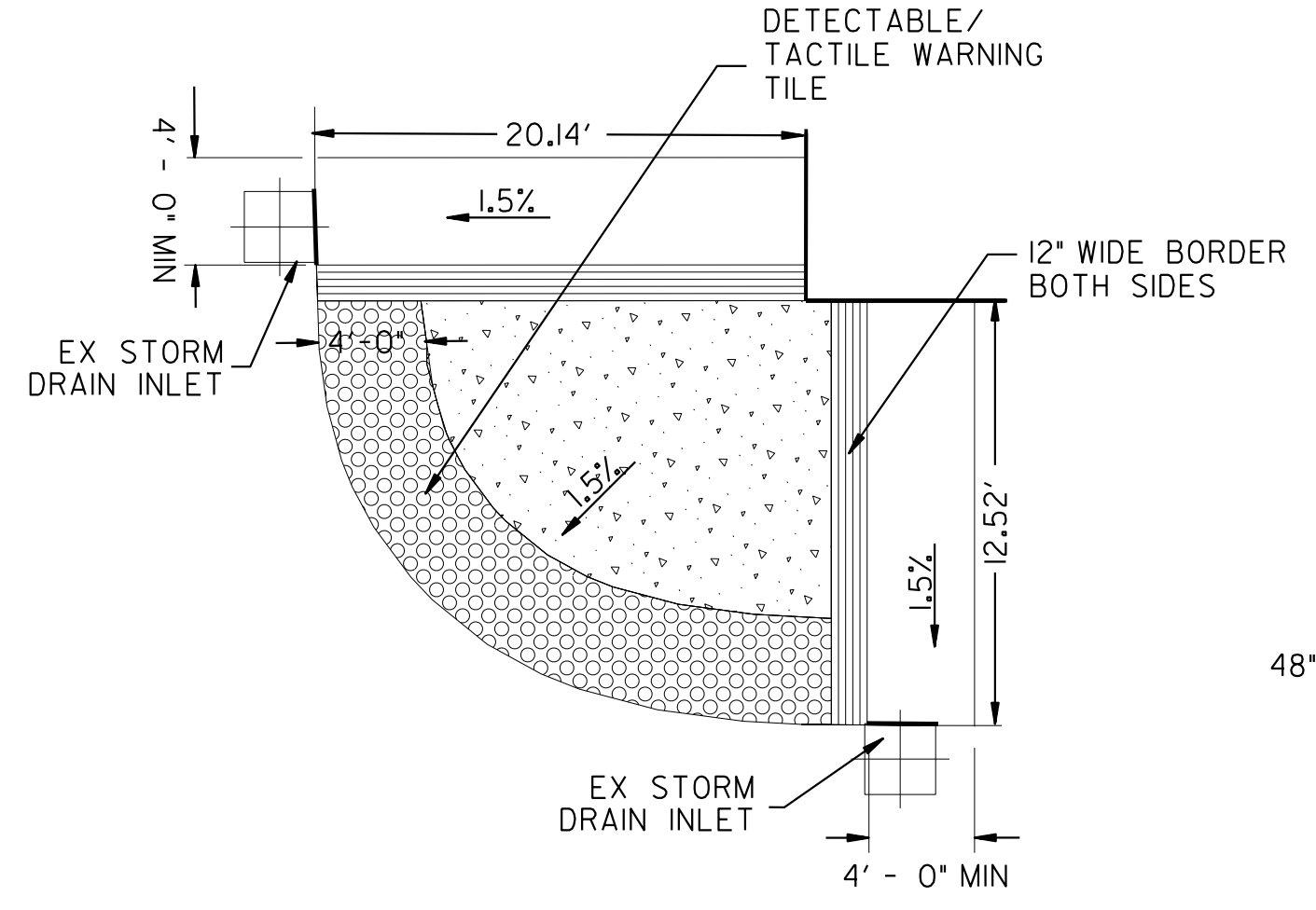
CURB RAMP NOTES TABLE



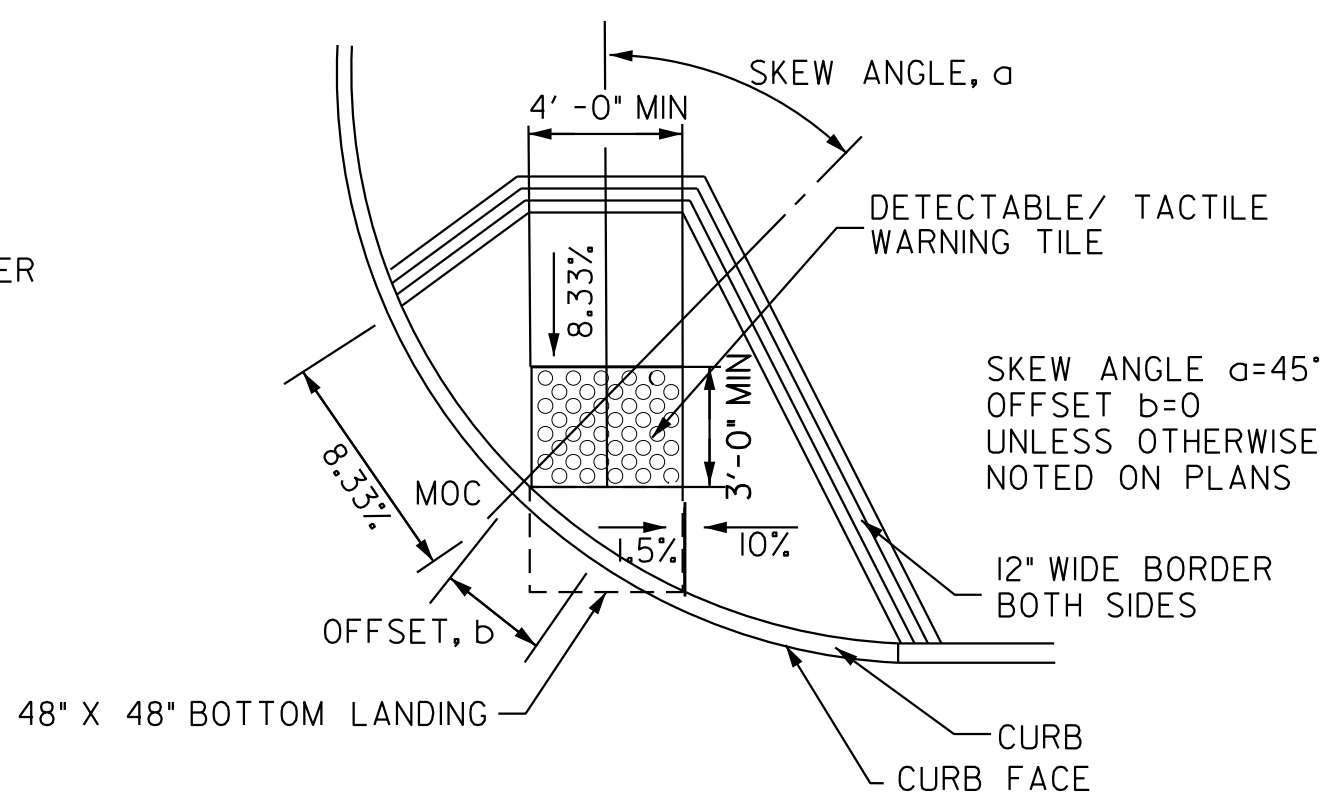
CURB RAMP #2  
TYPE A



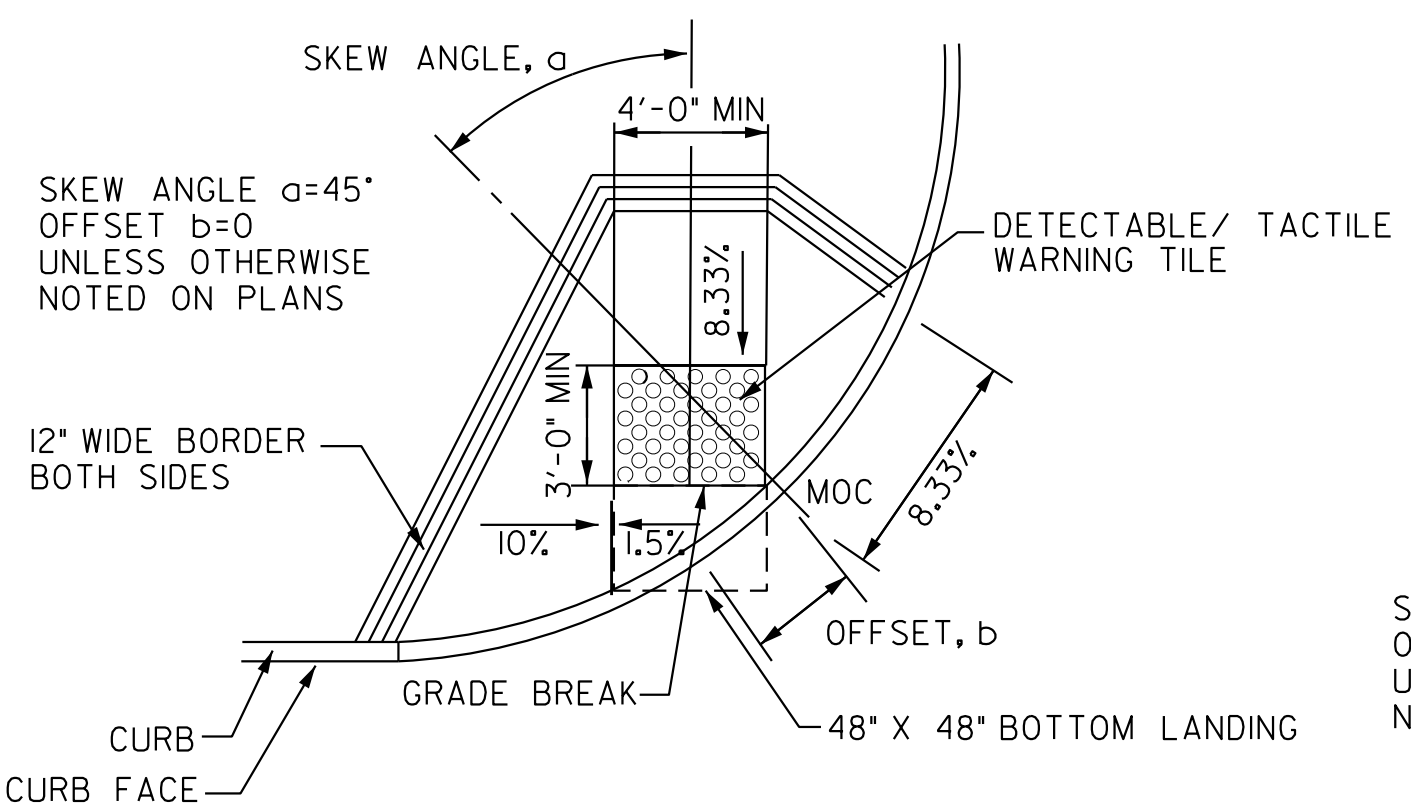
CURB RAMP #20  
TYPE A



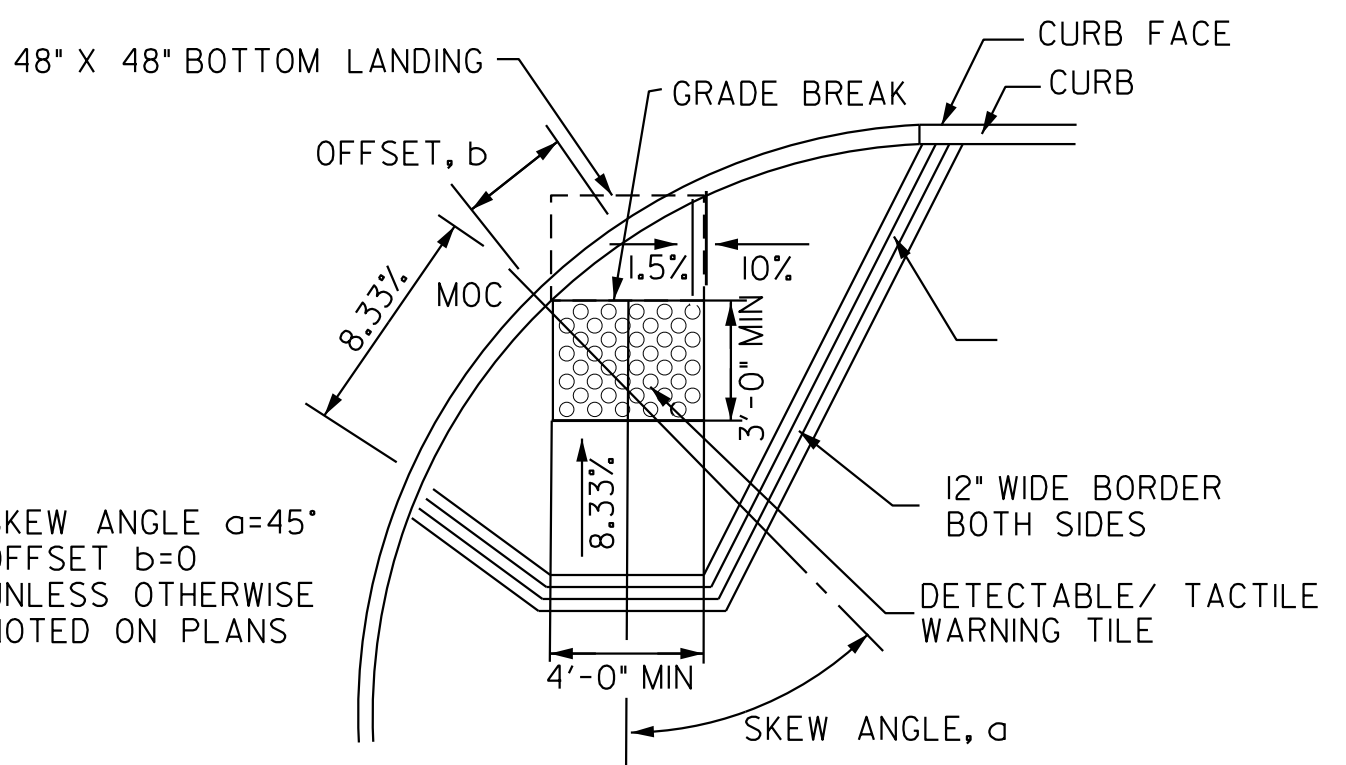
CURB RAMP #21  
CASE C BLENDED TRANSITION



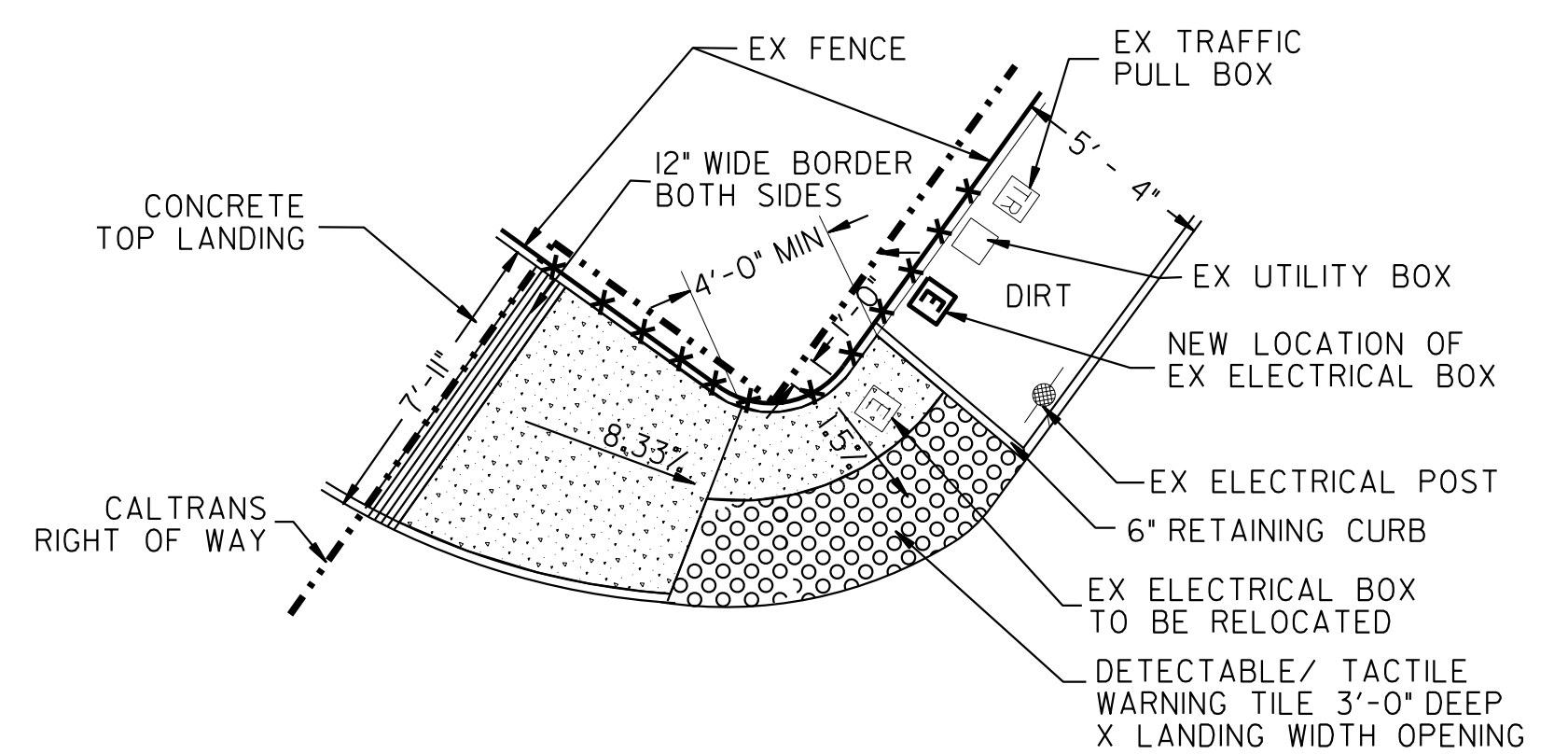
CURB RAMP #41  
DIRECTIONAL CURB RAMP



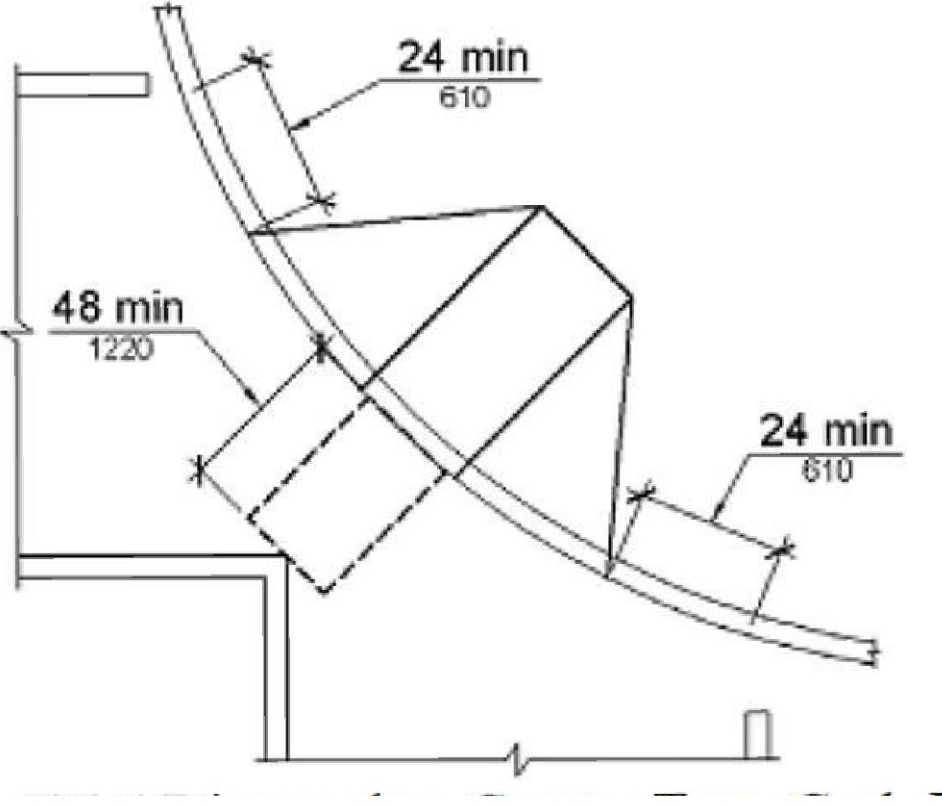
CURB RAMP #40 AND #59  
DIRECTIONAL CURB RAMP



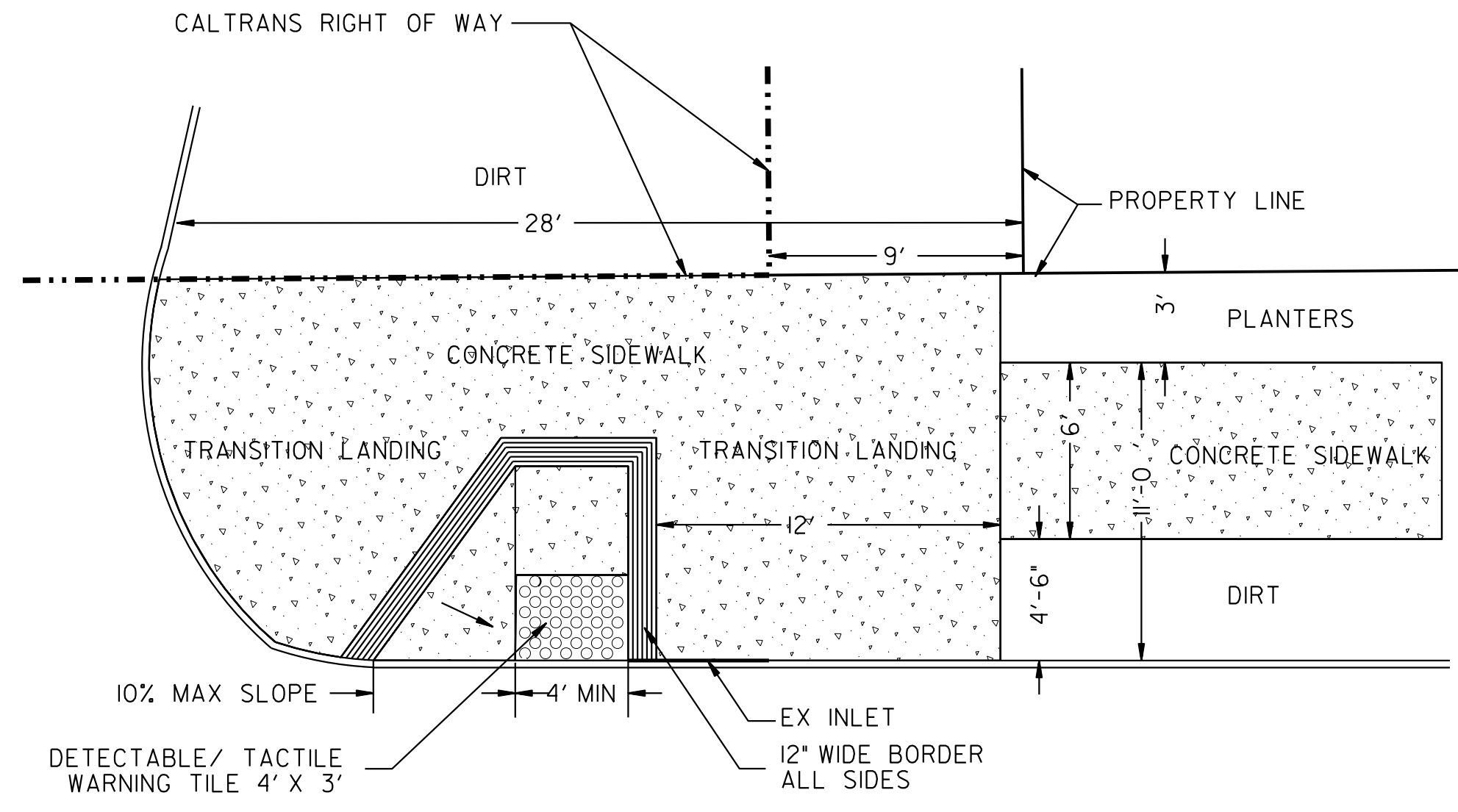
CURB RAMP #12  
DIRECTIONAL CURB RAMP



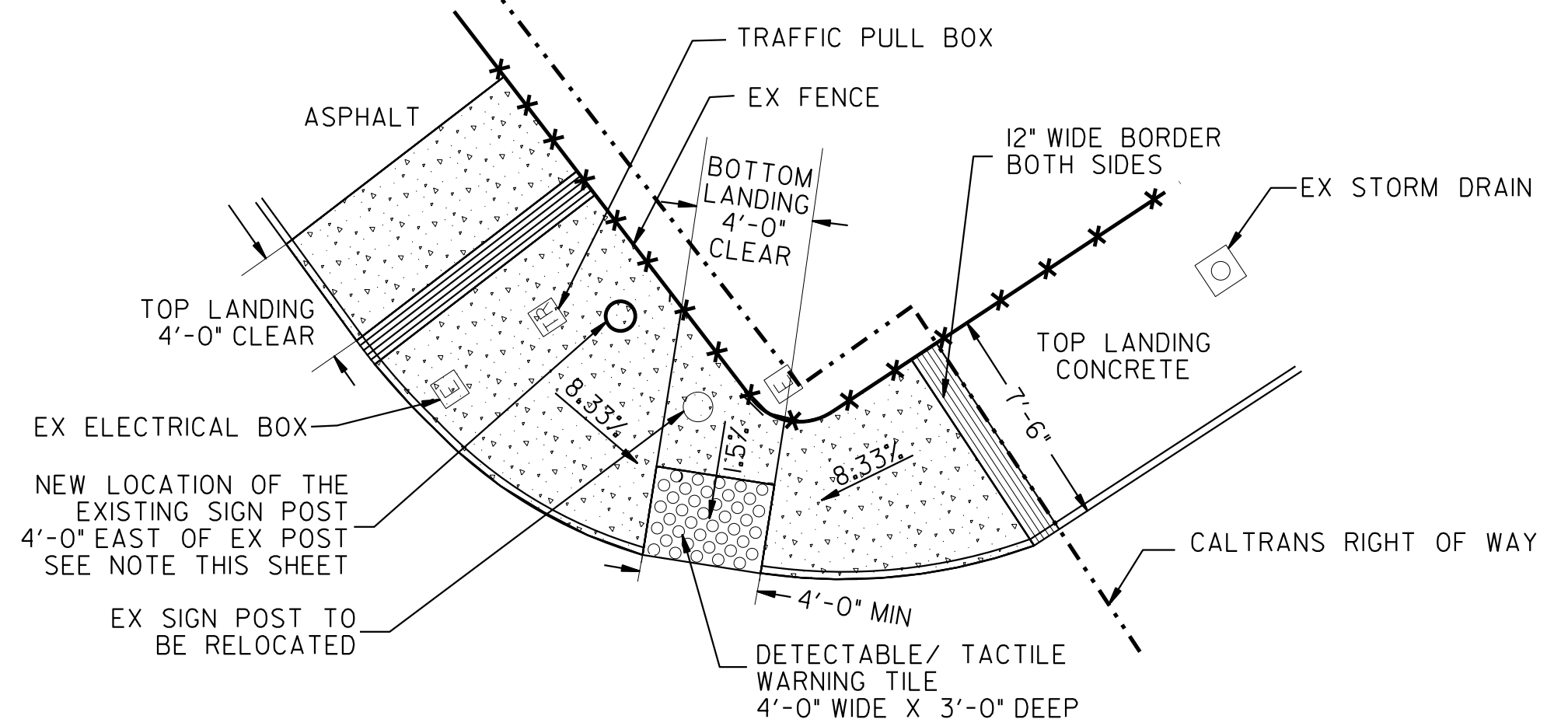
CURB RAMP #91  
TYPE CI



DIAGONAL OR CORNER TYPE  
CURB RAMPS



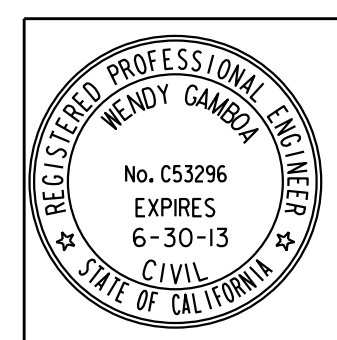
CURB RAMP #83  
HALF FLARED TYPE A



CURB RAMP #90  
TYPE CI

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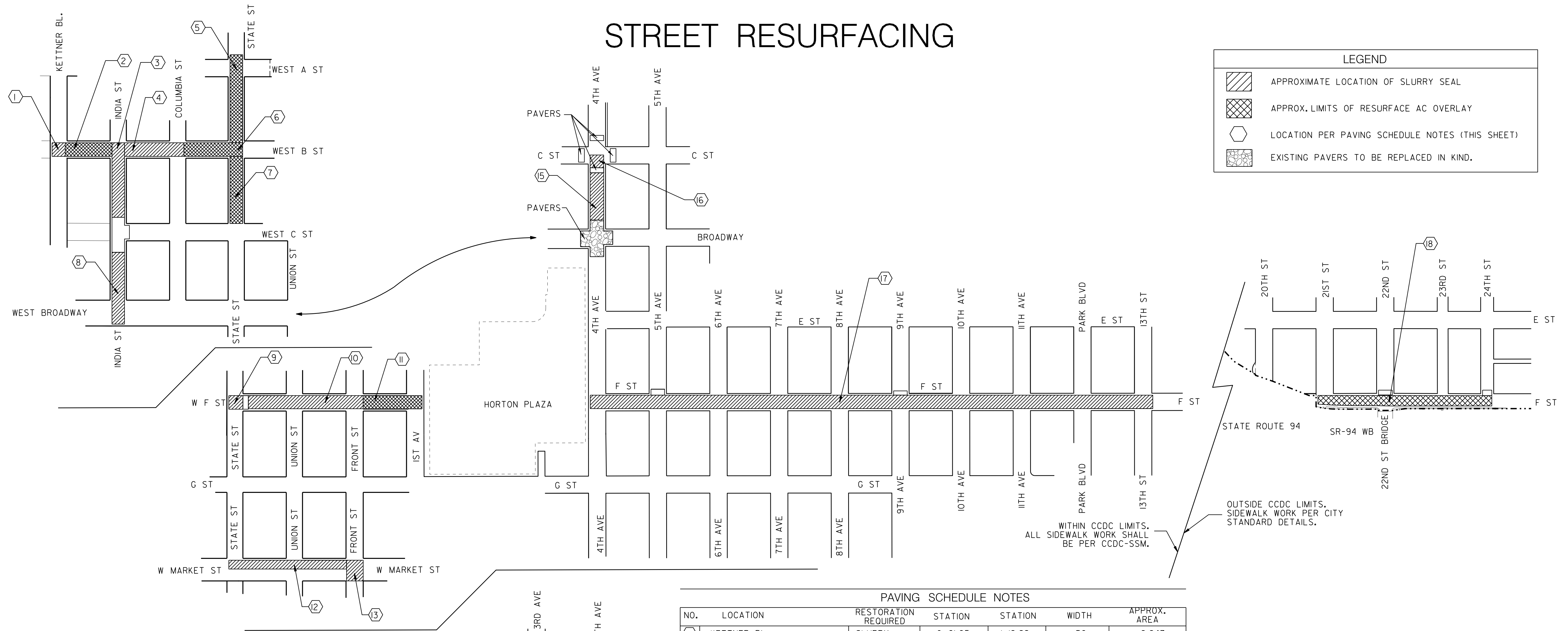
SEWER AND WATER GROUP 957			
CURB RAMP DETAILS			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 21 OF 28 SHEETS		WATER WBS B11154	SEWER WBS B11152
APPROVED FOR CITY ENGINEER	DATE	DESIGNED BY	CHECKED BY
<i>W. J. ...</i>	2/13/13	JIM HAGHGOUY ASSOCIATE ENGINEER	ALI MOHAMMADIAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	AM/SS		
CONTRACTOR			DATE STARTED
INSPECTOR			DATE COMPLETED
			36689-21-D



CURB RAMP DETAILS



# STREET RESURFACING

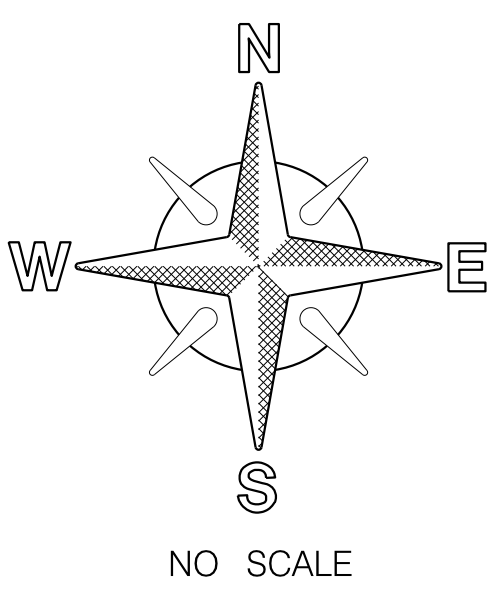


**LEGEND**

- APPROXIMATE LOCATION OF SLURRY SEAL
- APPROX. LIMITS OF RESURFACE AC OVERLAY
- LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)
- EXISTING PAVERS TO BE REPLACED IN KIND.

**PAVING SCHEDULE NOTES**

NO.	LOCATION	RESTORATION REQUIRED	STATION	STATION	WIDTH	APPROX. AREA
1	KETTNER BL	SLURRY	0+61.05	1+19.99	50	2,947
2	WEST B ST	AC OVERLAY	1+19.99	3+39.41	50	10,971
3	INDIA ST	SLURRY	0+68.65	1+40	50	3,567.50
4	WEST B ST	SLURRY	1+25.15	3+51.56	50	11,320.50
5	STATE ST	AC OVERLAY	4+44.47	7+14.97	VARIES	14,200.30
6	WEST B ST	AC OVERLAY	3+51.56	6+84.82	VARIES	13,601.77
7	STATE ST	AC OVERLAY	0+55.88	3+95.47	50	16,979.50
8	INDIA ST	SLURRY	0+70.99	3+27.42	50	12,821.50
9	STATE ST & W F ST	SLURRY	0+64.32	1+15.64	50	2,566.00
10	WEST F ST	SLURRY	1+23.01	6+90	50	28,349.50
11	WEST F ST	AC OVERLAY	6+90	9+71.75	50	14,087.50
12	W MARKET ST	SLURRY	0+68.01	6+30.39	VARIES	36,593.33
13	W MARKET ST & FRONT ST	SLURRY	6+30.39	7+06.98	60	4,595.40
14	3RD AVE	SLURRY	0+50.63	6+97.90	50	32,363.50
15	4TH AVE	SLURRY	1+30.52	4+25.90	50	14,769.00
16	4TH AVE	SLURRY	4+52.42	4+89.87	40	1,872.50
17	F ST	SLURRY	0+61.84	24+97.48	VARIES	125,520.24
18	F ST	AC OVERLAY	0+71.27	8+72.12	VARIES	4,177.91
TOTAL AREA OF SLURRY SEAL						277,286 SF
TOTAL AREA OF RESURFACE AC						74,018 SF

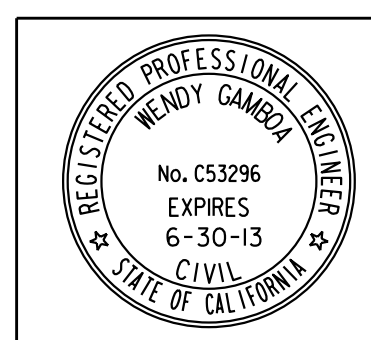


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**SEWER AND WATER GROUP 957**

**STREET RESURFACING**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 22 OF 28 SHEETS		WATER WBS B11154 SEWER WBS B11152
FOR CITY ENGINEER	DATE 2/13/13	PROJECT MANAGER JIM HAGGOLY
DESCRIPTION ORIGINAL	BY AM/SS	APPROVED
DATE		
FILMED		
CHECKED BY ALI MOHAMMADIAN PROJECT ENGINEER		SEE SHEETS CCS27 COORDINATE
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
		36689-22-D



STREET RESURFACING

# WORK BY CITY FORCES

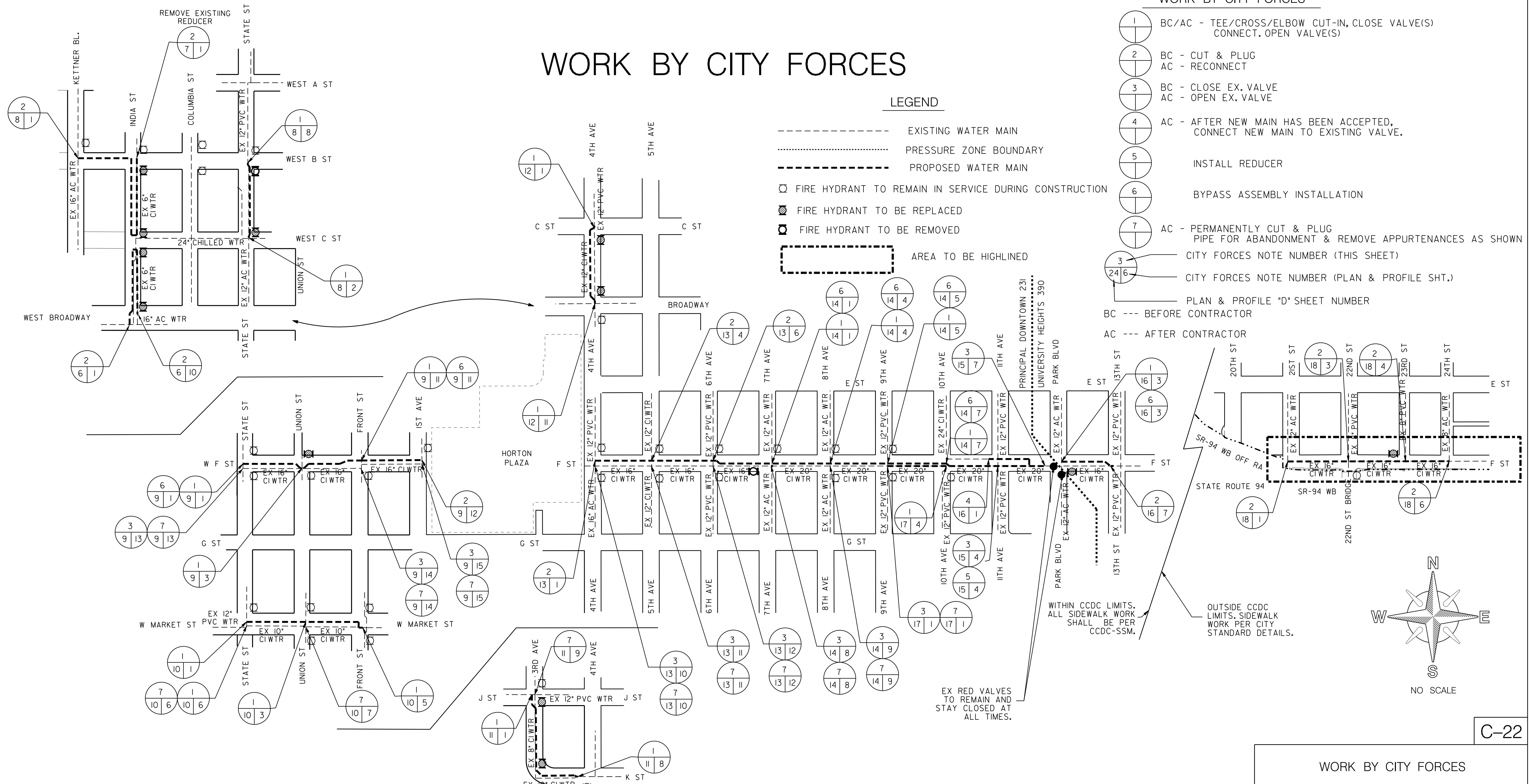
## LEGEND

- EXISTING WATER MAIN
- ..... PRESSURE ZONE BOUNDARY
- PROPOSED WATER MAIN
- FIRE HYDRANT TO REMAIN IN SERVICE DURING CONSTRUCTION
- ⊗ FIRE HYDRANT TO BE REPLACED
- ⊘ FIRE HYDRANT TO BE REMOVED

----- AREA TO BE HIGHLIGHTED

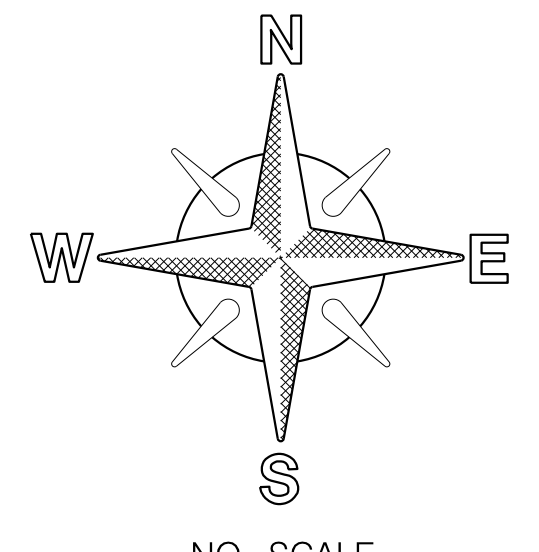
## WORK BY CITY FORCES

- 1 BC/AC - TEE/CROSS/ELBOW CUT-IN, CLOSE VALVE(S)  
CONNECT, OPEN VALVE(S)
- 2 BC - CUT & PLUG  
AC - RECONNECT
- 3 BC - CLOSE EX. VALVE  
AC - OPEN EX. VALVE
- 4 AC - AFTER NEW MAIN HAS BEEN ACCEPTED,  
CONNECT NEW MAIN TO EXISTING VALVE.
- 5 INSTALL REDUCER
- 6 BYPASS ASSEMBLY INSTALLATION
- 7 AC - PERMANENTLY CUT & PLUG  
PIPE FOR ABANDONMENT & REMOVE APPURTENANCES AS SHOWN
- 3 CITY FORCES NOTE NUMBER (THIS SHEET)
- 24/6 CITY FORCES NOTE NUMBER (PLAN & PROFILE SHT.)
- PLAN & PROFILE "D" SHEET NUMBER
- BC --- BEFORE CONTRACTOR
- AC --- AFTER CONTRACTOR



WITHIN CCDC LIMITS,  
ALL SIDEWALK WORK  
SHALL BE PER  
CCDC-SSM.

OUTSIDE CCDC  
LIMITS, SIDEWALK  
WORK PER CITY  
STANDARD DETAILS.



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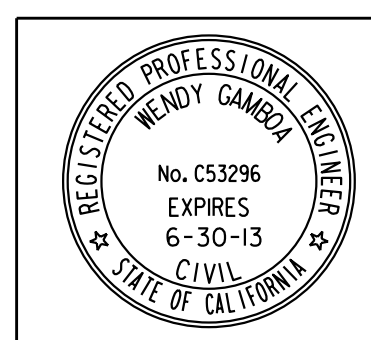
SHT	CONTRACTOR FURNISHED MATERIALS FOR CITY FORCES WORK										12" BV	12" ELBOW	STUB OUT							
	CROSS	TEE			REDUCER															
	20" X 24"	20" X 12"	16" X 12"	12" X 12"	16" X 16"	12" X 12"	24" X 12"	20" X 16"	16" X 12"	12" X 10"										
8											3									
9											2		70'							
10						2					10		20'	30'						
11											2									
12																				
14	1	2	1								6	2	6	2						
15														20'						
16											1			40'						
17											2			80'						
TOTAL	1	2	2	1	2	5	1	3	2	1	26	8	6	2	3	1	20'	210'	50'	5'

NOTE:  
CITY FORCES TO INSTALL WATER METERS  
AS SHOWN ON DETAILS IN SHEETS 25 & 26.

**WORK BY CITY FORCES**

**SEWER AND WATER GROUP 957**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 23 OF 28 SHEETS		WATER WBS B1154	SEWER WBS B1152
FOR CITY ENGINEER: <i>[Signature]</i> 2/13/13		DATE	
PROJECT MANAGER: JIM HAGGOUY		PROJECT ENGINEER: ALI MOHAMMADIAN	
DESCRIPTION: ORIGINAL	BY: AM/SS	APPROVED:	DATE:
FILED:		SEE SHEETS	
SEE SHEETS		CCS27 COORDINATE	
SEE SHEETS		CCS83 COORDINATE	
CONTRACTOR:	DATE STARTED:	36689-23-D	
INSPECTOR:	DATE COMPLETED:		



WORK BY CITY FORCES

## THRUST BLOCK AND ANCHOR TABLE FOR DESIGN PRESSURE

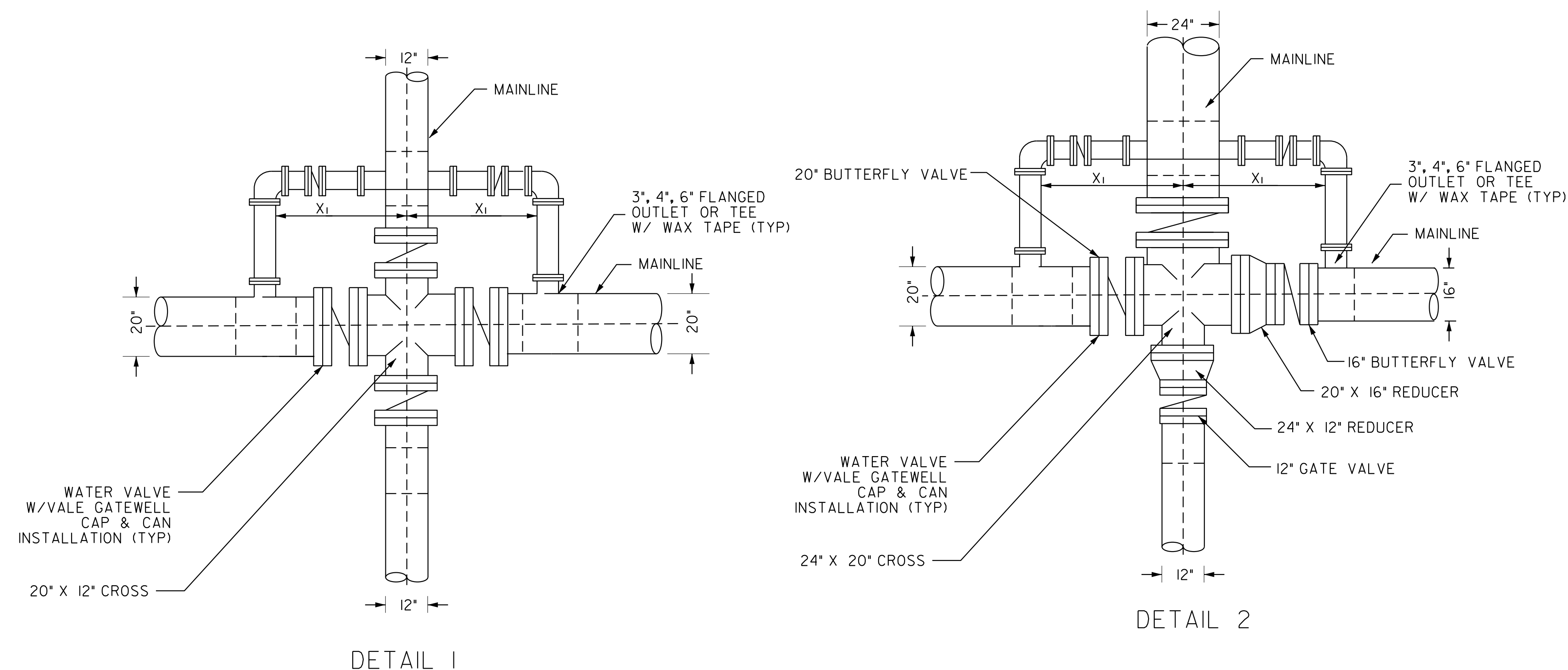
THRUST TABLE FOR 16" AND 20" WATER MAINS FOR DESIGN PRESSURE 305						
TYPE/ DIAM. OF PIPE	TYPE OF BLOCK	TYPE OF APPURTENANCE	DESIGN PRESSURE	TOTAL THRUST (lb)	ASSUMED SOIL CAPACITY	MINIMUM BEARING AREA (sq.ft.), SEE NOTE 3 BELOW OR VOLUME OF BLOCK (cu.ft.)
PVC / 16"	THRUST	45° BEND	305 lb/sq.in.	50,741 lb	1500 lb/sq.ft.	51 lb/sq.ft.
PVC / 16"	THRUST	TEE	305 lb/sq.in.	72,488 lb	1500 lb/sq.ft.	73 lb/sq.ft.
PVC / 16"	THRUST	CROSS	305 lb/sq.in.	72,488 lb	1500 lb/sq.ft.	73 lb/sq.ft.
PVC / 20"	THRUST	45° BEND	305 lb/sq.in.	78,194 lb	1500 lb/sq.ft.	78 lb/sq.ft.
PVC / 20"	THRUST	TEE	305 lb/sq.in.	111,706 lb	1500 lb/sq.ft.	112 lb/sq.ft.
PVC / 20"	THRUST	CROSS	305 lb/sq.in.	111,706 lb	1500 lb/sq.ft.	112 lb/sq.ft.

THRUST/ANCHOR TABLE FOR 16" AND 20" WATER MAINS FOR DESIGN PRESSURE 235						
TYPE/ DIAM. OF PIPE	TYPE OF BLOCK	TYPE OF APPURTENANCE	DESIGN PRESSURE	TOTAL THRUST (lb)	ASSUMED SOIL CAPACITY	MINIMUM BEARING AREA (sq.ft.), SEE NOTE 3 BELOW OR VOLUME OF BLOCK (cu.ft.)
PVC / 16"	THRUST	TEE	235 lb/sq.in.	55,881 lb	1500 lb/sq.ft.	56 sq.ft.
PVC / 16"	THRUST	45° HORIZONTAL BEND	235 lb/sq.in.	42,768 lb	1500 lb/sq.ft.	43 sq.ft.
PVC / 16"	ANCHOR	11.25° HORIZONTAL BEND	235 lb/sq.in.	10,953 lb	N/A	117 cu.ft.
PVC / 20"	THRUST	45° HORIZONTAL BEND	235 lb/sq.in.	65,908 lb	1500 lb/sq.ft.	66 sq.ft.
PVC / 20"	THRUST	CROSS	235 lb/sq.in.	55,881 lb	1500 lb/sq.ft.	56 sq.ft.

• The specific weight of concrete is 140 lb/cu.ft.  
Safety Factor = 1.5

**NOTES:**

1. REFER TO SPECIFICATIONS SECTION 306-1.2.14 FOR ADDITIONAL REQUIREMENTS.
2. FOR ESTIMATING THE QUANTITY FOR THRUST BLOCKS, THE DEPTH OF THE THRUST BLOCKS SHALL BE HALF OF THE TRENCH WIDTH PLUS 12" EMBEDMENT.



MAIN SIZE	BYPASS SIZE
16" TRANSMISSION	3"
> 16" AND < 36"	4"
> 36"	6"

- NOTE:**
1. BYPASS SHALL BE SAME CLASS AS MAINLINE PIPE.
  2. THE VALVE SHALL BE THE SAME AS THE BYPASS PIPE.
  3. SEE THE APPROVED WORKING DRAWINGS FOR X<sub>1</sub>.

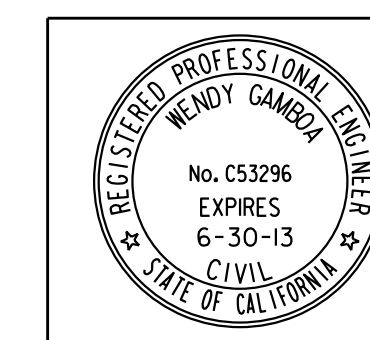
CROSS MAINLINE BYPASS

C-23

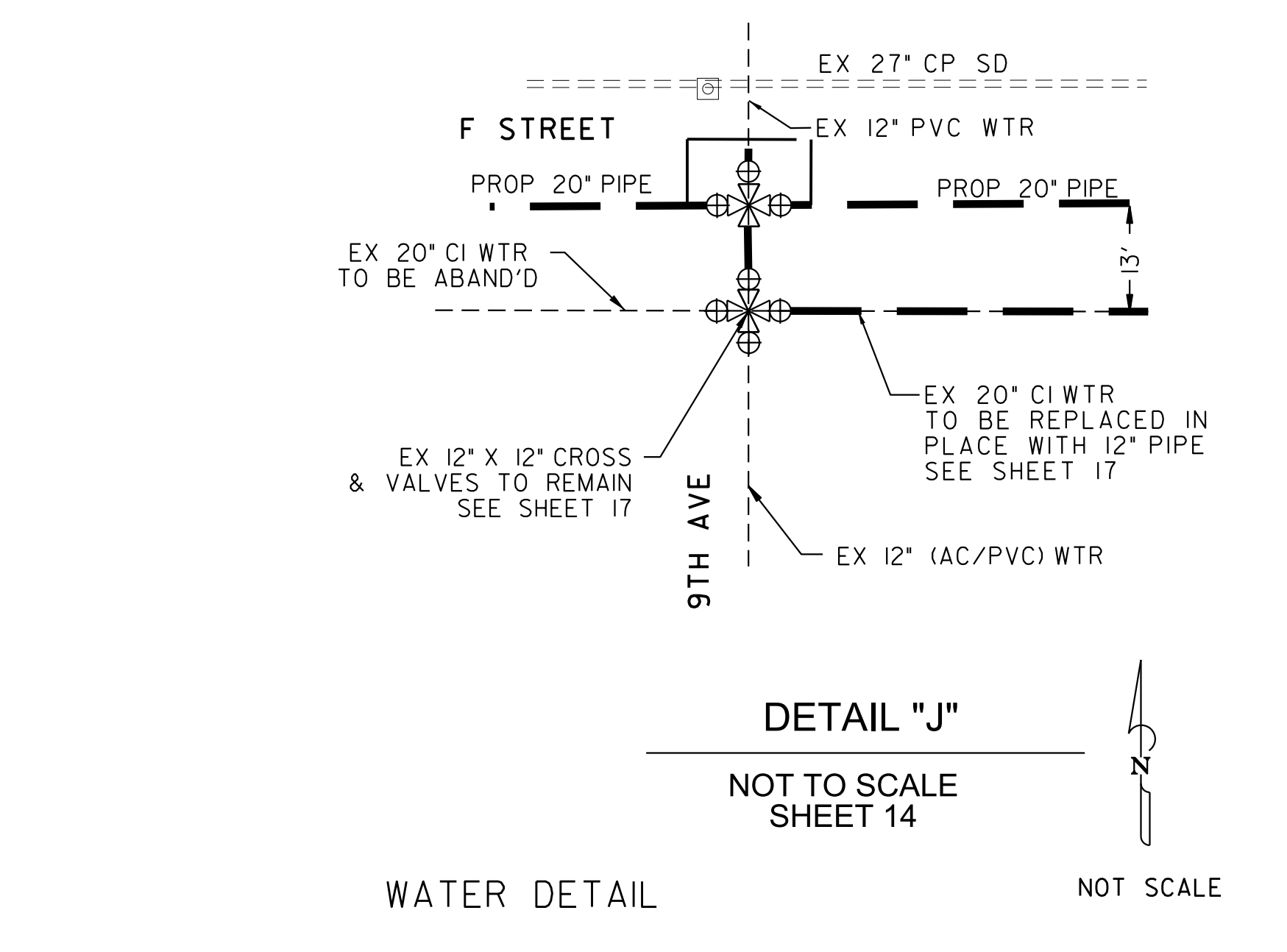
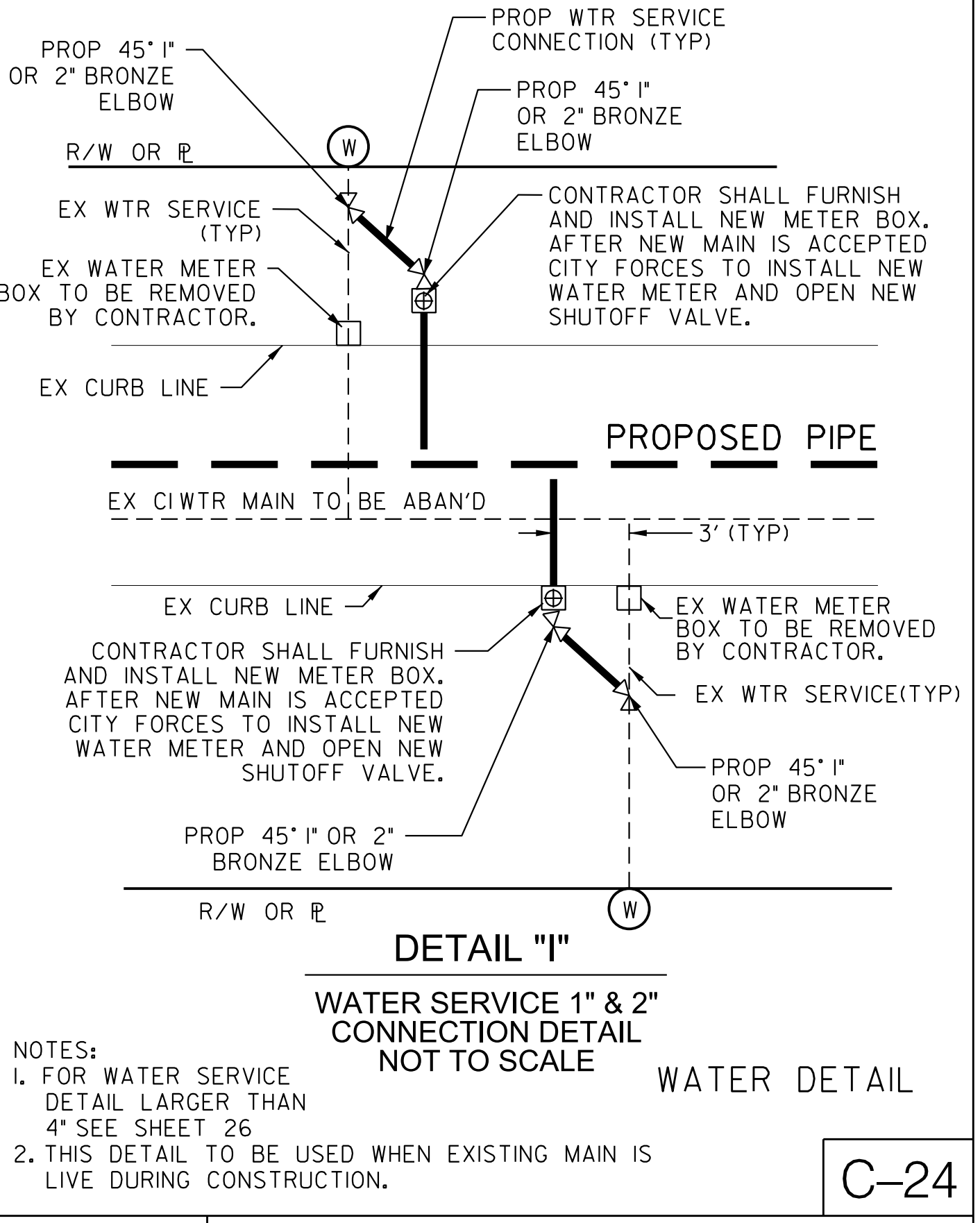
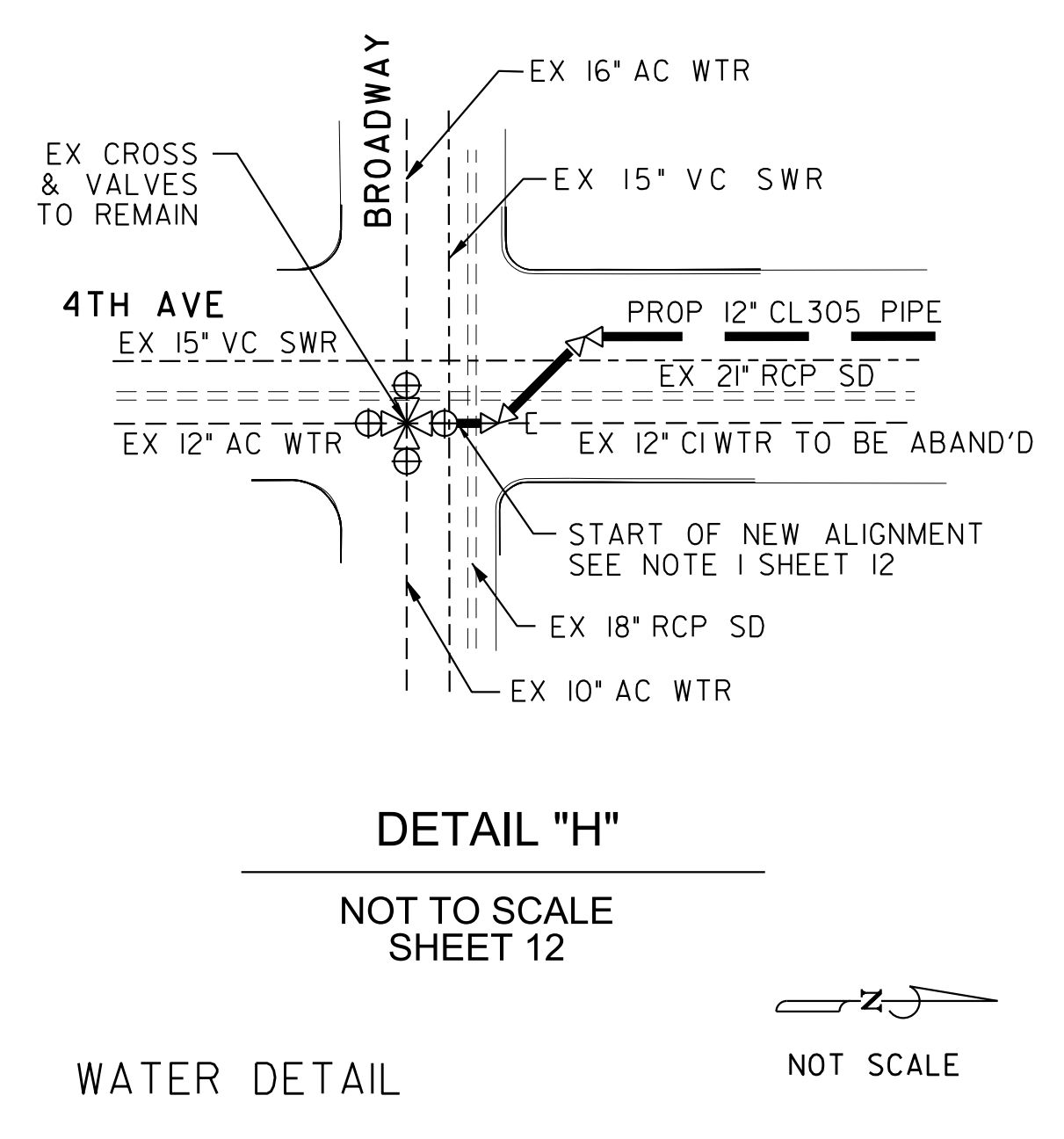
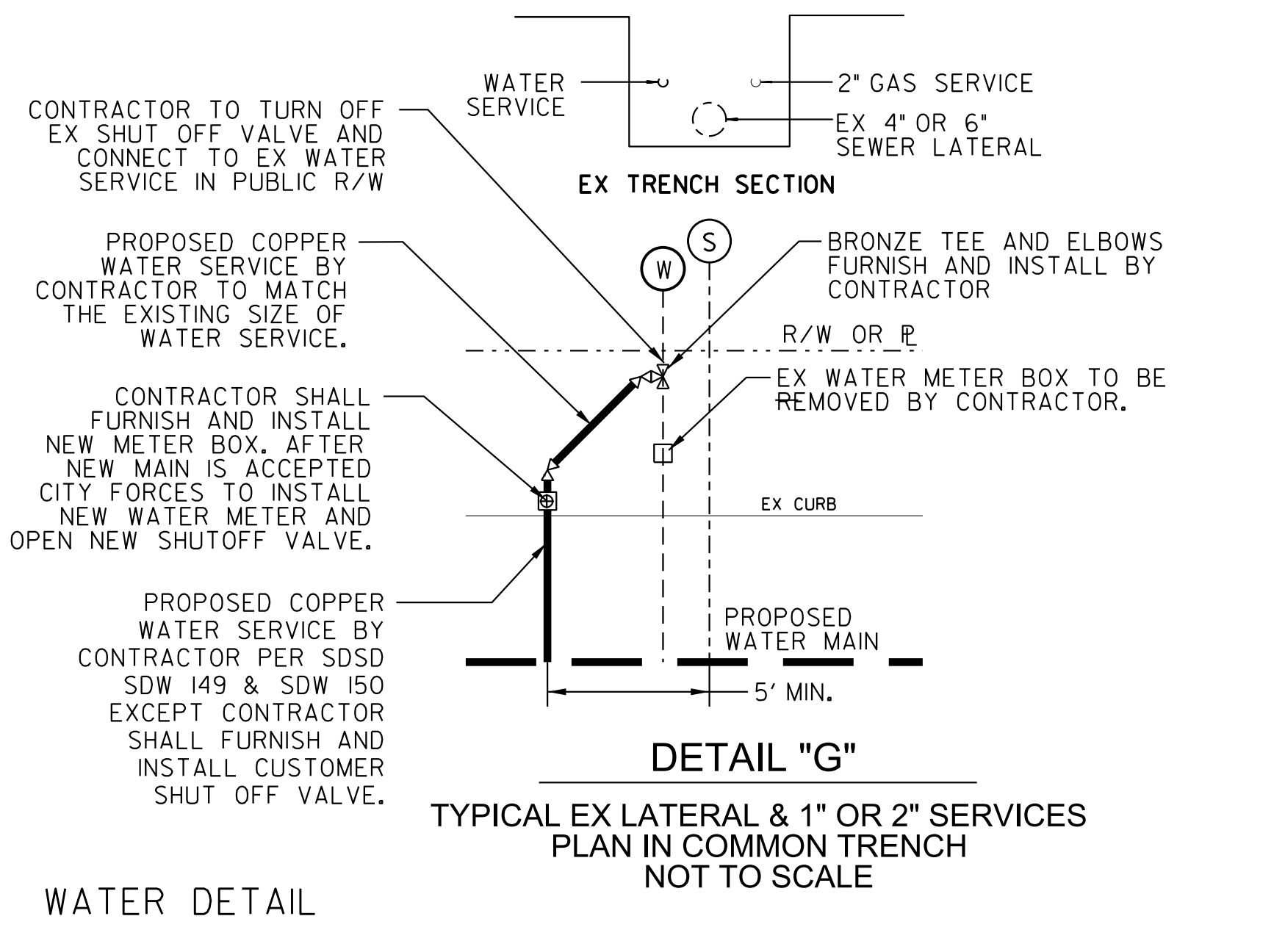
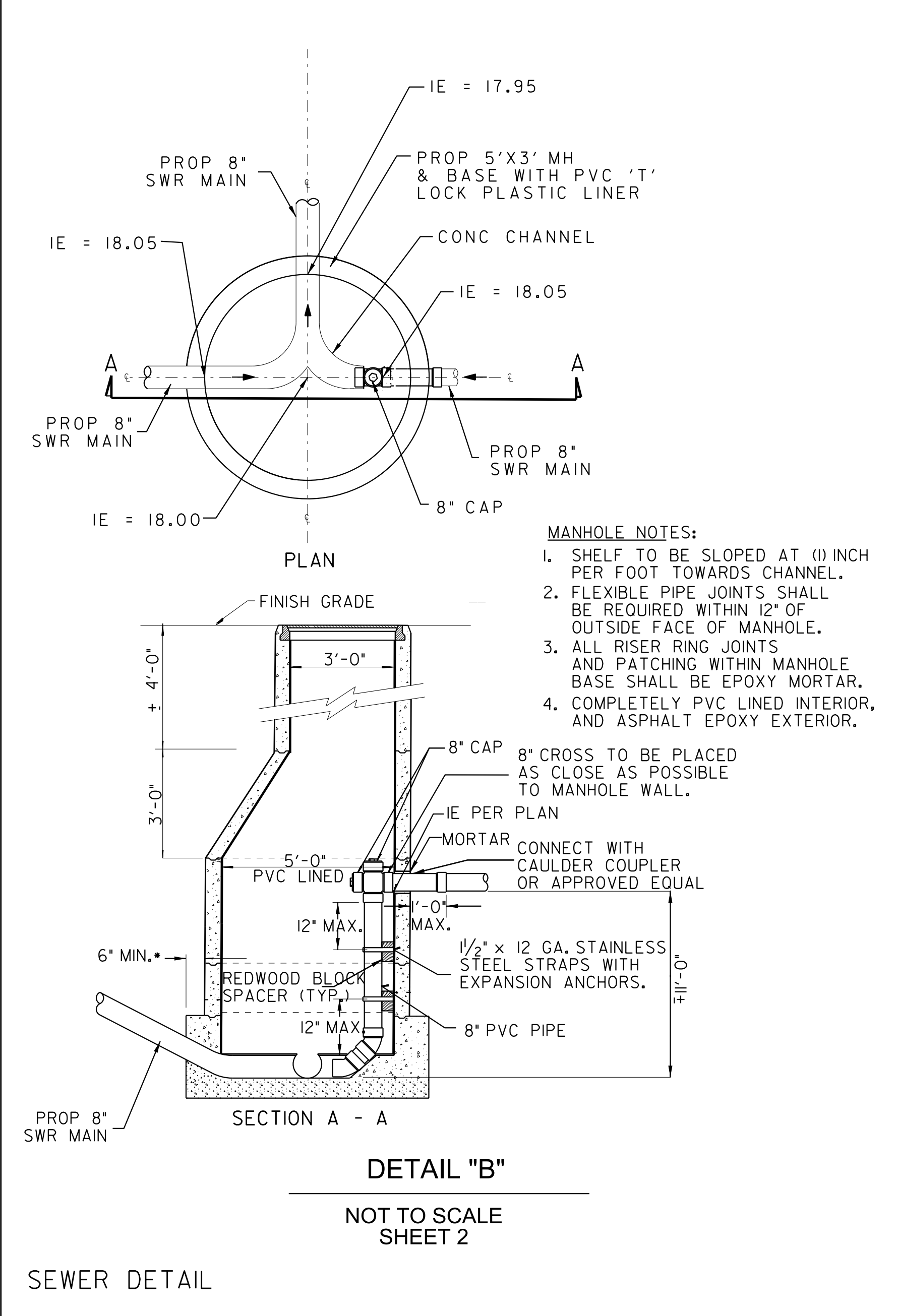
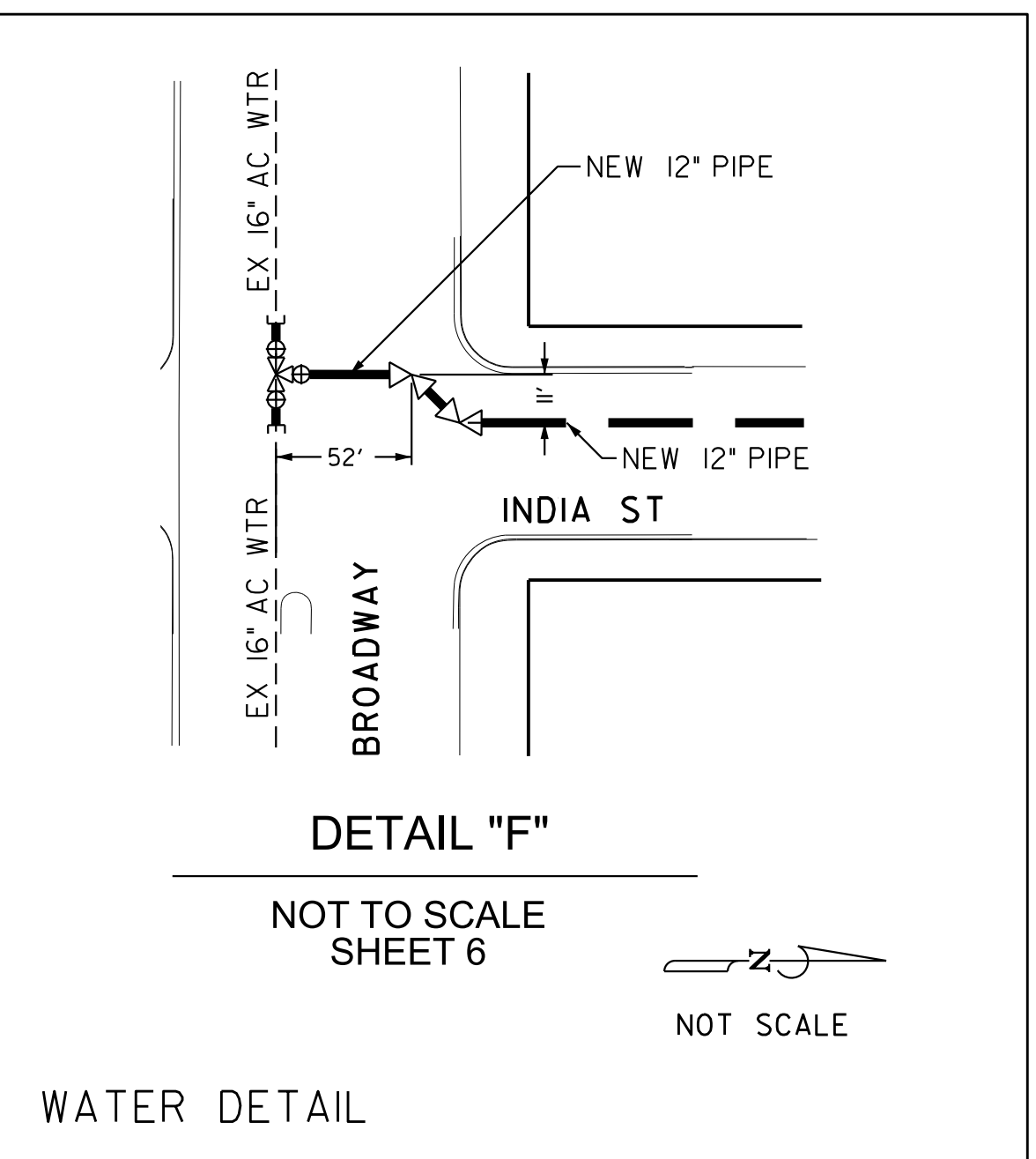
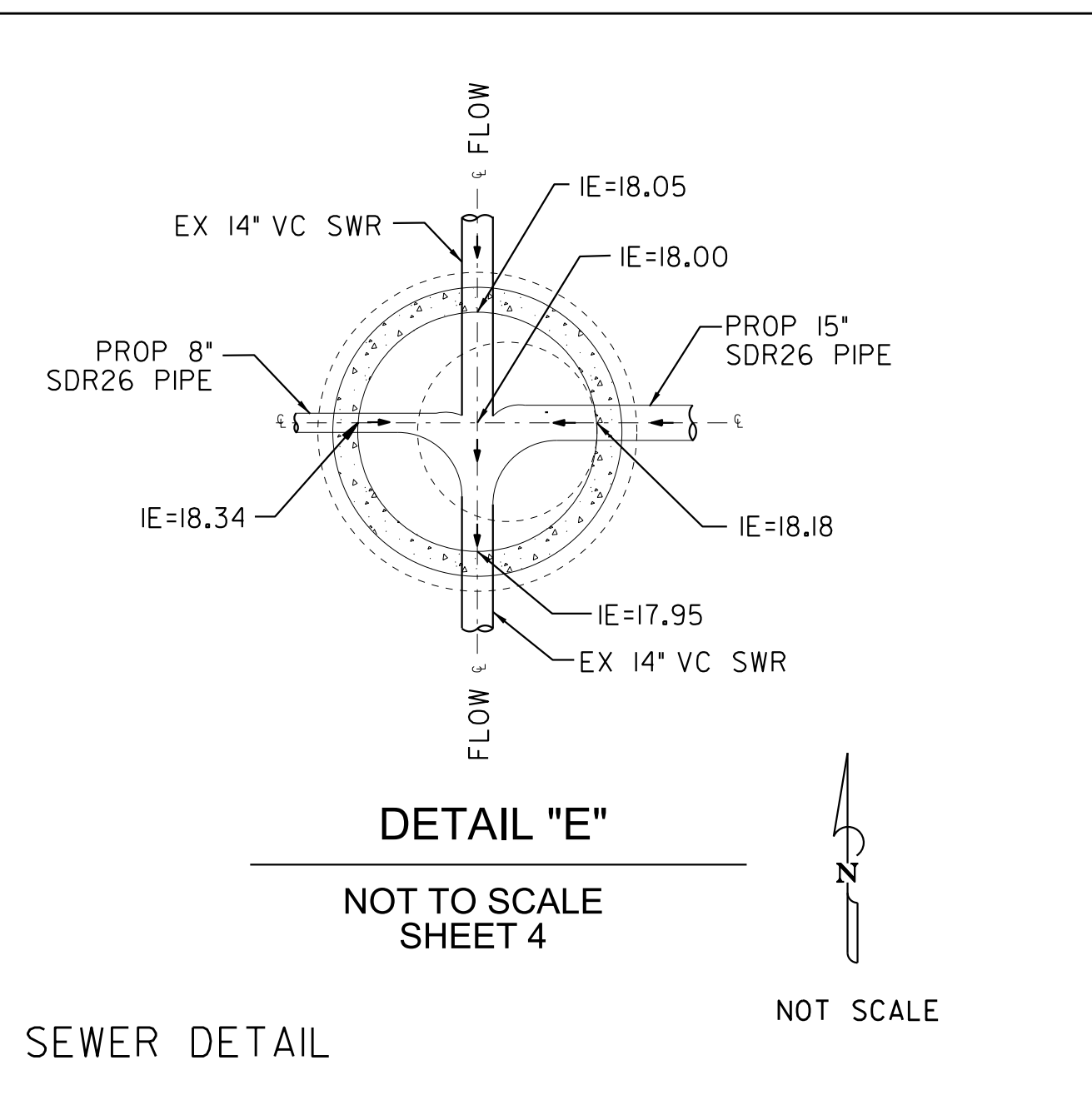
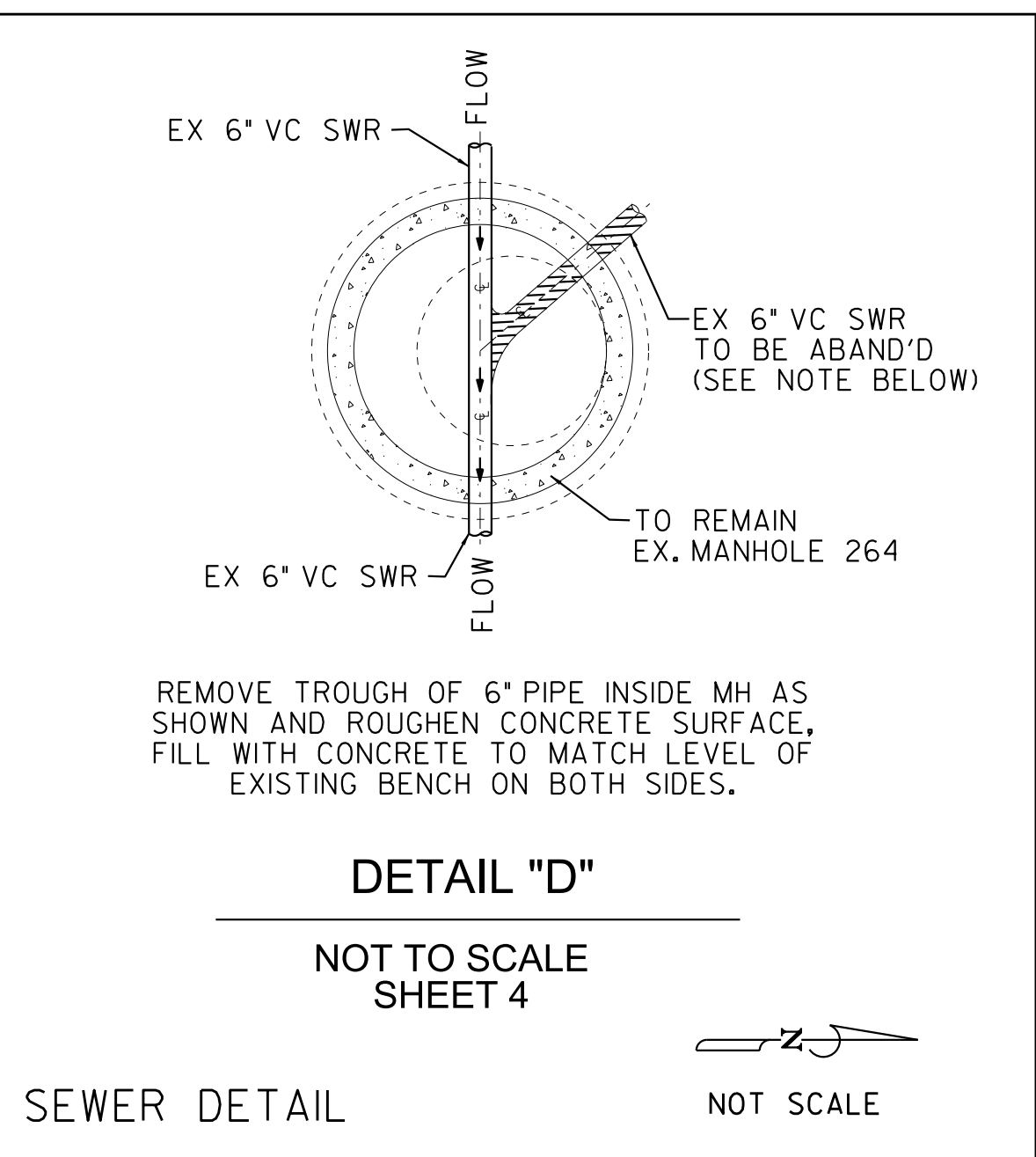
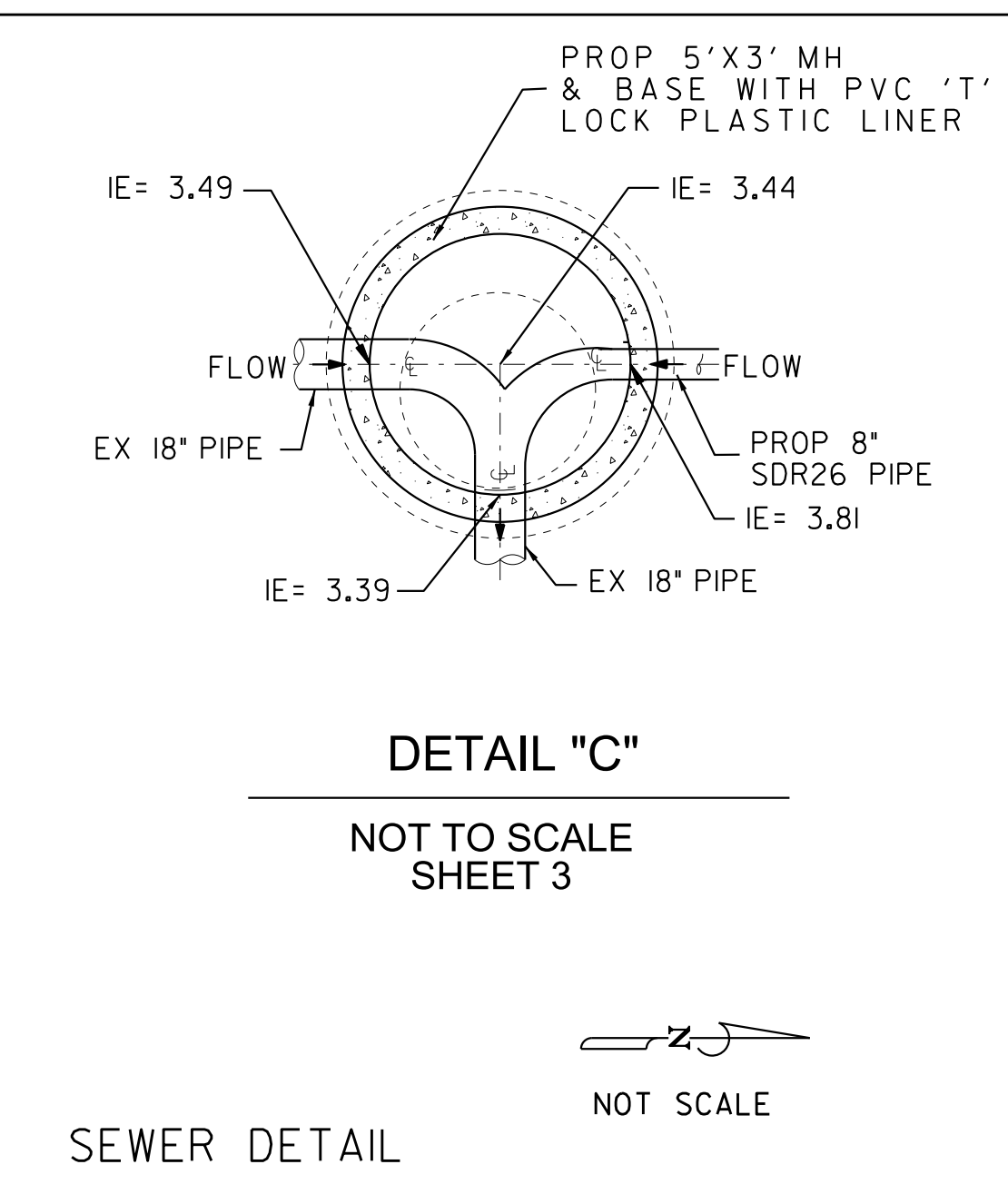
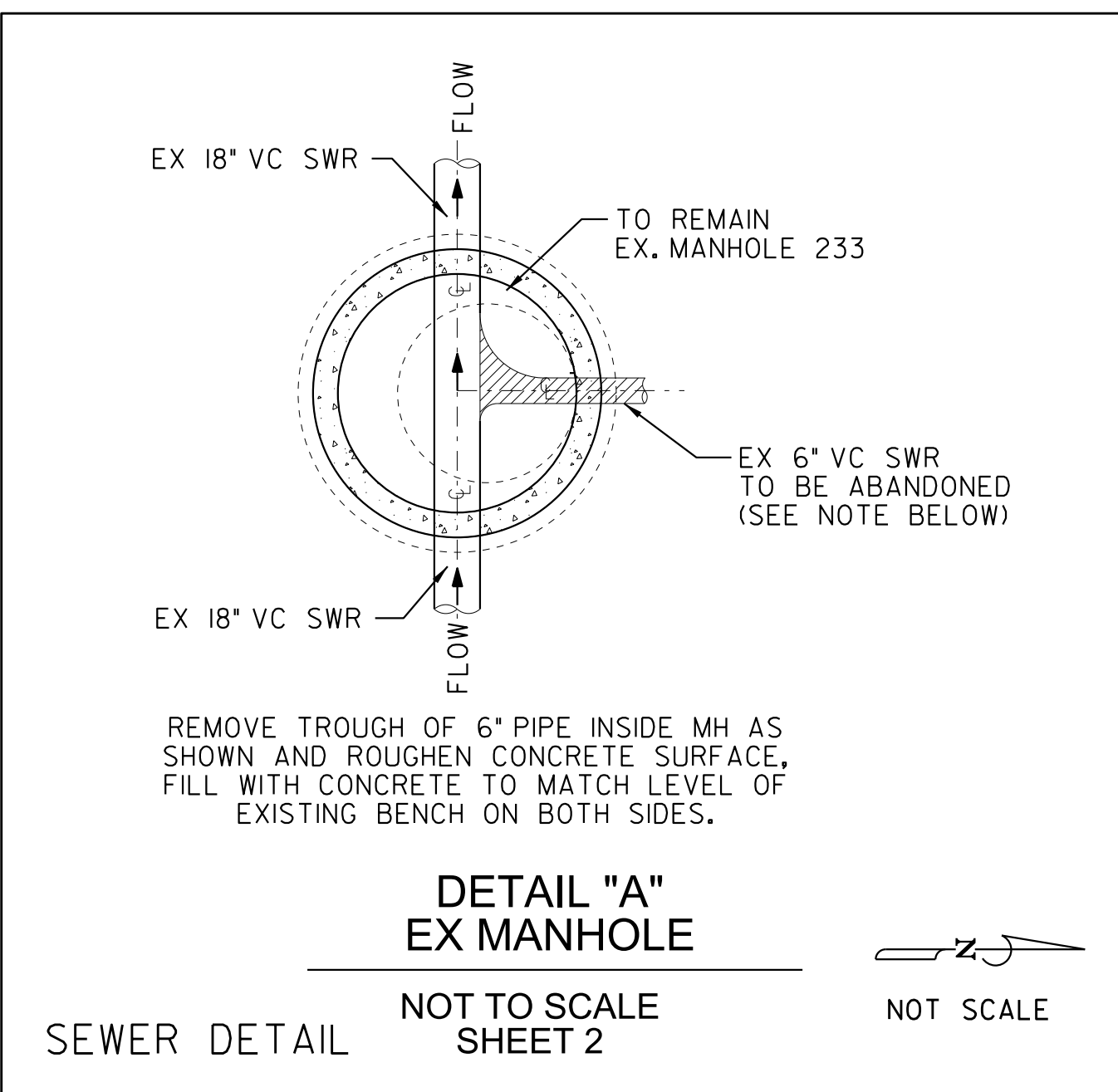
SEWER AND WATER GROUP 957

THRUST BLOCK & ANCHOR TABLE / CROSS MAINLINE BYPASS DETAILS

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 24 OF 28 SHEETS		WATER WBS: B11154 SEWER WBS: B11152
FOR CITY ENGINEER: <i>[Signature]</i>	DATE: 2/13/13	PROJECT MANAGER: JIM HAGGOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	PROJECT ENGINEER: ALI MOHAMMADIAN
CONTRACTOR: _____		DATE STARTED: _____
INSPECTOR: _____		DATE COMPLETED: _____
		36689-24-D



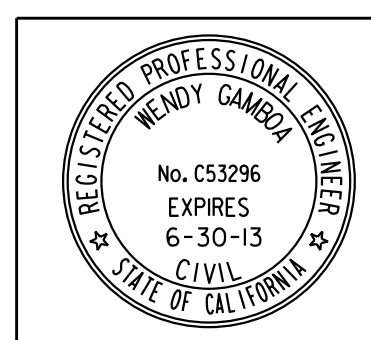




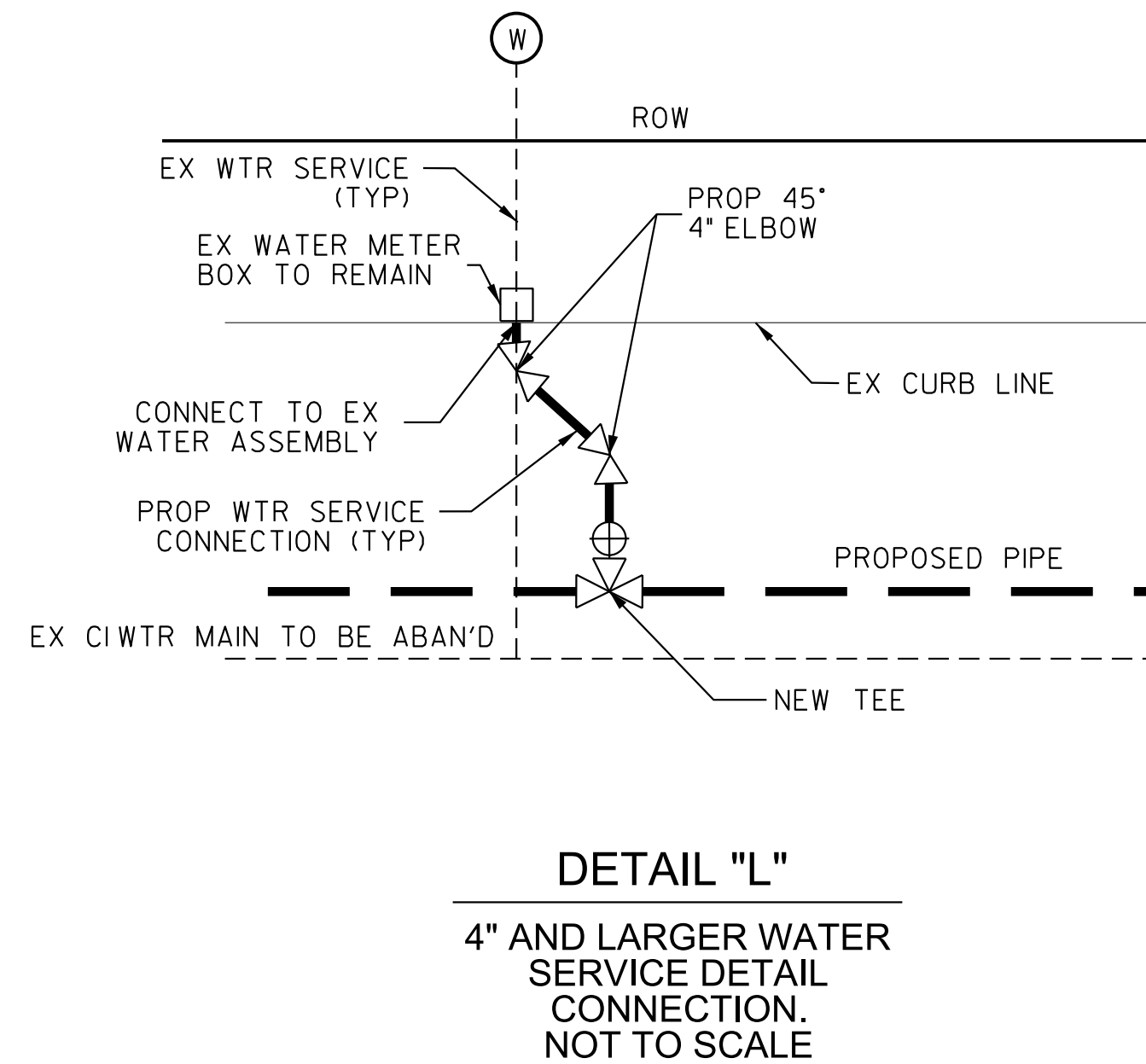
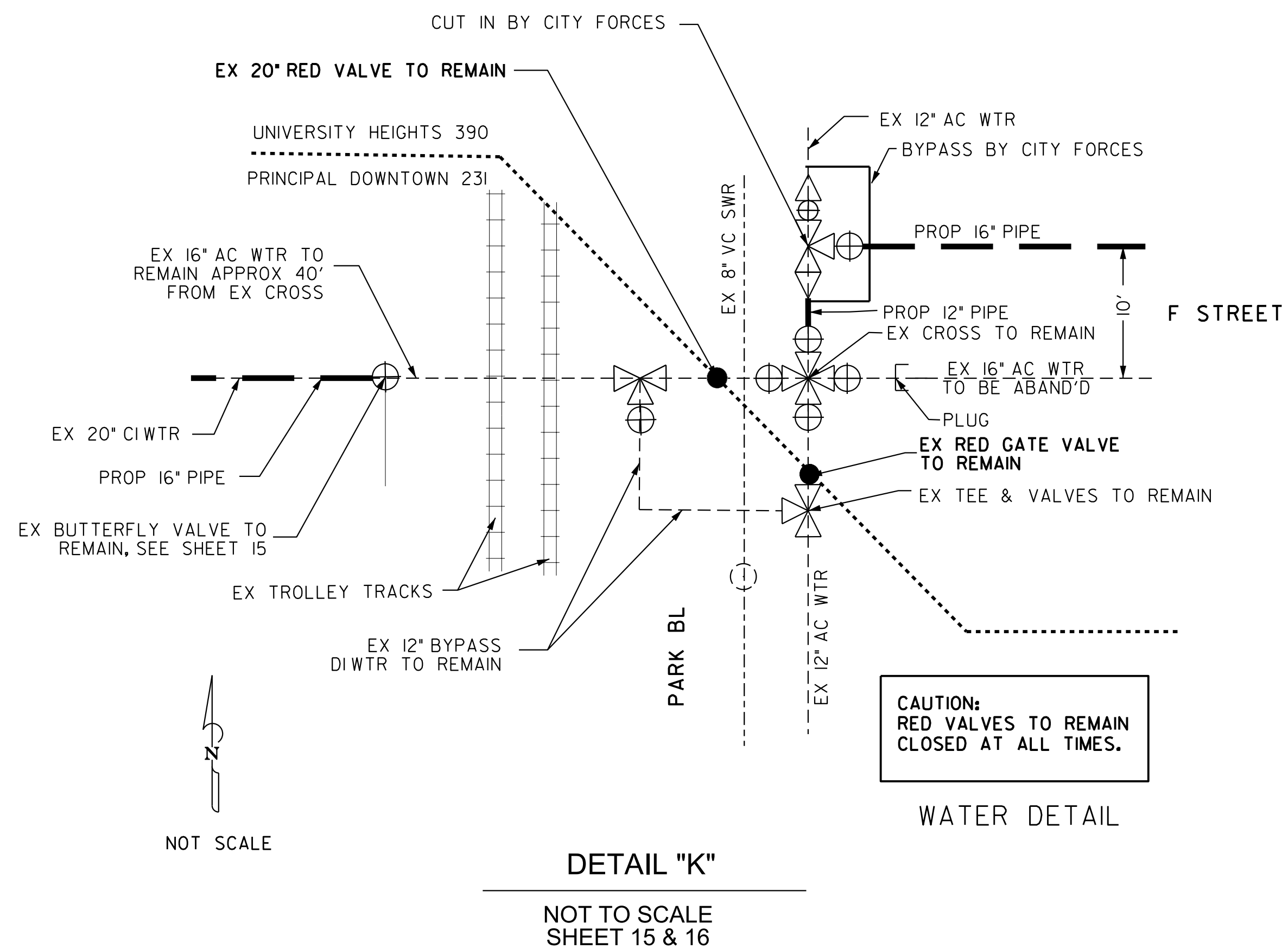
**SEWER AND WATER GROUP 957**  
SEWER AND WATER MISC DETAILS

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 25 OF 28 SHEETS		WATER WBS B11154 SEWER WBS B11152
FOR CITY ENGINEER	DATE 2/13/13	PROJECT MANAGER
DESCRIPTION ORIGINAL	BY AM/SS	APPROVED
DATE	FILED	
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED

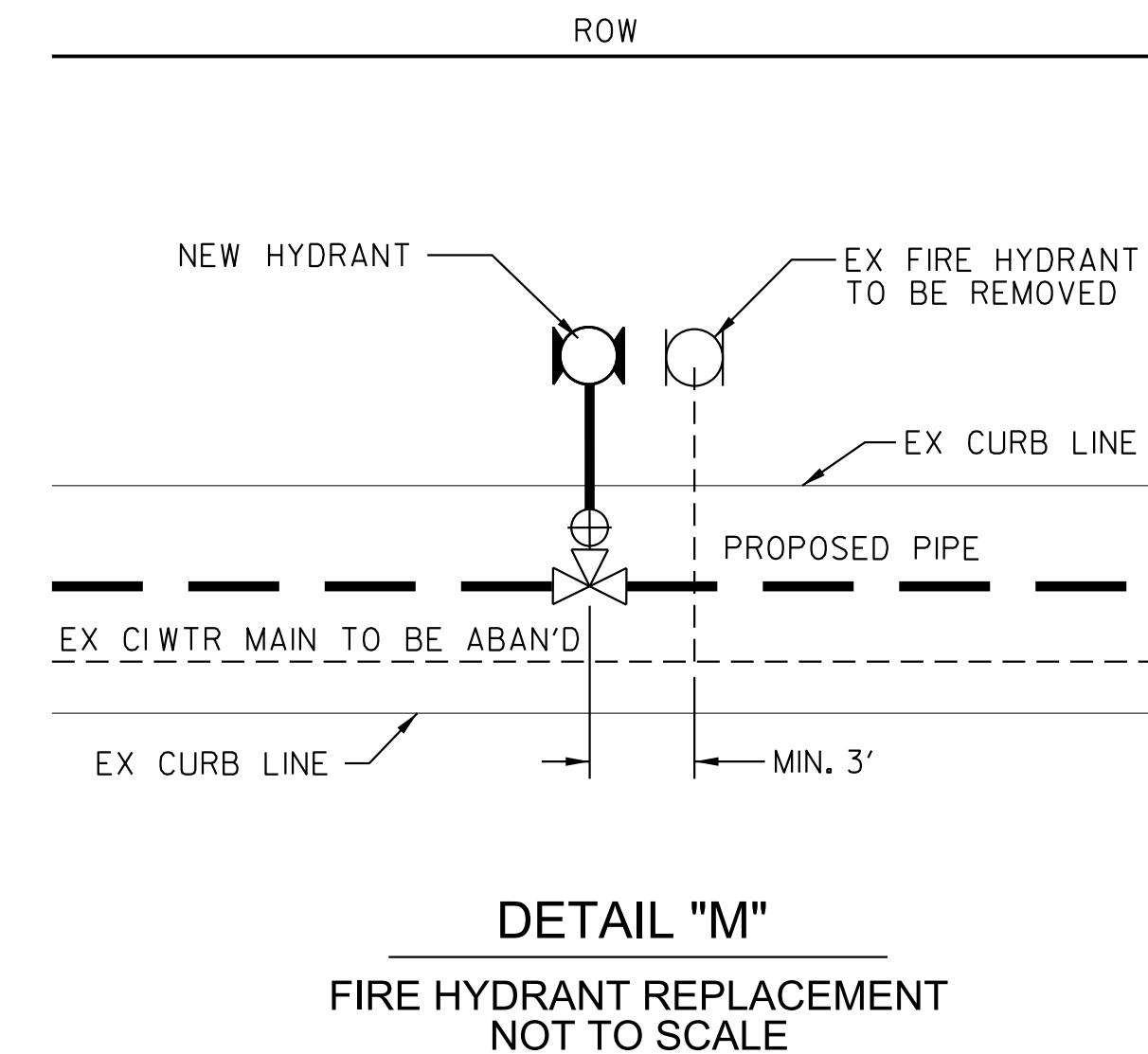
36689-25-D



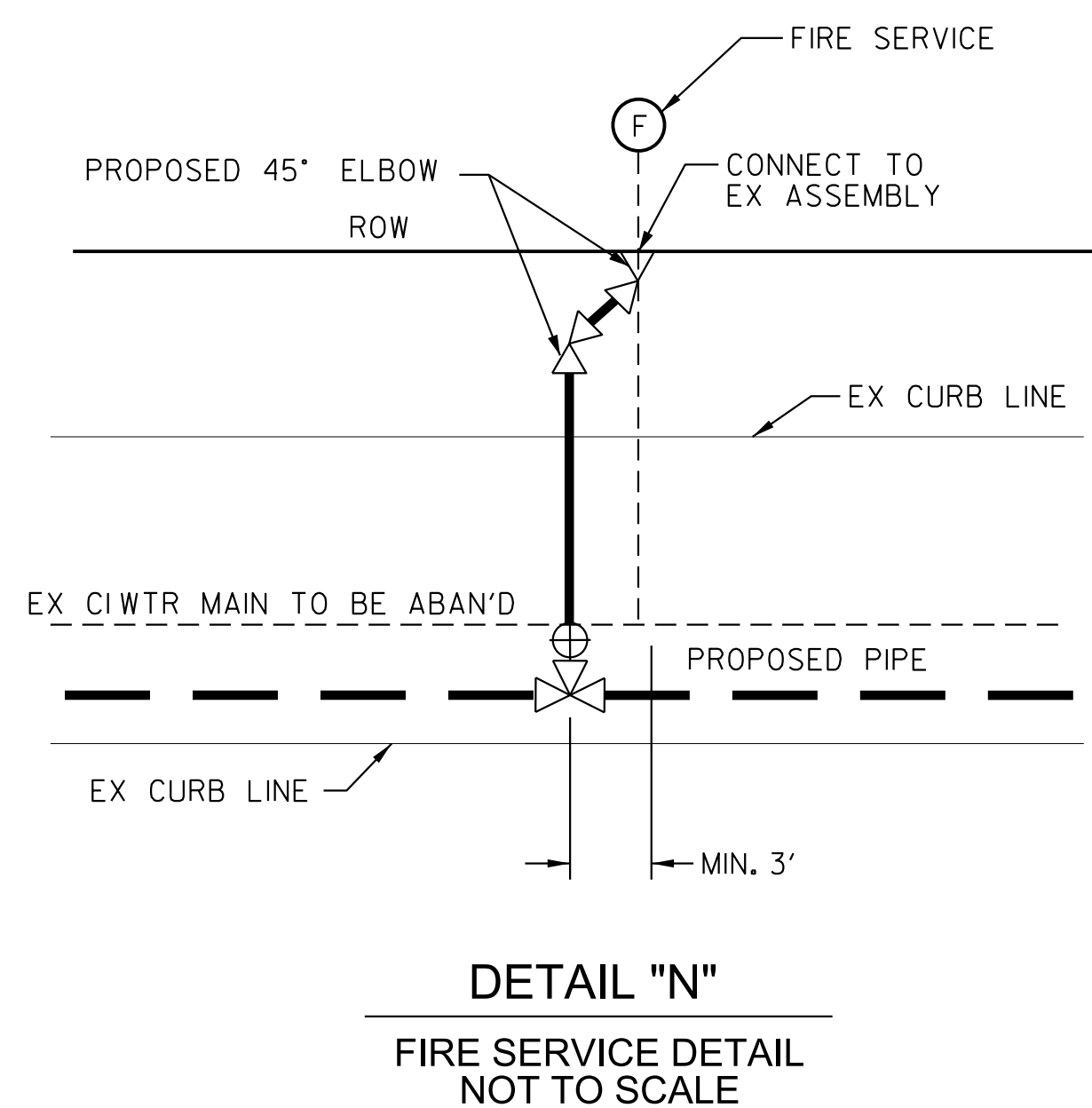
SEWER AND WATER MISC DETAILS



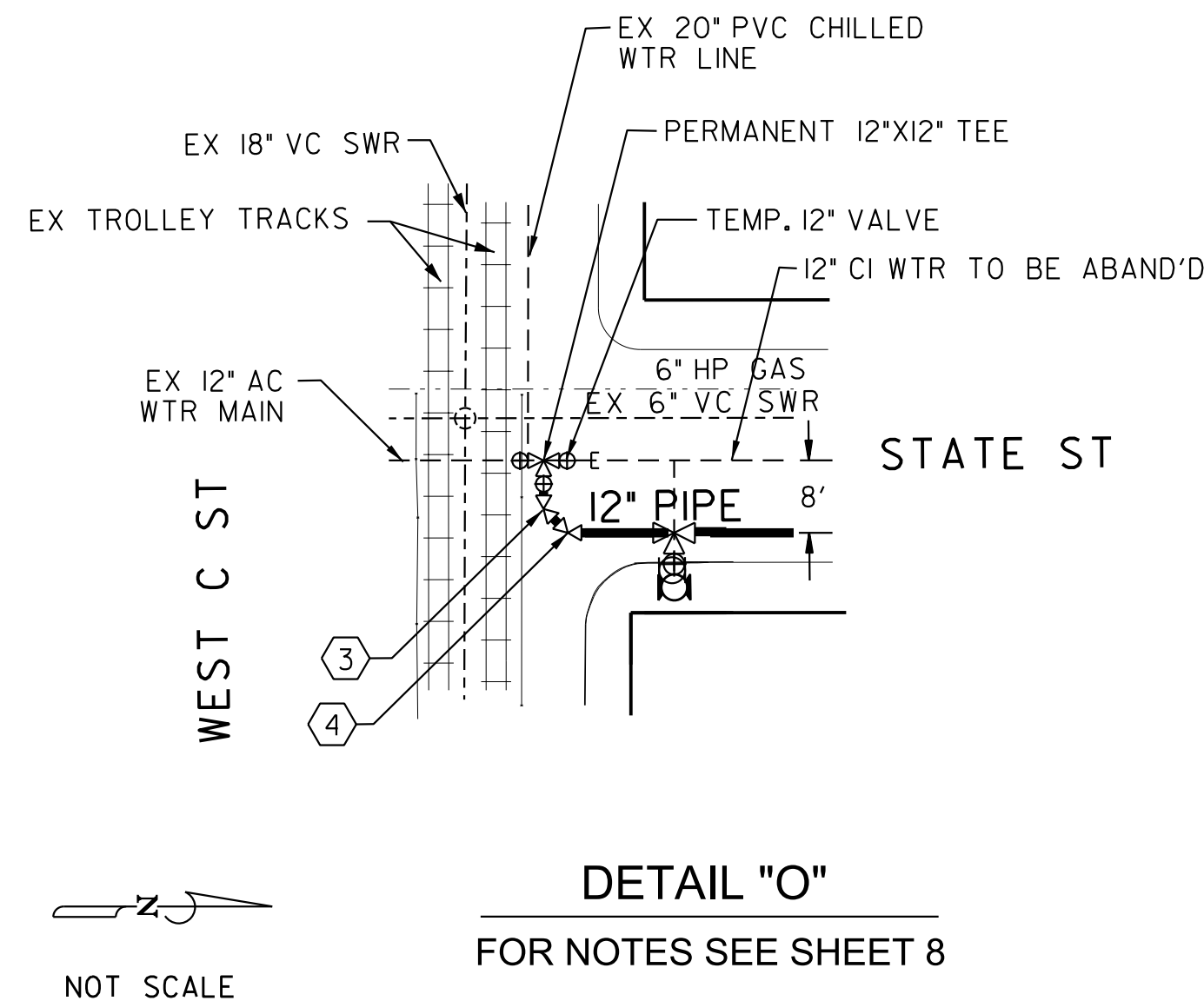
**NOTE:**  
THIS DETAIL TO BE USED WHEN EXISTING MAIN IS LIVE DURING CONSTRUCTION.



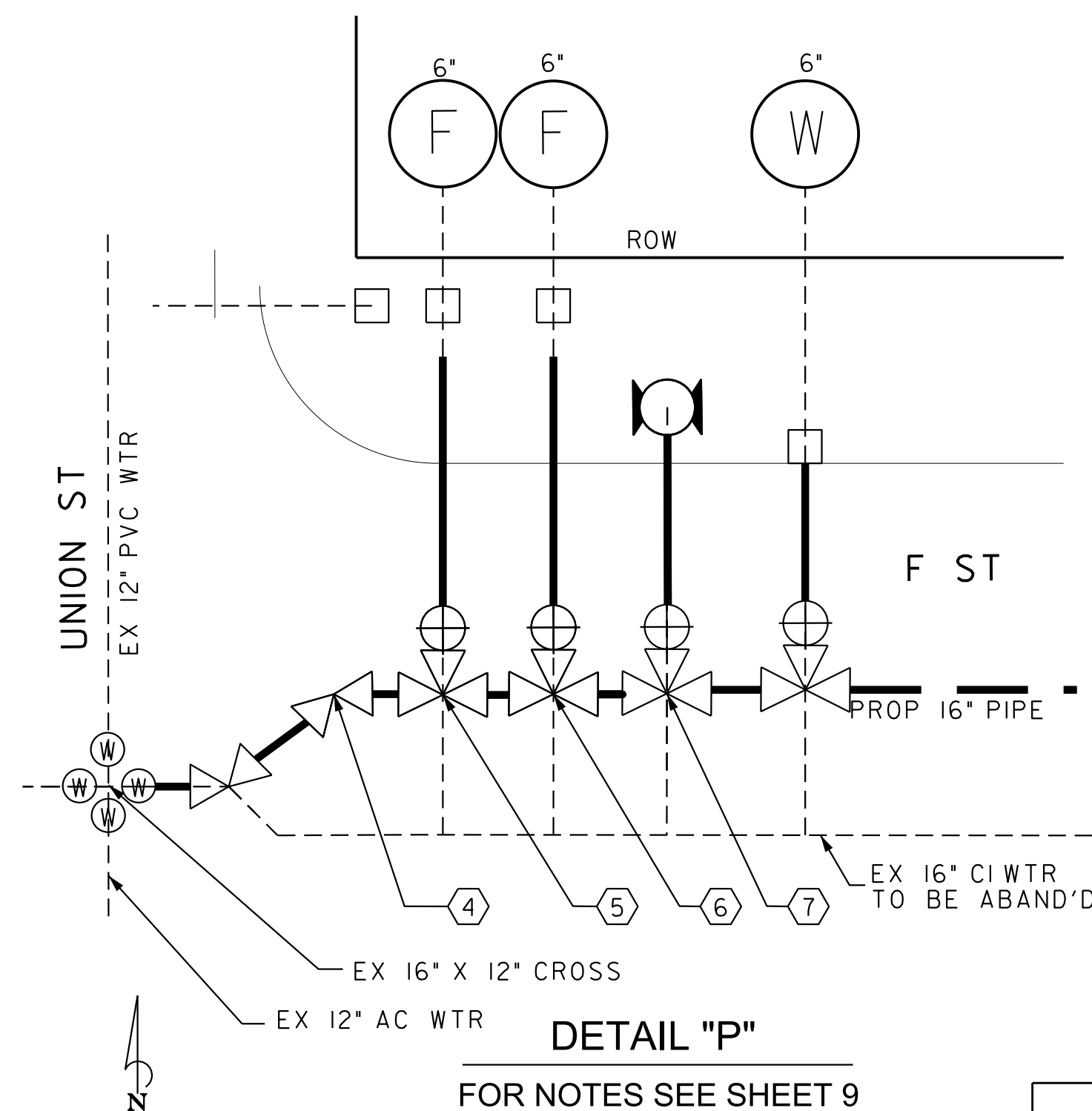
**NOTE:**  
THIS DETAIL TO BE USED WHEN EXISTING MAIN IS LIVE DURING CONSTRUCTION.



**NOTE:**  
THIS DETAIL TO BE USED WHEN EXISTING MAIN IS LIVE DURING CONSTRUCTION.

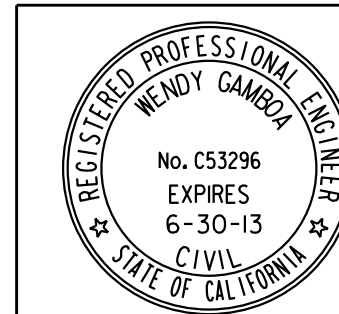


NOT SCALE

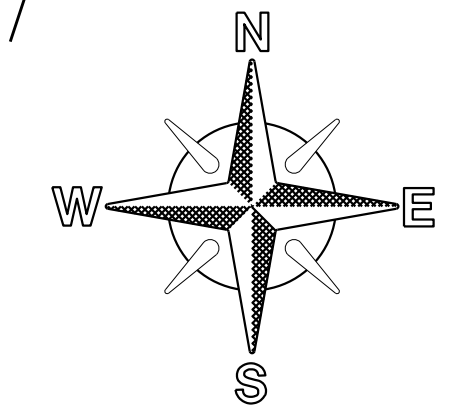
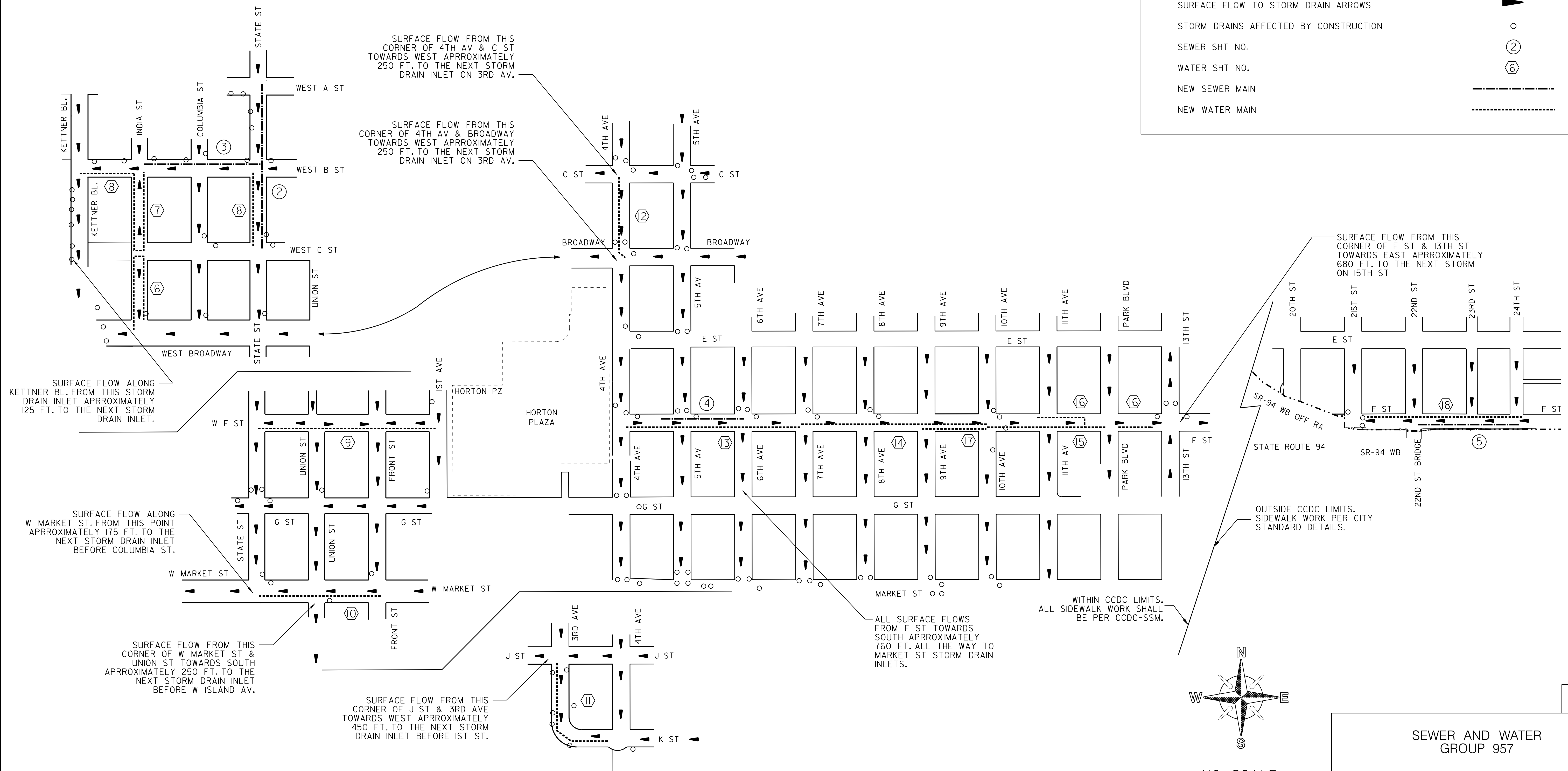
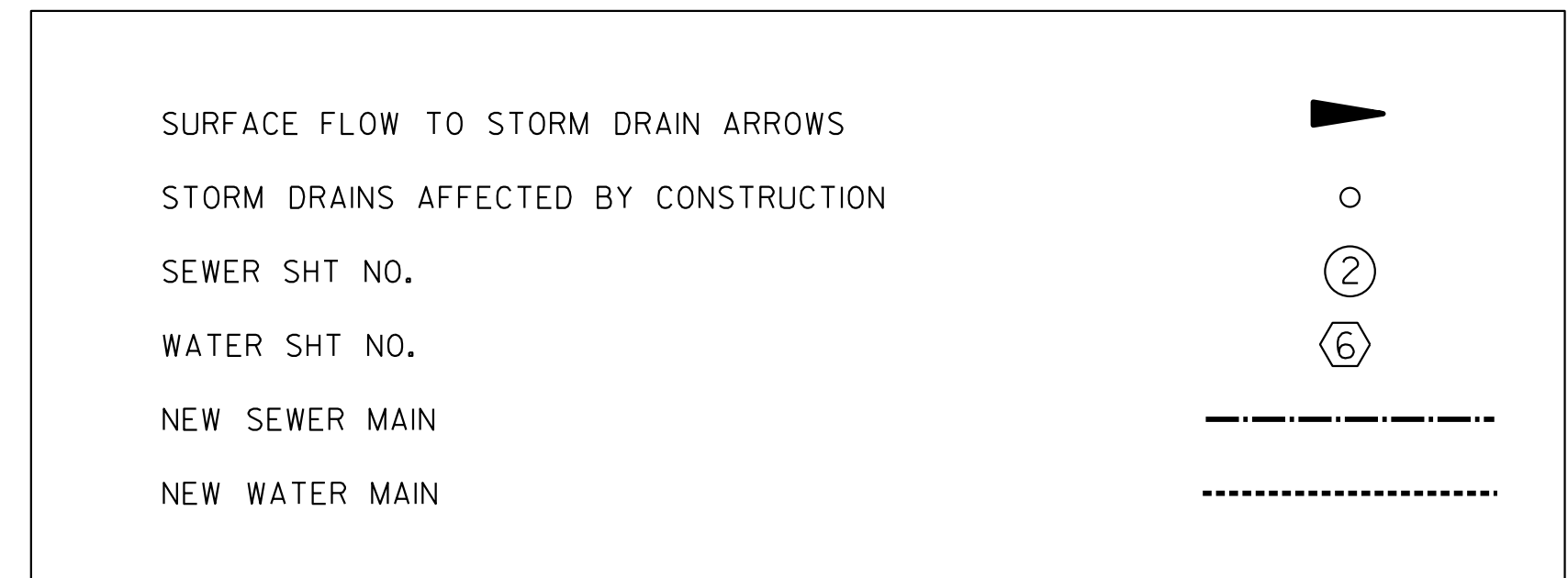


NOT SCALE

SEWER AND WATER GROUP 957				WATER MISC DETAILS	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 26 OF 28 SHEETS				WATER WBS	BIII54
FOR CITY ENGINEER				SEWER WBS	BIII52
DATE: 2/13/13				PROJECT MANAGER	JIM HAGGOUY
DESCRIPTION	BY	APPROVED	DATE	FILMED	CHECKED BY
ORIGINAL	AM/SS				ALI MOHAMMADIAN PROJECT ENGINEER
					SEE SHEETS CCS27 COORDINATE
					SEE SHEETS CCS83 COORDINATE
CONTRACTOR	DATE STARTED		DATE COMPLETED		36689-26-D



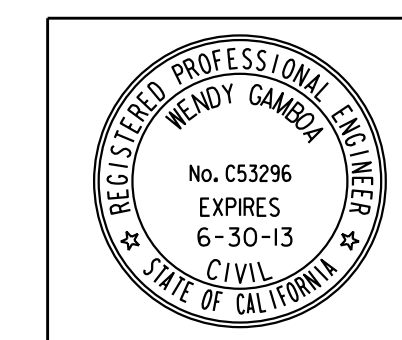
LEGEND



NO SCALE

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
2. DEVICES AT GENERAL LOCATIONS THROUGHOUT THE PROJECT SITE, THIS SITE PLAN IS TO BE USED IN CONJUNCTION WITH THE NARRATIVE SECTION OF THE WATER INLET PROTECTION REQUIRED AT ALL STORM DRAINS RECEIVING RUNOFF FROM DISTURBED
3. THE INFORMATION ON THE SITE PLAN IS ACCURATE FOR WATER POLLUTION CONTROL PURPOSES ONLY.

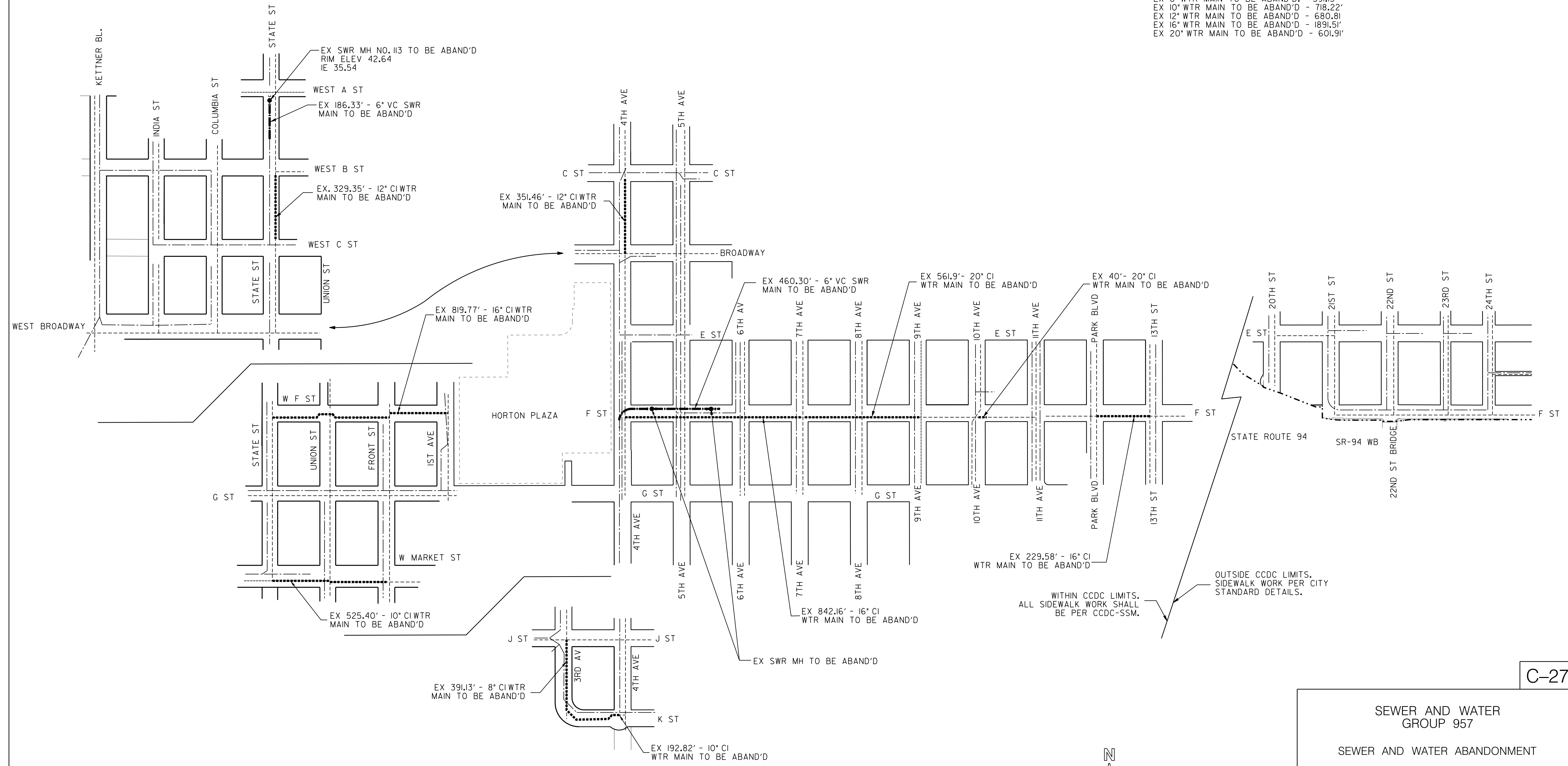


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SEWER AND WATER GROUP 957		WATER POLLUTION CONTROL SITE PLAN	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 27 OF 28 SHEETS		WATER WBS B11154	SEWER WBS B11152
FOR CITY ENGINEER <i>[Signature]</i> DATE 2/13/13		PROJECT MANAGER JIM HAGHGOUY	
DESCRIPTION ORIGINAL	BY AM/SS	APPROVED	DATE FILMED
CHECKED BY ALI MOHAMMADIAN PROJECT ENGINEER		SEE SHEETS CCS27 COORDINATE	
CONTRACTOR		DATE STARTED	DATE COMPLETED
INSPECTOR		36689-27-D	

WATER POLLUTION CONTROL SITE PLAN

EX SWR MH TO BE ABAND'D - 3  
 EX 6" VC SWR MAIN TO BE ABAND'D. - 646.63'  
 EX 8" WTR MAIN TO BE ABAND'D. - 391.13'  
 EX 10" WTR MAIN TO BE ABAND'D - 718.22'  
 EX 12" WTR MAIN TO BE ABAND'D - 680.81'  
 EX 16" WTR MAIN TO BE ABAND'D - 1891.51'  
 EX 20" WTR MAIN TO BE ABAND'D - 601.91'



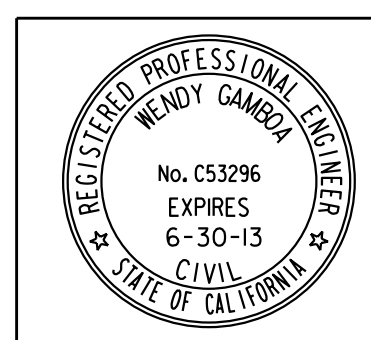
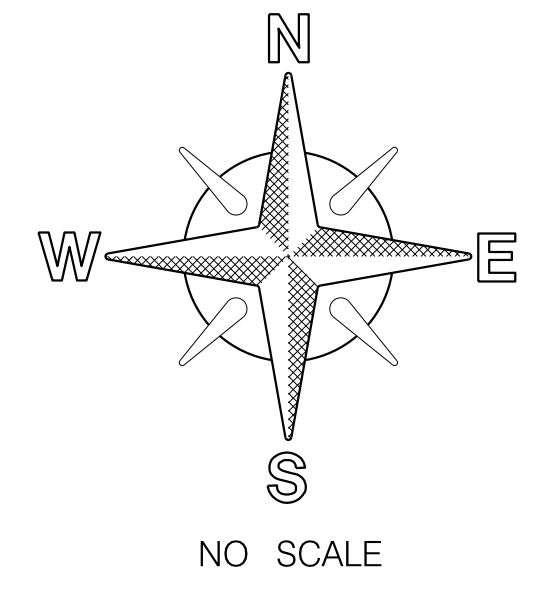
WITHIN CCDC LIMITS.  
 ALL SIDEWALK WORK SHALL  
 BE PER CCDC-SSM.

OUTSIDE CCDC LIMITS.  
 SIDEWALK WORK PER CITY  
 STANDARD DETAILS.

C-27

LEGEND

- SEWER MAIN TO BE ABAND'D
- EXISTING SEWER MAIN
- MANHOLE TO BE ABAND'D
- ..... WATER MAIN TO BE ABAND'D
- ..... EXISTING WATER MAIN



SEWER AND WATER GROUP 957				
SEWER AND WATER ABANDONMENT				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 28 OF 28 SHEETS			WATER WBS B11154	SEWER WBS B11152
FOR CITY ENGINEER		DATE		PROJECT MANAGER
Jim Haghighi		2/13/13		JIM HAGHIGHY
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	AM/SS			
CHECKED BY				PROJECT ENGINEER
ALI MOHAMMADIAN				SEE SHEETS
				CCS27 COORDINATE
				SEE SHEETS
				CCS83 COORDINATE
CONTRACTOR	DATE STARTED	INSPECTOR		36689-28-D
	DATE COMPLETED			

SEWER AND WATER ABANDONMENT

# City of San Diego

CITY CONTACT: Damian Singleton, Contract Specialist, Email: [Dsingleton@sandiego.gov](mailto:Dsingleton@sandiego.gov)  
Phone No. (619) 533-3482, Fax No. (619) 533-3633

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## ADDENDUM "B"

FOR

### SEWER AND WATER GROUP JOB 957

BID NO.:	<u>K-13-5811-DBB-3-C</u>
SAP NO. (WBS/IO/CC).:	<u>B-11152, B-11154</u>
CLIENT DEPARTMENT:	<u>2011, 2013</u>
COUNCIL DISTRICT:	<u>2</u>
PROJECT TYPE:	<u>KB</u>

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#### BID DUE DATE:

**2:00 PM  
APRIL 18, 2013  
CITY OF SAN DIEGO  
PUBLIC WORKS DEPARTMENT  
1010 SECOND AVENUE, SUITE 1400, MS 614C  
SAN DIEGO, CA 92101**



## ENGINEER OF WORK

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



For City Engineer

3/29/13

Date

Seal:



**A. CHANGES TO CONTRACT DOCUMENTS**

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

THE SUBMITTAL DATE FOR THIS PROJECT HAS BEEN **EXTENDED AS STATED ABOVE.**

**B. BIDDER'S QUESTIONS**

Q1. "Will bypass be required on the 16", 20", and 24" BFV's? Or only where there is a BFV of this size on a cross as referenced in bid item #61?"

A1. Yes; bypass assembly is required for cross and tees 16" and larger where shown on the plans.

Q2. "There are many bid items for hazardous materials monitoring/testing/handling and non for loading, transporting and disposal. Please confirm that no loading, transporting or disposal is needed?"

A2. See Section D (1) of this Addendum below.

Q3 "Will a community health and safety plan be required on this project?"

A3 Yes; added to the bid list. See D (1) of this Addendum.

Q4 "Bid item #61 and additive alternate "B" bid item #2 appear to be for the same work. Please clarify?"

A4 Yes; it is for the same work but different locations. If City forces are available to perform the work, the Contractor will not be awarded additive alternative.

Q5 "Bid Item #76 and additive alternate "A" bid item #1 are for the same work. Why are we bidding this item twice? Please clarify."

A5 This item is for the highline by city forces as identified on sheet 18 and 23 of the Plans. If the City forces are not available to perform the work, this additive alternative will be awarded to the Contractor.

**C. VOLUME 1**

1. To the Notice Inviting Bids, Item 7, Construction Costs, page 8, **DELETE** in its entirety and **SUBSTITUTE** with the following:

**8. CONSTRUCTION COSTS:** The City's estimated construction cost for this contract is **\$3,400,000.00.**

2. To the Notice Inviting Bids, Item 35, Required Document Schedule Table, pages 15 through 17, **ADD** the following:

ITEM	WHEN DUE	FROM	DOCUMENT TO BE SUBMITTED
21.	WITHIN 5 WORKING DAYS OF BID OPENING	APPARENT LOW BIDDER	Contractors experience and past project documentation (see section 707).

3. To the Supplementary Special Provisions (SSP), **ADD** the following:

**ADD:**

**707-1.6 Historic Resources (Built Environment) Monitoring Program.**

The Contractor shall retain a qualified historic resources consultant approved by the City’s Environmental Analysis Section (EAS) and Historic Resources Board (HRB). Within 5 Working Days of the bid opening, the Contractor must provide resumes of the Principal Investigator (PI) and monitors as well as 1 successful local project the historic resources consultant completed in the last 5 years, and provide a current reference for it. The City will verify the information provided and only qualified monitors shall be accepted. The historic resources consultant shall be a PI overseeing the Work and must be qualified pursuant the Historic Resources Regulations definitions for Architectural History, Historical Preservation, and History; or a discipline listed and approved by EAS/HRB for conducting the work. The historic resources PI or monitor shall attend the pre-construction meeting. The historic resources PI shall confirm the sites and implement the required monitoring per Contract Appendices.

If a resource is identified, the Contractor’s historic resources PI 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.

The Contractor shall coordinate its activities and Schedule with the activities and schedules of the historic resources consultant PI and monitor. The Contractor shall notify the Engineer before noon of the working day before monitoring is required. See 2-11, “INSPECTION” for details.

Unless included in the payment for the proposed item of Work e.g., utility main, the full compensation for Historic Resources (Built Environmental) and report preparation, as prescribed in Contract

Appendices, shall be included in the contract Bid item for Historic Resources (Built Environment).

In the event a resource is identified, 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.

**707-1.7 Historic Resources (Built Environment) Mitigation.**

In the event a resource is identified foreseen or unforeseen and after consultation with EAS/HRB 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 historic resources protections pursuant to the Historical Resources Regulations, the US Secretary of Interior's Standards, districts referenced in the MMRP of the MND, and historical sidewalk, stamps, lights, and landscape preservation, and reporting. The PI shall make recommendations about mitigation and preservation activities.

Work for mitigation shall be paid from the Allowance Bid item for Historic Resources (Built Environment). The Contractor shall provide the Engineer with invoices for the Work performed shown in the attached sample archaeological invoice in Appendix G and shall be reimbursed from the amount allocated.

If there is a historic district that is indicated in this section or the Contract Documents, the payment shall be included in the Lump Sum bid item for historical required mitigation and preservation measures.

**D. VOLUME 2**

1. To the Bidding Documents, Proposal (BID), pages 11 through 19, **DELETE** in their entirety and **SUBSTITUTE** with pages 6 of 14 through 14 of 14 of this Addendum.

Tony Heinrichs, Director  
Public Works Department

Dated: *April 2, 2013*  
San Diego, California

TH/ds/bd/l

**BIDDING DOCUMENTS**

**PROPOSAL (BID)**

The Bidder agrees to the construction of **SEWER AND WATER GROUP JOB 957**, 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
<b>BASE BID</b>							
1	1	LS	524126	2-4.1	Bonds (Payment and Performance)	<del>                    </del>	\$
2	1	EA	237110	3-3.2.2.1	Certificated Payroll	\$	\$
3	1	LS	238990	7-9.1.1	Video Recording of Pre-Existing Conditions	<del>                    </del>	\$
4	1	LS	237310	7-10.1.1	MTS Right of Entry Permit, Safety Training and Flagging	<del>                    </del>	\$
5	1	LS	237310	7-10.2.6	Traffic Control	<del>                    </del>	\$
6	1	LS	237110	9-3.4.1	Mobilization	<del>                    </del>	\$
7	1	AL		9-3.5	Field Orders- Type II	<del>                    </del>	\$150,000.00
8	154	CY	237310	300-1.4	Additional Pavement Removal & Disposal	\$	\$
9	4	EA	237310	301-1.7	Adjusting Existing Manhole Frame & Cover to Grade	\$	\$
10	20	EA	237310	302-1.12	Traffic Detector Loop Replacement	\$	\$
11	4,000	LF	237310	302-1.12	Cold Mill AC Pavement (>1 1/2"-3")	\$	\$
12	274,720	SF	237310	302-4.12.4	Rubber Polymer Modified Slurry Type II and Stripping	\$	\$
13	20	TON	237310	302-3.4	Asphalt Pavement Repair	\$	\$



**BIDDING DOCUMENTS**

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>NAICS</b>	<b>Payment Reference</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>
14	30,000	SF	237310	302-5.2.1	Pavement Restoration Adjacent to Trench	\$	\$
15	5,500	SY	237310	302-7.4	Pavement Fabric	\$	\$
16	932	TON	237310	302-5.9	1-1/2 Inch Asphalt Concrete Overlay and Striping	\$	\$
17	50	CY	237310	302-6.8	Concrete Pavement	\$	\$
18	500	LB	237310	302-14.5	Crack Seal	\$	\$
19	6	EA	237310	303-5.9	Contractor Date Stamp and Impressions	\$	\$
20	200	LF	237310	303-5.9	Additional Curb and Gutter	\$	\$
21	1,500	SF	237310	303-5.9	Additional Sidewalk Removal and Replacement	\$	\$
22	74	EA	237310	303-5.10.2	Curb Ramp Type A w/ Stainless Steel Detectable Warning Tiles	\$	\$
23	7	EA	237310	303-5.10.2	Curb Ramp Type B w/ Stainless Steel Detectable Warning Tiles	\$	\$
24	1	EA	237310	303-5.10.2	Curb Ramp Type C w/ Stainless Steel Detectable Warning Tiles	\$	\$
25	2	EA	237310	303-5.10.2	Curb Ramp Type C1 w/ Detectable Warning Tiles	\$	\$
26	1	EA	237310	303-5.10.2	Curb Ramp Type D w/ Stainless Steel Detectable Warning Tiles	\$	\$
27	4	EA	237310	303-5.10.2	Curb Ramp Type Directional w/ Stainless Steel Detectable Warning Tiles	\$	\$
28	1	LS	237110	306-1.1.6	Trench Shoring	<del>\$</del>	\$
29	500	CY	237110	306-1.2.1.1	Additional Bedding	\$	\$

**BIDDING DOCUMENTS**

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>NAICS</b>	<b>Payment Reference</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>
30	36	EA	237110	306-1.6	Thrust Block	\$	\$
31	1,200	TON	237110	306-1.6	Imported Backfill	\$	\$
32	2,100	LF	237110	306-9.7	Video inspecting pipelines for Acceptance	\$	\$
33	2,100	LF	237110	306-9.7	Cleaning and video Inspection pipeline	\$	\$
34	400	TON	237310	306-1.5.1	Temporary Resurfacing	\$	\$
35	13	EA	237110	306-1.6	6-Inch Fire Service Connection & Assembly	\$	\$
36	9	EA	237110	306-1.6	4-Inch Fire Service Connection & Assembly	\$	\$
37	2	EA	237110	306-1.6	2-Inch Fire Service Connection & Assembly	\$	\$
38	10	EA	237110	306-1.6	6-Inch 3 Port Fire Hydrant Assembly & Marker	\$	\$
39	2	EA	237110	306-1.6	6-Inch 2 Port Fire Hydrant Assembly & Marker	\$	\$
40	2	EA	237110	306-1.6	6-Inch Fire Hydrant Assembly, Marker and Reuse with Existing Stainless Steel Fire Hydrant	\$	\$
41	2	EA	237110	306-1.6	Installation of Reuse Existing Stainless Steel Fire Hydrant	\$	\$
42	2	EA	237110	306-1.6	24-Inch Butterfly Valve Class 250B	\$	\$
43	6	EA	237110	306-1.6	20-Inch Butterfly Valve Class 250B	\$	\$
44	22	EA	237110	306-1.6	16-Inch Butterfly Valve Class 250B	\$	\$
45	11	EA	237110	306-1.6	12-Inch Gate Valve	\$	\$
46	3	EA	237110	306-1.6	8-Inch Gate Valve	\$	\$
47	282	LF	237110	306-1.6	15-Inch Sewer Main, Special Strength SDR-26	\$	\$

**BIDDING DOCUMENTS**

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>NAICS</b>	<b>Payment Reference</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>
48	672	LF	237110	306-1.6	8-Inch Sewer Main, Special Strength SDR-26	\$	\$
49	1,075	LF	237110	306-1.6	8-Inch Sewer Main	\$	\$
50	9	EA	237110	306-1.9.1	4-Inch Sewer Lateral & Cleanout (Street)	\$	\$
51	1	EA	237110	306-1.9.1	6-Inch Sewer Lateral & Cleanout (Street)	\$	\$
52	7	EA	237110	306-1.8.6	Manholes (4x3)	\$	\$
53	2	EA	237110	306-1.8.6	Manholes (5x3) lined	\$	\$
54	1	EA	237110	306-1.8.6	Drop Manhole (5x3) PVC lined	\$	\$
55	3	EA	237110	306-1.8.6	Connection to Existing Manhole	\$	\$
56	2,493	LF	237110	306-5.3	Large Water Main Abandonment	\$	\$
57	532	LF	237110	306-5.3	Abandon and Fill Existing Sewer Main Outside of Trench Limit	\$	\$
58	3	EA	237110	306-5.3	Abandon Existing Manhole Outside of Trench	\$	\$
59	1	LS	237110	306-5.3	Removal or Abandonment of Existing Water Facilities	<del>\$</del>	\$
60	574	LF	237110	306-1.6	20-Inch Water Main, Class 305	\$	\$
61	7	EA	237110	306-1.6	Bypass Assembly For Cross and Tee Mainline 16-Inch and Larger	\$	\$
62	1,584	LF	237110	306-1.6	16-Inch Water Main, Class 235	\$	\$
63	1,956	LF	237110	306-1.6	16-Inch Water Main, Class 305	\$	\$
64	1,848	LF	237110	306-1.6	12-Inch Water Main, Class 235	\$	\$
65	1,990	LF	237110	306-1.6	12-Inch Water Main, Class 305	\$	\$

**BIDDING DOCUMENTS**

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>NAICS</b>	<b>Payment Reference</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>
66	200	LF	237110	306-1.6	8-Inch Water Main, Class 305	\$	\$
67	23	EA	237110	306-14.1	1-Inch Water Service	\$	\$
68	18	EA	237110	306-14.1	2-Inch Copper Water Service	\$	\$
69	2	EA	237110	306-14.1	4-Inch Water Service	\$	\$
70	2	EA	237110	306-14.1	6-Inch Water Service	\$	\$
71	1	EA	237110	306-19	4- Inch Air & Vacuum Valve, Class 250	\$	\$
72	2	EA	237110	306-19	2- Inch Air & Vacuum Valve Class 250	\$	\$
73	2490	SF	237110	600-1.3.1.5	Pavement Restoration for City Forces Final Connection	\$	\$
74	1	LS	237110	600-1.3.1.5	Contractor Furnished Materials for City Force Connection and Cut-in Work for Mains 16-inch and Larger	<del>\$</del>	\$
75	750	LF	237110	600-1.2.1.3	High-lining Removed by Contractor	\$	\$
76	1	LS	237110	600-1.2.2.10	High-lining by the Contractor	<del>\$</del>	\$
77	61	EA	237110	600-1.2.2.10	Water Service Transfer	\$	\$
78	1	LS	237990	700-2.15	Construction Fencing and Access Route	<del>\$</del>	\$
79	1	LS	237990	701-13.9.5	Water Pollution Control Program Implementation	<del>\$</del>	\$
80	1	LS	54330	701-13.9.5	Water Pollution Control Program Development	<del>\$</del>	\$
81	1	LS	238990	703-20 (a)	Preparation of Hazardous Waste Management Plan and Reporting	<del>\$</del>	\$
82	100	TON	238990	703-20 (b)	Monitoring, Testing, Sampling, Site Storage, and Handling of Soils Containing RCRA Hazardous Waste	\$	\$

**BIDDING DOCUMENTS**

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>NAICS</b>	<b>Payment Reference</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>
83	100	TON	238990	703-20 (c)	Loading, Transportation and Disposal of Soils Containing RCRA Hazardous Waste	\$	\$
84	150	TON	238990	703-20 (d)	Monitoring, Testing, Sampling, Site Storage and Handling of Petroleum Contaminated Soil	\$	\$
85	150	TON	238990	703-20 (e)	Loading, Transportation, and Disposal of Petroleum Contaminated Soil	\$	\$
86	100	TON	238990	703-20 (f)	Monitoring, Testing, Sampling Site Storage and Handling of Soils Containing Non-RCRA Hazardous Waste	\$	\$
87	100	TON	238990	703-20 (g)	Loading, Transportation, and Disposal of Soils Containing Non-RCRA Hazardous Waste	\$	\$
88	1	55 gallon drum	238990	703-20 (h)	Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of Containerized RCRA Hazardous Waste	\$	\$
89	1	55 gallon drum	238990	703-20 (i)	Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of Containerized Non-RCRA Hazardous Waste	\$	\$
90	1	LS	238990	703-20	Community Health and Safety Plan and Implementation	<del>                    </del>	\$
91	1	LS	237110	704-4	Sewage Bypass & Pumping Plan (Diversion Plan)	<del>                    </del>	\$
92	5	DAYS	541690	707-1	Suspension of Work - Resources	\$	\$
93	1	LS	541690	707-2	Archeological and Native American Monitoring Program	<del>                    </del>	\$
94	500	LF	541690	707-3	Paleontological Monitoring Program	\$	\$
95	1	AL	541690	707-4	Archeological and Native American Mitigation and Curation Type-I	<del>                    </del>	\$5,000.00



**BIDDING DOCUMENTS**

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>NAICS</b>	<b>Payment Reference</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>	
96	700	CY	541690	707-5	Paleontological Mitigation and Excavation	\$	\$	
97	1	LS	541690	807-1.6	Historical Resources (Built Environment) Monitoring Program	<del>                    </del>	\$	
98	1	LS	541690	807-1.7	Historical Resources (Built Environment) Mitigation	<del>                    </del>	\$	
<b>ESTIMATED TOTAL BASE BID</b>							<b>\$</b>	
<b>ADDITIVE ALTERNATE "A"</b>								
1	1	LS	237110	600-1.2.2.10	High-lining by the Contractor	<del>                    </del>	\$	
2	-750	LF	237110	600-1.2.1.3	High-lining Removed by Contractor	\$	\$	
<b>ESTIMATED TOTAL ADDITIVE ALTERNATE "A"</b>							<b>\$</b>	
<b>ADDITIVE ALTERNATE "B"</b>								
1	45	EA	237110	306-1.6	Water Meter	\$	\$	
2	7	EA	237110	306-1.6	Bypass Assembly For Cross and Tee Mainline 16-Inch and Larger	\$	\$	
3	1	EA	237110	600-1.3.2.10	8-Inch to 12- Inch Cut-in Cross	\$	\$	
4	5	EA	237110	600-1.3.2.10	8-Inch to 12- Inch Cut-in Tee	\$	\$	
5	4	EA	237110	600-1.3.2.10	8-Inch to 12-Inch Cut-in Elbow	\$	\$	
6	5	EA	237110	600-1.3.2.10	16-Inch and Larger Cut-in Cross	\$	\$	
7	2	EA	237110	600-1.3.2.10	16- Inch and Larger Cut-in Tee	\$	\$	
<b>ESTIMATED TOTAL ADDITIVE ALTERNATE "B"</b>							<b>\$</b>	
<b>ESTIMATED TOTAL BASE BID PLUS ADDITIVE ALTERNATES "A" &amp; "B"</b>							<b>\$</b>	

**BIDDING DOCUMENTS**

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TOTAL BID PRICE FOR BID (Items 1 through 98, PLUS Additive Alternate "A", item 1 through 2 and Additive Alternate "B", items 1 through 7, inclusive) amount written in words:

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The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on the Bid form. If an addendum or addenda has been issued by the City and not noted as being received by the Bidder, this proposal shall be rejected as being **non-responsive**. The following addenda have been received and are acknowledged in this bid: \_\_\_\_\_

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

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**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.

Bidder: \_\_\_\_\_

Title: \_\_\_\_\_

Business Address: \_\_\_\_\_

Place of Business: \_\_\_\_\_

Place of Residence: \_\_\_\_\_

Signature: \_\_\_\_\_

## BIDDING DOCUMENTS

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### NOTES:

- A. The City shall determine the low Bid based on the Base Bid PLUS Additive Alternates “**A**” and “**B**”.
- B. After the low Bid has been determined, the City may award the Contract for the Base Bid alone or if applicable, for the Base Bid plus any combination of additive alternate selected in the City’s sole discretion.
- C. 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.
- D. 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.
- E. 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.
- F. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.
- G. All extensions of the unit prices bid will be subject to verification by the City. In the case of inconsistency or conflict between the product of the Quantity x Unit Price and the Extension, the product shall govern.
- H. 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.
- I. 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.

# City of San Diego

CITY CONTACT: Damian Singleton, Contract Specialist, Email: [Dsingleton@sandiego.gov](mailto:Dsingleton@sandiego.gov)  
Phone No. (619) 533-3482, Fax No. (619) 533-3633

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## ADDENDUM "C"

FOR

### SEWER AND WATER GROUP JOB 957

BID NO.:	<u>K-13-5811-DBB-3-C</u>
SAP NO. (WBS/IO/CC).:	<u>B-11152, B-11154</u>
CLIENT DEPARTMENT:	<u>2011, 2013</u>
COUNCIL DISTRICT:	<u>2</u>
PROJECT TYPE:	<u>KB</u>

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#### **BID DUE DATE:**

**2:00 PM  
APRIL 25, 2013  
CITY OF SAN DIEGO  
PUBLIC WORKS DEPARTMENT  
1010 SECOND AVENUE, SUITE 1400, MS 614C  
SAN DIEGO, CA 92101**

# ENGINEER OF WORK

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



\_\_\_\_\_  
For City Engineer

4/11/13

\_\_\_\_\_  
Date

Seal:





**A. CHANGES TO CONTRACT DOCUMENTS**

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

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

**B. BIDDER'S QUESTIONS**

Q1. (Bid Item #77) There is no Water Service Transfers on the plans. Where are these at? Are some of the water services supposed to be transfers? This is not a small question.

A1. The Contractor shall transfer water services from the high-lines to the water mains. Bid Item #77 has been deleted via this Addendum.

Q2. (Bid Item #76) is about High-lining by Contractor while Additive Alternate "A" show High-lining, but both referring us to payment reference 600-1.2.2.10. What is the difference of the two items?

A2. See Plans sheets 6 and 7 for the high lining areas by the Contractor. The City Forces will high line areas shown on sheet 18 only. If Alternate "A" is awarded, the Contractor shall high-line and transfer water services for the entire areas shown on plans. See changes to the Supplementary Special Provisions as part of this addendum.

Q3. (Bid Item #48) 8-Inch Sewer Main, Special Strength SDR-26 shows 672-LF but drawing shows 820-LF.

A3. See the revised Proposal (BID) enclosed in this Addendum.

Q4. (Bid Item #49) 8-Inch Sewer Main shows 1,075 LF but drawing shows 799 LF only.

A4. See the revised Proposal (BID) enclosed in this Addendum.

Q5. (Bid Items #42 & #43) are for 24" & 20" Butterfly Valves. We did not find any 24" & 20" Butterfly Valves to be installed by the Contractor shown on the plans. Are items 42 & 43 to be used for the valves to be supplied to the City for installation by City Forces?

A5. See the revised Proposal (BID) enclosed in this Addendum.

Q6. (Bid item #62 and #63) 16" C905 pipe only comes in CL 165 and CL 235. Do you want the bid the CL 165 pipe for the 235 rating and the 235 pipe as the 305 rating?

A6. No; submit Bid as specified. CL305 is available in 16".

**C. ADDENDUM B**

1. To Item D, Volume 2, Bidding Documents, Proposal (BID), pages 6 through 14, **DELETE** in their entirety and **SUBSTITUTE** with pages 5 of 15 through 14 of 15 of this Addendum.

**D. VOLUME 1**

1. To the Supplementary Special Provisions, **ADD** the following:

**SECTION 600 - WORK INVOLVING THE CITY FORCES**

**600-1.2.1.2 Highline Removed by the Contractor.** To the City Supplement, (a), **DELETE** in its entirety and **SUBSTITUTE** with the following:

- a) When directed by the Engineer the Contractor shall transfer the water services and remove the high-line materials. The Contractor will pickup and deliver all the City high-line materials to Water Operations Division at: Chollas Station, 2797 Caminito Chollas, San Diego, CA 92105.

**600-1.2.1.3 Payment.** To the City Supplement, (c), **DELETE** in its entirety and **SUBSTITUTE** with the following:

- c) If high-lining by Contractor is awarded under "Alternate", payment for high lining removal and water service transfers by Contractor shall be included in the unit bid price for "High-lining by Contractor". Otherwise, if City Forces install the high-line system and the Contractor is requested to remove the high-line, transfer the water services, and deliver to the City designated location, payment shall be in accordance with the unit bid price for "High-lining Removed by Contractor" in the base bid.

**E. PLANS**

1. To the Plans, drawing number 36689-23-D, **DELETE** in its entirety and **SUBSTITUTE** with page 15 of 15 of this Addendum.

Tony Heinrichs, Director  
Public Works Department

Dated: *April 11, 2013*  
San Diego, California

TH/bd/ls/lji

**BIDDING DOCUMENTS**

**PROPOSAL (BID)**

The Bidder agrees to the construction of **SEWER AND WATER GROUP JOB 957**, 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
<b>BASE BID</b>							
1	1	LS	524126	2-4.1	Bonds (Payment and Performance)	<del>                    </del>	\$
2	1	EA	541214	3-3.2.2.1	Certificated Payroll	\$	\$
3	1	LS	238990	7-9.1.1	Video Recording of Pre-Existing Conditions	<del>                    </del>	\$
4	1	LS	237310	7-10.1.1	MTS Right of Entry Permit, Safety Training and Flagging	<del>                    </del>	\$
5	1	LS	237310	7-10.2.6	Traffic Control	<del>                    </del>	\$
6	1	LS	237110	9-3.4.1	Mobilization	<del>                    </del>	\$
7	1	AL		9-3.5	Field Orders- Type II	<del>                    </del>	\$150,000.00
8	154	CY	237310	300-1.4	Additional Pavement Removal & Disposal	\$	\$
9	4	EA	237310	301-1.7	Adjusting Existing Manhole Frame & Cover to Grade	\$	\$
10	20	EA	237310	302-1.12	Traffic Detector Loop Replacement	\$	\$
11	4,000	LF	237310	302-1.12	Cold Mill AC Pavement (>1 1/2"-3")	\$	\$
12	274,720	SF	237310	302-4.12.4	Rubber Polymer Modified Slurry Type II and Stripping	\$	\$

**BIDDING DOCUMENTS**

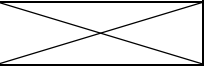
<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>NAICS</b>	<b>Payment Reference</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>
13	20	TON	237310	302-3.4	Asphalt Pavement Repair	\$	\$
14	30,000	SF	237310	302-5.2.1	Pavement Restoration Adjacent to Trench	\$	\$
15	5,500	SY	237310	302-7.4	Pavement Fabric	\$	\$
16	932	TON	237310	302-5.9	1-1/2 Inch Asphalt Concrete Overlay and Striping	\$	\$
17	50	CY	237310	302-6.8	Concrete Pavement	\$	\$
18	500	LB	237310	302-14.5	Crack Seal	\$	\$
19	6	EA	237310	303-5.9	Contractor Date Stamp and Impressions	\$	\$
20	200	LF	237310	303-5.9	Additional Curb and Gutter	\$	\$
21	1,500	SF	237310	303-5.9	Additional Sidewalk Removal and Replacement	\$	\$
22	74	EA	237310	303-5.10.2	Curb Ramp Type A w/ Stainless Steel Detectable Warning Tiles	\$	\$
23	7	EA	237310	303-5.10.2	Curb Ramp Type B w/ Stainless Steel Detectable Warning Tiles	\$	\$
24	1	EA	237310	303-5.10.2	Curb Ramp Type C w/ Stainless Steel Detectable Warning Tiles	\$	\$
25	2	EA	237310	303-5.10.2	Curb Ramp Type C1 w/ Detectable Warning Tiles	\$	\$
26	1	EA	237310	303-5.10.2	Curb Ramp Type D w/ Stainless Steel Detectable Warning Tiles	\$	\$
27	4	EA	237310	303-5.10.2	Curb Ramp Type Directional w/ Stainless Steel Detectable Warning Tiles	\$	\$

**BIDDING DOCUMENTS**

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>NAICS</b>	<b>Payment Reference</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>
28	1	LS	237110	306-1.1.6	Trench Shoring	<del>                    </del>	\$
29	500	CY	237110	306-1.2.1.1	Additional Bedding	\$	\$
30	36	EA	237110	306-1.6	Thrust Block	\$	\$
31	1,200	TON	237110	306-1.6	Imported Backfill	\$	\$
32	2,100	LF	237110	306-9.7	Video Inspecting Pipelines for Acceptance	\$	\$
33	2,100	LF	237110	306-9.7	Cleaning and Video Inspection Pipeline	\$	\$
34	400	TON	237310	306-1.5.1	Temporary Resurfacing	\$	\$
35	13	EA	237110	306-1.6	6-Inch Fire Service Connection & Assembly	\$	\$
36	9	EA	237110	306-1.6	4-Inch Fire Service Connection & Assembly	\$	\$
37	2	EA	237110	306-1.6	2-Inch Fire Service Connection & Assembly	\$	\$
38	10	EA	237110	306-1.6	6-Inch 3 Port Fire Hydrant Assembly & Marker	\$	\$
39	2	EA	237110	306-1.6	6-Inch 2 Port Fire Hydrant Assembly & Marker	\$	\$
40	2	EA	237110	306-1.6	6-Inch Fire Hydrant Assembly, Marker and Reuse with Existing Stainless Steel Fire Hydrant	\$	\$
41	2	EA	237110	306-1.6	Installation of Reuse Existing Stainless Steel Fire Hydrant	\$	\$
42	22	EA	237110	306-1.6	16-Inch Butterfly Valve Class 250B	\$	\$
43	11	EA	237110	306-1.6	12-Inch Gate Valve	\$	\$
44	3	EA	237110	306-1.6	8-Inch Gate Valve	\$	\$



**BIDDING DOCUMENTS**

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>NAICS</b>	<b>Payment Reference</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>
45	282	LF	237110	306-1.6	15-Inch Sewer Main, Special Strength SDR-26	\$	\$
46	820	LF	237110	306-1.6	8-Inch Sewer Main, Special Strength SDR-26	\$	\$
47	799	LF	237110	306-1.6	8-Inch Sewer Main	\$	\$
48	9	EA	237110	306-1.9.1	4-Inch Sewer Lateral & Cleanout (Street)	\$	\$
49	1	EA	237110	306-1.9.1	6-Inch Sewer Lateral & Cleanout (Street)	\$	\$
50	7	EA	237110	306-1.8.6	Manholes (4x3)	\$	\$
51	2	EA	237110	306-1.8.6	Manholes (5x3) lined	\$	\$
52	1	EA	237110	306-1.8.6	Drop Manhole (5x3) PVC lined	\$	\$
53	3	EA	237110	306-1.8.6	Connection to Existing Manhole	\$	\$
54	2,493	LF	237110	306-5.3	Large Water Main Abandonment	\$	\$
55	532	LF	237110	306-5.3	Abandon and Fill Existing Sewer Main Outside of Trench Limit	\$	\$
56	3	EA	237110	306-5.3	Abandon Existing Manhole Outside of Trench	\$	\$
57	1	LS	237110	306-5.3	Removal or Abandonment of Existing Water Facilities		\$
58	574	LF	237110	306-1.6	20-Inch Water Main, Class 305	\$	\$
59	7	EA	237110	306-1.6	Bypass Assembly For Cross and Tee Mainline 16-Inch and Larger	\$	\$
60	1,584	LF	237110	306-1.6	16-Inch Water Main, Class 235	\$	\$
61	1,956	LF	237110	306-1.6	16-Inch Water Main, Class 305	\$	\$



**BIDDING DOCUMENTS**

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>NAICS</b>	<b>Payment Reference</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>
78	1	LS	238990	703-20 (a)	Preparation of Hazardous Waste Management Plan and Reporting	<del>                    </del>	\$
79	100	TON	238990	703-20 (b)	Monitoring, Testing, Sampling, Site Storage, and Handling of Soils Containing RCRA Hazardous Waste	\$	\$
80	100	TON	238990	703-20 (c)	Loading, Transportation and Disposal of Soils Containing RCRA Hazardous Waste	\$	\$
81	150	TON	238990	703-20 (d)	Monitoring, Testing, Sampling, Site Storage and Handling of Petroleum Contaminated Soil	\$	\$
82	150	TON	238990	703-20 (e)	Loading, Transportation, and Disposal of Petroleum Contaminated Soil	\$	\$
83	100	TON	238990	703-20 (f)	Monitoring, Testing, Sampling Site Storage and Handling of Soils Containing Non-RCRA Hazardous Waste	\$	\$
84	100	TON	238990	703-20 (g)	Loading, Transportation, and Disposal of Soils Containing Non-RCRA Hazardous Waste	\$	\$
85	1	55 gallon drum	238990	703-20 (h)	Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of Containerized RCRA Hazardous Waste	\$	\$
86	1	55 gallon drum	238990	703-20 (i)	Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of Containerized Non-RCRA Hazardous Waste	\$	\$
87	1	LS	238990	703-20	Community Health and Safety Plan and Implementation	<del>                    </del>	\$

**BIDDING DOCUMENTS**

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>NAICS</b>	<b>Payment Reference</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>
88	1	LS	237110	704-4	Sewage Bypass & Pumping Plan (Diversion Plan)	<del>                    </del>	\$
89	5	DAYS	541330	707-1	Suspension of Work - Resources	\$	\$
90	1	LS	541330	707-2	Archeological and Native American Monitoring Program	<del>                    </del>	\$
91	500	LF	541330	707-3	Paleontological Monitoring Program	\$	\$
92	1	AL	541330	707-4	Archeological and Native American Mitigation and Curation Type-I	<del>                    </del>	\$5,000.00
93	700	CY	541330	707-5	Paleontological Mitigation and Excavation	\$	\$
94	1	LS	541330	707-1.6	Historical Resources (Built Environment) Monitoring Program	<del>                    </del>	\$
95	1	LS	541330	707-1.7	Historical Resources (Built Environment) Mitigation	<del>                    </del>	\$
<b>ESTIMATED TOTAL BASE BID</b>							<b>\$</b>
<b>ALTERNATE "A"</b>							
1	1	LS	237110	600-1.2.2.10	High-lining by the Contractor	<del>                    </del>	\$
2	-750	LF	237110	600-1.2.1.3	High-lining Removed by Contractor (Base Bid Item 73)	\$	\$
<b>ESTIMATED TOTAL ALTERNATE "A"</b>							<b>\$</b>
<b>ALTERNATE "B"</b>							
1	45	EA	237110	306-1.6	Water Meter	\$	\$
2	7	EA	237110	306-1.6	Bypass Assembly For Cross and Tee Mainline 16-Inch and Larger	\$	\$

**BIDDING DOCUMENTS**

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>NAICS</b>	<b>Payment Reference</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>	
3	1	EA	237110	600-1.3.2.10	8-Inch to 12- Inch Cut-in Cross	\$	\$	
4	5	EA	237110	600-1.3.2.10	8-Inch to 12- Inch Cut-in Tee	\$	\$	
5	5	EA	237110	600-1.3.2.10	8-Inch to 12-Inch Cut-in Elbow	\$	\$	
6	5	EA	237110	600-1.3.2.10	16-Inch and Larger Cut-in Cross	\$	\$	
7	2	EA	237110	600-1.3.2.10	16- Inch and Larger Cut-in Tee	\$	\$	
8	2	EA	237110	600-1.3.2.10	16-Inch Cut-in Elbow	\$	\$	
9	2	EA	237110	600-1.3.2.10	Installation of 20-Inch by 16-Inch Reducer	\$	\$	
10	29	EA	237110	600-1.4.9	Cut and Plug of Existing System by Contractor	\$	\$	
11	29	EA	237110	600-1.3.2.10	6-Inch Through 16-Inch Connections to the Existing System by Contractor	\$	\$	
12	1	EA	237110	600-1.3.2.10	Installation of 20-Inch by 12-Inch Reducer	\$	\$	
13	2	EA	237110	600-1.3.2.10	Installation of 20-Inch by 16-Inch Reducer	\$	\$	
<b>ESTIMATED TOTAL ALTERNATE "B"</b>							\$	\$
<b>ESTIMATED TOTAL BASE BID PLUS ALTERNATES "A" AND "B"</b>							\$	\$

TOTAL BID PRICE FOR BID (Items 1 through 95, PLUS Alternate "A", item 1 through 2 and Alternate "B", items 1 through 12, inclusive) amount written in words:

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**BIDDING DOCUMENTS**

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The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on the Bid form. If an addendum or addenda has been issued by the City and not noted as being received by the Bidder, this proposal shall be rejected as being **non-responsive**. The following addenda have been received and are acknowledged in this bid: \_\_\_\_\_

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

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**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.

Bidder: \_\_\_\_\_

Title: \_\_\_\_\_

Business Address: \_\_\_\_\_

Place of Business: \_\_\_\_\_

Place of Residence: \_\_\_\_\_

Signature: \_\_\_\_\_

## BIDDING DOCUMENTS

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### NOTES:

- A. The City shall determine the low Bid based on the Base Bid PLUS Additive Alternates “**A**” and “**B**”.
- B. After the low Bid has been determined, the City may award the Contract for the Base Bid alone or if applicable, for the Base Bid plus any combination of additive alternate selected in the City’s sole discretion.
- C. 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.
- D. 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.
- E. 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.
- F. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.
- G. All extensions of the unit prices bid will be subject to verification by the City. In the case of inconsistency or conflict between the product of the Quantity x Unit Price and the Extension, the product shall govern.
- H. 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.
- I. 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.

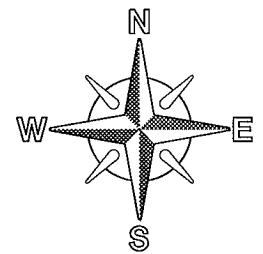
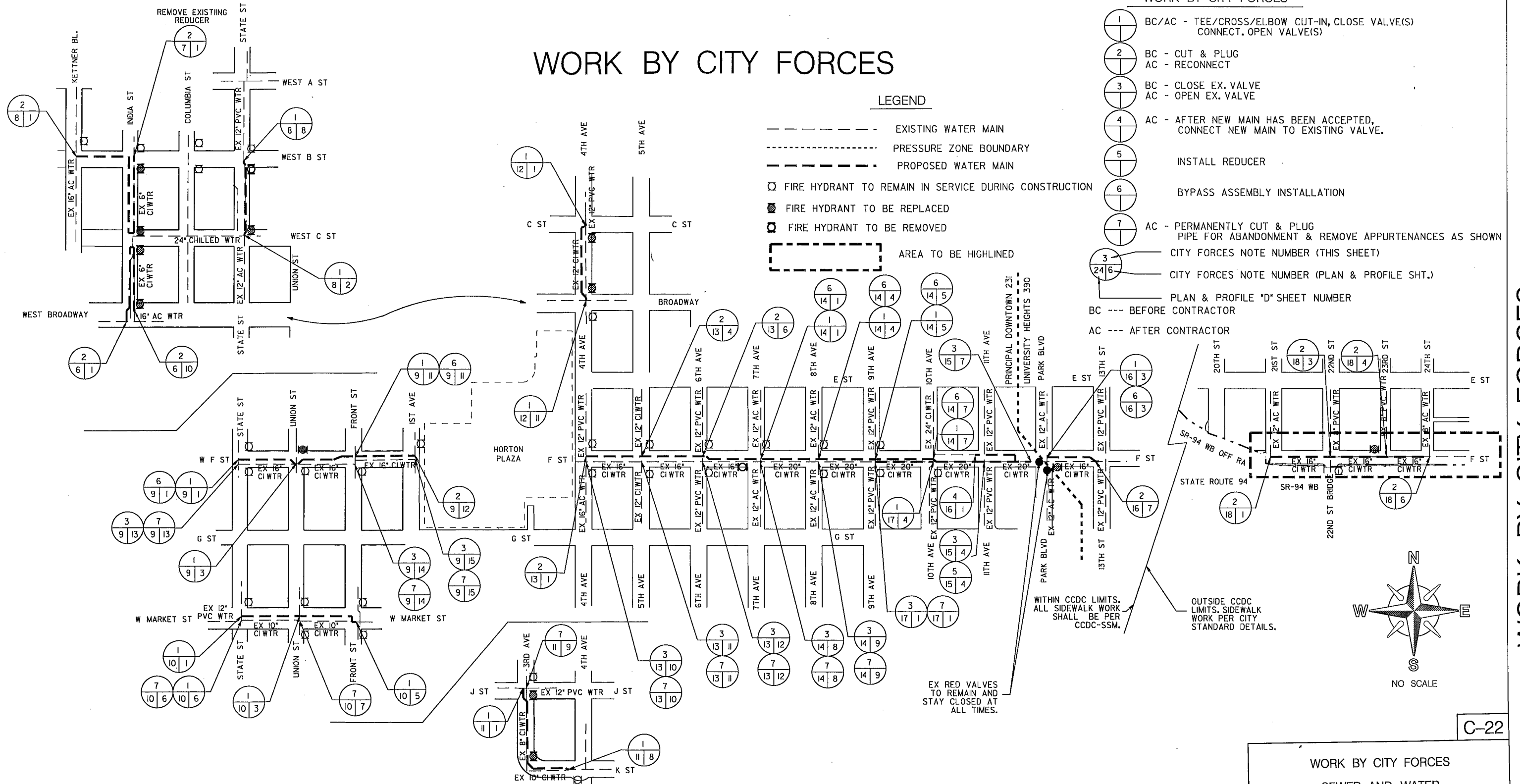
# WORK BY CITY FORCES

## WORK BY CITY FORCES

### LEGEND

- EXISTING WATER MAIN
- - - - - PRESSURE ZONE BOUNDARY
- - - - - PROPOSED WATER MAIN
- FIRE HYDRANT TO REMAIN IN SERVICE DURING CONSTRUCTION
- FIRE HYDRANT TO BE REPLACED
- ⊠ FIRE HYDRANT TO BE REMOVED
- AREA TO BE HIGHLINED

- 1 BC/AC - TEE/CROSS/ELBOW CUT-IN, CLOSE VALVE(S) CONNECT. OPEN VALVE(S)
- 2 BC - CUT & PLUG  
AC - RECONNECT
- 3 BC - CLOSE EX. VALVE  
AC - OPEN EX. VALVE
- 4 AC - AFTER NEW MAIN HAS BEEN ACCEPTED, CONNECT NEW MAIN TO EXISTING VALVE.
- 5 INSTALL REDUCER
- 6 BYPASS ASSEMBLY INSTALLATION
- 7 AC - PERMANENTLY CUT & PLUG PIPE FOR ABANDONMENT & REMOVE APPURTENANCES AS SHOWN
- 3 CITY FORCES NOTE NUMBER (THIS SHEET)
- 24 CITY FORCES NOTE NUMBER (PLAN & PROFILE SHT.)
- PLAN & PROFILE "D" SHEET NUMBER
- BC --- BEFORE CONTRACTOR
- AC --- AFTER CONTRACTOR



EX RED VALVES TO REMAIN AND STAY CLOSED AT ALL TIMES.

WITHIN CCDC LIMITS, ALL SIDEWALK WORK SHALL BE PER CCDC-SSM.

OUTSIDE CCDC LIMITS, SIDEWALK WORK PER CITY STANDARD DETAILS.

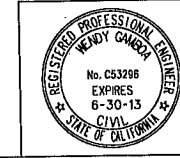
WORK BY CITY FORCES

SHT	CONTRACTOR FURNISHED MATERIALS FOR CITY FORCES WORK																			
	CROSS			TEE			REDUCER			12" BV			12" ELBOW		16" ELBOW		STUB OUT			
	20" X 24"	20" X 12"	16" X 12"	12" X 12"	16" X 16"	12" X 12"	24" X 12"	20" X 12"	20" X 16"	16" X 12"	12" X 10"	12" X 10"	16" X 16"	12" X 12"	16" X 16"	12" X 10"	10" X 8"			
8																				
9																				
10																		70'	30'	
11																				
12																		20'	40'	
14																		80'		
15																				
16																				
17																			20'	
TOTAL	1	2	2	1	2	5	1	1	3	4	1	25	8	6	2	3	2	20'	210'	50'

NOTE: CITY FORCES TO INSTALL WATER METERS AS SHOWN ON DETAILS IN SHEETS 25 & 26.

C-22

<b>WORK BY CITY FORCES</b>			
<b>SEWER AND WATER GROUP 957</b>			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 23 OF 28 SHEETS		WATER WBS B11154 SEWER WBS B11152	
APPROVED BY: <i>[Signature]</i> FOR CITY ENGINEER	DATE: 4/11/13	PROJECT MANAGER: JIM HACHGOUY	
DESCRIPTION: ORIGINAL	BY: AM/SS	APPROVED DATE: FILMED	DESIGNED BY: ALI MOHAMMADIAN PROJECT ENGINEER
			SEE SHEETS C0827 COORDINATE
			SEE SHEETS C0883 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____	36689-23-D	
INSPECTOR: _____	DATE COMPLETED: _____		



# City of San Diego

CONTRACTOR'S NAME: TC CONSTRUCTION CO. INC.  
ADDRESS: 10540 PROSPECT AVE., SANTEE, CA. 92071  
TELEPHONE NO.: 619-448-4560 FAX NO.: 619-448-3341  
CITY CONTACT: DAMIAN SINGLETON, Contract Specialist, Email: dsingleton@sandiego.gov  
Phone No. (619) 533-3482, Fax No. (619) 533-3633  
J HAGGOUY / B DORINGO / LS



## CONTRACT DOCUMENTS

## FOR

## SEWER AND WATER GROUP JOB 957

VOLUME 2 OF 2

BID NO.:	<u>K-13-5811-DBB-3-C</u>
SAP NO. (WBS/IO/CC):	<u>B-11152 / B-11154</u>
CLIENT DEPARTMENT:	<u>2011 / 2013</u>
COUNCIL DISTRICT:	<u>2</u>
PROJECT TYPE:	<u>KB</u>

**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 VOLUME 1 COVER PAGE 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.

1. Bid/Proposal.....	3-6
2. Bid Bond .....	7
3. Non-Collusion Affidavit to be executed by Bidder and Submitted with Bid under 23 USC 112 and PCC 7106 .....	8
4. Contractors Certification of Pending Actions .....	9
5. Equal Benefits Ordinance Certification of Compliance.....	10
6. Proposal (Bid).....	11-19
7. Form AA35 - List of Subcontractors .....	20
8. Form AA40 - Named Equipment/Material Supplier List .....	21
9. Form AA45 - Subcontractors Additive/Deductive Alternate.....	22

**BIDDING DOCUMENTS**

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**PROPOSAL**

**Bidder's General Information**

To the City of San Diego:

Pursuant to "Notice Inviting Bids", specifications, and requirements on file with the City Clerk, and subject to all provisions of the Charter and Ordinances of the City of San Diego and applicable laws and regulations of the United States and the State of California, the undersigned hereby proposes to furnish to the City of San Diego, complete at the prices stated herein, the items or services hereinafter mentioned. The undersigned further warrants that this bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

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

**IF A SOLE OWNER OR SOLE CONTRACTOR SIGN HERE:**      *N/A*

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



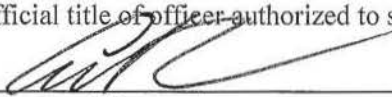
**BIDDING DOCUMENTS**

**IF A PARTNERSHIP, SIGN HERE:**

N/A

- (1) Name under which business is conducted \_\_\_\_\_
- (2) Name of each member of partnership, indicate character of each partner, general or special (limited):  
\_\_\_\_\_  
\_\_\_\_\_
- (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 TC CONSTRUCTION CO. INC.
- (2) Signature, with official title of officer authorized to sign for the corporation:  
  
\_\_\_\_\_  
(Signature)  
AUSTIN CAMERON  
\_\_\_\_\_  
(Printed Name)  
SECRETARY  
\_\_\_\_\_  
(Title of Officer)  

(Impress Corporate Seal Here)
- (3) Incorporated under the laws of the State of CALIFORNIA
- (4) Place of Business (Street & Number) 10540 PROSPECT AVE.
- (5) City and State SAUTEE, CA. Zip Code 92071
- (6) Telephone No. 619-448-4560 Facsimile No. 619-448-3341

**BIDDING DOCUMENTS**

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**THE FOLLOWING SECTIONS MUST BE FILLED IN BY ALL PROPOSERS:**

In accordance with the "NOTICE INVITING 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, C.21

LICENSE NO. 402459 EXPIRES 4-30-13

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): 95-3646005

E-Mail Address: acameron@tcinsd.com

BIDDING DOCUMENTS

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

State of California )
County of SAN DIEGO ) ss.

AUSTIN CAMERON, being first duly sworn, deposes and says that he or she is SECRETARY 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.

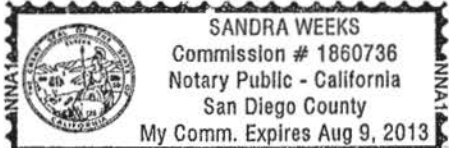
Signed: [Signature] AUSTIN CAMERON

State of California County of San Diego Title: SECRETARY

Subscribed and sworn to (or affirmed) before me on this 24th day of April, 2013, by Austin Cameron

proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me. Subscribed and sworn to before me this \_\_\_ day of \_\_\_, 20\_\_

Signature: Sandra Weeks Notary Public



**BIDDING DOCUMENTS**

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**CONTRACTORS CERTIFICATION OF PENDING ACTIONS**

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

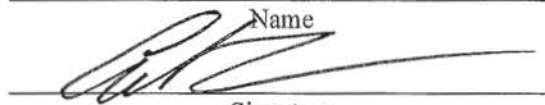
CHECK ONE BOX ONLY.

- The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.
- The undersigned certifies that within the past 10 years the Bidder has been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers. A description of the status or resolution of that complaint, including any remedial action taken and the applicable dates is as follows:

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

Contractor Name: TC CONSTRUCTION CO. INC.

Certified By AUSTIN CAMERON Title SECRETARY

  
Signature

Date 4-25-13

**USE ADDITIONAL FORMS AS NECESSARY**



**BIDDING DOCUMENTS**

**EQUAL BENEFITS ORDINANCE  
CERTIFICATION OF COMPLIANCE**



For additional information, contact:  
**CITY OF SAN DIEGO**  
**EQUAL BENEFITS PROGRAM**  
 202 C Street, MS 9A, San Diego, CA 92101  
 Phone (619) 533-3948 Fax (619) 533-3220

**COMPANY INFORMATION**

Company Name: <u>TC CONSTRUCTION CO., INC.</u>	Contact Name: <u>AUSTIN CAMERON</u>
Company Address: <u>10540 PROSPECT AVE.</u>	Contact Phone: <u>619.448.4560 x117</u>
<u>SANTEE, CA. 92071</u>	Contact Email: <u>acameron@tcincsd.com</u>

**CONTRACT INFORMATION**

Contract Title: <u>SEWER AND WATER GROUP JOB 957</u>	Start Date: <u>TBD</u>
Contract Number (if no number, state location): <u>K-13-5811-DBB-3-C</u>	End Date: <u>TBD</u>

**SUMMARY OF EQUAL BENEFITS ORDINANCE REQUIREMENTS**

The Equal Benefits Ordinance [EBO] requires the City to enter into contracts only with contractors who certify they will provide and maintain equal benefits as defined in SDMC §22.4302 for the duration of the contract. To comply:

- Contractor shall offer equal benefits to employees with spouses and employees with domestic partners.
  - Benefits include health, dental, vision insurance; pension/401(k) plans; bereavement, family, parental leave; discounts, child care; travel/relocation expenses; employee assistance programs; credit union membership; or any other benefit.
  - Any benefit not offer an employee with a spouse, is not required to be offered to an employee with a domestic partner.
- Contractor shall post notice of firm's equal benefits policy in the workplace and notify employees at time of hire and during open enrollment periods.
- Contractor shall allow City access to records, when requested, to confirm compliance with EBO requirements.
- Contractor shall submit *EBO Certification of Compliance*, signed under penalty of perjury, prior to award of contract.

NOTE: This summary is provided for convenience. Full text of the EBO and Rules Implementing the EBO are available at [www.sandiego.gov/administration](http://www.sandiego.gov/administration).

**CONTRACTOR EQUAL BENEFITS ORDINANCE CERTIFICATION**

Please indicate your firm's compliance status with the EBO. The City may request supporting documentation.

- I affirm **compliance** with the EBO because my firm (*contractor must select one reason*):
- Provides equal benefits to spouses and domestic partners.
  - Provides no benefits to spouses or domestic partners.
  - Has no employees.
  - Has collective bargaining agreement(s) in place prior to January 1, 2011, that has not been renewed or expired.

- I request the City's approval to pay affected employees a cash equivalent in lieu of equal benefits and verify my firm made a reasonable effort but is not able to provide equal benefits upon contract award. I agree to notify employees of the availability of a cash equivalent for benefits available to spouses but not domestic partners and to continue to make every reasonable effort to extend all available benefits to domestic partners.

It is unlawful for any contractor to knowingly submit any false information to the City regarding equal benefits or cash equivalent associated with the execution, award, amendment, or administration of any contract. [San Diego Municipal Code §22.4307(a)]

Under penalty of perjury under laws of the State of California, I certify the above information is true and correct. I further certify that my firm understands the requirements of the Equal Benefits Ordinance and will provide and maintain equal benefits for the duration of the contract or pay a cash equivalent if authorized by the City.

<u>AUSTIN CAMERON, SECRETARY</u>		<u>4-25-13</u>
Name/Title of Signatory	Signature	Date

**FOR OFFICIAL CITY USE ONLY**

Receipt Date: \_\_\_\_\_ EBO Analyst: \_\_\_\_\_  Approved  Not Approved – Reason: \_\_\_\_\_

(Rev 02/15/2011)

**BIDDING DOCUMENTS**

**PROPOSAL (BID)**

The Bidder agrees to the construction of SEWER AND WATER GROUP JOB 957, 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
<b>BASE BID</b>							
1	1	LS	524126	2-4.1	Bonds (Payment and Performance)	<del>                    </del>	\$ 27,500.-
2	1	EA	541214	3-3.2.2.1	Certificated Payroll	\$ 50.-	\$ 50.-
3	1	LS	238990	7-9.1.1	Video Recording of Pre-Existing Conditions	<del>                    </del>	\$ 4,500.-
4	1	LS	237310	7-10.1.1	MTS Right of Entry Permit, Safety Training and Flagging	<del>                    </del>	\$ 15,000.-
5	1	LS	237310	7-10.2.6	Traffic Control	<del>                    </del>	\$120,000.-
6	1	LS	237110	9-3.4.1	Mobilization	<del>                    </del>	\$110,000.-
7	1	AL		9-3.5	Field Orders- Type II	<del>                    </del>	\$150,000.00
8	154	CY	237310	300-1.4	Additional Pavement Removal & Disposal	\$ 160.-	\$ 24,640.-
9	4	EA	237310	301-1.7	Adjusting Existing Manhole Frame & Cover to Grade	\$ 150.-	\$ 600.-
10	20	EA	237310	302-1.12	Traffic Detector Loop Replacement	\$ 650.-	\$ 13,000.-
11	4,000	LF	237310	302-1.12	Cold Mill AC Pavement (>1 1/2"-3")	\$ 4.-	\$ 16,000.-
12	274,720	SF	237310	302-4.12.4	Rubber Polymer Modified Slurry Type II and Stripping	\$ .30	\$ 82,416.-



**BIDDING DOCUMENTS**

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
13	20	TON	237310	302-3.4	Asphalt Pavement Repair	\$ 250.-	\$ 5,000.-
14	30,000	SF	237310	302-5.2.1	Pavement Restoration Adjacent to Trench	\$ 4.50	\$ 135,000.-
15	5,500	SY	237310	302-7.4	Pavement Fabric	\$ 4.-	\$ 22,000.-
16	932	TON	237310	302-5.9	1-1/2 Inch Asphalt Concrete Overlay and Striping	\$ 140.-	\$ 130,480.-
17	50	CY	237310	302-6.8	Concrete Pavement	\$ 140.-	\$ 7,000.-
18	500	LB	237310	302-14.5	Crack Seal	\$ 15.-	\$ 7,500.-
19	6	EA	237310	303-5.9	Contractor Date Stamp and Impressions	\$ 120.-	\$ 720.-
20	200	LF	237310	303-5.9	Additional Curb and Gutter	\$ 30.-	\$ 6,000.-
21	1,500	SF	237310	303-5.9	Additional Sidewalk Removal and Replacement	\$ 7.-	\$ 10,500.-
22	74	EA	237310	303-5.10.2	Curb Ramp Type A w/ Stainless Steel Detectable Warning Tiles	\$ 2,200.-	\$ 162,800.-
23	7	EA	237310	303-5.10.2	Curb Ramp Type B w/ Stainless Steel Detectable Warning Tiles	\$ 2,200.-	\$ 15,400.-
24	1	EA	237310	303-5.10.2	Curb Ramp Type C w/ Stainless Steel Detectable Warning Tiles	\$ 3,800.-	\$ 3,800.-
25	2	EA	237310	303-5.10.2	Curb Ramp Type C1 w/ Detectable Warning Tiles	\$ 2,200.-	\$ 4,400.-
26	1	EA	237310	303-5.10.2	Curb Ramp Type D w/ Stainless Steel Detectable Warning Tiles	\$ 1,800.-	\$ 1,800.-
27	4	EA	237310	303-5.10.2	Curb Ramp Type Directional w/ Stainless Steel Detectable Warning Tiles	\$ 2,400.-	\$ 9,600.-

**BIDDING DOCUMENTS**

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
28	1	LS	237110	306-1.1.6	Trench Shoring	<del>                    </del>	\$45,000.-
29	500	CY	237110	306-1.2.1.1	Additional Bedding	\$ 40.-	\$20,000.-
30	36	EA	237110	306-1.6	Thrust Block	\$ 410.-	\$14,760.-
31	1,200	TON	237110	306-1.6	Imported Backfill	\$ 50.-	\$60,000.-
32	2,100	LF	237110	306-9.7	Video Inspecting Pipelines for Acceptance	\$ .75	\$1,575.-
33	2,100	LF	237110	306-9.7	Cleaning and Video Inspection Pipeline	\$ 1.25	\$2,625.-
34	400	TON	237310	306-1.5.1	Temporary Resurfacing	\$ 120.-	\$48,000.-
35	13	EA	237110	306-1.6	6-Inch Fire Service Connection & Assembly	\$5,500.-	\$71,500.-
36	9	EA	237110	306-1.6	4-Inch Fire Service Connection & Assembly	\$5,300.-	\$47,700.-
37	2	EA	237110	306-1.6	2-Inch Fire Service Connection & Assembly	\$4,800.-	\$9,600.-
38	10	EA	237110	306-1.6	6-Inch 3 Port Fire Hydrant Assembly & Marker	\$6,800.-	\$68,000.-
39	2	EA	237110	306-1.6	6-Inch 2 Port Fire Hydrant Assembly & Marker	\$7,500.-	\$15,000.-
40	2	EA	237110	306-1.6	6-Inch Fire Hydrant Assembly, Marker and Reuse with Existing Stainless Steel Fire Hydrant	\$6,000.-	\$12,000.-
41	2	EA	237110	306-1.6	Installation of Reuse Existing Stainless Steel Fire Hydrant	\$3,200.-	\$6,400.-
42	22	EA	237110	306-1.6	16-Inch Butterfly Valve Class 250B	\$4,200.-	\$92,400.-
43	11	EA	237110	306-1.6	12-Inch Gate Valve	\$3,100.-	\$34,100.-
44	3	EA	237110	306-1.6	8-Inch Gate Valve	\$1,750.-	\$5,250.-

**BIDDING DOCUMENTS**

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
45	282	LF	237110	306-1.6	15-Inch Sewer Main, Special Strength SDR-26	\$ 160.-	45,120.-
46	820	LF	237110	306-1.6	8-Inch Sewer Main, Special Strength SDR-26	\$ 115.-	\$ 94,300.-
47	799	LF	237110	306-1.6	8-Inch Sewer Main	\$ 90.-	\$ 71,910.-
48	9	EA	237110	306-1.9.1	4-Inch Sewer Lateral & Cleanout (Street)	\$ 2,600.-	\$ 23,400.-
49	1	EA	237110	306-1.9.1	6-Inch Sewer Lateral & Cleanout (Street)	\$ 3,800.-	\$ 3,800.-
50	7	EA	237110	306-1.8.6	Manholes (4x3)	\$ 4,800.-	\$ 33,600.-
51	2	EA	237110	306-1.8.6	Manholes (5x3) lined	\$ 12,000.-	\$ 24,000.-
52	1	EA	237110	306-1.8.6	Drop Manhole (5x3) PVC lined	\$ 15,000.-	\$ 15,000.-
53	3	EA	237110	306-1.8.6	Connection to Existing Manhole	\$ 2,000.-	\$ 6,000.-
54	2,493	LF	237110	306-5.3	Large Water Main Abandonment	\$ 7.-	\$ 17,451.-
55	532	LF	237110	306-5.3	Abandon and Fill Existing Sewer Main Outside of Trench Limit	\$ 12.-	\$ 6,384.-
56	3	EA	237110	306-5.3	Abandon Existing Manhole Outside of Trench	\$ 1,000.-	\$ 3,000.-
57	1	LS	237110	306-5.3	Removal or Abandonment of Existing Water Facilities	<del>                    </del>	\$ 5,000.-
58	574	LF	237110	306-1.6	20-Inch Water Main, Class 305	\$ 140.-	\$ 80,360.-
59	7	EA	237110	306-1.6	Bypass Assembly For Cross and Tee Mainline 16-Inch and Larger	\$ 8,500.-	\$ 59,500.-
60	1,584	LF	237110	306-1.6	16-Inch Water Main, Class 235	\$ 110.-	\$ 174,240.-
61	1,956	LF	237110	306-1.6	16-Inch Water Main, Class 305	\$ 123.-	\$ 240,588.-

**BIDDING DOCUMENTS**

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
62	1,848	LF	237110	306-1.6	12-Inch Water Main, Class 235	\$90.-	\$166,320.-
63	1,990	LF	237110	306-1.6	12-Inch Water Main, Class 305	\$95.-	\$189,050.-
64	200	LF	237110	306-1.6	8-Inch Water Main, Class 305	\$ 115.-	\$ 23,000.-
65	23	EA	237110	306-14.1	1-Inch Water Service	\$ 2,800.-	\$ 64,400.-
66	18	EA	237110	306-14.1	2-Inch Copper Water Service	\$ 3,800.-	\$ 68,400.-
67	2	EA	237110	306-14.1	4-Inch Water Service	\$ 5,200.-	\$ 10,400.-
68	2	EA	237110	306-14.1	6-Inch Water Service	\$ 8,600.-	\$ 17,200.-
69	1	EA	237110	306-19	4- Inch Air & Vacuum Valve, Class 250	\$ 8,200.-	\$ 8,200.-
70	2	EA	237110	306-19	2- Inch Air & Vacuum Valve Class 250	\$ 5,000.-	\$ 10,000.-
71	2,490	SF	237110	600-1.3.1.5	Pavement Restoration for City Forces Final Connection	\$ 17.-	\$ 42,330.-
72	1	LS	237110	600-1.3.1.5	Contractor Furnished Materials for City Force Connection and Cut-in Work for Mains 16-inch and Larger	<del>                    </del>	\$ 59,000.-
73	750	LF	237110	600-1.2.1.3	High-lining Removed by Contractor	\$ 18.-	\$ 13,500.-
74	1	LS	237110	600-1.2.2.10	High-lining by the Contractor	<del>                    </del>	\$ 20,000.-
75	1	LS	237990	700-2.15	Construction Fencing and Access Route	<del>                    </del>	\$ 6,500.-
76	1	LS	237990	701-13.9.5	Water Pollution Control Program Implementation	<del>                    </del>	\$ 8,500.-
77	1	LS	54330	701-13.9.5	Water Pollution Control Program Development	<del>                    </del>	\$ 35,000.-

**BIDDING DOCUMENTS**

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
78	1	LS	238990	703-20 (a)	Preparation of Hazardous Waste Management Plan and Reporting	<del>                    </del>	\$7,500.-
79	100	TON	238990	703-20 (b)	Monitoring, Testing, Sampling, Site Storage, and Handling of Soils Containing RCRA Hazardous Waste	\$ 50.-	\$5,000.-
80	100	TON	238990	703-20 (c)	Loading, Transportation and Disposal of Soils Containing RCRA Hazardous Waste	\$ 300.-	\$30,000.-
81	150	TON	238990	703-20 (d)	Monitoring, Testing, Sampling, Site Storage and Handling of Petroleum Contaminated Soil	\$ 50.-	\$7,500.-
82	150	TON	238990	703-20 (e)	Loading, Transportation, and Disposal of Petroleum Contaminated Soil	\$ 115.-	\$17,250.-
83	100	TON	238990	703-20 (f)	Monitoring, Testing, Sampling Site Storage and Handling of Soils Containing Non-RCRA Hazardous Waste	\$ 50.-	\$5,000.-
84	100	TON	238990	703-20 (g)	Loading, Transportation, and Disposal of Soils Containing Non-RCRA Hazardous Waste	\$ 195.-	\$19,500.-
85	1	55 gallon drum	238990	703-20 (h)	Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of Containerized RCRA Hazardous Waste	\$ 7,500.-	\$7,500.-
86	1	55 gallon drum	238990	703-20 (i)	Testing, Sampling, Site Storage, Handling, Transportation, and Disposal of Containerized Non-RCRA Hazardous Waste	\$7,500.-	\$7,500.-
87	1	LS	238990	703-20	Community Health and Safety Plan and Implementation	<del>                    </del>	\$6,000.-

**BIDDING DOCUMENTS**

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
88	1	LS	237110	704-4	Sewage Bypass & Pumping Plan (Diversion Plan)	<del>                    </del>	\$ 4,500.-
89	5	DAYS	541330	707-1	Suspension of Work - Resources	\$ 150.-	\$ 750.-
90	1	LS	541330	707-2	Archeological and Native American Monitoring Program	<del>                    </del>	\$ 21,000.-
91	500	LF	541330	707-3	Paleontological Monitoring Program	\$ 1.50	\$ 750.-
92	1	AL	541330	707-4	Archeological and Native American Mitigation and Curation Type-I	<del>                    </del>	\$5,000.00
93	700	CY	541330	707-5	Paleontological Mitigation and Excavation	\$ 15.-	\$10,500.-
94	1	LS	541330	707-1.6	Historical Resources (Built Environment) Monitoring Program	<del>                    </del>	\$ 4,500.-
95	1	LS	541330	707-1.7	Historical Resources (Built Environment) Mitigation	<del>                    </del>	\$ 5,000.-
<b>ESTIMATED TOTAL BASE BID</b>							<b>\$ 3,449,819.-</b>
<b>ALTERNATE "A"</b>							
1	1	LS	237110	600-1.2.2.10	High-lining by the Contractor	<del>                    </del>	\$ 7,500.-
2	-750	LF	237110	600-1.2.1.3	High-lining Removed by Contractor (Base Bid Item 73)	\$ 18.-	<del>\$ 13,500.-</del>
<b>ESTIMATED TOTAL ALTERNATE "A"</b>							<b><del>\$ 6,000.-</del></b>
<b>ALTERNATE "B"</b>							
1	45	EA	237110	306-1.6	Water Meter	\$ 75.-	\$ 3,375.-
2	7	EA	237110	306-1.6	Bypass Assembly For Cross and Tee Mainline 16-Inch and Larger	\$ 6,500.-	\$ 45,500.-



**BIDDING DOCUMENTS**

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
3	1	EA	237110	600-1.3.2.10	8-Inch to 12- Inch Cut-in Cross	\$ 2,850.-	\$ 2,850.-
4	5	EA	237110	600-1.3.2.10	8-Inch to 12- Inch Cut-in Tee	\$ 2,850.-	\$ 14,250.-
5	5	EA	237110	600-1.3.2.10	8-Inch to 12-Inch Cut-in Elbow	\$ 2,600.-	\$ 13,000.-
6	5	EA	237110	600-1.3.2.10	16-Inch and Larger Cut-in Cross	\$ 4,000.-	\$ 20,000.-
7	2	EA	237110	600-1.3.2.10	16- Inch and Larger Cut-in Tee	\$ 3,800.-	\$ 7,600.-
8	2	EA	237110	600-1.3.2.10	16-Inch Cut-in Elbow	\$ 3,250.-	\$ 6,500.-
9	2	EA	237110	600-1.3.2.10	Installation of 20-Inch by 16-Inch Reducer	\$ 3,000.-	\$ 6,000.-
10	29	EA	237110	600-1.4.9	Cut and Plug of Existing System by Contractor	\$ 1,050.-	\$ 30,450.-
11	29	EA	237110	600-1.3.2.10	6-Inch Through 16-Inch Connections to the Existing System by Contractor	\$ 3,200.-	\$ 92,800.-
12	1	EA	237110	600-1.3.2.10	Installation of 20-Inch by 12-Inch Reducer	\$ 3,000.-	\$ 3,000.-
13	2	EA	237110	600-1.3.2.10	Installation of 20-Inch by 16-Inch Reducer	\$ 3,000.-	\$ 6,000.-
<b>ESTIMATED TOTAL ALTERNATE "B"</b>							<b>\$ 251,325.-</b>
<b>ESTIMATED TOTAL BASE BID PLUS ALTERNATES "A" AND "B"</b>							<b>\$ 3,695,144.-</b>

TOTAL BID PRICE FOR BID (Items 1 through 95, PLUS Alternate "A", item 1 through 2 and Alternate "B", items 1 through 12, inclusive) amount written in words:

*Three million six hundred and ninety five thousand one hundred and forty four dollars and no cents*

**BIDDING DOCUMENTS**

The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on the Bid form. If an addendum or addenda has been issued by the City and not noted as being received by the Bidder, this proposal shall be rejected as being **non-responsive**. The following addenda have been received and are acknowledged in this bid: A, B, C.

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

TERRY CAMERON, PRESIDENT

AUSTIN CAMERON, SEC.-TREAS.

STEVE COKER, VICE PRESIDENT

DEREK FRANKEN, VICE PRESIDENT

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.

Bidder: TC CONSTRUCTION CO. INC.

Title: SECRETARY

Business Address: 10540 PROSPECT AVE., SANTEE, CA. 92071

Place of Business: SAME

Place of Residence: N/A

Signature:  AUSTIN CAMERON

## BIDDING DOCUMENTS

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### NOTES:

- A. The City shall determine the low Bid based on the Base Bid PLUS Additive Alternates “A” and “B”.
- B. After the low Bid has been determined, the City may award the Contract for the Base Bid alone or if applicable, for the Base Bid plus any combination of additive alternate selected in the City’s sole discretion.
- C. 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.
- D. 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.
- E. 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.
- F. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.
- G. All extensions of the unit prices bid will be subject to verification by the City. In the case of inconsistency or conflict between the product of the Quantity x Unit Price and the Extension, the product shall govern.
- H. 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.
- I. 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.

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 <sup>①</sup>	WHERE CERTIFIED <sup>②</sup>	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>R+C Structures</u> Address: <u>11615 La Mirada Drive</u> City: <u>San Marcos</u> State: <u>CA</u> Zip: <u>92069</u> Phone: <u>760-744-3355</u>	Constructor	Sewer manholes	\$49,450.00			
Name: <u>McGrath Consulting</u> Address: <u>P.O. Box 20205</u> City: <u>El Cajon</u> State: <u>CA</u> Zip: <u>92021</u> Phone: <u>619-250-2025</u>	Designer	WPCP	\$485.00	ELBE	City	
Name: <u>Portillo Concrete</u> Address: <u>3527 Citrus Street</u> City: <u>Lemon Grove</u> State: <u>CA</u> Zip: <u>91945</u> Phone: <u>619-446-4639</u>	Constructor	Concrete Flatwork	\$191,700.00			

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



**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>HMS Construction</u> Address: <u>1047 Lamirada</u> City: <u>Vista</u> State: <u>CA</u> Zip: <u>92081</u> Phone: <u>760-27-9808</u>	Constructor	Traffic Loops	<del>\$4,388.00</del> \$4,388.00			
Name: <u>Video Fact</u> Address: <u>4150 Merritt Blvd</u> City: <u>Lamesa</u> State: <u>CA</u> Zip: <u>91941</u> Phone: <u>619-442-0080</u>	Constructor	Video Pre-existing Conditions	\$1,600.00			
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	CCTV	\$3,045.00	ELBE	City	

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- |   |        |  |         |
|---|--------|--|---------|
| 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.**



**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: Brian F. Smith + Associates Address: 14010 Poway Road Ste A City: Poway State: CA Zip: 92064 Phone: 858-679-8218	Constructor	Archeo / Paleo	\$31,565.00	SUBE	city	
Name: American Asphalt South Address: PO BOX 310036 City: Fontana State: CA Zip: 92331 Phone: 909-427-8276	constructor	Slurry seal crack seal	\$66,185.00			
Name: Luz aich Striping Inc Address: PO BOX 2426 City: El Cajon State: CA Zip: 92024 Phone: 619-443-7755	Constructor	striping	\$23,254.00	ELBE	city	

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.**



**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>The Bodhi Group</u> Address: <u>5480 Baltimore Drive Ste 207</u> City: <u>Lamesa</u> State: <u>CA</u> Zip: <u>91942</u> Phone: <u>858-513-1409</u>	<u>constructor</u>	<u>Testing / monitoring, transporting / disposal of hazardous contaminated waste and soil</u>	<u>\$67,102.00</u>	<u>ELBE</u>	<u>City</u>	
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      |

**The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.**

**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: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
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      |

**The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.**



**BIDDING DOCUMENTS**

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

Bidder shall list all Subcontractors described in the Bidder's *Base Bid* whose percentage of work will increase or decrease if alternates are selected for award. Bidder shall also list additional Subcontractors not described in the Bidder's *Base Bid* who, as a result of the alternates, will perform work or labor, or render services, or specially fabricate and install a portion [type] of work or improvements in an amount in excess of 0.5%.. 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.

ADDITIVE/DEDUCTIVE ALTERNATE	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: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
	Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
	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

**The Bidder will not receive any subcontracting participations percentages if the Bidder fails to submit the required proof of certification.**

# SEWER AND WATER GROUP 957

## CONTRACTOR'S RESPONSIBILITIES

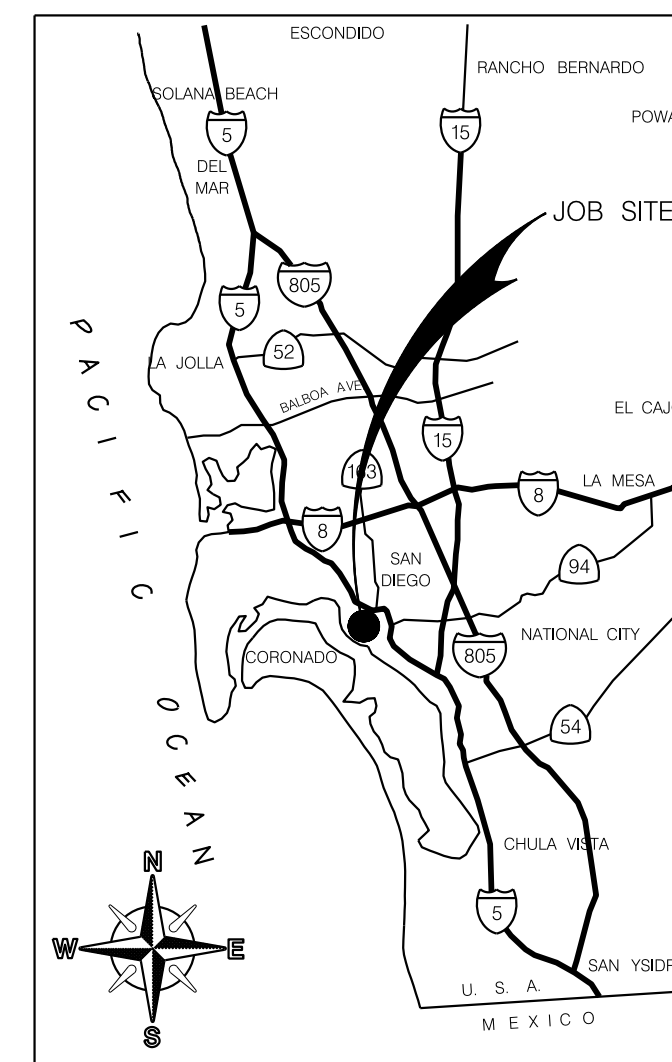
- PURSUANT TO SECTION 4216 OF THE CALIFORNIA GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION, YOU MUST CONTACT THE REGIONAL NOTIFICATION CENTER (E.G., UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.
- NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SDG&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES, (I.E., 69 KV & HIGHER)
- LOCATE AND RECONNECT ALL SEWER LATERALS. LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. LATERAL RECORDS ARE AVAILABLE AT THE PUBLIC UTILITIES DEPARTMENT, 2797 CAMINITO CHOLLAS. LOCATE THE IMPROVEMENTS THAT WILL BE AFFECTED BY LATERAL REPLACEMENTS.
- EXCAVATE AROUND WATER METER BOX (I.E., CITY PROPERTY SIDE) TO DETERMINE IN ADVANCE, THE SIZE OF EACH SERVICE BEFORE TAPPING MAIN.
- CITY FORCES, WHERE SPECIFIED OR SHOWN ON THE PLANS, WILL MAKE PERMANENT CUTS AND PLUGS AND CONNECTIONS.
- KEEP EXISTING MAINS IN SERVICE IN LIEU OF HIGH-LINING, UNLESS OTHERWISE SPECIFIED OR SHOWN ON PLANS.
- THE LOCATIONS OF EXISTING BUILDINGS AS SHOWN ON THE PLANS ARE APPROXIMATE.
- KEEP STORM DRAIN INLETS 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 RECORDED INFORMATION ONLY AND ARE SOLELY FOR YOUR CONVENIENCE. THE CITY DOES NOT GUARANTEE THAT IT HAS REVIEWED ALL AVAILABLE DATA PRIOR TO EXCAVATION. YOU MUST VERIFY 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.
- THE CITY'S PUBLIC UTILITIES DEPARTMENT, 619-527-3945 (619-527-7465 FOR TRANSMISSION MAINS 16" AND LARGER), SHALL BE NOTIFIED BY THE CONTRACTOR 20 WORKING DAYS PRIOR TO BEGINNING OF WORK THAT INVOLVES SHUTTING DOWN PIPELINES, HIGH-LINING, CUTTING AND PLUGGING OFF, MAKING CONNECTION TO THE EXISTING 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.
- IF ANY DUCTILE IRON PIPE IS TO BE INSTALLED THAT THE CORROSION SECTION BE NOTIFIED AT 619-247-9290 TO REVIEW CORROSION CONTROL EQUIPMENT.

## LIMITS OF WORK

SHEET NO.	DISCIPLINE CODE	TITLE	LIMITS	PIPE		LENGTH (FT)
				SIZE (IN)	MATERIAL	
1	G-1	COVER SHEET				
<b>SEWER</b>						
2	C-1	STATE ST	WEST C ST TO WEST A ST	8	PVC	648.30
3	C-2	WEST B ST	INDIA ST TO STATE ST	8	PVC	551.00
4	C-3	F ST	BET 4TH TO 6TH AVE.	8	PVC	282.00
5	C-4	F ST	BET 4TH TO 6TH AVE.	15	PVC	74.50
5	C-4	F ST	22ND ST TO 24TH ST	8	PVC	521.00
<b>WATER</b>						
6	C-5	INDIA ST	BROADWAY TO WEST C ST	12	PVC	668.42
7	C-6	INDIA ST	WEST B ST TO WEST C ST	12	PVC	750.15
8	C-7	WEST B ST	KETTNER BLVD TO INDIA ST	12	PVC	249.24
9	C-8	STATE ST	WEST C ST TO WEST B ST	12	PVC	355.92
9	C-8	WEST F ST	STATE ST TO IST ST	16	PVC	846.03
10	C-9	WEST MARKET ST	STATE ST TO FRONT ST	12	PVC	575.80
11	C-10	3RD AVE AND K ST	J ST TO 4TH AVE	12	PVC	560.74
12	C-11	4TH AVE	BROADWAY TO C ST	12	PVC	408.39
13	C-12	F ST	4TH AVE TO 7TH AVE	16	PVC	820.00
14	C-13	F ST	7TH AVE TO 8TH AVE	16	PVC	326.00
15	C-14	F ST	8TH AVE TO 10TH AVE	20	PVC	574.00
15	C-14	F ST	10TH AVE TO PARK BLVD	16	PVC	500.00
16	C-15	F ST	11TH AVE TO BET. 11TH AV & PARK AVE	8	PVC	200.00
16	C-15	F ST	PARK AVE TO 13TH ST	16	PVC	273.00
17	C-16	F ST	9TH AVE TO 10TH AVE	12	PVC	281.21
18	C-17	F ST	21ST AVE TO 24TH AVE	16	PVC	775.77
19	C-18		CURB RAMP LOCATION			
20	C-19		CURB RAMP NOTES TABLE			
21	C-20		CURB RAMP DETAILS			
22	C-21		STREET RESURFACING			
23	C-22		CITY FORCES			
24	C-23		THRUST BLOCK & ANCHOR TABLE / CROSS MAINLINE BYPASS DETAILS			
25	C-24		SEWER & WATER MISC DETAILS			
26	C-25		WATER MISC DETAILS			
27	C-26		WATER POLLUTION CONTROL SITE PLANS			
28	C-27		SEWER/WATER ABANDONMENT SHEET			
	T-1		TRAFFIC PLANS			
				TOTAL SEWER		2,076.80
				TOTAL WATER		8,152.02

## WORK TO BE DONE

CONSTRUCTION CONSISTS OF REPLACEMENT OF 958 FEET OF VITRIFIED CLAY (VC) SEWER PIPE AND 2,851 FEET OF CAST IRON WATER PIPE. THE 8 AND 14 INCH SEWER PIPE AND 6 TO 20 INCH WATER PIPE WILL BE REPLACED WITH NEW POLYVINYL CHLORIDE (PVC) PIPE. IN ADDITION, THE PROJECT WILL INSTALL 1,101 FEET OF NEW 8 TO 16 INCH PVC SEWER PIPE AND 6,098 FEET OF WATER PIPE, AND ABANDONMENT OF ABOUT 532 FEET OF SEWER AND 3,800 FEET OF WATER PIPE.



VICINITY MAP  
NOT TO SCALE

## DISCIPLINE CODE

- G GENERAL
- C CIVIL
- T TRAFFIC CONTROL

## STORM WATER PROTECTION

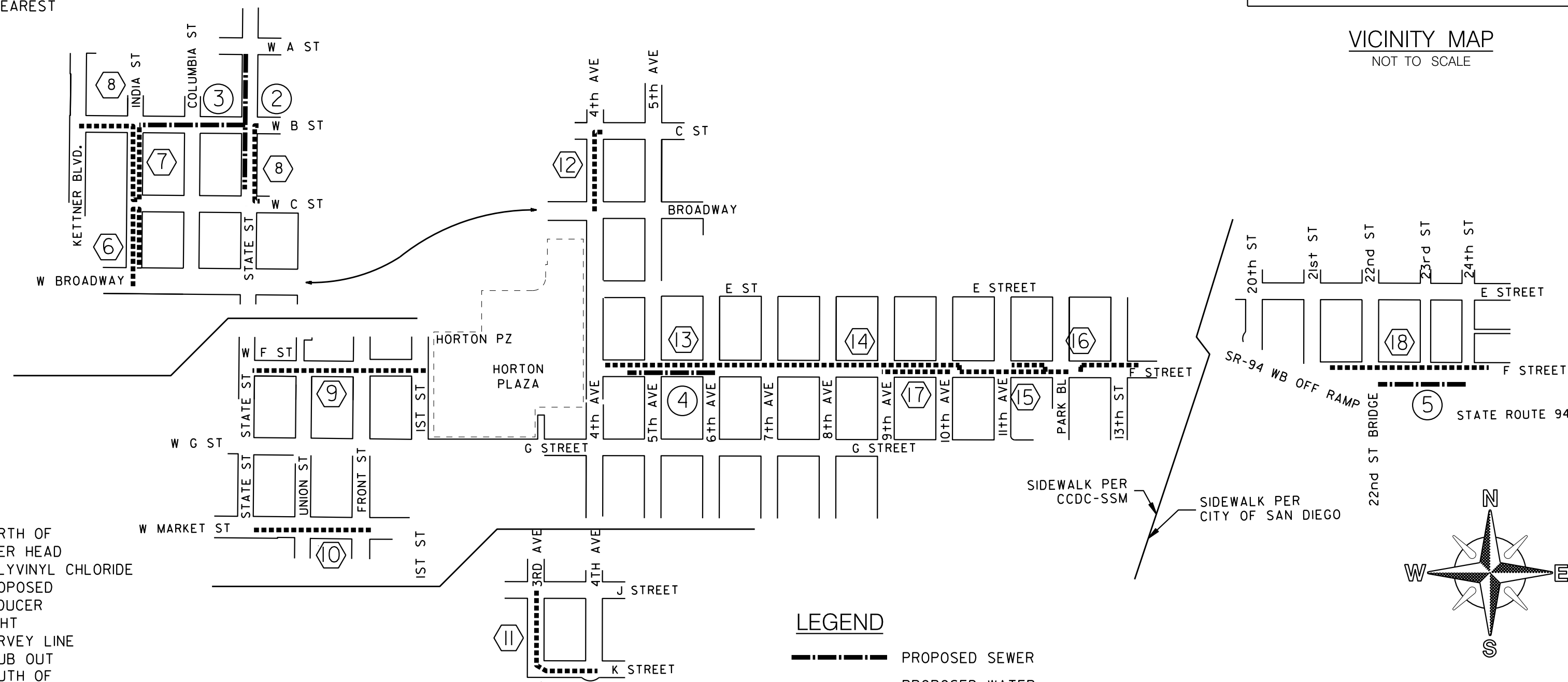
- THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER NO. R9-2007-0003 AND WPCP.

## SIDEWALK CONSTRUCTION NOTES

- ALL SIDEWALK REPLACEMENT WEST OF HWY 5 SHALL BE CONSTRUCTED PER CENTRE CITY DEVELOPMENT CORPORATION STREETSCAPE MANUAL (CCDC-SSM) DETAILS INCLUDED IN SPECIFICATIONS, APPENDIX H.
- ALL SIDEWALK REMOVAL IN THE CCDC ROW SHALL BE BY SAW-CUT TO THE NEAREST COLD/EXPANSION JOINT AND SHALL BE REPLACED PER CCDC-SSM WITH EXPANSION JOINT AT SAW-CUTS.
- FOR CCDC ROW SEE PROJECT SPECIFICATION APPENDIX H.

## 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	---
EX STREET LIGHT	---
GAS MAIN	---
ELEC. COND., TEL. COND., CATV	---
RAILROAD, TROLLEY TRACKS	---



## LEGEND

- PROPOSED SEWER
- PROPOSED WATER
- ② SEWER SHT NO.
- ⑥ WATER SHT NO.

## ABBREVIATIONS

ABAND	ABANDON	EB	ENCASED BURIED	N/O	NORTH OF
ABAND'D	ABANDONED	EL, ELEV	ELEVATION	OVHD	OVER HEAD
AC	ASBESTOS CEMENT PIPE	ELEC	ELECTRIC	PVC	POLYVINYL CHLORIDE
AHD	AHEAD	EX, EXIST	EXISTING	PROP	PROPOSED
ASSY	ASSEMBLY	E/O	EAST OF	RED	REDUCER
BK	BACK	F	FLANGE	RT	RIGHT
BTWN	BETWEEN	FH	FIRE HYDRANT	S	SURVEY LINE
BV	BUTTERFLY VALVE	FS	FIRE SERVICE	SO	STUB OUT
CATV	CABLE TV	GV	GATE VALVE	S/O	SOUTH OF
CI	CAST IRON PIPE	HDPE	HIGH-DENSITY POLYETHYLENE	S/W	SEWER
C	CENTER LINE	HP	HIGH PRESSURE	TEL	TELEPHONE
COND	CONDUIT	IE	INVERT ELEVATION	UNK	UNKNOWN
CONT	CONTINUED	LT	LEFT	VC	VITRIFIED CLAY PIPE
CONTR	CONTRACTOR	MJ	MECHANICAL JOINT	WM	WATER METER
DB	DIRECT BURIED	MTD	MULTIPLE TELEPHONE DUCT	WTR	WATER
				W/O	WEST OF

## CONSTRUCTION CHANGE / ADDENDUM

CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.

## WARNING

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

## CITY OF SAN DIEGO PUBLIC WORKS PROJECT



## IMPROVEMENTS

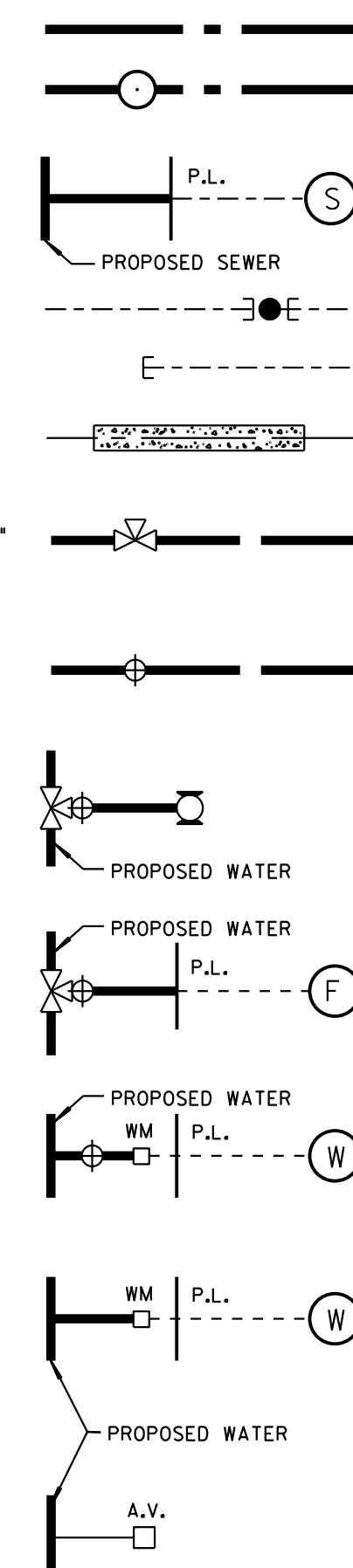
- TRENCH RESURFACING
- SEWER MAIN
- SEWER MANHOLE
- 4" SEWER LATERAL WITH C.O. UNLESS OTHERWISE SPECIFIED
- ABANDON EX MANHOLE
- SLURRY FILL ABANDONED SEWER MAIN
- CONCRETE PROTECTION FOR EXIST SEWER PIPE
- WATER MAIN & APPURTENANCES
- VALVES WITH CAPS AND WELLS
- 6" FIRE HYDRANT ASSEMBLY & MARKER 3-PORT UNLESS SPECIFIED AS 2-PORT
- FIRE SERVICE CONNECTION & ASSEMBLY
- 4" WATER SERVICE AND LARGER, CONNECT TO EX. ASSEMBLY
- 1" WATER SERVICE UNLESS OTHERWISE SPECIFIED

## LEGEND

### STANDARD DRAWINGS

- SDG-107 TYPE A, SDG-108
- SDS-104, SDS-110 (TYPE C)
- M-3, SDS-106, SDS-107, SDS-108, SDS-120, SDM-113
- SDS-102, SDS-103, SDS-104, SDS-105, SDS-110 (TYPE C), SDS-118
- SM-08
- SEE PLANS & SPECS
- SDS-116
- SDW-110, SDW-148, SDW-151, SDW 152 TRUST AND ANCHOR BLOCK FOR 16" AND 20" SEE SHEET 24
- SDW-109, SDW-152, WY-05 SDW-154, SDW-163
- SDW-104, SDW-109, SDW-148, SDW-152, SDW-153, SEE SHEET 26 DETAIL "M" FOR EX. FIRE HYDRANT REPLACEMENT
- SDW-109, SDW-118, SDW-148, SDW-152, SDW-153, SEE SHEET 26 DETAIL "N" FOR EX. FIRE SERVICES REPLACEMENT
- SDW-107, SDW-134, SDW-135, SDW-136, SDW-137, SDW-138, SDW-148, SDW-149, SDW-150, WS-03, SEE SHEET 26 DETAIL "L" FOR EX. WATER SERVICES REPLACEMENT
- SDW-107, SDW-134, SDW-135, SDW-136, SDW-137, SDW-138, SDW-148, SDW-149, SDW-150, WS-03, SEE SHEET 25 DETAIL "I" FOR EX. WATER SERVICES REPLACEMENT
- SDW-117, SDW-148, SDW-159
- SDW-154
- FOR DETAIL, SEE SHEET 24
- WP-03, SEE SPECIFICATIONS
- SDW-162
- M-13
- SDW-170, SDW-171, SDW-172, SDW-173

### SYMBOL



## CONCRETE PROTECTION FOR EXIST SEWER PIPE

## WATER MAIN & APPURTENANCES

## VALVES WITH CAPS AND WELLS

## 6" FIRE HYDRANT ASSEMBLY & MARKER 3-PORT UNLESS SPECIFIED AS 2-PORT

## FIRE SERVICE CONNECTION & ASSEMBLY

## 4" WATER SERVICE AND LARGER, CONNECT TO EX. ASSEMBLY

## 1" WATER SERVICE UNLESS OTHERWISE SPECIFIED

## AIR & VACUUM VALVE

## 16" AND LARGER BYPASS

## CROSS MAINLINE BYPASS

## CUTTING AND PLUGGING ABANDONED WATER MAIN/SLURRY FILL ABANDONED WATER MAIN 16" AND LARGER

## PIPE SUPPORT FOR UNDERCUT AC WATER MAIN

## SURVEY MONUMENT

## HIGHLIGHTING BY CONTRACTOR

## FOR ADDITIONAL SYMBOLS SEE RESURFACING, CURB RAMP, HORIZONTAL ALIGNMENT COORDINATE AND TRAFFIC CONTROL SHEETS.

## FIELD DATA

BENCHMARK: SWBP 54TH STREET & EL CAJON BLVD. = 405,585 7 NEBP 15TH ST & G ST = 41,68 MSL based on NGVD 29 feet as shown in City of San Diego bench book.

FIELD NOTES: The Basis of Bearings for this project was derived from a previous STATIC GPS survey, using R05 14492 NAD 83 feet, zone 6 (epoch 1991.35). Utilizing RTK/GPS field procedures with a CALVRS base station located at OBRC and constraining to GPS 174 (PT#2) & GPS 17 (PT#1) IE N9° 26' 35"

DATUM: MEAN SEA LEVEL

STREETS REQUIRING 12" TRENCH CAP:

'B' STREET

'F' STREET

4TH STREET

G-1

## PLANS FOR THE CONSTRUCTION OF SEWER AND WATER GROUP JOB 957 COVER SHEET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 1 OF 28 SHEETS				WATER WBS	B-11154
APPROVED: <i>[Signature]</i> 02-13-13				SEWER WBS	B-11152
FOR CITY ENGINEER	DATE	PROJECT MANAGER		JIM HAGHGOUY	
DESCRIPTION	BY	APPROVED	DATE	FILMED	ALIMOHAMMADIAN
ORIGINAL	AM/SS				PROJECT ENGINEER
					SEE SHEETS
					CCS27 COORDINATE
					SEE SHEETS
					CCS83 COORDINATE
CONTRACTOR	DATE STARTED	INSPECTOR		DATE COMPLETED	36689-01-10

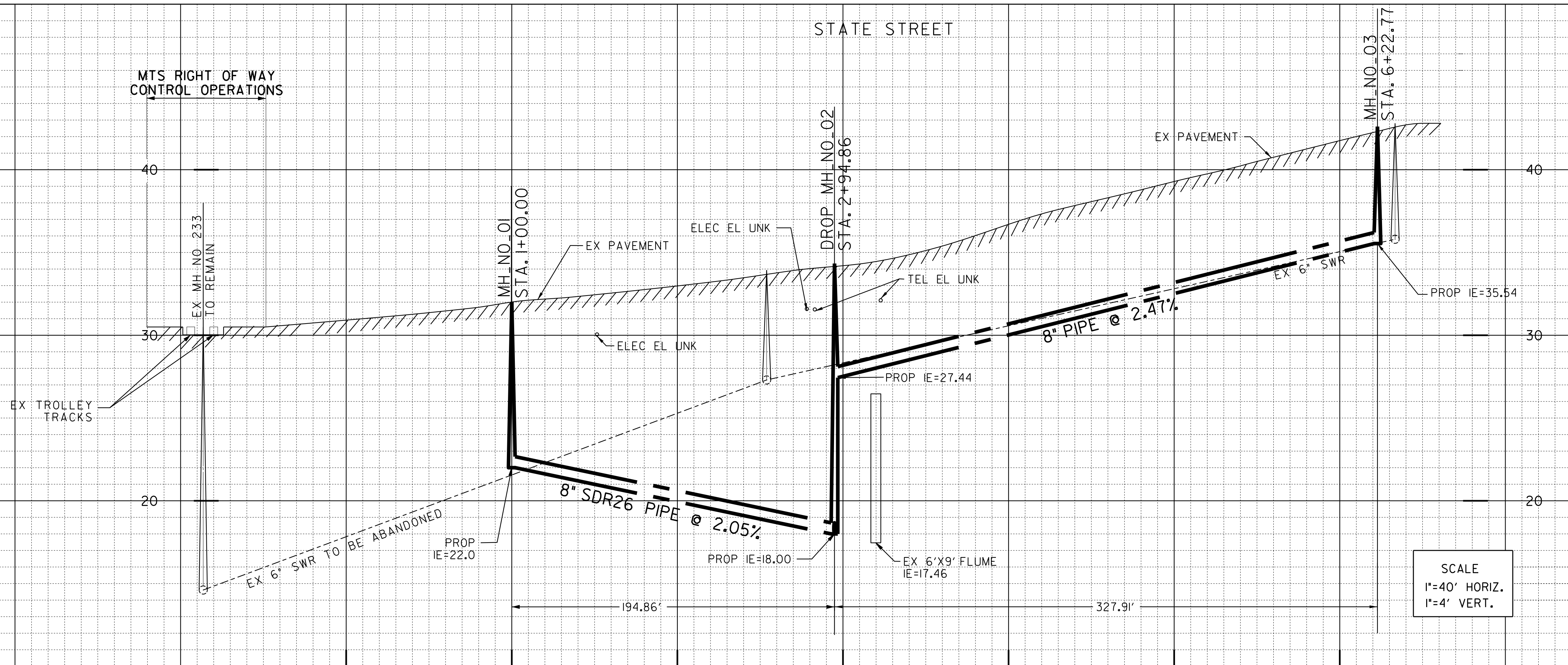


SEWER AND WATER GROUP 957 COVER SHEET



STATE STREET

MTS RIGHT OF WAY CONTROL OPERATIONS



POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (ft)	(STRAIGHT)
POB	1+00.00	1841980.99	6279773.04	STRAIGHT	194.86	N 0°25'50.06" E	
PI	6+22.77	1842175.85	6279774.52	STRAIGHT	327.91	N 0°25'51.64" E	
POE	7+48.31	1842503.75	6279776.98				

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

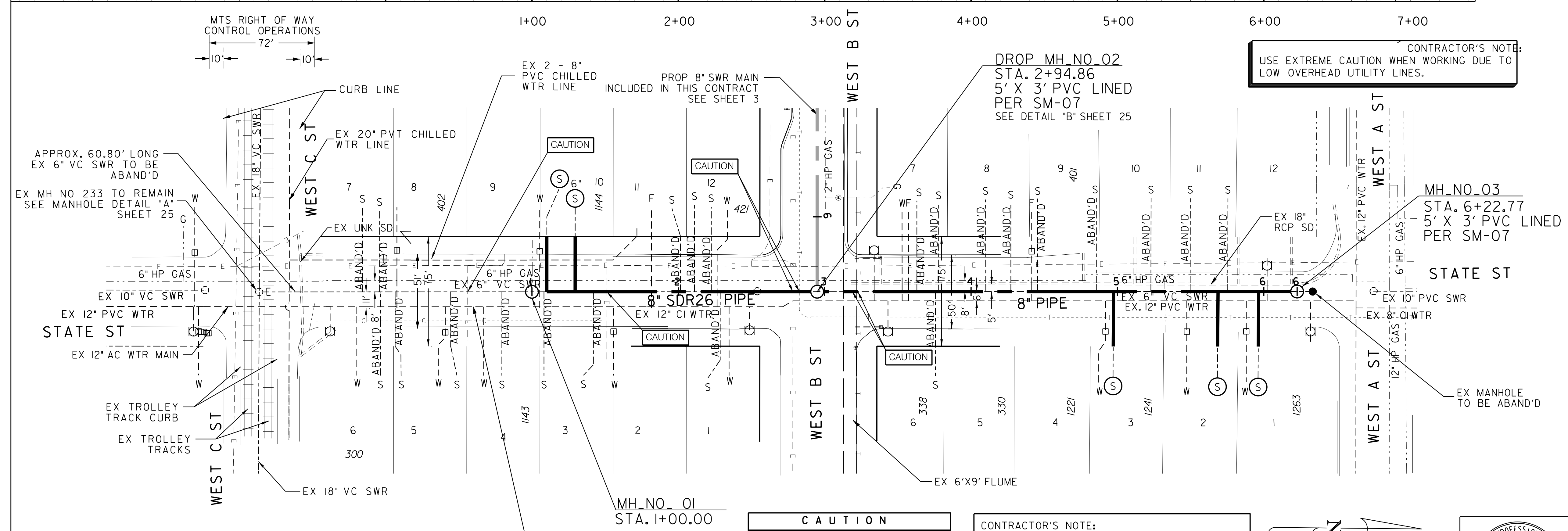
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 2+10.00	STA. 4+20.39	210.39

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.

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

MTS NOTE:  
WARNING HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM (OCS) NOT SHOWN

MTS RIGHT OF WAY CONTROL OPERATIONS  
72'  
10' 10'



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

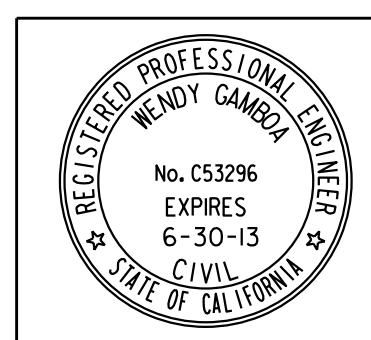
- REFERENCE:
- WATER: 30004-1-D, 30004-17-D, 30004-19-D, 13949-2-D, 24903-12-D, 31874-2-D, AE105-2, 24903-24-D, 14748-2-D, 19643-6-D, 19643-6-D, 19643-6-D, 181-5-L, 1-225A, 15-274, 200-1716D
  - SEWER: SDGC013P120RI-37 (TEL LEVEL 3), 18576-24-D, 100' SCALE/FIELD BOOK: F21S, F22S, 18921-A3, 231, CCDC-SSM
  - STORM DRAIN: 19643-6-D, 181-5-L, 1-225A, 15-274, 200-1716D
  - GAS: 1-225A, 15-274
  - ELECTRIC: SDGC013P120RI-37 (TEL LEVEL 3), 18576-24-D
  - CABLE TV: NONE
  - TELEPHONE: SDGC013P120RI-37 (TEL LEVEL 3), 18576-24-D
  - IMPROVEMENTS: 100' SCALE/FIELD BOOK: F21S, F22S, 18921-A3, 231, CCDC-SSM
  - THOMAS BROS.: 18921-A3, 231, CCDC-SSM
  - HGL: 231, CCDC-SSM
  - SIDEWALK: CCDC-SSM
- RETIREMENTS:  
719.74' - VC - 6' - 1971  
MH - 4X3 - 2 - 1971  
4" LATERAL - 17 - VC - 1971

NOTE:  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

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

CONTRACTOR'S NOTE:  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

SCALE 1"=40' FEET



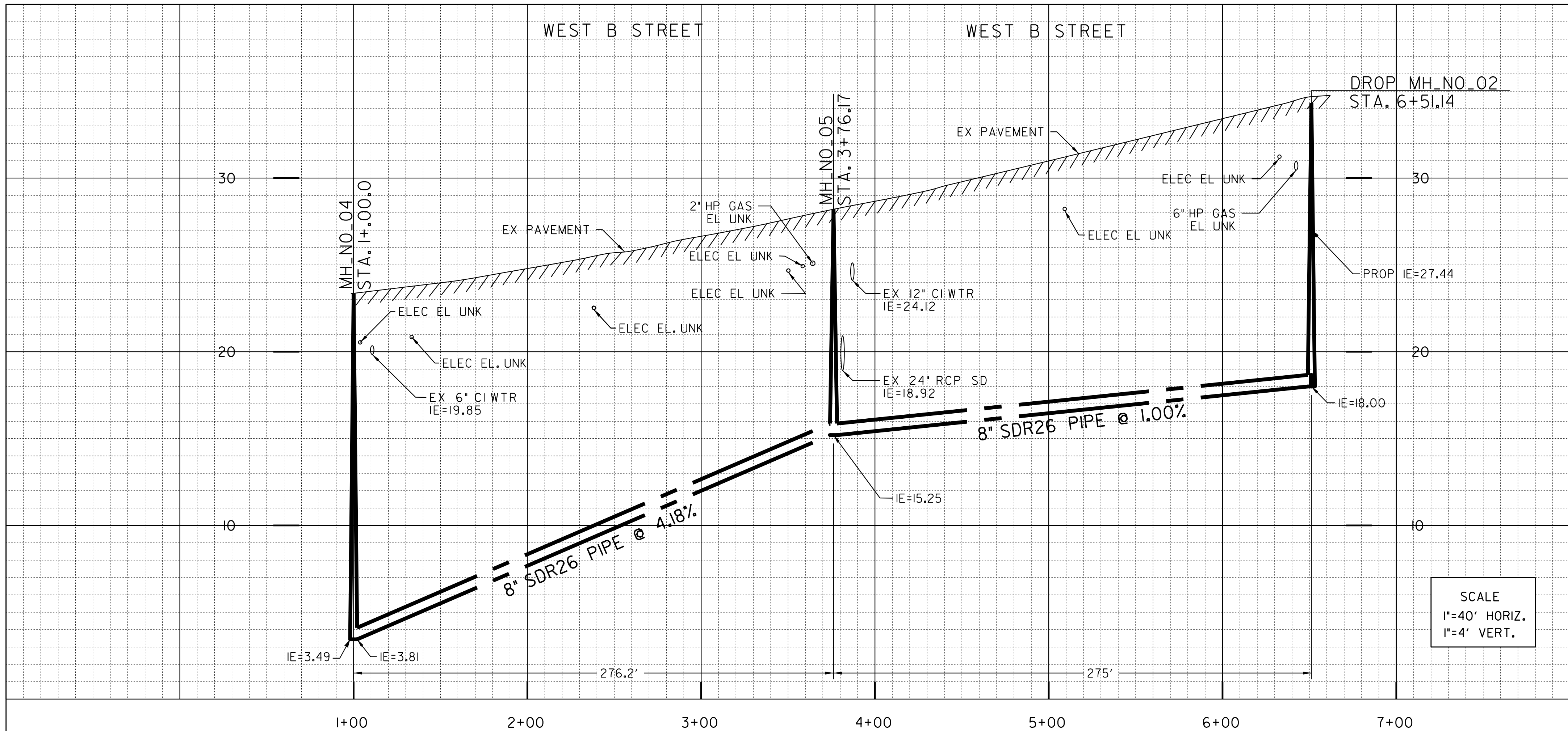
SEWER AND WATER GROUP 957  
STATE STREET  
WEST C ST TO WEST A ST

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 2 OF 28 SHEETS		WATER WBS N/A SEWER WBS B11152
FOR CITY ENGINEER	DATE 02-13-13	PROJECT MANAGER JIM HAGGOUY
DESCRIPTION ORIGINAL	BY AM/SS	APPROVED DATE FILMED
CHECKED BY ALI MOHAMMADIAN PROJECT ENGINEER		198-1719
6280407-1838444		CCS88 COORDINATE
CONTRACTOR	DATE STARTED	36689-2-D
INSPECTOR	DATE COMPLETED	

STATE STREET

C-1



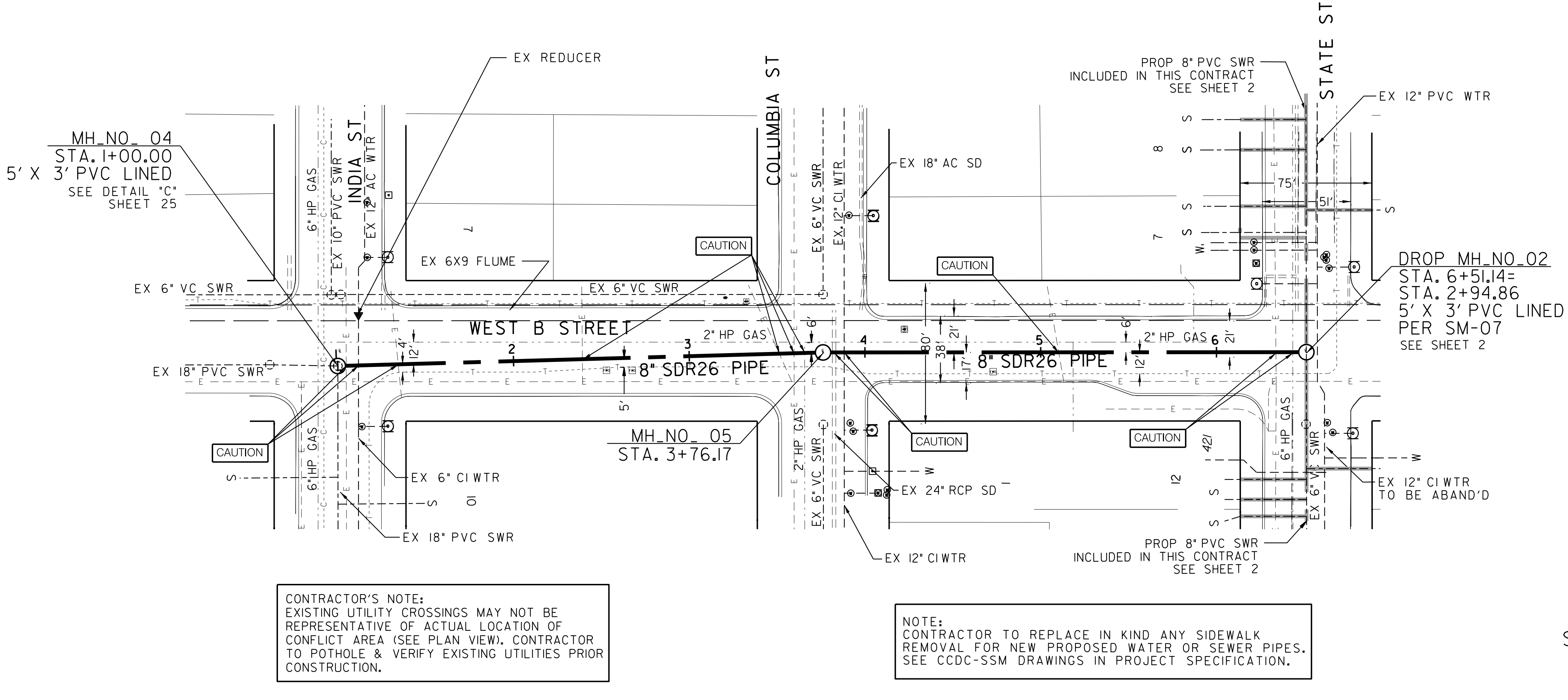


POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00" (STRAIGHT))
POB	1+00.00	1842172.95	6279223.44	STRAIGHT	276.17	N 88°54'53.97" E
PI	3+76.17	1842178.17	6279499.56	STRAIGHT	274.97	S89°30'58.01" E
POE	6+51.14	1842175.85	6279774.52			

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00	STA. 3+76.17	276.17
STA. 3+76.17	STA. 6+51.14	274.97

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.

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



CONTRACTOR'S NOTE:  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

NOTE:  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

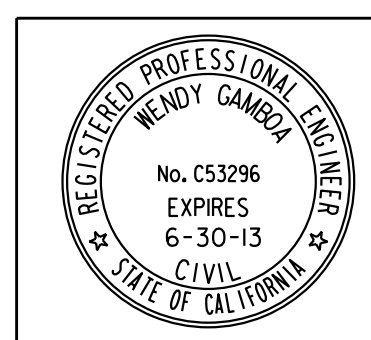
- REFERENCE:
- WATER: 22845-2-D, 18576-65-D
  - SEWER: 25001-3-D, 14748-2-D
  - STORM DRAIN: 181-5-L, 19643-6/7-D, 26114-2-D
  - GAS: 1-225A, 1-265
  - ELECTRIC: 200-1716D
  - CABLE TV: NONE
  - TELEPHONE: CS050IBC, SDGC013PI20RI-37(LLEVEL3)
  - IMPROVEMENTS: 19643-2-D, 19643-5-D
  - 100' SCALE/FIELD BOOK: F225
  - THOMAS BROS.: 1288-J3, 1289-A3
  - HGL: 231
  - SIDEWALK: CCDC-SSM

RETIREMENTS:  
NONE

C-2

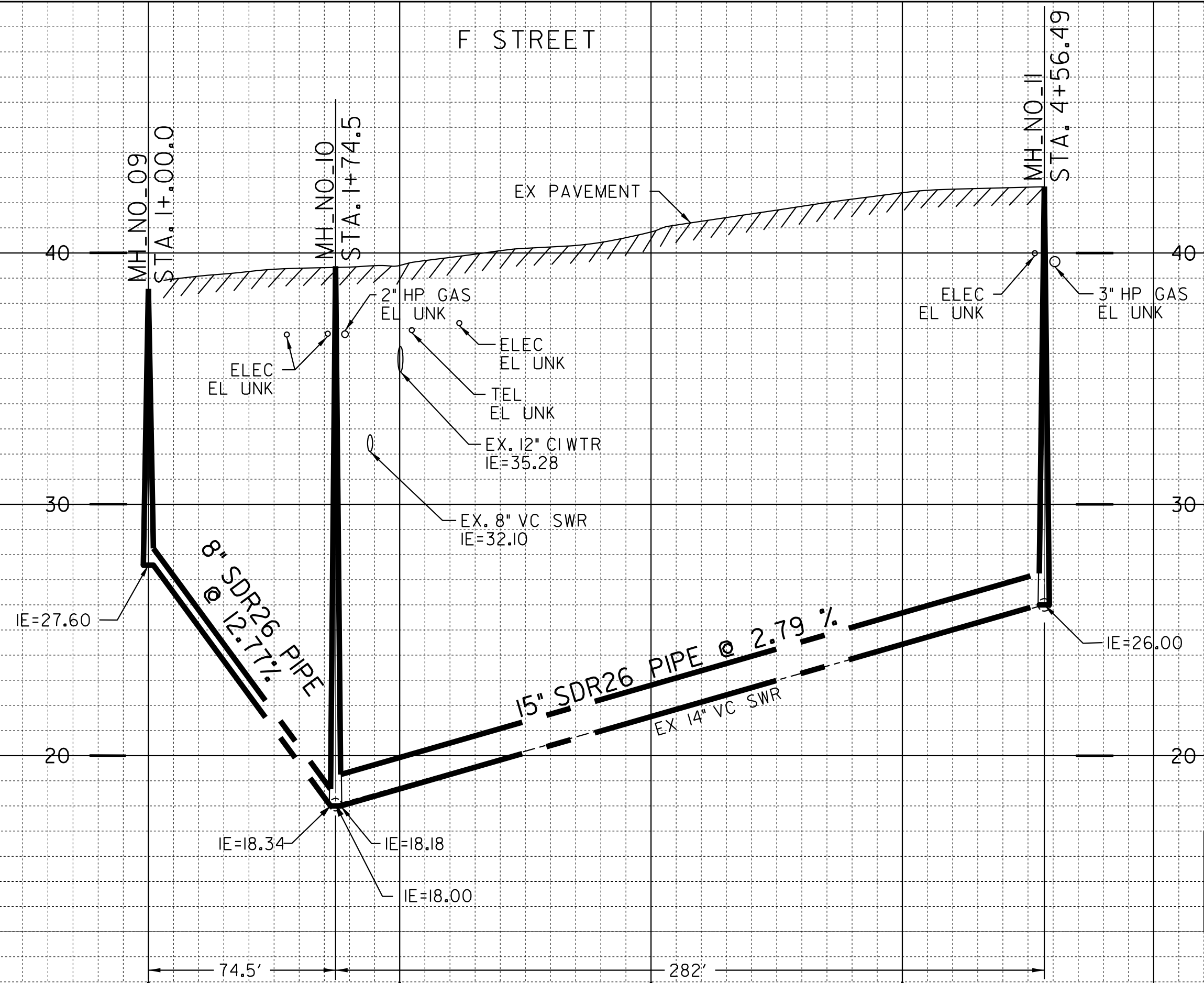
**SEWER AND WATER GROUP 957**  
WEST B STREET  
INDIA ST TO STATE ST

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 3 OF 28 SHEETS		WATER WBS: N/A SEWER WBS: B1152
FOR CITY ENGINEER: <i>[Signature]</i>	DATE: 02-13-13	PROJECT MANAGER: JIM HAGGOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	APPROVED: ALI MOHAMMADIAN PROJECT ENGINEER
		198-1719 CCS27 COORDINATE
		6280407-1838444 CCS83 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____	36689-3-D
INSPECTOR: _____	DATE COMPLETED: _____	



SCALE 1"=40' FEET

WEST B STREET

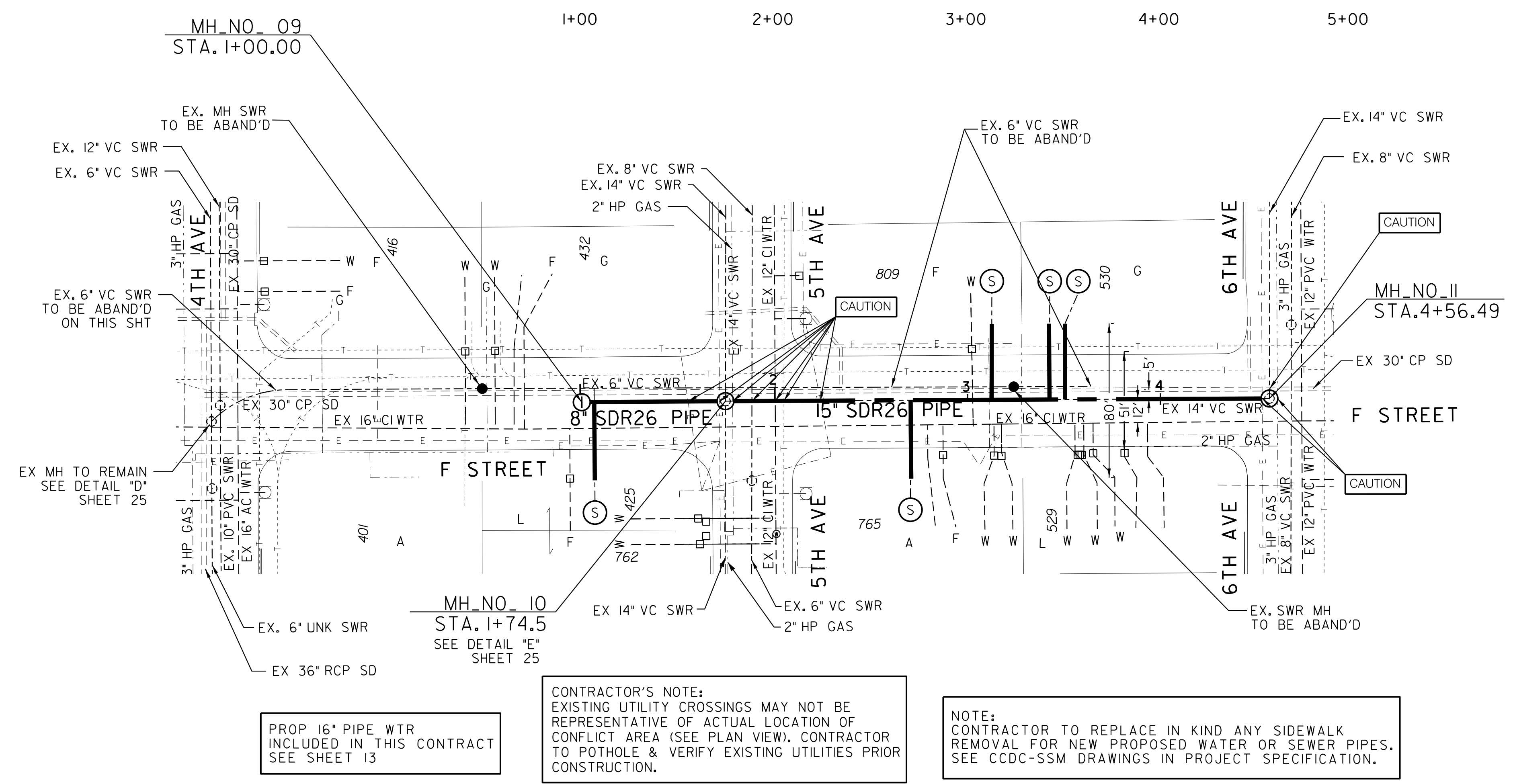


POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB	1+00.00	1840648.16	6281626.69	STRAIGHT	74.49	S 90°00'00.00" E
PI	1+74.49	1840648.16	6281701.18	STRAIGHT	282.00	S 89°51'04.26" E
POE	4+56.49	1840647.43	6281983.18			

ESTIMATED PALEONTOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00	STA. 1+74.50	74.50

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: 29045-12/14-D, 9443-D, I8322-4-D  
 SEWER: 20227-9-D, 8783-3-B, 8783-47-B  
 STORM DRAIN: 2345-D  
 GAS: 21735-9-D, 20227-9-D  
 ELECTRIC: 2345-D, 8783-47-B, 57 (50' SCALE)  
 I-114, I-162

CABLE TV: NONE  
 TELEPHONE: CS0303AD, CS0303BC, CS0303BD  
 IMPROVEMENTS: 21375-9-D  
 100' SCALE/FIELD BOOK: G22S  
 THOMAS BROS.: I289-C3  
 HGL: 231  
 SIDEWALK: CCDC-SSM

**RETIREMENTS:**

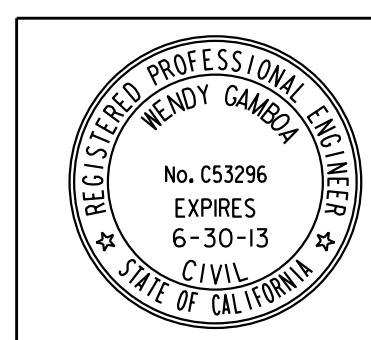
6" - VC - 315.52' - UNKNOWN  
 14" - VC - 282' - UNKNOWN  
 MH - 4X3 - 2 - UNKNOWN  
 4" LATERAL - 5 - VC - UNKNOWN

PROP 16" PIPE WTR INCLUDED IN THIS CONTRACT SEE SHEET 13

**CONTRACTOR'S NOTE:**  
 EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POT HOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

**NOTE:**  
 CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

SCALE 1"=40' FEET



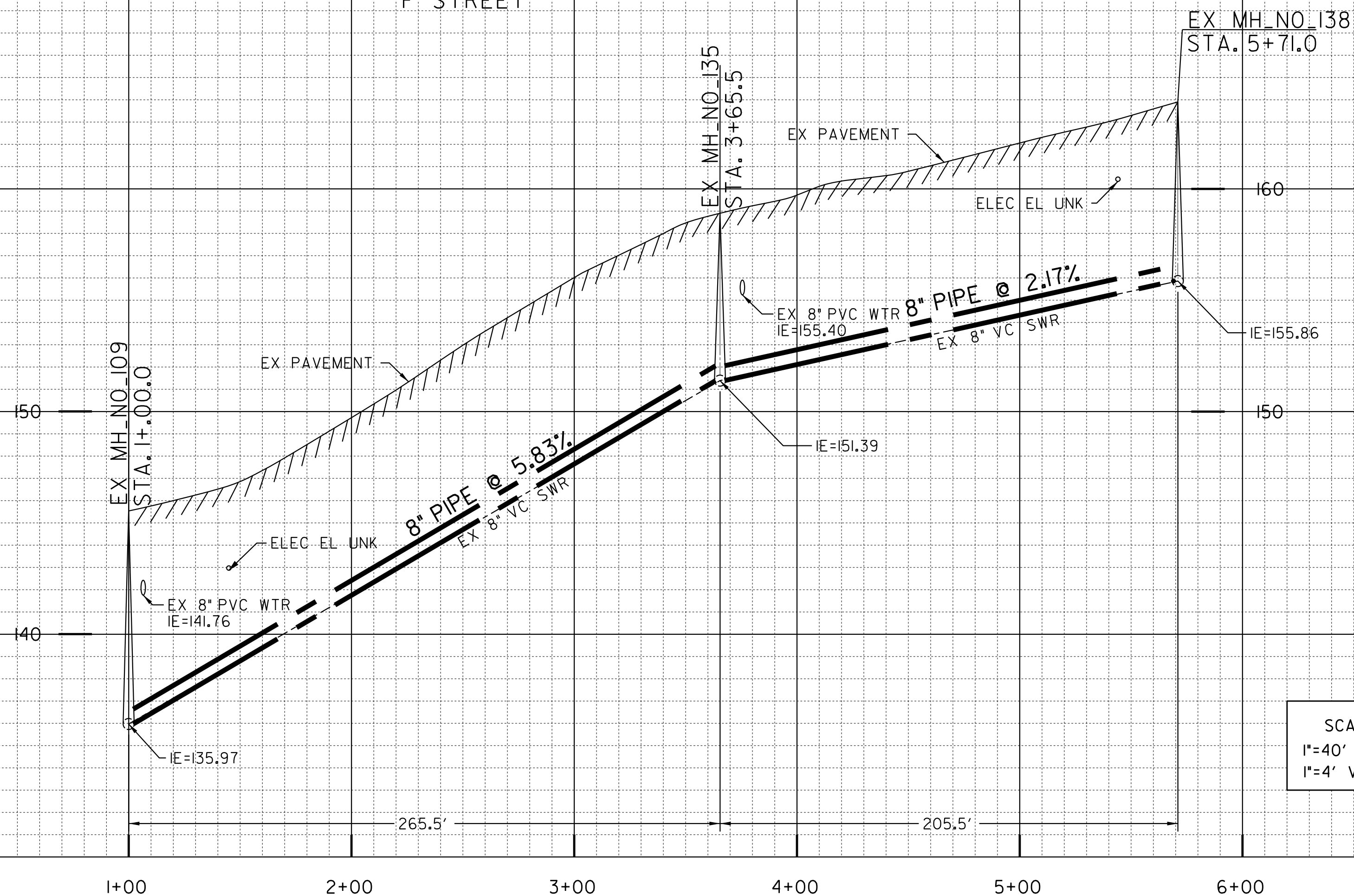
**SEWER AND WATER GROUP 957**  
**F STREET**  
 5TH AVE TO 6TH AVE

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 4 OF 28 SHEETS		WATER WBS: N/A SEWER WBS: B1152
FOR CITY ENGINEER: <i>[Signature]</i>	DATE: 02-13-13	PROJECT MANAGER: JIM HAGGOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	APPROVED: ALI MOHAMMADIAN
		PROJECT ENGINEER
		198-1719
		CCS27 COORDINATE
		6280407-1838444
		CCS83 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____	36689-4-D
INSPECTOR: _____	DATE COMPLETED: _____	

C-3

F STREET

F STREET

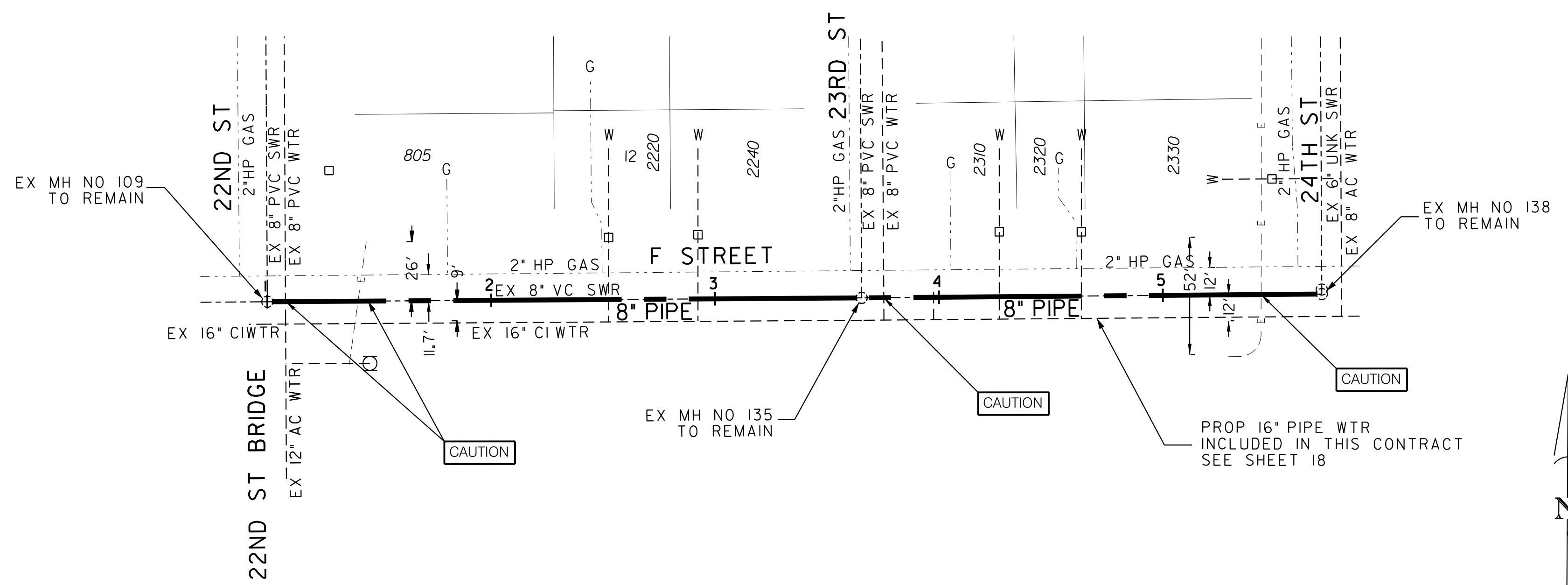


SCALE  
1"=40' HORIZ.  
1"=4' VERT.

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB	1+00.00	1840637.00	6286679.98	STRAIGHT	265.48	S 89°56'42.12" E
PI	3+65.48	1840636.75	6286945.46	STRAIGHT	205.53	N 89°57'12.28" E
POE	5+71.00	1840636.92	6287150.98			

REFERENCE:  
 WATER: 29045-12/14-D, 9443-D, 18322-4-D  
 SEWER: 20227-9-D, 8783-3-B, 8783-47-B, 29045-28-D  
 STORM DRAIN: NONE  
 GAS: 5-155  
 ELECTRIC: NONE  
 CABLE TV: NONE  
 TELEPHONE: NONE  
 IMPROVEMENTS: NONE  
 100' SCALE/FIELD BOOK: H22S  
 THOMAS BROS.: 1289-C3  
 HGL: 231

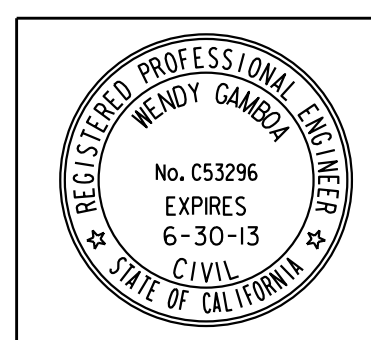
RETIREMENTS:  
 8" - VC - 471' - 1958  
 MH - 4X3 - 3 - 1958



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

CONTRACTOR'S NOTE:  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

SCALE 1"=40' FEET



**SEWER AND WATER GROUP 957**  
F STREET  
22ND ST TO 24TH ST

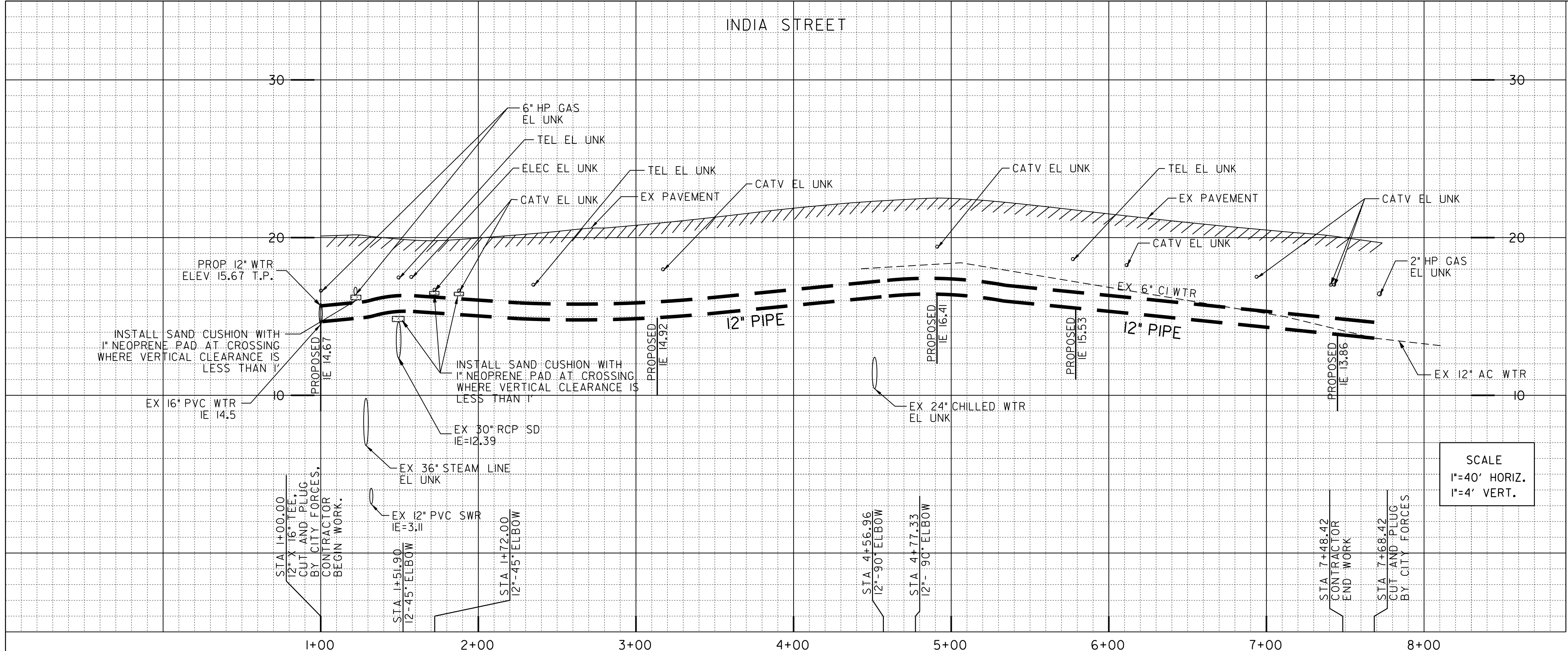
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 5 OF 28 SHEETS		WATER WBS: N/A SEWER WBS: B11152
FOR CITY ENGINEER: <i>W. Sam</i>	DATE: 02-13-13	PROJECT MANAGER: JIM HAGGOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	CHECKED BY: ALI MOHAMMADIAN
CONTRACTOR: _____		PROJECT ENGINEER: ALI MOHAMMADIAN
INSPECTOR: _____		198-1719
DATE STARTED: _____		CCS27 COORDINATE: 6280407-1838444
DATE COMPLETED: _____		CCS83 COORDINATE: 36689-5-D

F STREET

C-4



INDIA STREET



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

- ⑧ BY CONTRACTOR FURNISH AND INSTALL  
STA 5+78.99  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY
- ⑨ BY CONTRACTOR FURNISH AND INSTALL  
STA 7+45.08  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER
- ⑩ BY CITY FORCES AHD OF CONTRACTOR  
STA 7+68.42  
CUT AND PLUG;  
EX 12" AC WTR RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.

PRINCIPLE SETTING OUT LINE

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB	1+00.00	1841417.33	6279194.56	STRAIGHT	51.90	N 0°36'06.93" E
PI	1+51.90	1841469.23	6279195.11	STRAIGHT	20.10	N 45°36'06.93" E
PI	1+72.00	1841483.29	6279209.47	STRAIGHT	141.51	N 0°31'11.73" E
PI	3+13.51	1841624.80	6279210.75	STRAIGHT	143.45	N 0°31'11.73" E
PI	4+77.33	1841768.09	6279232.42	STRAIGHT	13.66	S 0°33'27.30" W
PI	4+90.98	1841754.43	6279232.29	STRAIGHT	88.00	S 0°06'29.02" W
PI	5+78.99	1841666.43	6279232.12	STRAIGHT	166.10	S 0°06'29.02" W
PI	7+45.08	1841500.33	6279231.81	STRAIGHT	23.33	S 0°30'03.23" W
POE	7+68.42	1841477.00	6279231.60			

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

**CONTRACTOR'S NOTE:**  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

**NOTE:**  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

**ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)**

BEGIN STATION	END STATION	APPROXIMATE LF
STA. 1+00	STA. 4+77.32	377.32

ACTUAL LIMITS SHALL BE DETERMINED BY THE PI/MONITOR(S) PRIOR TO CONSTRUCTION AND SHALL BE CONSISTENT WITH THE PROJECT'S MITIGATION AND MONITORING PROGRAM (MMRP).

**REFERENCE:**

<b>WATER:</b>	18217-8-D, 24283-3-D, 24035-4-D, 24035-7-D, 31874-2, 24283-D
<b>SEWER:</b>	22930-3-D, 22930-4-D
<b>STORM DRAIN:</b>	24283-3-D
<b>GAS:</b>	1-217
<b>ELECTRIC:</b>	NONE
<b>CABLE TV:</b>	NONE
<b>TELEPHONE:</b>	SDGC013PI23RI-40 (LEVEL 3)
<b>IMPROVEMENTS:</b>	NONE
<b>100' SCALE/FIELD BOOK:</b>	F22S
<b>THOMAS BROS.:</b>	I288-J3
<b>HGL:</b>	231
<b>SIDEWALK:</b>	CCDC-SSM

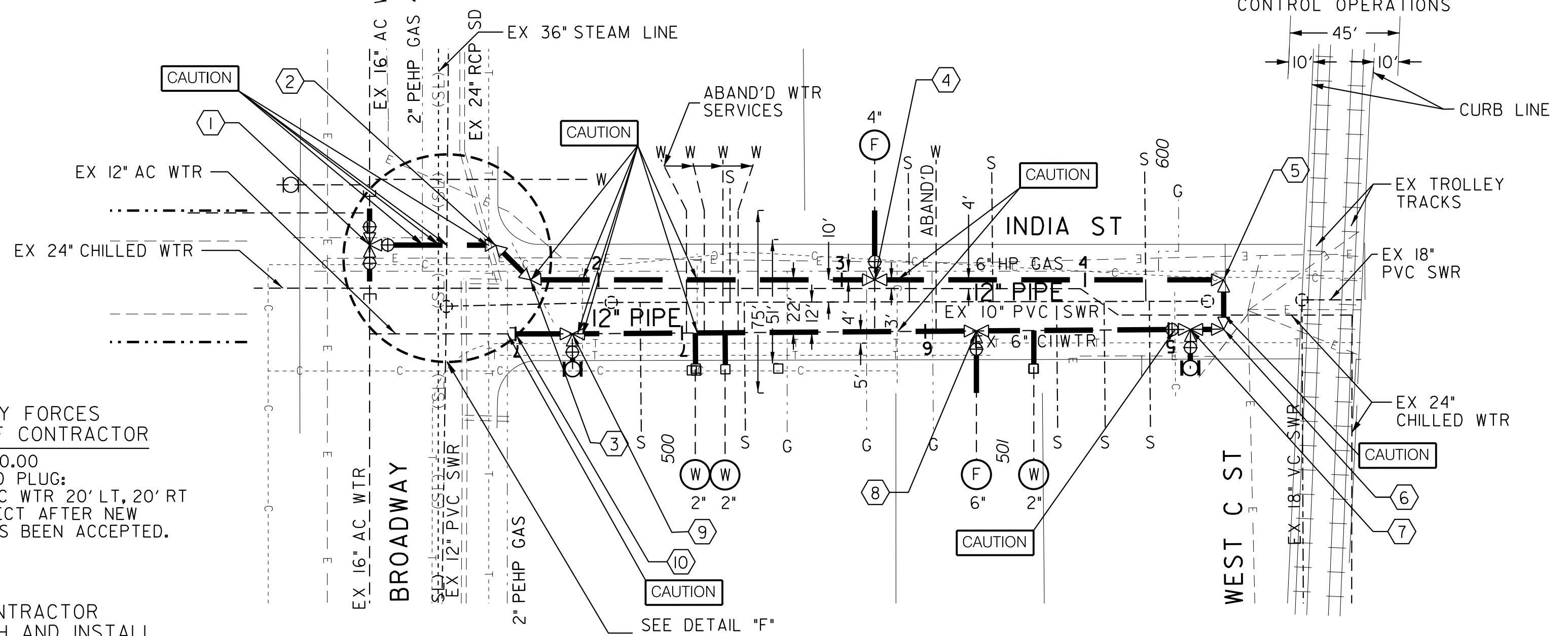
**RETIREMENTS:**  
6" - CI - 291' - 1987  
FH (3-PORT) - 2  
4" FS - UNK MATERIAL - 2 - 1987  
4" FS - PVC - 1 - 1987  
1" SERVICE - 5' - UNK MATERIAL - 1987  
2" SERVICE - 1 - PVC - 1987  
4" SERVICE - 1 - CI - 1987

**CONTRACTOR'S NOTE:**  
SEE 'DETAIL G' SHEET 25 FOR TYPICAL PROPOSED WATER SERVICE LOCATION WHEN EX SEWER LATERALS & WATER SERVICES ARE IN COMMON TRENCH OR CONFLICT.

**HIGHLINING NOTE:**  
CONTRACTOR TO HIGHLINE INDIA ST FROM STA. 3+13.51 TO STA. 7+68.42. CONTRACTOR TO FURNISH HIGHLINE MATERIALS AND TRANSFER SERVICES. (TO INCLUDE SERVICES ON BOTH SIDES OF INDIA STREET).

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

**MTS NOTE:**  
WARNING HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM (OCS) NOT SHOWN



① BY CITY FORCES AHD OF CONTRACTOR  
STA 1+00.00  
CUT AND PLUG;  
EX 16" AC WTR 20' LT, 20' RT RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.

② BY CONTRACTOR FURNISH AND INSTALL  
STA 1+00.00  
1- 16" X 12" TEE (F)  
2- 16" BV (F, MJ) LT, RT  
1- 12" GV (F, MJ) AHD  
1- 16" PIPE 10' MIN STUB OUT LT  
1- 16" PIPE 10' MIN STUB OUT RT

③ BY CONTRACTOR FURNISH AND INSTALL  
STA 1+51.90  
1- 12"-45' ELBOW

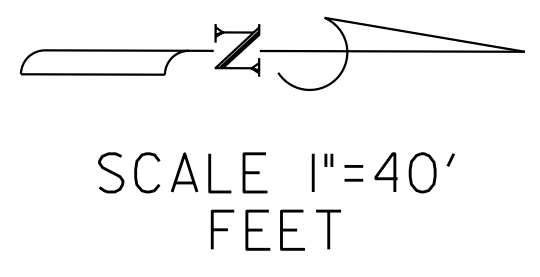
④ BY CONTRACTOR FURNISH AND INSTALL  
STA 1+72.00  
1- 12"-45' ELBOW

⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 3+13.51  
1- 12" X 4" TEE (MJ, MJ, F)  
1- 4" FS CONNECTION & ASSY

⑥ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+56.96  
1- 12"-90' ELBOW

⑦ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+77.33  
1- 12"-90' ELBOW

⑧ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+90.98  
1- 12" X 6" TEE (F, F, MJ)  
1- 6" FH ASSY AND MARKER  
1- 12" GV (F, MJ) AHD



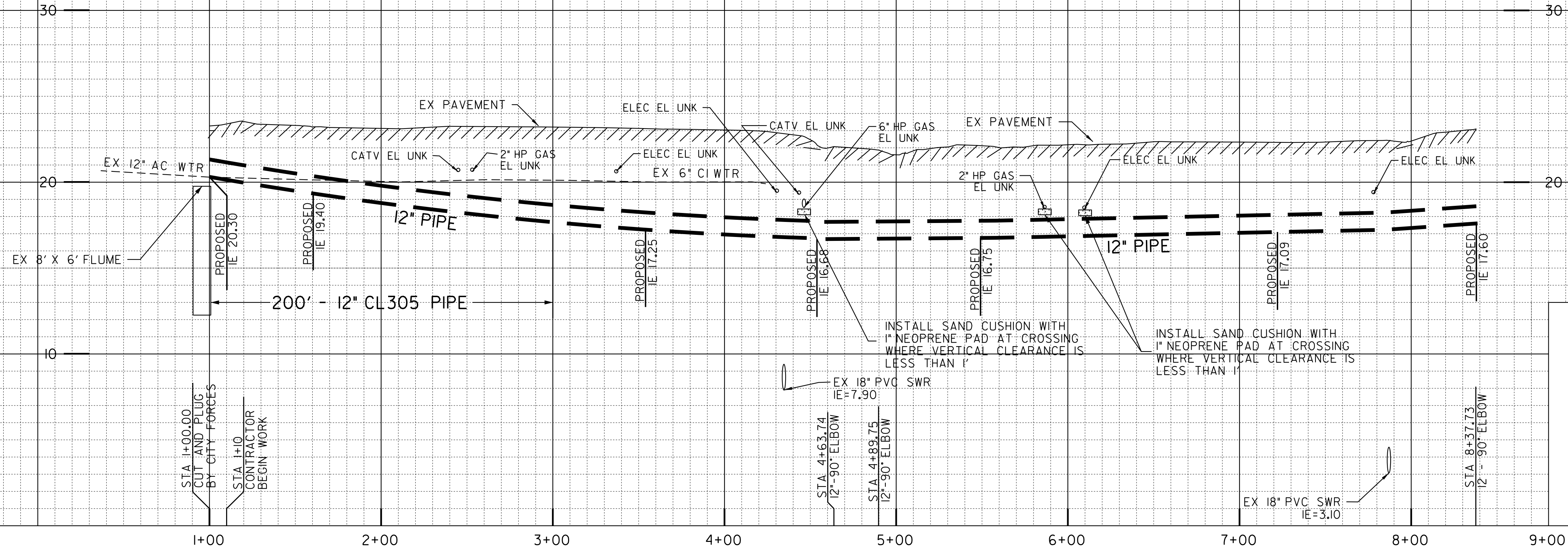
**C-5**

**SEWER AND WATER GROUP 957**  
INDIA STREET  
BROADWAY TO WEST C ST

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 6 OF 28 SHEETS		WATER WBS: BIII54 SEWER WBS: N/A
FOR CITY ENGINEER: <i>[Signature]</i>	DATE: 02-13-13	PROJECT MANAGER: JIM HAGGOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	APPROVED: ALI MOHAMMADIAN PROJECT ENGINEER
		198-1719 CCS27 COORDINATE
		6280407-1838444 CCS83 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____	36689-6-D
INSPECTOR: _____	DATE COMPLETED: _____	

INDIA STREET

INDIA STREET



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

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB	1+00.00	1842198.91	6279235.44	STRAIGHT	60.44	S 0°32'04.06" W
PI	1+60.44	1842138.46	6279234.88	STRAIGHT	193.56	S 0°32'29.89" W
PI	3+54.01	1841944.91	6279233.05	STRAIGHT	99.73	S 0°28'08.30" W
PI	4+53.74	1841845.18	6279232.23	STRAIGHT	10.00	S 0°13'12.23" W
PI	4+63.74	1841835.18	6279232.19	STRAIGHT	26.01	N 89°36'06.83" W
PI	4+89.75	1841835.36	6279206.19	STRAIGHT	59.37	N 0°28'22.18" E
PI	5+49.12	1841894.73	6279206.68	STRAIGHT	172.98	N 0°31'32.40" E
PI	7+22.10	1842067.71	6279208.26	STRAIGHT	115.63	N 0°31'32.40" E
POE	8+37.73	1842183.34	6279209.32			

**MTS NOTE:**  
WARNING HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM (OCS) NOT SHOWN

**NOTE:**  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

**REFERENCE:**

WATER:	25001-3-D, 22845-2-D, 24569-5-D
WATER CHILLED:	24035-7-D
SEWER:	25001-3-D
STORM DRAIN:	181-5-L, 30970-5-D
GAS:	1-265
ELECTRIC:	200-1716D
CABLE TV:	SDGCOI3PI22RI-39 (LEVEL 3)
TELEPHONE:	IMPROV
IMPROVEMENTS:	F225
100' SCALE/FIELD BOOK:	1288-J3
THOMAS BROS.:	231
HGL:	CCDC-SSM
SIDEWALK:	

**ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)**

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 4+22.99	STA. 8+37.73	414.74

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.

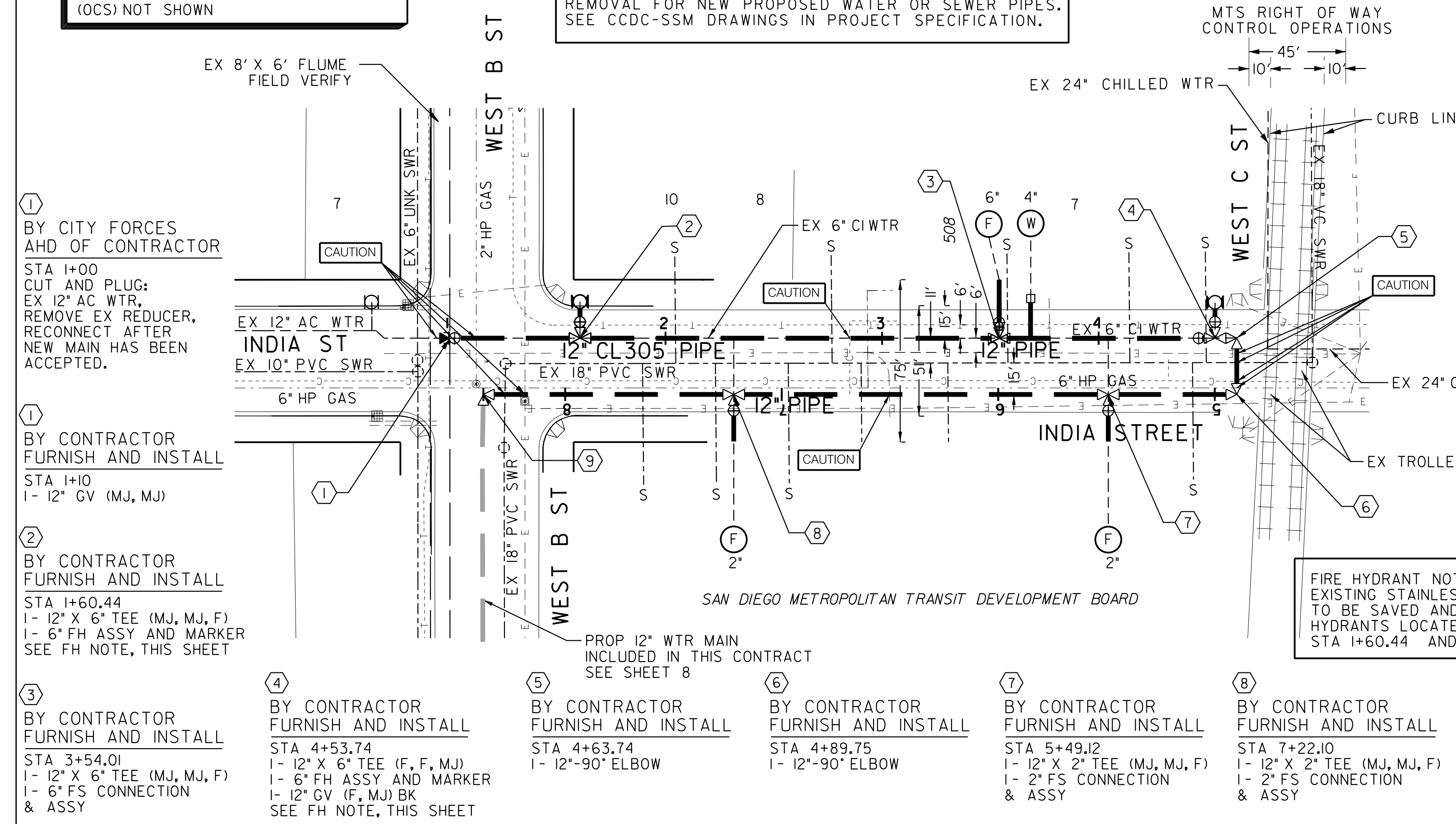
**CAUTION**  
6" HP GAS! CONTRACTOR TO VERIFY EXACT LOCATION AND MUST NOTIFY SDG&E THREE (3) WEEKS IN ADVANCE PRIOR TO EXCAVATION. SDG&E STANDBY REQUIRED.

**CONTRACTOR'S NOTE:**  
SEE "DETAIL G" SHEET 25 FOR TYPICAL PROPOSED WATER SERVICE LOCATION WHEN EX SEWER LATERALS & WATER SERVICES ARE IN COMMON TRENCH OR CONFLICT.

**HIGHLINE NOTE:**  
CONTRACTOR TO HIGHLINE INDIA ST FROM STA. 1+00 TO STA. 7+22.10. CONTRACTOR TO FURNISH HIGHLINE MATERIALS AND TRANSFER SERVICES. (TO INCLUDE SERVICES ON BOTH SIDES OF INDIA STREET).

**FIRE HYDRANT NOTE:**  
EXISTING STAINLESS STEEL FIRE HYDRANTS TO BE SAVED AND REUSED FOR THE FIRE HYDRANTS LOCATED AT STA 1+60.44 AND STA 4+53.74

**CONTRACTOR'S NOTE:**  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

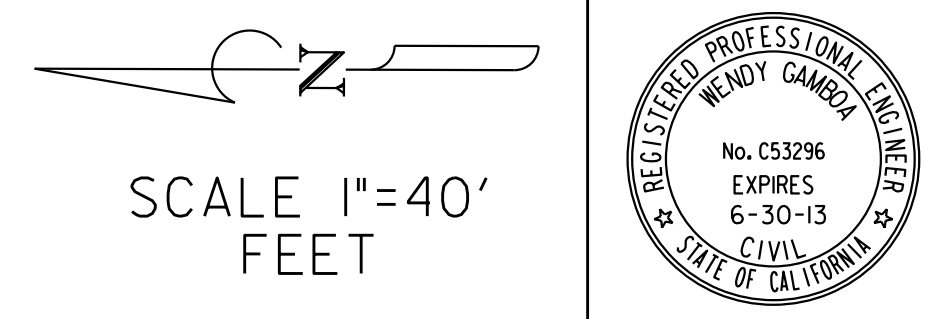


- ① BY CITY FORCES AND OF CONTRACTOR  
STA 1+00  
CUT AND PLUG:  
EX 12" AC WTR,  
REMOVE EX REDUCER,  
RECONNECT AFTER  
NEW MAIN HAS BEEN  
ACCEPTED.
- ② BY CONTRACTOR  
FURNISH AND INSTALL  
STA 1+10  
1- 12" GV (MJ, MJ)
- ③ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 3+54.01  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION  
& ASSY
- ④ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 4+53.74  
1- 12" X 6" TEE (F, F, MJ)  
1- 6" FH ASSY AND MARKER  
1- 12" GV (F, MJ) BK  
SEE FH NOTE, THIS SHEET
- ⑤ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 4+63.74  
1- 12"-90° ELBOW
- ⑥ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 4+89.75  
1- 12"-90° ELBOW
- ⑦ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 5+49.12  
1- 12" X 2" TEE (MJ, MJ, F)  
1- 2" FS CONNECTION  
& ASSY
- ⑧ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 7+22.10  
1- 12" X 2" TEE (MJ, MJ, F)  
1- 2" FS CONNECTION  
& ASSY
- ⑨ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 8+37.73  
1- 12"-90° ELBOW

**C-6**

**SEWER AND WATER GROUP 957  
INDIA STREET  
WEST B ST TO WEST C ST**

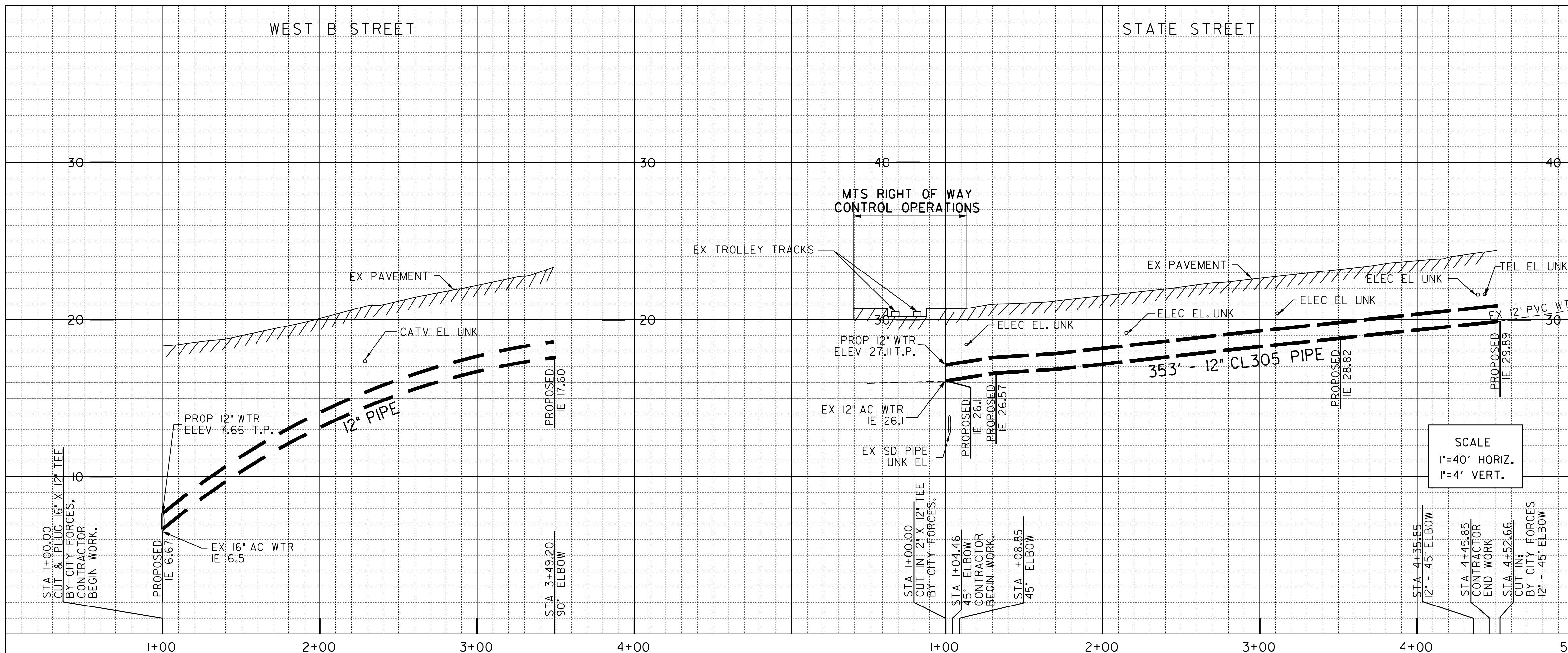
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 7 OF 28 SHEETS		WATER WBS: B1154 SEWER WBS: N/A
FOR CITY ENGINEER: <i>[Signature]</i>	DATE: 02-13-13	PROJECT MANAGER: JIM HAGHOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	DATE: [ ]
APPROVED: [ ]	DATE: [ ]	FILMED: [ ]
CHECKED BY: ALI MOHAMMADIAN PROJECT ENGINEER		198-1719 CCS27 COORDINATE
6280407-1838444 CCS83 COORDINATE		36689-7-D
CONTRACTOR: [ ]	DATE STARTED: [ ]	DATE COMPLETED: [ ]



SCALE 1"=40' FEET

INDIA STREET





PRINCIPLE SETTING OUT LINE FOR PLAN A

POINT CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB 1+00.00	1842185.04	6278960.13	STRAIGHT	249.20	S 89°36'33.39" E
POE 3+49.20	1842183.34	6279209.32			

PRINCIPLE SETTING OUT LINE FOR PLAN B

POINT CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB 1+00.00	1841818.82	6279782.00	STRAIGHT	7.50	S 89°29'03.21" E
PI 1+07.50	1841818.75	6279789.50	STRAIGHT	24.69	N 1°11'28.51" E
PI 1+32.19	1841843.44	6279790.01	STRAIGHT	219.09	N 0°26'37.51" E
PI 3+51.28	1842062.52	6279791.71	STRAIGHT	84.57	N 0°30'56.79" E
PI 4+35.85	1842147.09	6279792.47	STRAIGHT	16.80	N 44°36'24.44" W
POE 4+52.66	1842159.05	6279780.67			

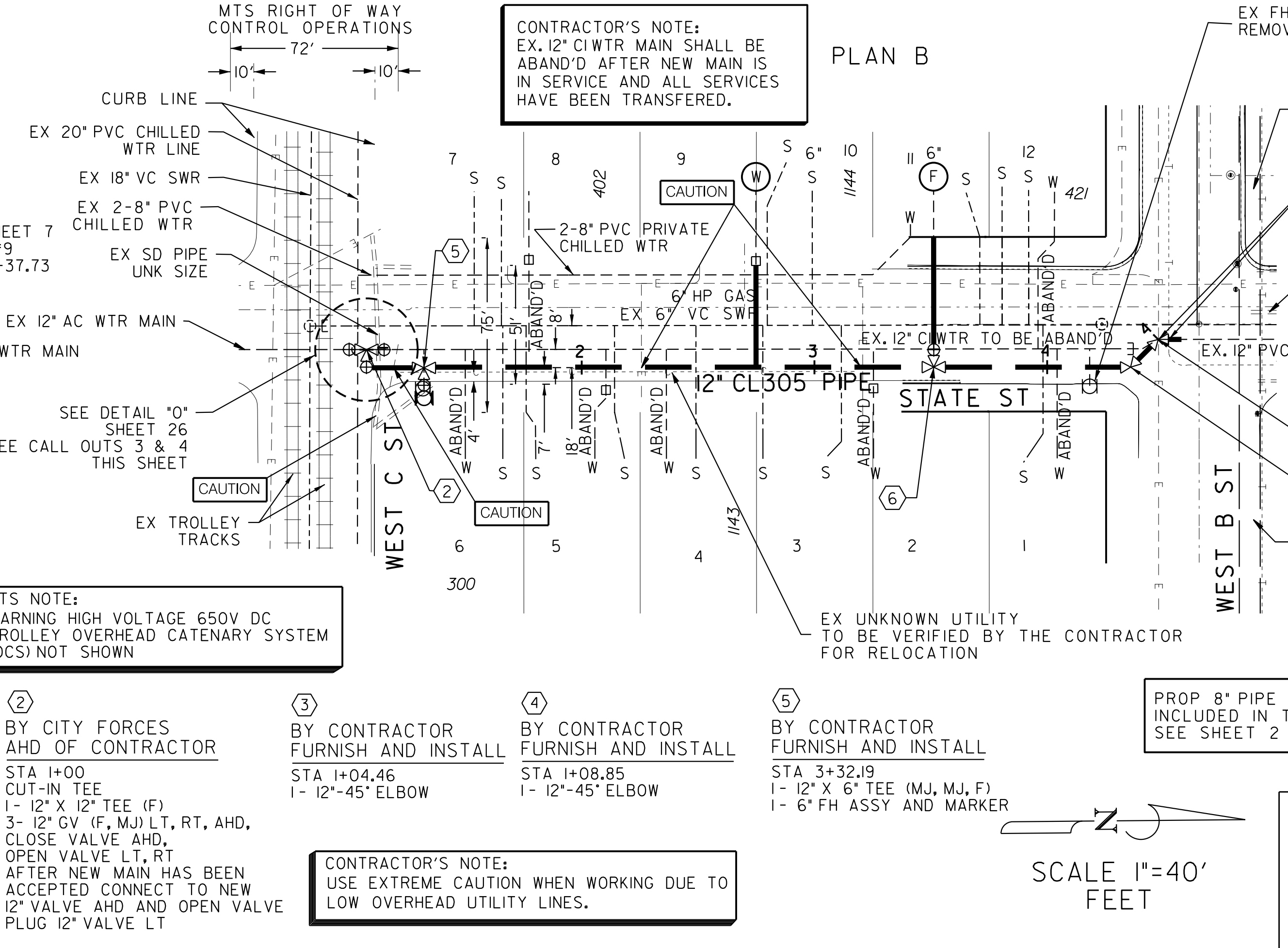
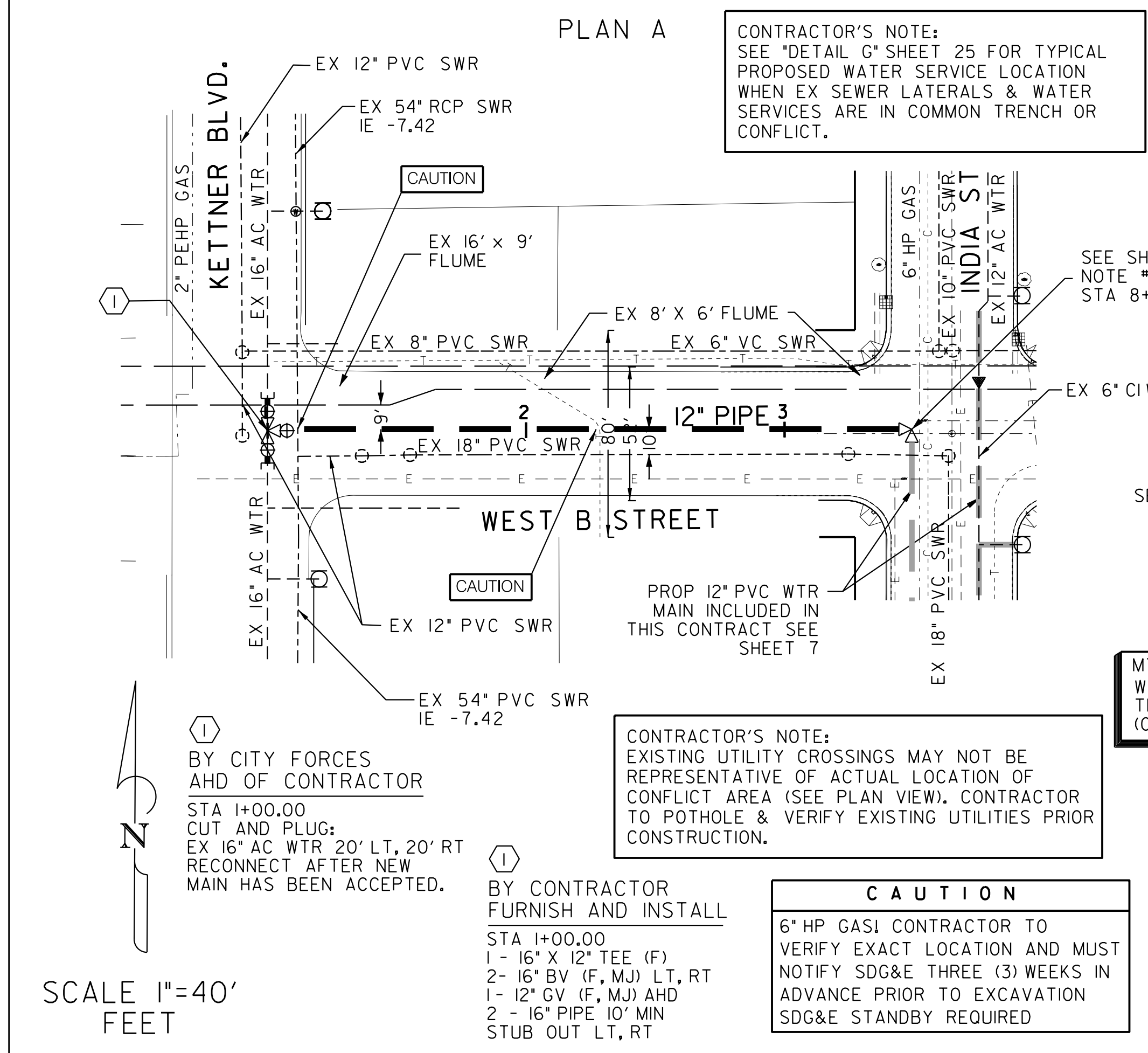
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00	STA. 3+49.20	249.20
STA. 1+00	STA. 4+45.85	345.85

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.

- ⑥ BY CONTRACTOR FURNISH AND INSTALL  
STA 3+51.28  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY
- ⑦ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+35.85  
1- 12"-45" ELBOW  
1- 12" PIPE 10' MIN STUB OUT.
- ⑧ BY CITY FORCES AFTER CONTRACTOR  
STA 4+52.66  
AFTER NEW MAIN HAS BEEN ACCEPTED  
CUT IN:  
1- 12" 45" ELBOW CONNECT TO 12" PIPE.

NOTE: CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.



REFERENCE:

WATER: 14835-3-D, 22845-2-D, 24902-9-D, 18576-65-D, 30004-19-D, 24 (50' SCALE), 24903-12-D, 31874-2-D, 14534-4-D, 25001-3-D, 24903-24-D, 14748-2-D

STORM DRAIN: 181-7-L, 19643-6-D

GAS: 1-265, 1-225A, 200-1716D

ELECTRIC: NONE

CABLE TV: SDGC013PI20RI-37(LLEVEL3), CS050ICB

TELEPHONE: NONE

IMPROVEMENTS: SDGC

100' SCALE/FIELD BOOK: F225

THOMAS BROS.: 1288-J3, 1289-A3

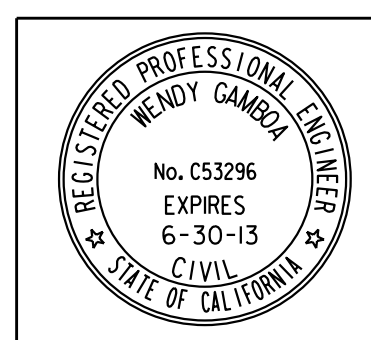
HGL: 231

SIDEWALK: CCDC-SSM

RETIREMENTS:  
12" - CI - 339.25' - 1911  
FH (3-PORT) - 2  
1" SERVICE - 4 - UNK MATERIAL - 1911  
1" SERVICE - 1 - PVC - 1911  
2" SERVICE - 3 - UNK MATERIAL - 1911  
12" SERVICE - 1 - CI - 1911

SCALE 1"=40' FEET

SCALE 1"=40' FEET



SEWER AND WATER GROUP 957  
WEST B STREET / STATE STREET

KETTNER BLVD TO INDIA ST/  
WEST C ST TO WEST B ST

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 8 OF 28 SHEETS	WATER WBS: B1154 SEWER WBS: N/A
DATE: 02-13-13	PROJECT MANAGER: JIM HAGHOUY
DESCRIPTION: ORIGINAL	PROJECT ENGINEER: ALI MOHAMMADIAN
BY: AM/SS	DATE: 198-1719
APPROVED: [Signature]	COORDINATOR: 6280407-1838444
INSPECTOR: [Signature]	DATE STARTED: 36689-8-1D
DATE COMPLETED:	

WEST B STREET / STATE STREET

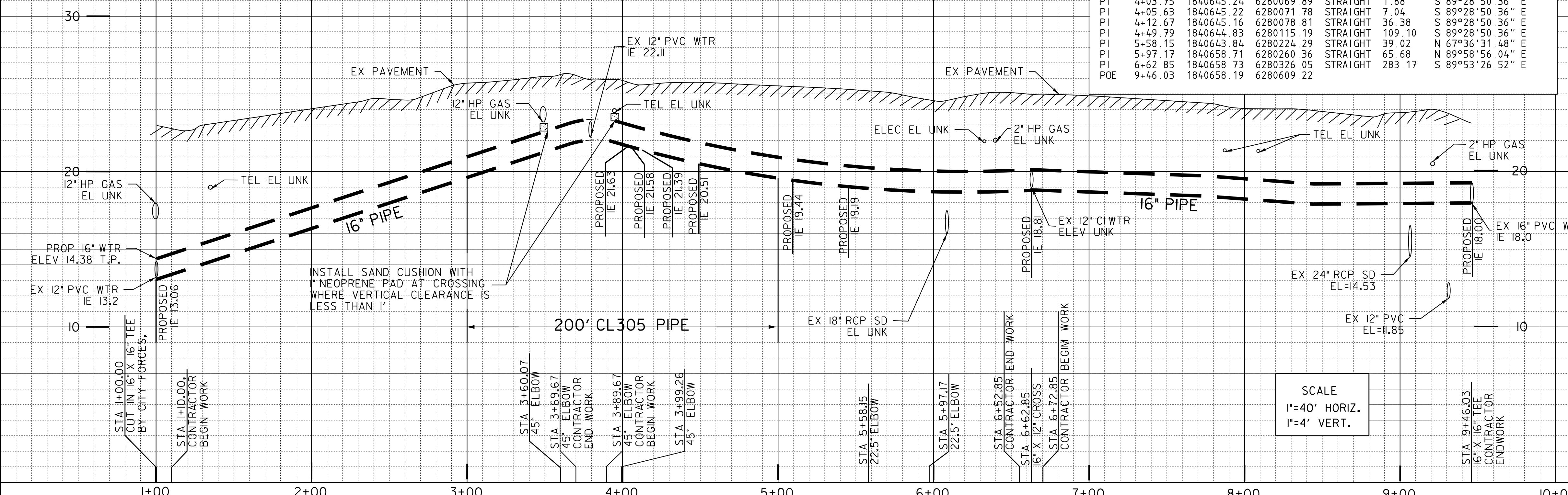
C-7

WEST F STREET

PRINCIPLE SETTING OUT LINE

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (ft)
POB	1+00.00	1840647.94	6279771.78	STRAIGHT	260.07	S 89°28'50.36" E
PI	3+60.07	1840645.59	6280031.84	STRAIGHT	9.60	S 44°28'50.36" E
PI	3+69.67	1840638.74	6280038.56	STRAIGHT	5.00	S 89°28'50.36" E
PI	3+74.67	1840638.70	6280043.56	STRAIGHT	10.00	S 89°28'50.36" E
PI	3+84.67	1840638.60	6280053.56	STRAIGHT	5.00	S 89°28'50.36" E
PI	3+89.67	1840638.56	6280058.56	STRAIGHT	9.60	N 45°31'09.64" E
PI	3+99.26	1840645.28	6280065.41	STRAIGHT	13.41	S 89°28'50.36" E
PI	4+03.75	1840645.24	6280069.89	STRAIGHT	1.88	S 89°28'50.36" E
PI	4+05.63	1840645.22	6280071.78	STRAIGHT	7.04	S 89°28'50.36" E
PI	4+12.67	1840645.16	6280078.81	STRAIGHT	36.38	S 89°28'50.36" E
PI	4+49.79	1840644.83	6280115.19	STRAIGHT	109.10	S 89°28'50.36" E
PI	5+58.15	1840643.84	6280224.29	STRAIGHT	39.02	N 67°36'31.48" E
PI	5+97.17	1840658.71	6280260.36	STRAIGHT	65.68	N 89°58'56.04" E
PI	6+62.85	1840658.73	6280326.05	STRAIGHT	283.17	S 89°53'26.52" E
POE	9+46.03	1840658.19	6280609.22			

- ⑧ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+49.79  
1- 16" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY
- ⑨ BY CONTRACTOR FURNISH AND INSTALL  
STA 5+58.15  
1- 16"-22.5" ELBOW
- ⑩ BY CONTRACTOR FURNISH AND INSTALL  
STA 5+97.17  
1- 16"-22.5" ELBOW
- ⑪ BY CITY FORCES AHD OF CONTRACTOR  
STA 6+62.85  
CUT IN:  
1- 16" X 12" CROSS (F) AND BYPASS  
2- 16" BV (F, MJ) AHD, BK  
2- 12" GV (F, MJ) LT, RT  
1- 12" PVC 20' MIN STUB OUT RT  
CONNECT TO EX 12" MAIN, CLOSE 16" BV AHD, BK AFTER NEW MAIN HAS BEEN ACCEPTED CONNECT TO NEW 16" BV BK, AHD AND OPEN VALVES
- ⑫ BY CITY FORCES AHD OF CONTRACTOR  
STA 9+46.03  
CUT AND PLUG:  
EX 16" AC WTR 10' LT, 20' RT  
CLOSE 16" BV BK  
AFTER NEW MAIN HAS BEEN ACCEPTED, CONNECT TO EX 16" VALVE BK AND OPEN
- ⑬ BY CITY FORCES AFTER CONTRACTOR  
STA 1+00.00 @ 10' RT  
CLOSE NEW 16" BV 10' LT  
CUT AND PLUG EX 12" PVC RT  
AND 16" CIWTR AHD.  
REMOVE EX TEE AND VALVES  
CONNECT TO 12" REDUCER LT  
COORDINATE WITH CONTRACTOR  
TO FILL AND ABANDON THE PIPE.  
PERMANENTLY PLUG EX 16" CI  
WTR AHD. OPEN NEW VALVE LT.
- ⑭ BY CITY FORCES AFTER CONTRACTOR  
STA 6+62.85 @ 10' RT  
CLOSE NEW 16" VALVE LT  
CUT AND PLUG EX 12" &  
16" CIWTR AHD, BK, RT  
REMOVE EX TEES AND VALVES  
CONNECT STUBOUT TO  
EX 12" WTR RT  
COORDINATE WITH CONTRACTOR  
TO FILL AND ABANDON THE PIPE.  
PERMANENTLY PLUG EX 16" CIWTR  
AHD OPEN VALVE LT.
- ⑮ BY CITY FORCES AFTER CONTRACTOR  
STA 9+46.03 @ 10' RT  
CLOSE 16" BV LT  
CUT AND PLUG EX 16" CIBK  
REMOVE EX TEES AND VALVES  
CONNECT STUBOUT TO  
EX 16" AC WTR RT  
OPEN 16" BV LT  
COORDINATE WITH CONTRACTOR  
TO FILL AND ABANDON  
EX 16" CIWTR BK  
PERMANENTLY PLUG  
EX 16" CIWTR BK



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

CONTRACTOR'S NOTE:  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

NOTE:  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

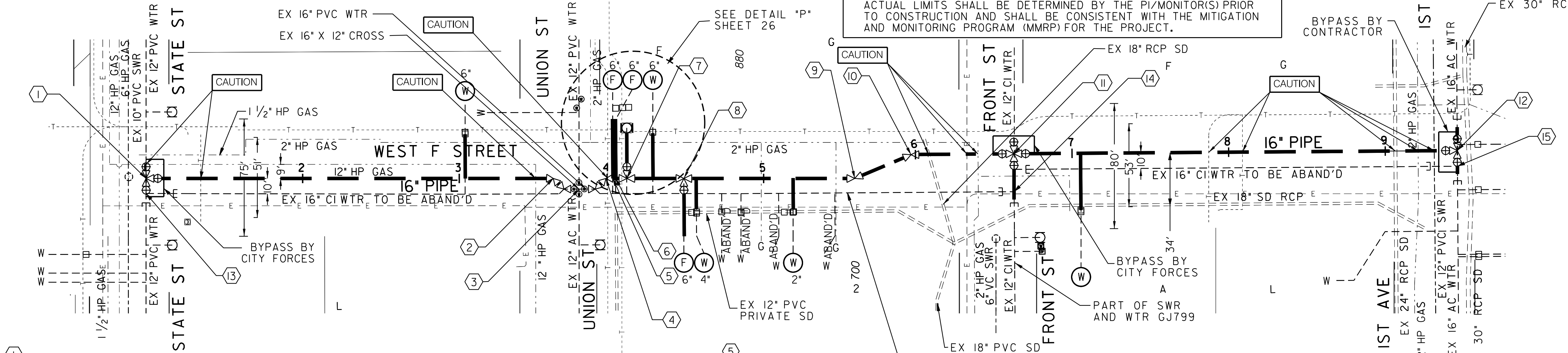
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00	STA. 3+69.67	269.67
STA. 3+89.67	STA. 9+46.03	556.36

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: 21623-3-D, 31303-13-D, 24903-II-D
  - SEWER: 20316-D, 24903-23-D
  - STORM DRAIN: 20689-5-D, 21623-3-D, 21493-2-D
  - GAS: 1-167, 1-165, 1-75, 1-119, 1-131
  - ELECTRIC: 200-1716B
  - CABLE TV: NONE
  - TELEPHONE: CS0503BC, CS0503BD, CS0303AC
  - IMPROVEMENTS: NONE
  - 100' SCALE/FIELD BOOK: F225
  - THOMAS BROS.: 1289-A3
  - HGL: 231
  - SIDEWALK: CCDC-SSM

- RETIREMENTS:
- 16" - CI - 819.73' - 1954
  - FH (3-PORT) - 1
  - 4" FS - CI - 1
  - 6" FS - AC - 2
  - 1" SERVICE - 2 - UNK MATERIAL - 1954
  - 2" SERVICE - 3 - UNK MATERIAL - 1954
  - 6" SERVICE - 3 - UNK MATERIAL - 1954

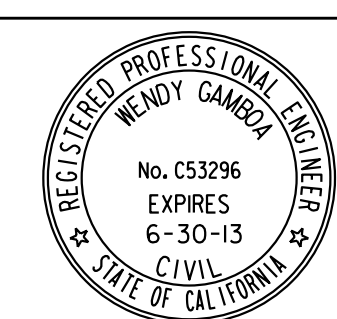


- ① BY CITY FORCES AHD OF CONTRACTOR  
STA 1+00.00  
CUT IN:  
1- 16" X 16" TEE (F) AND BYPASS  
3- 16" BV (F, MJ) RT, LT, AHD  
2- 16" X 12" REDUCER 3' LT, RT  
CLOSE NEW 16" BV AHD  
OPEN 16" BV LT, RT  
AFTER NEW MAIN HAS BEEN ACCEPTED CONNECT 16" PVC TO 16" BV AHD AND OPEN 16" BV AHD.
- ② BY CONTRACTOR FURNISH AND INSTALL  
STA 3+60.07  
1- 16"-45" ELBOW
- ③ BY CITY FORCES AFTER CONTRACTOR  
STA 3+79.30  
AFTER NEW MAIN HAS BEEN ACCEPTED  
CLOSE EX 16" BV BK, AHD  
CONNECT 2 - 3' 16" PVC TO EXISTING BV BK, AHD  
INSTALL 2 - 45" ELBOWS BK, AHD  
AND CONNECT TO THE 45" ELBOWS BK, AHD  
OPEN EX. 16" BV BK, AHD.
- ④ BY CONTRACTOR FURNISH AND INSTALL  
STA 3+89.67  
1- 16"-45" ELBOW
- ⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+03.75  
1- 16" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY
- ⑥ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+05.63  
1- 16" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY
- ⑦ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+12.67  
1- 16" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER

CONTRACTOR'S NOTE:  
EX. 16" CIWTR MAIN SHALL BE ABAND'D AFTER NEW MAIN IS IN SERVICE AND ALL SERVICES HAVE BEEN TRANSFERRED.

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

SCALE 1"=40' FEET



SEWER AND WATER GROUP 957  
WEST F STREET  
STATE ST TO 1ST AV

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 9 OF 28 SHEETS		WATER WBS: B1154 SEWER WBS: N/A
FOR CITY ENGINEER: <i>W. Saml</i>	DATE: 02-13-13	PROJECT MANAGER: JIM HAGHGOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	APPROVED: ALI MOHAMMADIAN
		PROJECT ENGINEER
		198-1719
		CCS27 COORDINATE
		6280407-1838444
		CCS83 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____	36689-9-1D
INSPECTOR: _____	DATE COMPLETED: _____	

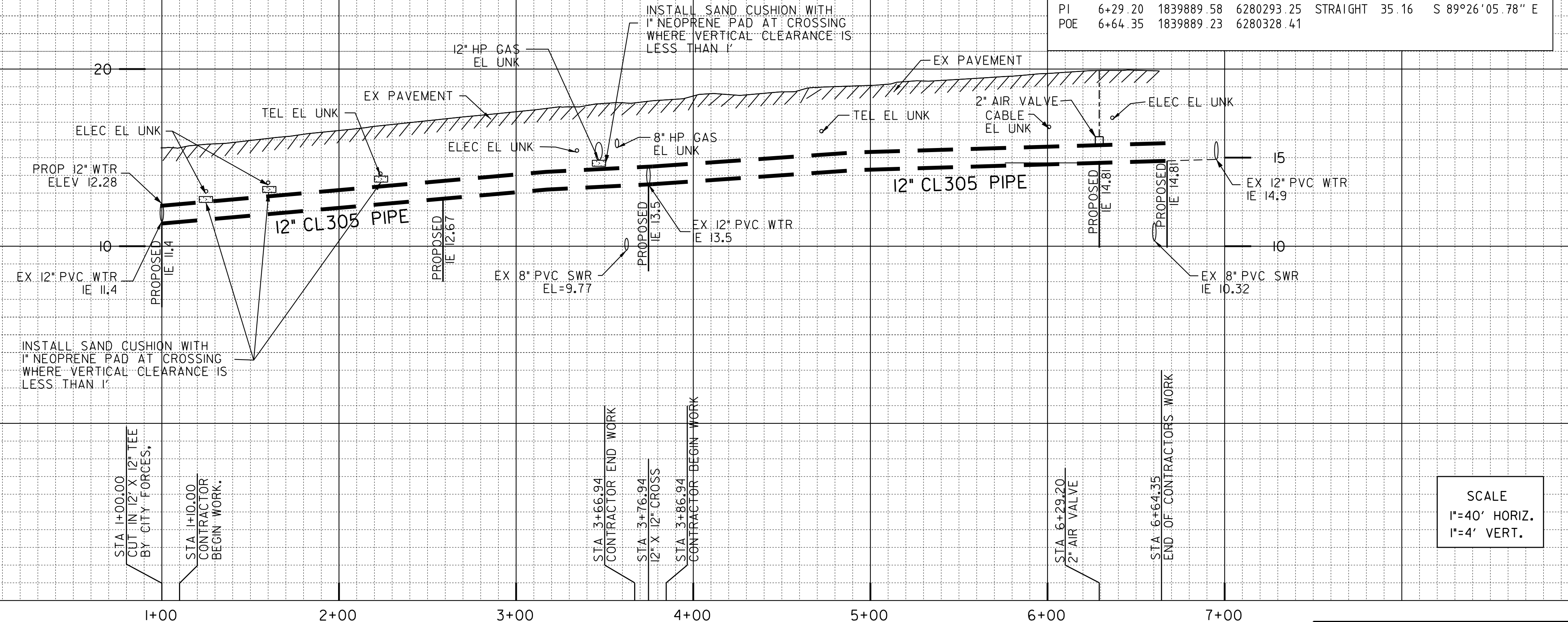
WEST F STREET

C-8



W MARKET STREET

POINT CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB 1+00.00	1839894.80	6279764.08	STRAIGHT	158.71	S 89°26'05.78" E
PI 2+58.71	1839893.23	6279922.78	STRAIGHT	118.23	S 89°26'05.78" E
PI 3+76.94	1839892.07	6280041.01	STRAIGHT	252.26	S 89°26'05.78" E
PI 6+29.20	1839889.58	6280293.25	STRAIGHT	35.16	S 89°26'05.78" E
POE 6+64.35	1839889.23	6280328.41			



- ③ BY CITY FORCES  
AHD OF CONTRACTOR  
STA 3+76.94  
CUT IN  
1- 12" X 12" CROSS (F)  
4 - 12" GV (F, MJ) BK, AHD, LT, RT  
1- 12" X 10" REDUCER 3' RT  
1- 10" PIPE 20' MIN STUBOUT RT  
CLOSE NEW 12" VALVE BK, AHD  
OPEN NEW VALVE LT, RT  
AFTER NEW MAIN HAS BEEN ACCEPTED  
CONNECT TO NEW 12" PIPE BK, AHD  
OPEN VALVES BK, AHD
- ④ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 6+29.20  
1- 2" AIR VALVE
- ⑤ BY CITY FORCES  
AHD OF CONTRACTOR  
STA 6+64.35  
CUT IN  
1- 12" X 12" TEE (F, F, MJ)  
3 - 12" GV (F, MJ) BK, LT, RT  
CLOSE NEW 12" VALVES BK  
AFTER NEW MAIN HAS BEEN ACCEPTED  
CONNECT TO NEW 12" PIPE BK  
OPEN VALVES BK
- ⑥ BY CITY FORCES  
AFTER CONTRACTOR  
STA 1+00 @ 13' RT  
CUT IN NEW 12" ELBOW  
PERMANENTLY, PLUG EX 10" CI  
WTR AHD.
- ⑦ BY CITY FORCES  
AFTER CONTRACTOR  
STA 3+76.94 @ 20' RT  
CLOSE NEW VALVE LT  
CUT AND PLUG  
EX 10" PVC 10" RT, AHD, BK  
REMOVE EX CROSS AND VALVES  
CONNECT STUB OUT TO  
EX 10" PVC WTR RT  
OPEN NEW 12" VALVE LT  
PERMANENTLY PLUG EX 10" CI  
WTR BK, AHD.

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

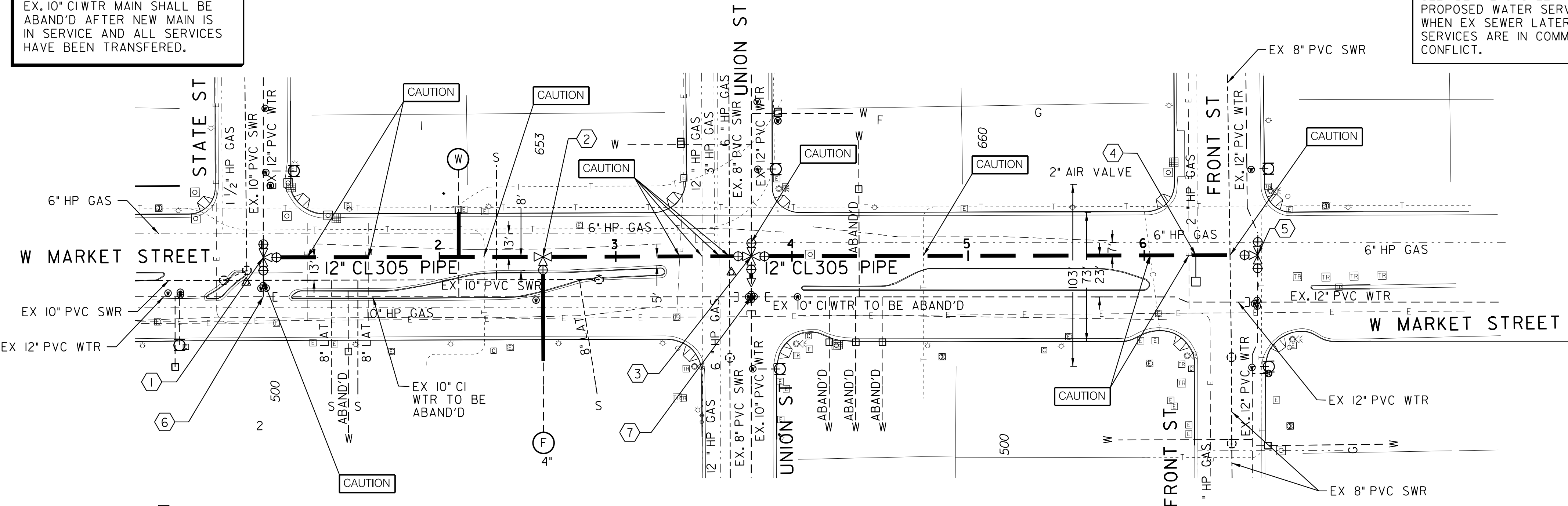
CONTRACTOR'S NOTE:  
EX. 10" CI WTR MAIN SHALL BE  
ABAND'D AFTER NEW MAIN IS  
IN SERVICE AND ALL SERVICES  
HAVE BEEN TRANSFERRED.

CONTRACTOR'S NOTE:  
SEE \*DETAIL G\* SHEET 25 FOR TYPICAL  
PROPOSED WATER SERVICE LOCATION  
WHEN EX SEWER LATERALS & WATER  
SERVICES ARE IN COMMON TRENCH OR  
CONFLICT.

NOTE:  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK  
REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES.  
SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

- REFERENCE:
- WATER: 24206-8-D, 24206-10-D, 26346-4-D, 26942-3-D
  - SEWER: 26942-3-D, 26346-3-D, 26346-2-D
  - STORM DRAIN: NONE
  - GAS: 1-83, 1-84, 1-117
  - ELECTRIC: 198-1716D
  - CABLE TV: NONE
  - TELEPHONE: CS0503DC, CS0503DD
  - IMPROVEMENTS: NONE
  - 100' SCALE/FIELD BOOK: F22S
  - THOMAS BROS.: 1289-A3
  - HGL: 231
  - SIDEWALK: CCDC-SSM

- RETIREMENTS:
- 10" - CI - 25.40' - 1990
  - 8" FS - PVC - 1
  - 1" SERVICE - 6 - UNK MATERIAL - 1990



- ① BY CITY FORCES  
AHD OF CONTRACTOR  
STA 1+00  
CUT IN:  
1- 12" X 12" TEE (F)  
3- 12" GV (F, MJ) AHD, LT, RT  
CLOSE NEW 12" VALVE AHD  
OPEN 12" VALVE LT, RT  
AFTER NEW MAIN HAS BEEN  
ACCEPTED CONNECT TO  
NEW 12" VALVE AHD AND OPEN.
- ② BY CONTRACTOR  
FURNISH AND INSTALL  
STA 2+58.71  
1- 12" X 4" TEE (MJ, MJ, F)  
1- 4" FS CONNECTION  
& ASSY

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

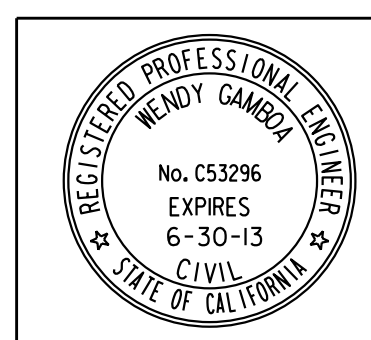
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS  
(INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+25.19	STA. 6+64.35	539.16

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.

CONTRACTOR'S NOTE:  
EXISTING UTILITY CROSSINGS MAY NOT BE  
REPRESENTATIVE OF ACTUAL LOCATION OF  
CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR  
TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR  
CONSTRUCTION.

SCALE 1"=40'  
FEET



C-9

**SEWER AND WATER GROUP 957**  
W MARKET STREET  
STATE ST. TO FRONT ST.

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 10 OF 28 SHEETS		WATER WBS: BIII54 SEWER WBS: N/A
FOR CITY ENGINEER: <i>W. Sam</i>	DATE: 02-13-13	PROJECT MANAGER: JIM HAGHGOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	PROJECT ENGINEER: ALI MOHAMMADIAN
APPROVED: _____	DATE: _____	198-1719
FILMED: _____		CCS27 COORDINATE
		6280407-1838444
		CCS83 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____	36689-10-D
INSPECTOR: _____	DATE COMPLETED: _____	

3RD AVE

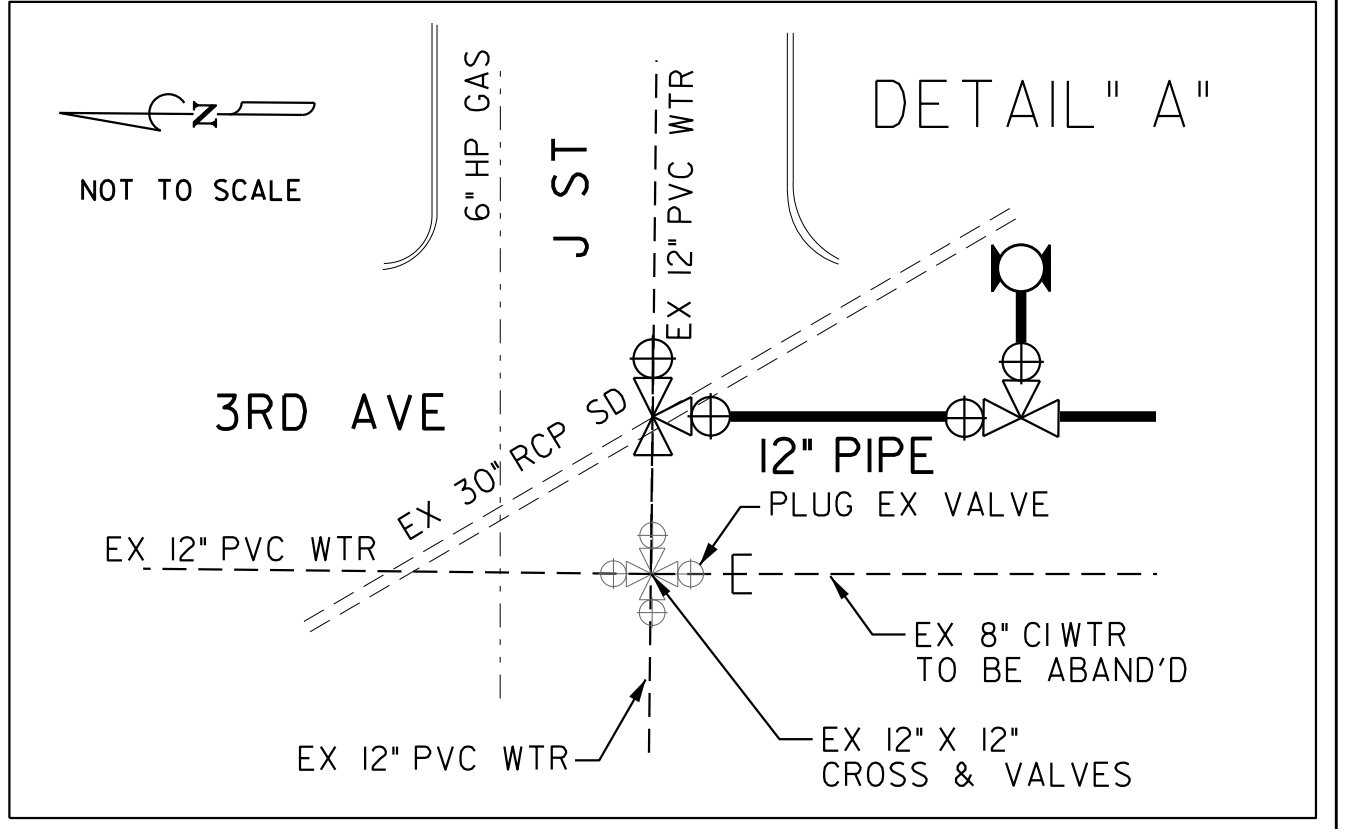
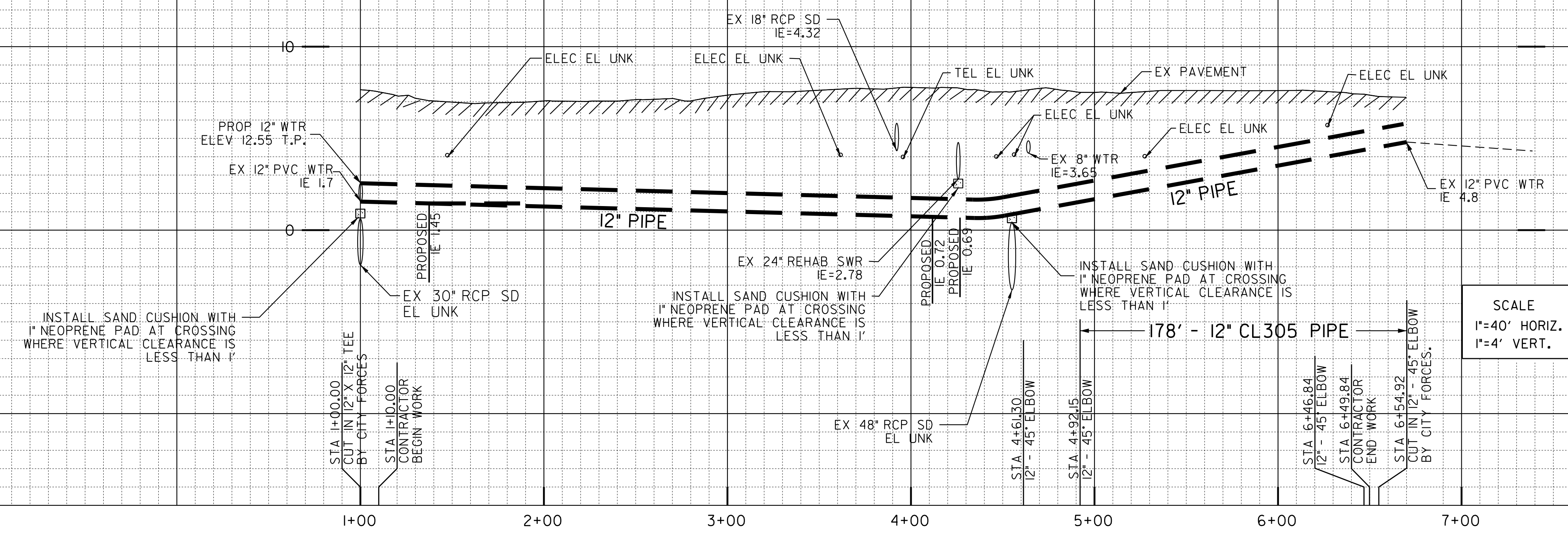
K ST

POINT CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB 1+00.00	1839097.03	6281161.52	STRAIGHT	17.97	S 0°06'34.41" W
PI 1+17.97	1839079.06	6281161.48	STRAIGHT	11.94	S 41°54'41.08" E
PI 1+29.91	1839070.17	6281169.46	STRAIGHT	7.55	S 0°02'44.75" W
PI 1+37.46	1839062.63	6281169.45	STRAIGHT	274.28	S 0°06'34.41" W
PI 4+11.73	1838788.35	6281168.93	STRAIGHT	13.38	S 0°06'34.41" W
PI 4+26.72	1838774.97	6281168.90	STRAIGHT	36.18	S 0°06'34.41" W
PI 4+61.30	1838738.79	6281168.83	STRAIGHT	30.86	S 44°53'25.59" E
PI 4+92.15	1838716.93	6281190.61	STRAIGHT	154.69	N 89°49'15.67" E
PI 6+46.84	1838717.41	6281345.29	STRAIGHT	8.08	S 45°00'00.00" E
PI 6+54.92	1838711.70	6281351.01	STRAIGHT	7.50	S 89°26'55.52" E
POE 6+62.42	1838711.62	6281358.51			

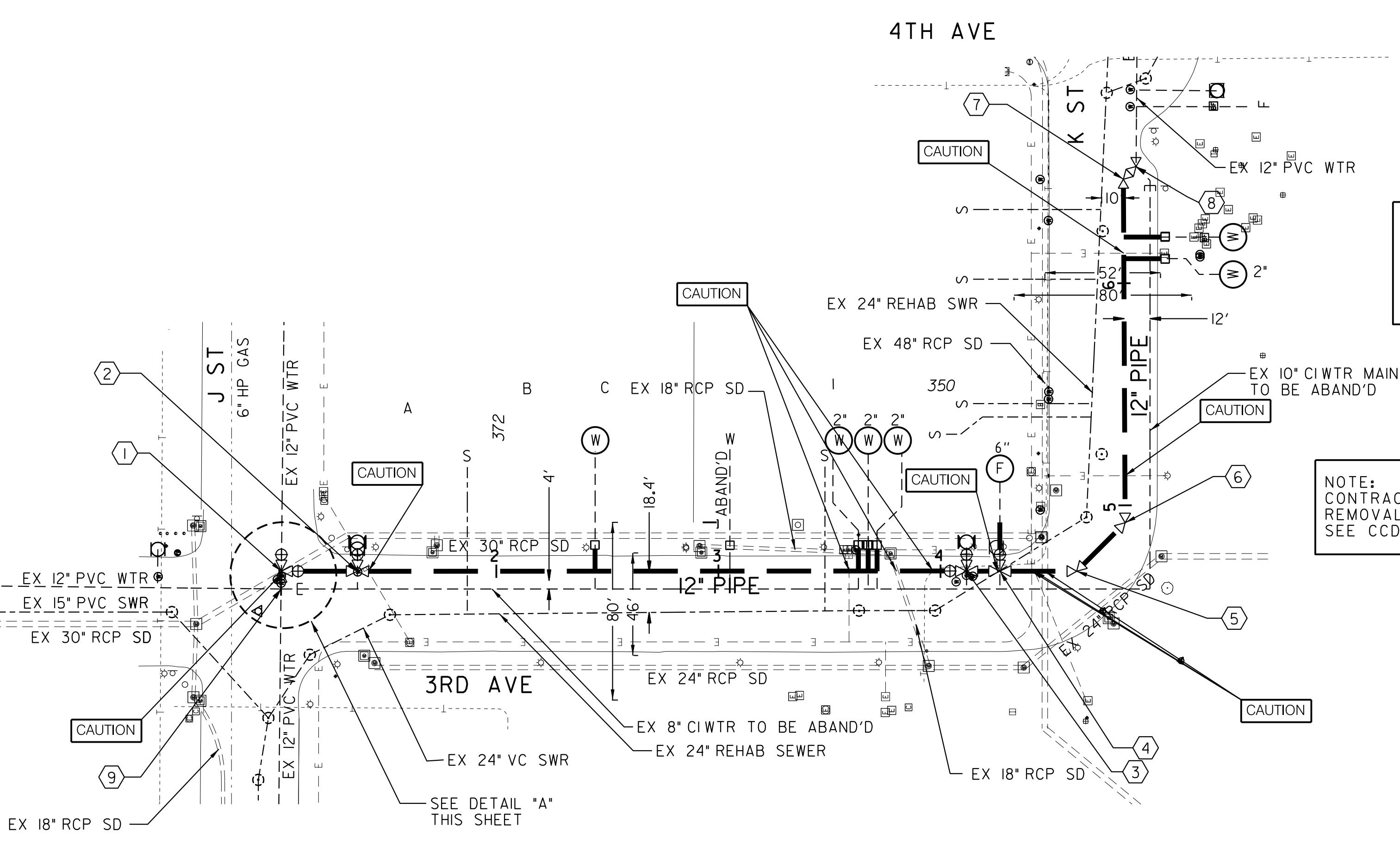
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00	STA. 6+54.92	554.92

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.



- ① BY CITY FORCES AHD OF CONTRACTOR  
STA 1+00.00  
CUT IN:  
1- 12" X 12" TEE (F, F, MJ)  
2- 12" GV (F, MJ) AHD, LT  
CLOSE NEW 12" GV AHD  
OPEN 12" GV LT, AFTER  
NEW MAIN HAS BEEN  
ACCEPTED CONNECT TO  
NEW 12" GV AHD, OPEN  
12" GV AHD.
- ② BY CONTRACTOR FURNISH AND INSTALL  
STA 4+61.30  
1- 12"-45" ELBOW
- ③ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+92.15  
1- 12"-45" ELBOW
- ④ BY CONTRACTOR FURNISH AND INSTALL  
STA 1+37.46  
1- 12" X 6" TEE (F, F, MJ)  
1- 6" FH ASSY AND MARKER
- ⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+11.73  
1- 12" X 6" TEE (F, F, MJ)  
1- 6" FH ASSY AND MARKER  
1- 12" GV (F, MJ) BK
- ⑥ BY CONTRACTOR FURNISH AND INSTALL & ASSY  
STA 4+26.72  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION
- ⑦ BY CONTRACTOR FURNISH AND INSTALL  
STA 6+46.84  
1- 12"-45" ELBOW  
1- 12" PIPE 3' MIN  
STUB OUT AHD
- ⑧ BY CITY FORCES AFTER CONTRACTOR  
STA 6+54.92  
CUT IN:  
1- 12"-45" ELBOW,  
AFTER NEW MAIN HAS  
BEEN ACCEPTED CONNECT  
TO EX 12" PVC PIPE BK
- ⑨ BY CITY FORCES AFTER CONTRACTOR  
STA 1+00 @ 4' RT  
CLOSE EX 12" GV AHD  
PERMANENTLY PLUG  
EX 8" CIWTR AHD



CONTRACTOR'S NOTE:  
EX. 8" CIWTR MAIN AND 10" CIWTR  
MAIN SHALL BE ABAND'D AFTER NEW  
MAIN IS IN SERVICE AND ALL SERVICES  
HAVE BEEN TRANSFERRED.

CONTRACTOR'S NOTE:  
EXISTING UTILITY CROSSINGS MAY NOT BE  
REPRESENTATIVE OF ACTUAL LOCATION OF  
CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR  
TO POT HOLE & VERIFY EXISTING UTILITIES PRIOR  
CONSTRUCTION.

NOTE:  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK  
REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES.  
SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

REFERENCE:

WATER:	24206-3-D, 29323-2-D, 44 (50' SCALE)
SEWER:	29839-32/33-D, 29323-2-D
STORM DRAIN:	11242-4-D, 24384-4-D, 2343-D
GAS:	1-88, 1-90, 198-1719A
ELECTRIC:	NONE
CABLE TV:	NONE
TELEPHONE:	NONE
IMPROVEMENTS:	NONE
100' SCALE/FIELD BOOK:	G225-D
THOMAS BROS.:	1289A4
HGL:	231
SIDEWALK:	CCDC-SSM

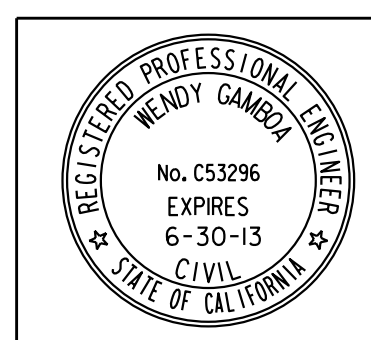
RETIREMENTS:

8" - CI - 391' - 1912
10" - CI - 192' - 1910
6" FS - 1 - PVC - 2002
FH (3-PORT) - 2
1" SERVICE - 1 - COPPER - 2000
2" SERVICE - 1 - COPPER - 2000
2" SERVICE - 4 - PVC - 2002
4" SERVICE - 1 - PVC - 2002

C-10

SEWER AND WATER GROUP 957  
3RD AVE AND K ST  
J ST TO 4TH AVE

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET II OF 28 SHEETS		WATER WBS: B1154	SEWER WBS: N/A
FOR CITY ENGINEER: <i>W. Sam</i>	DATE: 02-13-13	PROJECT MANAGER: JIM HAGHGOUY	
DESCRIPTION: ORIGINAL	BY: AM/SS	APPROVED: ALI MOHAMMADIAN	DATE FILMED: PROJECT ENGINEER
CONTRACTOR: _____		DATE STARTED: _____	DATE COMPLETED: _____
INSPECTOR: _____		36689-11-D	



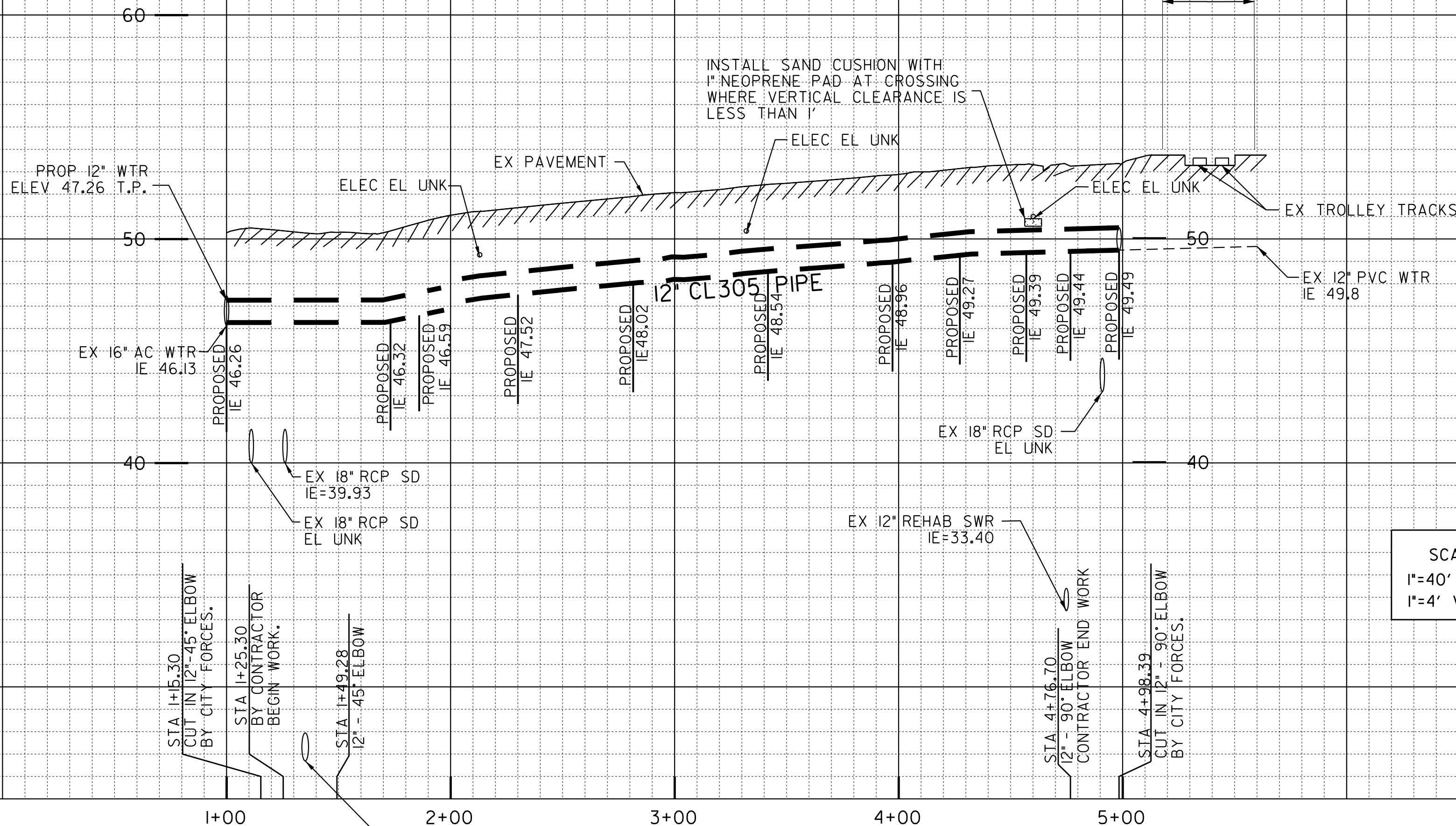
SCALE 1"=40' FEET

3RD AVE AND K ST



4TH AVE

MTS RIGHT OF WAY CONTROL OPERATIONS



PRINCIPLE SETTING OUT LINE

POINT	CHAINAGE	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB	1+00.00	1841394.46	6281450.01	STRAIGHT	15.30	N 0°04'24.74" E
PI	1+15.30	1841409.76	6281450.03	STRAIGHT	33.98	N 44°51'00.10" W
PI	1+49.28	1841433.85	6281426.06	STRAIGHT	23.89	N 0°03'41.32" E
PI	1+73.18	1841457.75	6281426.09	STRAIGHT	56.89	N 0°03'41.32" E
PI	2+30.07	1841514.64	6281426.15	STRAIGHT	51.39	N 0°03'41.32" E
PI	2+81.46	1841566.03	6281426.21	STRAIGHT	60.08	N 0°40'14.63" E
PI	3+41.55	1841626.11	6281426.91	STRAIGHT	55.72	N 0°46'49.65" E
PI	3+97.27	1841681.83	6281427.67	STRAIGHT	30.07	N 0°46'49.65" E
PI	4+27.34	1841711.90	6281428.08	STRAIGHT	29.66	N 0°46'49.65" E
PI	4+57.00	1841741.55	6281428.48	STRAIGHT	19.71	N 0°46'49.65" E
PI	4+76.70	1841761.26	6281428.75	STRAIGHT	21.69	S 89°54'52.71" E
POE	4+98.39	1841761.22	6281450.44			

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

NOTE:  
\*SIDEWALK CONSTRUCTION ON U.S. GRANT HOTEL SHALL MATCH THE U.S. GRANT HOTEL IN KIND, STYLE AND IN COLOR.  
\*SIDEWALK CONSTRUCTION ON EAST OF 4TH AVE SHALL BE PER CCDC-SSM "BROADWAY PAVING".  
\*DETAILS INCLUDED IN SPECIFICATIONS.

CONTRACTOR'S NOTE:  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW), CONTRACTOR TO POT HOLE & VERIFY EXISTING UTILITIES PRIOR CONSTRUCTION.

MTS NOTE:  
WARNING HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM (OCS) NOT SHOWN

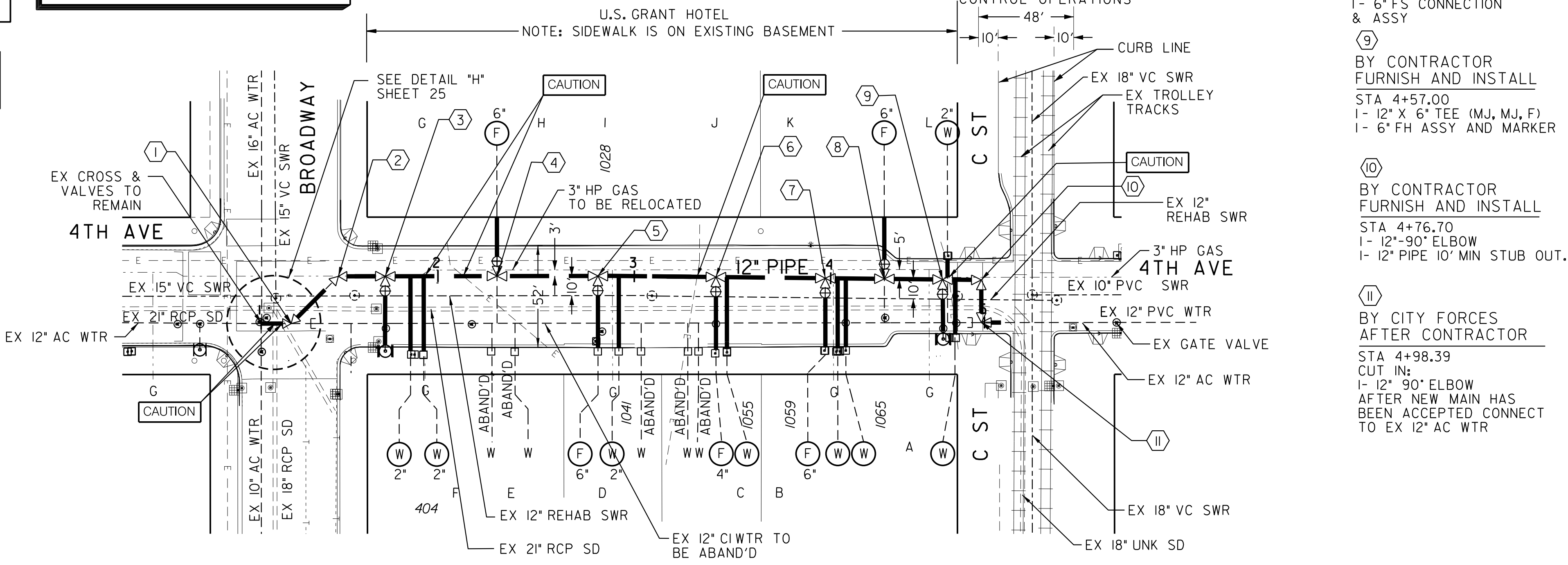
CONTRACTOR'S NOTE:  
USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

① BY CITY FORCES AFTER CONTRACTOR  
STA 1+15.30  
CUT IN:  
1- 12" 45° ELBOW  
AFTER NEW MAIN HAS BEEN ACCEPTED CONNECT TO EXISTING 12" VALVE BK.

② BY CONTRACTOR FURNISH AND INSTALL  
STA 1+49.28  
1- 12" 45° ELBOW  
1- 12" PIPE 20' MIN STUB OUT BK.

③ BY CONTRACTOR FURNISH AND INSTALL  
STA 1+73.18  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER

CONTRACTOR'S NOTE:  
EX. EX 12" CIWTR MAIN SHALL BE ABAND'D AFTER NEW MAIN IS IN SERVICE AND ALL SERVICES HAVE BEEN TRANSFERRED



④ BY CONTRACTOR FURNISH AND INSTALL  
STA 2+30.07  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY

⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 2+81.46  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY

⑥ BY CONTRACTOR FURNISH AND INSTALL  
STA 3+41.55  
1- 12" X 4" TEE (MJ, MJ, F)  
1- 4" FS CONNECTION & ASSY

⑦ BY CONTRACTOR FURNISH AND INSTALL  
STA 3+97.27  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY

⑧ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+27.34  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY

⑨ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+57.00  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY AND MARKER

⑩ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+76.70  
1- 12" 90° ELBOW  
1- 12" PIPE 10' MIN STUB OUT.

⑪ BY CITY FORCES AFTER CONTRACTOR  
STA 4+98.39  
CUT IN:  
1- 12" 90° ELBOW  
AFTER NEW MAIN HAS BEEN ACCEPTED CONNECT TO EX 12" AC WTR

REFERENCE:

WATER	31303-2-D, 31303-8-D, 18217-9-D, 18576-67-D, 58 (50' SCALE)
SEWER:	32291-2-D, 20540-2-D, 13929-3-D
STORM DRAIN:	3133-D
GAS:	1-208
ELECTRIC:	200-1719C
CABLE TV:	NONE
TELEPHONE:	NONE
IMPROVEMENTS:	INONE
100' SCALE/FIELD BOOK:	G225-A
THOMAS BROS.:	I289-A3
HGL:	231
SIDEWALK:	CCDC-SSM

RETIREMENTS:

12" - CI - 376,38' - 1910
FH (3-PORT) - 2
4" FS - CI - 1
6" FS - CI - 5
1" SERVICE - 10 - UNK MATERIAL - 1910
2" SERVICE - 2 - UNK MATERIAL - 1910

C-11

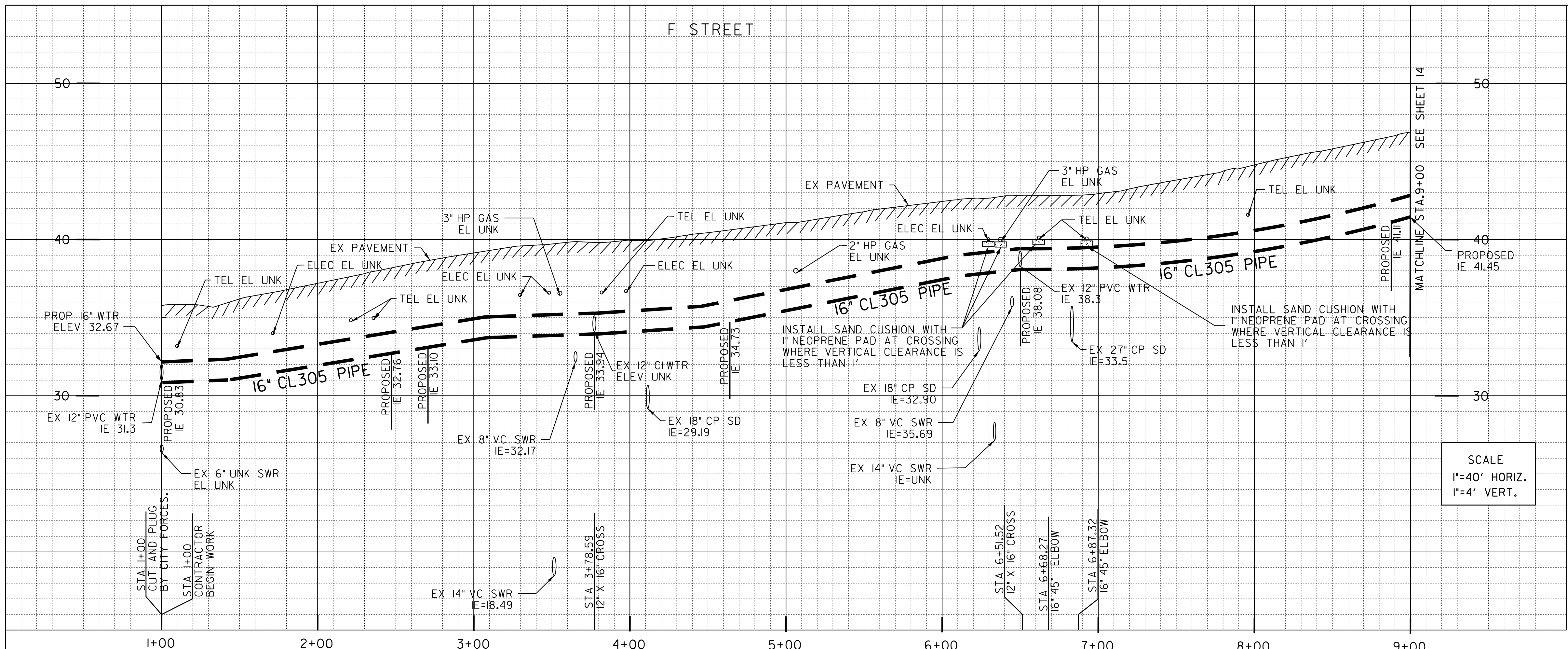
SEWER AND WATER GROUP 957		WATER WBS	B1154
4TH AVE		SEWER WBS	N/A
BROADWAY TO C ST		PROJECT MANAGER	JIM HAGGOUY
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 12 OF 28 SHEETS		DATE	02-13-13
FOR CITY ENGINEER	DATE	DATE	DATE
DESCRIPTION	BY	APPROVED	FILMED
ORIGINAL	AM/SS		
CHECKED BY: ALI MOHAMMADIAN PROJECT ENGINEER		198-1719	
6280407-1838444		CCS87 COORDINATE	
CONTRACTOR		DATE STARTED	36689-12-D
INSPECTOR		DATE COMPLETED	

SCALE 1"=40' FEET



4TH AVE





- ⑧ BY CONTRACTOR FURNISH AND INSTALL  
STA 6+87.32  
1- 16"-45" ELBOW
- ⑨ BY CONTRACTOR FURNISH AND INSTALL  
STA 8+87.72  
1- 16" X 6" TEE (MJ, MJ, F)  
1- 6" FH ASSY 3 PORT
- ⑩ BY CITY FORCES AFTER CONTRACTOR  
STA 1+00 @ 30' RT  
CLOSE NEW 16" BV LT  
CUT AND PLUG 16" AC WTR RT  
REMOVE EX CROSS AND VALVES  
CONNECT STUBOUT TO EX 16" AC WTR RT  
OPEN NEW 16" BV LT  
COORDINATE WITH CONTRACTOR TO FILL AND ABANDON 16" CIWTR PERMANENTLY, PLUG EX 16" CIWTR BK, AHD
- ⑪ BY CITY FORCES AFTER CONTRACTOR  
STA 3+78.59 @ 30' RT  
CLOSE NEW 12" GV LT  
CUT AND PLUG 12" CIWTR RT  
REMOVE EX CROSS AND VALVES  
CONNECT STUBOUT TO EX 12" CIWTR RT  
OPEN NEW 12" GV LT  
COORDINATE WITH CONTRACTOR TO FILL AND ABANDON 16" CIWTR PERMANENTLY, PLUG EX 16" CIWTR BK, AHD
- ⑫ BY CITY FORCES AFTER CONTRACTOR  
STA 6+51.52 @ 30' RT  
CLOSE NEW 12" GV LT  
CUT AND PLUG 12" PVC WTR RT  
REMOVE EX CROSS AND VALVES  
CONNECT STUBOUT TO EX 12" PVC WTR RT  
OPEN NEW 12" GV LT  
COORDINATE WITH CONTRACTOR TO FILL AND ABANDON 16" CIWTR PERMANENTLY, PLUG EX 16" CIWTR BK, AHD

PRINCIPLE SETTING OUT LINE

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB	1+00.00	1840661.56	6281448.43	STRAIGHT	148.52	S 89°51'15.65" E
P1	2+48.52	1840661.19	6281596.95	STRAIGHT	23.49	S 89°51'15.65" E
P1	2+72.01	1840661.12	6281620.44	STRAIGHT	106.57	S 89°51'15.65" E
P1	3+78.59	1840660.86	6281727.01	STRAIGHT	86.79	N 89°59'49.17" E
P1	4+65.38	1840660.86	6281813.80	STRAIGHT	186.14	S 89°47'06.13" E
P1	6+51.52	1840660.16	6281999.94	STRAIGHT	16.76	N 44°50'52.35" E
P1	6+68.27	1840660.16	6282016.70	STRAIGHT	19.05	S 89°54'12.16" E
P1	6+87.32	1840664.66	6282030.13	STRAIGHT	197.38	S 89°54'12.16" E
P1	8+87.72	1840664.26	6282227.52	STRAIGHT	57.56	S 89°54'12.16" E

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00	STA. 9+00	800

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.

CONTRACTOR'S NOTE: EX. 16" CIWTR MAIN AND WTR SERVICES FROM STA 1+00 TO STA 9+00 SHALL REMAIN IN SERVICE DURING CONSTRUCTION.

CONTRACTOR'S NOTE: EX. 16" CIWTR MAIN SHALL BE ABAND'D AFTER NEW MAIN IS IN SERVICE AND ALL SERVICES HAVE BEEN TRANSFERRED.

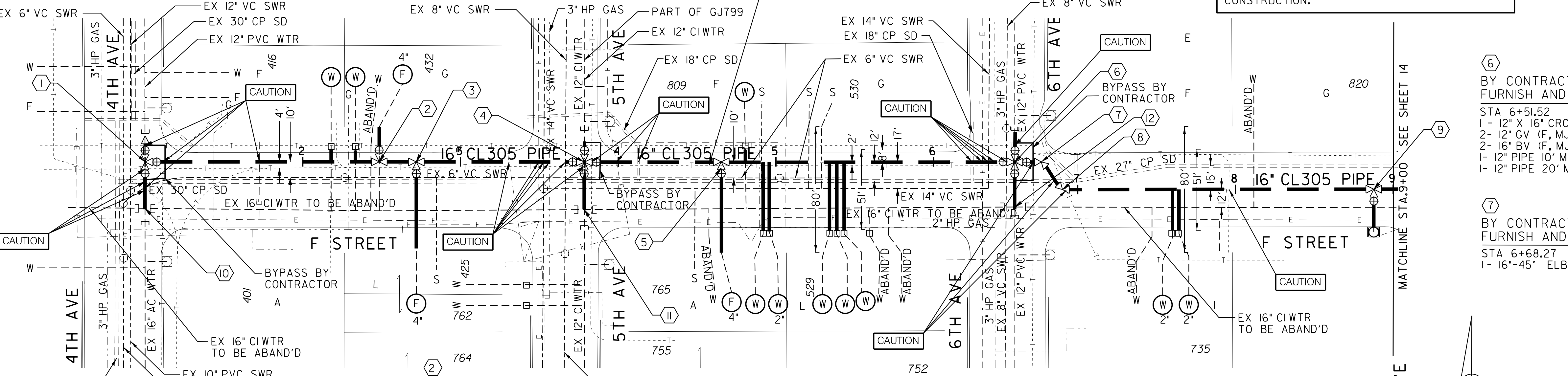
CONTRACTOR'S NOTE: SEE 'DETAIL G' SHEET 25 FOR TYPICAL PROPOSED WATER SERVICE LOCATION WHEN EX SEWER LATERALS & WATER SERVICES ARE IN COMMON TRENCH OR CONFLICT.

CONTRACTOR TO COORDINATE WITH TELEPHONE COMPANY FOR RELOCATION OF EXISTING TELEPHONE LINE.

PROP 8" AND 15" PIPE SWR INCLUDED IN THIS CONTRACT SEE SHEET 4

CONTRACTOR'S NOTE: EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

NOTE: CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.



- REFERENCE:
- WATER: 18322-4-D, 21735-9-D
  - STORM DRAIN: 8783-3-B, 8783-47-B, 21735-9-D, 20227-9-D
  - GAS: 2345-D, 8783-47-B, 57 (50' SCALE)
  - ELECTRIC: 1-14, 1-162, 200-1719A, 2001719B
  - CABLE TV: NONE
  - TELEPHONE: CS0303AD, CS0303BC, CS0303BD
  - IMPROVEMENTS: 21375-9-D
  - 100' SCALE/FIELD BOOK: G225-A
  - THOMAS BROS.: I288-A3, I289-B3
  - HGL: 231
  - SIDEWALK: CCDC-SSM
- RETIREMENTS:
- 16" - CI - 800' - 1910
  - 4" FS - CI - 1910
  - 1" SERVICE - 10 - UNK MATERIAL - 1910
  - 2" SERVICE - 4 - UNK MATERIAL - 1910
  - 4" SERVICE - 1 - UNK MATERIAL - 1910

- ① BY CITY FORCES AHD OF CONTRACTOR  
STA 1+00  
CUT AND PLUG:  
EX 12" PVC WTR 20' LT  
EX 16" AC WTR 20' RT  
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.
- ① BY CONTRACTOR FURNISH AND INSTALL  
STA 1+00  
1- 16" X 16" TEE (F)  
3- 16" BV (F, MJ) LT, RT, AHD  
1- 12" X 16" REDUCER 3' LT  
1- 16" PIPE 10' MIN STUB OUT LT  
1- 16" PIPE 10' MIN STUB OUT RT.
- ② BY CONTRACTOR FURNISH AND INSTALL  
STA 2+48.52  
1- 16" X 4" TEE (MJ, MJ, F)  
1- 4" FS ASSY
- ③ BY CONTRACTOR FURNISH AND INSTALL  
STA 2+72.01  
1- 16" X 4" TEE (MJ, MJ, F)  
1- 4" FS CONNECTION & ASSY
- ④ BY CITY FORCES AHD OF CONTRACTOR  
STA 3+78.59  
CUT AND PLUG:  
EX 12" CIWTR 20' LT,  
EX 12" CIWTR 20' RT  
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.
- ④ BY CONTRACTOR FURNISH AND INSTALL  
STA 3+78.59  
1- 12" X 16" CROSS (F)  
2- 12" GV (F, MJ) LT, RT  
2- 16" BV (F, MJ) BK, AHD  
1- 12" PIPE 10' MIN STUB OUT LT  
1- 12" PIPE 10' MIN STUB OUT RT
- ⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 4+65.38  
1- 16" X 4" TEE (MJ, MJ, F)  
1- 4" FS CONNECTION & ASSY
- ⑥ BY CITY FORCES AHD OF CONTRACTOR  
STA 6+51.52  
CUT AND PLUG:  
EX 12" PVC WTR 10' LT  
EX 12" PVC WTR 10' RT  
RECONNECT AFTER NEW MAIN HAS BEEN ACCEPTED.

**C-12**

**SEWER AND WATER GROUP 957**  
F STREET  
4TH AVE TO 7TH AVE

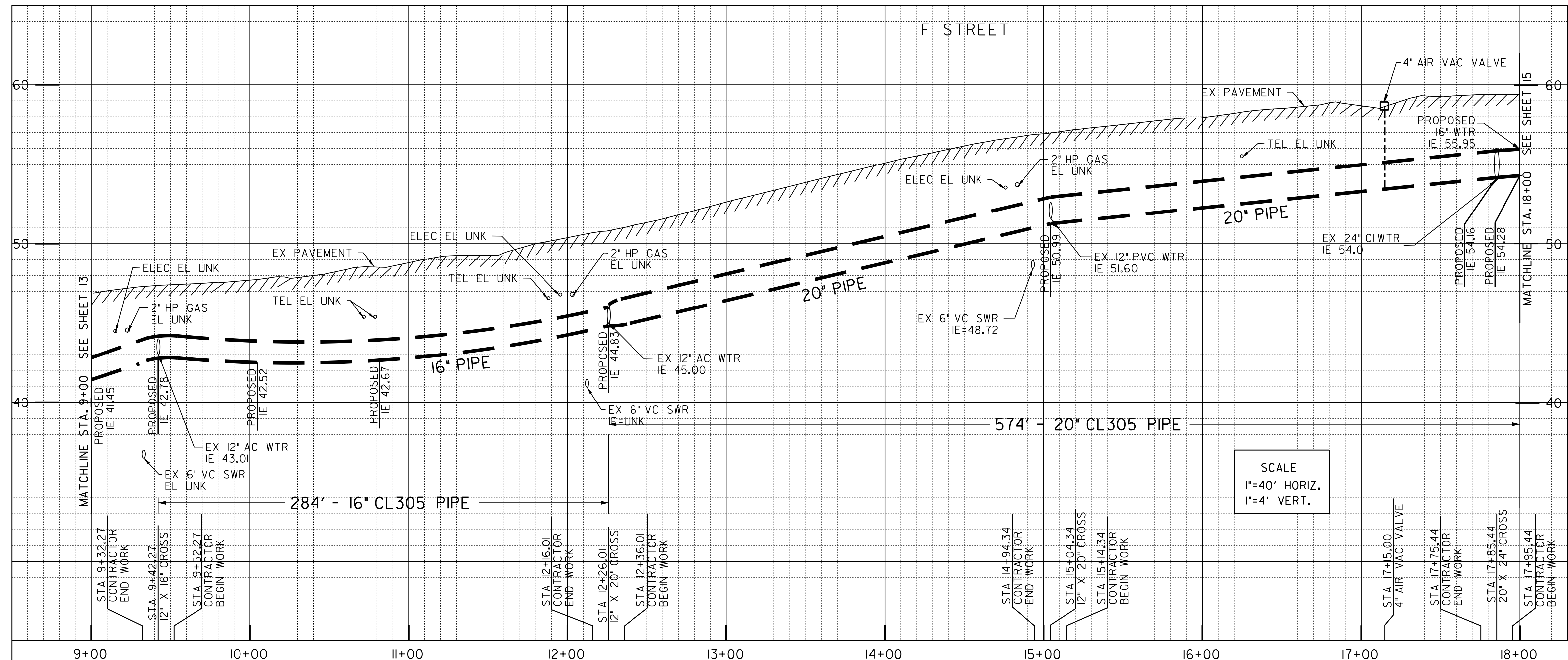
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 13 OF 28 SHEETS		WATER WBS: B1154 SEWER WBS: N/A
FOR CITY ENGINEER: <i>[Signature]</i>	DATE: 02-13-13	PROJECT MANAGER: JIM HAGHGOUY
DESCRIPTION	BY	APPROVED
ORIGINAL	AM/SS	
DATE		FILMED
198-1719		
6280407-1838444		
CONTRACTOR: _____		DATE STARTED: _____
INSPECTOR: _____		DATE COMPLETED: _____

36689-13-D



SCALE 1"=40' FEET

F STREET

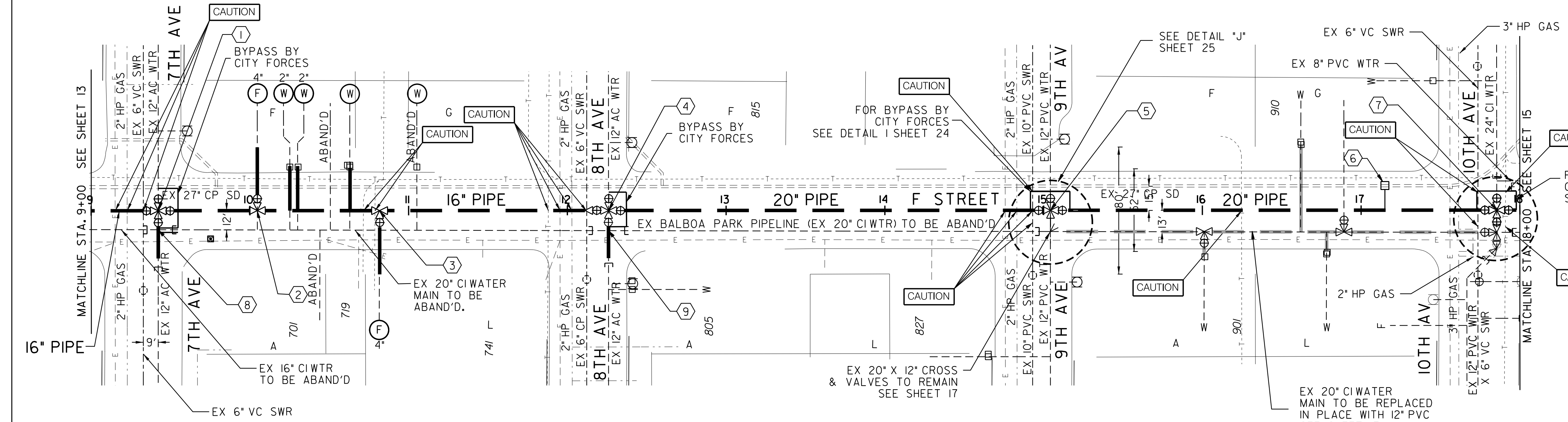


POINT CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
PI 9+42.27	1840646.15	6282285.08	STRAIGHT	62.44	S 89°58'35.61" E
PI 10+04.70	1840646.13	6282347.51	STRAIGHT	77.01	S 89°50'58.05" E
PI 10+81.71	1840645.89	6282424.52	STRAIGHT	144.30	S 89°51'09.69" E
PI 12+26.01	1840645.52	6282568.82	STRAIGHT	278.33	S 89°51'09.69" E
PI 15+04.34	1840644.80	6282847.15	STRAIGHT	210.66	S 89°51'09.69" E
PI 17+15.00	1840644.26	6283057.81	STRAIGHT	70.44	S 89°52'25.80" E
POE 17+85.44	1840644.10	6283128.25			

ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)		
BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00	STA. 18+00	1700.00

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.

- (7) BY CITY FORCES AHD OF CONTRACTOR  
 STA 17+85.44  
 CUT IN:  
 1- 24" X 20" CROSS (F)  
 2- 24" BV (F, MJ) LT, RT  
 2- 20" BV (F, MJ) BK, AHD  
 OPEN BV LT, RT  
 CLOSE BV BK AND AHD,  
 AFTER NEW MAIN HAS BEEN ACCEPTED, CONNECT TO 20" PIPE AND OPEN 20" VALVE BK, AHD.
- (8) BY CITY FORCES AHD OF CONTRACTOR  
 STA 1+00 @ 10' RT  
 CLOSE NEW 12" VALVE LT  
 CUT AND PLUG  
 EX 12" AC WTR RT  
 REMOVE EX 20" X 12" CROSS  
 CONNECT STUBOUT TO EX 12" AC WTR RT  
 OPEN NEW 12" GV LT  
 COORDINATE WITH CONTRACTOR TO FILL AND ABANDON EX 20" CIWTR PERMANENTLY, PLUG EX 20" CIWTR AHD, BK
- (9) BY CITY FORCES AHD OF CONTRACTOR  
 STA 12+26.01 @ 13' RT  
 CLOSE NEW 12" VALVE LT  
 CUT AND PLUG  
 EX 12" AC WTR RT  
 REMOVE EX 20" X 12" CROSS  
 CONNECT STUBOUT TO EX 12" AC WTR RT  
 OPEN NEW 12" GV LT  
 COORDINATE WITH CONTRACTOR TO FILL AND ABANDON EX 20" CIWTR PERMANENTLY, PLUG EX 20" CIWTR AHD, BK



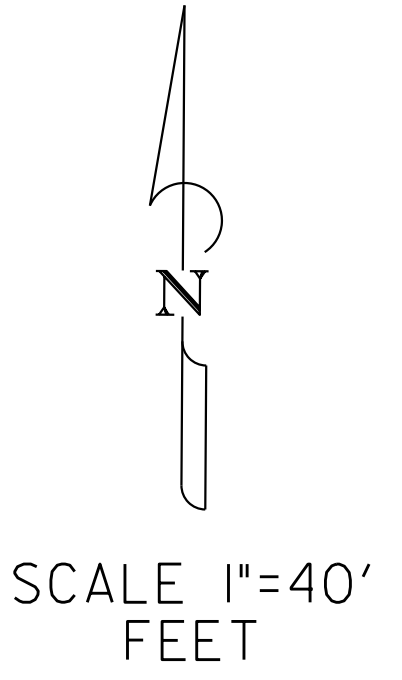
- REFERENCE:
- WATER: 18544-3-D, 69 (50 SCALE)  
 30406-3-D  
 69 (50 SCALE), 75 (50 SCALE)  
 2344-D
- SEWER: 2344-D  
 69 (50 SCALE), 75 (50 SCALE)
- STORM DRAIN: 2344-D
- GAS: 1-139, 1-141  
 200-1719B
- ELECTRIC: 200-1719B
- CABLE TV: NONE
- TELEPHONE: NONE
- IMPROVEMENTS: NONE
- 100' SCALE/FIELD BOOK: G22S-A
- THOMAS BROS.: 1289-B3
- HGL: 231
- SIDEWALK: CCDC-SSM
- RETIREMENTS:  
 20" - CI - 798.13' - 1911  
 4" FS - 3 - 1911  
 1" SERVICE - 2 - UNK MATERIAL - 1911  
 2" SERVICE - 2 - UNK MATERIAL - 1911

NOTE:  
 CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

CONTRACTOR'S NOTE:  
 EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

CONTRACTOR'S NOTE:  
 EX. 16" CIWTR MAIN & EX 20" CIWTR MAIN SHALL BE ABAND'D AFTER NEW MAIN IS IN SERVICE AND ALL SERVICES HAVE BEEN TRANSFERRED.

- (1) BY CITY FORCES AHD OF CONTRACTOR  
 STA 9+42.27  
 CUT IN:  
 1- 16" X 12" CROSS (F)  
 2- 12" GV (F, MJ) LT, RT  
 2- 16" BV (F, MJ) BK, AHD  
 1- 12" PIPE MIN 10' STUB OUT RT  
 OPEN GV LT, RT  
 CLOSE VALVE AHD, BK  
 AFTER NEW MAIN HAS BEEN ACCEPTED, CONNECT TO 16" BV AND OPEN VALVE BK, AHD.
- (2) BY CONTRACTOR FURNISH AND INSTALL  
 STA 10+4.70  
 1- 16" X 4" TEE (MJ, MJ, F) & ASSY
- (3) BY CONTRACTOR FURNISH AND INSTALL  
 STA 10+81.71  
 1- 16" X 4" TEE (MJ, MJ, F) & ASSY
- (4) BY CITY FORCES AHD OF CONTRACTOR  
 STA 12+26.01  
 CUT IN:  
 1- 20" X 12" CROSS (F)  
 2- 20" BV (F, MJ) AHD BK  
 2- 12" GV (F, MJ) LT, RT  
 1- 16" X 20" REDUCER 3" BK  
 1- 12" PIPE MIN 10' STUB OUT RT  
 OPEN GV LT, RT  
 CLOSE BV BK, AHD  
 AFTER NEW MAIN HAS BEEN ACCEPTED, CONNECT TO 20" BV AHD AND 16" REDUCER BK, OPEN VALVES BK, AHD.
- (5) BY CITY FORCES AHD OF CONTRACTOR  
 STA 15+04.34  
 CUT IN:  
 1- 20" X 12" CROSS (F, F, F, MJ)  
 2- 20" BV (F, MJ) AHD, BK  
 1- 12" GV (F, MJ) LT  
 CLOSE BV BK, AHD, AFTER NEW MAIN HAS BEEN ACCEPTED, CONNECT TO 20" BV AND OPEN VALVE BK, AHD.
- (6) BY CONTRACTOR FURNISH AND INSTALL  
 STA 17+15.00  
 1- 4" AIR VALVE



SEWER AND WATER GROUP 957  
 F STREET  
 7TH AVE TO 10TH AVE

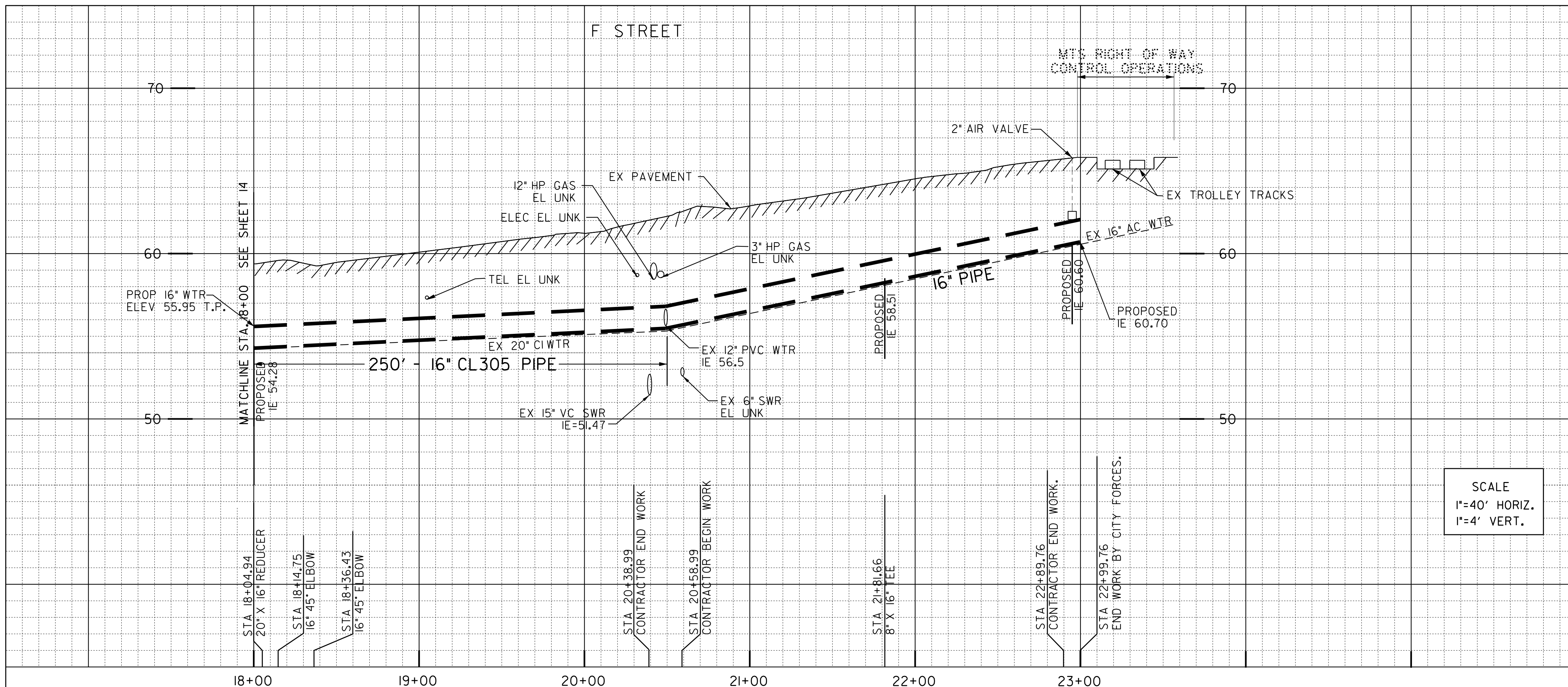
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 14 OF 28 SHEETS		WATER WBS: B1154 SEWER WBS: N/A
FOR CITY ENGINEER: <i>[Signature]</i>	DATE: 02-13-13	PROJECT MANAGER: JIM HAGGOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	PROJECT ENGINEER: ALI MOHAMMADIAN
APPROVED: [ ]	DATE: [ ]	COORDINATOR: 198-1719
FILMED: [ ]		COORDINATOR: 6280407-1838444
CONTRACTOR: [ ]	DATE STARTED: [ ]	COORDINATOR: CC88
INSPECTOR: [ ]	DATE COMPLETED: [ ]	PROJECT NUMBER: 36689-14-D



F STREET

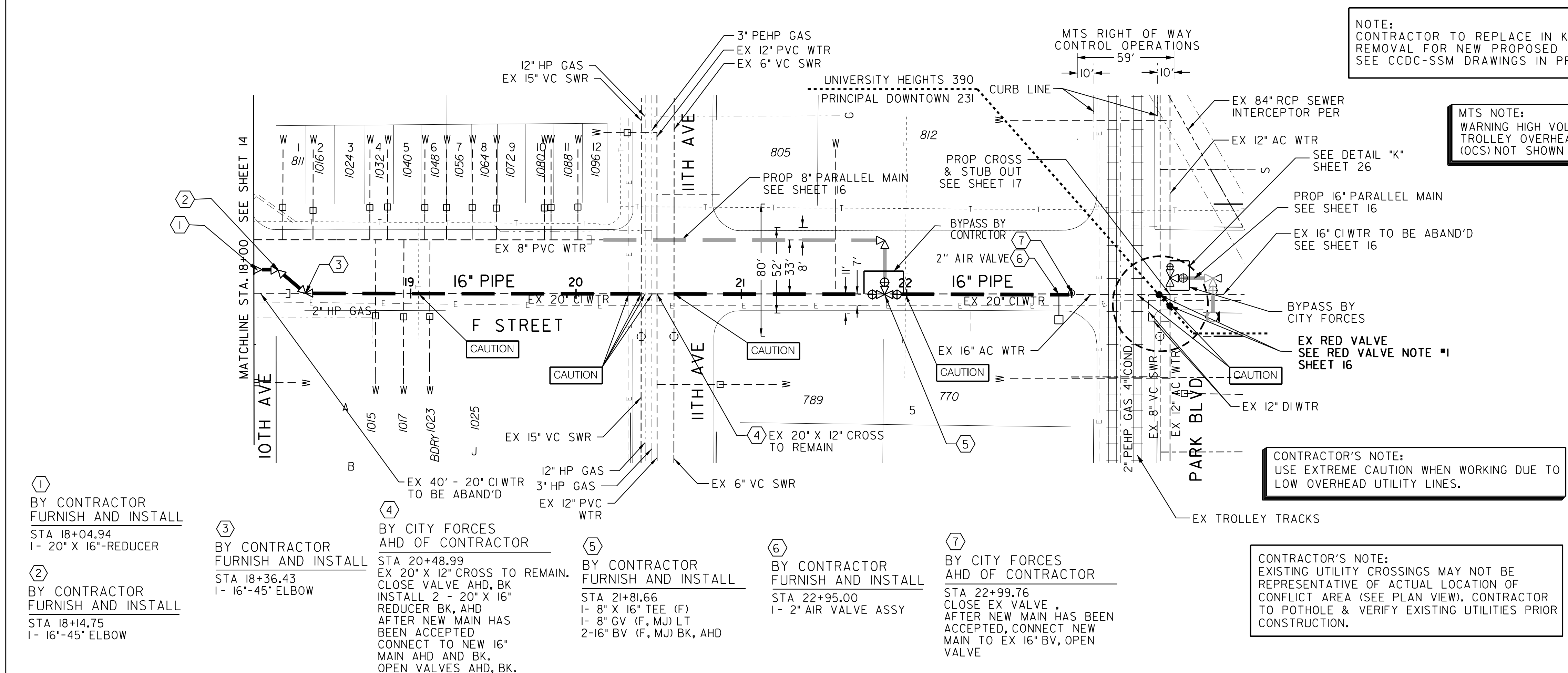
C-13





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

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00" (STRAIGHT))
PI	18+04.94	1840644.29	6283147.75	STRAIGHT	9.81	S 88°14'56.50" E
PI	18+14.75	1840643.99	6283157.56	STRAIGHT	21.67	S 49°31'44.75" E
PI	18+36.43	1840629.93	6283174.04	STRAIGHT	212.56	S 89°44'52.42" E
PI	20+48.99	1840629.09	6283386.61	STRAIGHT	37.67	N 89°40'50.03" E
PI	21+86.66	1840628.39	6283524.28	STRAIGHT	105.38	N 89°37'41.03" E
PI	22+95.00	1840628.15	6283629.66	STRAIGHT	7.72	N 89°37'41.03" E
POE	22+99.76	1840629.12	6283637.37			



NOTE:  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

MTS NOTE:  
WARNING HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM (OCS) NOT SHOWN

REFERENCE:

WATER:	30406-03-D
SEWER:	11057-13-D
STORM DRAIN:	SD
GAS:	I-141, I-143
ELECTRIC:	NONE
CABLE TV:	NONE
TELEPHONE:	NONE
IMPROVEMENTS:	NONE
100' SCALE/FIELD BOOK:	G225-A
THOMAS BROS.:	1289-B3
HGL:	231
SIDEWALK:	CCDC-SSM

RETIREMENTS:  
20' - CI - 711' - 1960

- ① BY CONTRACTOR FURNISH AND INSTALL STA 18+04.94 1- 20" X 16"-REDUCER
- ② BY CONTRACTOR FURNISH AND INSTALL STA 18+14.75 1- 16"-45" ELBOW

- ③ BY CONTRACTOR FURNISH AND INSTALL STA 18+36.43 1- 16"-45" ELBOW

- ④ BY CITY FORCES AHD OF CONTRACTOR STA 20+48.99 EX 20" X 12" CROSS TO REMAIN. INSTALL 2 - 20" X 16" REDUCER BK, AHD AFTER NEW MAIN HAS BEEN ACCEPTED CONNECT TO NEW 16" MAIN AHD AND BK. OPEN VALVES AHD, BK.

- ⑤ BY CONTRACTOR FURNISH AND INSTALL STA 21+81.66 1- 8" X 16" TEE (F) 1- 8" GV (F, MJ) LT 2-16" BV (F, MJ) BK, AHD

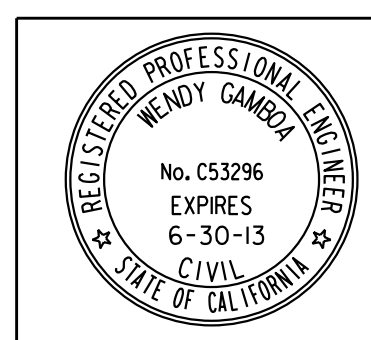
- ⑥ BY CONTRACTOR FURNISH AND INSTALL STA 22+95.00 1- 2" AIR VALVE ASSY

- ⑦ BY CITY FORCES AHD OF CONTRACTOR STA 22+99.76 CLOSE EX VALVE, AFTER NEW MAIN HAS BEEN ACCEPTED, CONNECT NEW MAIN TO EX 16" BV, OPEN VALVE

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

CONTRACTOR'S NOTE:  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POT HOLE & VERIFY EXISTING UTILITIES PRIOR CONSTRUCTION.

SCALE 1"=40' FEET

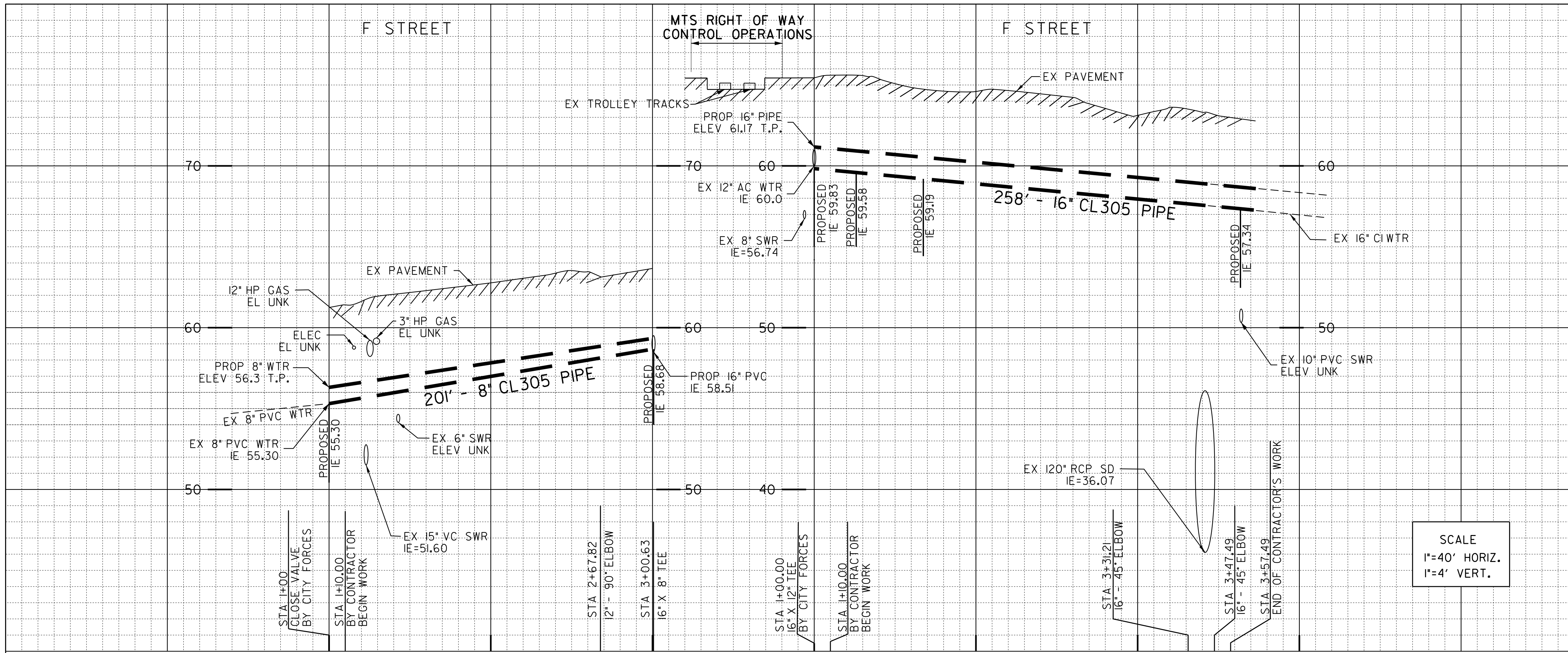


**C-14**

**SEWER AND WATER GROUP 957**  
**F STREET**  
10TH AVE TO PARK BL

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 15 OF 28 SHEETS		WATER WBS: B11154 SEWER WBS: N/A
FOR CITY ENGINEER: <i>W. Sam</i>	DATE: 02-13-13	PROJECT MANAGER: JIM HAGHOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	DATE: FILMED:
CHECKED BY: ALI MOHAMMADIAN PROJECT ENGINEER		198-1719 CCS27 COORDINATE
CONTRACTOR: _____		6280407-1838444 CCS83 COORDINATE
INSPECTOR: _____		36689-15-D

F STREET



PRINCIPLE SETTING OUT LINE FOR PLAN A

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB	1+00.00	1840661.71	6283356.66	STRAIGHT	167.82	S 89°49'22.88" E
PI	2+67.82	1840661.20	6283524.48	STRAIGHT	32.81	S 0°21'09.05" W
POE	3+00.63	1840628.39	6283524.28			

PRINCIPLE SETTING OUT LINE FOR PLAN B

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00") (STRAIGHT)
POB	1+00.00	1840637.98	6283696.90	STRAIGHT	25.97	S 89°51'54.67" E
PI	1+25.97	1840637.92	6283722.87	STRAIGHT	41.63	S 89°51'54.67" E
PI	1+67.59	1840637.82	6283764.50	STRAIGHT	163.62	S 89°51'54.67" E
PI	3+31.21	1840637.42	6283928.12	STRAIGHT	16.27	S 52°12'24.07" E
PI	3+47.49	1840627.45	6283940.98	STRAIGHT	25.39	S 89°46'53.77" E
POE	3+72.99	1840627.34	6283966.48			

**RED VALVE NOTES #1:**

RED VALVES SHALL BE CLOSED AT ALL TIMES PRIOR TO CUT AND PLUGS AND AFTER RECONNECTIONS. CONTRACTOR VIA THE R.E. SHALL COORDINATE WITH SYSTEM OPERATIONS AND SCADA PERSONNEL TO ENSURE RED VALVES ARE CLOSED AND IN WORKING CONDITION PRIOR TO RECONNECTIONS (PHONE # 619-527-7465).

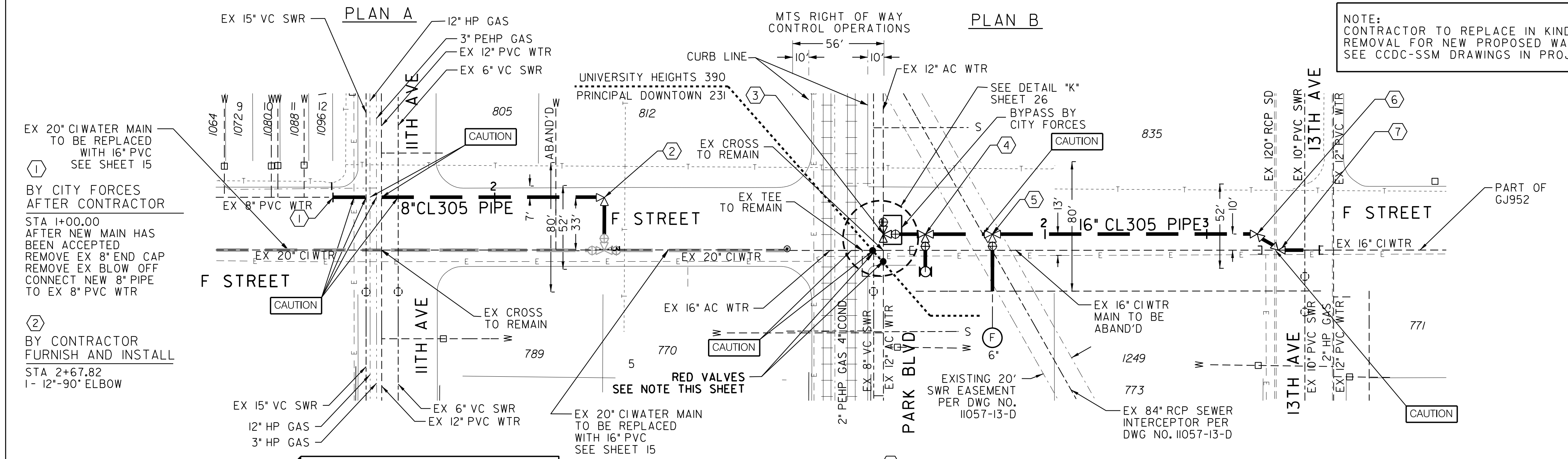
ESTIMATED ARCHAEOLOGICAL MONITORING LIMITS (INCLUDES MAIN, LATERALS, AND OTHER TRENCHING ACTIVITIES)

BEGINNING STATION	ENDING STATION	APPROXIMATE LF
STA. 1+00	STA. 3+00.63	200.63
STA. 1+00	STA. 3+57.49	257.49

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.

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

NOTE:  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.



**REFERENCE:**

WATER:	30406-7-D, 18576-82-D
SEWER:	18576-74-D, 11057-13-D
STORM DRAIN:	3620-D
GAS:	1-145, 1-143
ELECTRIC:	NONE
CABLE TV:	NONE
TELEPHONE:	NONE
IMPROVEMENTS:	NONE
100' SCALE/FIELD BOOK:	G22-B
THOMAS BROS.:	1289-B3
HGL:	390/231
SIDEWALK:	CCDC-SSM

**RETIREMENTS:**

16" - CI - 237.79' - 1960
6" FS - 1
1" SERVICE - 1 - UNK MATERIAL - 1960

**MTS NOTE:**  
WARNING HIGH VOLTAGE 650V DC TROLLEY OVERHEAD CATENARY SYSTEM (OCS) NOT SHOWN

**CONTRACTOR'S NOTE:**  
EX. 16" CIWTR MAIN SHALL BE ABAND'D AFTER NEW MAIN IS IN SERVICE AND ALL SERVICES HAVE BEEN TRANSFERED.

**CONTRACTOR'S NOTE:**  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

③ BY CITY FORCES AHD OF CONTRACTOR

- STA 1+00 CUT IN:
- 1- 16" X 16" TEE (F, F, MJ)
- 1- 12" GV (F, MJ) LT
- 1- 16" BV (F, MJ) AHD
- 2- 16" X 12" REDUCER LT, RT OPEN BV LT
- CLOSE NEW 16" BV AHD, AFTER NEW MAIN HAS BEEN ACCEPTED CONNECT TO NEW 16" BV AHD AND OPEN VALVE.

④ BY CONTRACTOR FURNISH AND INSTALL

- STA 1+25.97
- 1- 16" X 6" TEE (MJ, MJ, F)
- 1- 6" FH ASSY AND MARKER
- ⑤ BY CONTRACTOR FURNISH AND INSTALL
- STA 1+67.59
- 1- 16" X 6" TEE (MJ, MJ, F)
- 1- 6" FS CONNECTION & ASSY

⑥ BY CONTRACTOR FURNISH AND INSTALL

- STA 3+31.21
- 1- 16" 45° ELBOW

⑦ BY CITY FORCES AHD OF CONTRACTOR

- STA 3+47.49
- CUT AND PLUG EXISTING 16" CIWTR 10' BK AND 20' AHD
- AFTER NEW MAIN HAS BEEN ACCEPTED, REMOVE PLUG AND CONNECT 16" STUBOUT TO EXISTING VALVE AHD.

⑧ BY CONTRACTOR FURNISH AND INSTALL

- STA 3+47.49
- 1- 16"-45° ELBOW
- 1- 16"-10' MIN STUBOUT AHD.

SCALE 1"=40' FEET



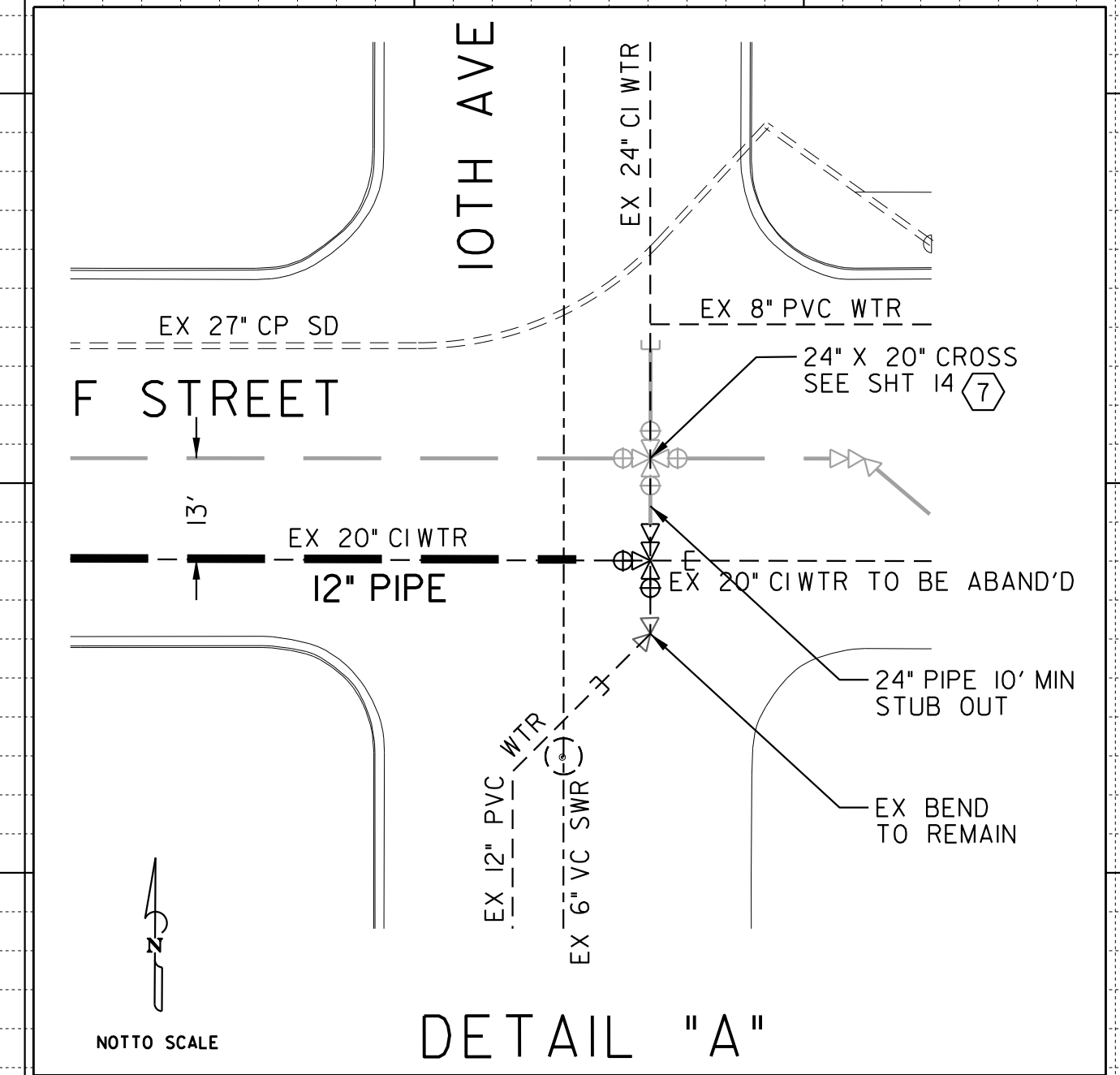
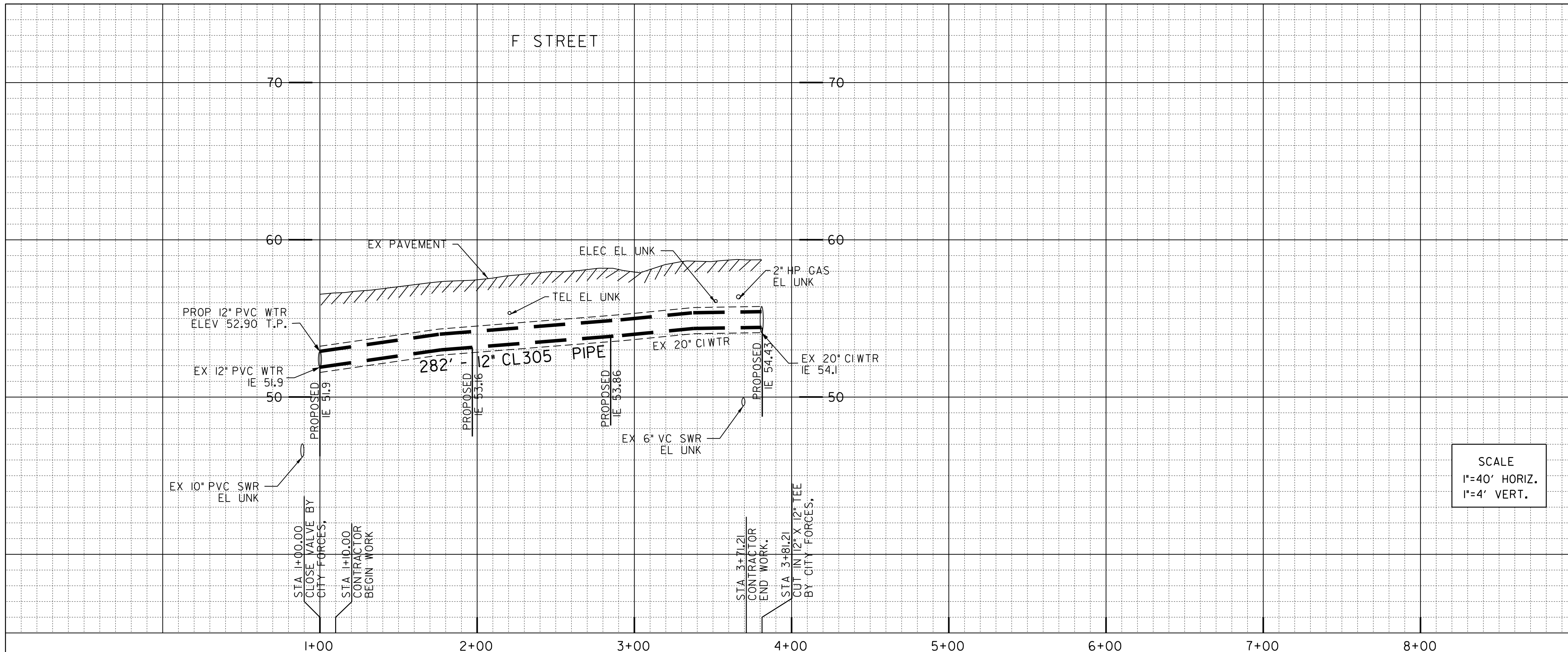
**C-15**

SEWER AND WATER GROUP 957  
F STREET  
11TH AVE TO 13TH ST

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 16 OF 28 SHEETS		WATER WBS: B1154 SEWER WBS: N/A
FOR CITY ENGINEER: <i>[Signature]</i>	DATE: 02-13-13	PROJECT MANAGER: JIM HAGGOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	APPROVED: ALI MOHAMMADIAN
		PROJECT ENGINEER
		198-1719
		CCS27 COORDINATE
		6280407-1838444
		CCS83 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____	36689-16-D
INSPECTOR: _____	DATE COMPLETED: _____	

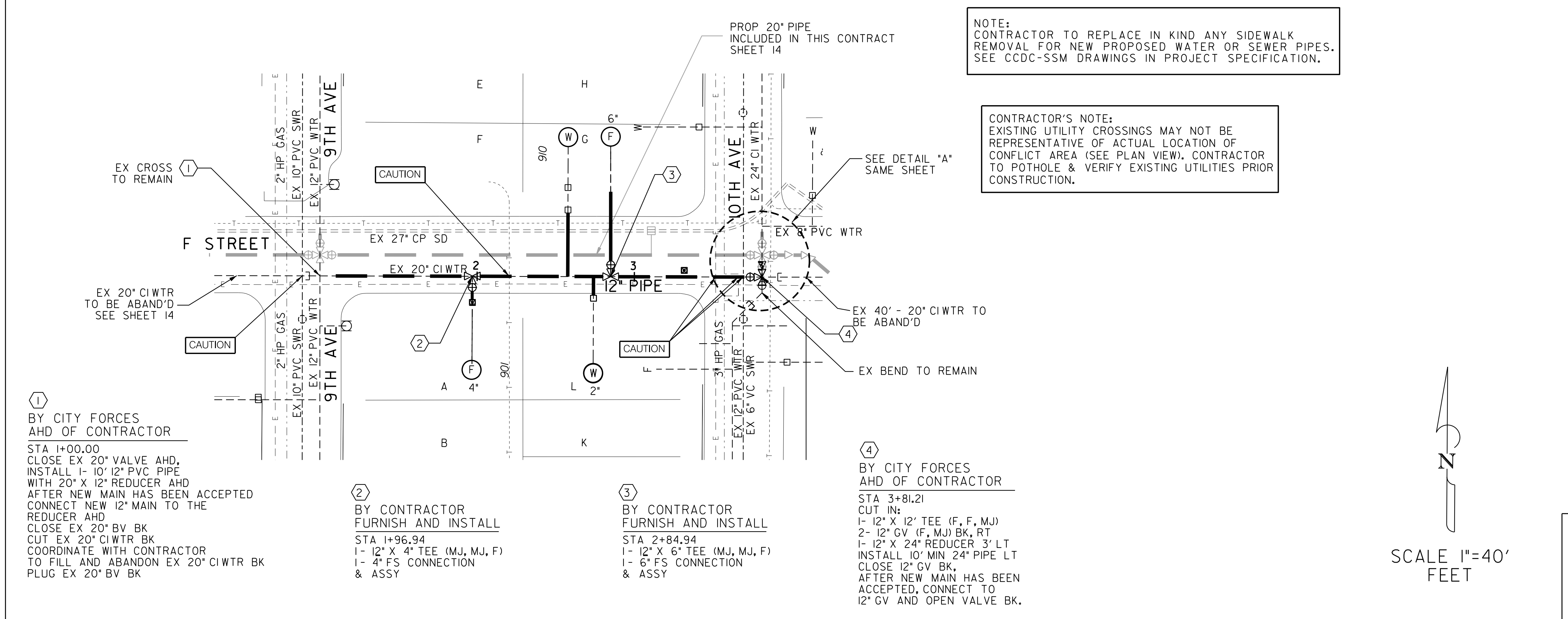
F STREET





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

POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00")
POB	1+00.00	1840631.44	6282847.02	STRAIGHT	281.21	S 89°43'32.51" E
PI	1+96.94	1840631.19	6282943.96	STRAIGHT	88.00	S 89°34'52.76" E
PI	2+84.94	1840630.54	6283031.96	STRAIGHT	96.27	S 89°43'57.92" E
POE	3+81.21	1840630.09	6283128.23			



NOTE:  
CONTRACTOR TO REPLACE IN KIND ANY SIDEWALK REMOVAL FOR NEW PROPOSED WATER OR SEWER PIPES. SEE CCDC-SSM DRAWINGS IN PROJECT SPECIFICATION.

CONTRACTOR'S NOTE:  
EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POTHOLE & VERIFY EXISTING UTILITIES PRIOR CONSTRUCTION.

REFERENCE:

WATER:	30406-3-D, 69 (50 SCALE)
SEWER:	20227-9-D
STORM DRAIN:	SD
GAS:	1-162, 1-39, 1-141
ELECTRIC:	NONE
CABLE TV:	NONE
TELEPHONE:	NONE
IMPROVEMENTS:	NONE
100' SCALE/FIELD BOOK:	C225-A
THOMAS BROS.:	1289-B3
HGL:	231
SIDEWALK:	CCDC-SSM

RETIREMENTS:  
20" - CI - 281.20' - 1911  
1" SERVICE - 1 - UNK MATERIAL - 1911  
2" SERVICE - 1 - UNK MATERIAL - 1911  
4" SERVICE - 1 - UNK MATERIAL - 1911

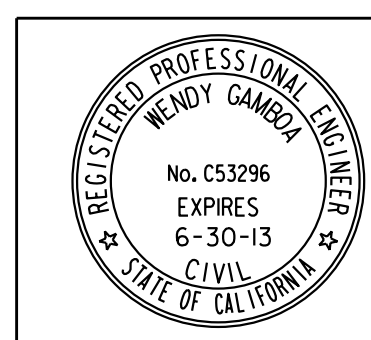
① BY CITY FORCES AHD OF CONTRACTOR  
STA 1+00.00  
CLOSE EX 20" VALVE AHD, INSTALL 1- 10" 12" PVC PIPE WITH 20" X 12" REDUCER AHD AFTER NEW MAIN HAS BEEN ACCEPTED CONNECT NEW 12" MAIN TO THE REDUCER AHD  
CLOSE EX 20" BV BK  
CUT EX 20" CIWTR BK  
COORDINATE WITH CONTRACTOR TO FILL AND ABANDON EX 20" CIWTR BK  
PLUG EX 20" BV BK

② BY CONTRACTOR FURNISH AND INSTALL  
STA 1+96.94  
1- 12" X 4" TEE (MJ, MJ, F)  
1- 4" FS CONNECTION & ASSY

③ BY CONTRACTOR FURNISH AND INSTALL  
STA 2+84.94  
1- 12" X 6" TEE (MJ, MJ, F)  
1- 6" FS CONNECTION & ASSY

④ BY CITY FORCES AHD OF CONTRACTOR  
STA 3+81.21  
CUT IN:  
1- 12" X 12" TEE (F, F, MJ)  
2- 12" GV (F, MJ) BK, RT  
1- 12" X 24" REDUCER 3' LT  
INSTALL 10' MIN 24" PIPE LT  
CLOSE 12" GV BK,  
AFTER NEW MAIN HAS BEEN ACCEPTED, CONNECT TO 12" GV AND OPEN VALVE BK.

SCALE 1"=40' FEET



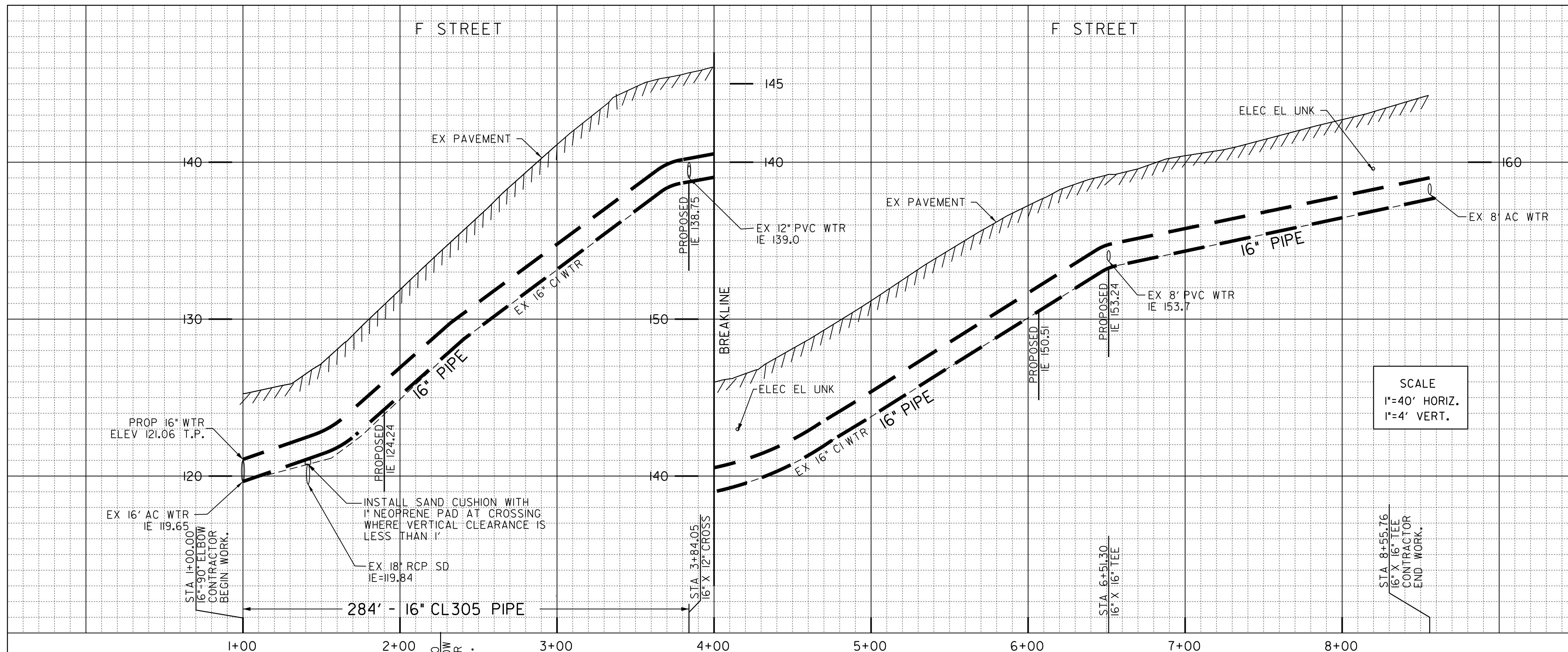
C-16

**SEWER AND WATER GROUP 957**  
F STREET  
9TH AVE TO 10TH AVE

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 17 OF 28 SHEETS		WATER WBS: B11154 SEWER WBS: N/A
FOR CITY ENGINEER: <i>[Signature]</i>	DATE: 02-13-13	PROJECT MANAGER: JIM HAGHGOUY
DESCRIPTION: ORIGINAL	BY: AM/SS	APPROVED: ALI MOHAMMADIAN PROJECT ENGINEER
CONTRACTOR: _____		DATE STARTED: _____
INSPECTOR: _____		DATE COMPLETED: _____
		198-1719 CCS27 COORDINATE 6280407-1838444 CCS83 COORDINATE 36689-17-D

F STREET





POINT	CHAINAGE (ft)	NORTHING (ft)	EASTING (ft)	ELEMENT	LENGTH (ft)	WCB (0°00'00\"/>
POB	1+00.00	1840627.00	6286404.02	STRAIGHT	90.08	S 89°59'59.99\"/>
PI	1+90.08	1840627.00	6286494.10	STRAIGHT	193.97	S 89°59'51.73\"/>
PI	3+84.05	1840627.00	6286688.08	STRAIGHT	267.25	S 89°56'42.12\"/>
PI	6+51.30	1840626.76	6286955.33	STRAIGHT	22.20	N 89°57'12.28\"/>
PI	6+73.51	1840626.58	6286977.53	STRAIGHT	182.25	N 89°58'12.28\"/>
POE	8+55.76	1840626.92	6287159.79			

5  
 BY CONTRACTOR FURNISH AND INSTALL  
 STA 6+73.51  
 1- 16\"/>

6  
 BY CITY FORCES AHD OF CONTRACTOR  
 STA 8+55.76  
 CUT AND PLUG:  
 EX 8\"/>

6  
 BY CONTRACTOR FURNISH AND INSTALL  
 STA 8+55.76  
 1- 16\"/>

SCALE  
 1\"/>

CONTRACTOR'S NOTE:  
 EXISTING UTILITY CROSSINGS MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION OF CONFLICT AREA (SEE PLAN VIEW). CONTRACTOR TO POT HOLE & VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION.

PROP 8\"/>

NOTEM:  
 SIDEWALK PAVING SHALL MATCH EXISTING IN DESIGN, KIND AND COLOR.

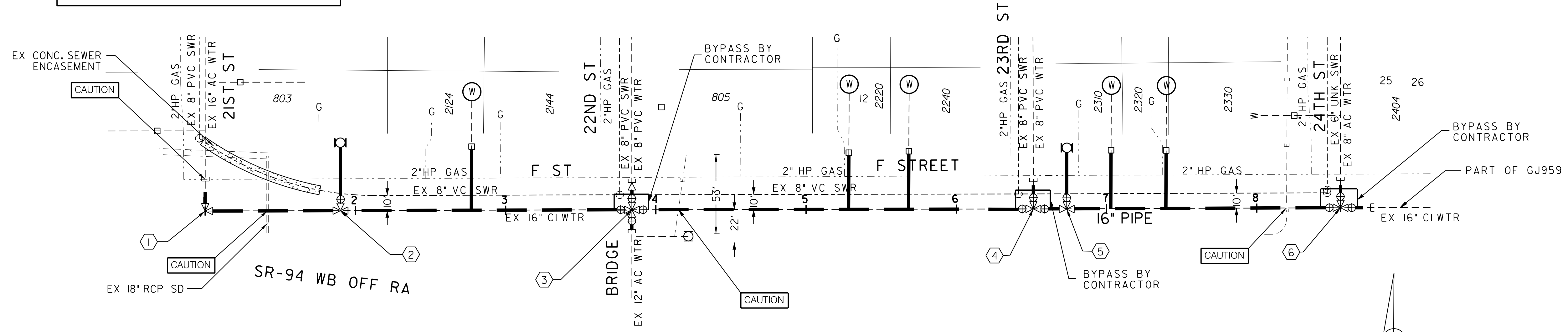
CONTRACTOR'S NOTE:  
 USE EXTREME CAUTION WHEN WORKING DUE TO LOW OVERHEAD UTILITY LINES.

HIGHLINING NOTE:  
 CITY FORCES TO HIGHLINE \"F\" ST FROM STA. 1+00 TO STA. 8+55.77, CITY FORCES TO FURNISH HIGHLINE MATERIALS AND TRANSFER SERVICES.

REFERENCE:

WATER:	9443-D, 27076-12-D, 29045-12/14-D
SEWER:	5367-D, 29045-27/28/31-D
STORM DRAIN:	NONE
GAS:	5-136, 5-154, 5-155,
ELECTRIC:	NONE
CABLE TV:	NONE
TELEPHONE:	NONE
IMPROVEMENTS:	14468-4-L
100' SCALE/FIELD BOOK:	H225
THOMAS BROS.:	1289-C3
HGL:	390

RETIREMENTS:  
 16\"/>



1  
 BY CITY FORCES AHD OF CONTRACTOR  
 STA 1+00  
 CUT AND PLUG:  
 EX 16\"/>

1  
 BY CONTRACTOR FURNISH AND INSTALL  
 STA 1+00  
 1- 16\"/>

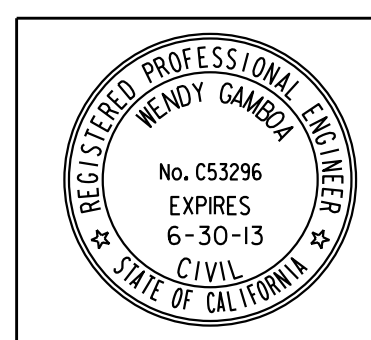
2  
 BY CONTRACTOR FURNISH AND INSTALL  
 STA 1+90.08  
 1- 12\"/>

3  
 BY CITY FORCES AHD OF CONTRACTOR  
 STA 3+84.05  
 CUT AND PLUG:  
 EX 8\"/>

3  
 BY CONTRACTOR FURNISH AND INSTALL  
 STA 3+84.05  
 1- 16\"/>

4  
 BY CITY FORCES AHD OF CONTRACTOR  
 STA 6+51.30  
 CUT AND PLUG:  
 EX 8\"/>

4  
 BY CONTRACTOR FURNISH AND INSTALL  
 STA 6+51.30  
 1- 16\"/>

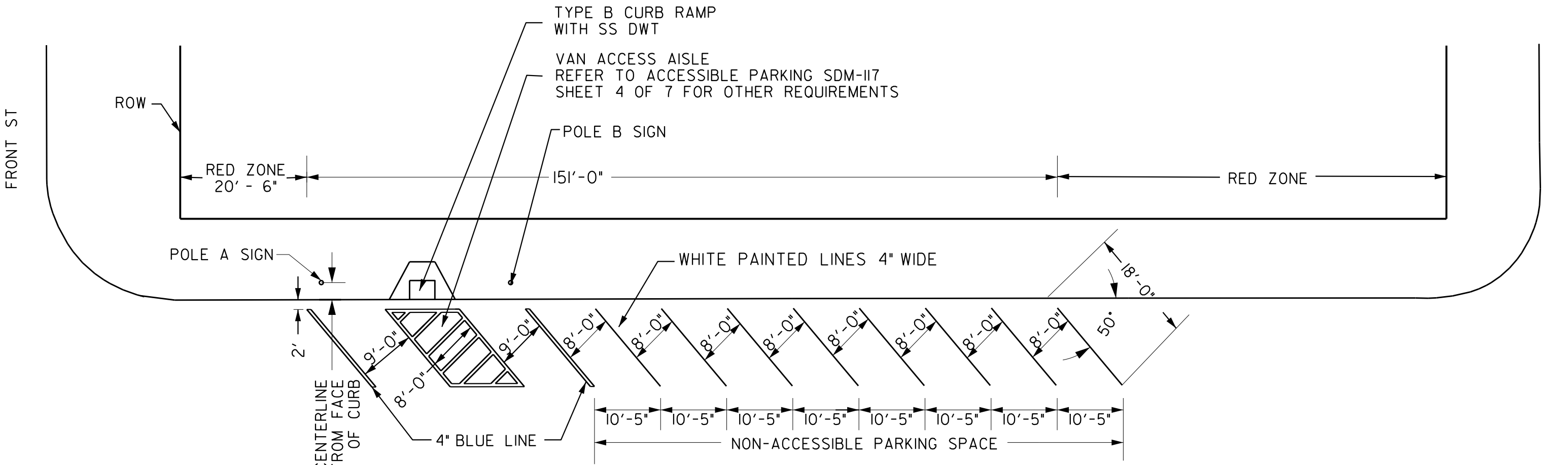
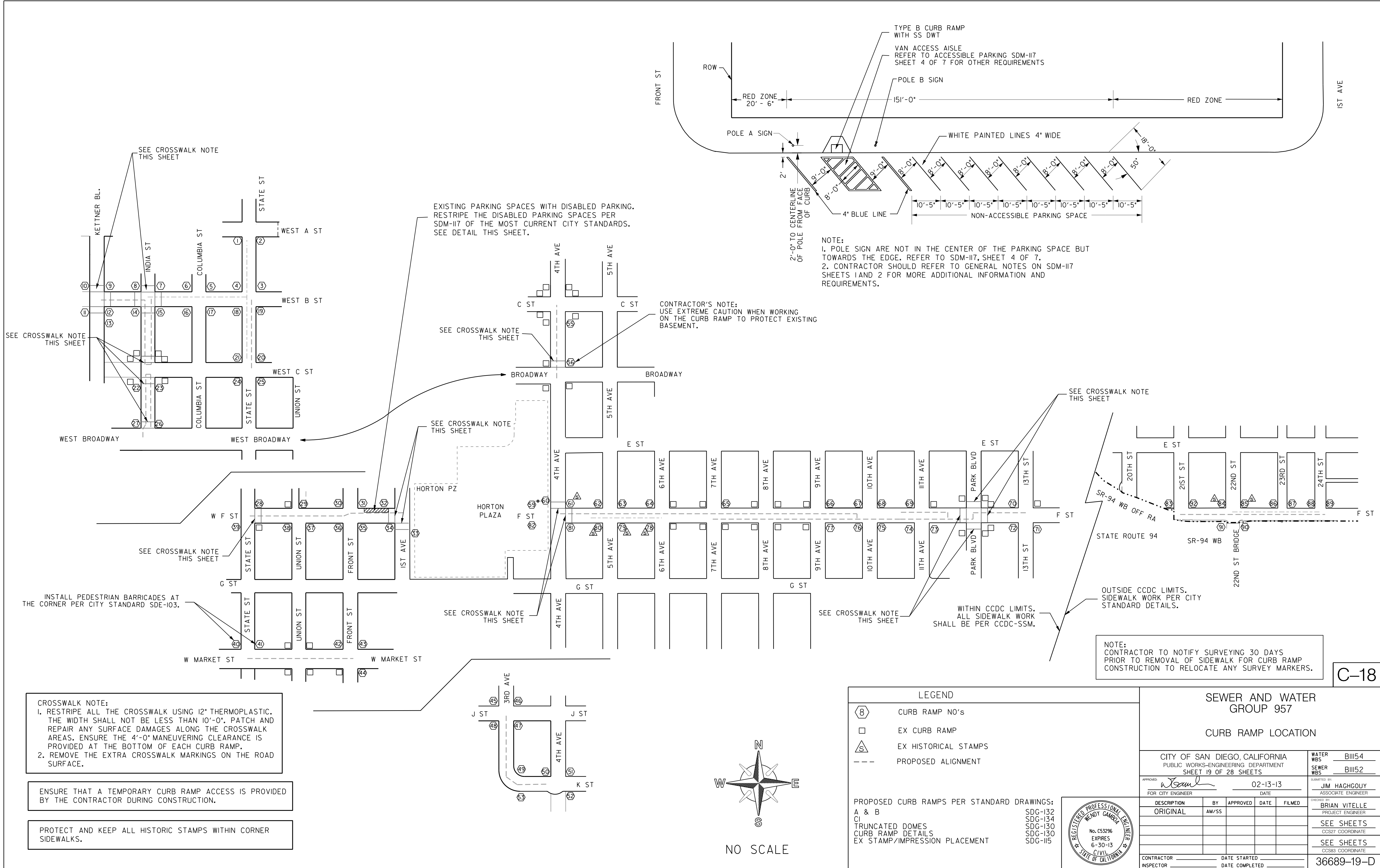


SCALE 1\"/>

C-17

SEWER AND WATER GROUP 957 F STREET 21ST ST TO 25TH ST			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 18 OF 28 SHEETS		WATER WBS: BIII54 SEWER WBS: N/A	DATE: 02-13-13
FOR CITY ENGINEER: <i>W. Sam</i>		PROJECT MANAGER: JIM HAGHGOUY	DATE COMPLETED: _____
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	AM/SS		
CHECKED BY: ALI MOHAMMADIAN PROJECT ENGINEER		198-1719 CCS27 COORDINATE	
CONTRACTOR: _____		DATE STARTED: _____	
INSPECTOR: _____		DATE COMPLETED: _____	
		6280407-1838444 CCS83 COORDINATE	
		36689-18-D	

F STREET



NOTE:  
 1. POLE SIGN ARE NOT IN THE CENTER OF THE PARKING SPACE BUT TOWARDS THE EDGE. REFER TO SDM-II7, SHEET 4 OF 7.  
 2. CONTRACTOR SHOULD REFER TO GENERAL NOTES ON SDM-II7 SHEETS 1 AND 2 FOR MORE ADDITIONAL INFORMATION AND REQUIREMENTS.

CONTRACTOR'S NOTE:  
 USE EXTREME CAUTION WHEN WORKING ON THE CURB RAMP TO PROTECT EXISTING BASEMENT.

EXISTING PARKING SPACES WITH DISABLED PARKING. RESTRIPE THE DISABLED PARKING SPACES PER SDM-II7 OF THE MOST CURRENT CITY STANDARDS. SEE DETAIL THIS SHEET.

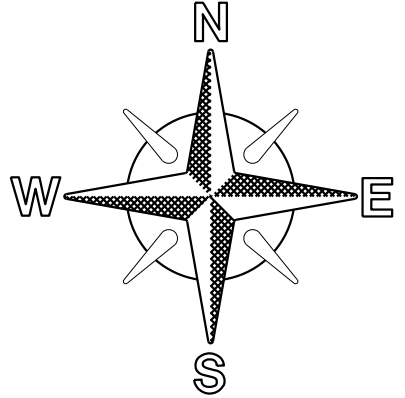
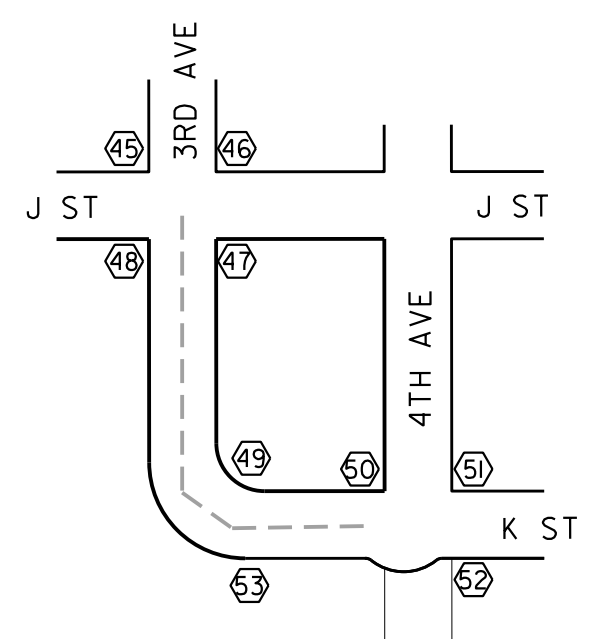
NOTE:  
 CONTRACTOR TO NOTIFY SURVEYING 30 DAYS PRIOR TO REMOVAL OF SIDEWALK FOR CURB RAMP CONSTRUCTION TO RELOCATE ANY SURVEY MARKERS.

INSTALL PEDESTRIAN BARRICADES AT THE CORNER PER CITY STANDARD SDE-103.

CROSSWALK NOTE:  
 1. RESTRIPE ALL THE CROSSWALK USING 12" THERMOPLASTIC. THE WIDTH SHALL NOT BE LESS THAN 10'-0". PATCH AND REPAIR ANY SURFACE DAMAGES ALONG THE CROSSWALK AREAS. ENSURE THE 4'-0" MANEUVERING CLEARANCE IS PROVIDED AT THE BOTTOM OF EACH CURB RAMP.  
 2. REMOVE THE EXTRA CROSSWALK MARKINGS ON THE ROAD SURFACE.

ENSURE THAT A TEMPORARY CURB RAMP ACCESS IS PROVIDED BY THE CONTRACTOR DURING CONSTRUCTION.

PROTECT AND KEEP ALL HISTORIC STAMPS WITHIN CORNER SIDEWALKS.



NO SCALE

LEGEND

- Ⓢ CURB RAMP NO'S
- EX CURB RAMP
- △ EX HISTORICAL STAMPS
- PROPOSED ALIGNMENT

PROPOSED CURB RAMP PER STANDARD DRAWINGS:  
 A & B SDG-132  
 CI SDG-134  
 TRUNCATED DOMES SDG-130  
 CURB RAMP DETAILS SDG-130  
 EX STAMP/IMPRESSION PLACEMENT SDG-115

SEWER AND WATER GROUP 957

CURB RAMP LOCATION

CITY OF SAN DIEGO, CALIFORNIA  
 PUBLIC WORKS-ENGINEERING DEPARTMENT  
 SHEET 19 OF 28 SHEETS

APPROVED: *[Signature]* 02-13-13  
 FOR CITY ENGINEER DATE

DESIGNED BY: *[Signature]* JIM HAGHGOUY  
 ASSOCIATE ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	AM/SS			

CHECKED BY: BRIAN VITELLE  
 PROJECT ENGINEER

SEE SHEETS  
 CCS27 COORDINATE

SEE SHEETS  
 CCS83 COORDINATE

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

36689-19-D

C-18

CURB RAMP LOCATION

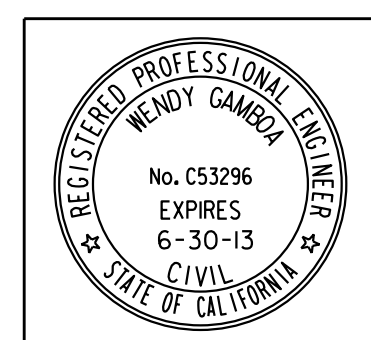
CURB RAMP NOTES TABLE										
LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES		CONSTRAINTS	SIDEWALK MATERIAL		COMMENTS / MODIFICATIONS
					• STAINLESS STEEL	• OTHER		• PAVERS/ CONCRETE	• PAVERS/ BRICKS	
1	A		X		X					
2	A		X		X					SEE DETAIL SHEET 21
3	A		X		X					
4	A		X		X					
5	A		X		X			X		PROVIDE BRICK BORDER OUTSIDE THE 12" GROOVED BORDER
6	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
7	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
8	A		X		X					
9	A		X		X					
10	B		X		X					
11	B		X		X					
12	*		X		X					DIRECTIONAL CURB RAMP, SEE DETAIL SHEET 21
13	B		X		X					
14	A		X		X					
15	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
16	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
17	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
18	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
19	A		X		X					
20	A		X		X					SEE DETAIL SHEET 21
21	C		X		X					SEE DETAIL SHEET 21
22	B		X		X					
23	B		X		X					
24	A		X		X					
25	A		X		X					
26	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
27	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
28	A		X		X					
29	A		X		X			X		THERE IS AN EXISTING MANHOLE NEAR THE CORNER. LOCATE THE NEW CURB RAMP CLOSEST TO AT THE CENTER OF THE SIDEWALK CORNER. MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
30	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
31	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
32	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
33	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
34	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
35	A		X		X					
36	A		X		X					
37	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
38	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
39	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
40	*		X		X			X		DIRECTIONAL CURB RAMP, SEE DETAIL SHEET 21. MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
41	*		X		X			X		DIRECTIONAL CURB RAMP, SEE DETAIL SHEET 21. MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
42	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
43	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
44	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
45	A		X		X					
46	A		X		X					
47	A		X		X					
48	A		X		X					
49	A		X		X					
50	A		X		X					
51	A		X		X					
52	A	X			X					
53	A		X		X					

CURB RAMP NOTES TABLE										
LOCATION NO.	RAMP TYPE	NEW	REPLACEMENT	HISTORIC STAMPS	DETECTABLE WARNING TILES		CONSTRAINTS	SIDEWALK MATERIAL		COMMENTS / MODIFICATIONS
					• STAINLESS STEEL	• OTHER		• PAVERS/ CONCRETE	• PAVERS/ BRICKS	
55	B		X		X					
56	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS AND SPECIFY A 6'-0" WIDE RAMP OPENING.
59	*		X		X					DIRECTIONAL CURB RAMP, SEE DETAIL SHEET 21
60	B		X		X					
61	A		X	X	X					SPECIFY A 6'-0" WIDE RAMP OPENING
62	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS AND SPECIFY A 6'-0" WIDE RAMP OPENING.
63	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS AND SPECIFY A 6'-0" WIDE RAMP OPENING.
64	A		X		X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
65	A		X		X					
66	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
67	A		X		X					
68	A		X		X					
69	A		X		X					
70	A		X		X					
71	A		X		X					
72	A		X		X					
73	A		X		X					
74	A		X		X					
75	A		X		X					
76	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
77	A		X		X					
78	A		X	X	X		X	X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS.
79	A		X	X	X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS AND SPECIFY A 6'-0" WIDE RAMP OPENING.
80	A		X	X	X			X		MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS AND SPECIFY A 6'-0" WIDE RAMP OPENING.
81	A		X		X					MAINTAIN EXISTING SIDEWALK FINISH PER CCDC DETAIL IN SPECIFICATIONS AND SPECIFY A 6'-0" WIDE RAMP OPENING. CURB RAMP TO BE DIRECTIONAL TO NORTHEAST.
82	D		X		X					
83	HALF-FLARED TYPE A	X			X					CURB RAMP TO BE DIRECTIONAL TO NORTHEAST CORNER. SEE DETAIL SHEET 21
84	A		X	X	X					
85	A		X	X	X					
86	A		X		X					
87	A		X		X					
88	A		X		X					
89	A		X		X					
90	CI		X					X		SEE DETAIL SHEET 21
91	CI		X					X		SEE DETAIL SHEET 21
92	A	X						X		

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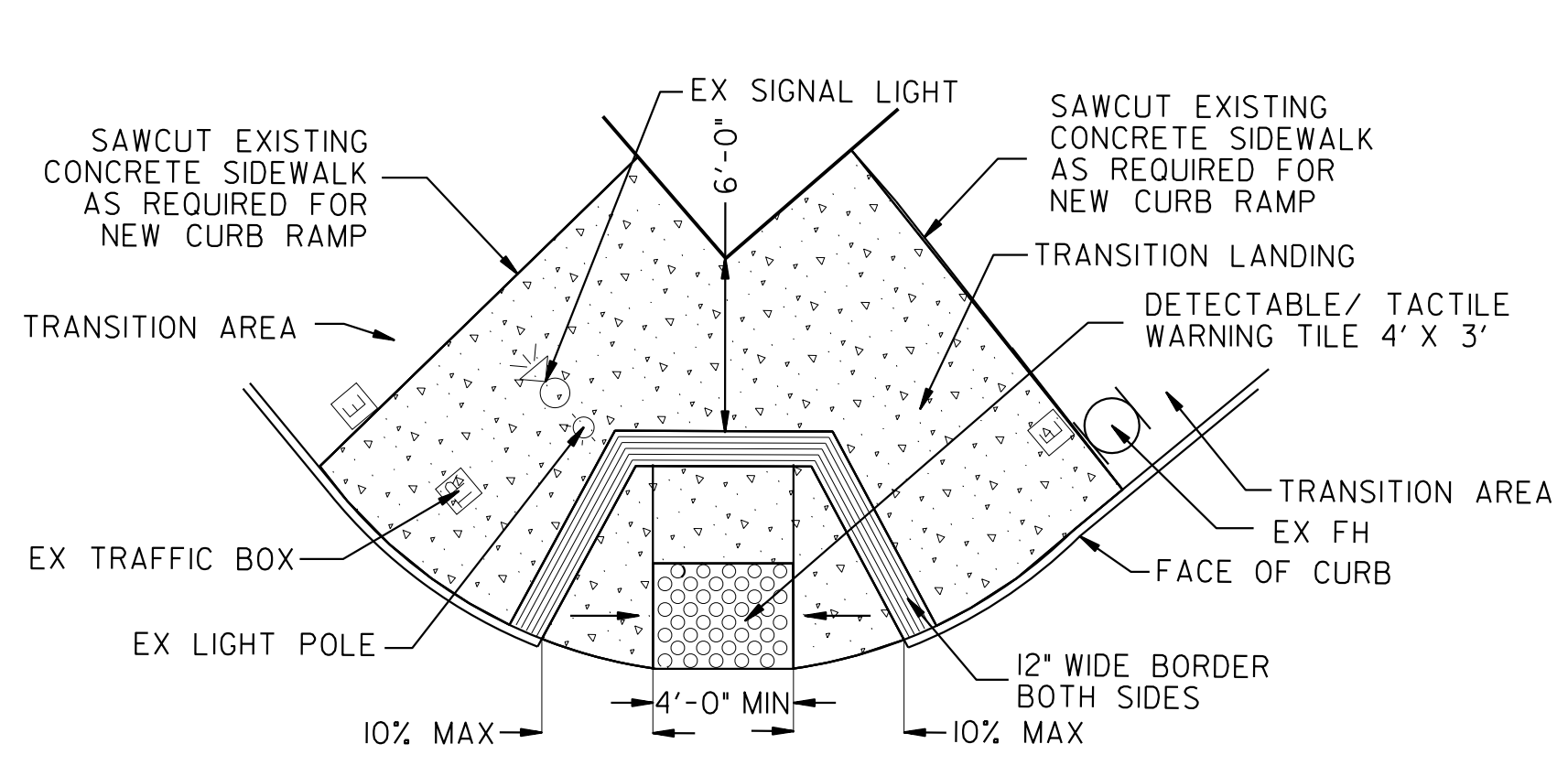
**SEWER AND WATER GROUP 957**  
**CURB RAMP NOTES TABLE**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 20 OF 28 SHEETS		WATER WBS B11154 SEWER WBS B11152
APPROVED BY: <i>[Signature]</i> FOR CITY ENGINEER	DATE: 02-13-13	DRAWN BY: JIM HAGHGOUY ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	BY: AM/SS	CHECKED BY: ALI MOHAMMADIAN PROJECT ENGINEER
		SEE SHEETS CCS27 COORDINATE
		SEE SHEETS CCS83 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____	36689-20-D
INSPECTOR: _____	DATE COMPLETED: _____	

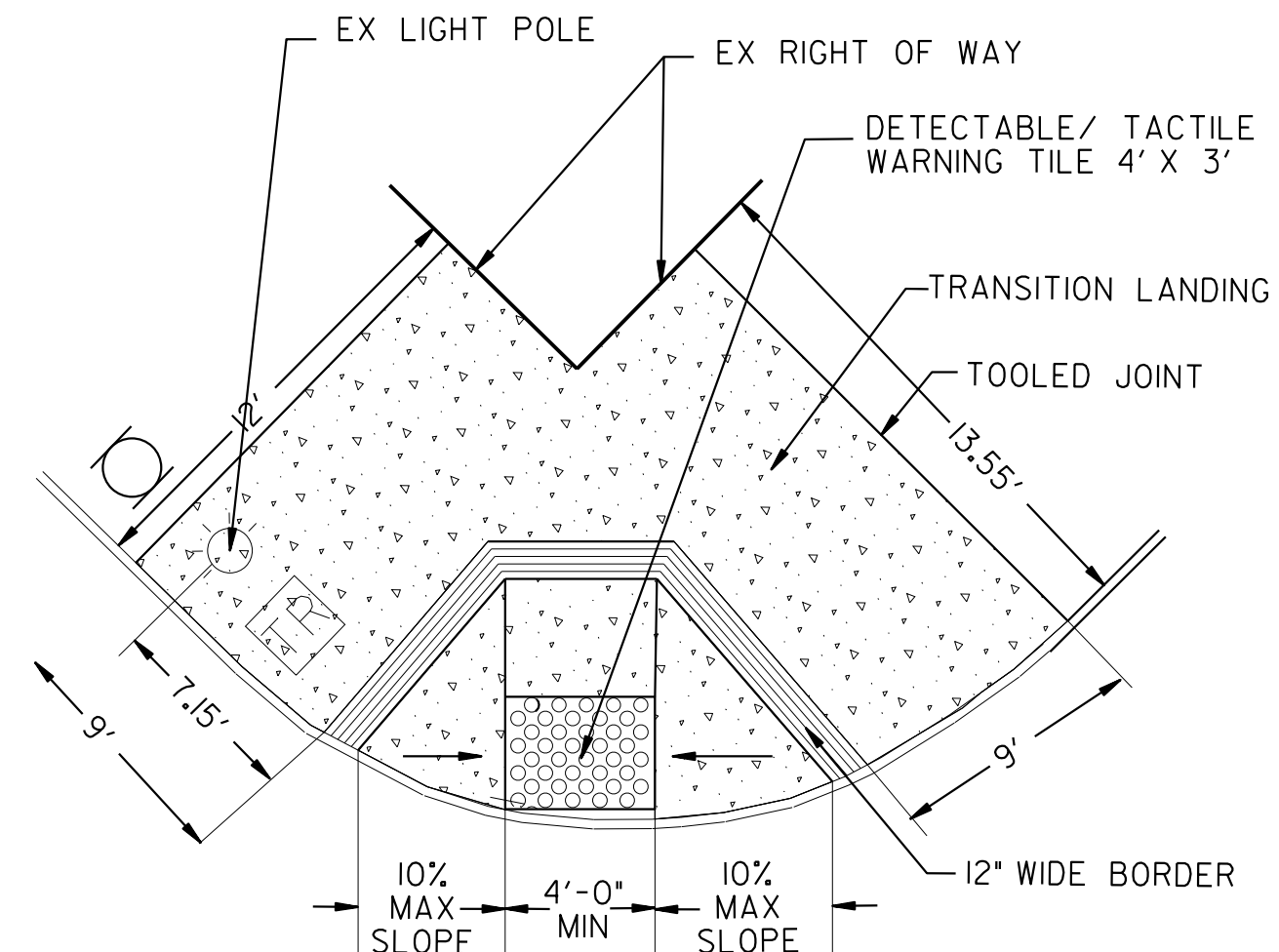


CURB RAMP NOTES TABLE

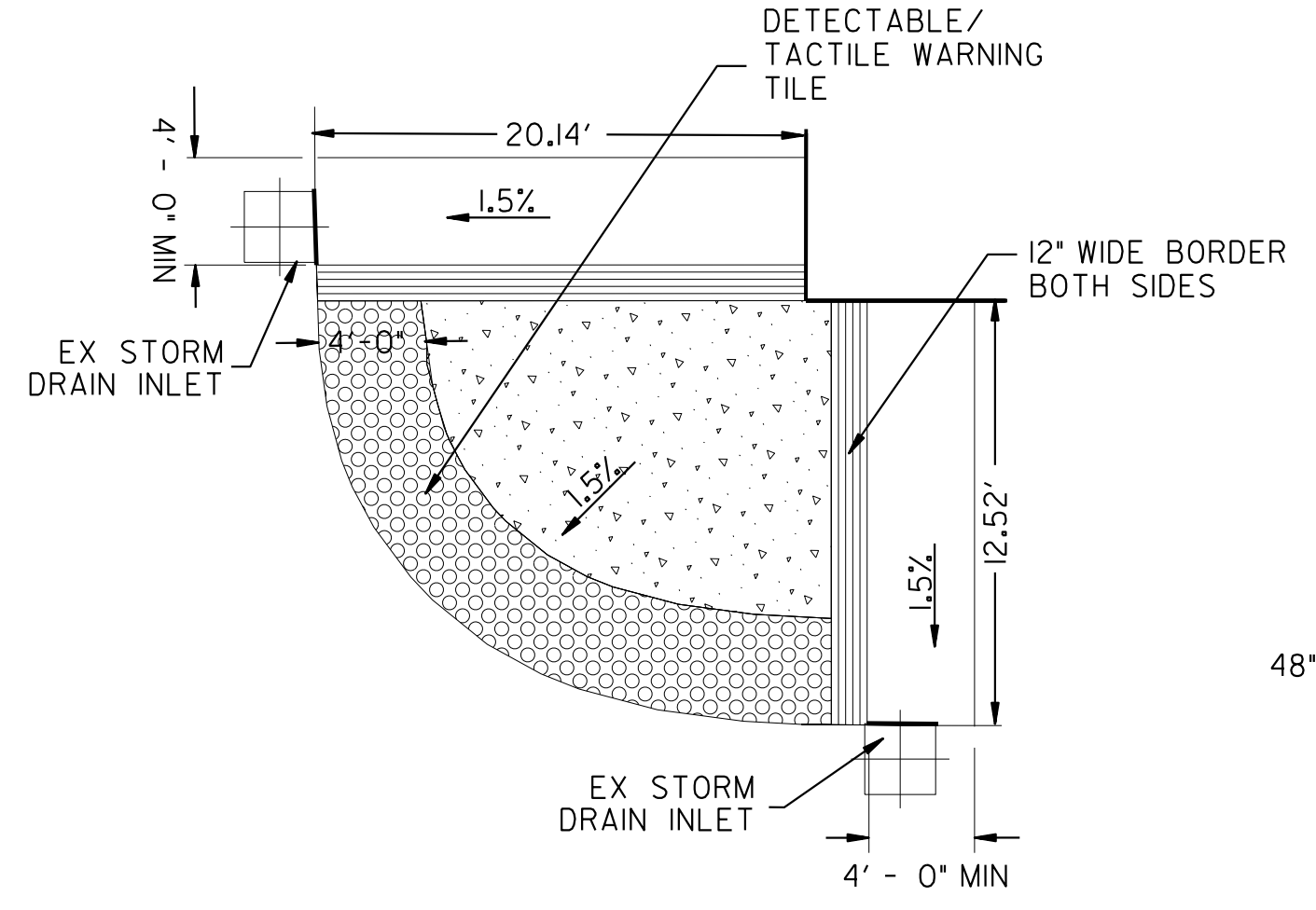




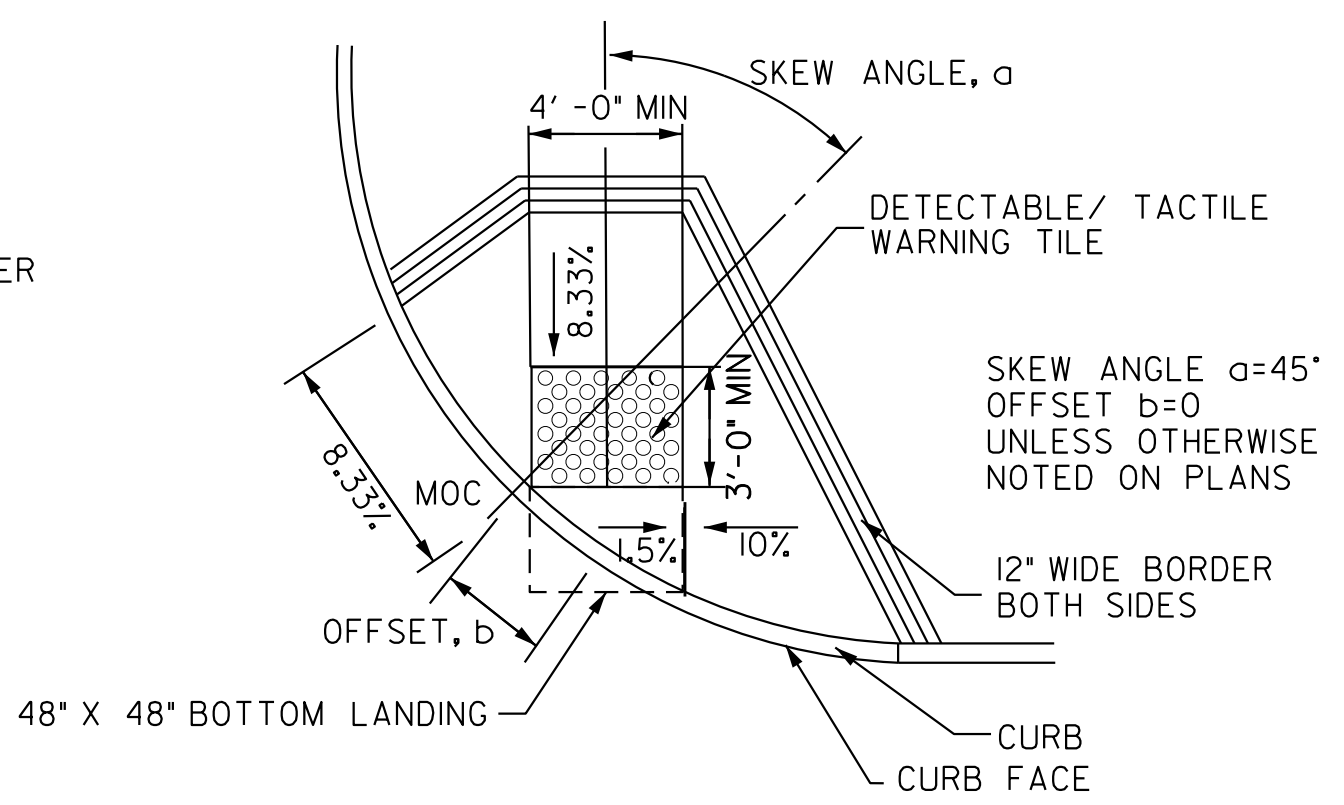
CURB RAMP #2  
TYPE A



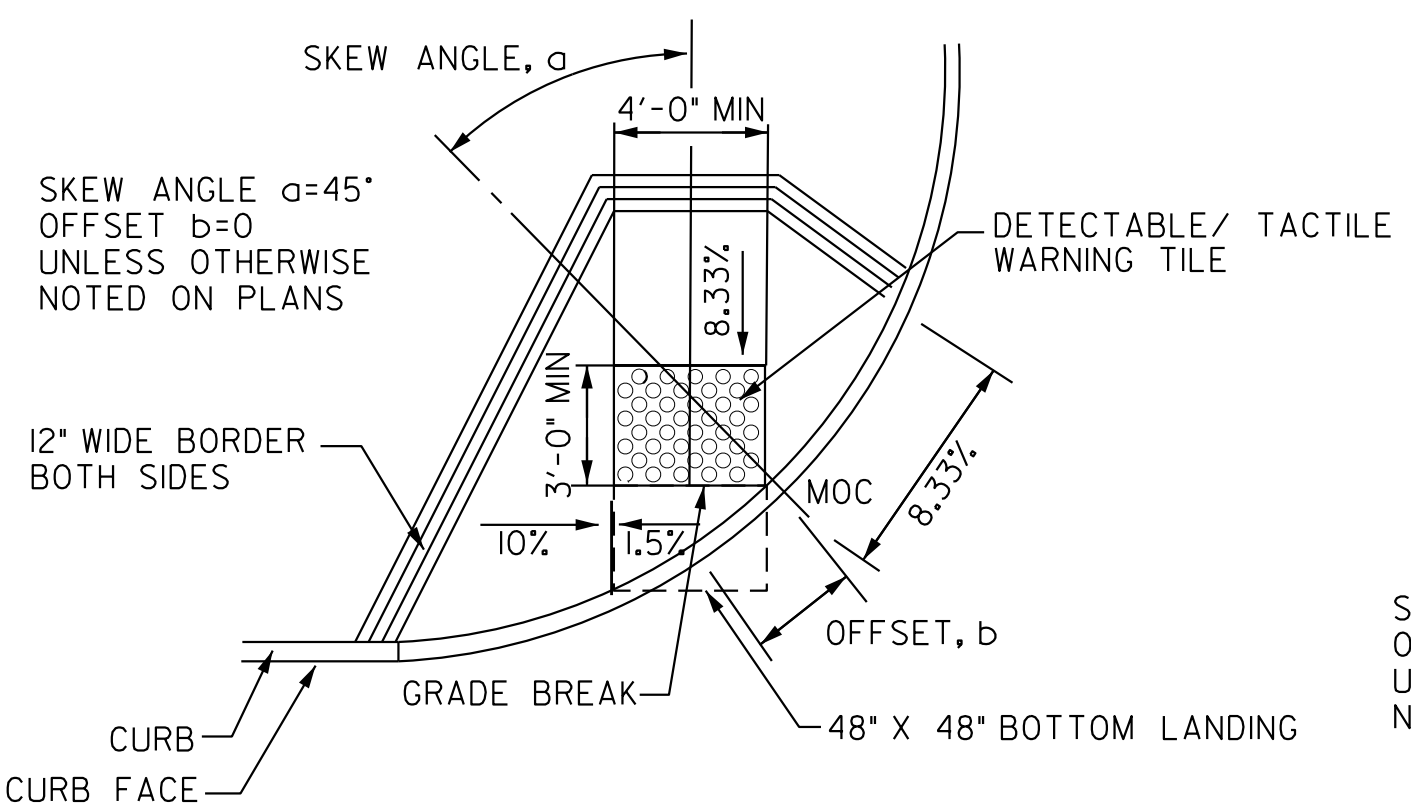
CURB RAMP #20  
TYPE A



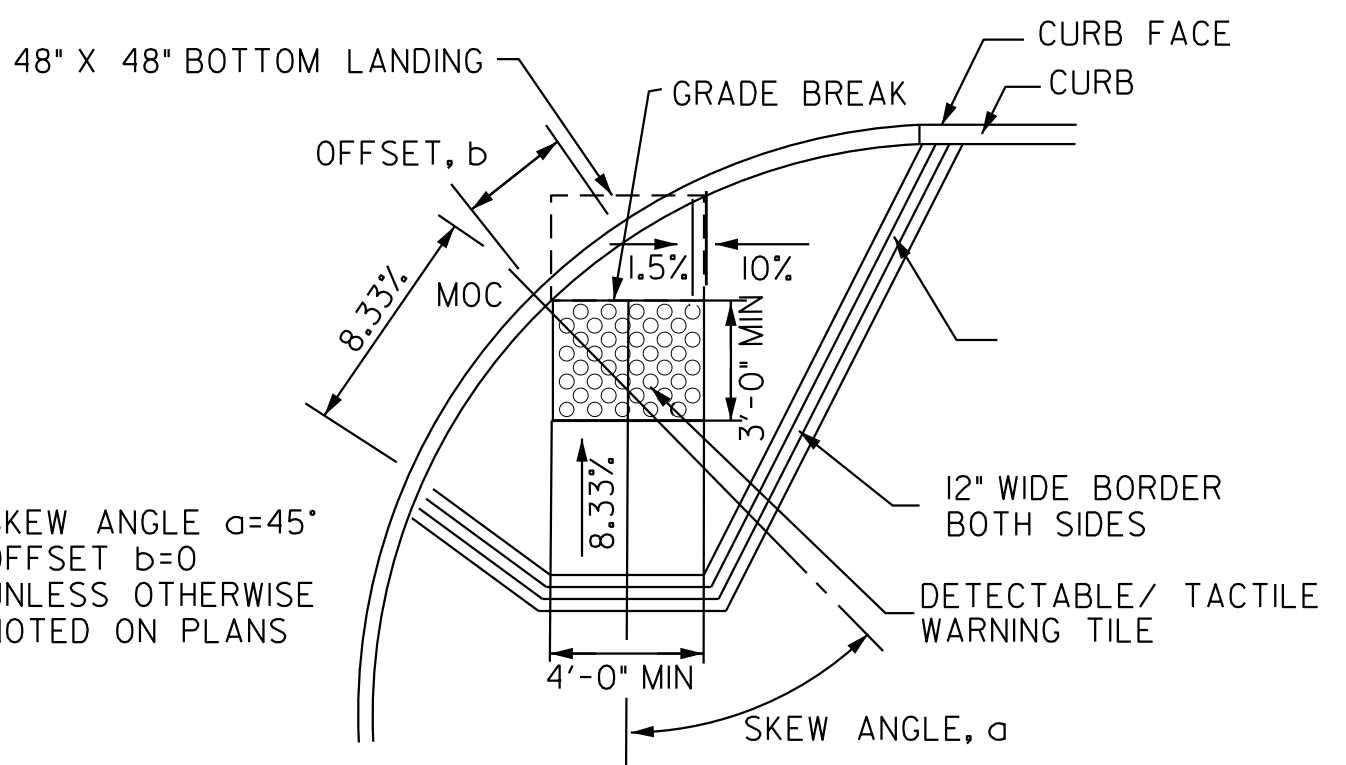
CURB RAMP #21  
CASE C BLENDED TRANSITION



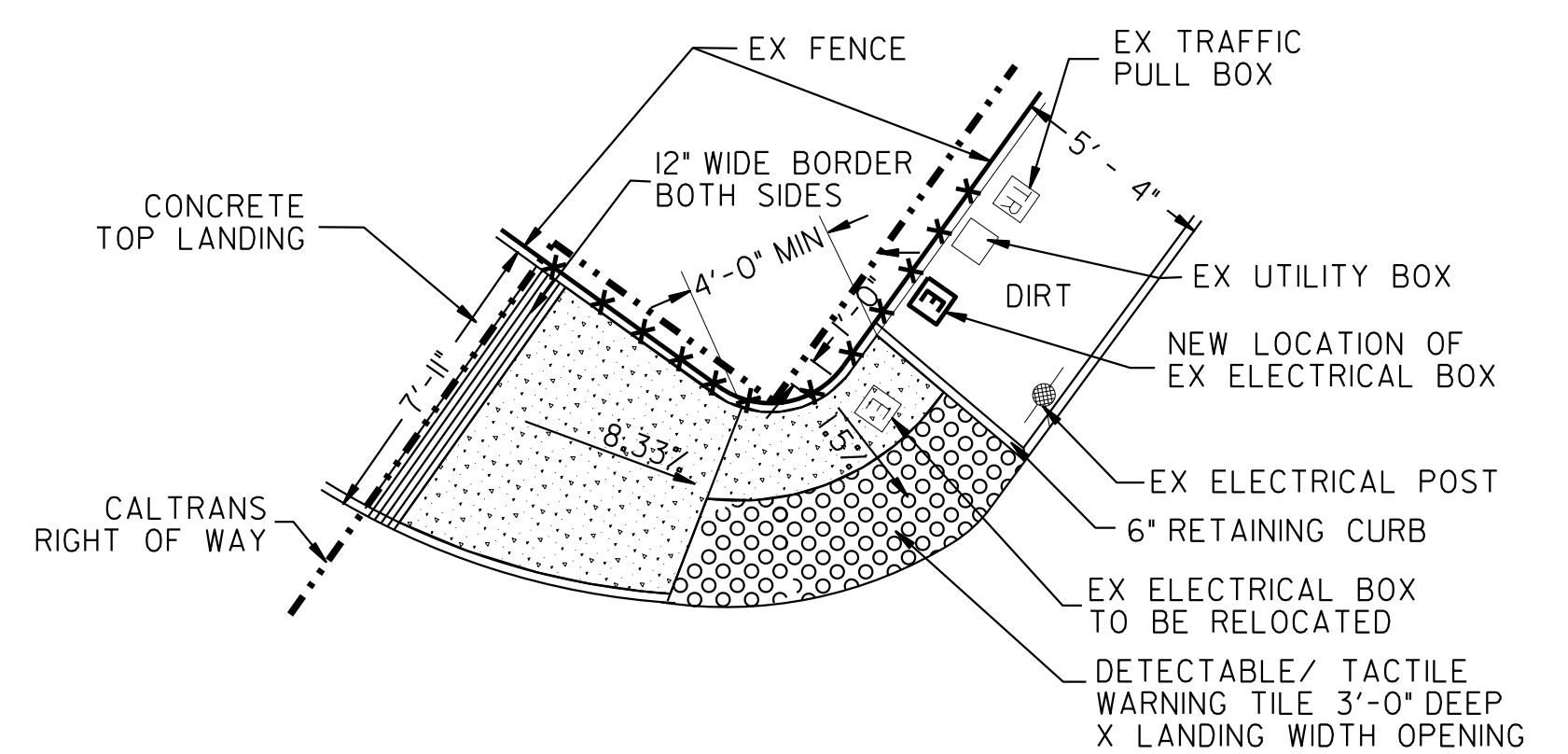
CURB RAMP #41  
DIRECTIONAL CURB RAMP



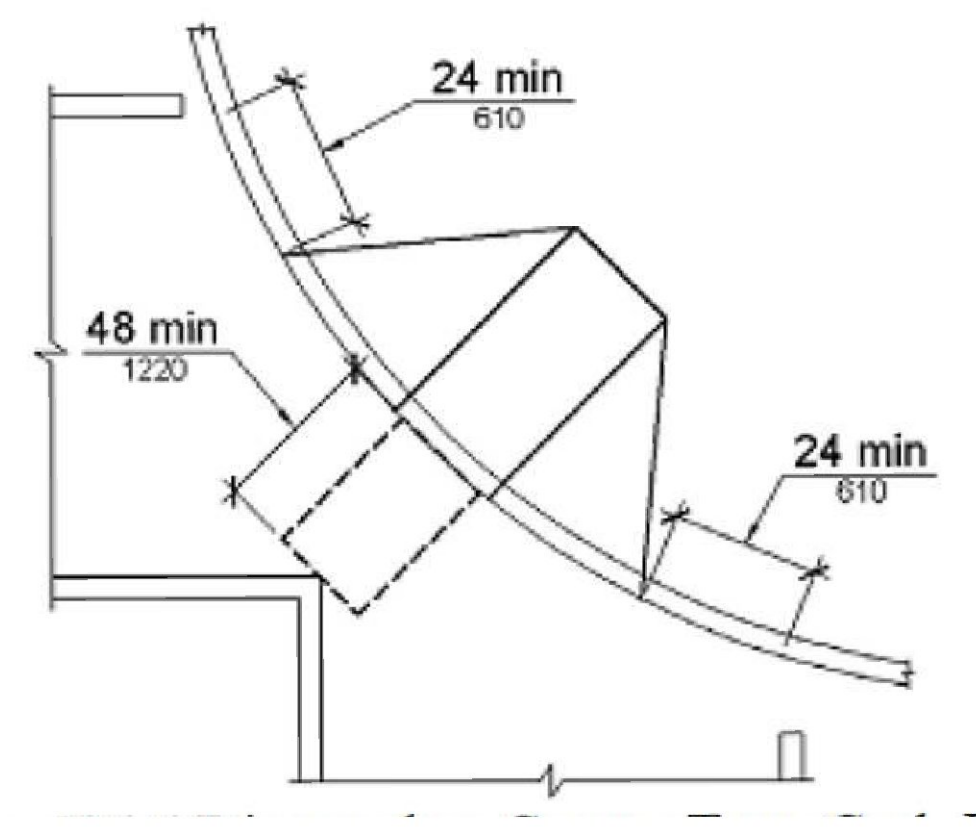
CURB RAMP #40 AND #59  
DIRECTIONAL CURB RAMP



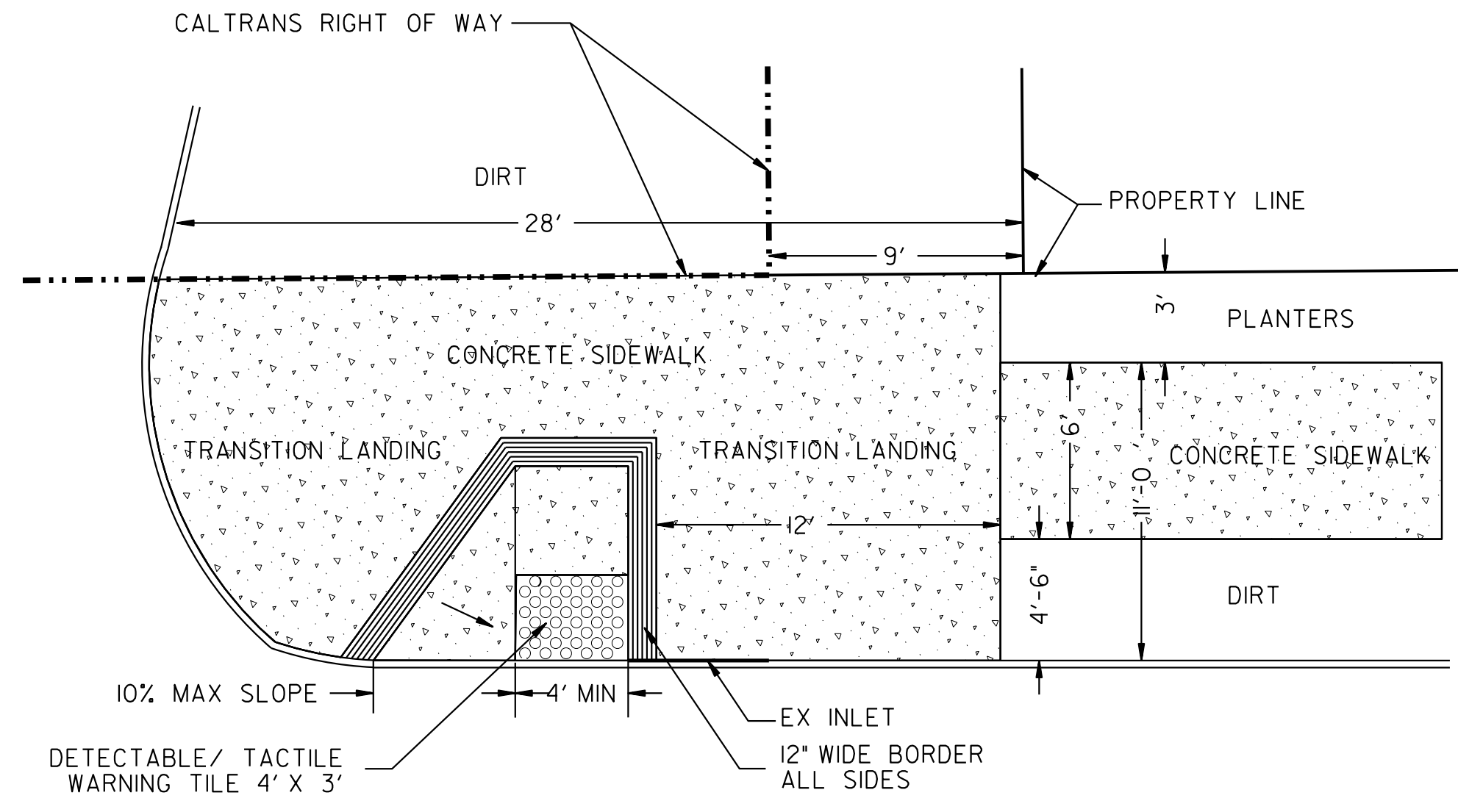
CURB RAMP #12  
DIRECTIONAL CURB RAMP



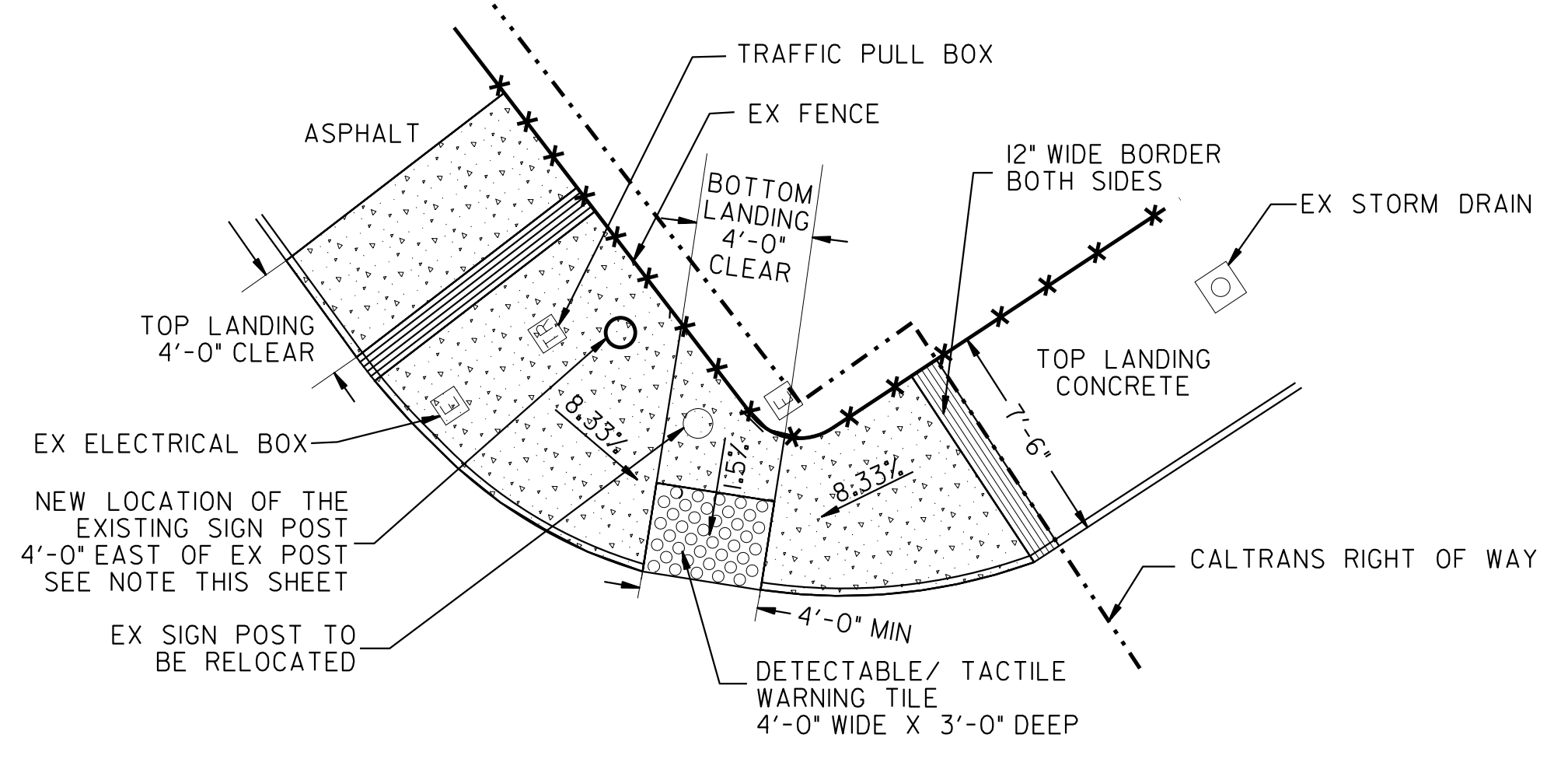
CURB RAMP #91  
TYPE CI



DIAGONAL OR CORNER TYPE  
CURB RAMPS



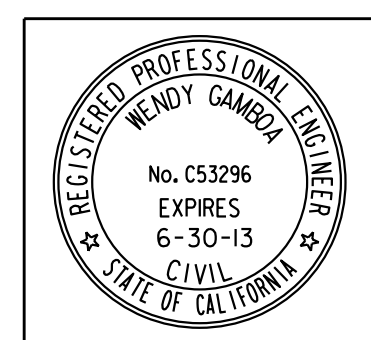
CURB RAMP #83  
HALF FLARED TYPE A



CURB RAMP #90  
TYPE CI

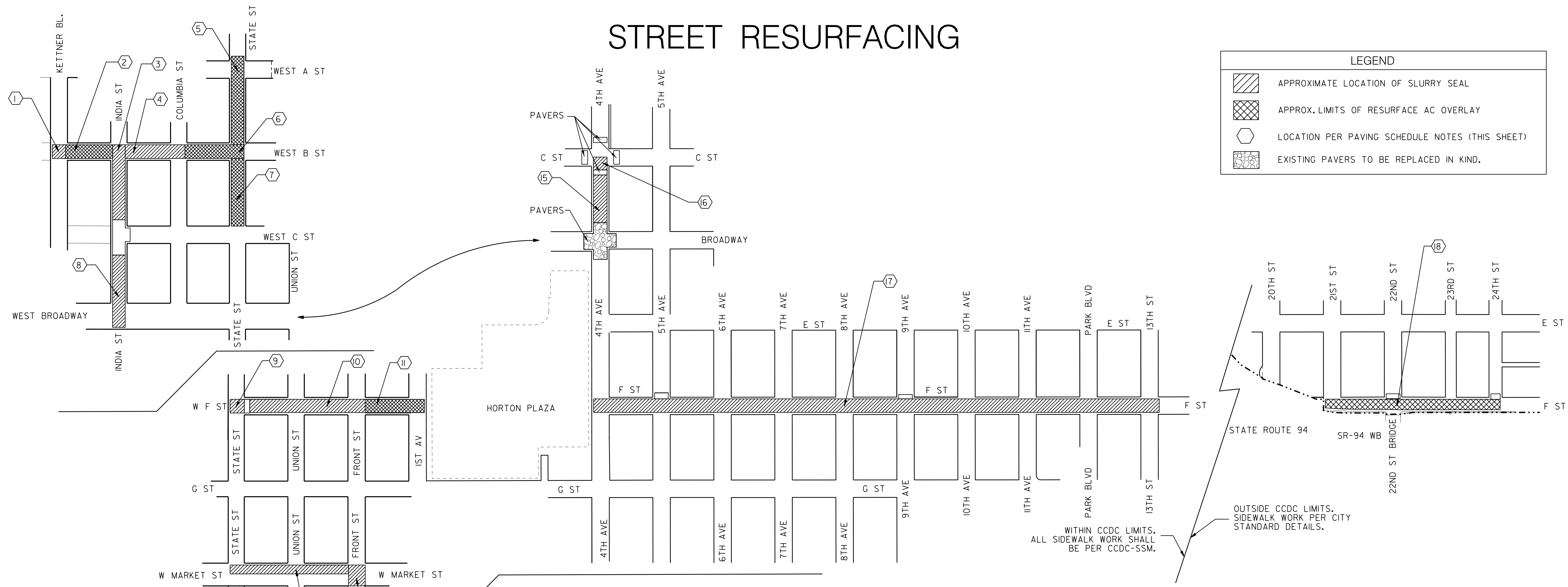
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SEWER AND WATER GROUP 957 CURB RAMP DETAILS			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 21 OF 28 SHEETS		WATER WBS B11154 SEWER WBS B11152	
APPROVED FOR CITY ENGINEER	DATE 02-13-13	DESIGNED BY JIM HAGGOUY ASSOCIATE ENGINEER	
DESCRIPTION ORIGINAL	BY AM/SS	APPROVED DATE FILMED	
CHECKED BY ALI MOHAMMADIAN PROJECT ENGINEER		SEE SHEETS CC527 COORDINATE	
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		36689-21-D	



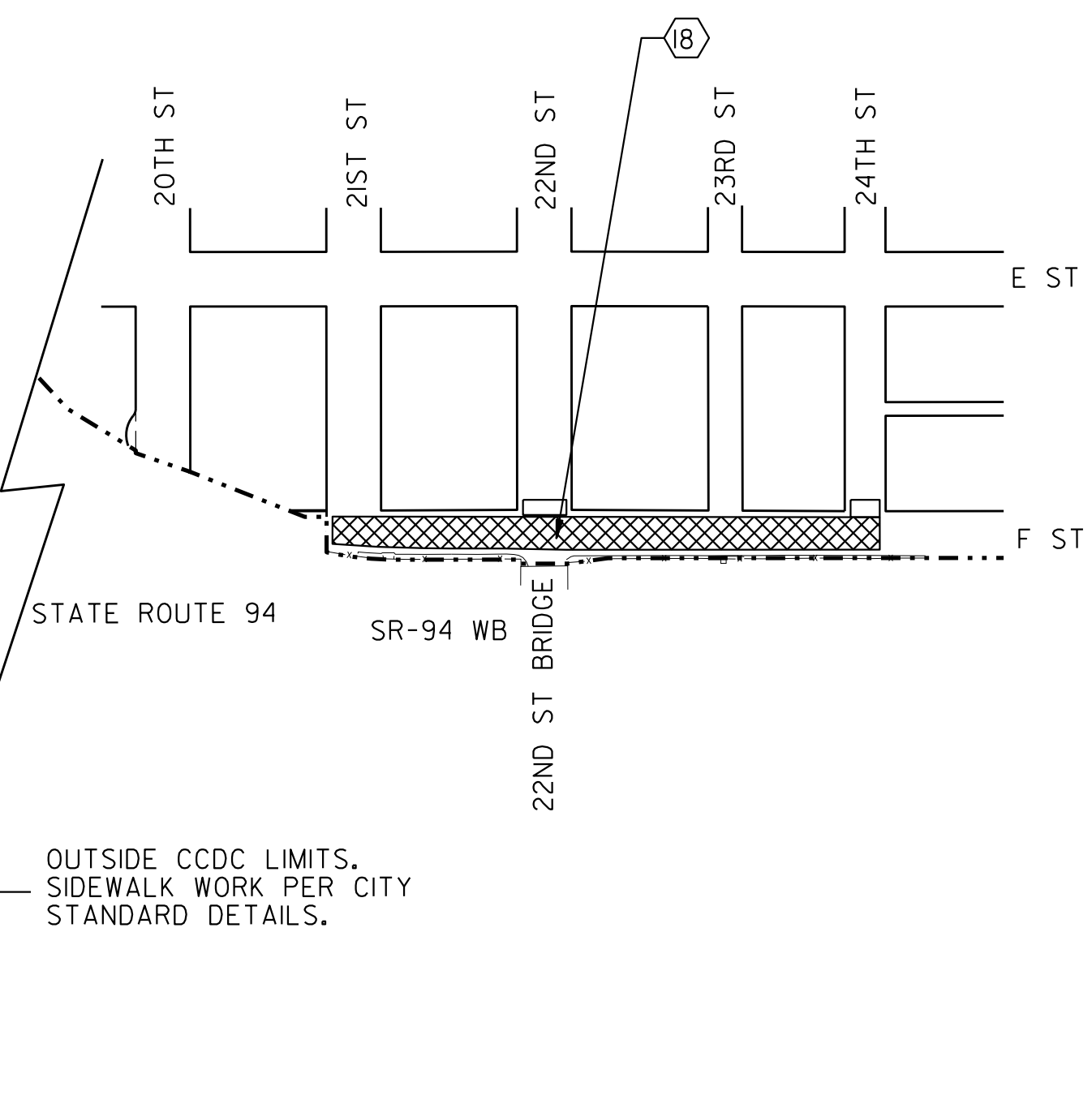
CURB RAMP DETAILS

# STREET RESURFACING



**LEGEND**

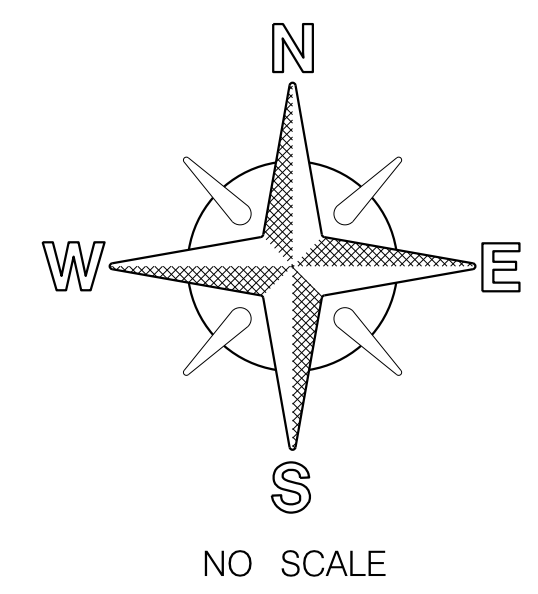
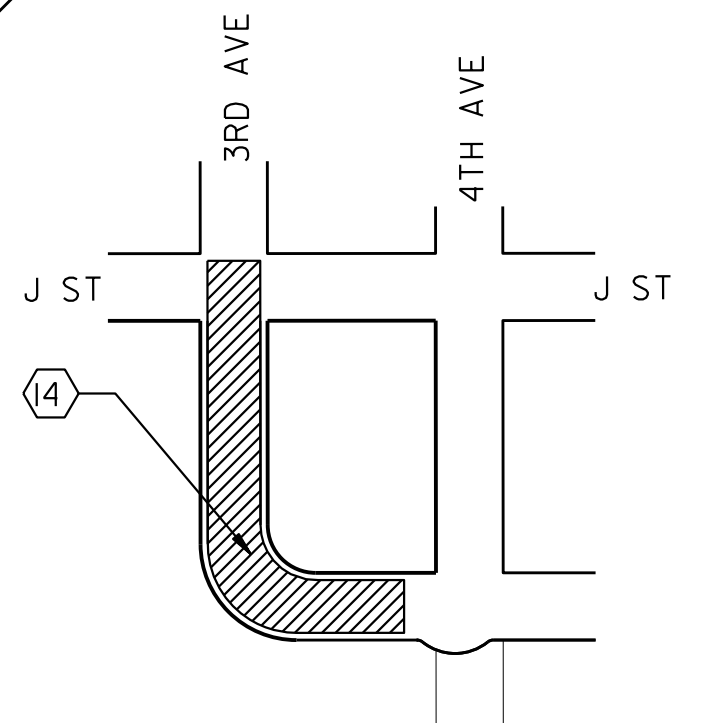
- APPROXIMATE LOCATION OF SLURRY SEAL
- APPROX. LIMITS OF RESURFACE AC OVERLAY
- LOCATION PER PAVING SCHEDULE NOTES (THIS SHEET)
- EXISTING PAVERS TO BE REPLACED IN KIND.



WITHIN CCDC LIMITS, ALL SIDEWALK WORK SHALL BE PER CCDC-SSM.  
OUTSIDE CCDC LIMITS, SIDEWALK WORK PER CITY STANDARD DETAILS.

**PAVING SCHEDULE NOTES**

NO.	LOCATION	RESTORATION REQUIRED	STATION	STATION	WIDTH	APPROX. AREA
1	KETTNER BL	SLURRY	0+61.05	1+19.99	50	2,947
2	WEST B ST	AC OVERLAY	1+19.99	3+39.41	50	10,971
3	INDIA ST	SLURRY	0+68.65	1+40	50	3,567.50
4	WEST B ST	SLURRY	1+25.15	3+51.56	50	11,320.50
5	STATE ST	AC OVERLAY	4+44.47	7+14.97	VARIES	14,200.30
6	WEST B ST	AC OVERLAY	3+51.56	6+84.82	VARIES	13,601.77
7	STATE ST	AC OVERLAY	0+55.88	3+95.47	50	16,979.50
8	INDIA ST	SLURRY	0+70.99	3+27.42	50	12,821.50
9	STATE ST & W F ST	SLURRY	0+64.32	1+15.64	50	2,566.00
10	WEST F ST	SLURRY	1+23.01	6+90	50	28,349.50
11	WEST F ST	AC OVERLAY	6+90	9+71.75	50	14,087.50
12	W MARKET ST	SLURRY	0+68.01	6+30.39	VARIES	36,593.33
13	W MARKET ST & FRONT ST	SLURRY	6+30.39	7+06.98	60	4,595.40
14	3RD AVE	SLURRY	0+50.63	6+97.90	50	32,363.50
15	4TH AVE	SLURRY	1+30.52	4+25.90	50	14,769.00
16	4TH AVE	SLURRY	4+52.42	4+89.87	40	1,872.50
17	F ST	SLURRY	0+61.84	24+97.48	VARIES	125,520.24
18	F ST	AC OVERLAY	0+71.27	8+72.12	VARIES	4,177.91
TOTAL AREA OF SLURRY SEAL						277,286 SF
TOTAL AREA OF RESURFACE AC						74,018 SF



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**SEWER AND WATER GROUP 957**  
**STREET RESURFACING**

CITY OF SAN DIEGO, CALIFORNIA  
PUBLIC WORKS-ENGINEERING DEPARTMENT  
SHEET 22 OF 28 SHEETS

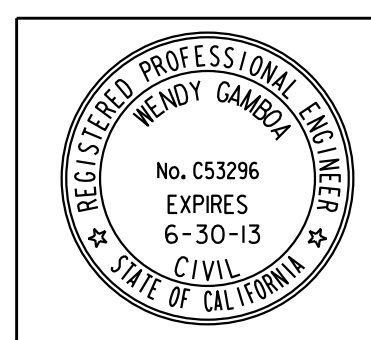
FOR CITY ENGINEER: *[Signature]* DATE: 02-13-13

PROJECT MANAGER: JIM HAGGOLYPROJECT ENGINEER: ALI MOHAMMADIAN

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	AM/SS			

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

36689-22-D



STREET RESURFACING



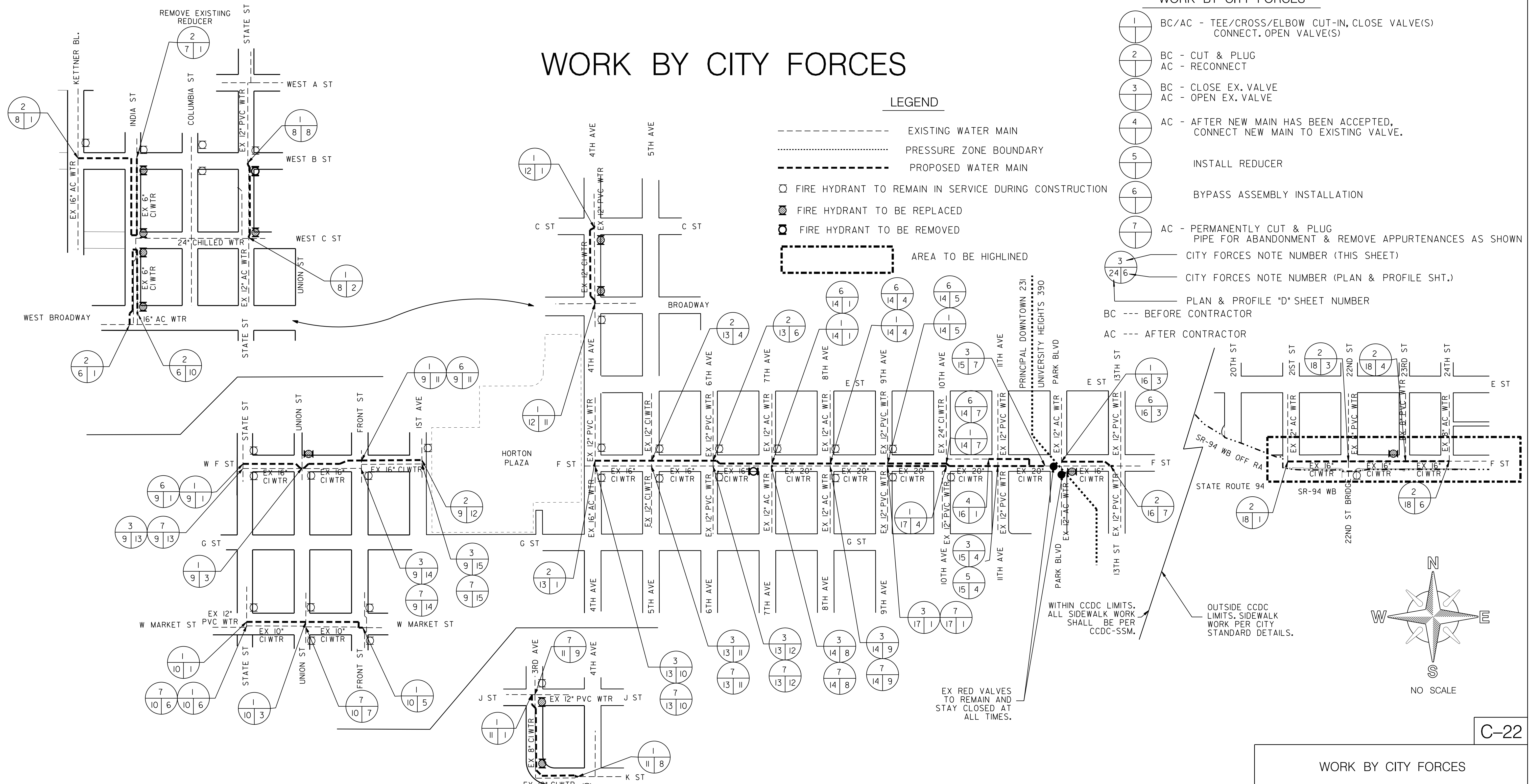
# WORK BY CITY FORCES

## LEGEND

- EXISTING WATER MAIN
- PRESSURE ZONE BOUNDARY
- PROPOSED WATER MAIN
- FIRE HYDRANT TO REMAIN IN SERVICE DURING CONSTRUCTION
- ⊗ FIRE HYDRANT TO BE REPLACED
- ⊘ FIRE HYDRANT TO BE REMOVED
- AREA TO BE HIGHLIGHTED

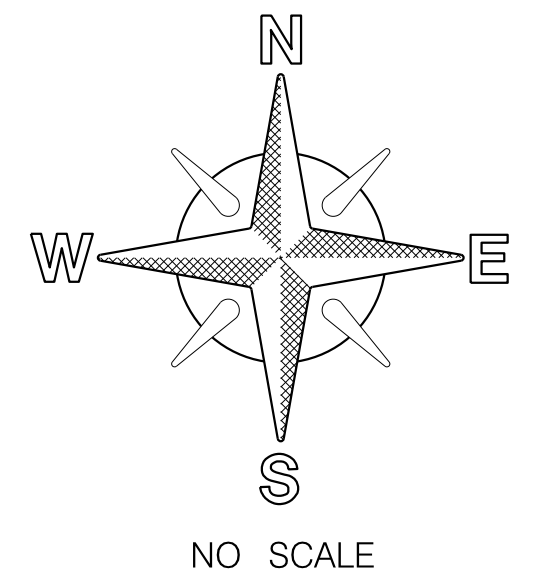
## WORK BY CITY FORCES

- 1 BC/AC - TEE/CROSS/ELBOW CUT-IN, CLOSE VALVE(S)  
CONNECT, OPEN VALVE(S)
- 2 BC - CUT & PLUG  
AC - RECONNECT
- 3 BC - CLOSE EX. VALVE  
AC - OPEN EX. VALVE
- 4 AC - AFTER NEW MAIN HAS BEEN ACCEPTED,  
CONNECT NEW MAIN TO EXISTING VALVE.
- 5 INSTALL REDUCER
- 6 BYPASS ASSEMBLY INSTALLATION
- 7 AC - PERMANENTLY CUT & PLUG  
PIPE FOR ABANDONMENT & REMOVE APPURTENANCES AS SHOWN
- 3 CITY FORCES NOTE NUMBER (THIS SHEET)
- 24/6 CITY FORCES NOTE NUMBER (PLAN & PROFILE SHT.)
- PLAN & PROFILE "D" SHEET NUMBER
- BC --- BEFORE CONTRACTOR
- AC --- AFTER CONTRACTOR



WITHIN CCDC LIMITS,  
ALL SIDEWALK WORK  
SHALL BE PER  
CCDC-SSM.

OUTSIDE CCDC  
LIMITS, SIDEWALK  
WORK PER CITY  
STANDARD DETAILS.



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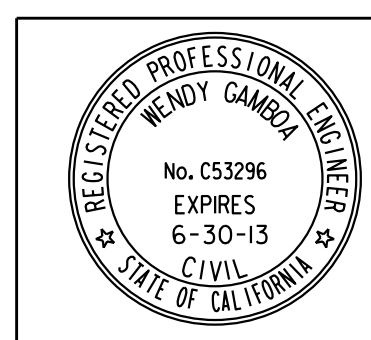
### CONTRACTOR FURNISHED MATERIALS FOR CITY FORCES WORK

SHT	CROSS		TEE		REDUCER		12" BV	12" ELBOW	STUB OUT											
	20" X 24"	20" X 12"	16" X 12"	12" X 12"	16" X 16"	12" X 12"				24" X 12"	20" X 16"	16" X 12"	12" X 10"							
8							3													
9							2		70'											
10							10		20' 30'											
12							2													
14	1	2	1				6	2	6	2	1	1	20'	40'	80'					
15																				
16							1	1												
17							2								20'	5'				
TOTAL	1	2	2	1	2	5	1	3	2	1	26	8	6	2	3	1	20'	210'	50'	5'

NOTE:  
CITY FORCES TO INSTALL WATER METERS  
AS SHOWN ON DETAILS IN SHEETS 25 & 26.

### WORK BY CITY FORCES SEWER AND WATER GROUP 957

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 23 OF 28 SHEETS				WATER WBS B1154
FOR CITY ENGINEER				SEWER WBS B1152
DATE 02-13-13		PROJECT MANAGER		JIM HAGHOUY
DESCRIPTION ORIGINAL	BY AM/SS	APPROVED	DATE	CHECKED BY ALI MOHAMMADIAN
				PROJECT ENGINEER
				SEE SHEETS
				CCS27 COORDINATE
				SEE SHEETS
				CCS83 COORDINATE
CONTRACTOR	DATE STARTED	INSPECTOR	DATE COMPLETED	36689-23-D



## THRUST BLOCK AND ANCHOR TABLE FOR DESIGN PRESSURE

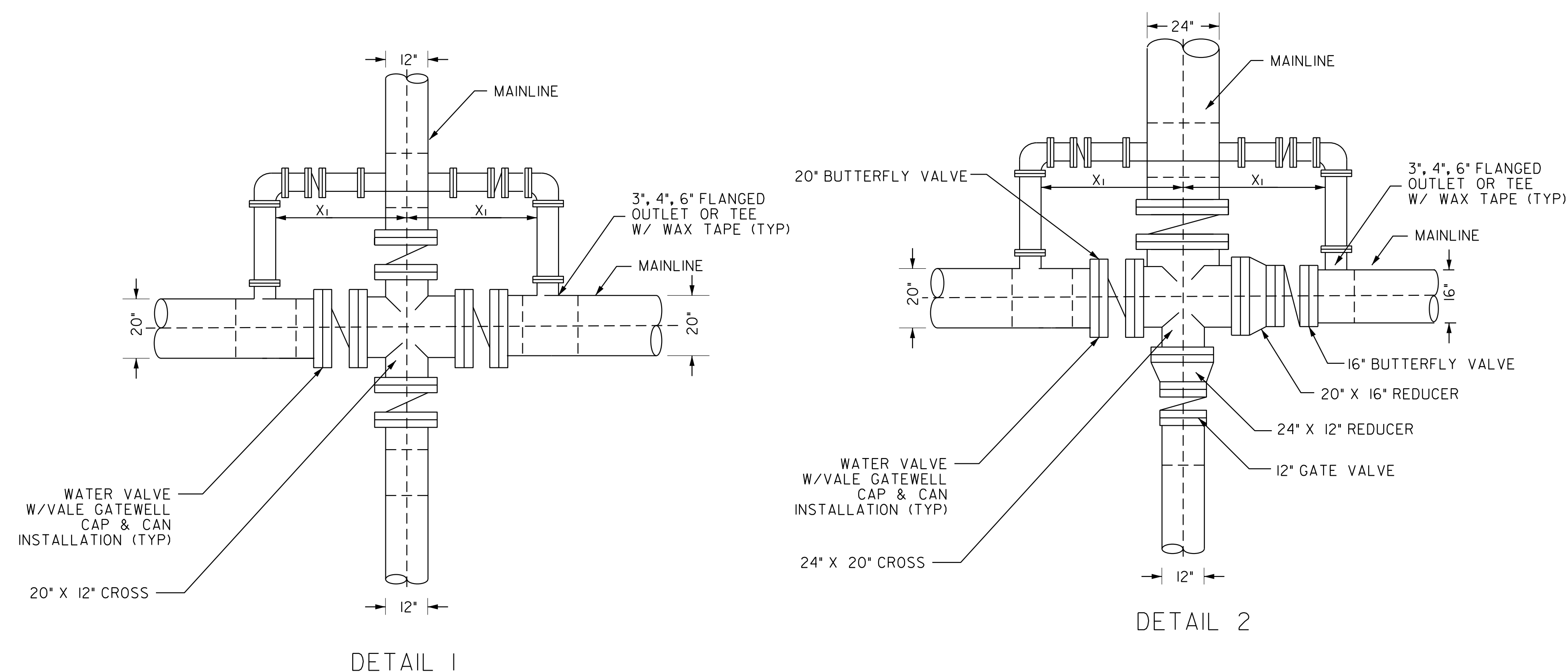
THRUST TABLE FOR 16" AND 20" WATER MAINS FOR DESIGN PRESSURE 305						
TYPE/ DIAM. OF PIPE	TYPE OF BLOCK	TYPE OF APPURTENANCE	DESIGN PRESSURE	TOTAL THRUST (lb)	ASSUMED SOIL CAPACITY	MINIMUM BEARING AREA (sq.ft.), SEE NOTE 3 BELOW OR VOLUME OF BLOCK (cu.ft.)
PVC / 16"	THRUST	45° BEND	305 lb/sq.in.	50,741 lb	1500 lb/sq.ft.	51 lb/sq.ft.
PVC / 16"	THRUST	TEE	305 lb/sq.in.	72,488 lb	1500 lb/sq.ft.	73 lb/sq.ft.
PVC / 16"	THRUST	CROSS	305 lb/sq.in.	72,488 lb	1500 lb/sq.ft.	73 lb/sq.ft.
PVC / 20"	THRUST	45° BEND	305 lb/sq.in.	78,194 lb	1500 lb/sq.ft.	78 lb/sq.ft.
PVC / 20"	THRUST	TEE	305 lb/sq.in.	111,706 lb	1500 lb/sq.ft.	112 lb/sq.ft.
PVC / 20"	THRUST	CROSS	305 lb/sq.in.	111,706 lb	1500 lb/sq.ft.	112 lb/sq.ft.

THRUST/ANCHOR TABLE FOR 16" AND 20" WATER MAINS FOR DESIGN PRESSURE 235						
TYPE/ DIAM. OF PIPE	TYPE OF BLOCK	TYPE OF APPURTENANCE	DESIGN PRESSURE	TOTAL THRUST (lb)	ASSUMED SOIL CAPACITY	MINIMUM BEARING AREA (sq.ft.), SEE NOTE 3 BELOW OR VOLUME OF BLOCK (cu.ft.)
PVC / 16"	THRUST	TEE	235 lb/sq.in.	55,881 lb	1500 lb/sq.ft.	56 sq.ft.
PVC / 16"	THRUST	45° HORIZONTAL BEND	235 lb/sq.in.	42,768 lb	1500 lb/sq.ft.	43 sq.ft.
PVC / 16"	THRUST	ANCHOR	235 lb/sq.in.	10,953 lb	N/A	117 cu.ft.
PVC / 20"	THRUST	45° HORIZONTAL BEND	235 lb/sq.in.	65,908 lb	1500 lb/sq.ft.	66 sq.ft.
PVC / 20"	THRUST	CROSS	235 lb/sq.in.	55,881 lb	1500 lb/sq.ft.	56 sq.ft.

• The specific weight of concrete is 140 lb/cu.ft.  
Safety Factor = 1.5

**NOTES:**

1. REFER TO SPECIFICATIONS SECTION 306-I.2.14 FOR ADDITIONAL REQUIREMENTS.
2. FOR ESTIMATING THE QUANTITY FOR THRUST BLOCKS, THE DEPTH OF THE THRUST BLOCKS SHALL BE HALF OF THE TRENCH WIDTH PLUS 12" EMBEDMENT.



MAIN SIZE	BYPASS SIZE
16" TRANSMISSION	3"
> 16" AND < 36"	4"
> 36"	6"

- NOTE:**
1. BYPASS SHALL BE SAME CLASS AS MAINLINE PIPE.
  2. THE VALVE SHALL BE THE SAME AS THE BYPASS PIPE.
  3. SEE THE APPROVED WORKING DRAWINGS FOR X<sub>1</sub>.

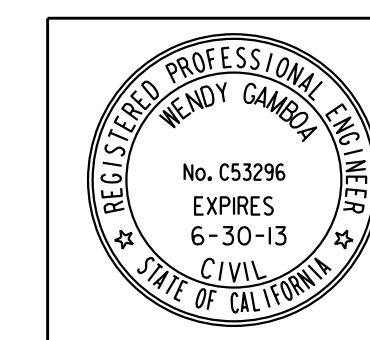
CROSS MAINLINE BYPASS

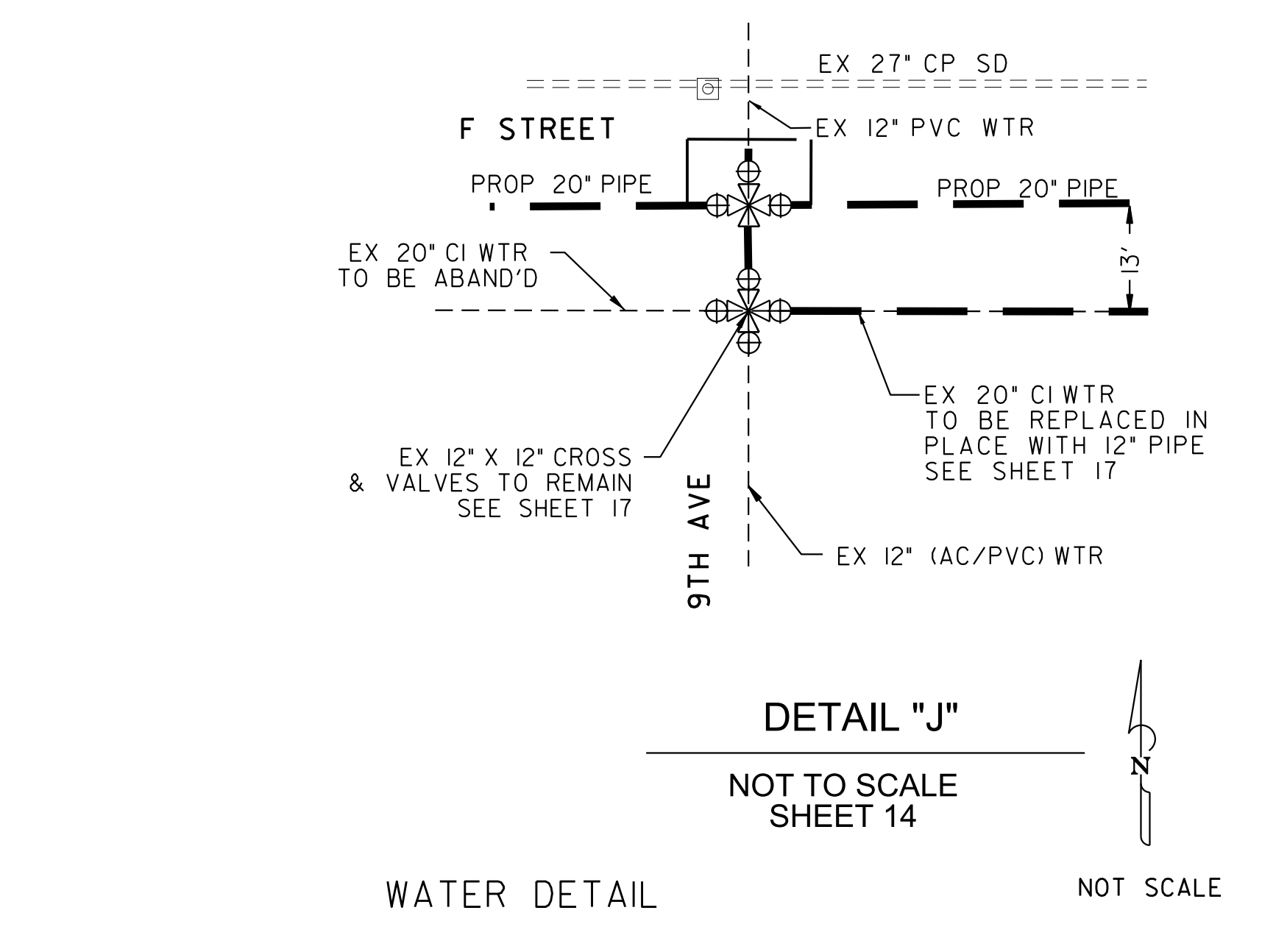
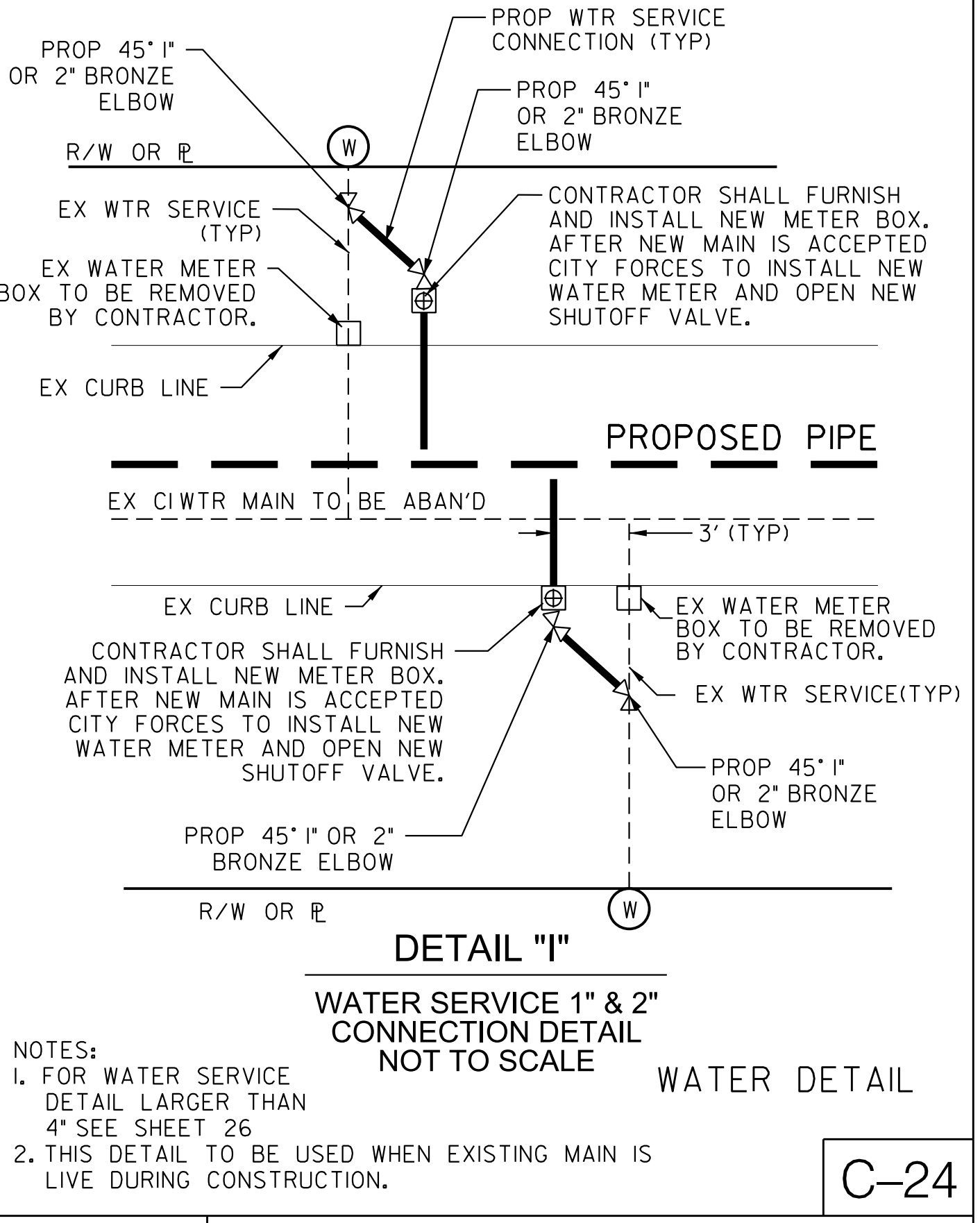
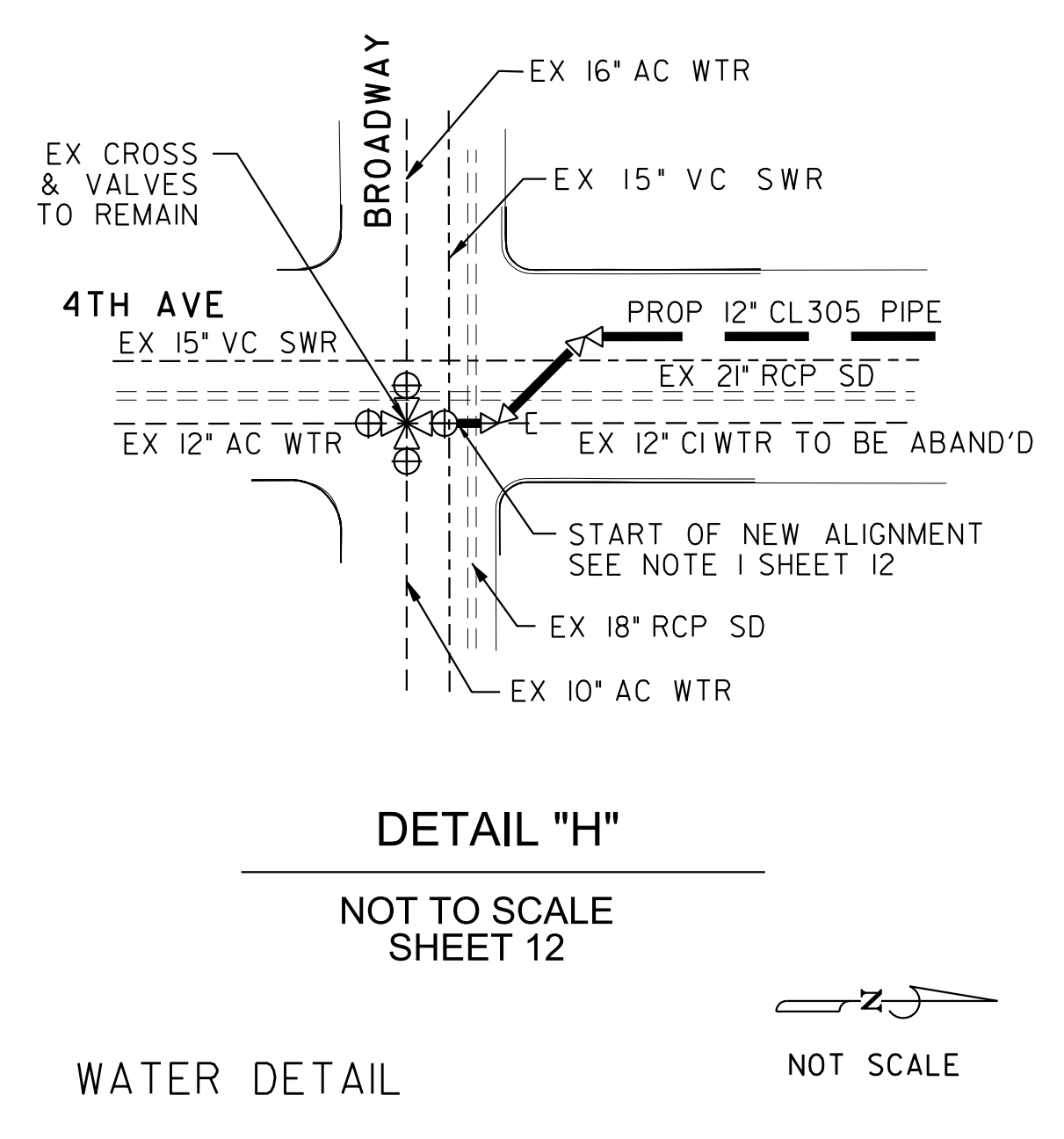
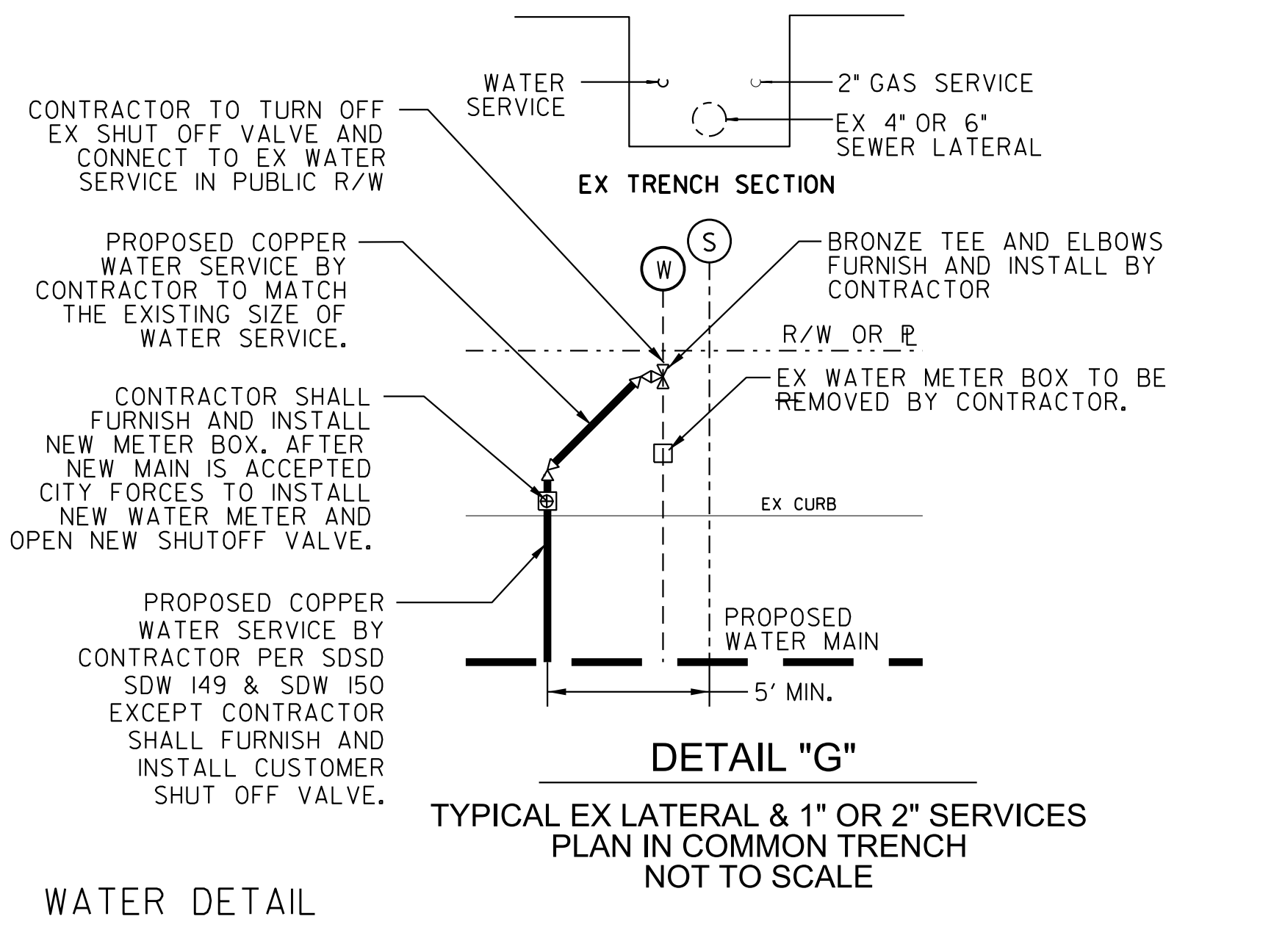
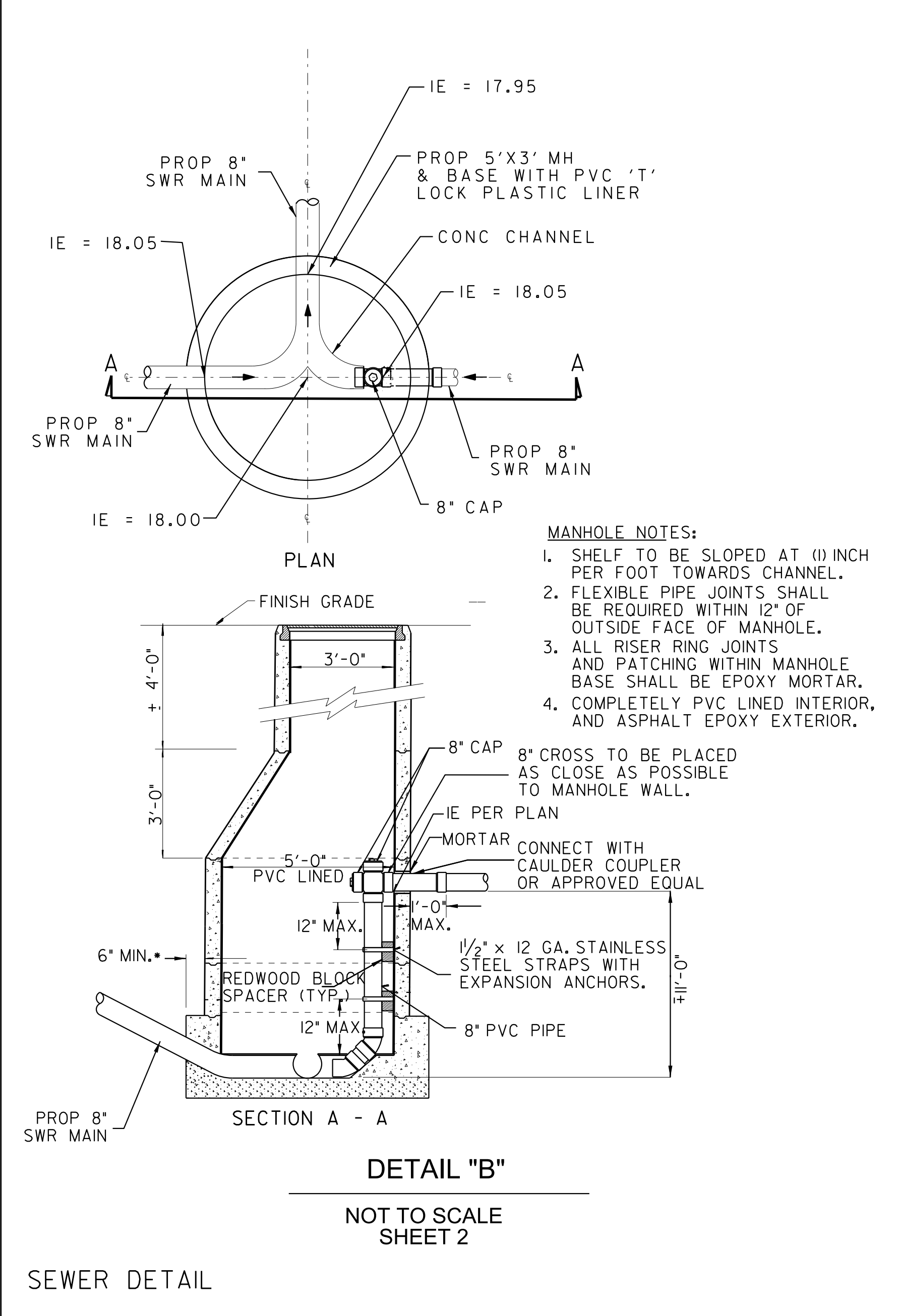
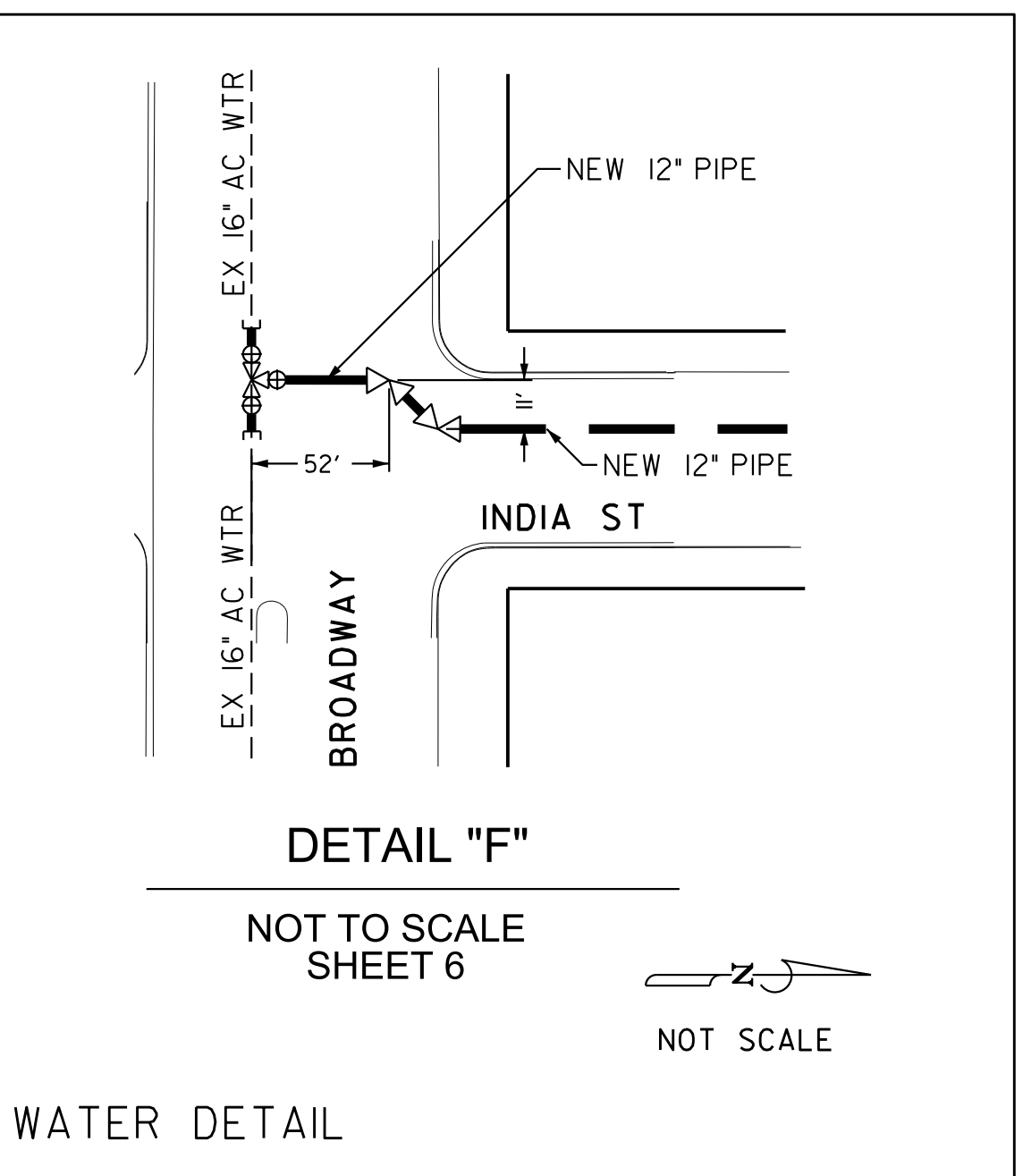
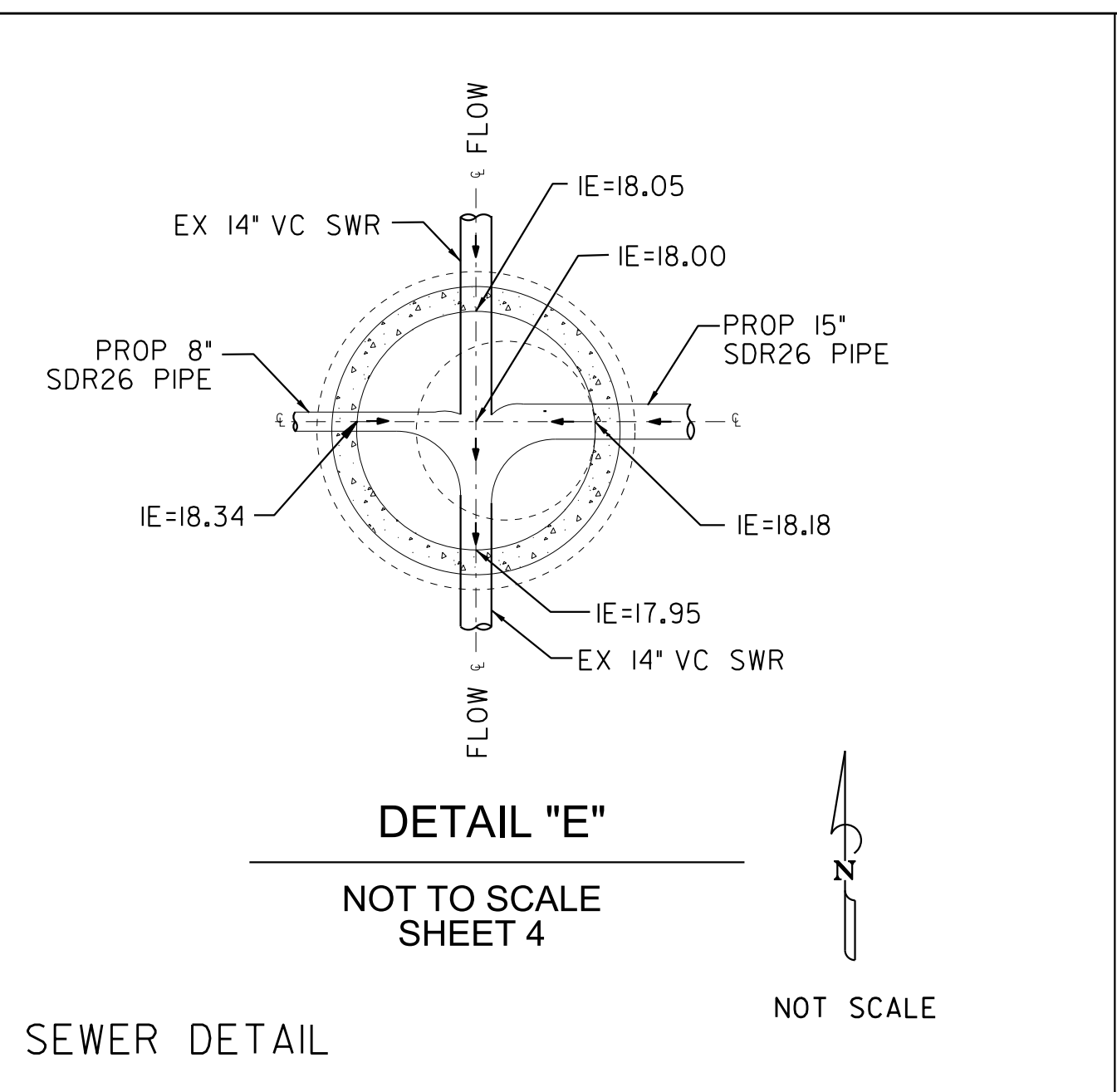
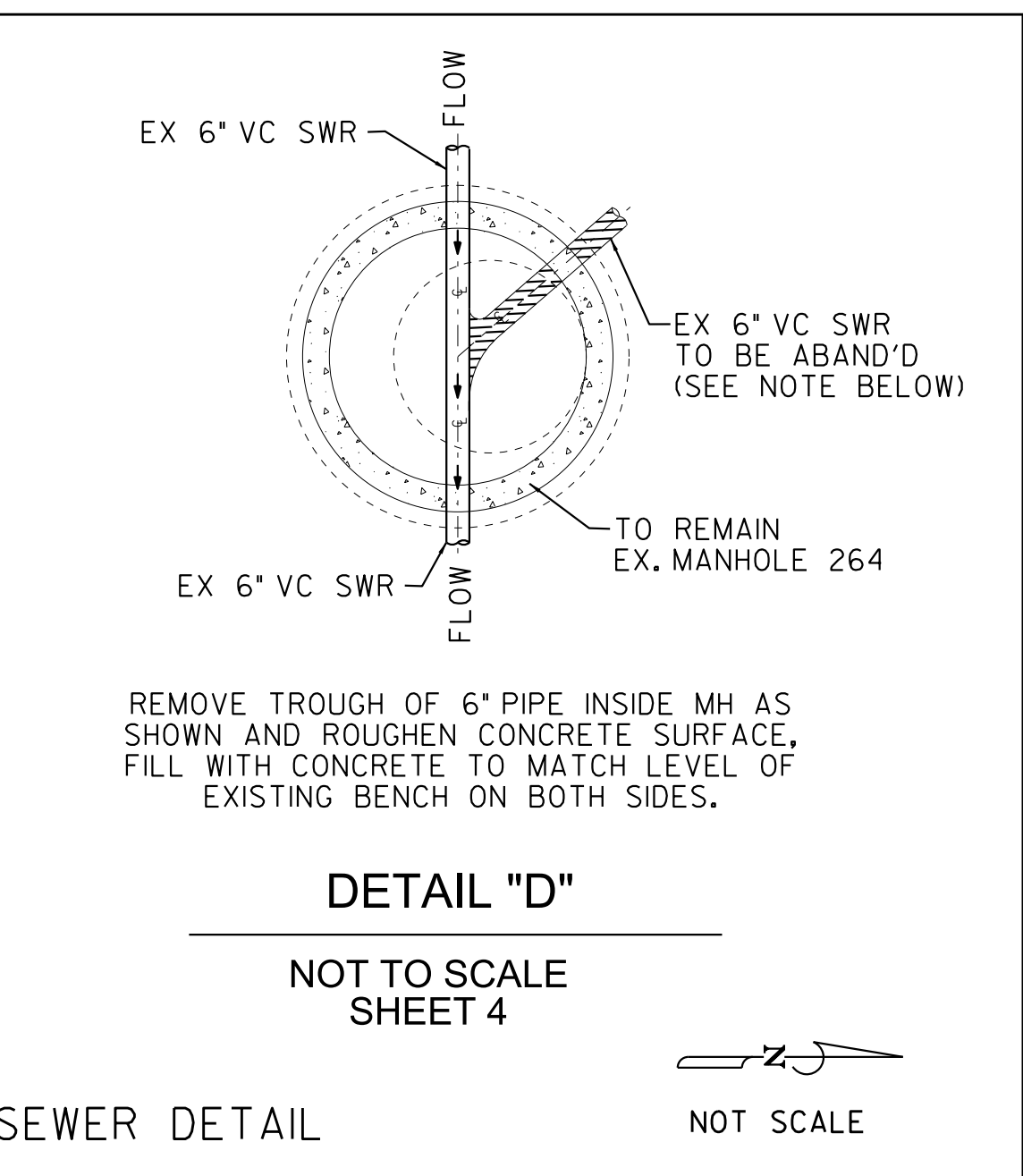
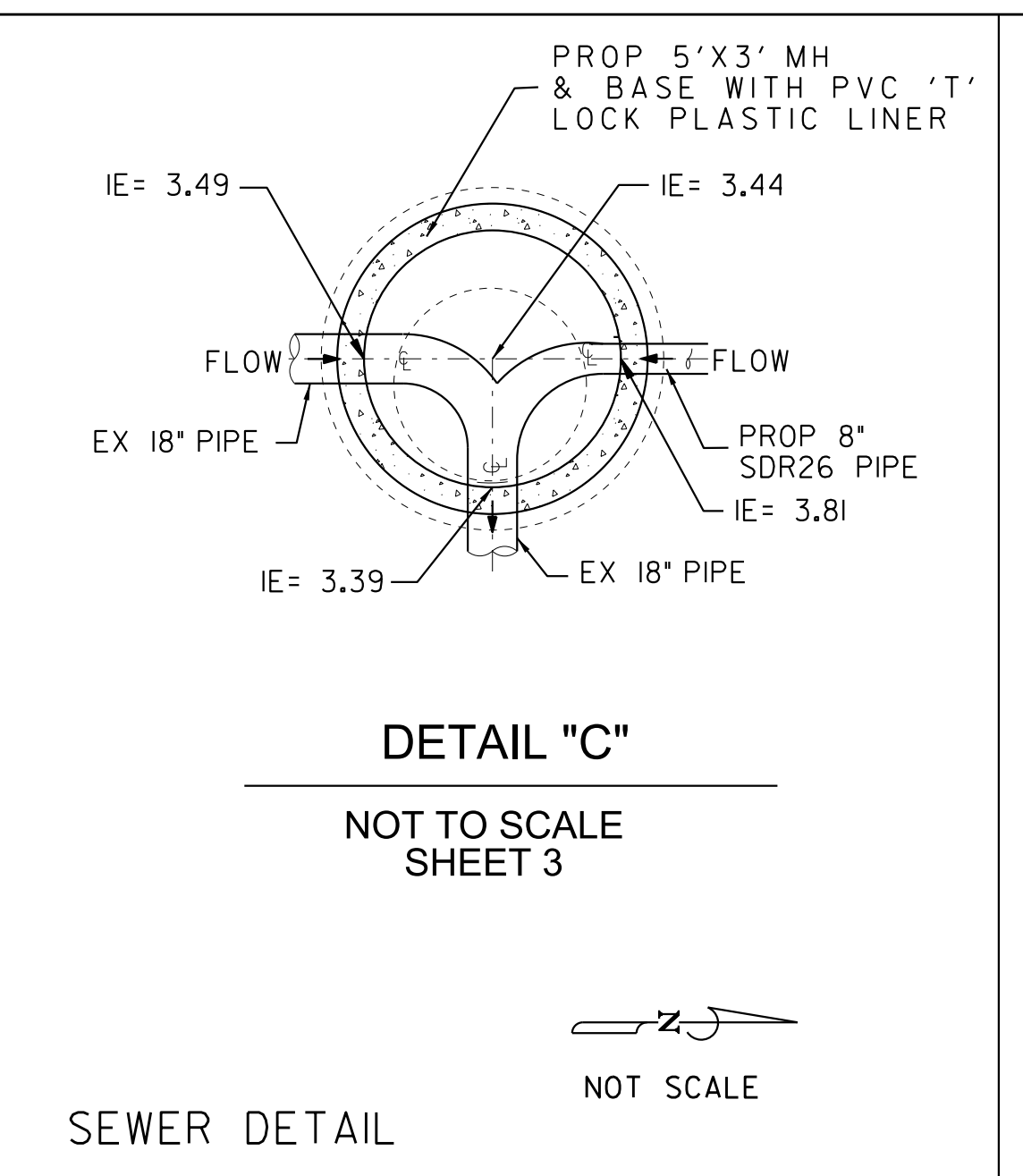
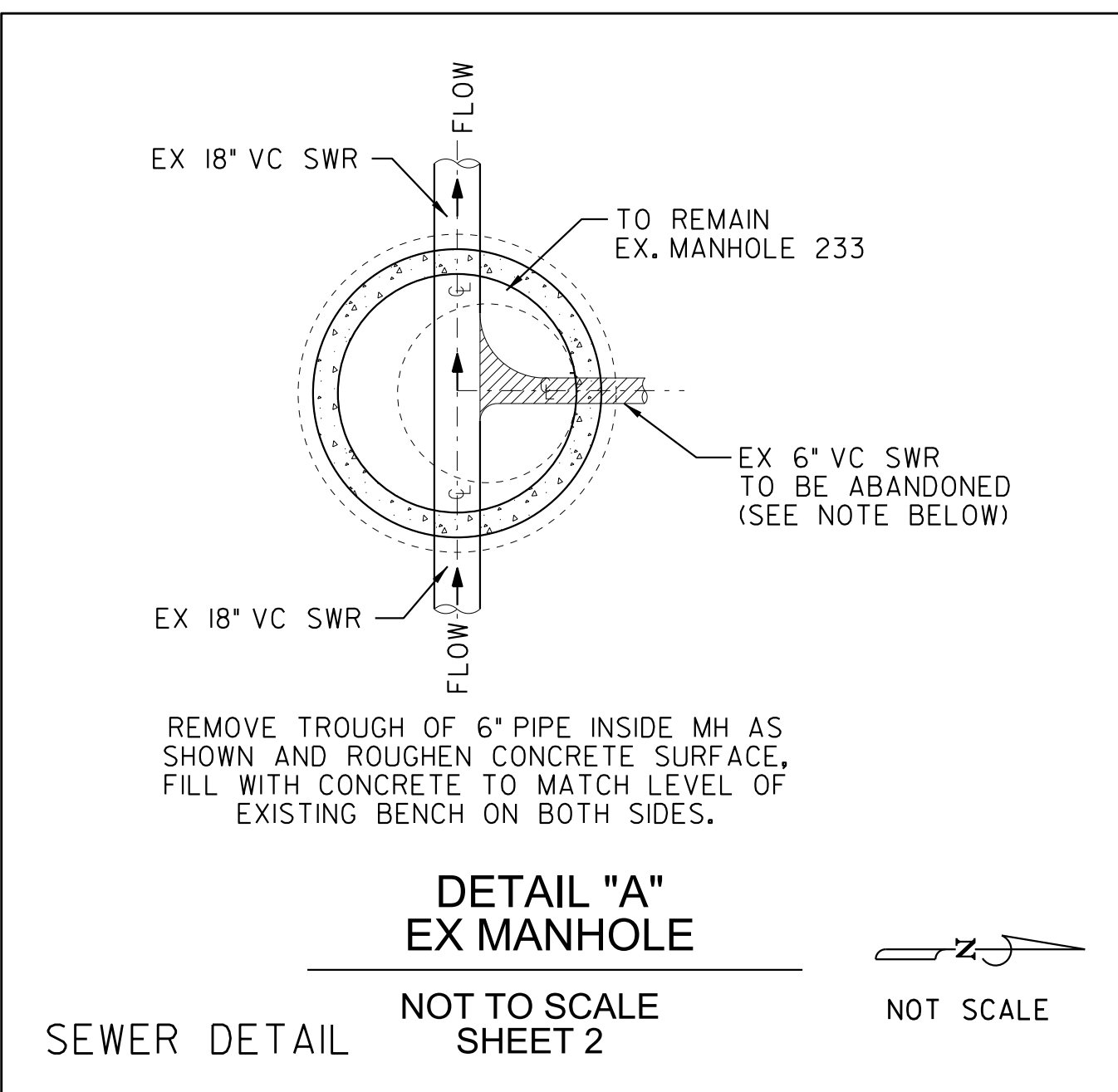
C-23

SEWER AND WATER GROUP 957

THRUST BLOCK & ANCHOR TABLE / CROSS MAINLINE BYPASS DETAILS

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 24 OF 28 SHEETS		WATER WBS B11154 SEWER WBS B11152
FOR CITY ENGINEER <i>[Signature]</i>	DATE 02-13-13	PROJECT MANAGER JIM HAGGOUY
DESCRIPTION ORIGINAL	BY AM/SS	PROJECT ENGINEER ALI MOHAMMADIAN
	APPROVED	SEE SHEETS CCS27 COORDINATE
	DATE	SEE SHEETS CCS83 COORDINATE
	FILMED	
CONTRACTOR	DATE STARTED	36689-24-D
INSPECTOR	DATE COMPLETED	

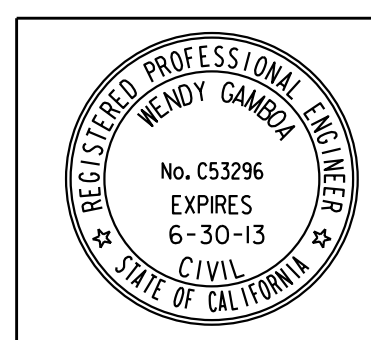




**SEWER AND WATER GROUP 957**  
SEWER AND WATER MISC DETAILS

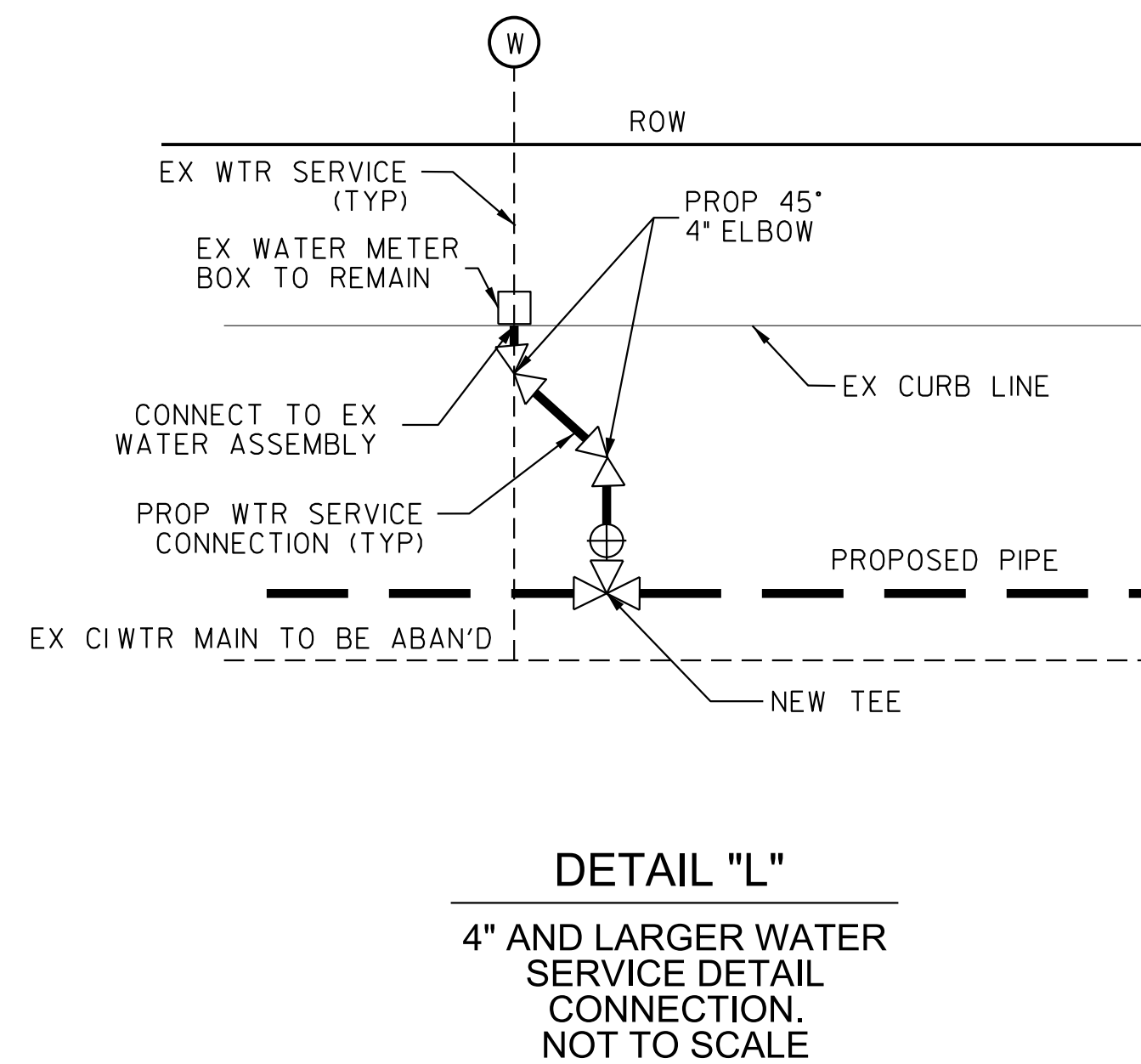
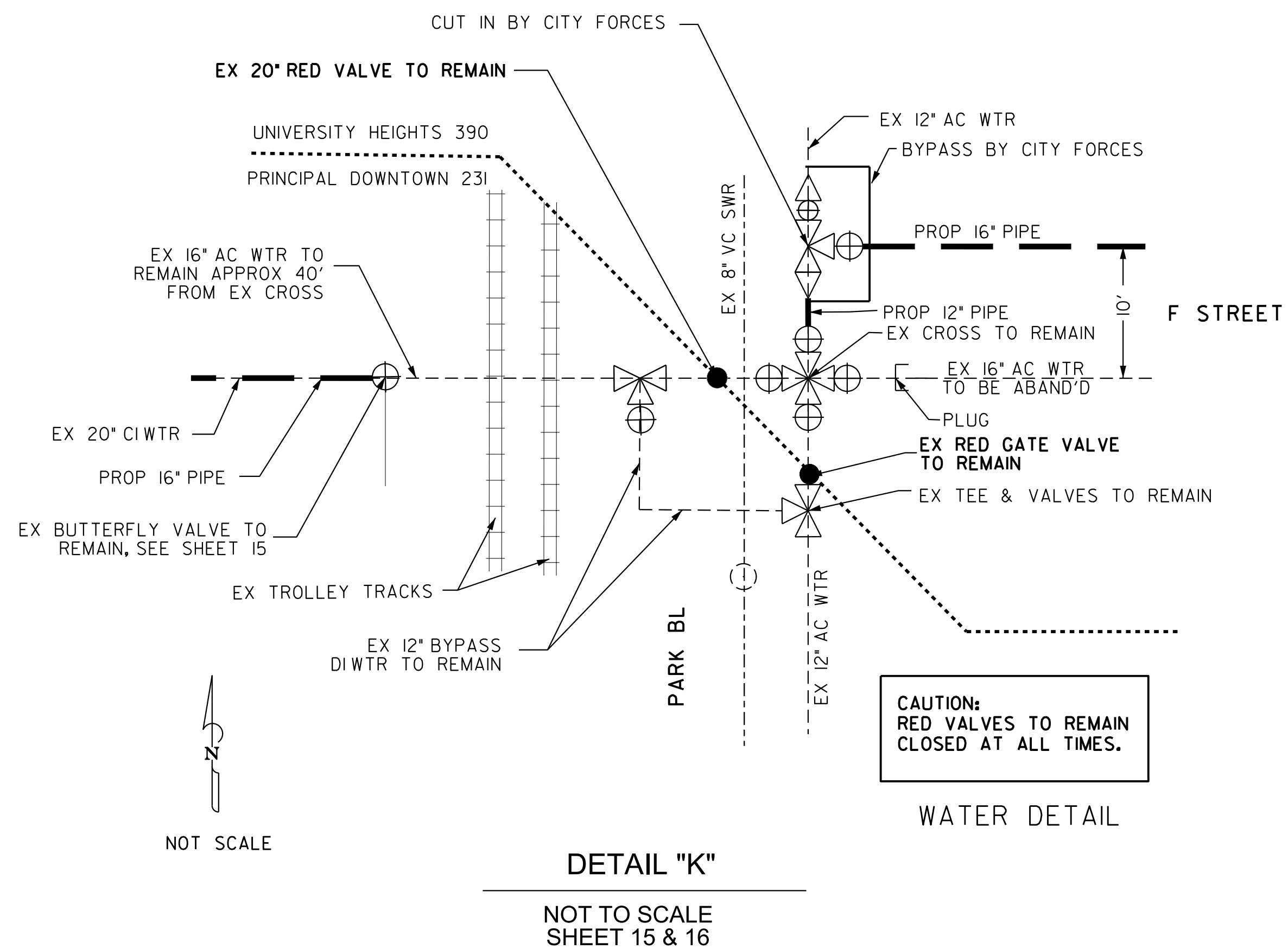
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 25 OF 28 SHEETS		WATER WBS B11154 SEWER WBS B11152
FOR CITY ENGINEER	DATE 02-13-13	PROJECT MANAGER
DESCRIPTION	BY	APPROVED
ORIGINAL	AM/SS	
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED

36689-25-D

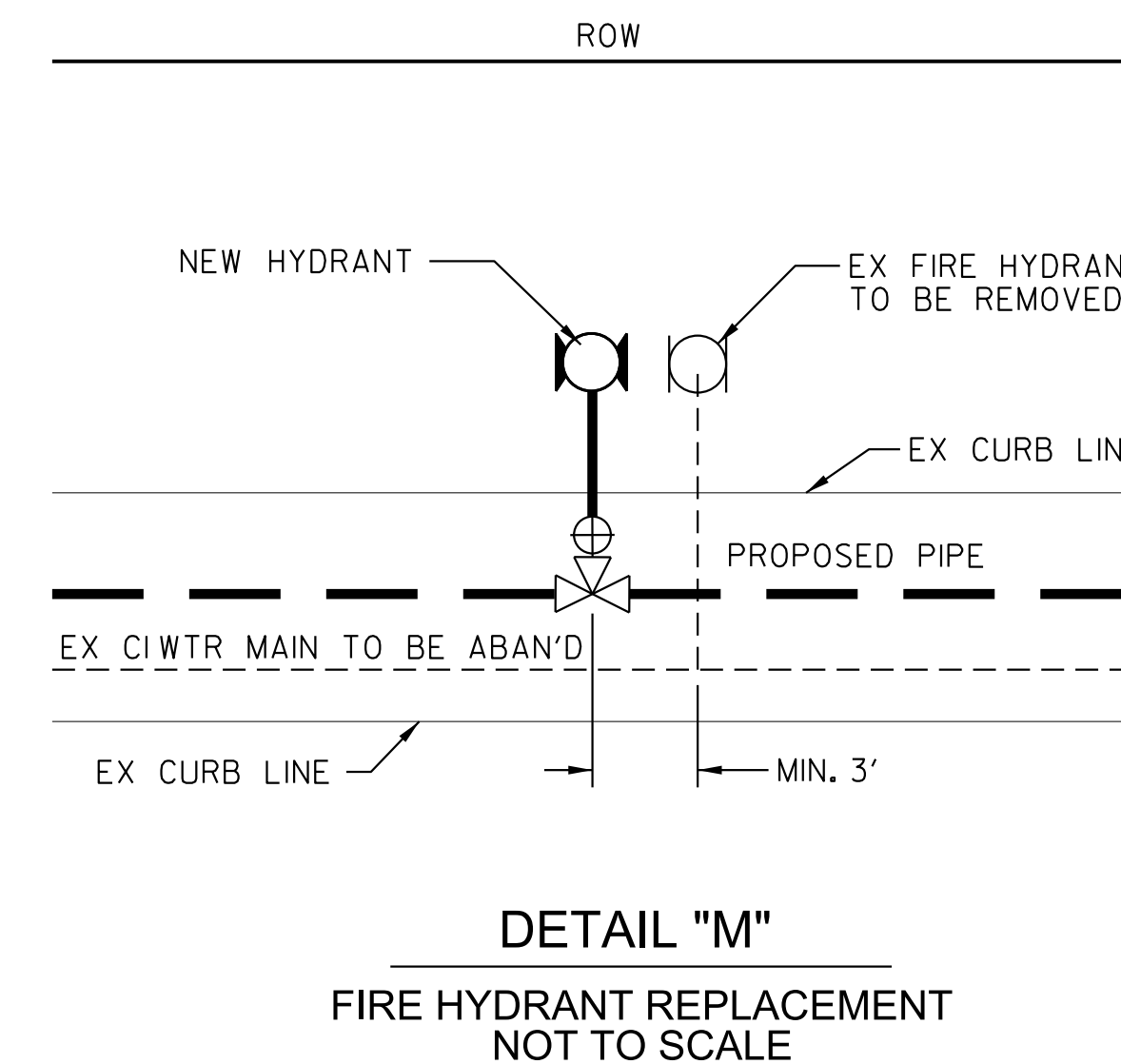


SEWER AND WATER MISC DETAILS

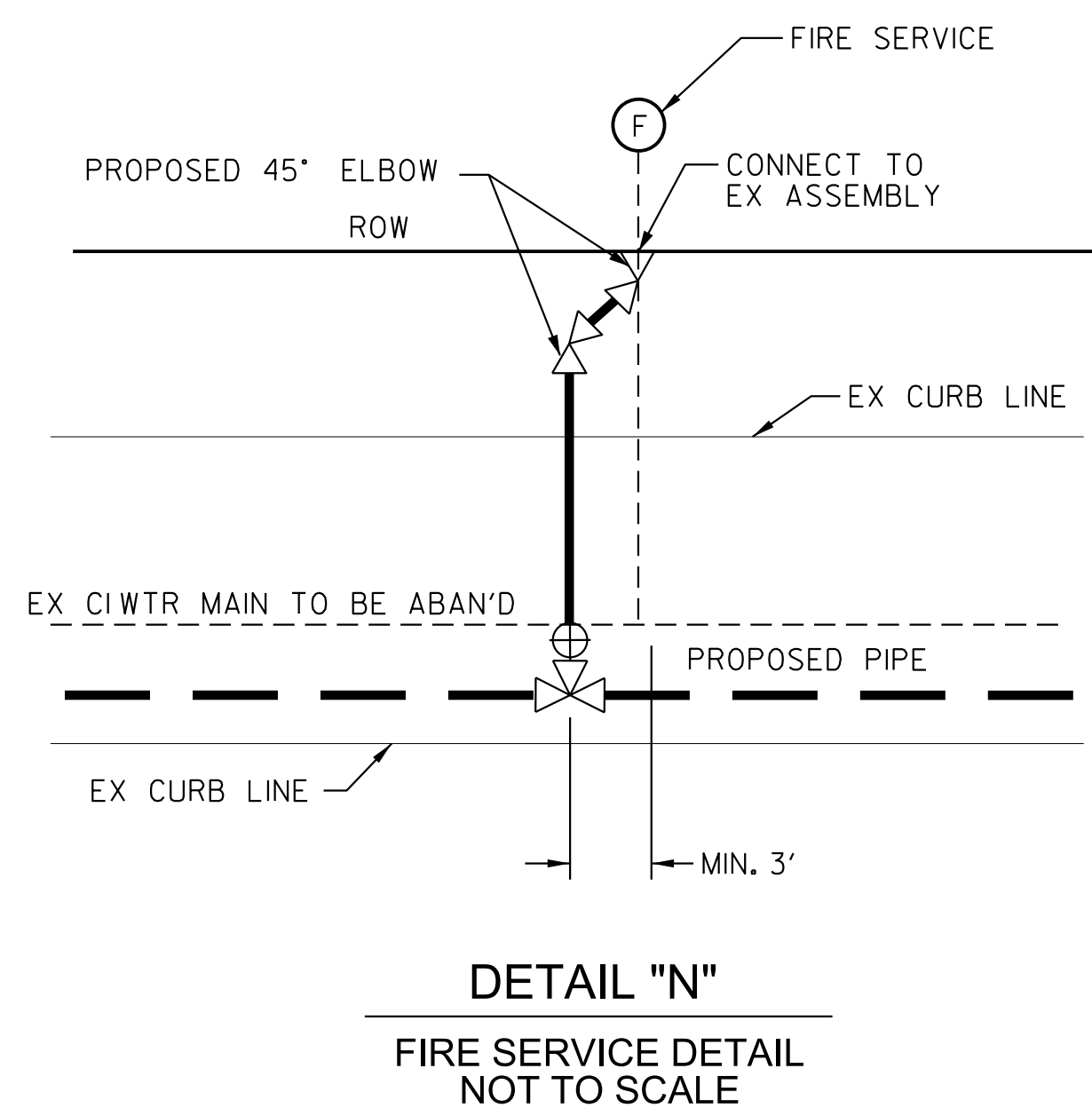
C-24



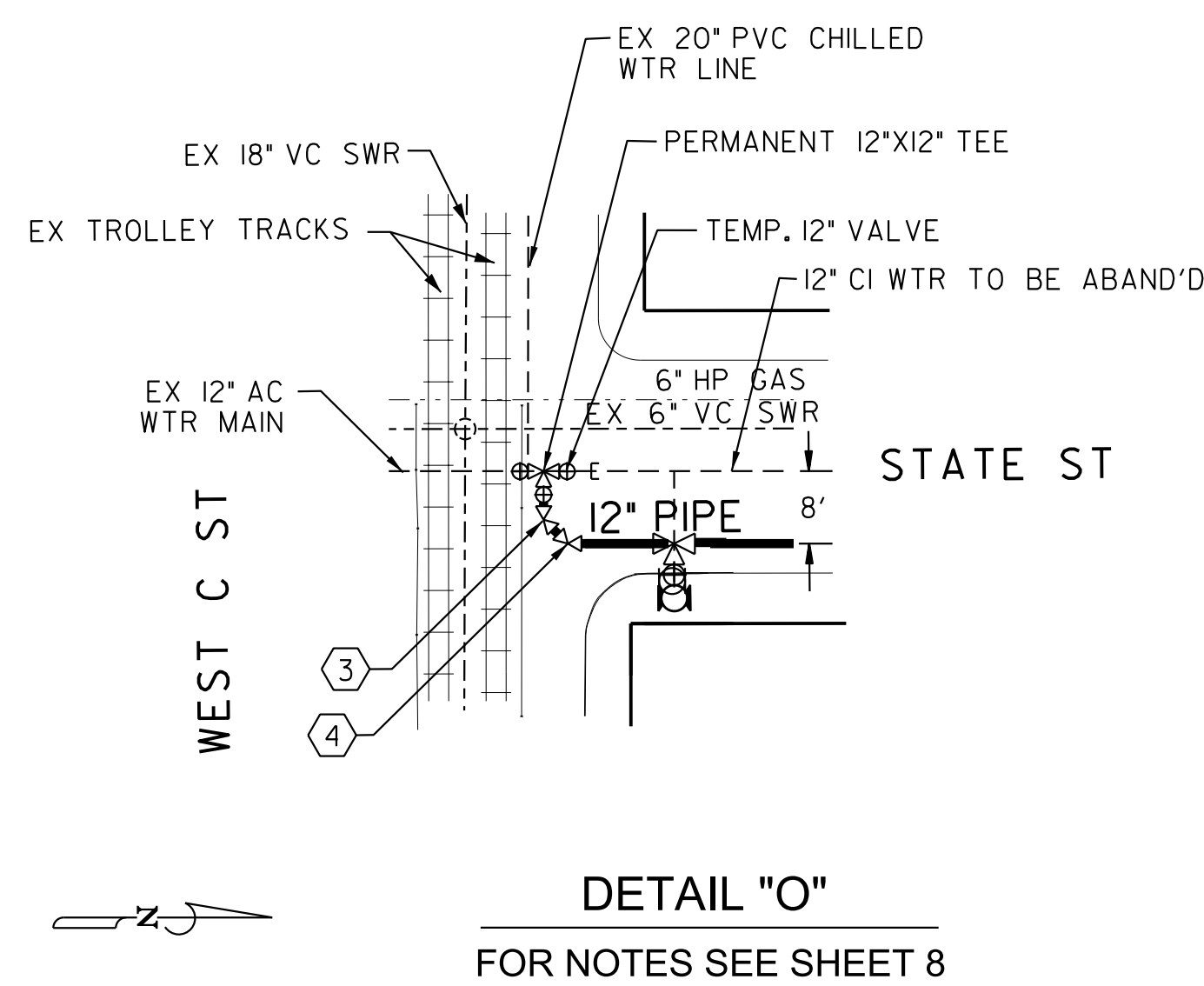
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THIS DETAIL TO BE USED WHEN EXISTING MAIN IS LIVE DURING CONSTRUCTION.



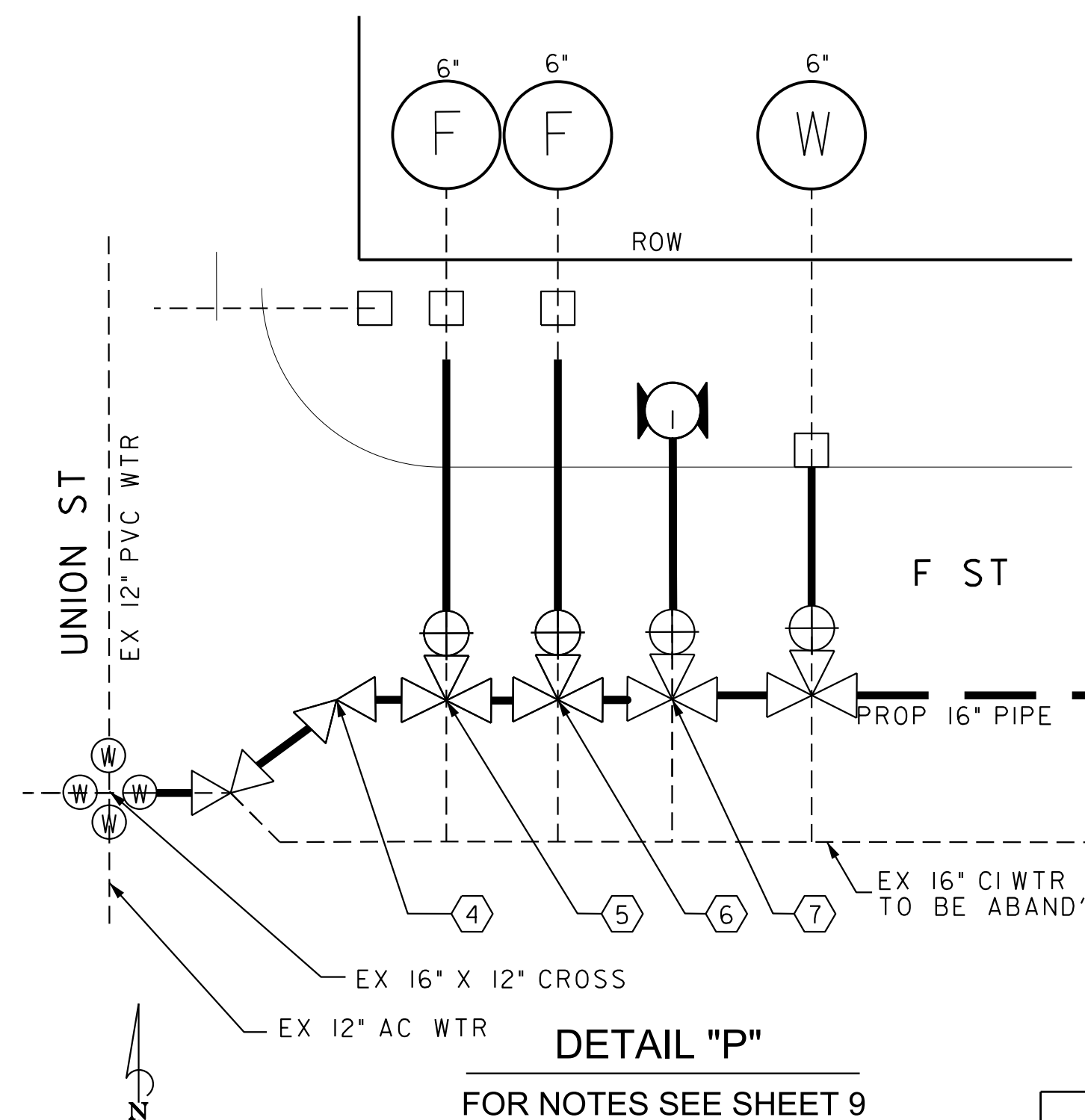
**NOTE:**  
THIS DETAIL TO BE USED WHEN EXISTING MAIN IS LIVE DURING CONSTRUCTION.



**NOTE:**  
THIS DETAIL TO BE USED WHEN EXISTING MAIN IS LIVE DURING CONSTRUCTION.



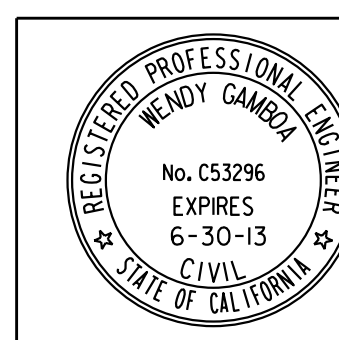
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NOT SCALE

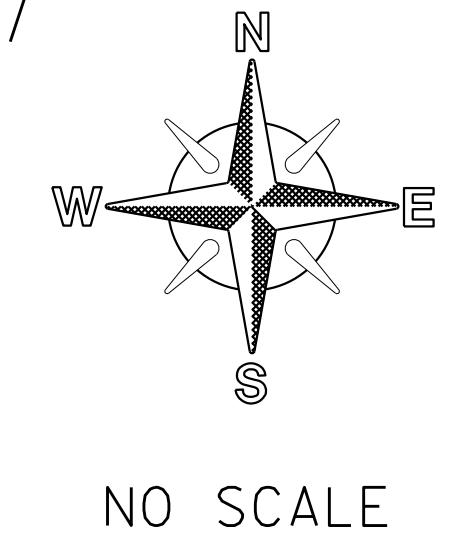
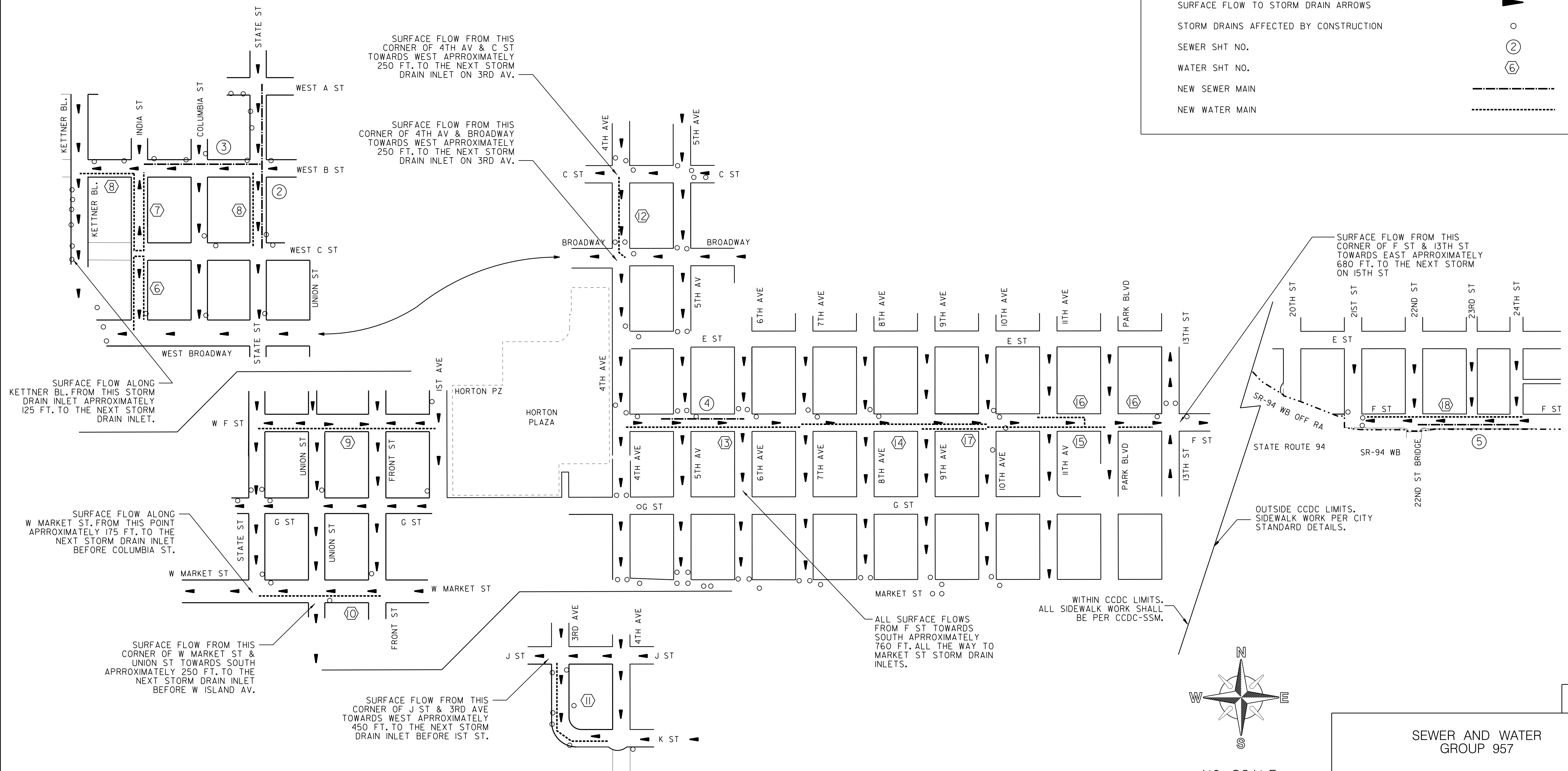
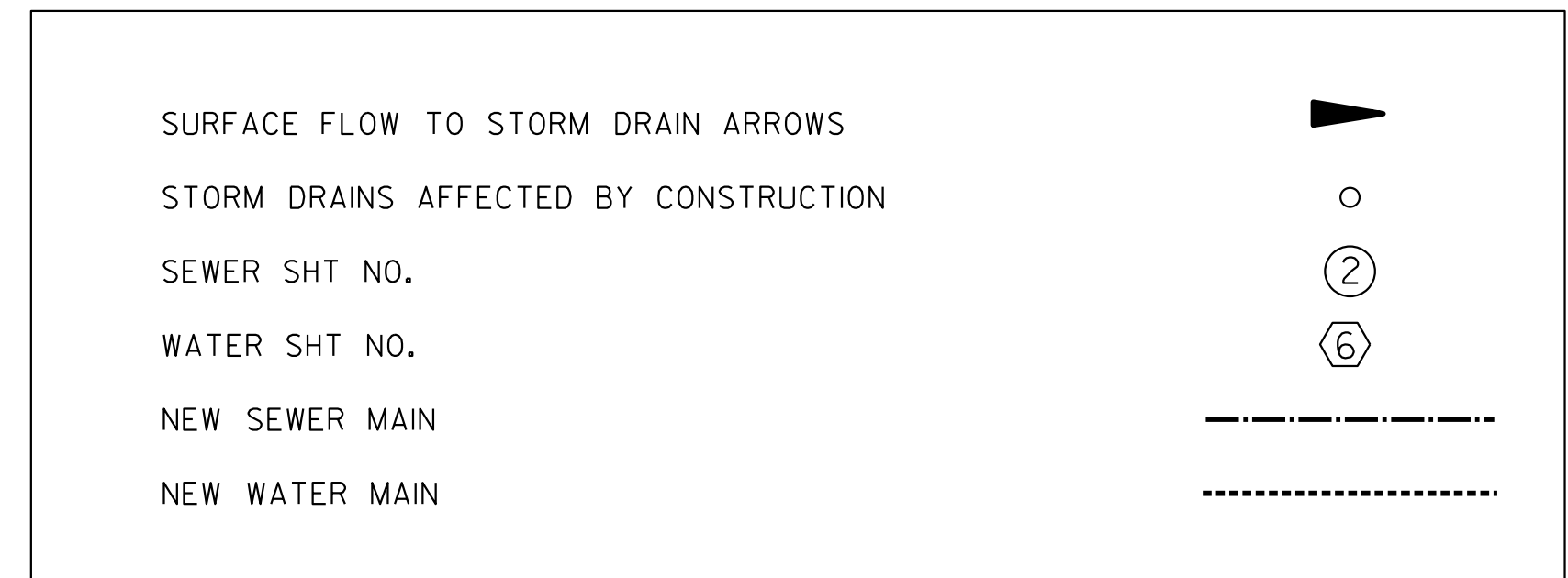
C-25

SEWER AND WATER GROUP 957				WATER MISC DETAILS	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 26 OF 28 SHEETS				WATER WBS	BIII54
FOR CITY ENGINEER				SEWER WBS	BIII52
DATE: 02-13-13				PROJECT MANAGER	JIM HAGGOUY
DESCRIPTION	BY	APPROVED	DATE	FILMED	CHECKED BY
ORIGINAL	AM/SS				ALI MOHAMMADIAN PROJECT ENGINEER
					SEE SHEETS CCS27 COORDINATE
					SEE SHEETS CCS83 COORDINATE
CONTRACTOR	DATE STARTED		DATE COMPLETED		36689-26-D



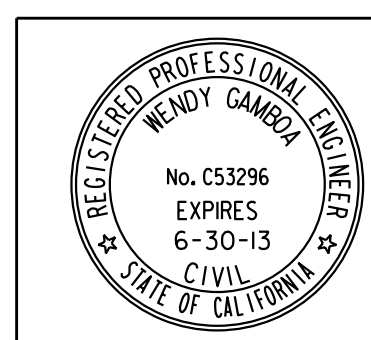


LEGEND



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
2. DEVICES AT GENERAL LOCATIONS THROUGHOUT THE PROJECT SITE, THIS SITE PLAN IS TO BE USED IN CONJUNCTION WITH THE NARRATIVE SECTION OF THE WATER INLET PROTECTION REQUIRED AT ALL STORM DRAINS RECEIVING RUNOFF FROM DISTURBED
3. THE INFORMATION ON THE SITE PLAN IS ACCURATE FOR WATER POLLUTION CONTROL PURPOSES ONLY.



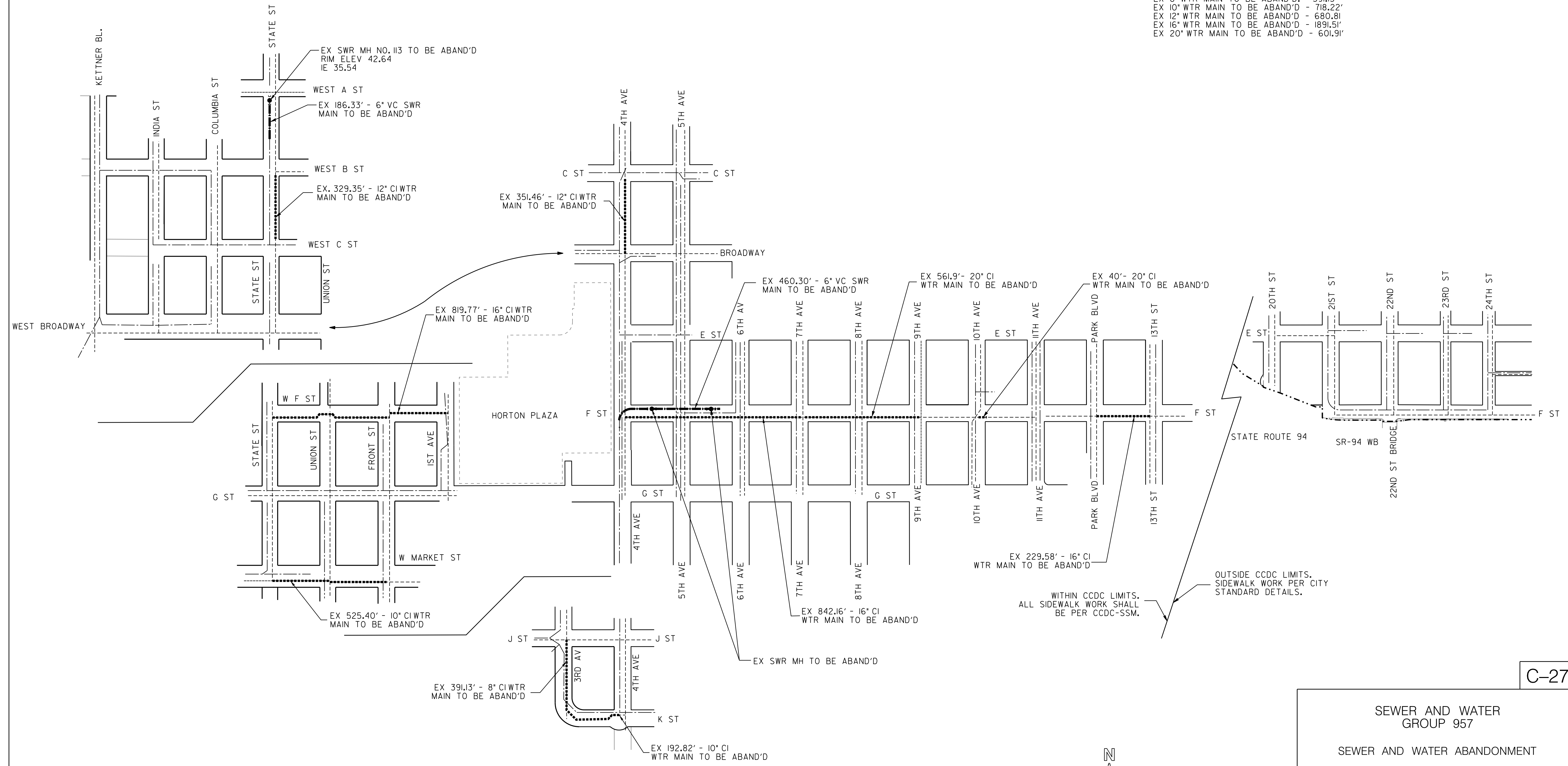
C-26

SEWER AND WATER GROUP 957			
WATER POLLUTION CONTROL SITE PLAN			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 27 OF 28 SHEETS		WATER WBS B11154	SEWER WBS B11152
FOR CITY ENGINEER	DATE	APPROVED BY	
<i>W. Sam</i>	02-13-13	JIM HAGHOLY PROJECT MANAGER	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	AM/SS		
CHECKED BY		PROJECT ENGINEER	
ALI MOHAMMADIAN		SEE SHEETS	
		CCS27 COORDINATE	
		SEE SHEETS	
		CCS83 COORDINATE	
CONTRACTOR	DATE STARTED	36689-27-D	
INSPECTOR	DATE COMPLETED		

WATER POLLUTION CONTROL SITE PLAN



EX SWR MH TO BE ABAND'D - 3  
 EX 6" VC SWR MAIN TO BE ABAND'D. - 646.63'  
 EX 8" WTR MAIN TO BE ABAND'D. - 391.13'  
 EX 10" WTR MAIN TO BE ABAND'D - 718.22'  
 EX 12" WTR MAIN TO BE ABAND'D - 680.81'  
 EX 16" WTR MAIN TO BE ABAND'D - 1891.51'  
 EX 20" WTR MAIN TO BE ABAND'D - 601.91'

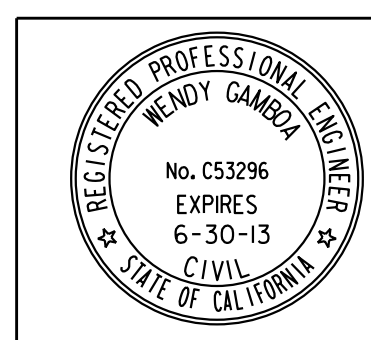
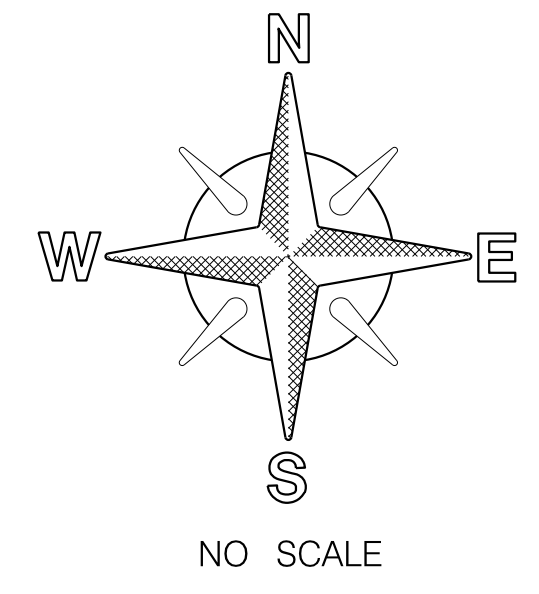


OUTSIDE CCDC LIMITS.  
 SIDEWALK WORK PER CITY  
 STANDARD DETAILS.

WITHIN CCDC LIMITS.  
 ALL SIDEWALK WORK SHALL  
 BE PER CCDC-SSM.

**LEGEND**

- SEWER MAIN TO BE ABAND'D
- WATER MAIN TO BE ABAND'D
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- MANHOLE TO BE ABAND'D



C-27

SEWER AND WATER GROUP 957		SEWER AND WATER ABANDONMENT	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS-ENGINEERING DEPARTMENT SHEET 28 OF 28 SHEETS		WATER WBS	B11154
FOR CITY ENGINEER		SEWER WBS	B11152
DATE		DATE	
02-13-13		02-13-13	
PROJECT MANAGER		PROJECT MANAGER	
JIM HAGHGOUY		JIM HAGHGOUY	
PROJECT ENGINEER		PROJECT ENGINEER	
ALI MOHAMMADIAN		ALI MOHAMMADIAN	
PROJECT ENGINEER		PROJECT ENGINEER	
SEE SHEETS		SEE SHEETS	
CCS27 COORDINATE		CCS27 COORDINATE	
SEE SHEETS		SEE SHEETS	
CCS83 COORDINATE		CCS83 COORDINATE	
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
36689-28-D		36689-28-D	

SEWER AND WATER ABANDONMENT



**TRAFFIC CONTROL NOTES (STREETS WITH ADT OF 5,000 AND OVER) (SHEETS 2 TO 54)**

- VALIDATION: THE TRAFFIC CONTROL PLAN IS NOT VALID UNTIL WORK DATES AND WORK HOURS ARE APPROVED. THE CONTRACTOR SHALL SUBMIT TWO (2) REDUCED COPIES OF TRAFFIC CONTROL PLANS (11"X17") TO THE TRAFFIC CONTROL PERMIT CENTER, 3RD FLOOR DEVELOPMENT SERVICES CENTER, 1222 FIRST AVENUE, SAN DIEGO. THE CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM OF FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.
- CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT (858)495-4741 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY CONSTRUCTION WORK AFFECTING TRAFFIC SIGNALS.
- STANDARDS: THE TRAFFIC CONTROL PLAN SHALL CONFORM TO THE MOST RECENT ADOPTED EDITION OF EACH OF THE FOLLOWING MANUALS:
 

DOCUMENT NO.	EDITION	DESCRIPTION
PITS070112-01	2012	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE "GREEN" BOOK)
PITS070112-03	2012	CITY OF SAN DIEGO STANDARD DRAWINGS
PITS070112-06	2012	CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD)
- NOTIFICATIONS: THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONSTRUCTION, OR TRAFFIC CONTROL AFFECTING THE AGENCIES LISTED BELOW:
 

FIRE DEPARTMENT DISPATCH	(STREET OR ALLEY CLOSURE)	(858)573-1300
POLICE DEPARTMENT DISPATCH	(STREET OR ALLEY CLOSURE)	(619)531-2000
ENVIRONMENTAL SERVICES	(REFUSE COLLECTION)	(858)492-5060
STREET DIVISION	(TRAFFIC SIGNALS)	(619)527-7500
METROPOLITAN TRANSIT SYSTEM (MTS)	(BUS STOPS)	(619)238-0100 EXT. 6451
METROPOLITAN TRANSIT SYSTEM (MTS)	(TAXI ZONES)	(619)235-2644
METROPOLITAN TRANSIT SYSTEM (MTS)	(TROLLEY LINES)	(619)595-4930
UNDERGROUND SERVICE ALERT	(ANY EXCAVATION)	(800)422-4133

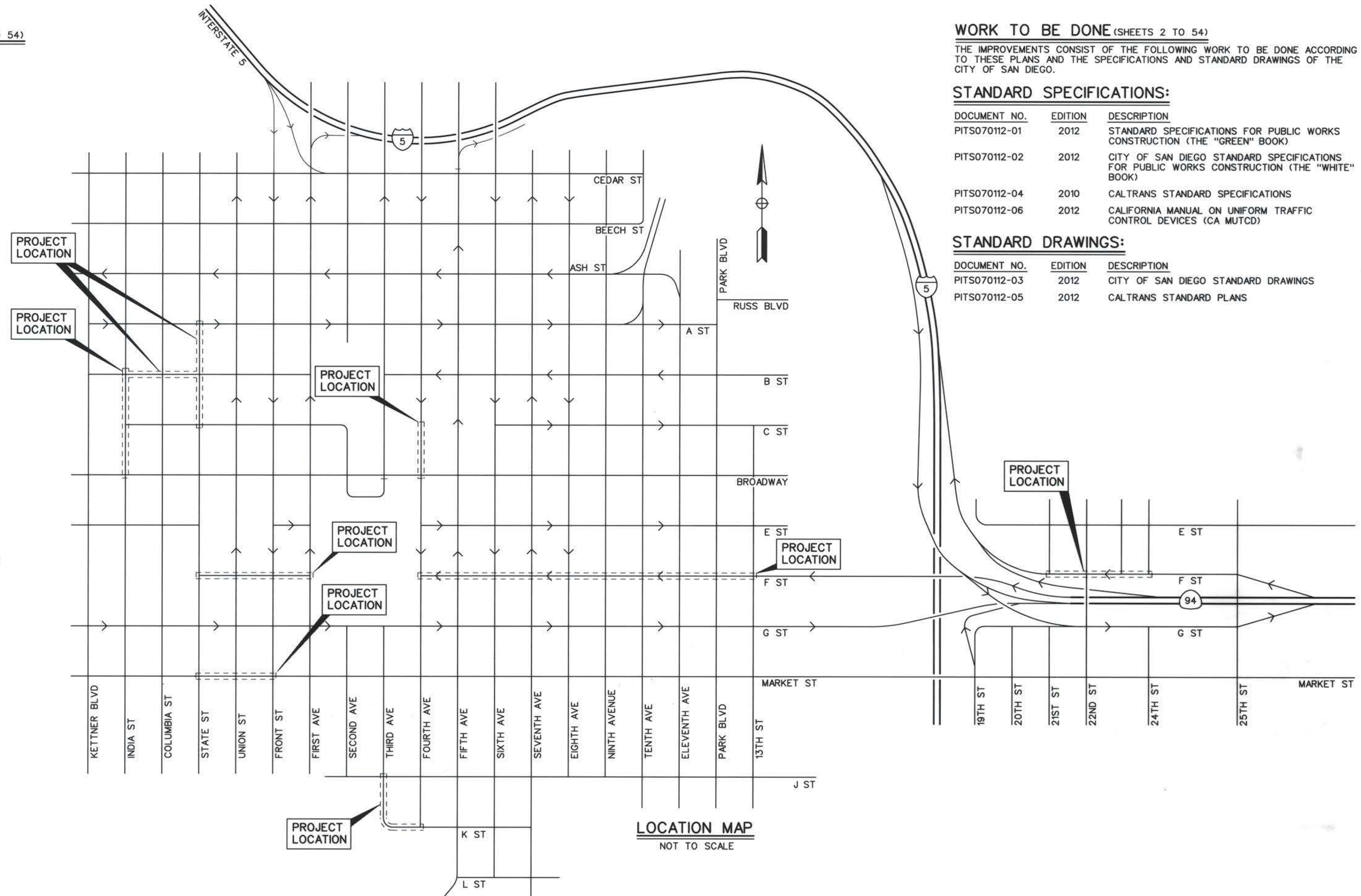
THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF DRIVEWAYS. THE CONTRACTOR SHALL POST SIGNS NOTIFYING THE PUBLIC A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF STREETS.

THE CONTRACTOR SHALL NOTIFY ENGINEERING FIELD DIVISION AT (858)627-3200 AND ARRANGE FOR INSPECTION A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO STARTING WORK INVOLVING NIGHTTIME OR WEEKEND HOURS.
- POSTING PARKING RESTRICTIONS: THE CONTRACTOR SHALL POST TOW-AWAY/NO PARKING SIGNS TWENTY-FOUR (24) HOURS IN ADVANCE OF PARKING REMOVAL. SIGNS SHALL INDICATE SPECIFIC DAYS, DATES AND TIMES OF RESTRICTIONS. PARKING METERS SHALL BE BAGGED WHERE APPLICABLE.
- EXCAVATIONS: EXCEPT WHEN OTHERWISE SHOWN ON THE PLANS, ALL TRENCHES SHALL BE BACKFILLED OR TRENCH-PLATED AT THE END OF EACH WORK DAY. AN ASPHALT RAMP SHALL BE PLACED AROUND EACH TRENCH PLATE TO PREVENT THE PLATE FROM BEING DISLODGED. CONTRACTOR SHALL MONITOR TRENCH PLATES DURING NON-WORKING HOURS TO ENSURE THAT THEY DO NOT BECOME DISLODGED. UPON COMPLETION OF EXCAVATION BACKFILL, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY SURFACE FOR TRAFFIC. WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, THE CONTRACTOR SHALL MAINTAIN ALL TRAVEL LANES, BIKE LANES, AND PEDESTRIAN WALKWAYS IN THE RIGHT-OF-WAY EXCEPT WHEN OTHERWISE SHOWN ON THE PLANS.
- COVERED PEDESTRIAN WALKWAY: THE CONTRACTOR SHALL CONTACT THE CITY RESIDENT ENGINEER AT (619)627-3200 FOR INSPECTION OF ANY COVERED PEDESTRIAN WALKWAY DURING CONSTRUCTION OF SUCH WALKWAY.
- RESTORATION OF ROADWAY: THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING IMPROVEMENTS WITHIN THE RIGHT-OF-WAY NOT DESIGNATED FOR PERMANENT REMOVAL (TRAFFIC SIGNS, STRIPING, PAVEMENT MARKERS, PAVEMENT MARKINGS, LEGENDS, CURB MARKINGS, LOOP DETECTORS, TRAFFIC SIGNAL EQUIPMENT, ETC.) WHICH ARE DAMAGED OR REMOVED AS A RESULT OF OPERATIONS. REPAIRS AND REPLACEMENTS SHALL BE AT LEAST EQUAL TO EXISTING IMPROVEMENT.
- CHANGE IN WORK: THE CITY ENGINEER RESERVES THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL PLANS IN OPERATION AND TO MAKE ANY CHANGES AS FIELD CHANGES WARRANT. ANY CHANGES SHALL BE DOCUMENTED AND SUPERCEDE THESE PLANS.

**LEGEND (SHEETS 2 TO 54)**

ITEM	STANDARD DRAWING	SYMBOL
PROPOSED TEMPORARY ROADSIDE SIGN	-----	■
TYPE II BARRICADE	-----	I
TYPE II BARRICADE WITH SIGN	-----	I
PORTABLE DELINEATOR	-----	●
DIRECTION OF TRAVEL	-----	→
FLASHING ARROW SIGN	-----	⊞
WORK ZONE	-----	⊞
TRAFFIC SIGNAL	-----	(TS)

**IMPORTANT NOTICE**  
 Section 4216 of the Government Code requires a Dig Alert Identification Number be issued before a "Permit to Excavate" will be valid. For your Dig Alert ID Number Call Underground Service Alert Toll Free 1-800-422-4133 Two working days before you dig



**CONSTRUCTION CHANGE TABLE**

CHANGE	DATE	SHEET NUMBERS REVISED OR ADDED THIS CHANGE

**WORK TO BE DONE (SHEETS 2 TO 54)**

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

**STANDARD SPECIFICATIONS:**

DOCUMENT NO.	EDITION	DESCRIPTION
PITS070112-01	2012	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE "GREEN" BOOK)
PITS070112-02	2012	CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE "WHITE" BOOK)
PITS070112-04	2010	CALTRANS STANDARD SPECIFICATIONS
PITS070112-06	2012	CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD)

**STANDARD DRAWINGS:**

DOCUMENT NO.	EDITION	DESCRIPTION
PITS070112-03	2012	CITY OF SAN DIEGO STANDARD DRAWINGS
PITS070112-05	2012	CALTRANS STANDARD PLANS

**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

**ENGINEER OF WORK**

JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSKOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC1-NOTES-6350-49.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK

T-1

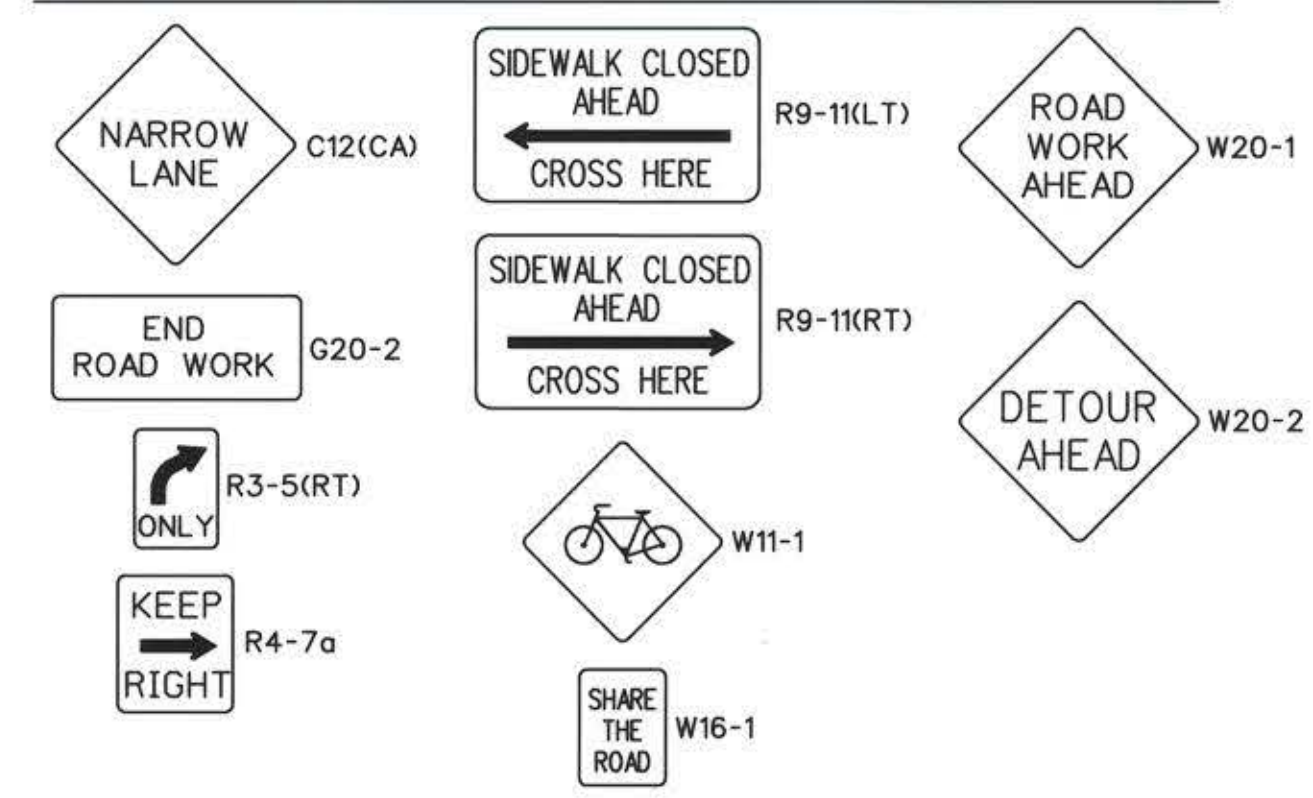
TRAFFIC CONTROL PLANS FOR THE CONSTRUCTION OF:

**SEWER AND WATER GROUP JOB 957**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 1 OF 54 SHEETS		WATER WBS B-1154 SEWER WBS B-1152
APPROVED BY: Ahmed Aloraini FOR CITY ENGINEER	DATE: 12/17/2012	SUBMITTED BY: JIM HAHGOLY ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	BY: LLG	APPROVED DATE: FILMED
SEE CIVIL SHEETS CCS27 COORDINATE		SEE CIVIL SHEETS CCS89 COORDINATE
CONTRACTOR	DATE STARTED	36689-T01-D
INSPECTOR	DATE COMPLETED	



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**



**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL

**\*\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(14)(25)^2}{60} = 146 \text{ FT}$$

$$L/2 = 73 \text{ FT, USE 75 FT}$$

**\*\*\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(19)(25)^2}{60} = 198 \text{ FT}$$

$$L/2 = 99 \text{ FT, USE 100 FT}$$

**\*\*\*\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(10)(25)^2}{60} = 104 \text{ FT}$$

$$L/2 = 52 \text{ FT, USE 75 FT}$$

**\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(19)(25)^2}{60} = 197 \text{ FT}$$

$$\text{USE 240 FT}$$

**TRAFFIC CONTROL DESIGN SPEED**

F STREET = 25 MPH  
 STATE STREET = 25 MPH  
 UNION STREET = 25 MPH

**DECLARATION OF RESPONSIBLE CHARGE**

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

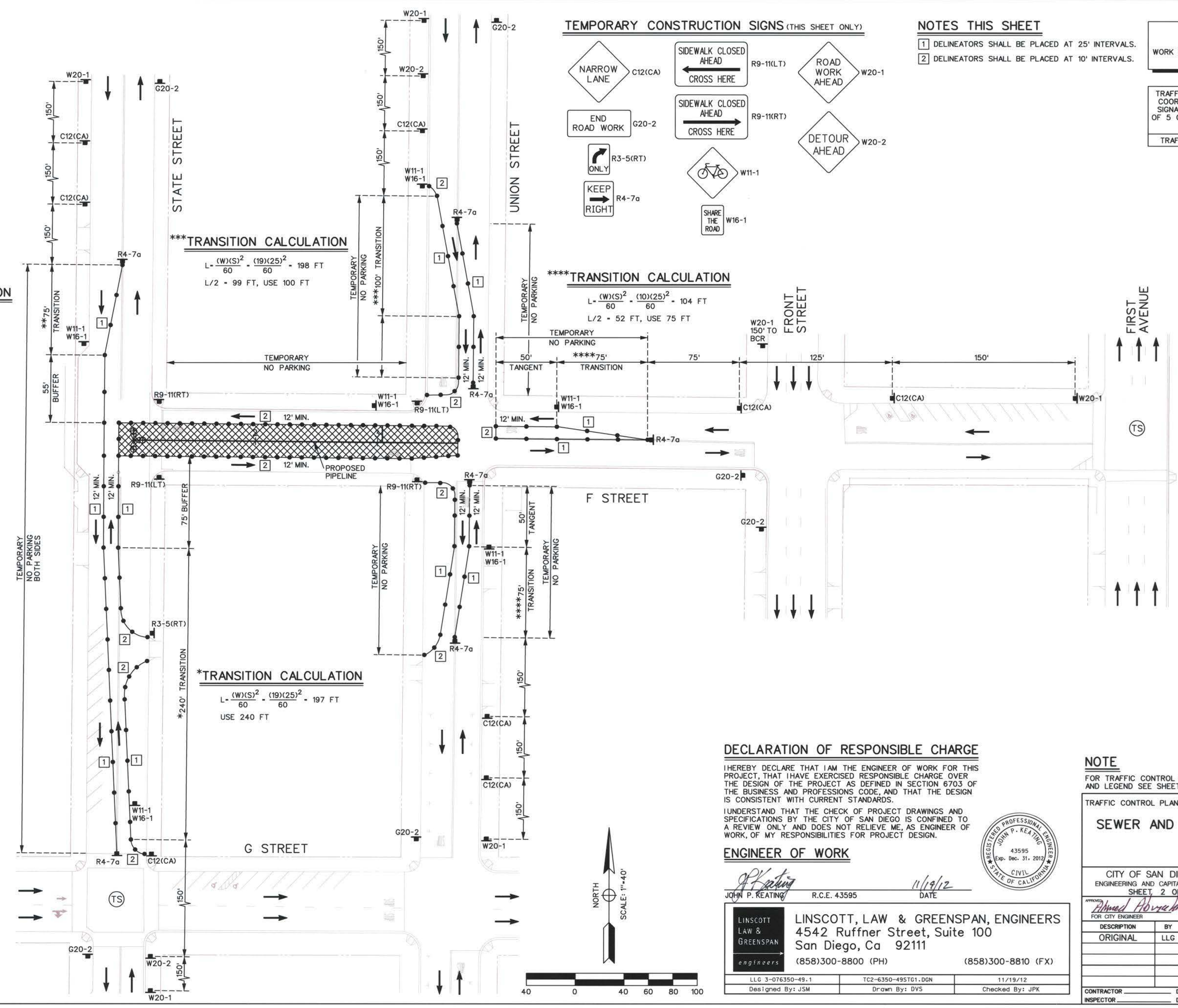
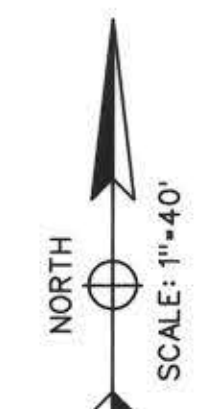
**ENGINEER OF WORK**

*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC2-6350-49ST01.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK



**NOTE**

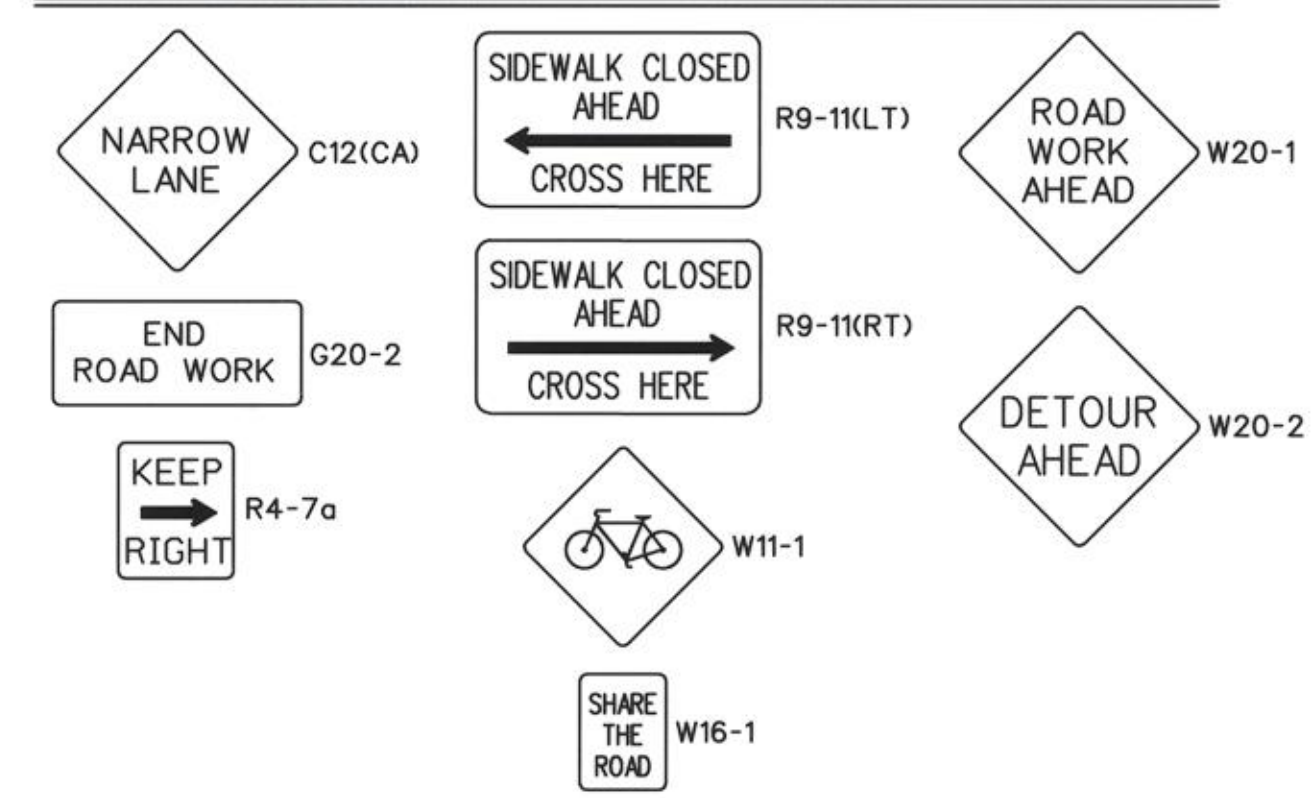
FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-2

TRAFFIC CONTROL PLANS FOR:		WATER WBS B-1154	
SEWER AND WATER GROUP JOB 957		SEWER WBS B-1152	
F STREET (STAGE 1)			
CITY OF SAN DIEGO, CALIFORNIA		ENGINEERED BY: JIM HAGGOUY	
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT		ASSOCIATE ENGINEER	
SHEET 2 OF 54 SHEETS		CHECKED BY: BRIAN VITELLE	
APPROVED: <i>Ahmad Abuvehweh</i> 12/17/2012		PROJECT ENGINEER	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	LLG		
CONTRACTOR	DATE STARTED	36689-T02-D	
INSPECTOR	DATE COMPLETED		



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**



- NOTES THIS SHEET**
- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
  - 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL

**\*\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(13)(25)^2}{60} = 135 \text{ FT}$$

$$L/2 = 68 \text{ FT, USE 75 FT}$$

**\*\*\*\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(12)(25)^2}{60} = 125 \text{ FT}$$

$$L/2 = 63 \text{ FT, USE 75 FT}$$

**\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(7)(25)^2}{60} = 73 \text{ FT}$$

$$L/2 = 37 \text{ FT, USE 50 FT}$$

**\*\*\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(17)(25)^2}{60} = 177 \text{ FT}$$

$$L/2 = 89 \text{ FT, USE 100 FT}$$

**TRAFFIC CONTROL DESIGN SPEED**  
 F STREET = 25 MPH  
 UNION STREET = 25 MPH

**DECLARATION OF RESPONSIBLE CHARGE**

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

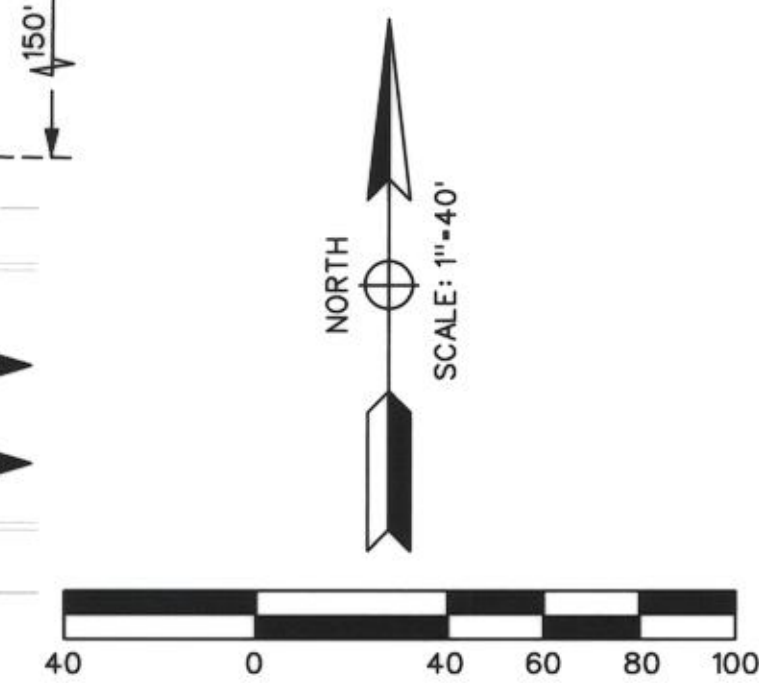
**ENGINEER OF WORK**

JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC3-6350-49STG2.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK



**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-3

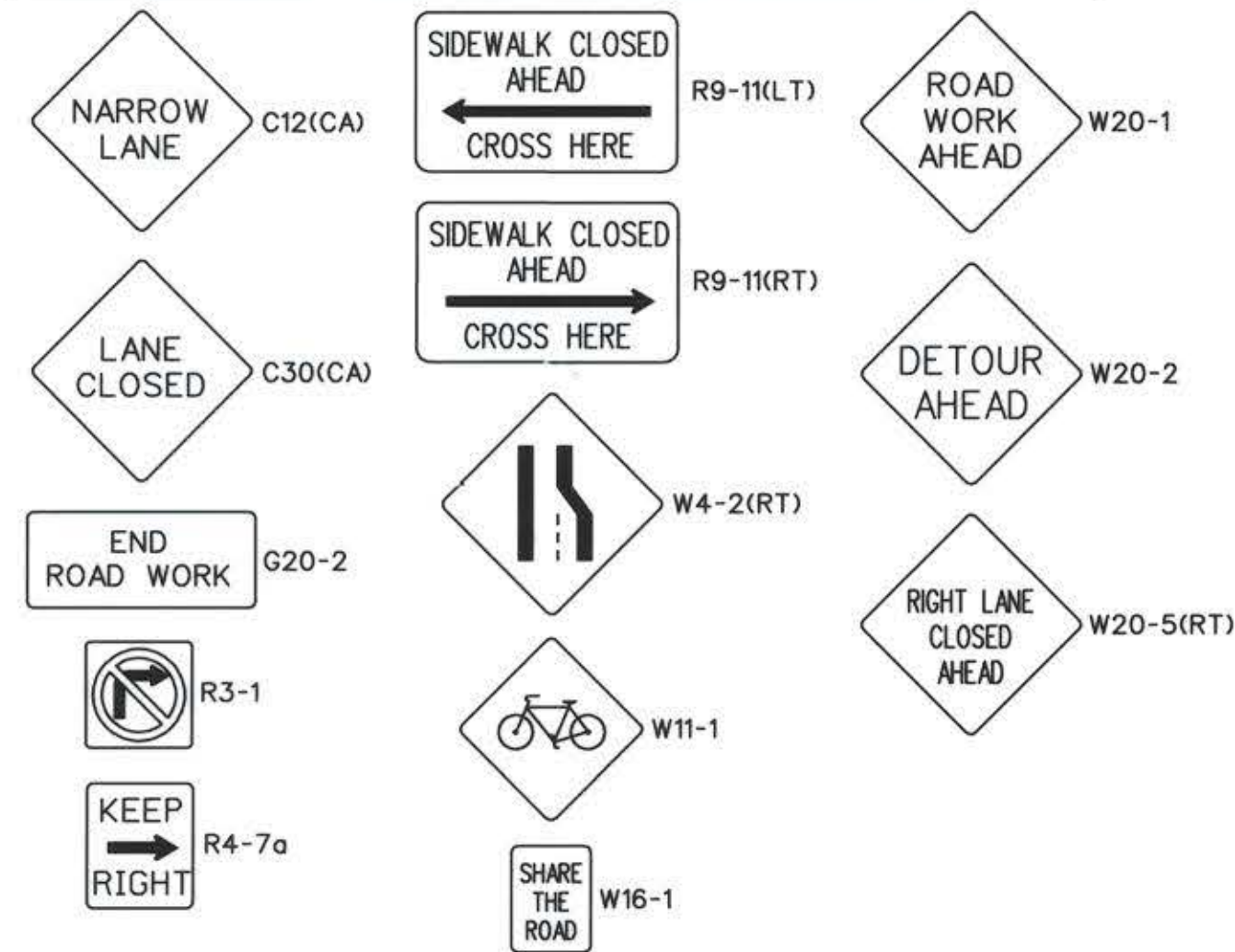
TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957 F STREET (STAGE 2)**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 3 OF 54 SHEETS	WATER WBS B-1154 SEWER WBS B-1152
APPROVED BY: <i>John P. Keating</i> 12/17/2012 FOR CITY ENGINEER DATE	DRAWN BY: JIM HAGHGOULY ASSOCIATE ENGINEER
DESCRIPTION BY APPROVED DATE FILMED	ORDERED BY: BRIAN VITELLE PROJECT ENGINEER
ORIGINAL LLG	SEE CIVIL SHEETS CCS27 COORDINATE
	SEE CIVIL SHEETS CCS83 COORDINATE
CONTRACTOR DATE STARTED	36689-T03-D
INSPECTOR DATE COMPLETED	



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**



**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL

**\*\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(11)(25)^2}{60} = 115 \text{ FT}$$

USE 125 FT

**\*\*\*TRANSITION CALCULATION**

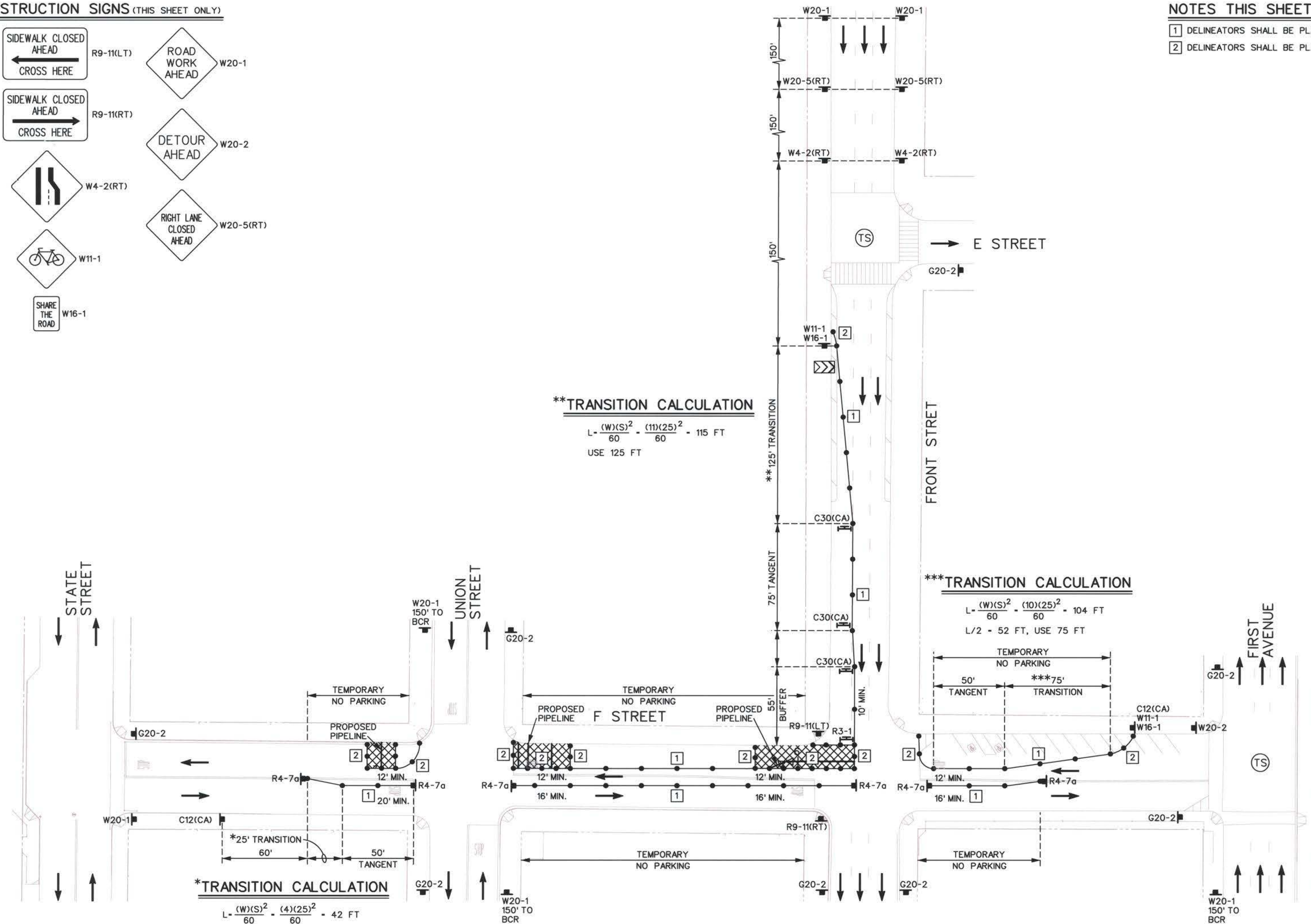
$$L = \frac{(W)(S)^2}{60} = \frac{(10)(25)^2}{60} = 104 \text{ FT}$$

L/2 = 52 FT, USE 75 FT

**\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(4)(25)^2}{60} = 42 \text{ FT}$$

L/2 = 21 FT, USE 25 FT



**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

**ENGINEER OF WORK**

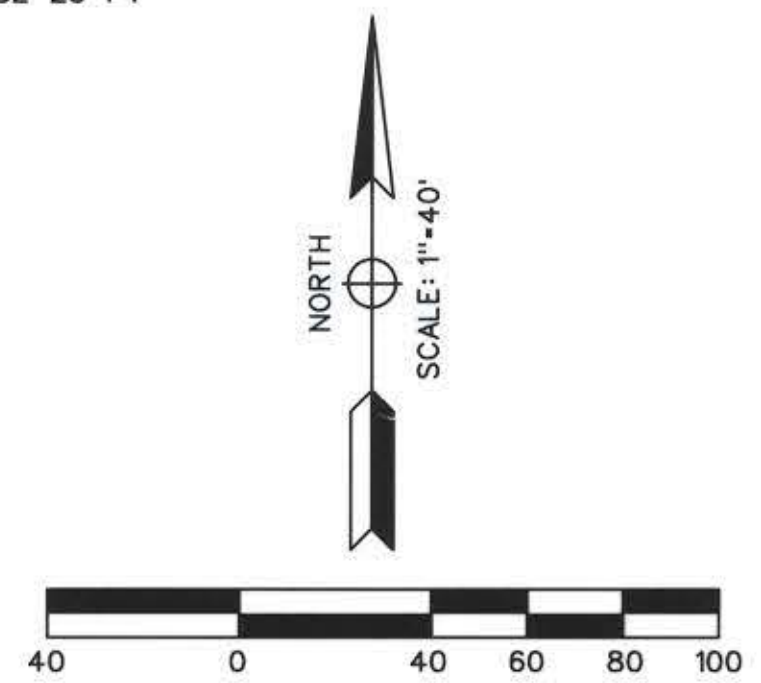
*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC4-6350-49STG3.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK

**TRAFFIC CONTROL DESIGN SPEED**  
 F STREET = 25 MPH  
 FRONT STREET = 25 MPH



**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

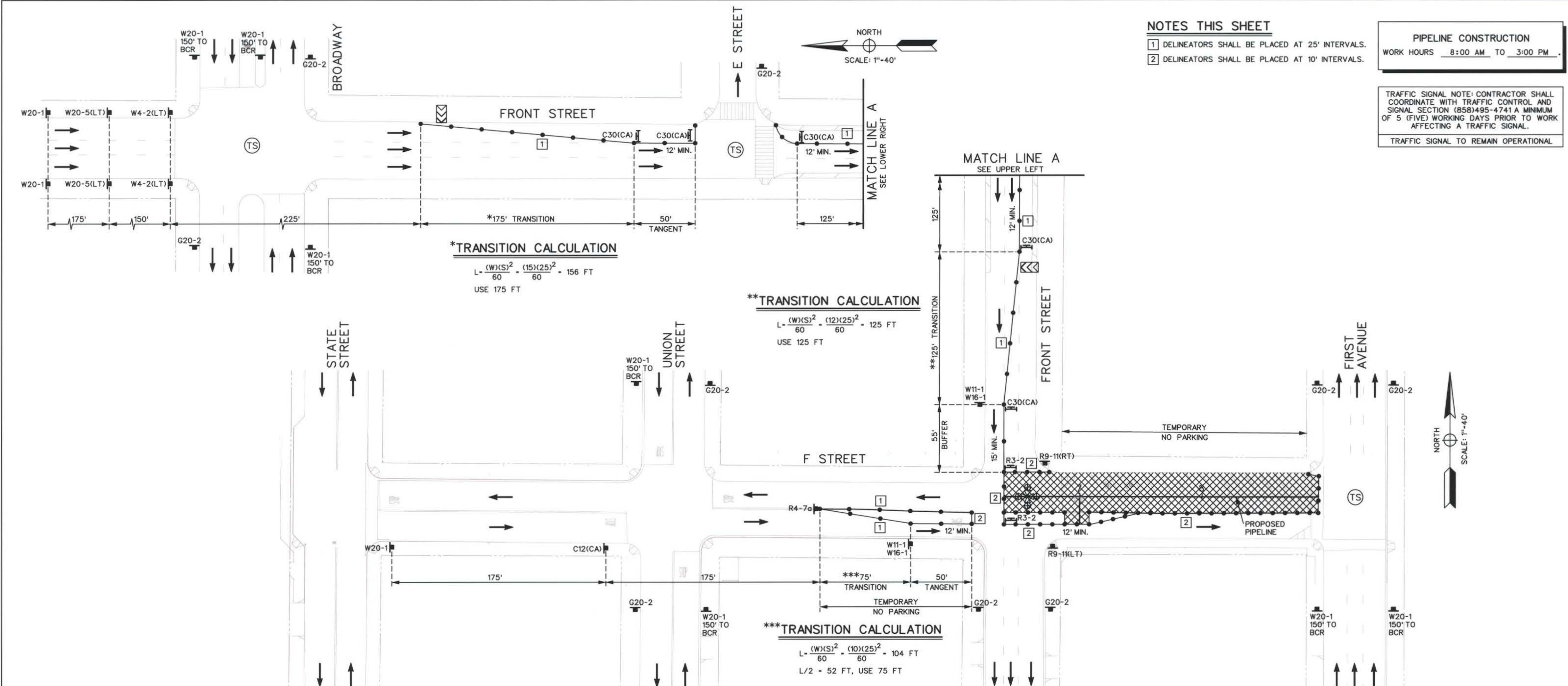
T-4

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957  
 F STREET  
 (STAGE 3)**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 4 OF 54 SHEETS		WATER WBS B-1154 SEWER WBS B-1152
FOR CITY ENGINEER	DATE 12/17/2012	DESIGNED BY JIM HAGHGOUY ASSOCIATE ENGINEER
DESCRIPTION ORIGINAL	BY LLG	APPROVED DATE FILMED
DESIGNED BY BRIAN VITELLE PROJECT ENGINEER		SEE CIVIL SHEETS CCS27 COORDINATE
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED
		36689-T04-D





**NOTES THIS SHEET**  
 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.  
 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (85B)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL

**\*TRANSITION CALCULATION**  

$$L = \frac{(W)(S)^2}{60} = \frac{(15)(25)^2}{60} = 156 \text{ FT}$$
 USE 175 FT

**\*\*TRANSITION CALCULATION**  

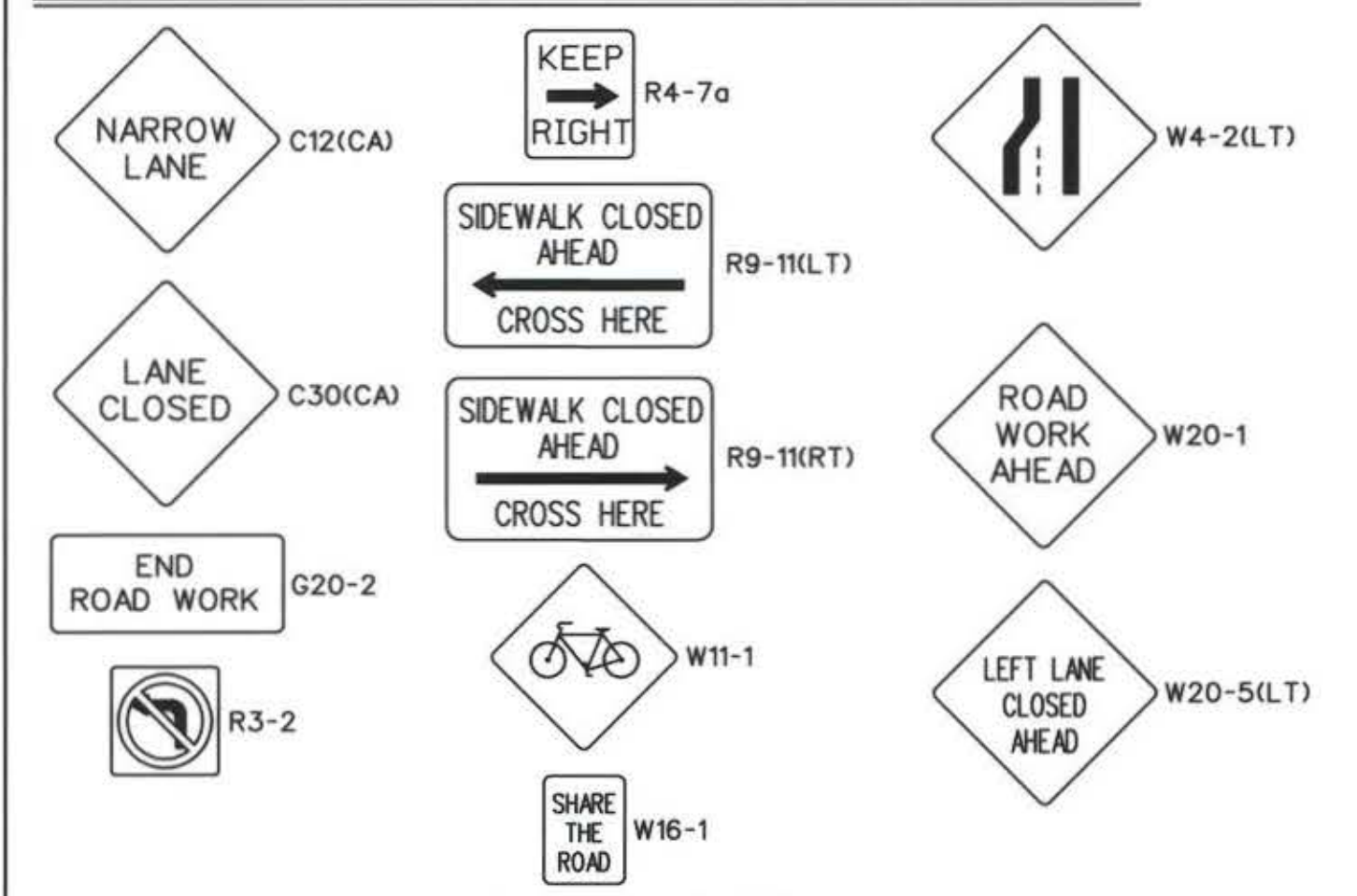
$$L = \frac{(W)(S)^2}{60} = \frac{(12)(25)^2}{60} = 125 \text{ FT}$$
 USE 125 FT

**\*\*\*TRANSITION CALCULATION**  

$$L = \frac{(W)(S)^2}{60} = \frac{(10)(25)^2}{60} = 104 \text{ FT}$$

$$L/2 = 52 \text{ FT, USE 75 FT}$$

**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**



**TRAFFIC CONTROL DESIGN SPEED**  
 F STREET = 25 MPH  
 FRONT STREET = 25 MPH

**DECLARATION OF RESPONSIBLE CHARGE**

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

**ENGINEER OF WORK**

JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)



**NOTE**

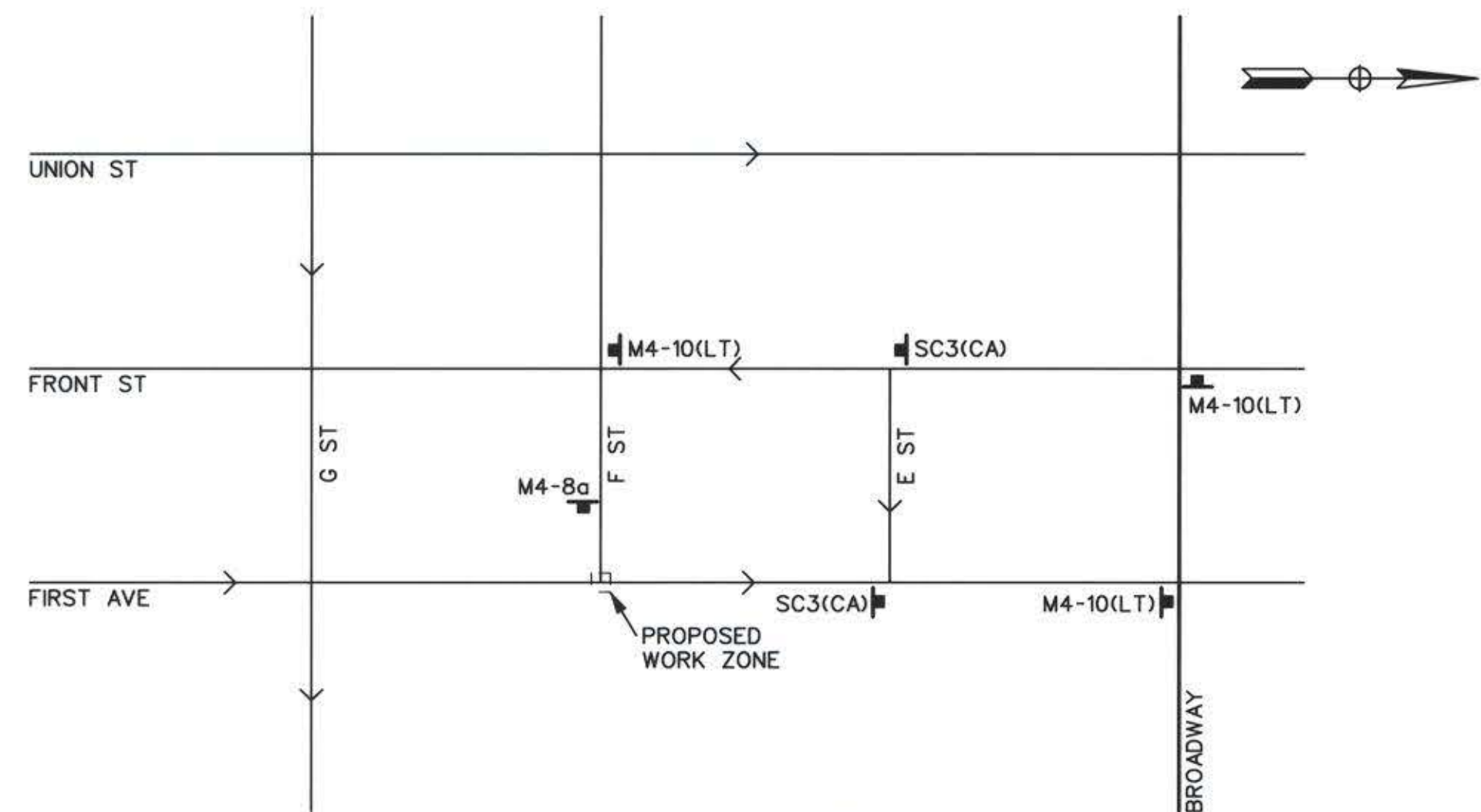
FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1. T-5

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957 F STREET (STAGE 4)**

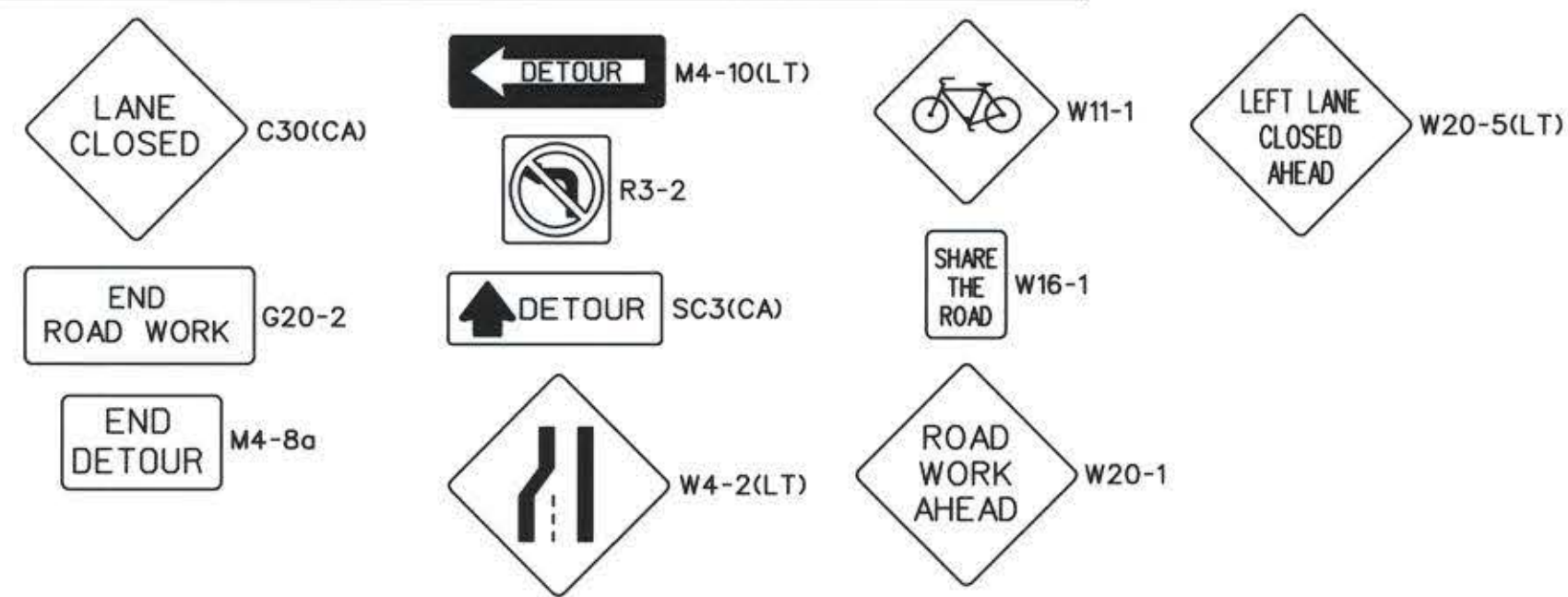
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 5 OF 54 SHEETS	WATER WBS B-11154 SEWER WBS B-11152
APPROVED: <i>Abdul Husein</i> 12/17/2012 FOR CITY ENGINEER DATE	DESIGNED BY: JIM HAGGOUY ASSOCIATE ENGINEER CHECKED BY: BRIAN VITELLE PROJECT ENGINEER
DESCRIPTION BY APPROVED DATE FILMED	SEE CIVIL SHEETS CCS27 COORDINATE SEE CIVIL SHEETS CCS83 COORDINATE
CONTRACTOR DATE STARTED INSPECTOR DATE COMPLETED	36689-T05-D





**DETOUR PLAN 3**  
NOT TO SCALE

**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**

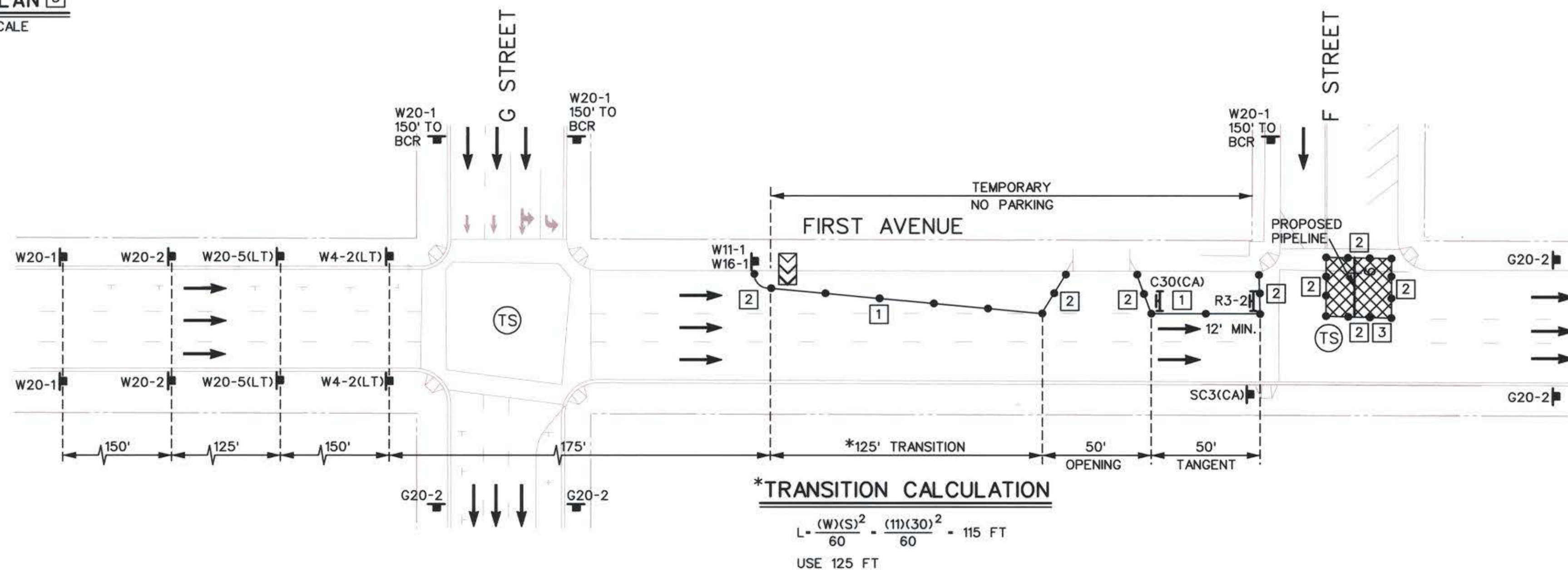


**NOTES THIS SHEET**

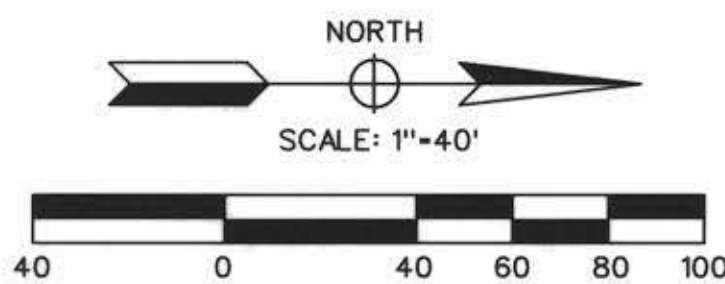
- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.
- 3 SEE DETOUR PLAN THIS SHEET.

**PIPELINE CONSTRUCTION**  
WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**TRAFFIC CONTROL DESIGN SPEED**  
FIRST AVENUE = 25 MPH



**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

**ENGINEER OF WORK**

*[Signature]*  
JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
4542 Ruffner Street, Suite 100  
San Diego, Ca 92111  
(858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1	TC6-6350-495TG5.DGN	11/19/12
Designed By: JSM	Drawn By: DVS	Checked By: JPK

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-6

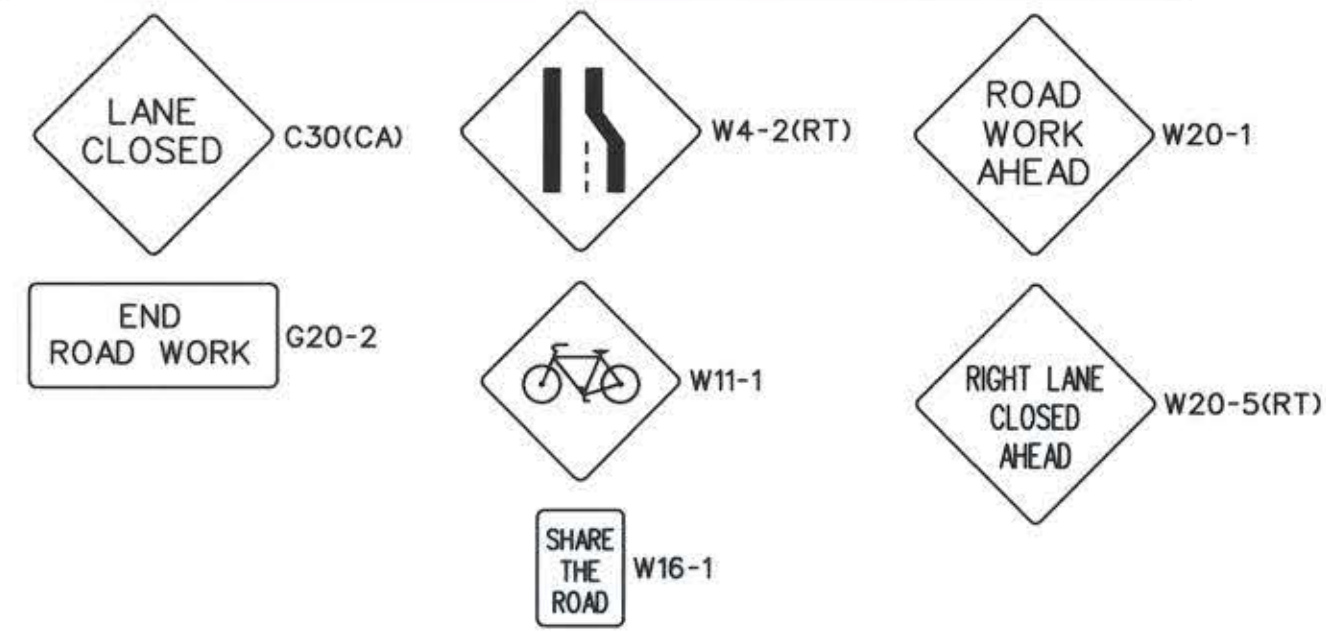
TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957**  
**F STREET**  
(STAGE 5)

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 6 OF 54 SHEETS				WATER WBS B-1154 SEWER WBS B-1152
APPROVED BY: <i>[Signature]</i> FOR CITY ENGINEER	DATE: 12/17/2012	DESIGNED BY: JIM HAGHGOUY ASSOCIATE ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	LLG			
SEE CIVIL SHEETS CCS27 COORDINATE				
SEE CIVIL SHEETS CCS83 COORDINATE				
CONTRACTOR	DATE STARTED	36689-T06-D		
INSPECTOR	DATE COMPLETED			



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**

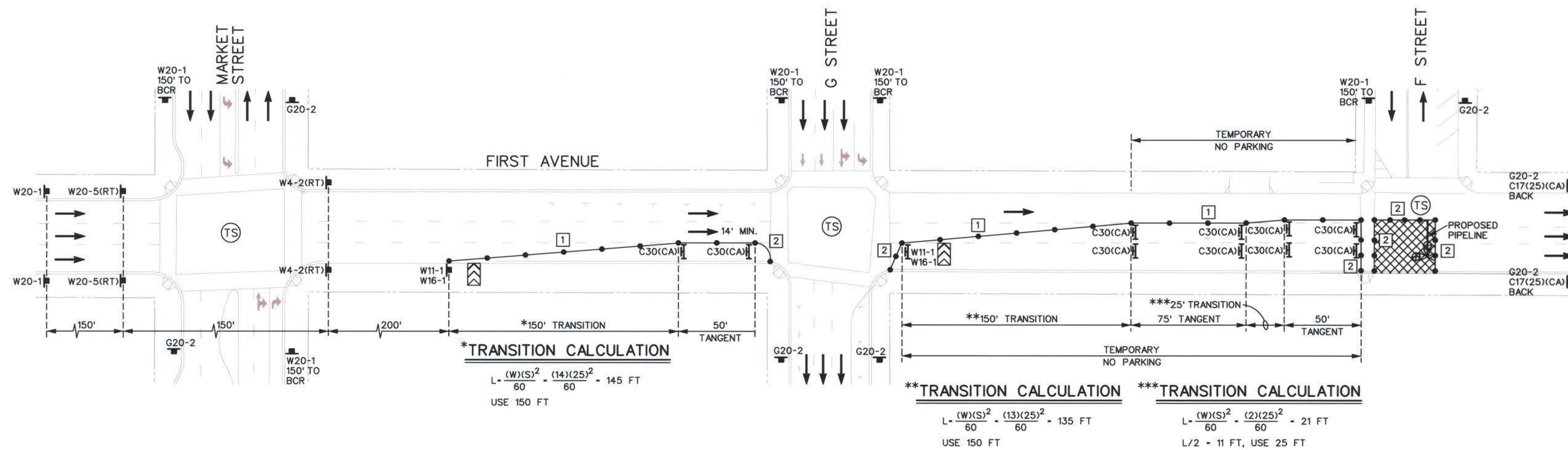


**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**DECLARATION OF RESPONSIBLE CHARGE**

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

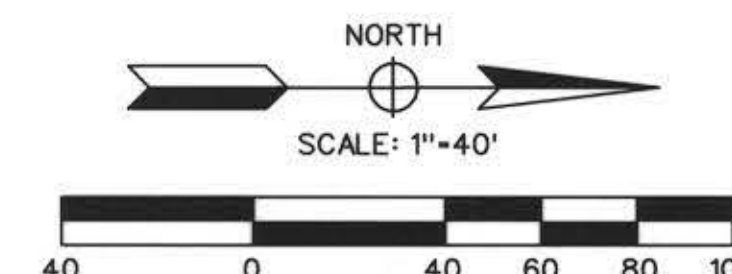
**ENGINEER OF WORK**

JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC7-6350-495T66.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK



**TRAFFIC CONTROL DESIGN SPEED**  
 FIRST AVENUE = 25 MPH

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-7

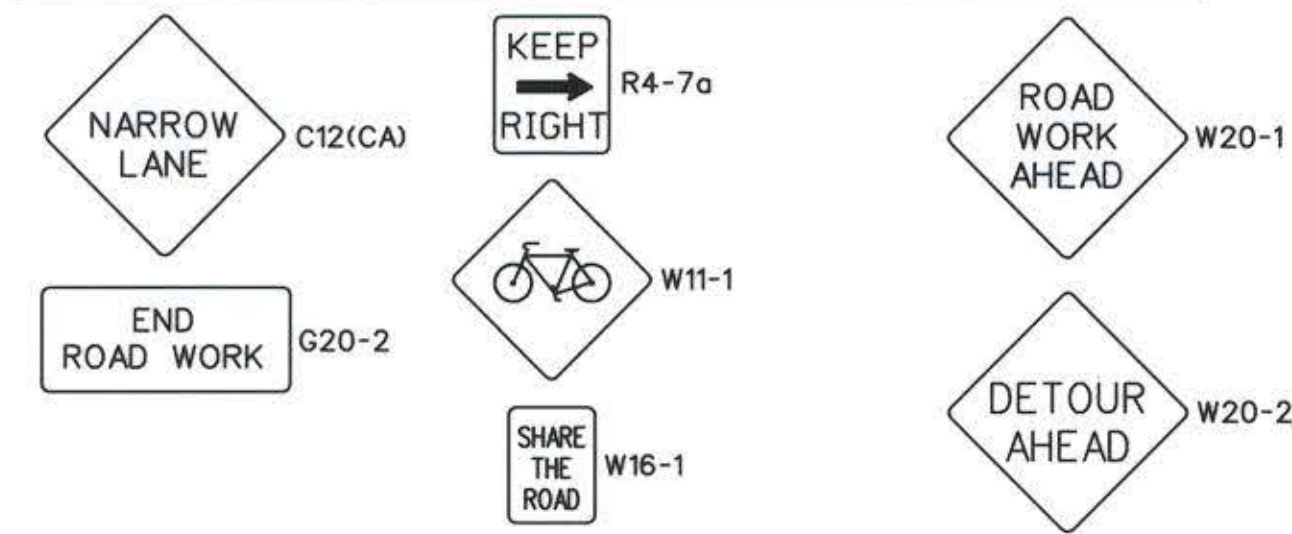
TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957 F STREET (STAGE 6)**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 7 OF 54 SHEETS		WATER WBS B-1154 SEWER WBS B-1152
APPROVED BY: <i>John P. Keating</i> FOR CITY ENGINEER	DATE: 12/17/2012	DESIGNED BY: JIM HAGGOLY ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	BY: LLG	APPROVED: [ ]
	DATE: [ ]	FILMED: [ ]
		DESIGNED BY: BRIAN VITELLE PROJECT ENGINEER
		SEE CIVIL SHEETS CCS27 COORDINATE
		SEE CIVIL SHEETS CCS83 COORDINATE
CONTRACTOR: [ ]	DATE STARTED: [ ]	36689-T07-D
INSPECTOR: [ ]	DATE COMPLETED: [ ]	



TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)

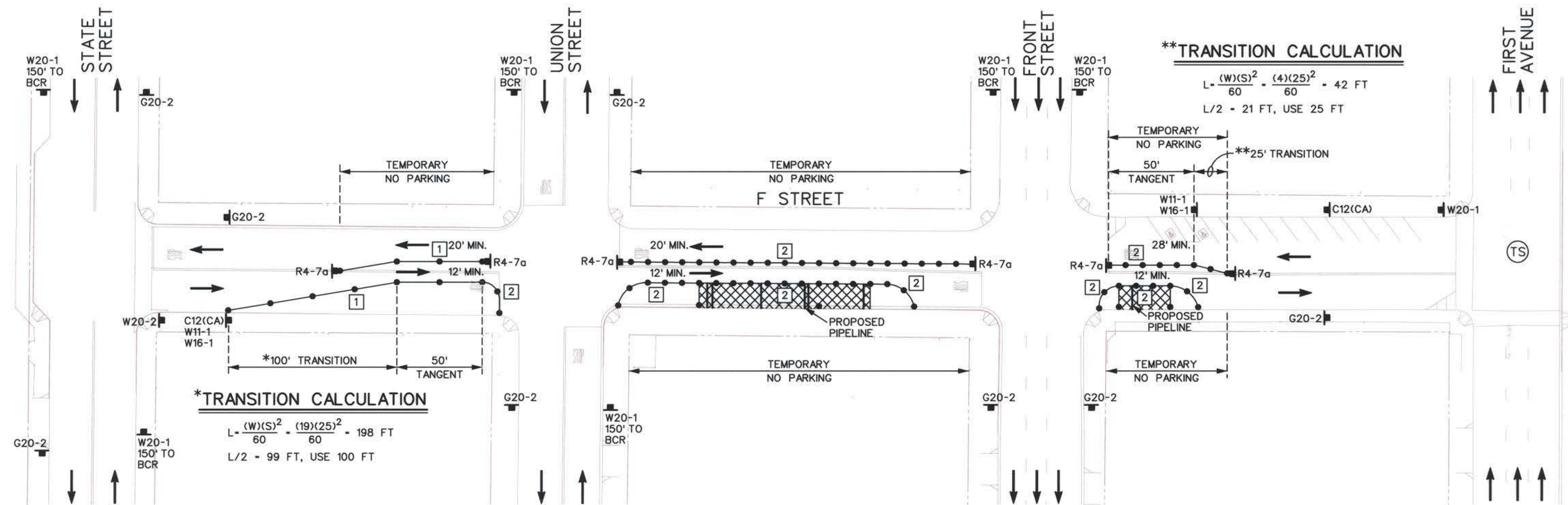


NOTES THIS SHEET

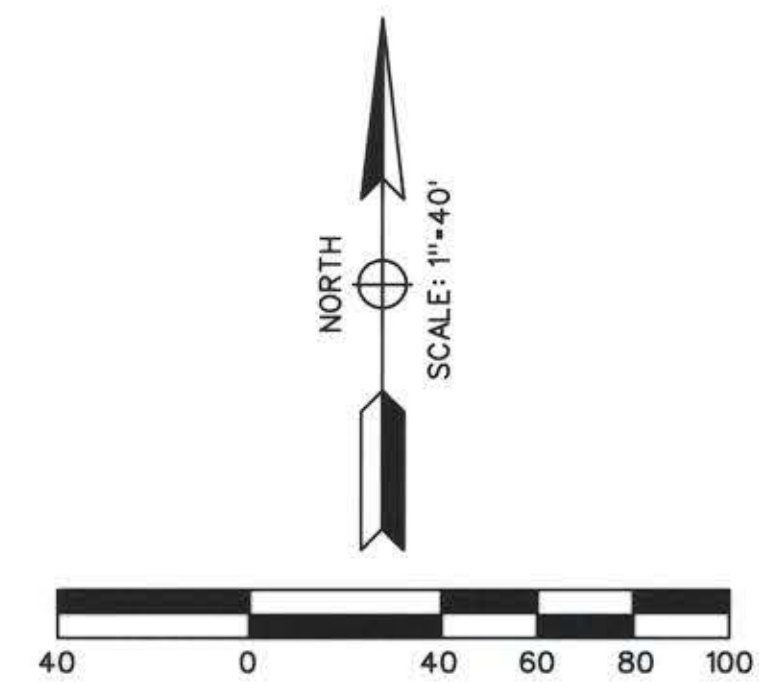
- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

PIPELINE CONSTRUCTION  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



TRAFFIC CONTROL DESIGN SPEED  
 F STREET = 25 MPH



DECLARATION OF RESPONSIBLE CHARGE

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

ENGINEER OF WORK

JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC8-6350-49STG7.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK

NOTE

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-8

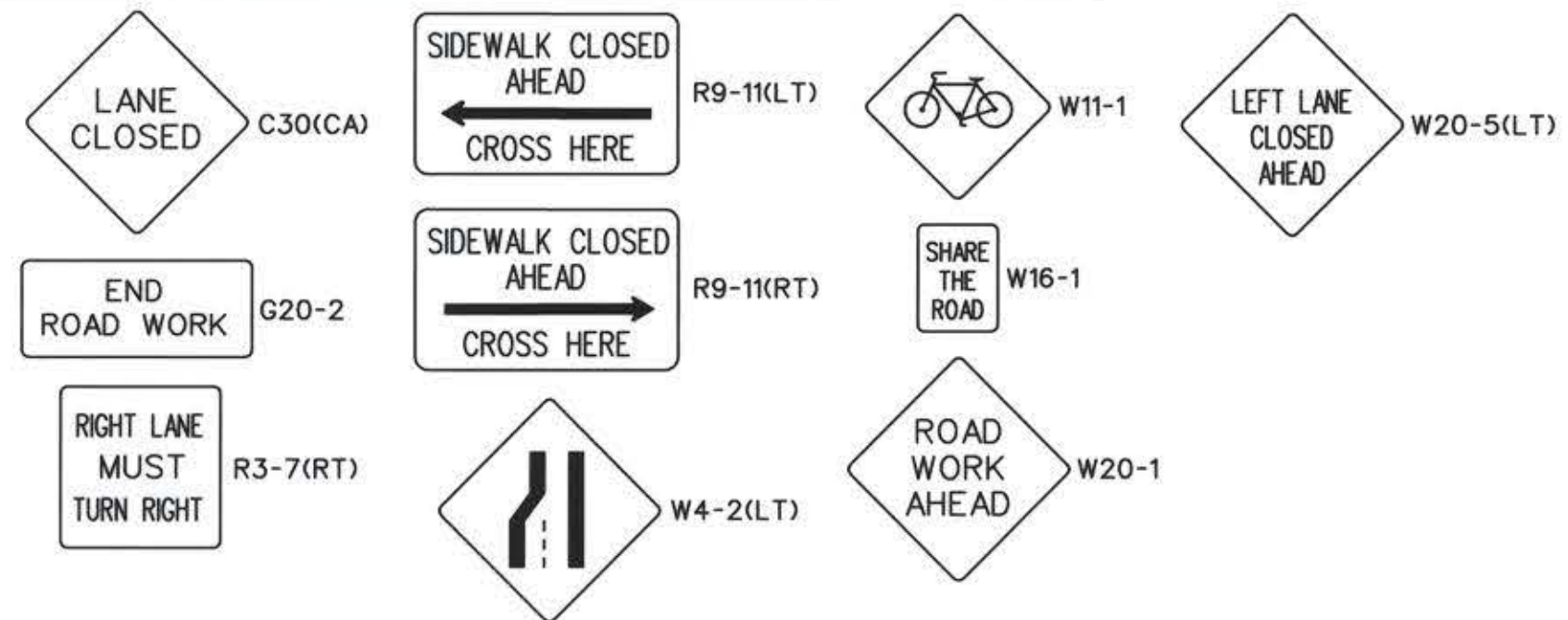
TRAFFIC CONTROL PLANS FOR:

SEWER AND WATER GROUP JOB 957  
 F STREET  
 (STAGE 7)

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 8 OF 54 SHEETS				WATER WBS B-11154 SEWER WBS B-11152
APPROVED BY: <i>John P. Keating</i>	DATE: 12/17/2012	SUBMITTED BY: JIM HAGGOLY ASSOCIATE ENGINEER		
FOR CITY ENGINEER	DATE	DESIGNED BY: BRIAN VITELLE PROJECT ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	LLG			
				SEE CIVIL SHEETS CCS27 COORDINATE
				SEE CIVIL SHEETS CCS83 COORDINATE
CONTRACTOR	DATE STARTED	36689-T08-D		
INSPECTOR	DATE COMPLETED			



TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)



NOTES THIS SHEET

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

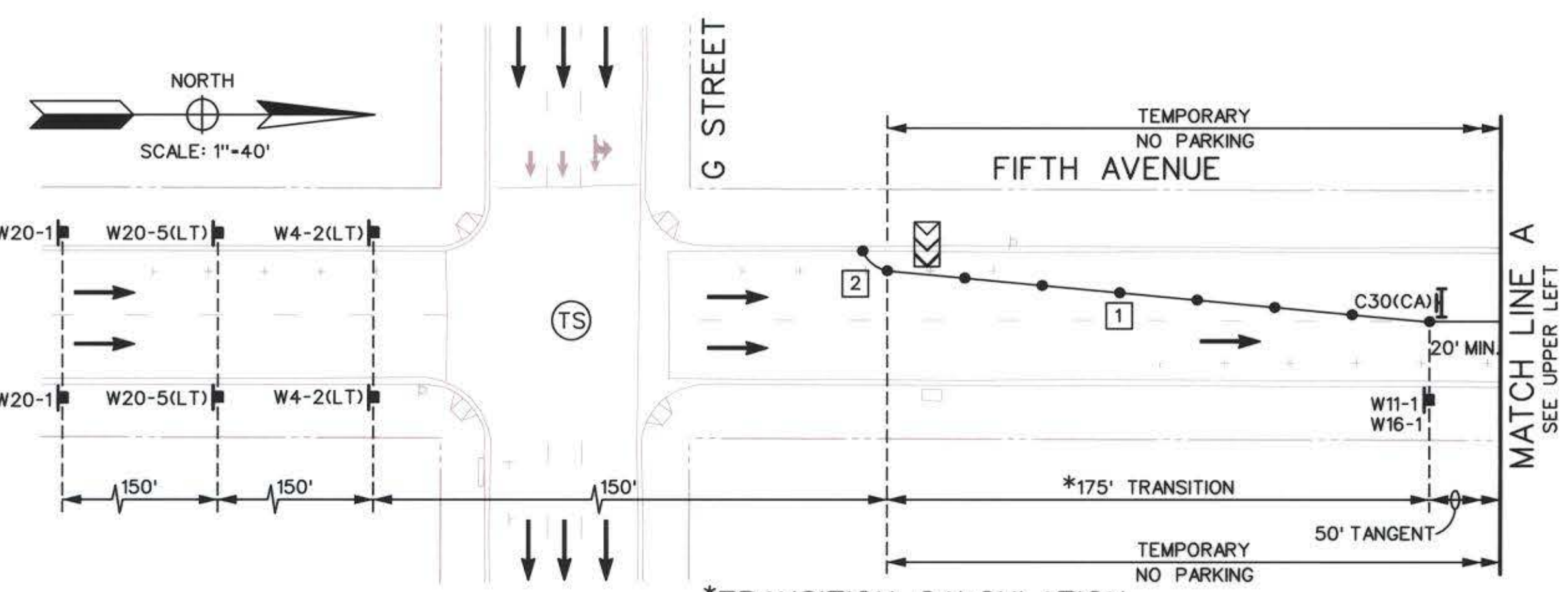
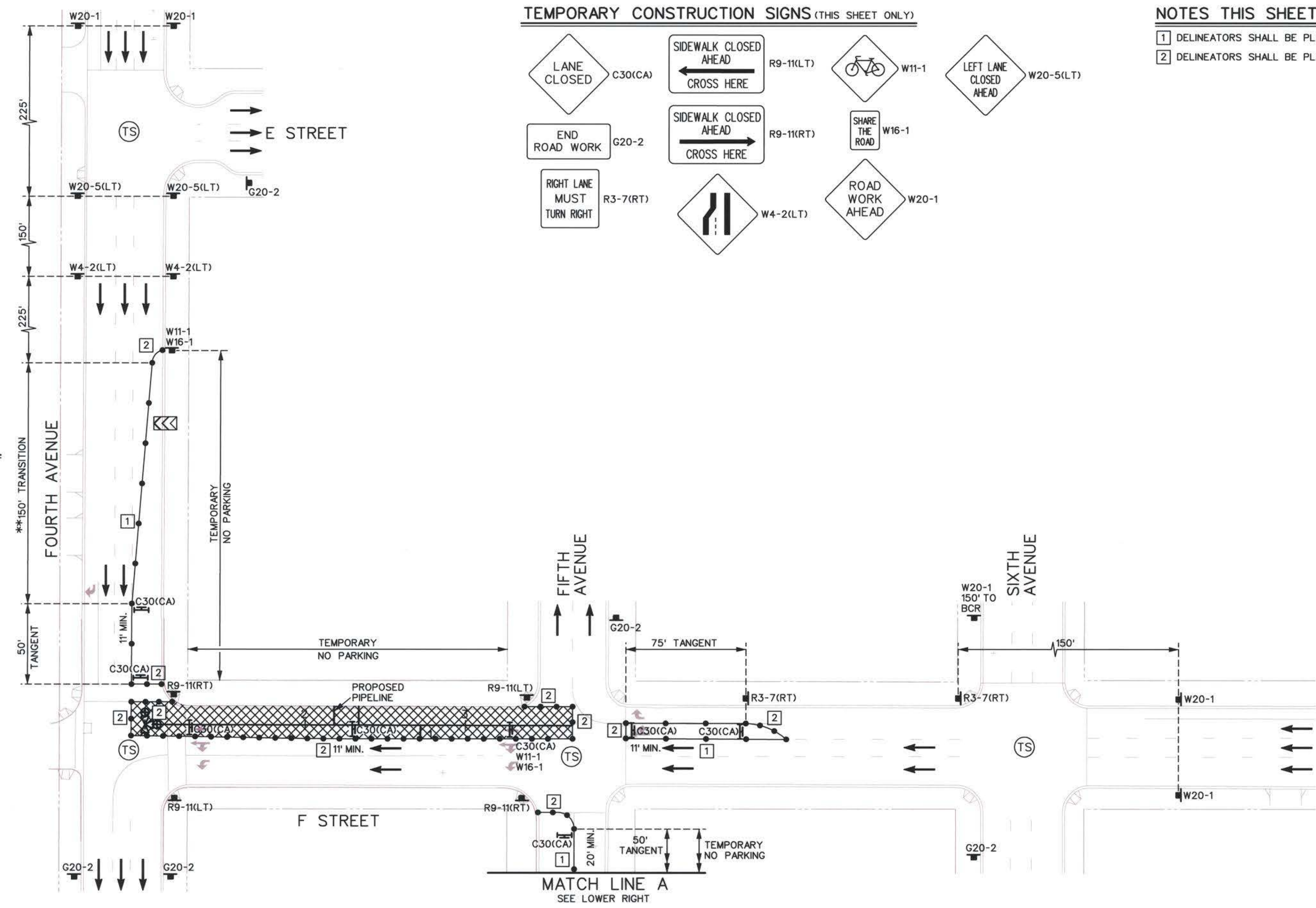
PIPELINE CONSTRUCTION  
WORK HOURS 9:00 AM TO 4:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
TRAFFIC SIGNAL TO REMAIN OPERATIONAL

\*\*TRANSITION CALCULATION

$$L = \frac{(W)(S)^2}{60} = \frac{(13)(25)^2}{60} = 135 \text{ FT}$$

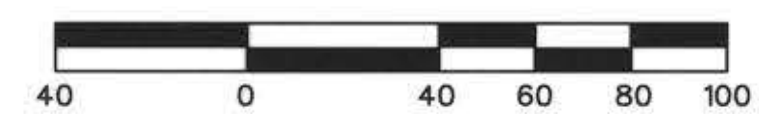
USE 150 FT



\*TRANSITION CALCULATION

$$L = \frac{(W)(S)^2}{60} = \frac{(16)(25)^2}{60} = 167 \text{ FT}$$

USE 175 FT



DECLARATION OF RESPONSIBLE CHARGE

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

ENGINEER OF WORK

*John P. Keating*  
JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



LINSCOTT, LAW & GREENSPAN, ENGINEERS  
4542 Ruffner Street, Suite 100  
San Diego, Ca 92111  
(858)300-8800 (PH) (858)300-8810 (FX)

NOTE

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-9

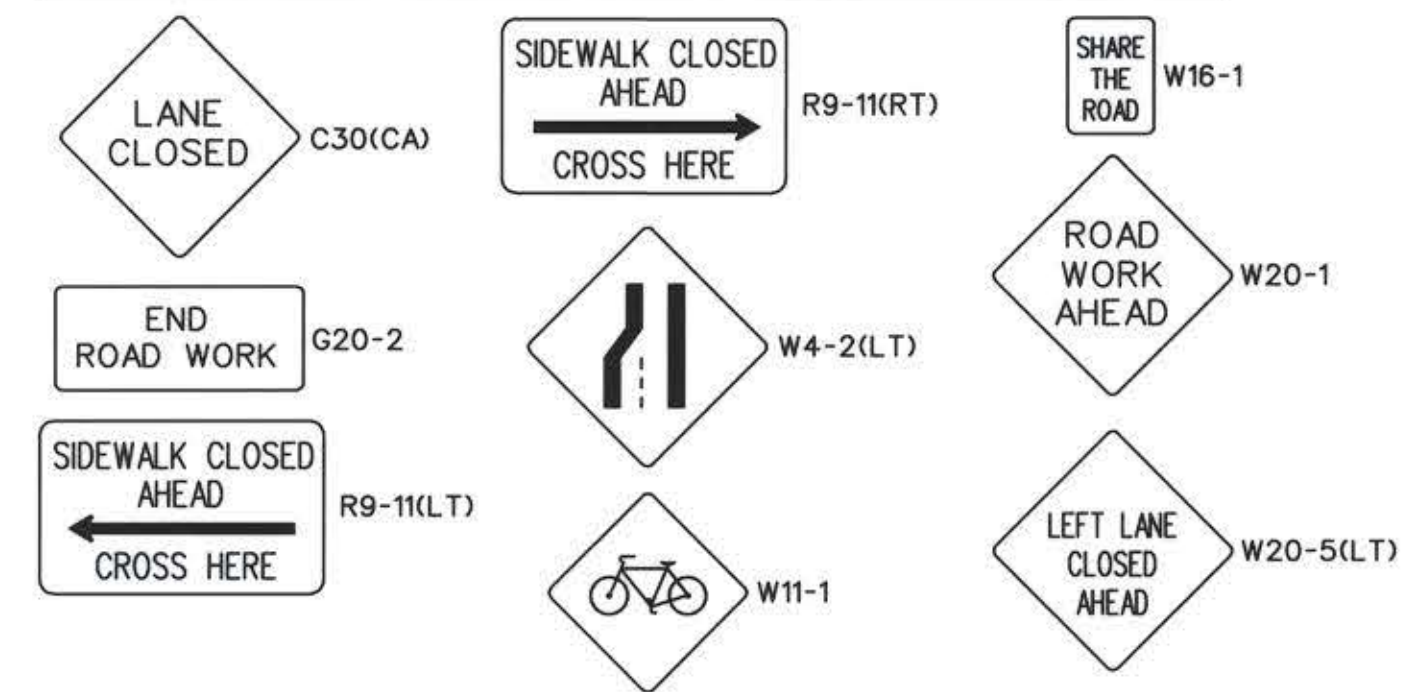
TRAFFIC CONTROL PLANS FOR:			
<b>SEWER AND WATER GROUP JOB 957</b>			
<b>F STREET</b>			
(STAGE B)			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 9 OF 54 SHEETS		WATER WBS B-1154 SEWER WBS B-1152	
APPROVED BY: <i>David Housh</i>	DATE: 12/17/2012	DESIGNED BY: JIM HAGGIOUY	ASSOCIATE ENGINEER
FOR CITY ENGINEER		CHECKED BY: BRIAN VITELLE	PROJECT ENGINEER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	LLG		
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED		
			36689-T09-D

TRAFFIC CONTROL DESIGN SPEED

F STREET = 25 MPH  
FOURTH AVENUE = 25 MPH  
FIFTH AVENUE = 25 MPH



TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)

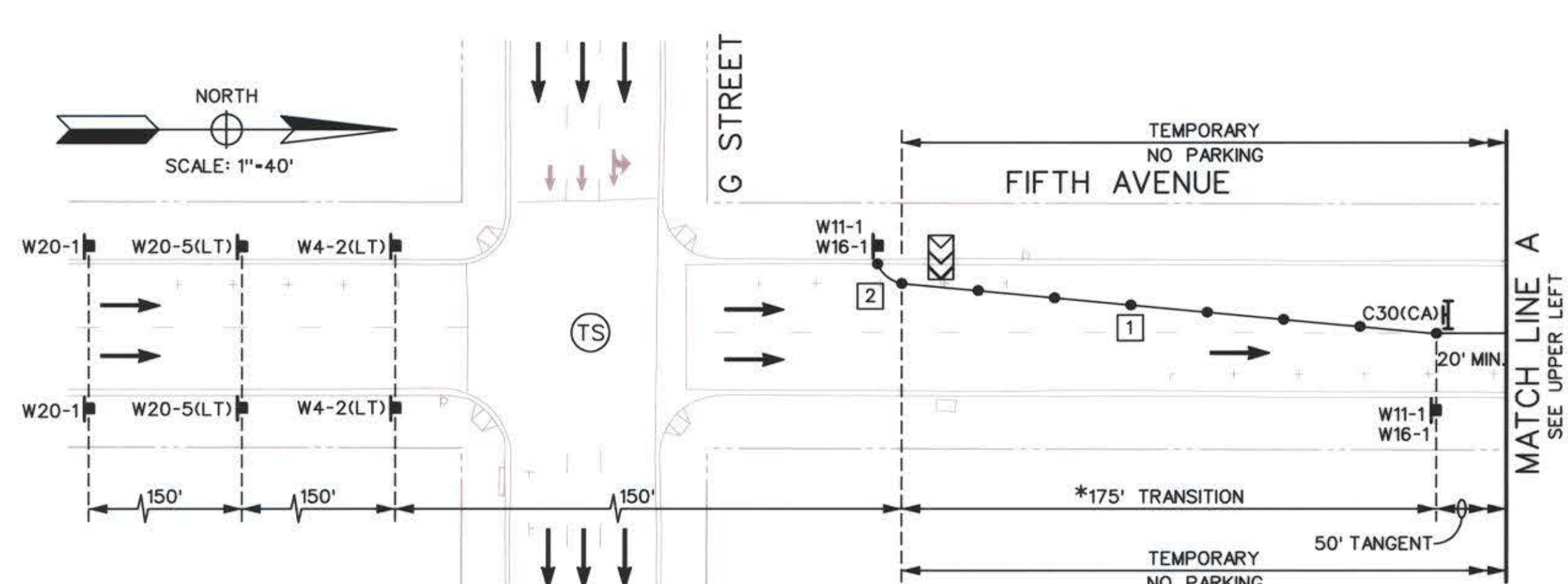
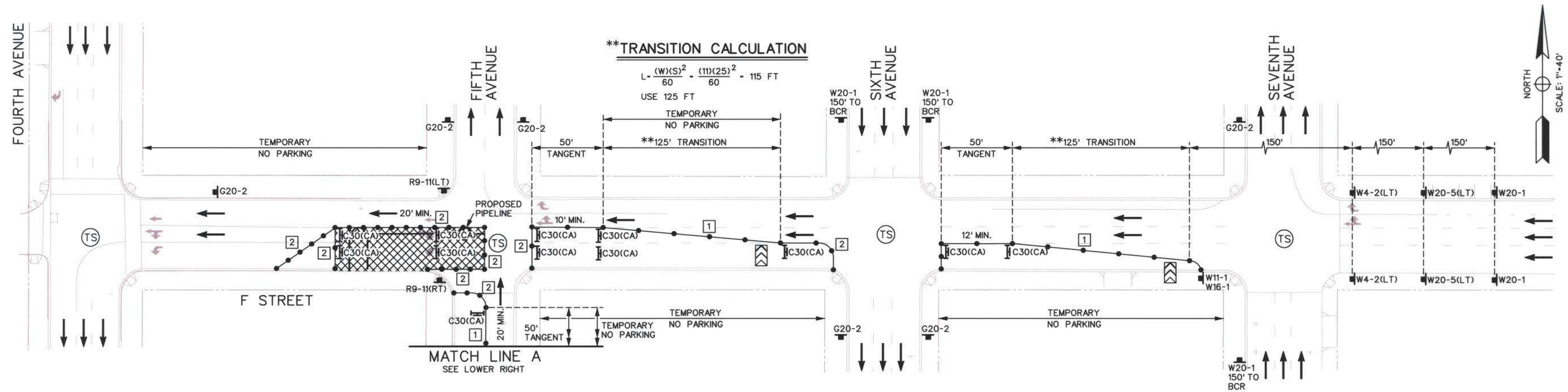


NOTES THIS SHEET

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

PIPELINE CONSTRUCTION  
WORK HOURS 9:00 AM TO 4:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**\*\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(11)(25)^2}{60} = 115 \text{ FT}$$

USE 125 FT

**\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(16)(25)^2}{60} = 167 \text{ FT}$$

USE 175 FT

DECLARATION OF RESPONSIBLE CHARGE

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

ENGINEER OF WORK

*John P. Keating*  
JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



LINSCOTT, LAW & GREENSPAN, ENGINEERS  
4542 Ruffner Street, Suite 100  
San Diego, Ca 92111  
(858)300-8800 (PH) (858)300-8810 (FX)



TRAFFIC CONTROL DESIGN SPEED  
F STREET = 25 MPH  
FIFTH AVENUE = 25 MPH

NOTE

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-10

TRAFFIC CONTROL PLANS FOR:

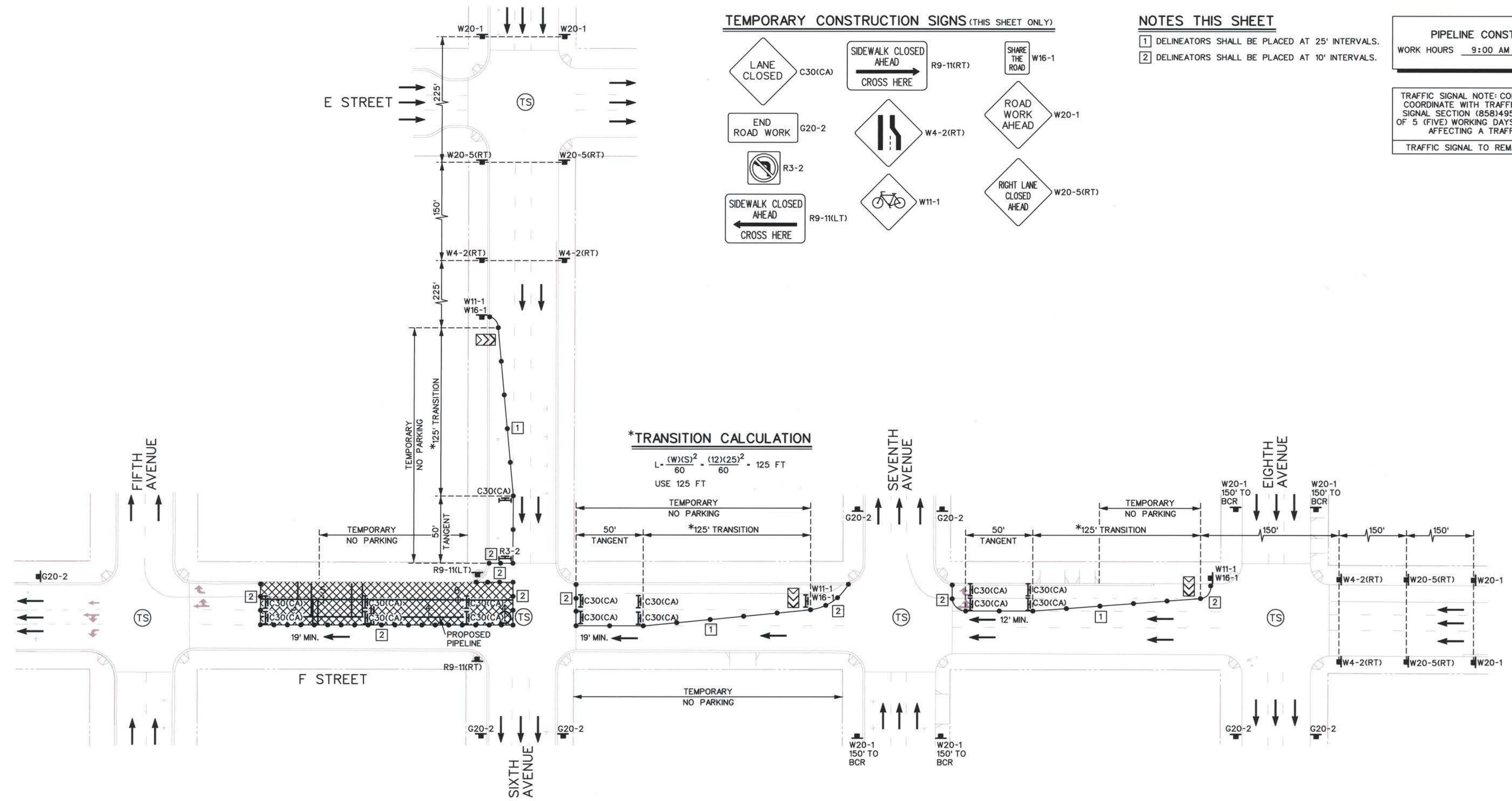
**SEWER AND WATER GROUP JOB 957  
F STREET  
(STAGE 9)**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 10 OF 54 SHEETS	WATER WBS B-1154 SEWER WBS B-1152
APPROVED BY: <i>Abraham Albrecht</i> 12/17/2012 FOR CITY ENGINEER DATE	DESIGNED BY: JIM HAGGOLY ASSOCIATE ENGINEER
DESCRIPTION BY APPROVED DATE FILMED	CHECKED BY: BRIAN VITELLE PROJECT ENGINEER
ORIGINAL LLG	SEE CIVIL SHEETS CCS27 COORDINATE
	SEE CIVIL SHEETS CCS83 COORDINATE
CONTRACTOR INSPECTOR	DATE STARTED DATE COMPLETED
	36689-T10-D

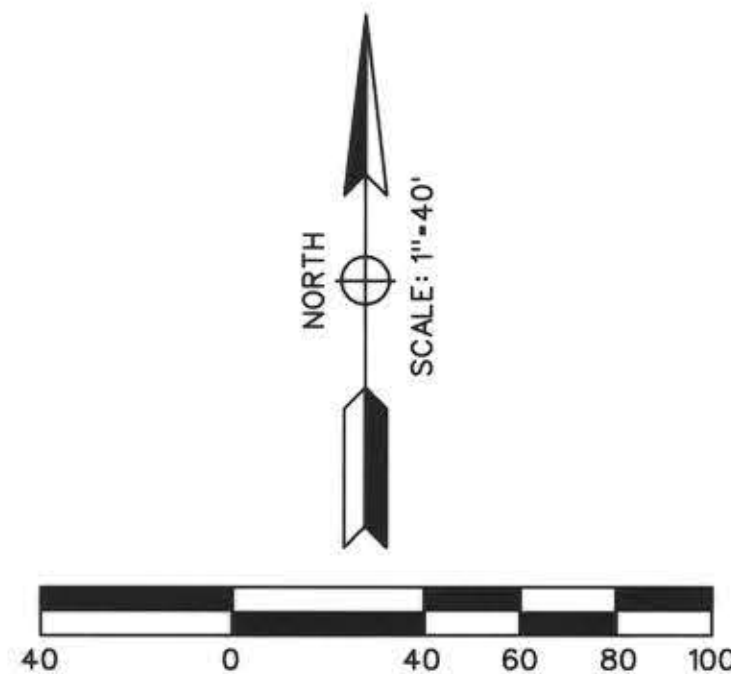








**TRAFFIC CONTROL DESIGN SPEED**  
 F STREET = 25 MPH  
 SIXTH AVENUE = 25 MPH



**DECLARATION OF RESPONSIBLE CHARGE**

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

**ENGINEER OF WORK**

*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1	TC12-6350-49STG11.DGN	11/19/12
Designed By: JSM	Drawn By: DVS	Checked By: JPK

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-12

TRAFFIC CONTROL PLANS FOR:		WATER WBS B-11154	
SEWER AND WATER GROUP JOB 957		SEWER WBS B-11152	
F STREET			
(STAGE 11)			
CITY OF SAN DIEGO, CALIFORNIA		ENGINEERING AND CAPITAL PROJECTS DEPARTMENT	
SHEET 12 OF 54 SHEETS		APPROVED BY: <i>John P. Keating</i> 12/17/2012	
FOR CITY ENGINEER	DATE	CHECKED BY:	JIM HAHGOLY
DESCRIPTION	BY	APPROVED	ASSOCIATE ENGINEER
ORIGINAL	LLG		BRIAN VITELLE
			PROJECT ENGINEER
			SEE CIVIL SHEETS
			CCS27 COORDINATE
			SEE CIVIL SHEETS
			CCS83 COORDINATE
CONTRACTOR	DATE STARTED	36689-T12-D	
INSPECTOR	DATE COMPLETED		



TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.

TRAFFIC SIGNAL SHALL BE SET TO RED FLASH AT F STREET/SIXTH STREET INTERSECTION

ALL OTHER TRAFFIC SIGNALS TO REMAIN OPERATIONAL AT OTHER INTERSECTIONS

**\*\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(2)(25)^2}{60} = 21 \text{ FT}$$

L/2 = 11 FT, USE 25 FT

**\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(12)(25)^2}{60} = 125 \text{ FT}$$

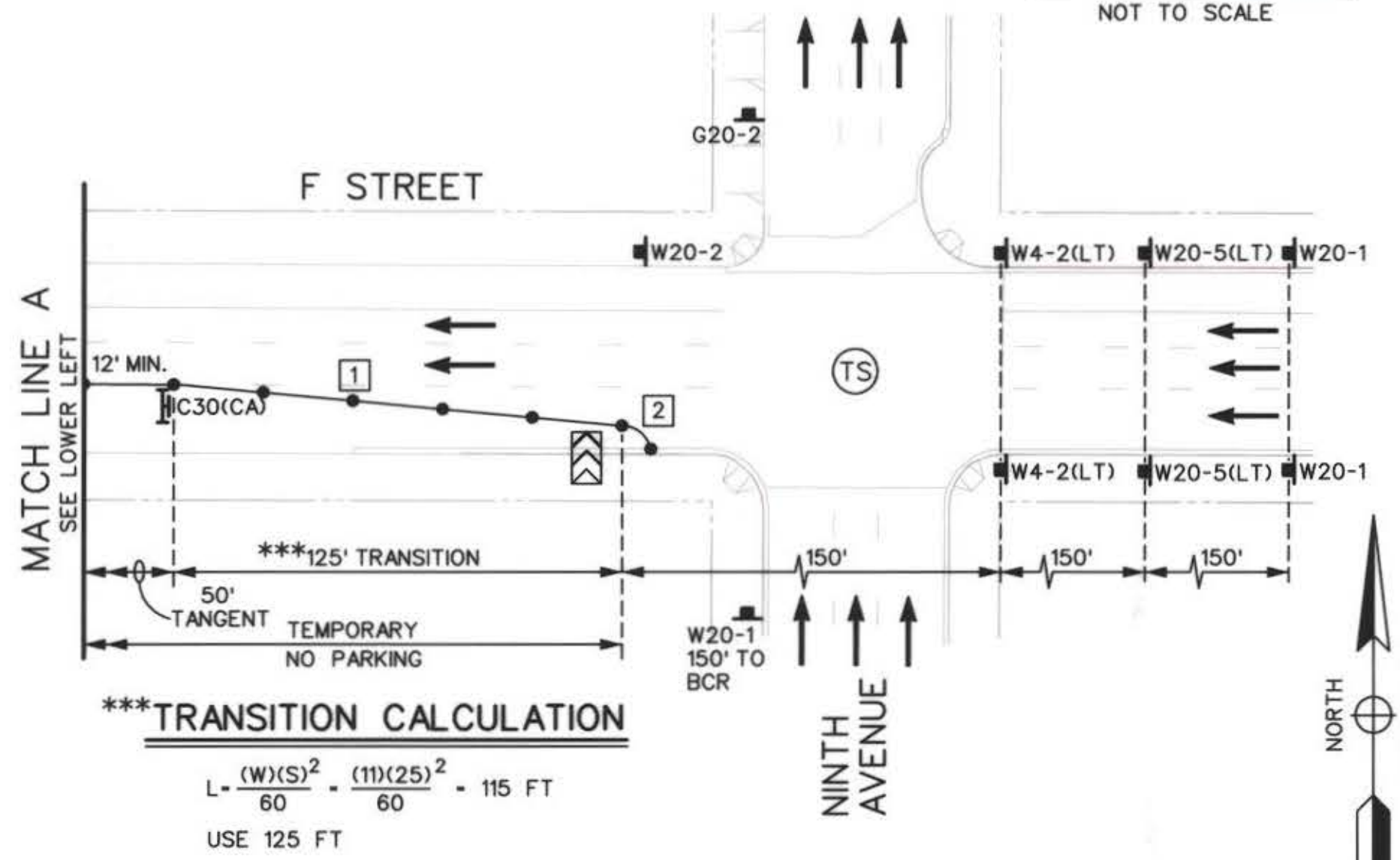
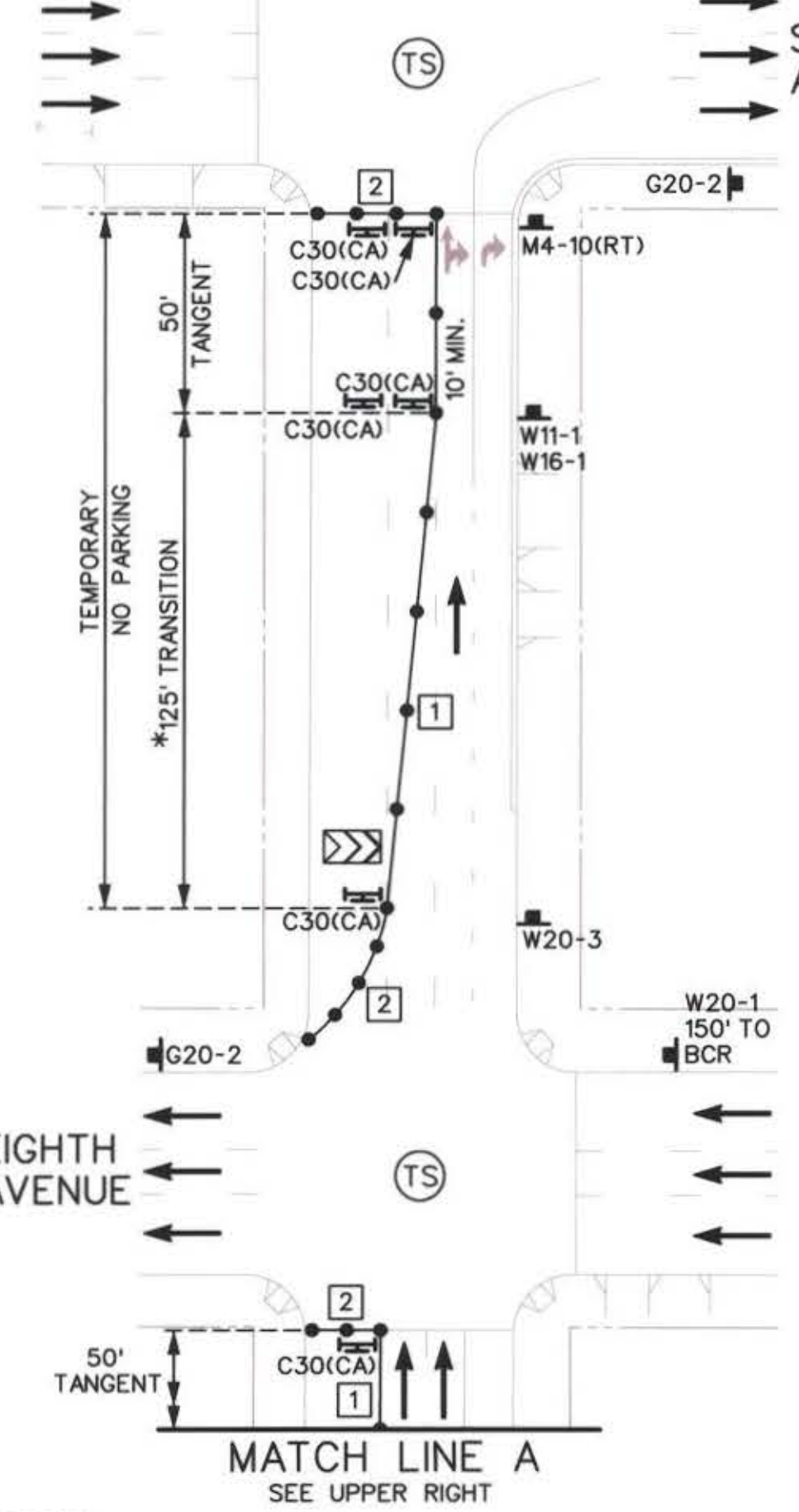
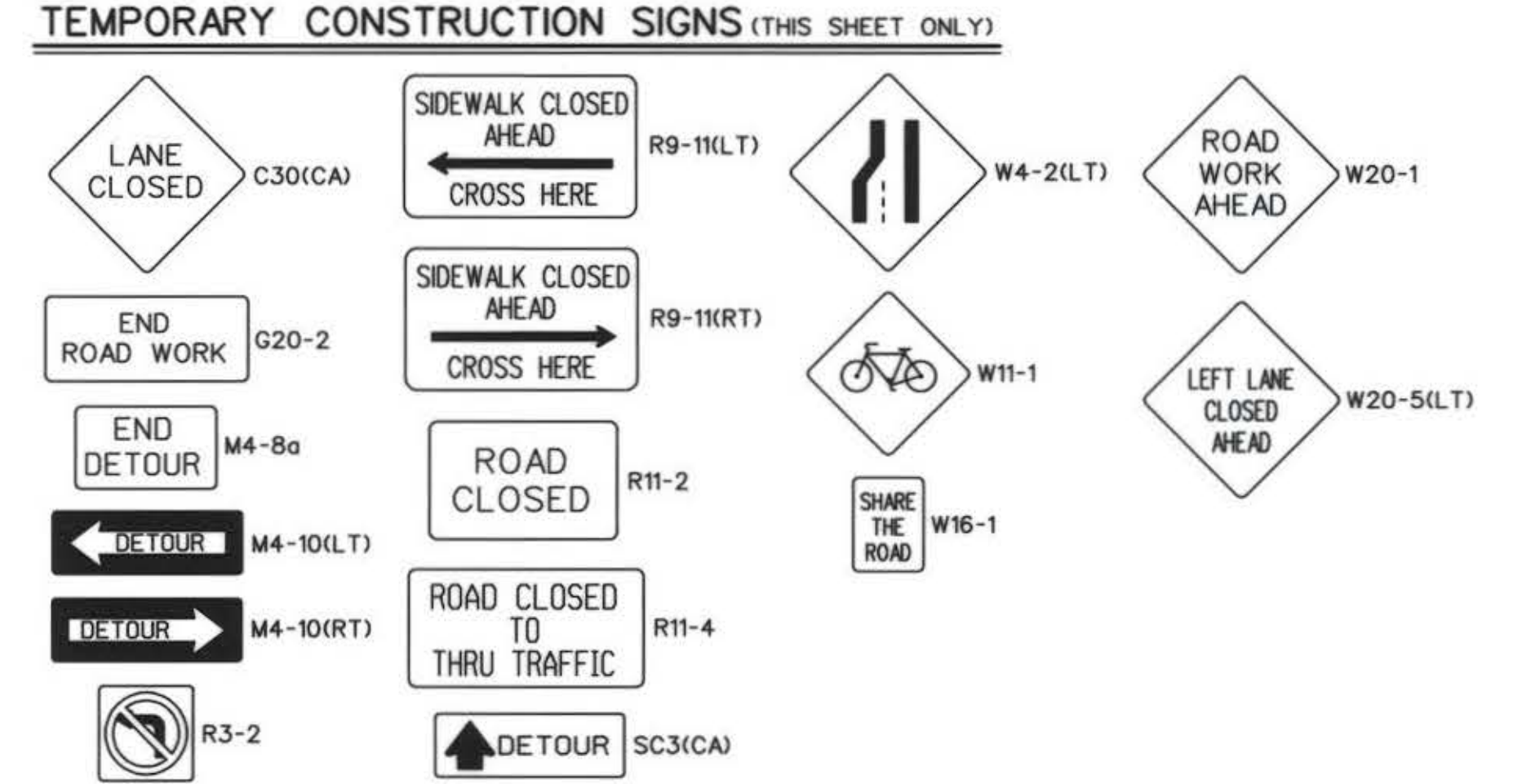
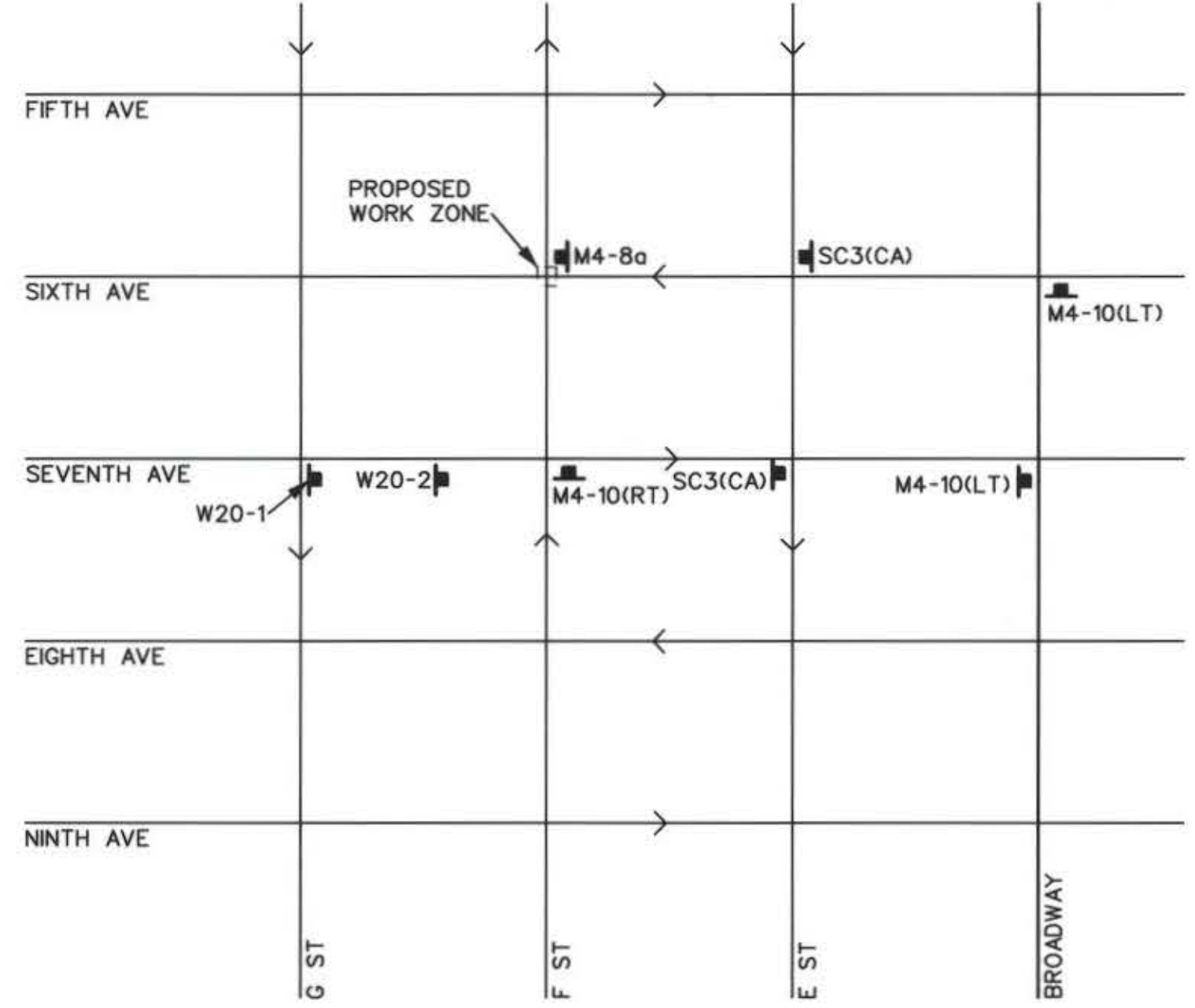
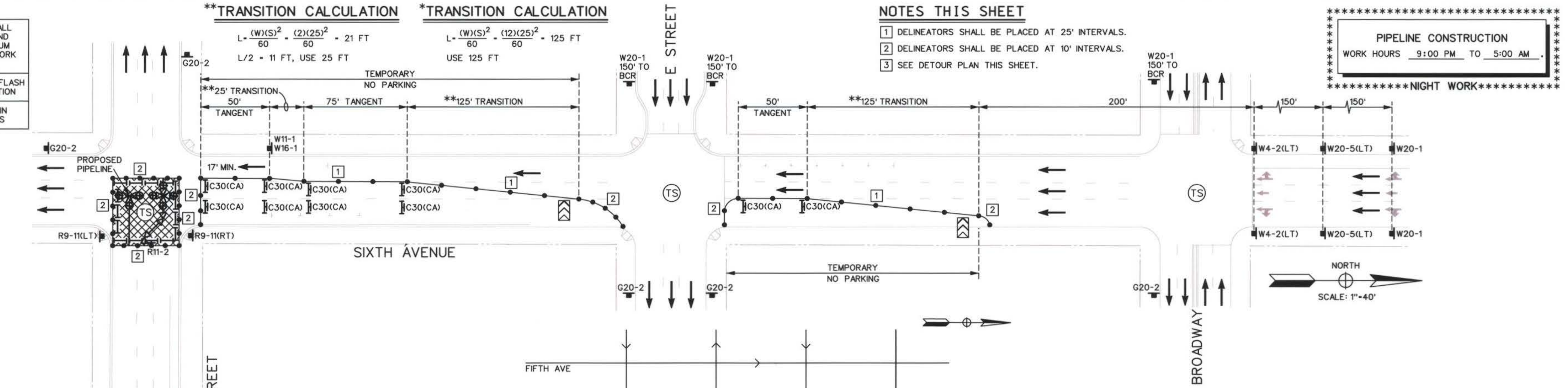
USE 125 FT

- NOTES THIS SHEET**
- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
  - 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.
  - 3 SEE DETOUR PLAN THIS SHEET.

\*\*\*\*\*NIGHT WORK\*\*\*\*\*

PIPELINE CONSTRUCTION

WORK HOURS 9:00 PM TO 5:00 AM



**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

**ENGINEER OF WORK**

JOHN P. KEATING R.C.E. 43595 DATE 11/17/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
4542 Ruffner Street, Suite 100  
San Diego, Ca 92111  
(858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC13-6350-49STG12.DGN 11/19/12  
Designed By: JSM Drawn By: DVS Checked By: JPK

**TRAFFIC CONTROL DESIGN SPEED**  
SIXTH AVENUE = 25 MPH

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957**  
F STREET  
(STAGE 12)

CITY OF SAN DIEGO, CALIFORNIA	WATER WBS	B-11154
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT	SEWER WBS	B-11152
SHEET 13 OF 54 SHEETS		

FOR CITY ENGINEER	DATE	12/17/2012
DESCRIPTION	BY	APPROVED
ORIGINAL	LLG	

DATE	FILED

CONTRACTOR: 36689-T13-D  
INSPECTOR: DATE STARTED: DATE COMPLETED:

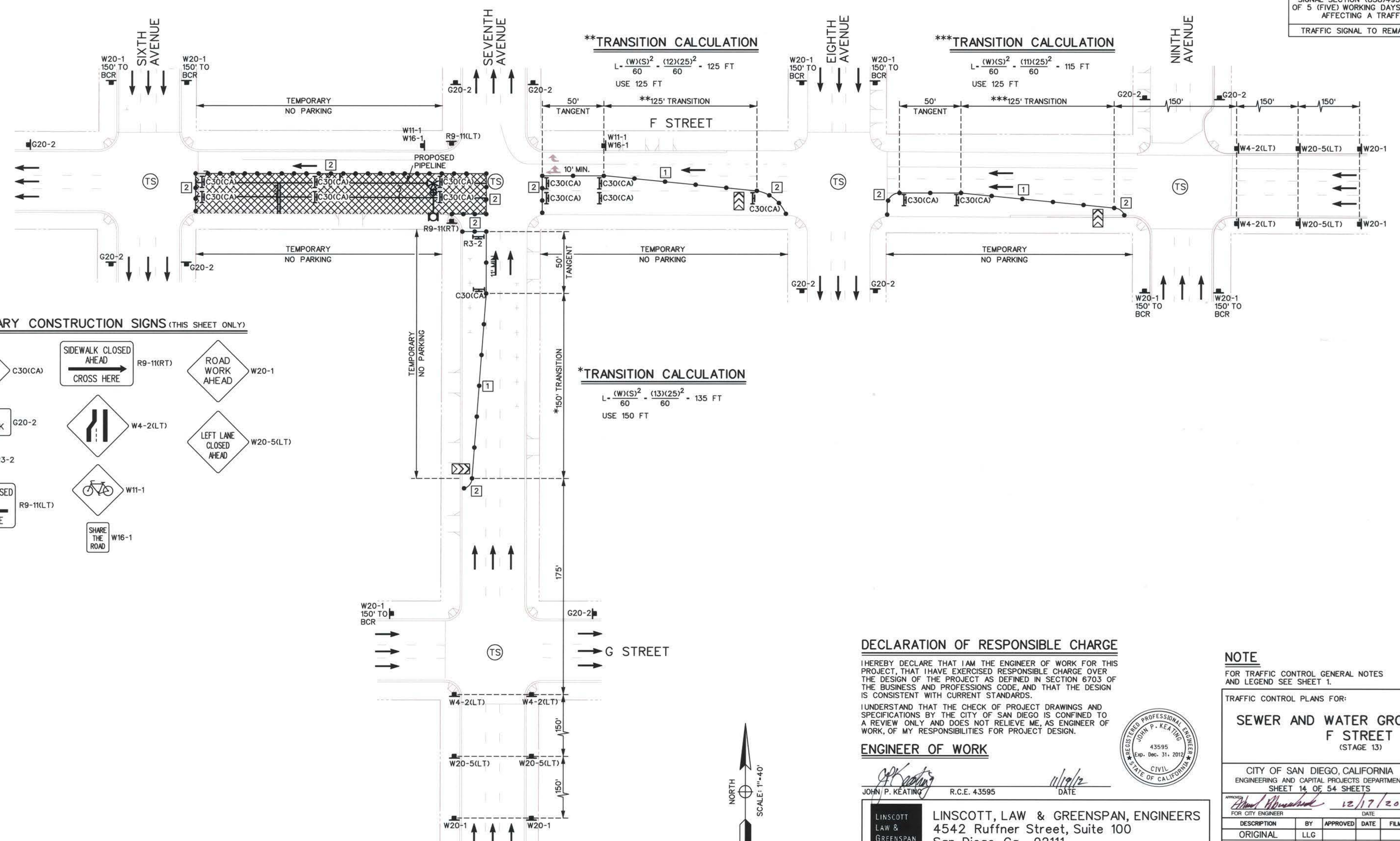


**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 9:00 AM TO 4:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL

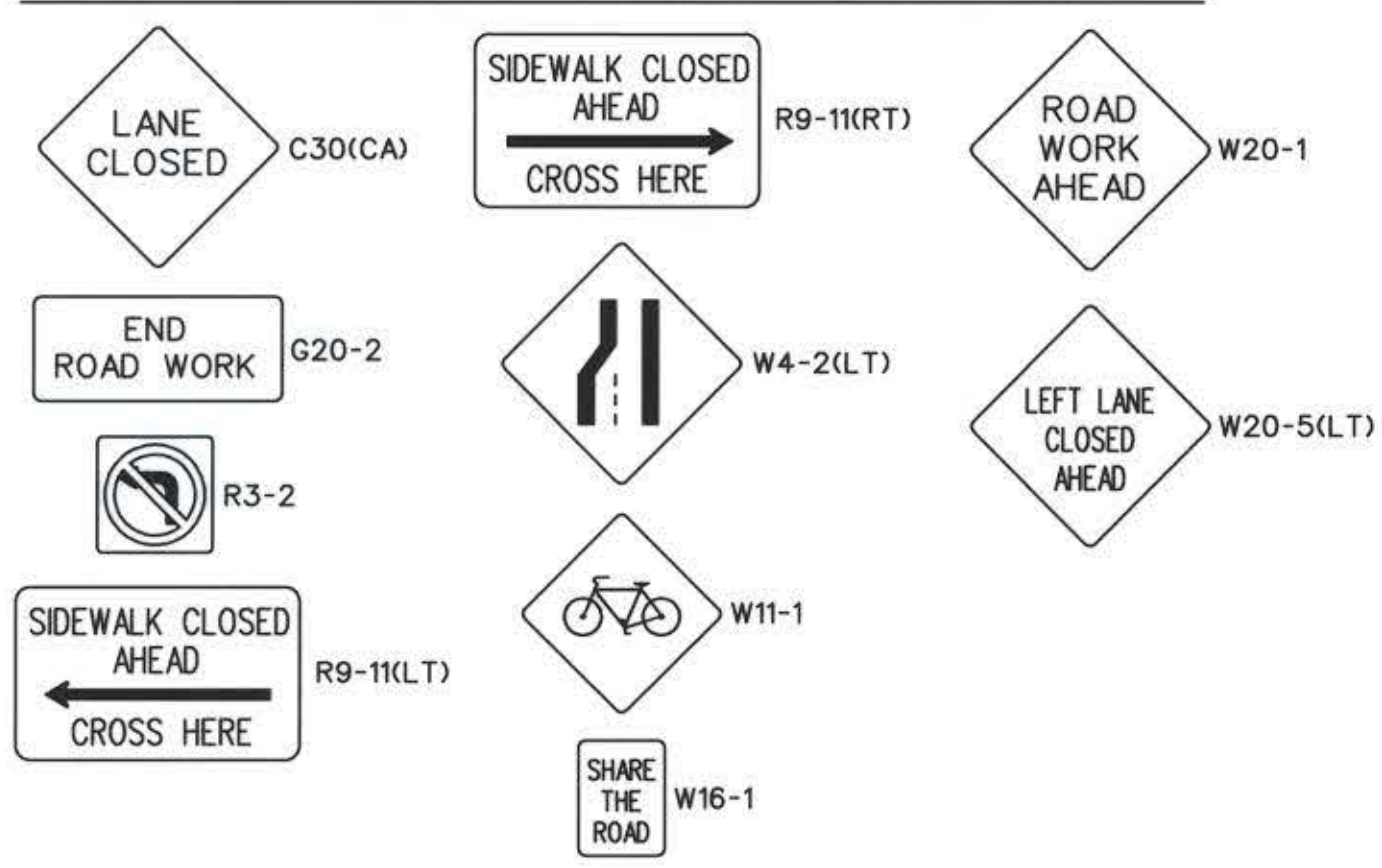


**\*\*TRANSITION CALCULATION**  
 $L = \frac{(W)(S)^2}{60} = \frac{(12)(25)^2}{60} = 125 \text{ FT}$   
 USE 125 FT

**\*\*\*TRANSITION CALCULATION**  
 $L = \frac{(W)(S)^2}{60} = \frac{(11)(25)^2}{60} = 115 \text{ FT}$   
 USE 125 FT

**\*TRANSITION CALCULATION**  
 $L = \frac{(W)(S)^2}{60} = \frac{(13)(25)^2}{60} = 135 \text{ FT}$   
 USE 150 FT

**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**



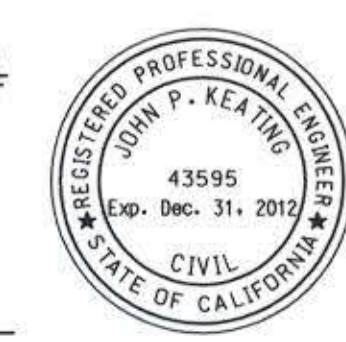
**TRAFFIC CONTROL DESIGN SPEED**  
 F STREET = 25 MPH  
 SEVENTH AVENUE = 25 MPH

**DECLARATION OF RESPONSIBLE CHARGE**

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

**ENGINEER OF WORK**

JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC14-6350-495TG13.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET T-14

TRAFFIC CONTROL PLANS FOR:

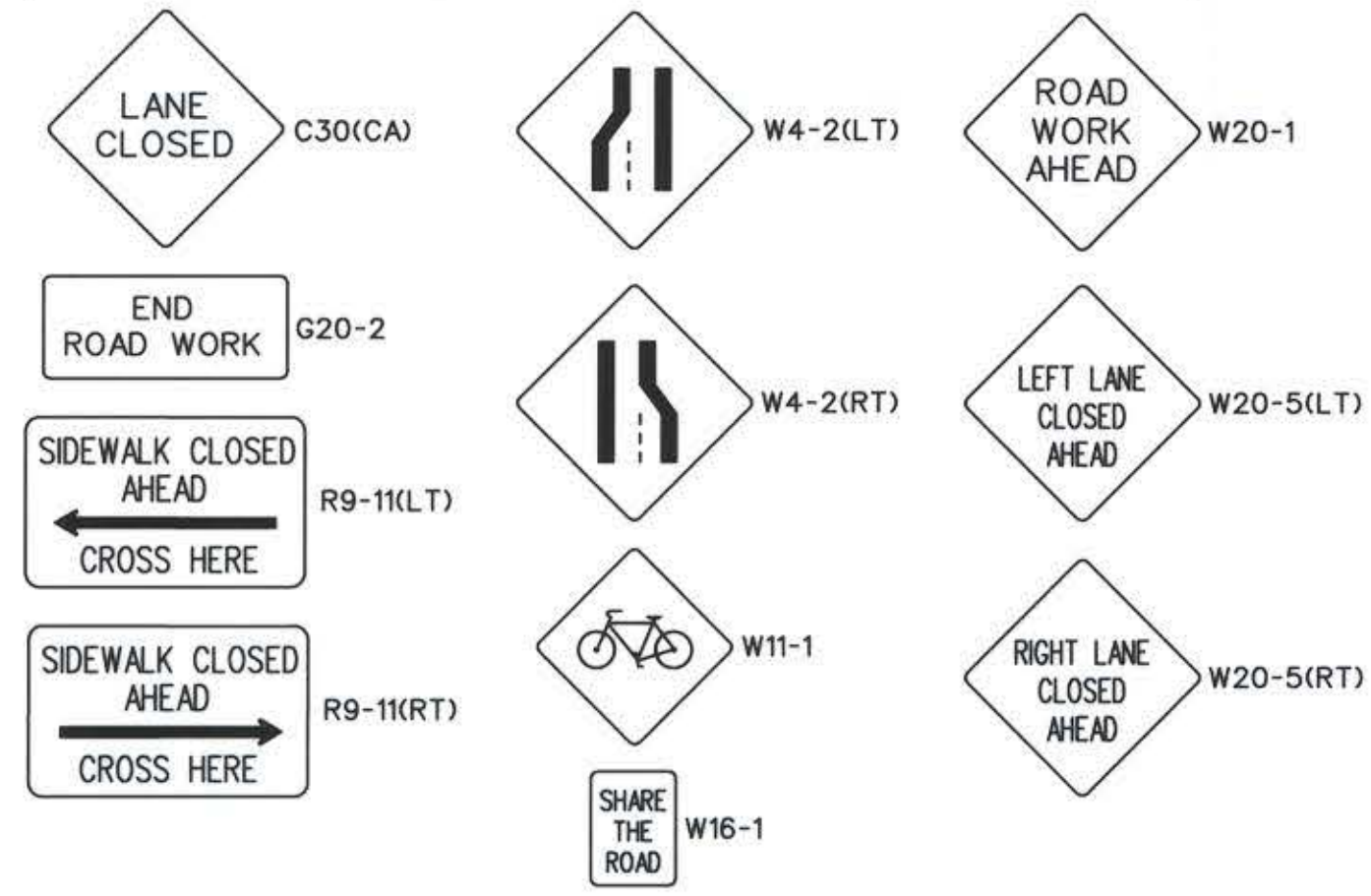
**SEWER AND WATER GROUP JOB 957**  
**F STREET**  
 (STAGE 13)

CITY OF SAN DIEGO, CALIFORNIA		WATER WBS	B-1154
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT		SEWER WBS	B-1152
SHEET 14 OF 54 SHEETS		APPROVED BY:	JIM HAGGOLY
FOR CITY ENGINEER	DATE	CHECKED BY:	BRIAN VITELLE
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	LLG		
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED		

36689-T14-D



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**

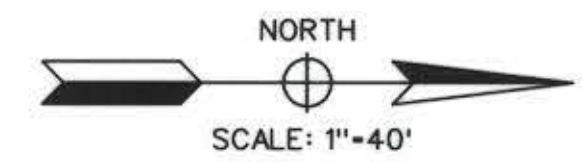
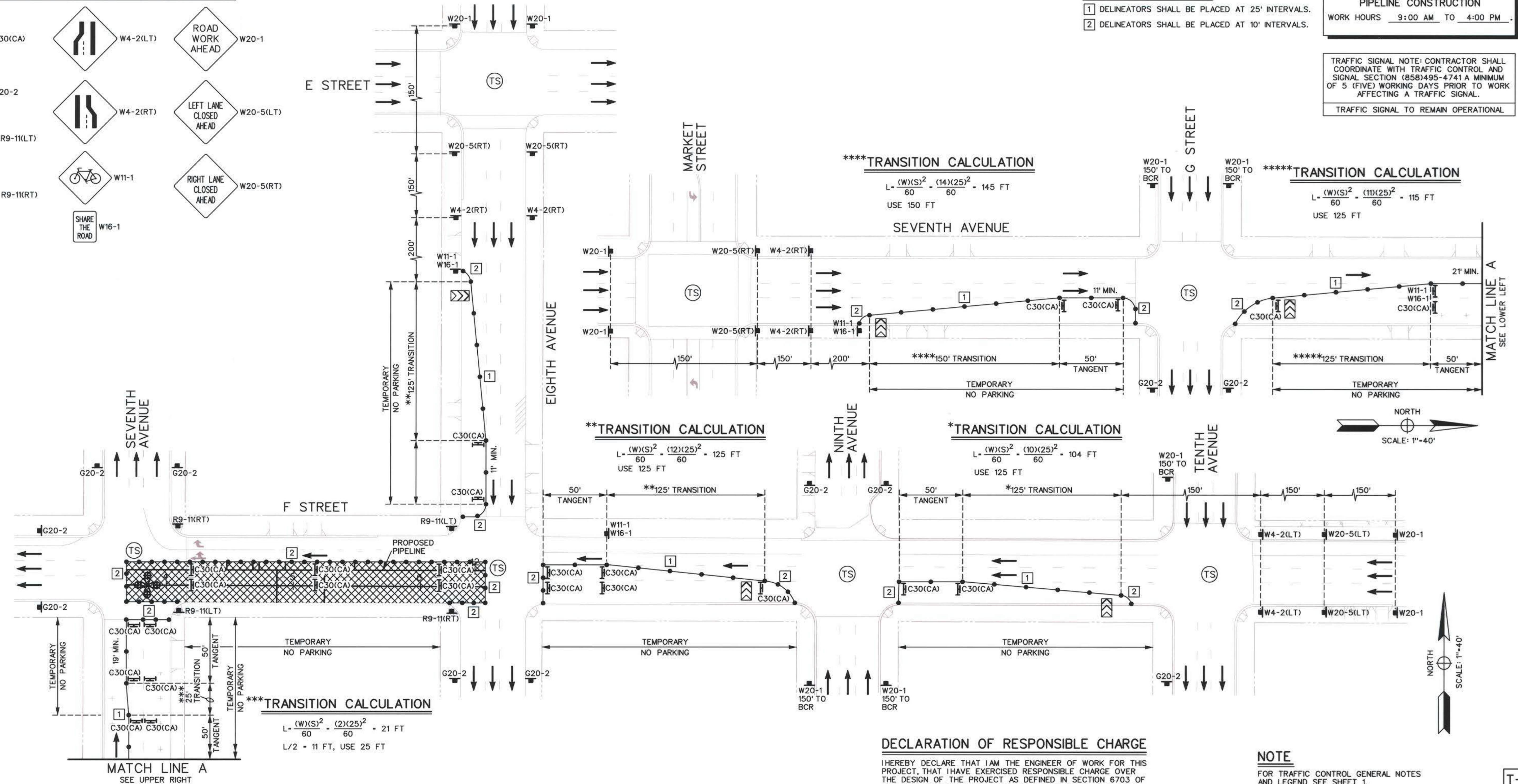


**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 9:00 AM TO 4:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL

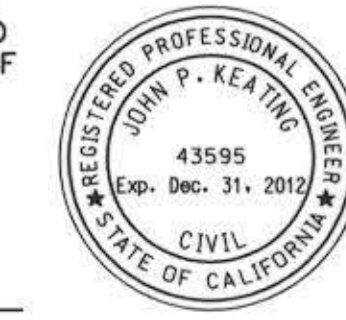


**DECLARATION OF RESPONSIBLE CHARGE**

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

**ENGINEER OF WORK**

*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC15-6350-49STG14.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK

**NOTE**

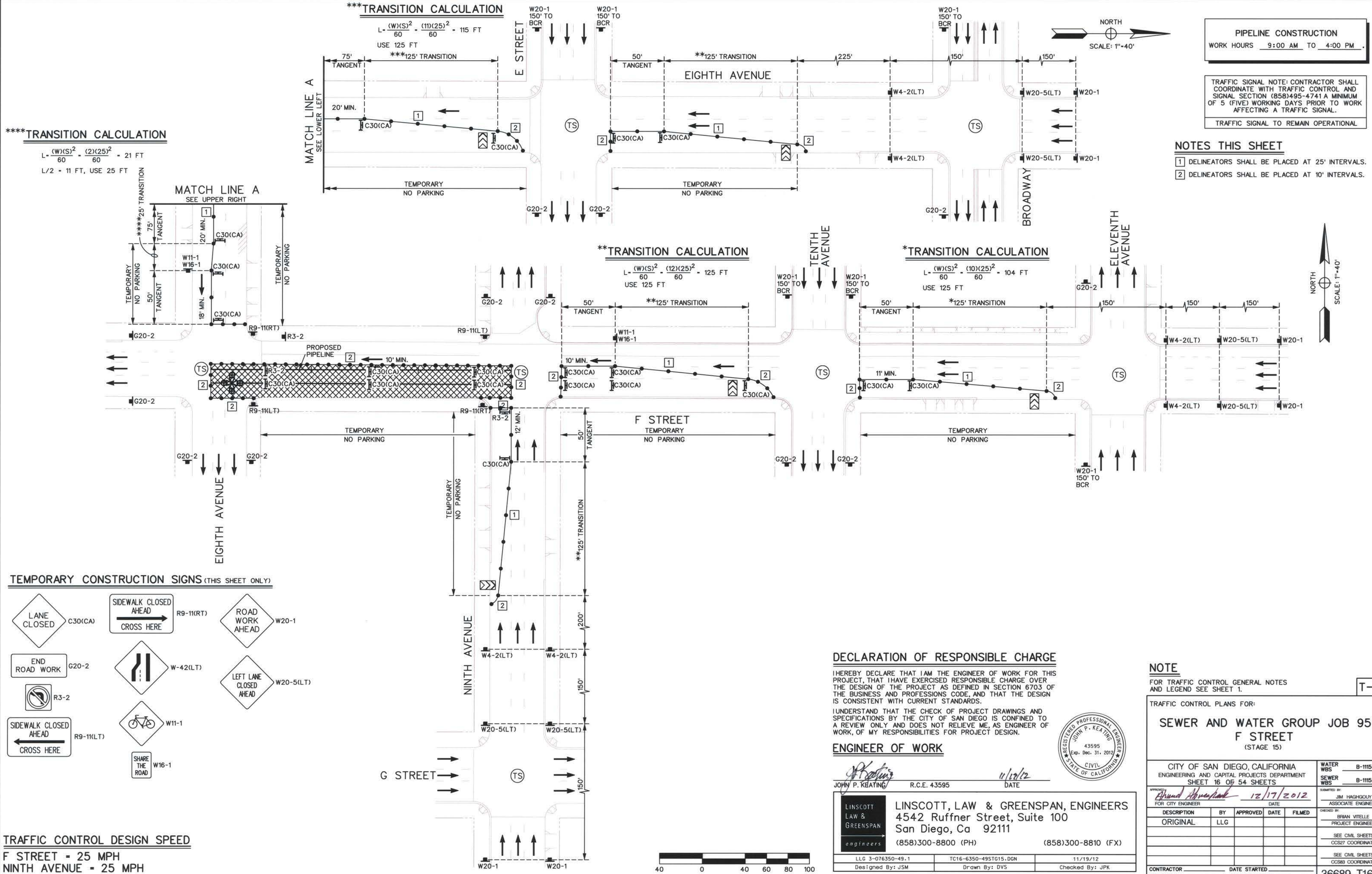
FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1. T-15

TRAFFIC CONTROL PLANS FOR:			
<b>SEWER AND WATER GROUP JOB 957</b>			
<b>F STREET</b>			
(STAGE 1A)			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 15 OF 54 SHEETS		WATER WBS B-1154 SEWER WBS B-1152	
APPROVED BY: <i>John P. Keating</i> FOR CITY ENGINEER	DATE: 12/17/2012	DRAWN BY: JIM HUGHGOLY ASSOCIATE ENGINEER	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	LLG		
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED		
			36689-T15-D

**TRAFFIC CONTROL DESIGN SPEED**  
 F STREET = 25 MPH  
 EIGHTH AVENUE = 25 MPH



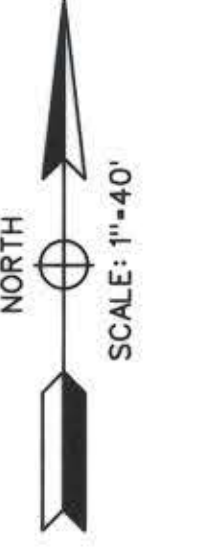
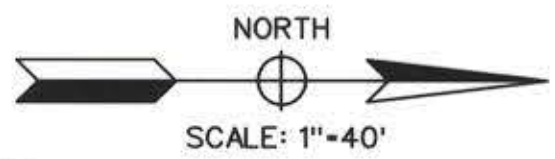




**PIPELINE CONSTRUCTION**  
 WORK HOURS 9:00 AM TO 4:00 PM

**TRAFFIC SIGNAL NOTE:** CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL

**NOTES THIS SHEET**  
 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.  
 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.



**DECLARATION OF RESPONSIBLE CHARGE**

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

**ENGINEER OF WORK**

JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC16-6350-49ST015.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1. T-16

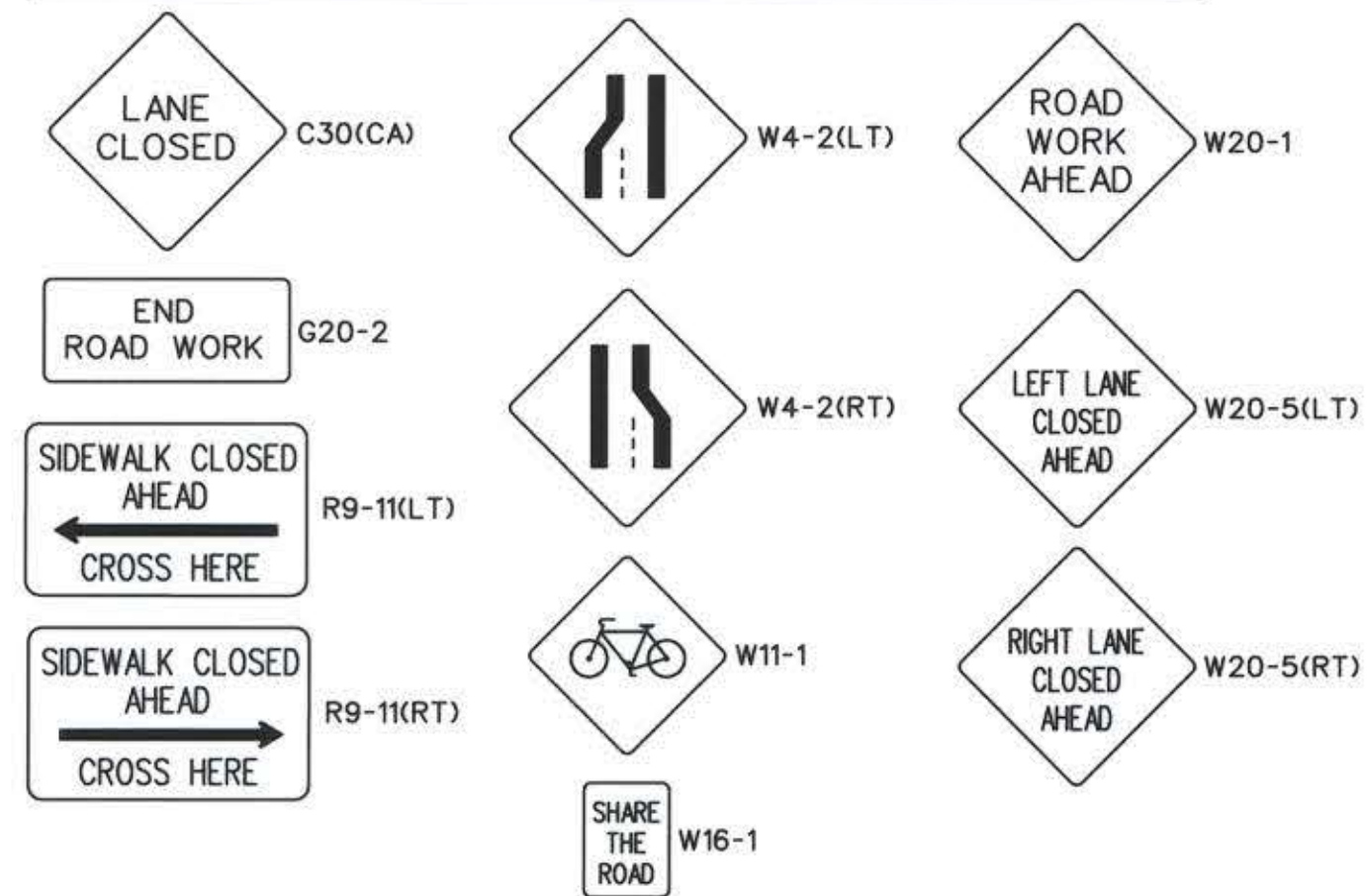
TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957**  
**F STREET**  
 (STAGE 15)

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 16 OF 54 SHEETS		WATER WBS B-1154 SEWER WBS B-1152
APPROVED BY: <i>Ehrend Abraham</i> 12/17/2012 FOR CITY ENGINEER	DATE	DRAWN BY: JIM HAGHGOLY ASSOCIATE ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	LLG	
		DATE
		FILMED
		SEE CIVIL SHEETS
		CCS27 COORDINATE
		SEE CIVIL SHEETS
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	36689-T16-D
INSPECTOR	DATE COMPLETED	



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**

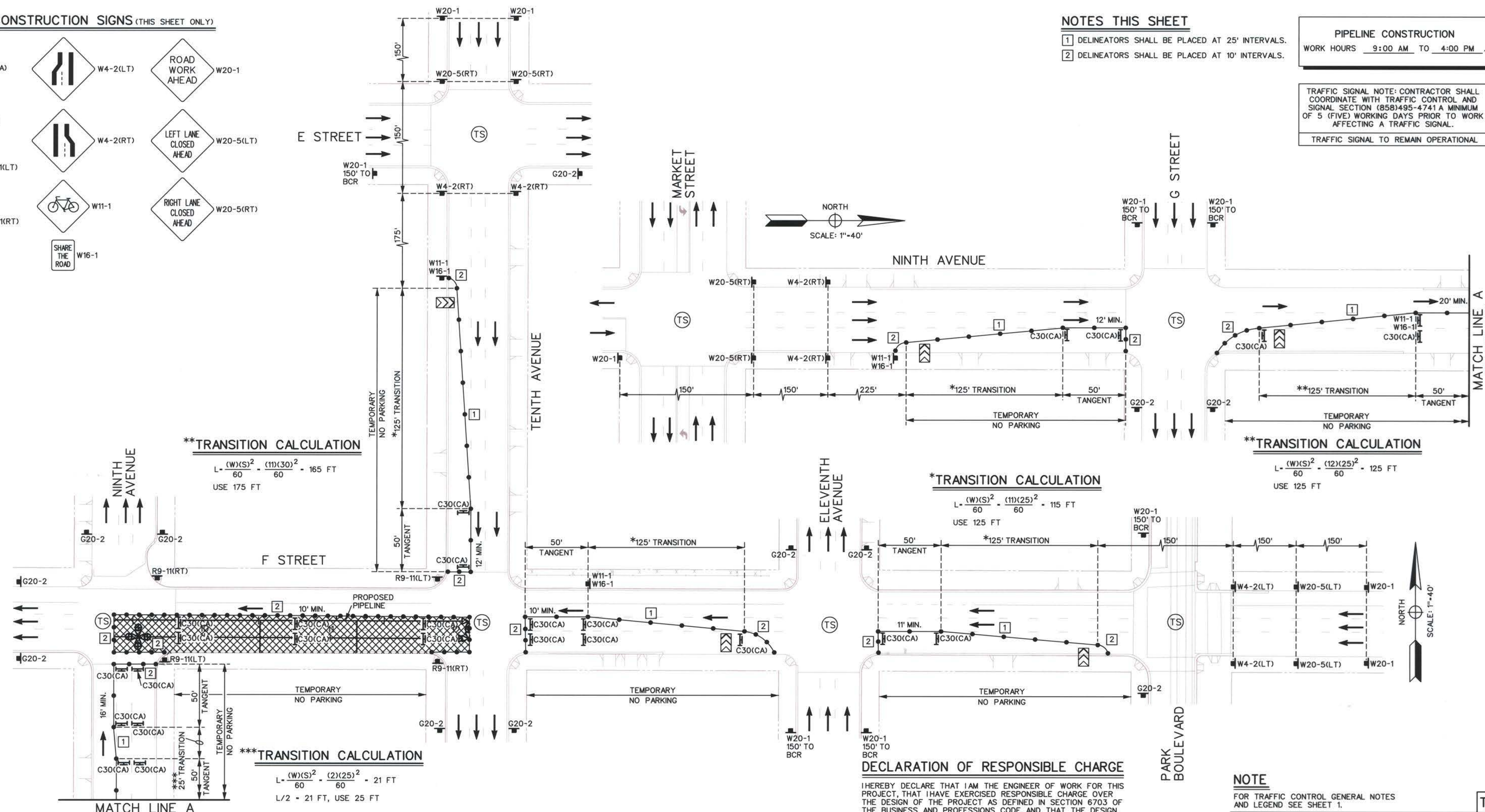


**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 9:00 AM TO 4:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



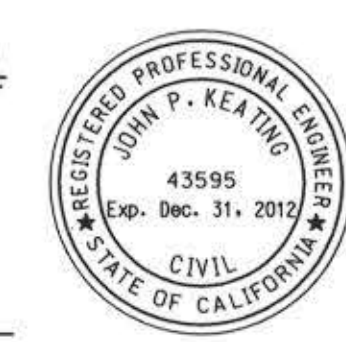
**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

**ENGINEER OF WORK**

*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC17-6350-49STG16.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK

**TRAFFIC CONTROL DESIGN SPEED**  
 F STREET = 25 MPH  
 NINTH AVENUE = 25 MPH  
 TENTH AVENUE = 30 MPH



**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957**  
**F STREET**  
 (STAGE 16)

CITY OF SAN DIEGO, CALIFORNIA		WATER WBS	B-1154
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT		SEWER WBS	B-1152
SHEET 17 OF 54 SHEETS		APPROVED BY:	JIM HAGGOLY
APPROVED FOR CITY ENGINEER	DATE	ASSOCIATE ENGINEER	
DESCRIPTION	BY	APPROVED DATE	FILMED
ORIGINAL	LLG		
		DESIGNED BY:	BRIAN VITELLE
		PROJECT ENGINEER	
		SEE CIVIL SHEETS	
		CCS27 COORDINATE	
		SEE CIVIL SHEETS	
		CCS80 COORDINATE	
CONTRACTOR	DATE STARTED	36689-T17-D	
INSPECTOR	DATE COMPLETED		

T-17

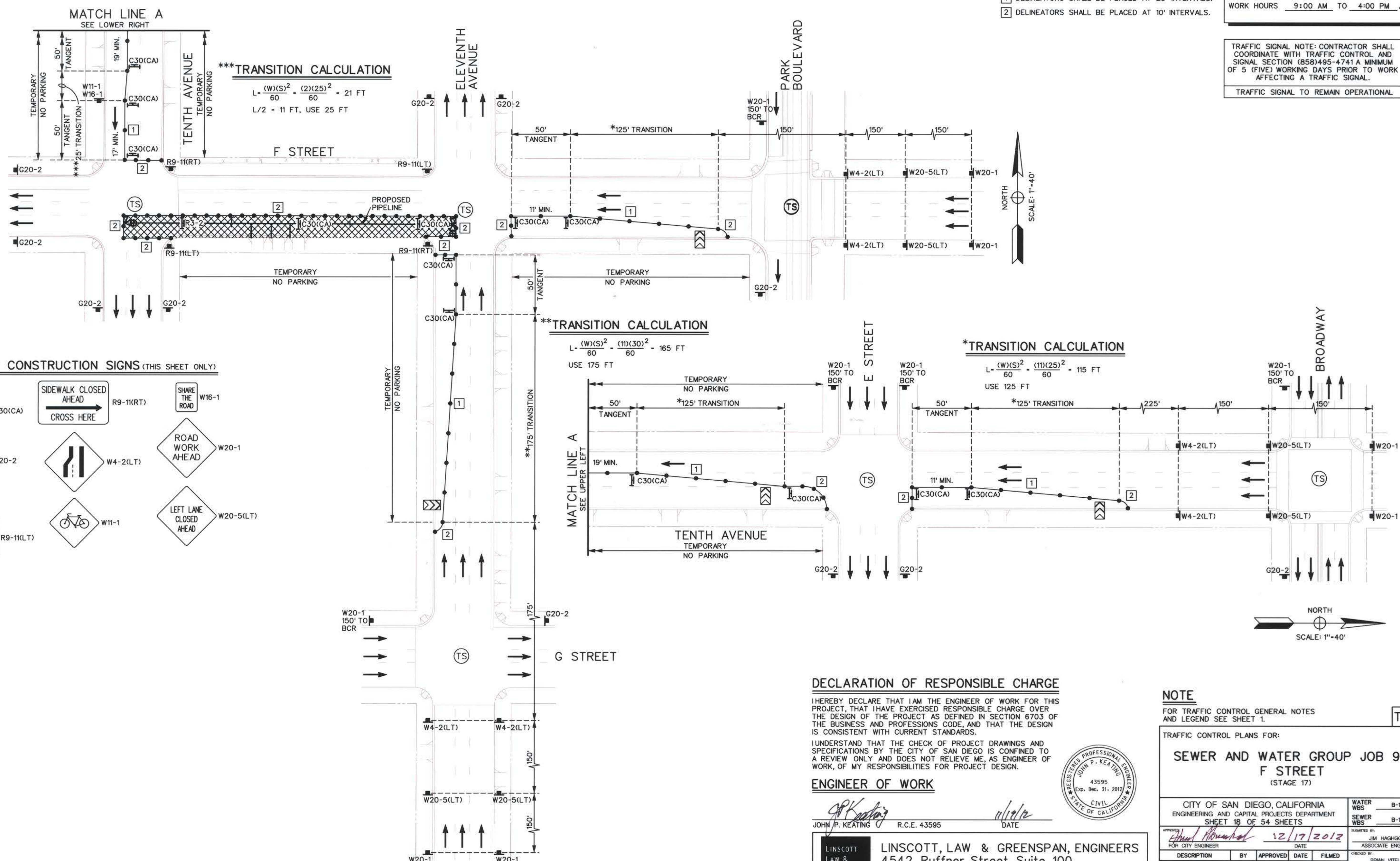


**NOTES THIS SHEET**

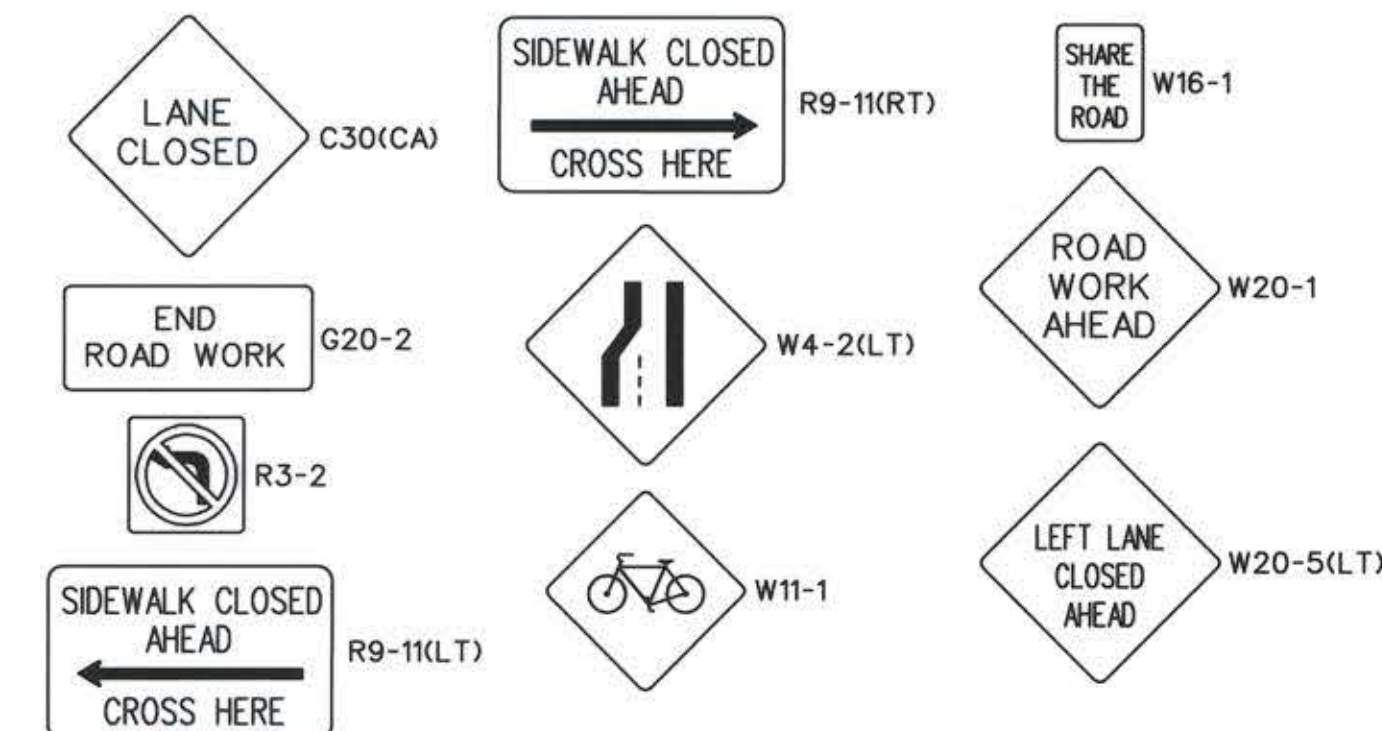
- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 9:00 AM TO 4:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**



**TRAFFIC CONTROL DESIGN SPEED**  
 F STREET = 25 MPH  
 TENTH AVENUE = 25 MPH  
 ELEVENTH AVENUE = 25 MPH

**DECLARATION OF RESPONSIBLE CHARGE**

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

**ENGINEER OF WORK**

*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC18-6350-49SG17.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1. **T-18**

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957  
 F STREET  
 (STAGE 17)**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 18 OF 54 SHEETS	WATER WBS B-1154 SEWER WBS B-1152
APPROVED BY: <i>John P. Keating</i> DATE: 12/17/2012	FOR CITY ENGINEER
DESIGNED BY: LLG	APPROVED BY: JIM HAGHGOUY ASSOCIATE ENGINEER
ORIGINAL	FILED
	PROJECT ENGINEER: BRIAN VITELLE
	SEE CIVIL SHEETS CCS27 COORDINATE
	SEE CIVIL SHEETS CCS85 COORDINATE
CONTRACTOR	DATE STARTED
INSPECTOR	DATE COMPLETED
	36689-T18-D



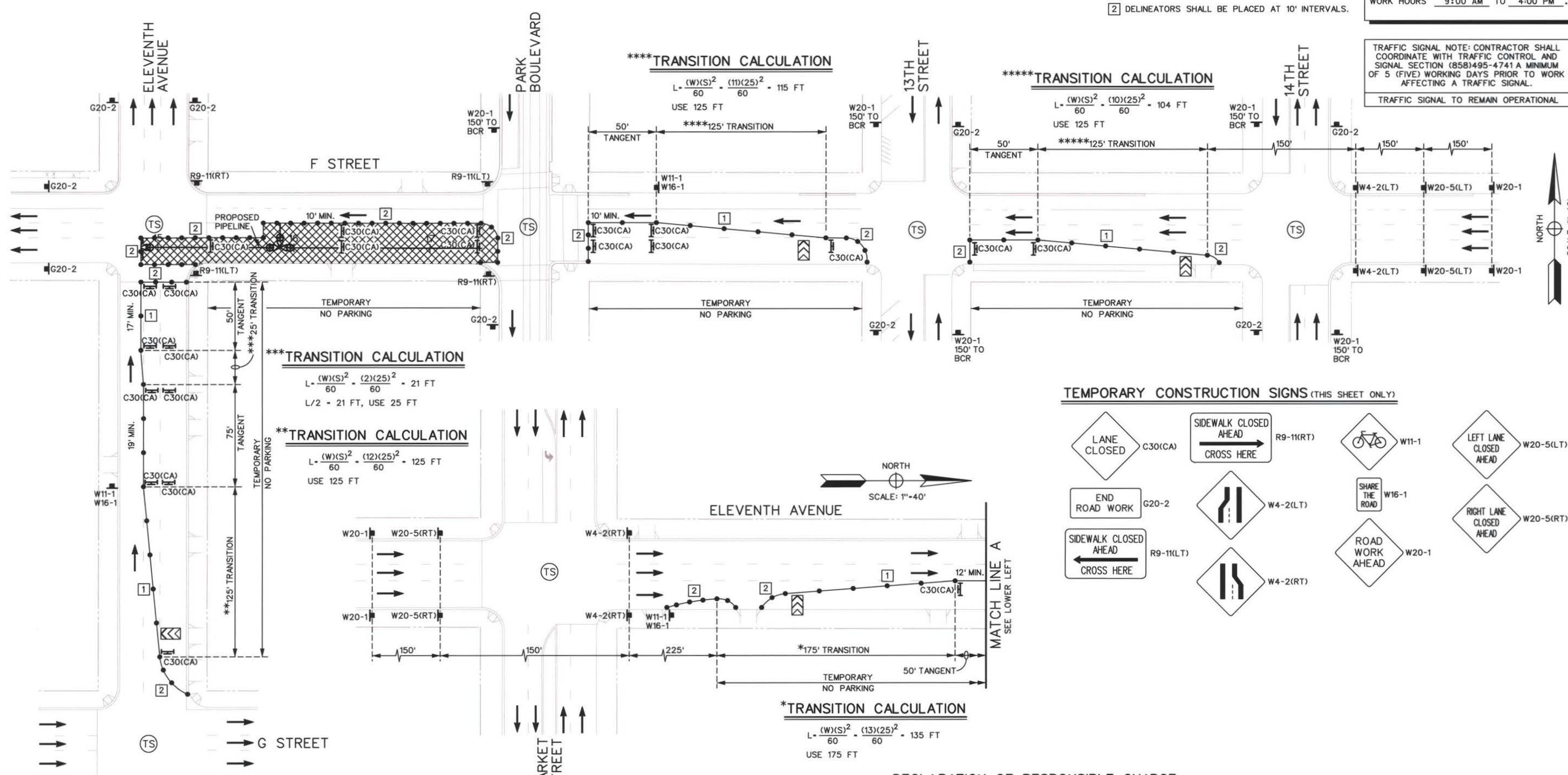


**NOTES THIS SHEET**

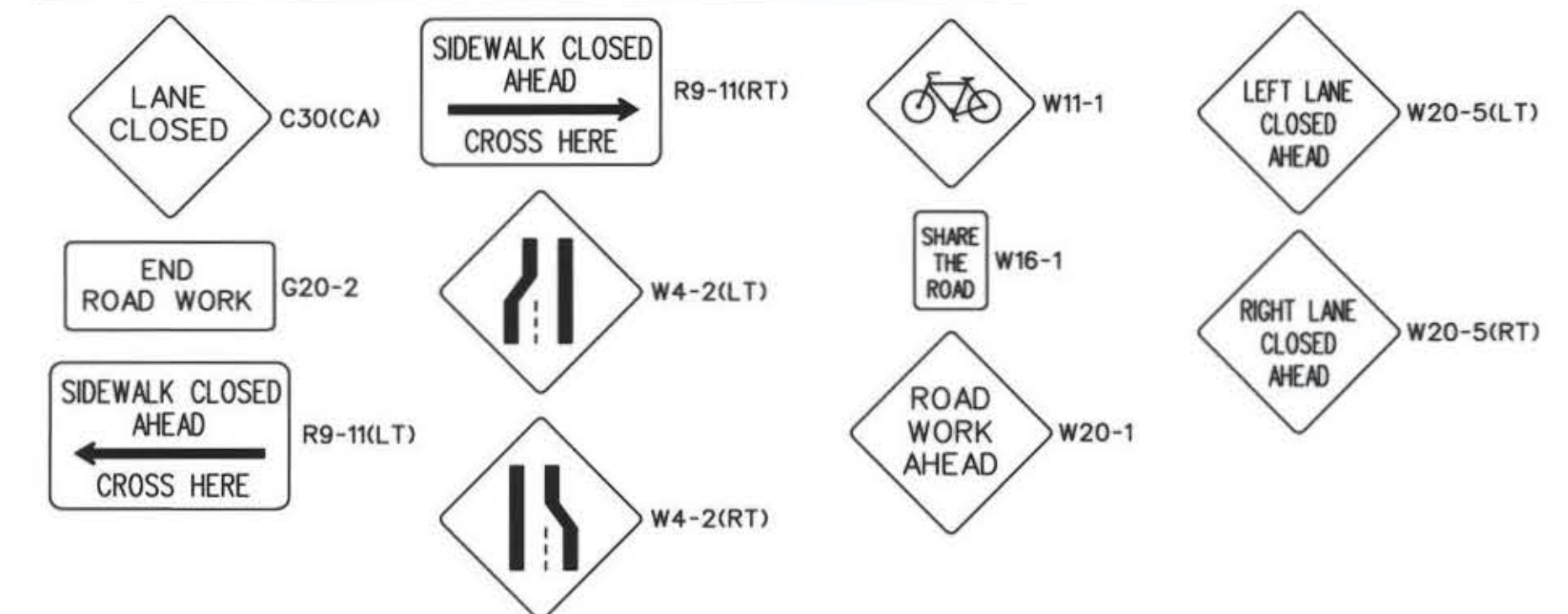
- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 9:00 AM TO 4:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**



**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

**ENGINEER OF WORK**

*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1	TC19-6350-49ST018.DGN	11/19/12
Designed By: JSM	Drawn By: DVS	Checked By: JPK

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-19

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957**  
**F STREET**  
 (STAGE 1B)

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 19 OF 54 SHEETS		WATER WBS B-1154 SEWER WBS B-1152
APPROVED BY: <i>John P. Keating</i> FOR CITY ENGINEER DATE: 12/17/2012	DESIGNED BY: JIM HUGHSON ASSOCIATE ENGINEER	
DESCRIPTION ORIGINAL	BY LLG	APPROVED DATE FILMED
DESIGNED BY: BRIAN VITELLE PROJECT ENGINEER		
SEE CIVIL SHEETS CCS27 COORDINATE		
SEE CIVIL SHEETS CCS35 COORDINATE		
CONTRACTOR	DATE STARTED	36689-T19-D
INSPECTOR	DATE COMPLETED	

**TRAFFIC CONTROL DESIGN SPEED**

F STREET = 25 MPH  
 ELEVENTH AVENUE = 25 MPH



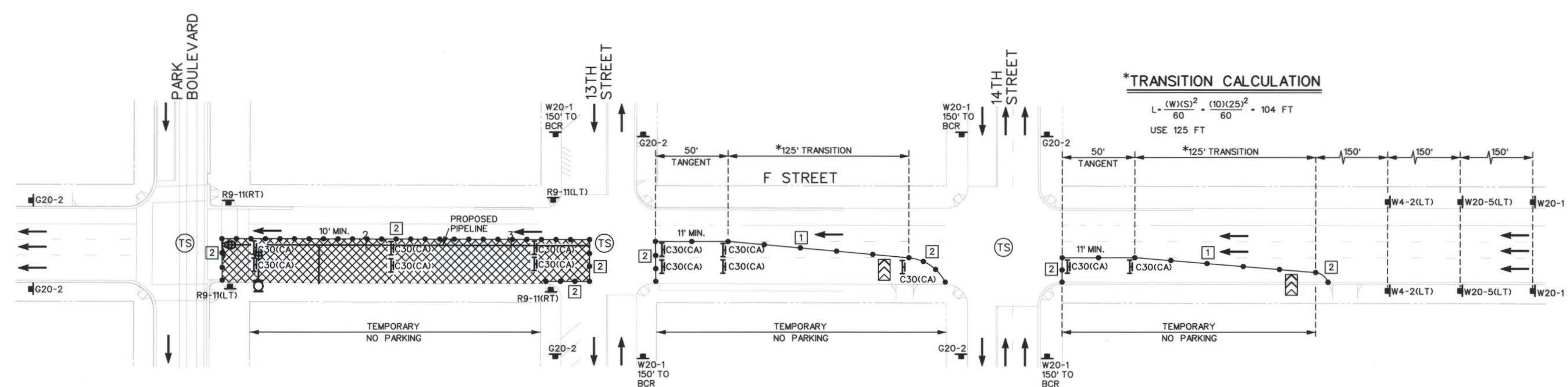


**NOTES THIS SHEET**

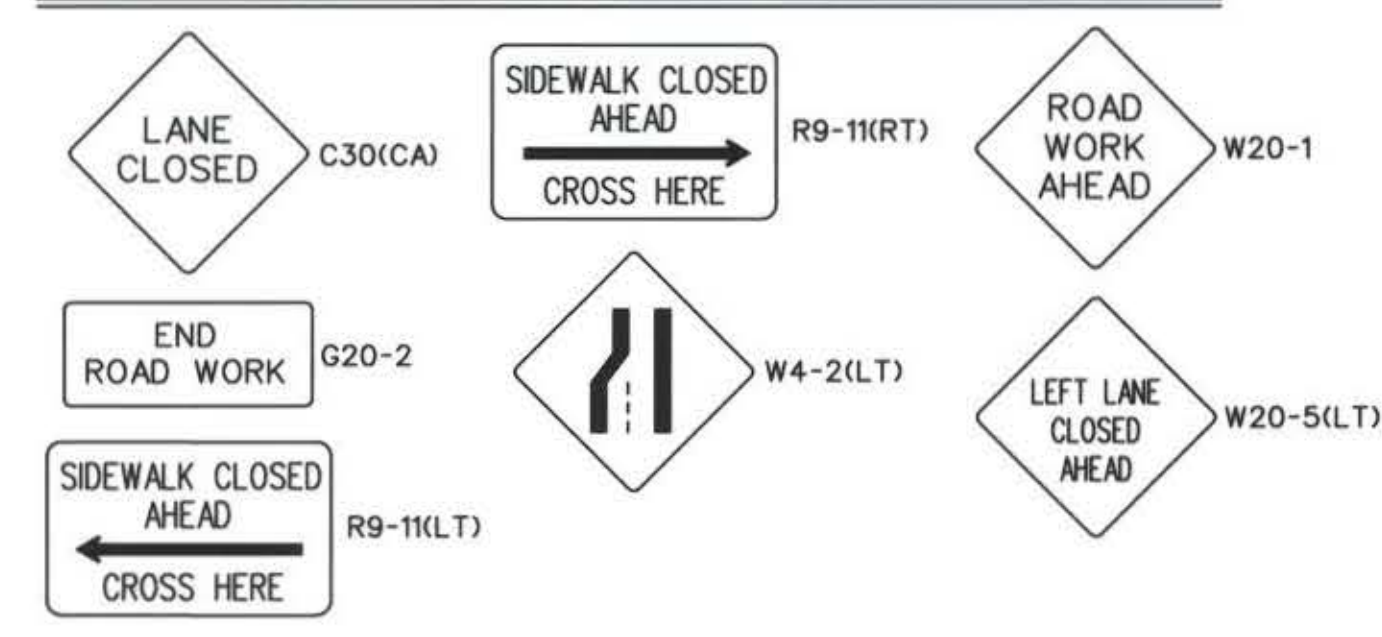
- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 9:00 AM TO 4:00 PM

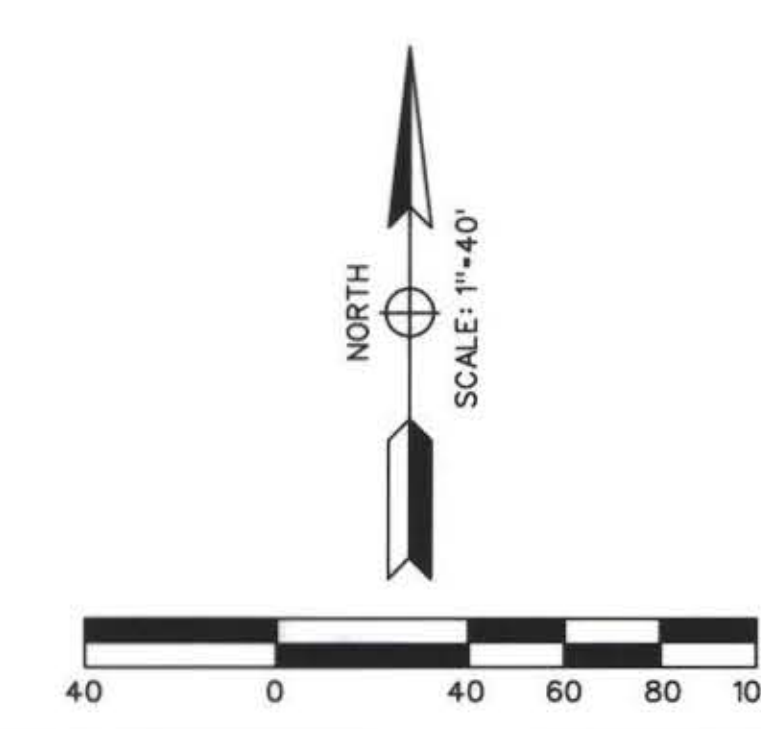
TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**



**TRAFFIC CONTROL DESIGN SPEED**  
 F STREET = 25 MPH



**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

**ENGINEER OF WORK**

JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1	TC20-6350-49STG19.DGN	11/19/12
Designed By: JSM	Drawn By: DVS	Checked By: JPK

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1. T-20

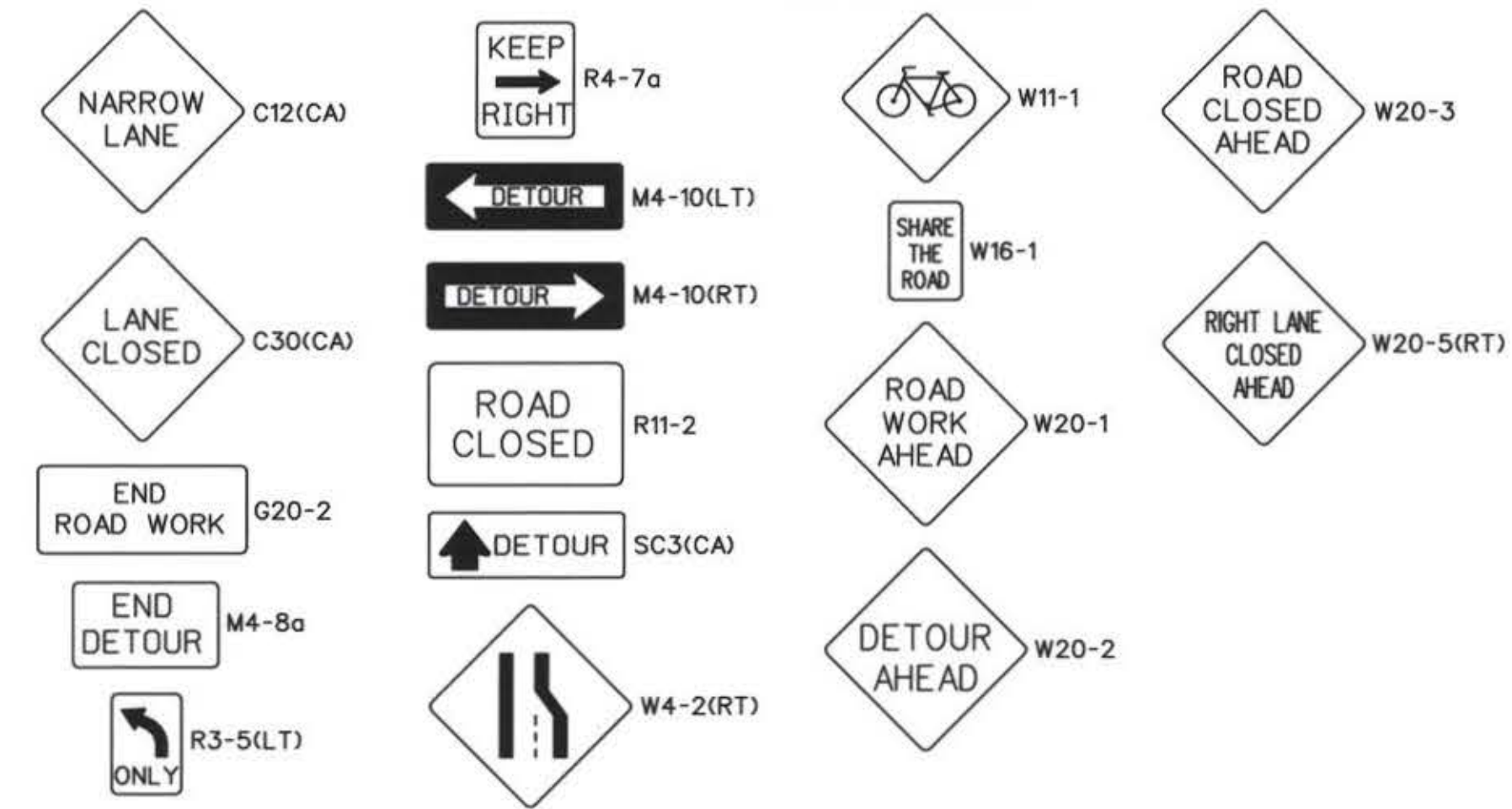
TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957**  
**F STREET**  
 (STAGE 19)

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 20 OF 54 SHEETS		WATER WBS B-1154 SEWER WBS B-1152
APPROVED BY: <i>John P. Keating</i> FOR CITY ENGINEER DATE: 12/17/2012	DESIGNED BY: JSM	FOR PROJECT ENGINEER: JIM HAGHSOLY
DESCRIPTION	BY	APPROVED
ORIGINAL	LLG	
DATE		
FILMED		
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
		36689-T20-D



TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)



NOTES THIS SHEET

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.
- 3 SEE DETOUR PLAN THIS SHEET.

\*\*\*\*\*  
**PIPELINE CONSTRUCTION**  
 WORK HOURS 9:00 PM TO 5:00 AM  
 \*\*\*\*\*  
 \*\*\*\*\*NIGHT WORK\*\*\*\*\*

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL SHALL BE SET TO RED FLASH AT F STREET/13TH STREET INTERSECTION  
 ALL OTHER TRAFFIC SIGNALS TO REMAIN OPERATIONAL AT OTHER INTERSECTIONS

\*\*TRANSITION CALCULATION

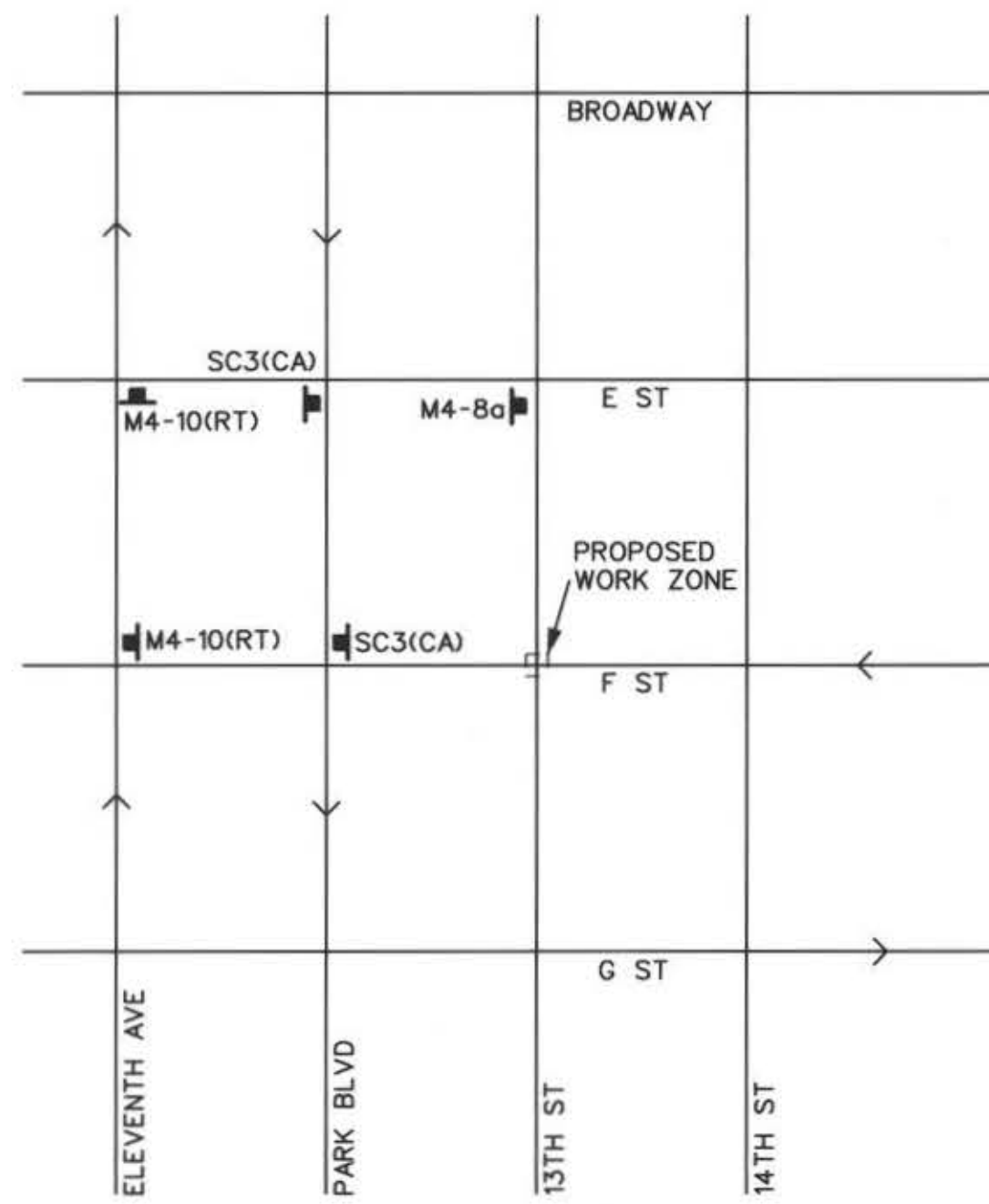
$$L = \frac{(W)(S)^2}{60} = \frac{(14)(25)^2}{60} = 146 \text{ FT}$$

$$L/2 = 73 \text{ FT, USE 100 FT}$$

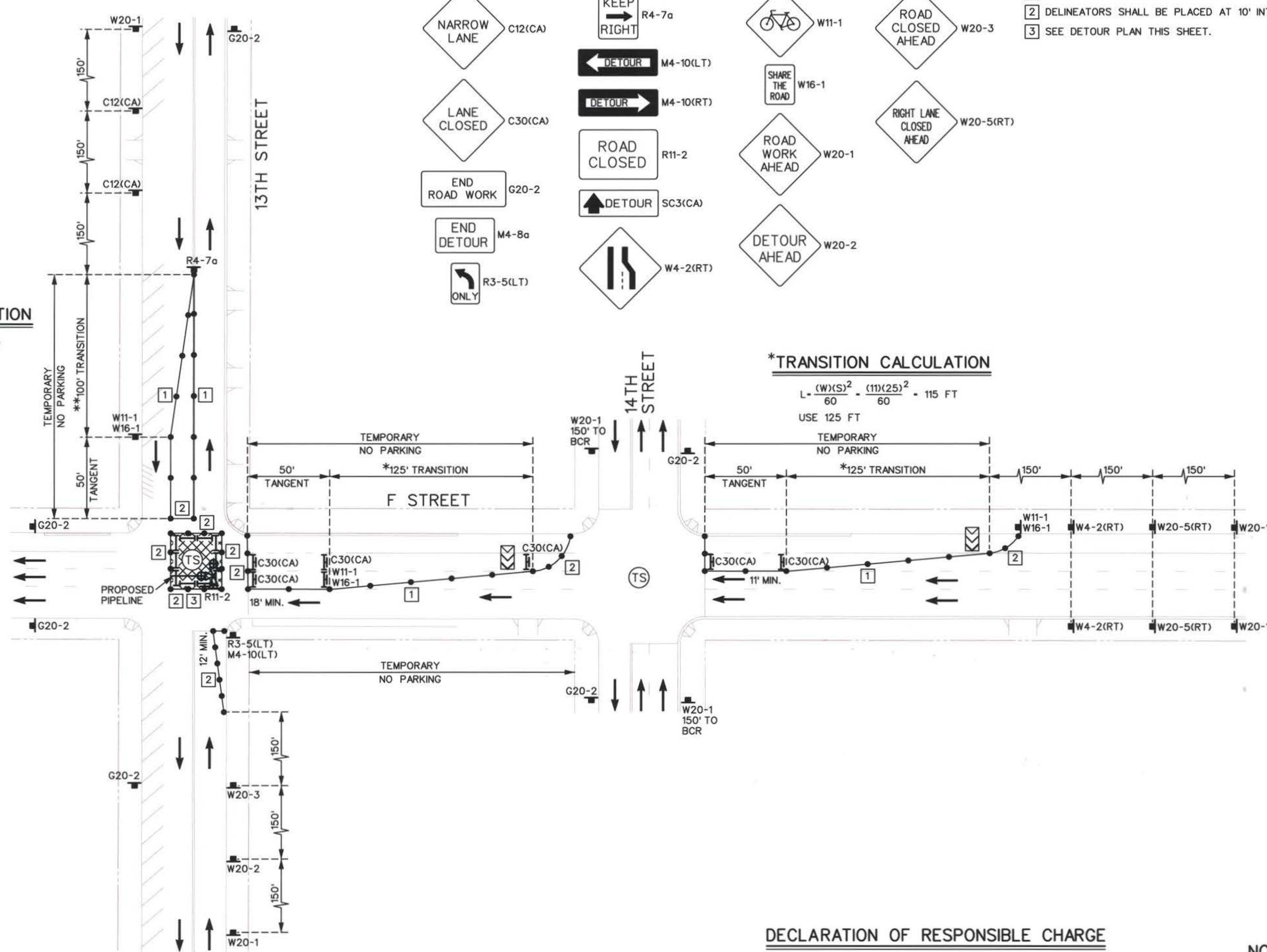
\*TRANSITION CALCULATION

$$L = \frac{(W)(S)^2}{60} = \frac{(11)(25)^2}{60} = 115 \text{ FT}$$

$$\text{USE 125 FT}$$



DETOUR PLAN 3  
 NOT TO SCALE



DECLARATION OF RESPONSIBLE CHARGE

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

ENGINEER OF WORK

JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



LINSCOTT, LAW & GREENSPAN, ENGINEERS  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1	TC21-6350-495TG20.DGN	11/19/12
Designed By: JSM	Drawn By: DVS	Checked By: JPK

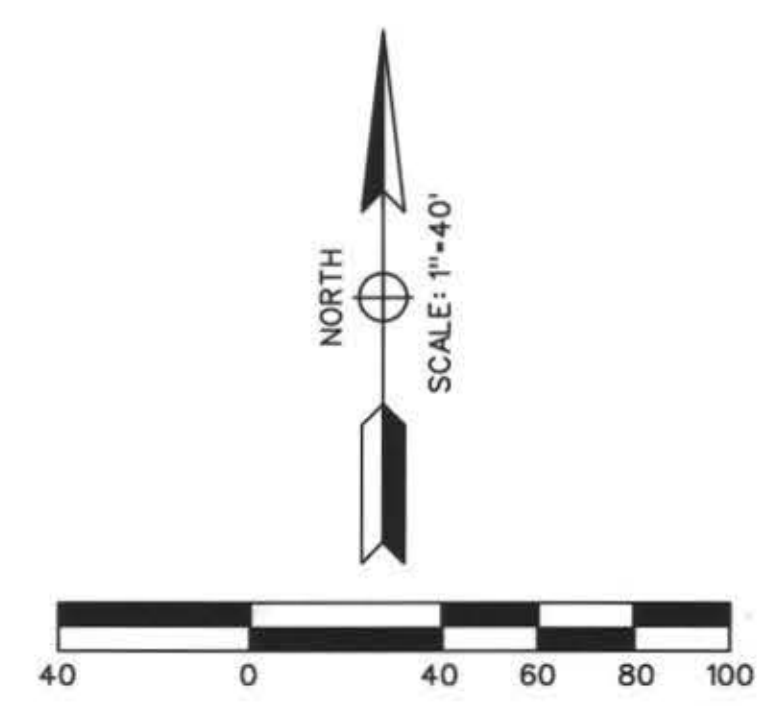
NOTE

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-21

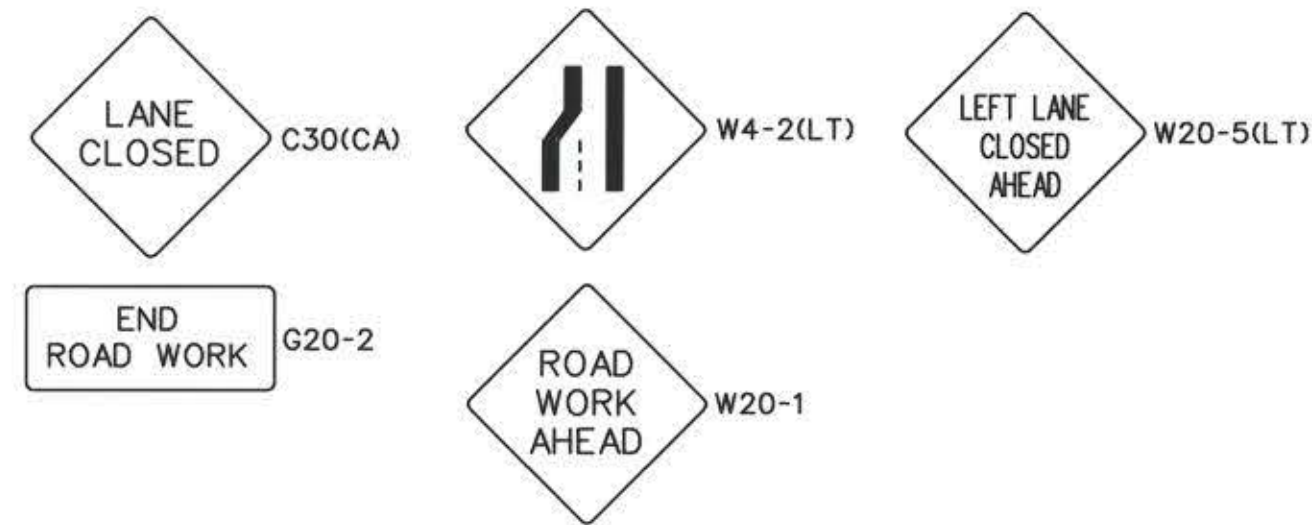
TRAFFIC CONTROL PLANS FOR:			
<b>SEWER AND WATER GROUP JOB 957 F STREET (STAGE 20)</b>			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 21 OF 54 SHEETS		WATER WBS B-1154 SEWER WBS B-1152	
APPROVED FOR CITY ENGINEER	DATE 12/17/2012	SUBMITTED BY JIM HAKHAGOLY ASSOCIATE ENGINEER	
DESCRIPTION ORIGINAL	BY LLG	APPROVED DATE	FILED
CONTRACTOR	DATE STARTED	36689-T21-D	
INSPECTOR	DATE COMPLETED		

TRAFFIC CONTROL DESIGN SPEED  
 F STREET = 25 MPH  
 13TH STREET = 25 MPH





**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**

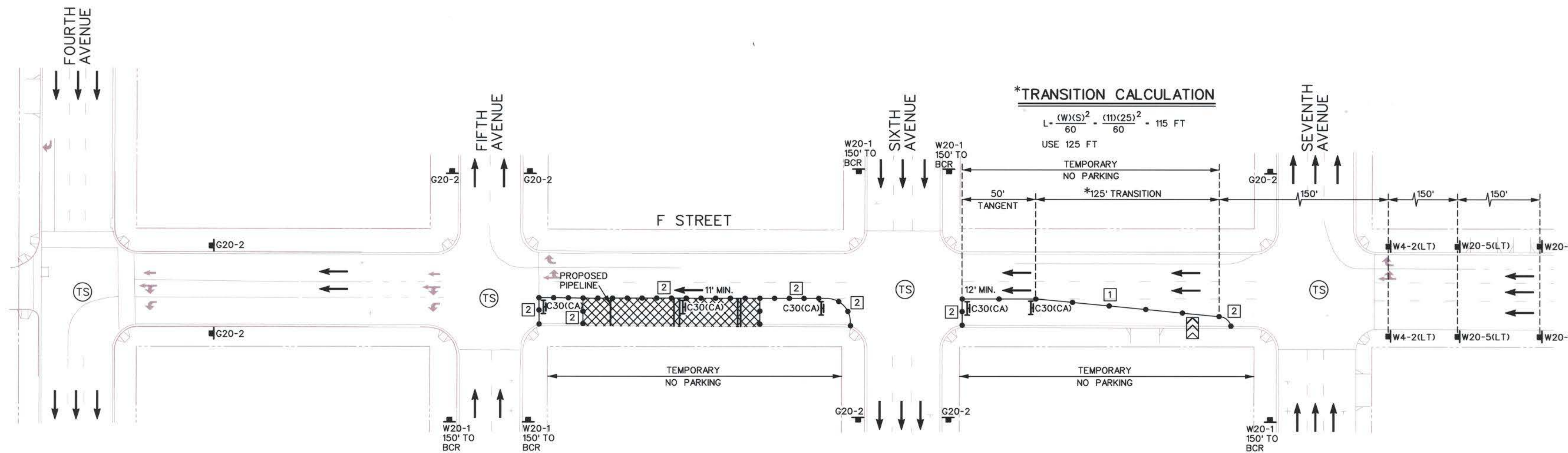


**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 9:00 AM TO 4:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

**ENGINEER OF WORK**

*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC22-6350-495TG21.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-22

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957**  
**F STREET**  
 (STAGE 21)

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 22 OF 54 SHEETS		WATER WBS B-1154
APPROVED: <i>John P. Keating</i> 12/17/2012 FOR CITY ENGINEER DATE		SEWER WBS B-1152
DESIGNED BY: LLG	APPROVED BY: JIM HAGGOUY	ASSOCIATE ENGINEER
ORIGINAL	BY: BRIAN VITELLE	PROJECT ENGINEER
	SEE CIVIL SHEETS	CCS27 COORDINATE
	SEE CIVIL SHEETS	CCS83 COORDINATE
CONTRACTOR	DATE STARTED	36689-T22-D
INSPECTOR	DATE COMPLETED	

**TRAFFIC CONTROL DESIGN SPEED**

F STREET = 25 MPH  
 FIFTH AVENUE = 25 MPH



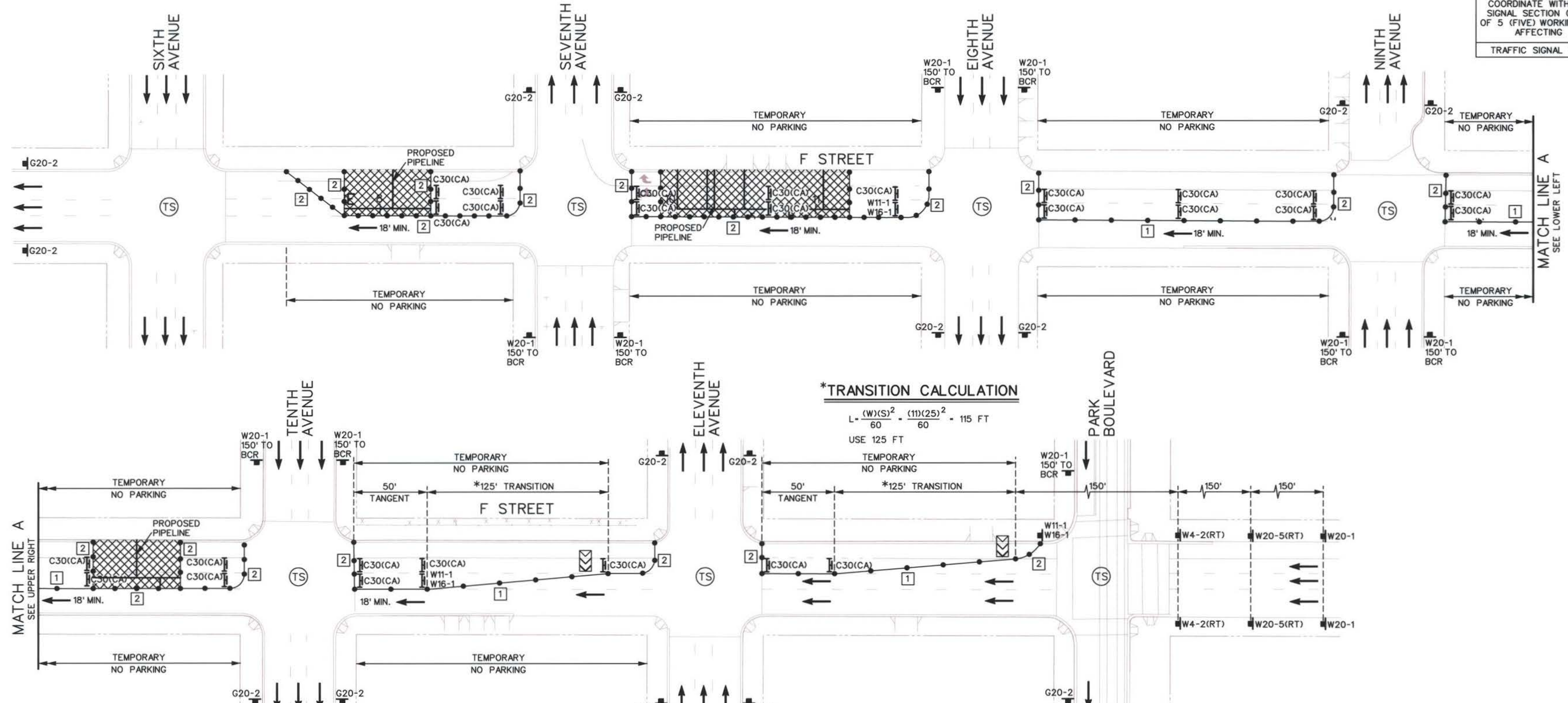


**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 9:00 AM TO 4:00 PM

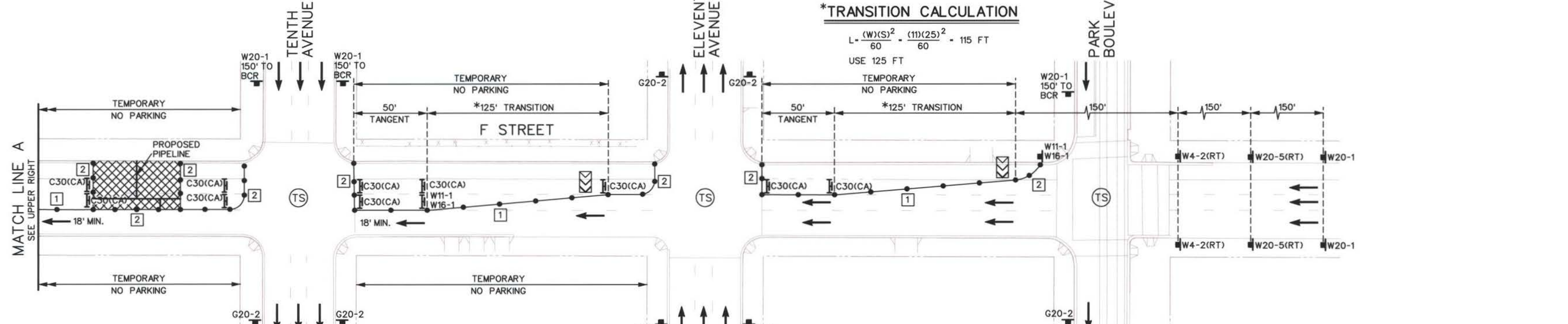
**TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.**  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



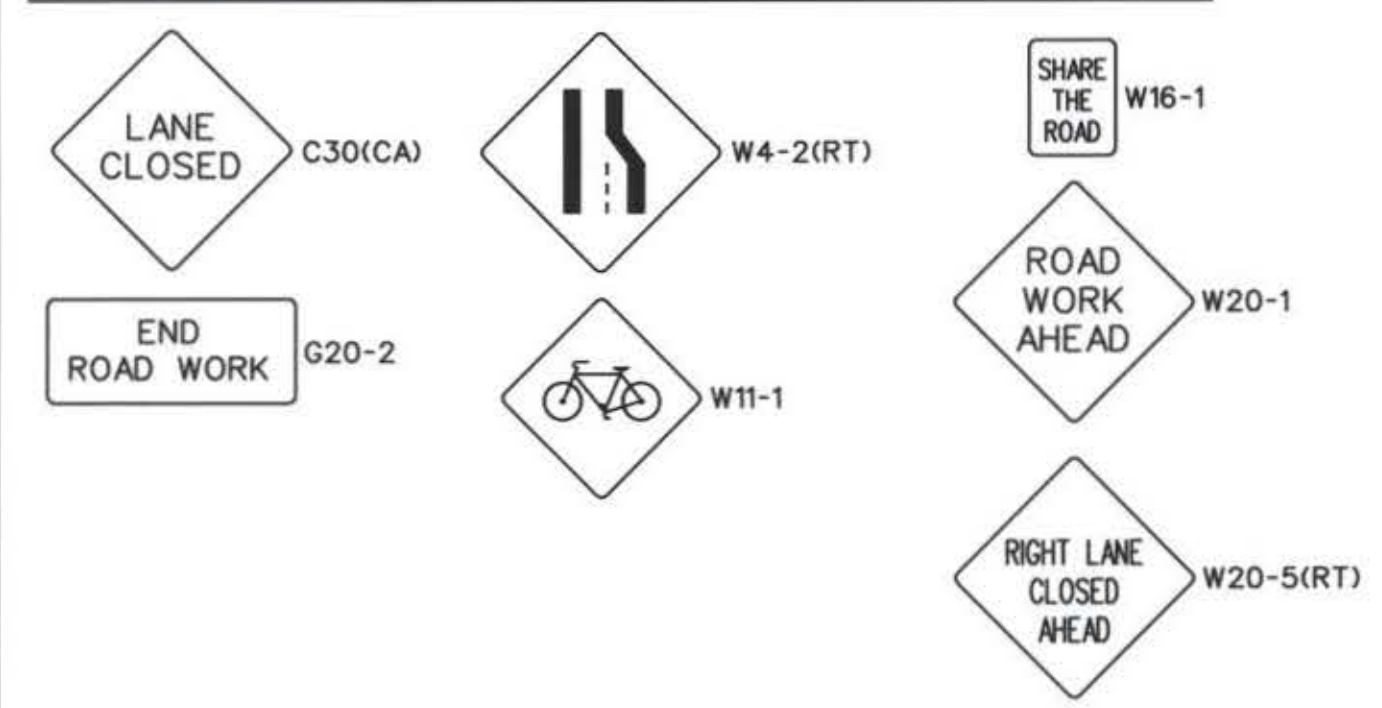
**\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} - \frac{(11)(25)^2}{60} = 115 \text{ FT}$$

USE 125 FT



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**



**TRAFFIC CONTROL DESIGN SPEED**  
 F STREET = 25 MPH

**DECLARATION OF RESPONSIBLE CHARGE**

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

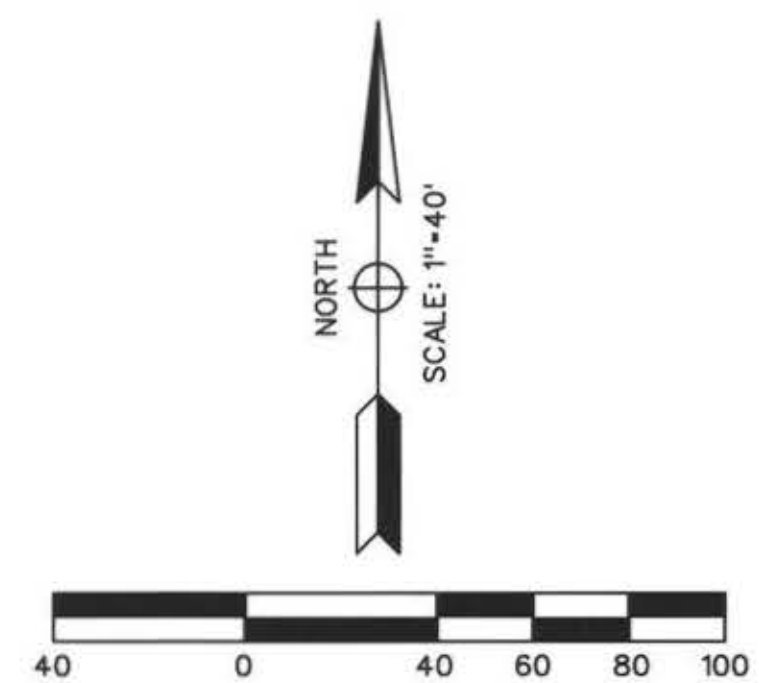
**ENGINEER OF WORK**

JOHN F. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLC 3-076350-49.1 TC23-6350-49STG22.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK



**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-23

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957**  
**F STREET**  
 (STAGE 22)

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 23 OF 54 SHEETS	WATER WBS B-1154 SEWER WBS B-1152
APPROVED: <i>John P. Keating</i> 12/17/2012 FOR CITY ENGINEER DATE	DRAWN BY: JIM HAGHGOULY ASSOCIATE ENGINEER
DESCRIPTION BY APPROVED DATE FILMED	DESIGNED BY: BRIAN VITELLE PROJECT ENGINEER
ORIGINAL LLG	SEE CIVIL SHEETS CCS27 COORDINATE
	SEE CIVIL SHEETS CCS85 COORDINATE
CONTRACTOR INSPECTOR	DATE STARTED DATE COMPLETED
	36689-T23-D



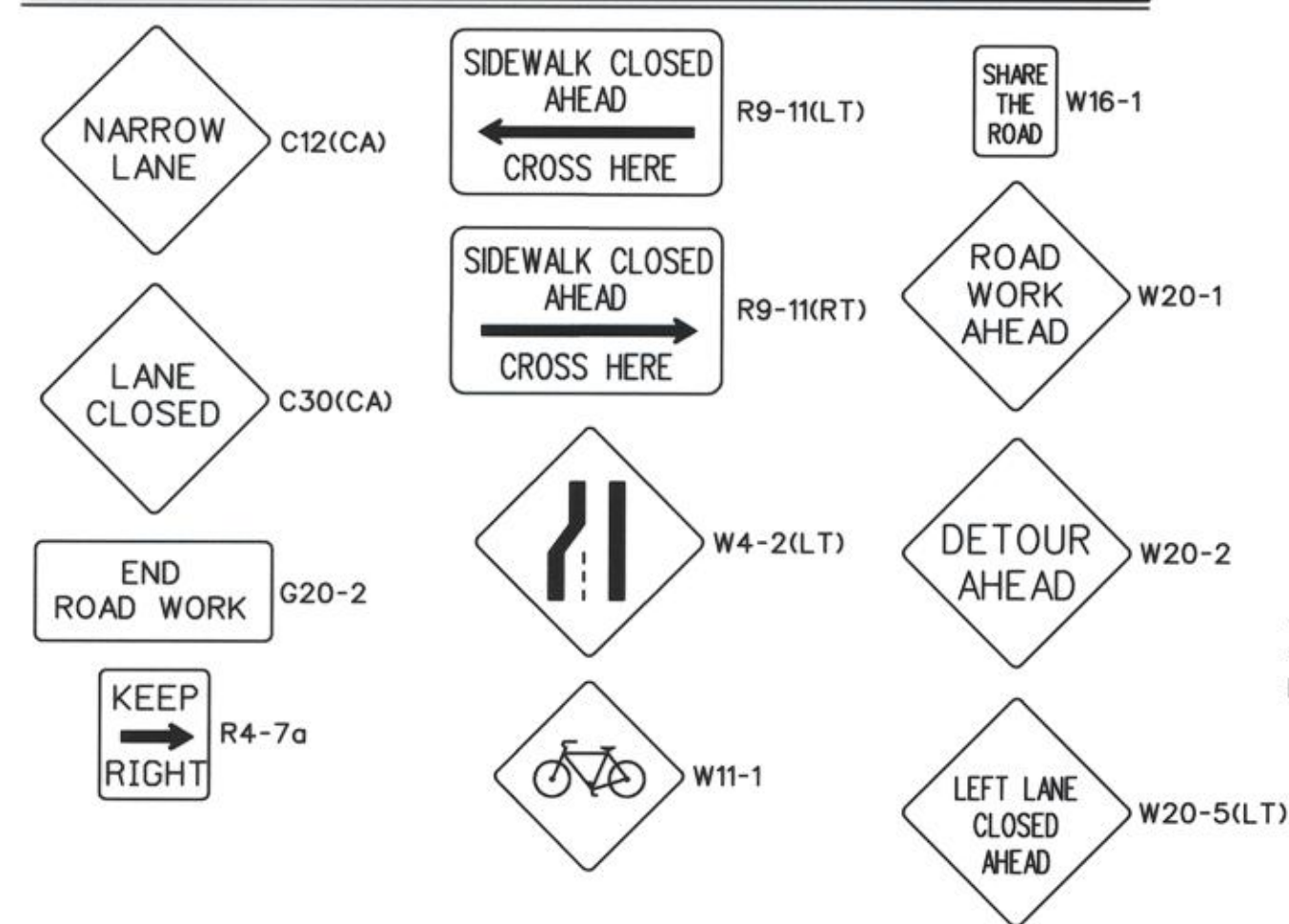








**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**



**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL

**\*\*TRANSITION CALCULATION**

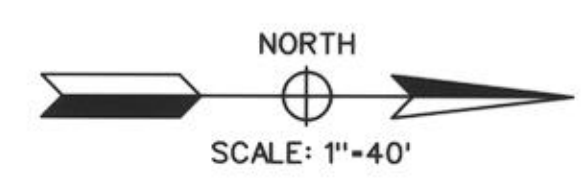
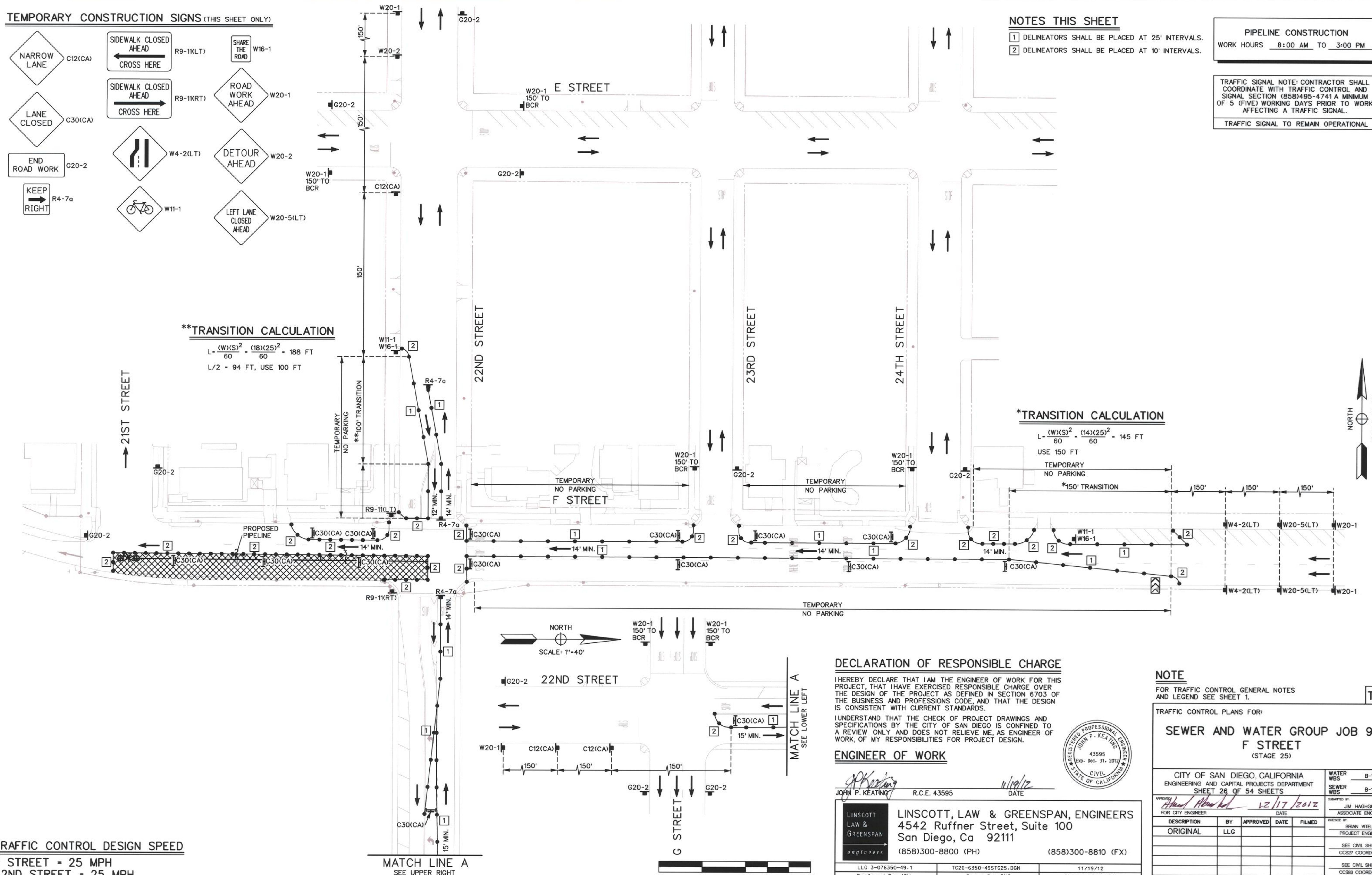
$$L = \frac{(W)(S)^2}{60} = \frac{(18)(25)^2}{60} = 188 \text{ FT}$$

$$L/2 = 94 \text{ FT, USE 100 FT}$$

**\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(14)(25)^2}{60} = 145 \text{ FT}$$

USE 150 FT



**DECLARATION OF RESPONSIBLE CHARGE**

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

**ENGINEER OF WORK**

*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC26-6350-49STG25.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-26

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957**  
**F STREET**  
 (STAGE 25)

CITY OF SAN DIEGO, CALIFORNIA		WATER WBS	B-1154
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT		SEWER WBS	B-1152
SHEET 26 OF 54 SHEETS			
APPROVED FOR CITY ENGINEER	DATE	SUBMITTED BY	
<i>John P. Keating</i>	12/17/2012	JIM HAGHSOLU	ASSOCIATE ENGINEER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	LLG		
		CREATED BY	BRIAN VITELLE
		PROJECT ENGINEER	
		SEE CIVIL SHEETS	CC527 COORDINATE
		SEE CIVIL SHEETS	CC583 COORDINATE
CONTRACTOR	DATE STARTED	CONTRACTOR	DATE COMPLETED
			36689-T26-D

**TRAFFIC CONTROL DESIGN SPEED**  
 F STREET = 25 MPH  
 22ND STREET = 25 MPH



**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.
- 3 SEE DETOUR PLAN THIS SHEET.

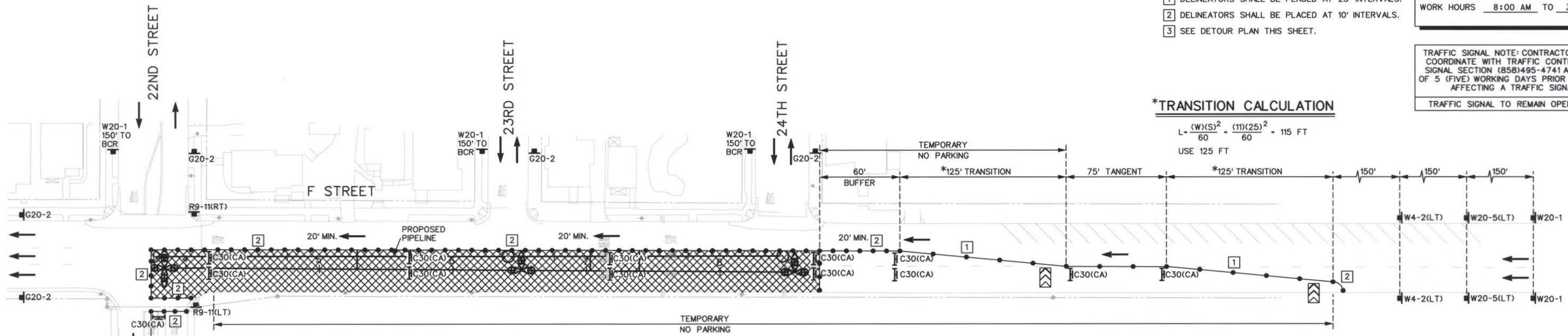
**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

**TRAFFIC SIGNAL NOTE:** CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL

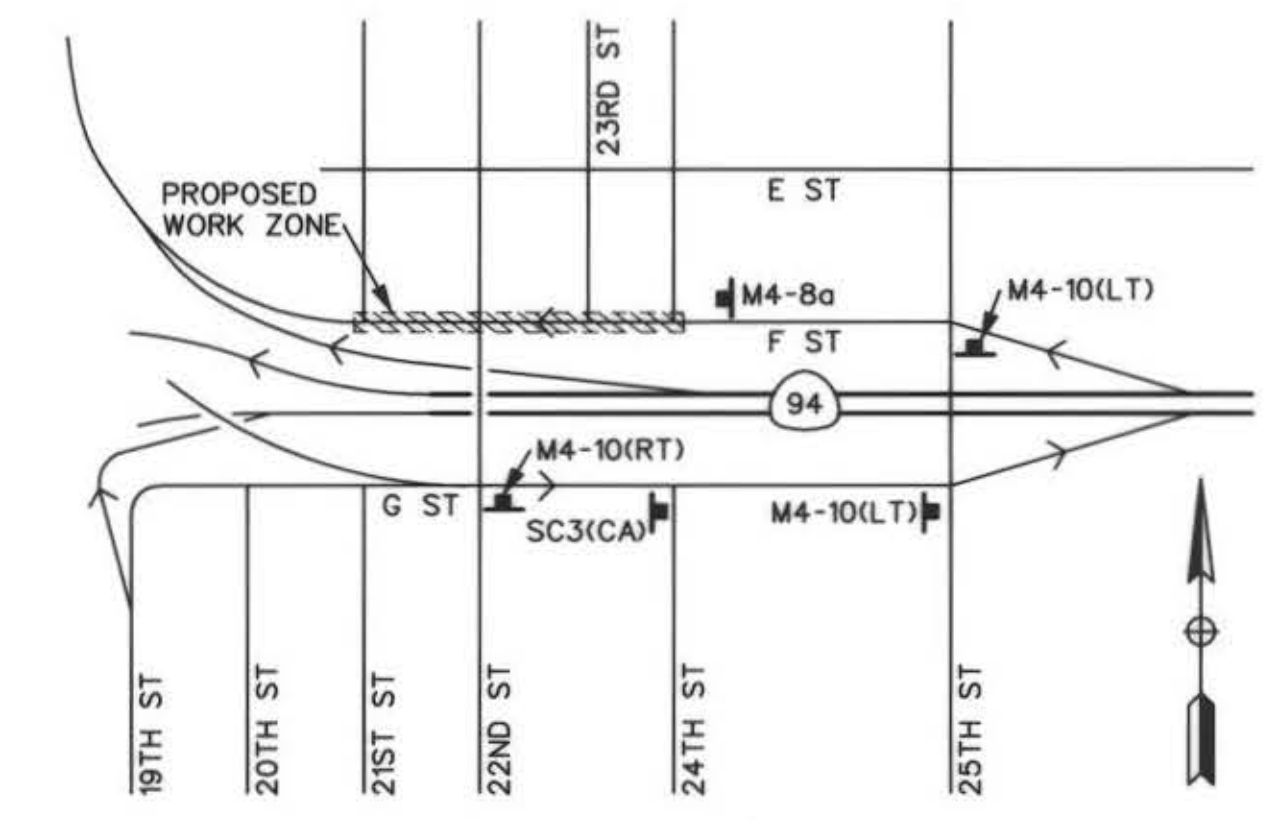
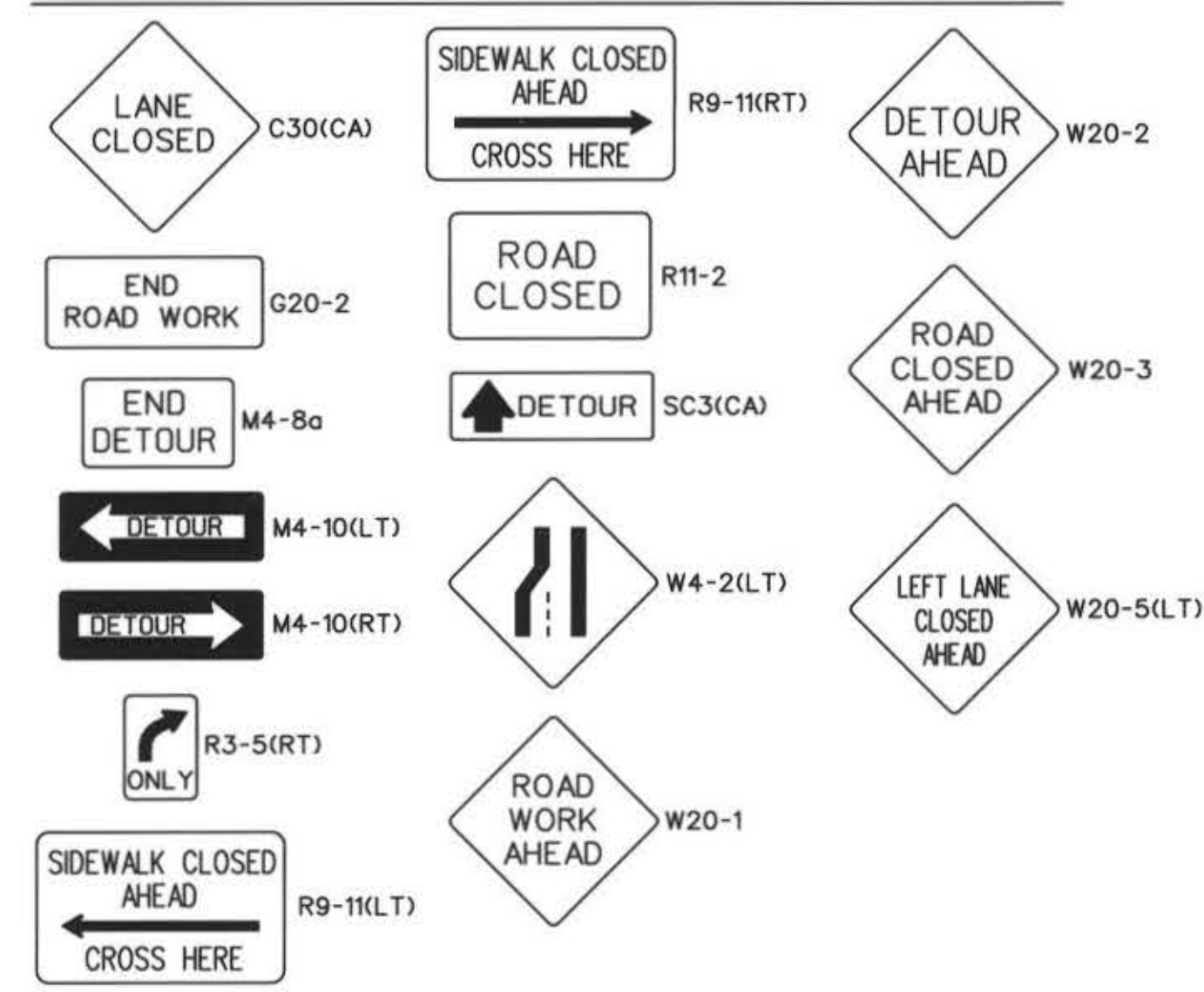
**\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(11)(25)^2}{60} = 115 \text{ FT}$$

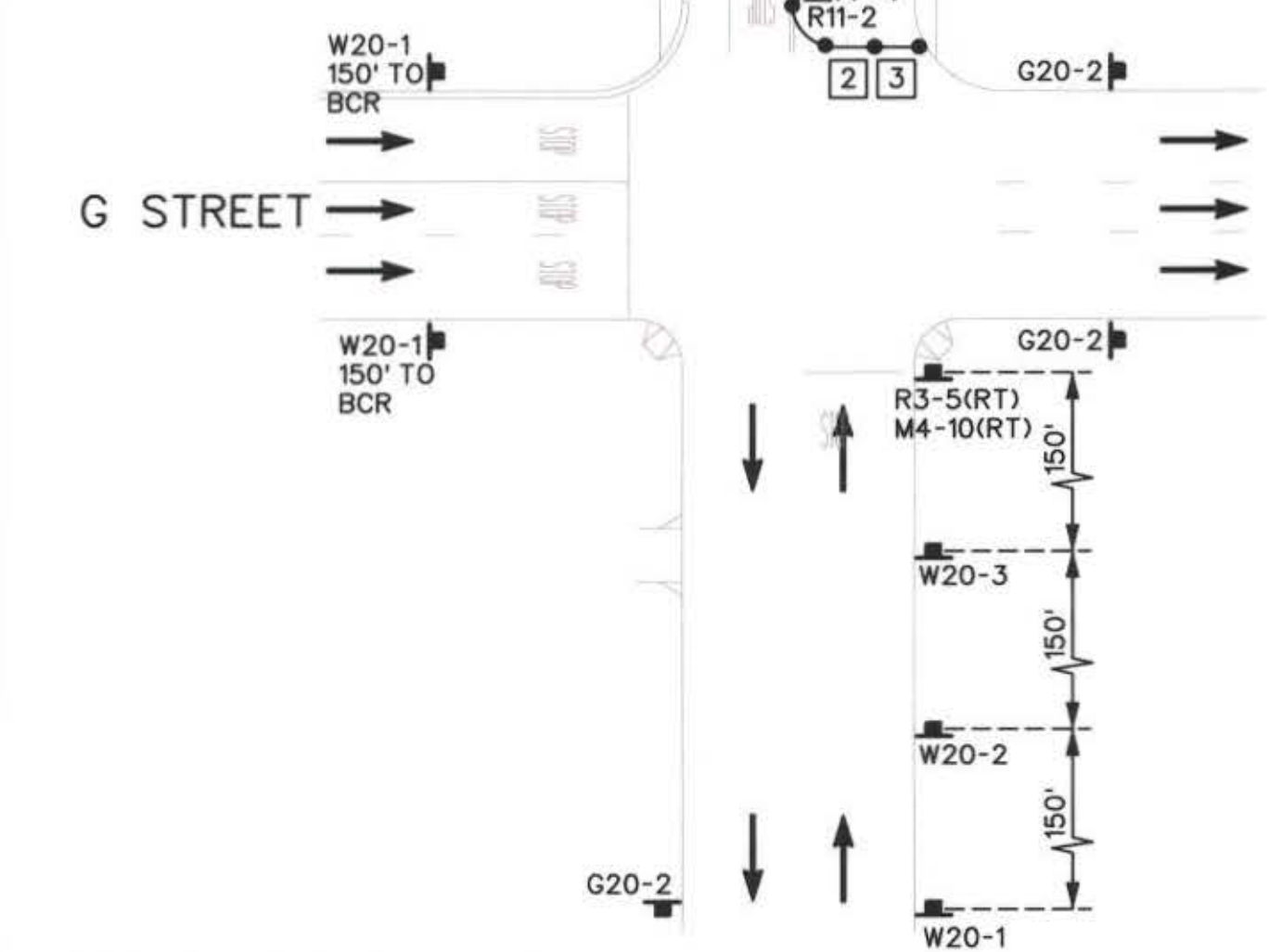
USE 125 FT



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**



**DETOUR PLAN 3**  
 NOT TO SCALE



**TRAFFIC CONTROL DESIGN SPEED**  
 F STREET = 25 MPH  
 22ND STREET = 25 MPH

**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

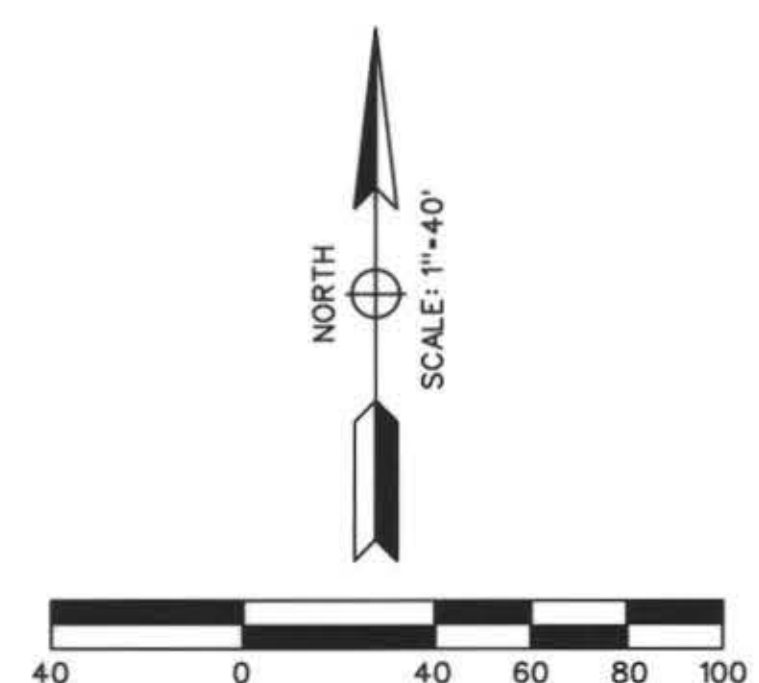
I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

**ENGINEER OF WORK**

*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)



**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-27

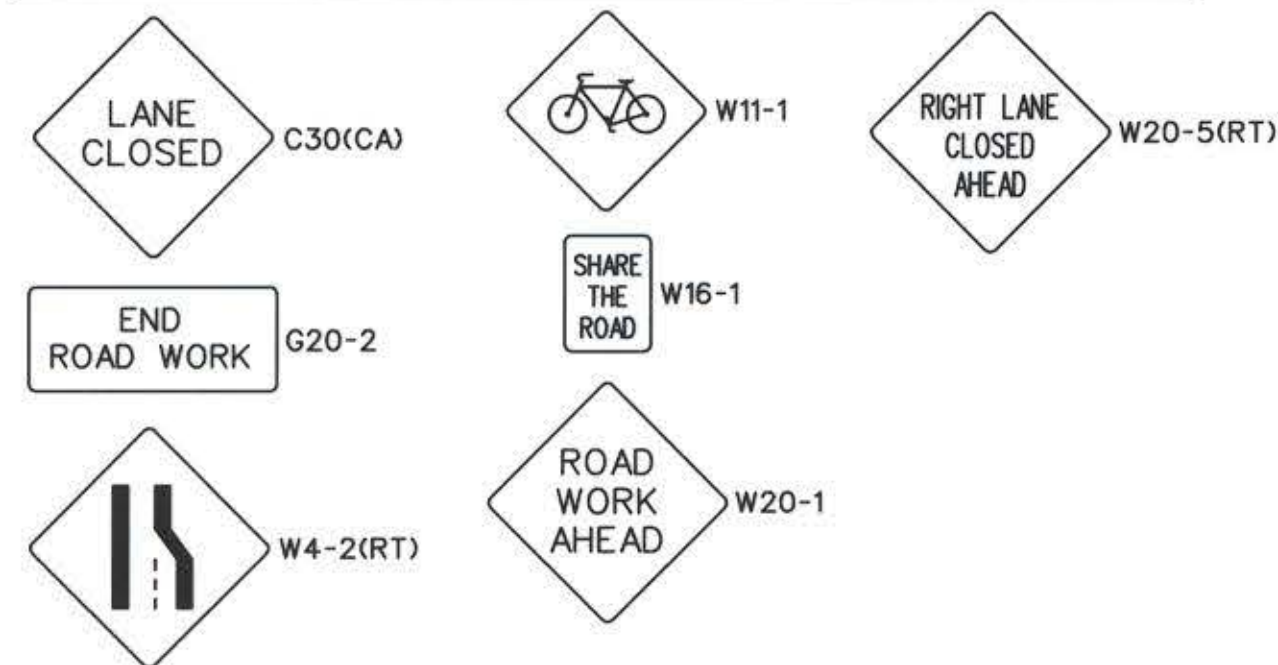
TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957  
 F STREET  
 (STAGE 26)**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 27 OF 54 SHEETS				WATER WBS B-1154
APPROVED: <i>John P. Keating</i> 12/17/2012 FOR CITY ENGINEER DATE				SEWER WBS B-1152
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	LLG			
CHECKED BY: BRAN VITELLE PROJECT ENGINEER				ISSUED BY: JIM HAGHDOLY ASSOCIATE ENGINEER
SEE CIVIL SHEETS CCS27 COORDINATE				SEE CIVIL SHEETS CCS83 COORDINATE
CONTRACTOR	DATE STARTED	INSPECTOR	DATE COMPLETED	36689-T27-D



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**

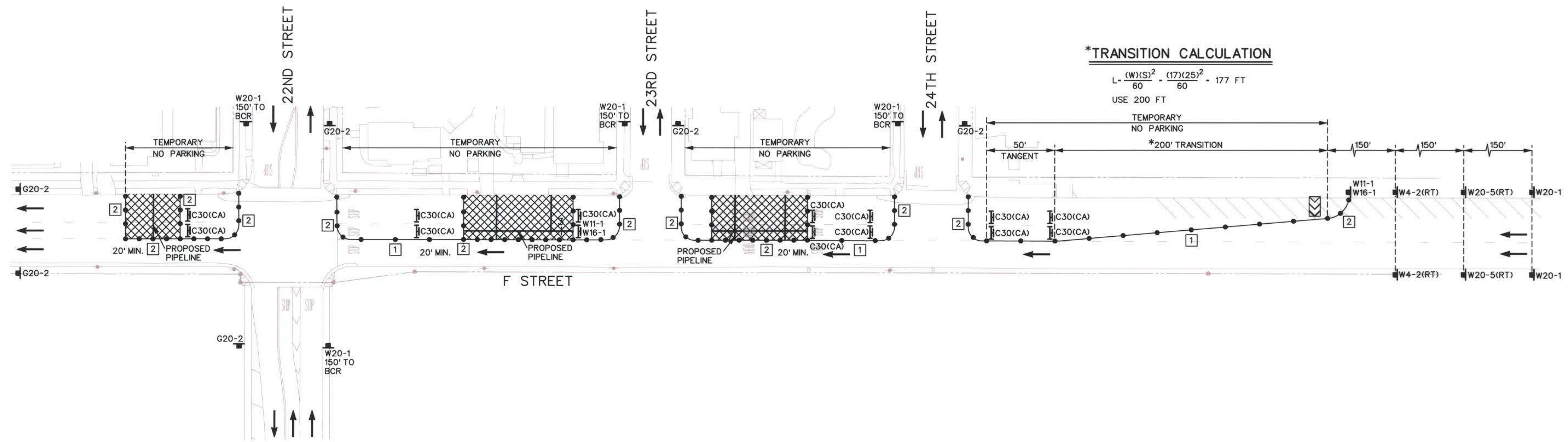


**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

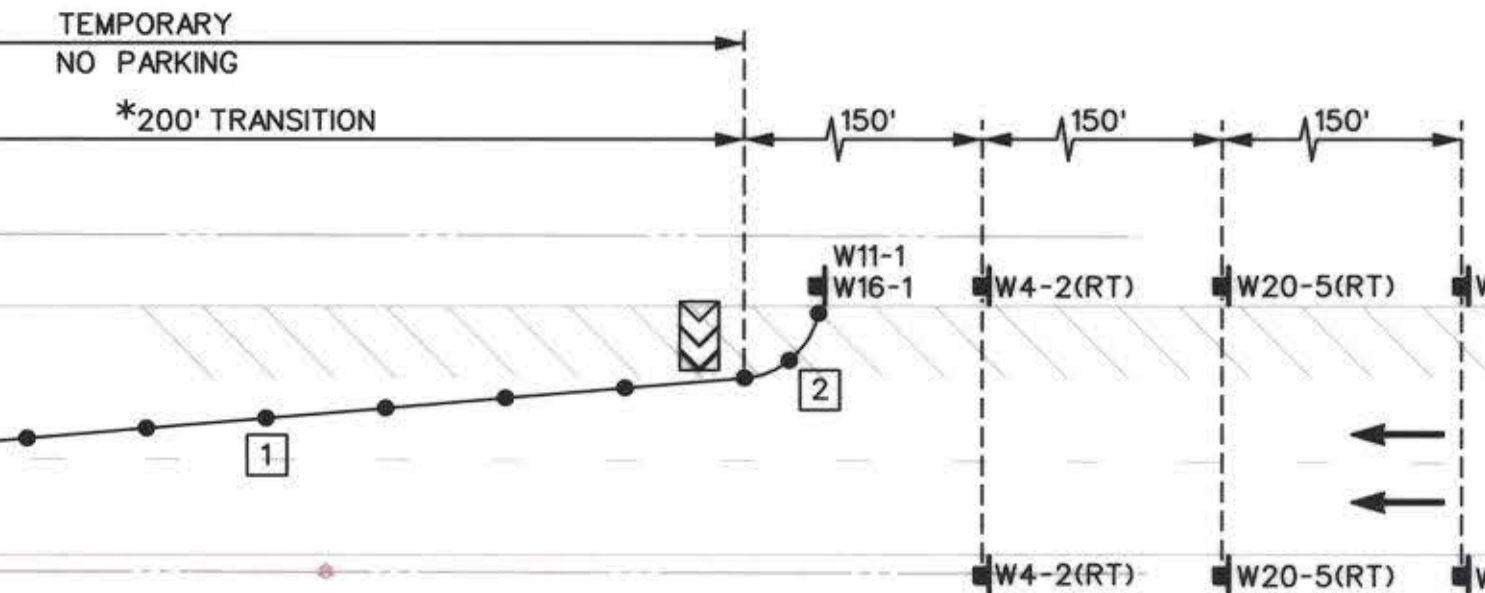
TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(17)(25)^2}{60} = 177 \text{ FT}$$

USE 200 FT



**TRAFFIC CONTROL DESIGN SPEED**

F STREET = 25 MPH  
 22ND STREET = 25 MPH

**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

**ENGINEER OF WORK**

*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1	TC28-6350-49STG27.DGN	11/19/12
Designed By: JSM	Drawn By: DVS	Checked By: JPK

**NOTE**

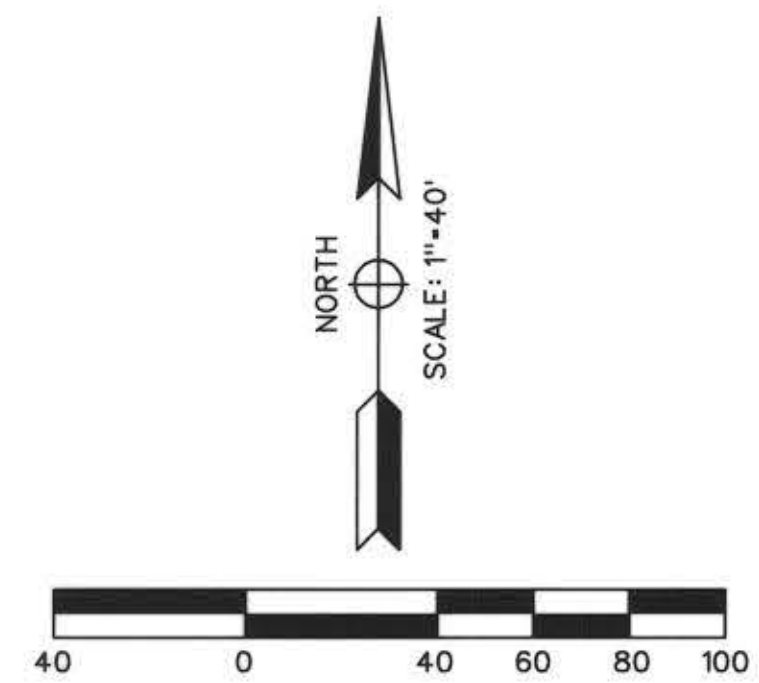
FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-28

TRAFFIC CONTROL PLANS FOR:

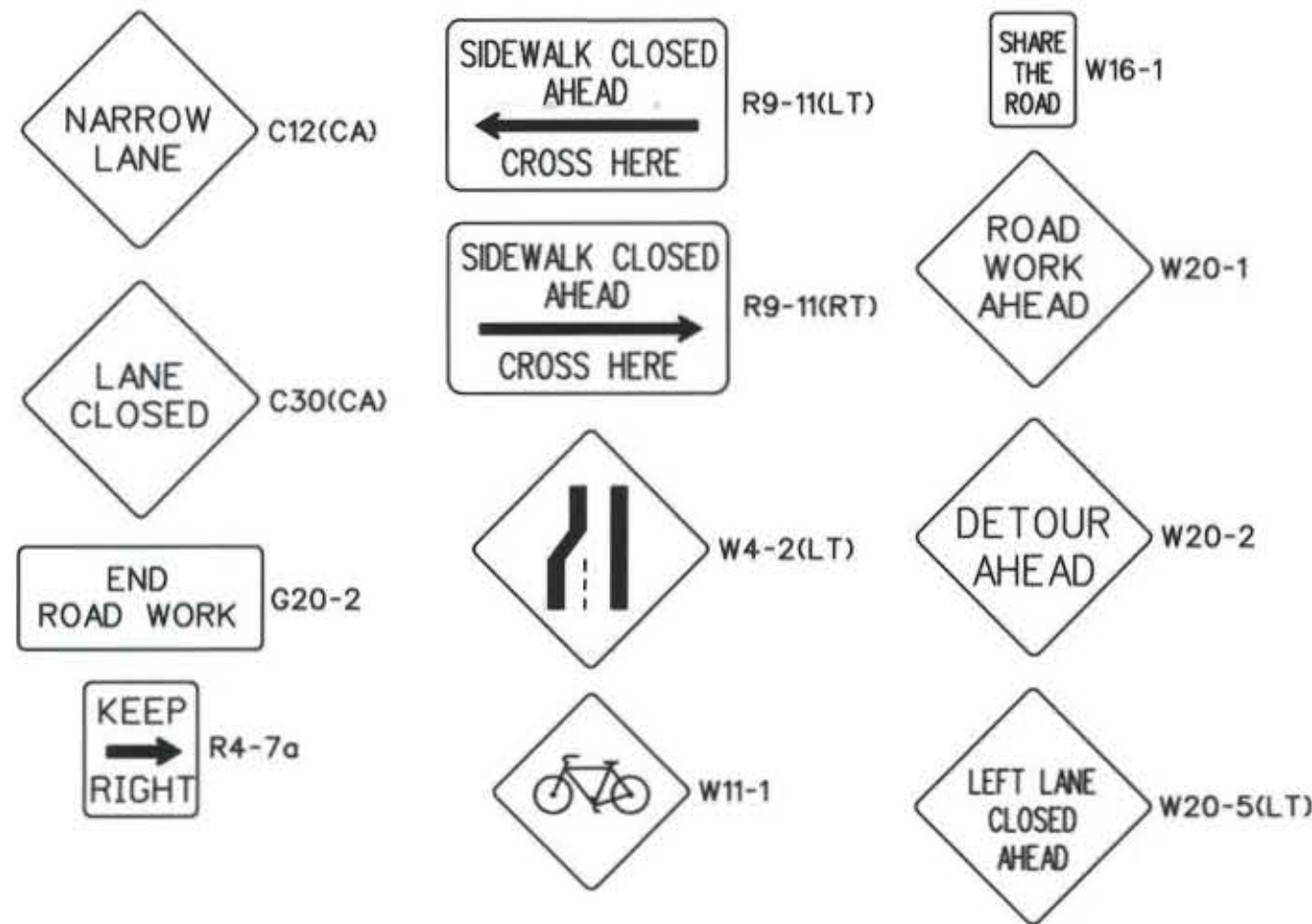
**SEWER AND WATER GROUP JOB 957**  
**F STREET**  
 (STAGE 27)

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 28 OF 54 SHEETS		WATER WBS B-1154 SEWER WBS B-1152
APPROVED BY: <i>Edward Howard</i> FOR CITY ENGINEER	DATE: 12/17/2012	DESIGNED BY: JIM HAGGOLY ASSOCIATE ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	LLG	
		DATE
		FILMED
CONTRACTOR	DATE STARTED	36689-T28-D
INSPECTOR	DATE COMPLETED	





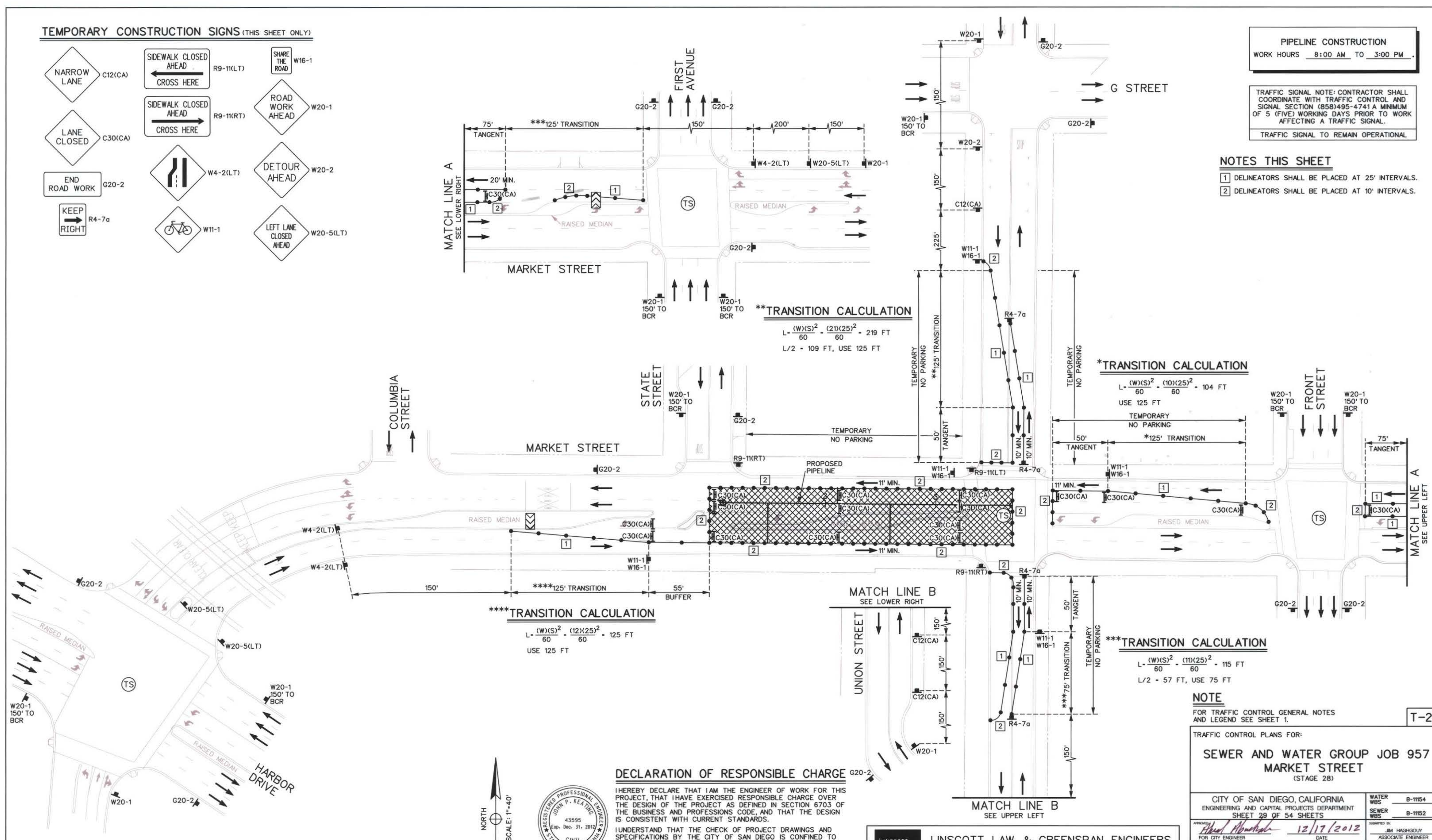
TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)



PIPELINE CONSTRUCTION  
WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
TRAFFIC SIGNAL TO REMAIN OPERATIONAL

- NOTES THIS SHEET
- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
  - 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.



**\*\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(21)(25)^2}{60} = 219 \text{ FT}$$

$$L/2 = 109 \text{ FT, USE 125 FT}$$

**\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(10)(25)^2}{60} = 104 \text{ FT}$$

USE 125 FT

**\*\*\*\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(12)(25)^2}{60} = 125 \text{ FT}$$

USE 125 FT

**\*\*\*\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(11)(25)^2}{60} = 115 \text{ FT}$$

$$L/2 = 57 \text{ FT, USE 75 FT}$$

NOTE  
FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1. T-29

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957  
MARKET STREET  
(STAGE 2B)**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 29 OF 54 SHEETS		WATER WBS B-1154
APPROVED: <i>[Signature]</i> 12/17/2012 FOR CITY ENGINEER		SEWER WBS B-1152
DESIGNED BY: JSM	DATE: 12/17/2012	CHECKED BY: JIM HUGHGOLY ASSOCIATE ENGINEER
BY: LLG	APPROVED: [ ]	DATE: [ ]
FILED: [ ]	PROJECT ENGINEER: BRIAN VITELLE	SEE CIVIL SHEETS CS27 COORDINATE
	SEE CIVIL SHEETS CS27 COORDINATE	CONTRACTOR: [ ]
	DATE STARTED: [ ]	DATE COMPLETED: [ ]
		36689-T29-D

**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.



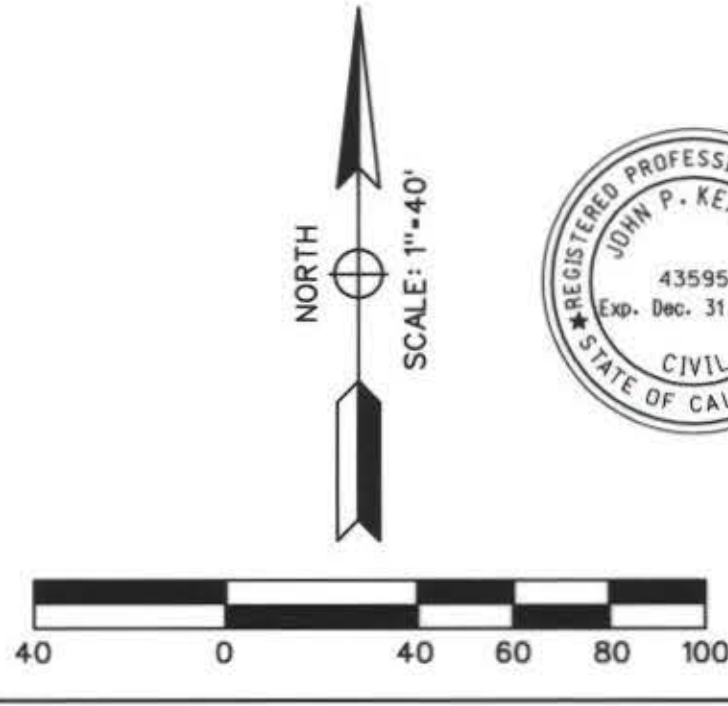
**ENGINEER OF WORK**

*[Signature]*  
JOHN P. KEATING R.C.E. 43595 DATE 11/19/12

**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
4542 Ruffner Street, Suite 100  
San Diego, Ca 92111  
(858)300-8800 (PH) (858)300-8810 (FX)

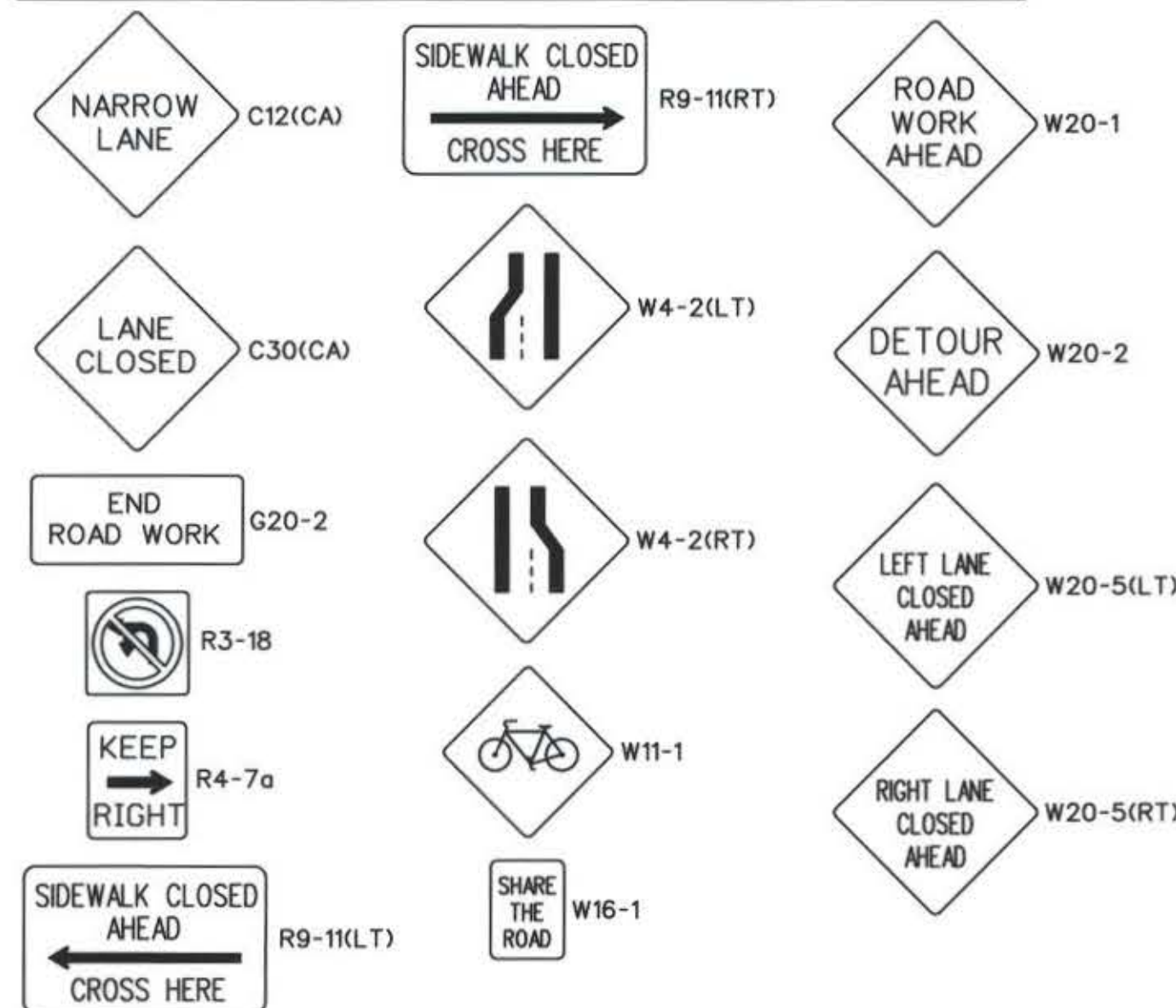
LLG 3-076350-49.1	TC29-6350-49STG28.DGN	11/19/12
Designed By: JSM	Drawn By: DVS	Checked By: JPK

**TRAFFIC CONTROL DESIGN SPEED**  
MARKET STREET = 25 MPH  
UNION STREET = 25 MPH





**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**

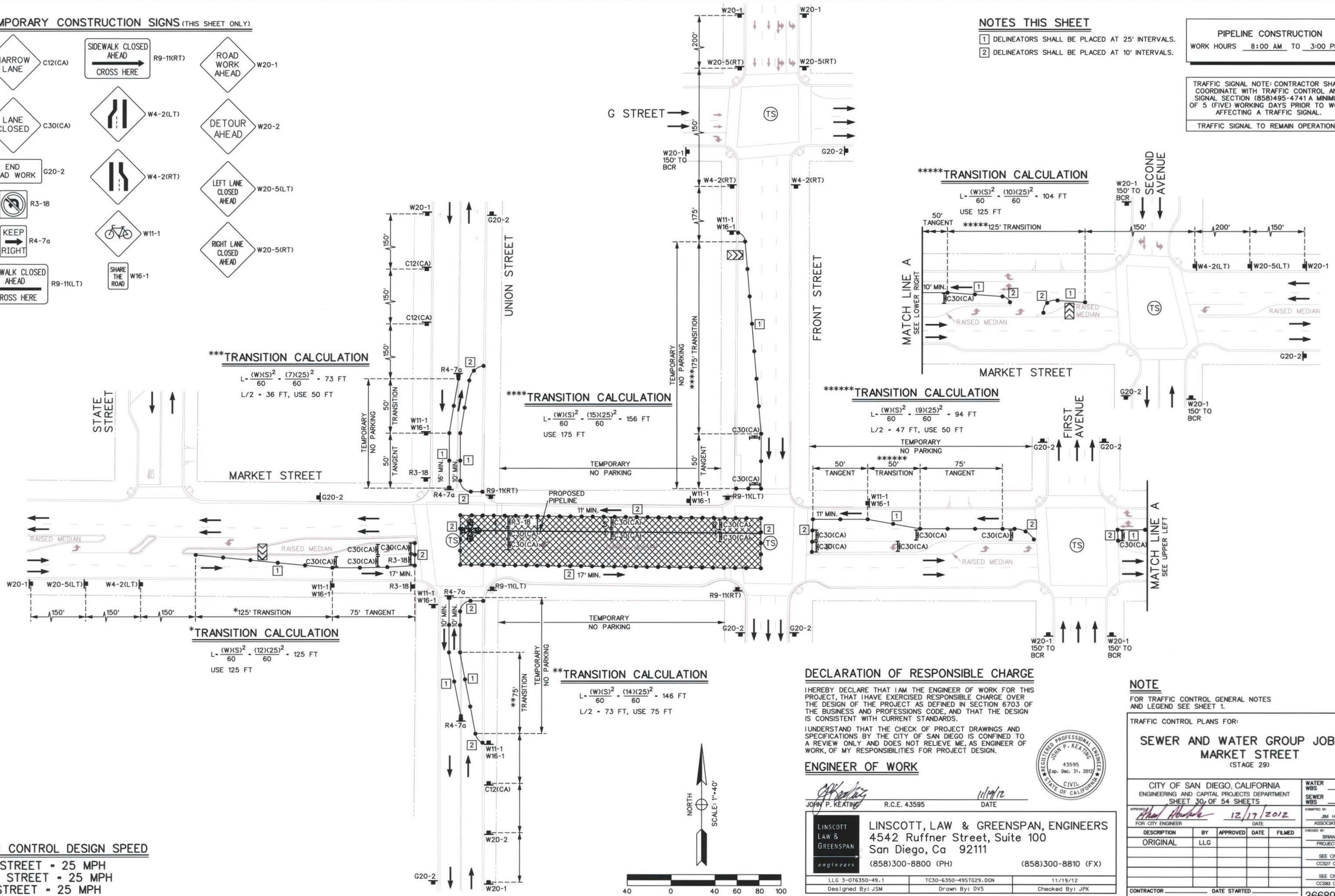


**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**TRAFFIC CONTROL DESIGN SPEED**  
 FRONT STREET = 25 MPH  
 MARKET STREET = 25 MPH  
 UNION STREET = 25 MPH

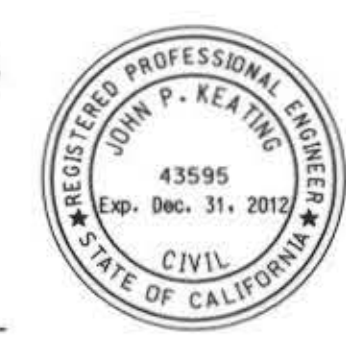
**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

**ENGINEER OF WORK**

JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC30-6350-49ST029.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-30

TRAFFIC CONTROL PLANS FOR:

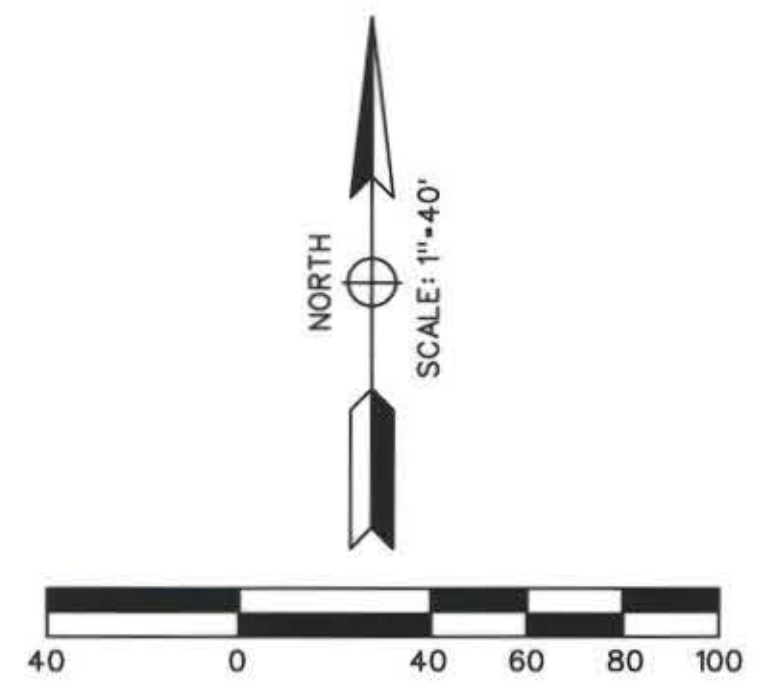
**SEWER AND WATER GROUP JOB 957**  
**MARKET STREET**  
 (STAGE 29)

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 30 OF 54 SHEETS		WATER WBS B-1154 SEWER WBS B-1152
APPROVED BY: <i>John Keating</i> FOR CITY ENGINEER	DATE: 12/17/2012	SUBMITTED BY: JIM HAGGOLY ASSOCIATE ENGINEER
DESIGNER: LLG	APPROVED: [Signature]	PROJECT ENGINEER: BRIAN VITELLE
DESCRIPTION: ORIGINAL	BY: LLG	DATE: [ ]
FILED: [ ]	DATE: [ ]	DATE: [ ]
CONTRACTOR: [ ]	DATE STARTED: [ ]	DATE COMPLETED: [ ]
INSPECTOR: [ ]	DATE STARTED: [ ]	DATE COMPLETED: [ ]

SEE CIVIL SHEETS CS27 COORDINATE  
 SEE CIVIL SHEETS CS83 COORDINATE

CONTRACTOR: [ ] DATE STARTED: [ ] DATE COMPLETED: [ ]  
 INSPECTOR: [ ] DATE STARTED: [ ] DATE COMPLETED: [ ]

36689-T30-D





\*\*\*\*\* TRANSITION CALCULATION

$$L = \frac{(W)(S)^2}{60} = \frac{(14)(25)^2}{60} = 145 \text{ FT}$$

USE 150 FT

\*\*\*\* TRANSITION CALCULATION

$$L = \frac{(W)(S)^2}{60} = \frac{(13)(25)^2}{60} = 135 \text{ FT}$$

USE 150 FT

\*\*\* TRANSITION CALCULATION

$$L = \frac{(W)(S)^2}{60} = \frac{(2)(25)^2}{60} = 21 \text{ FT}$$

L/2 = 11 FT, USE 25 FT

\*\* TRANSITION CALCULATION

$$L = \frac{(W)(S)^2}{60} = \frac{(9)(25)^2}{60} = 94 \text{ FT}$$

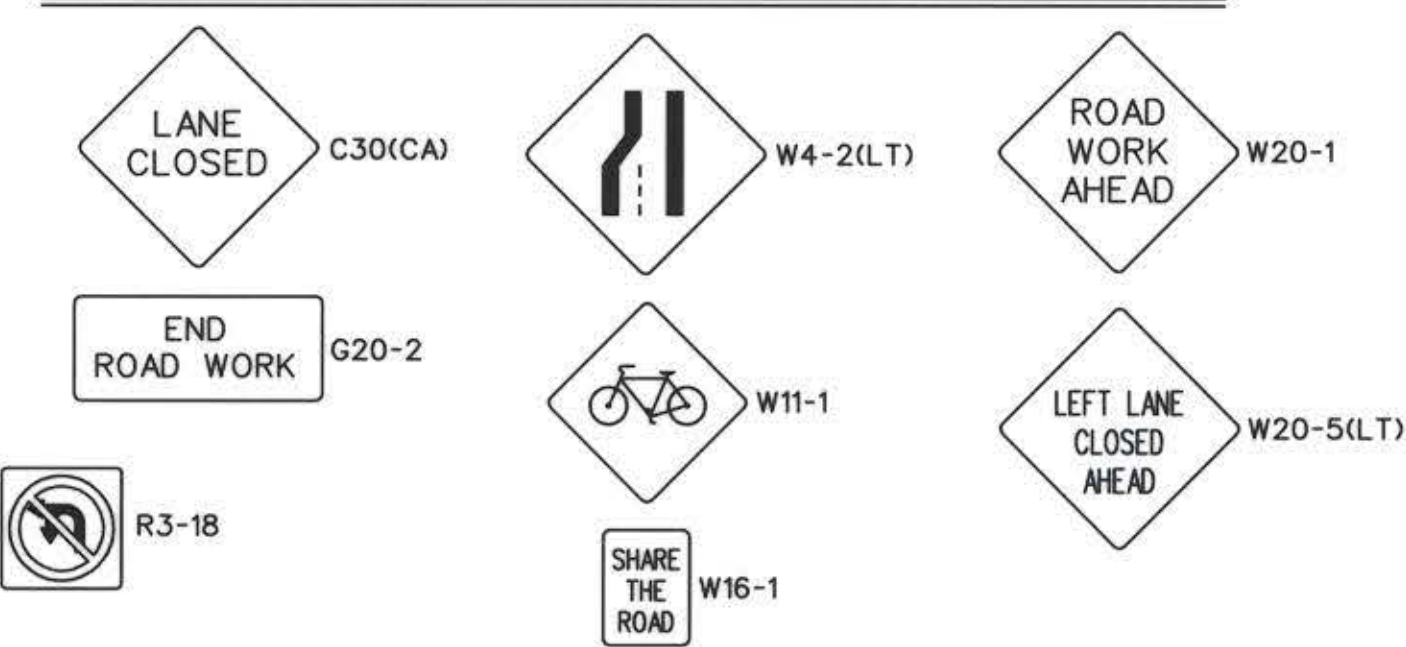
L/2 = 47 FT, USE 50 FT

\* TRANSITION CALCULATION

$$L = \frac{(W)(S)^2}{60} = \frac{(10)(25)^2}{60} = 104 \text{ FT}$$

USE 125 FT

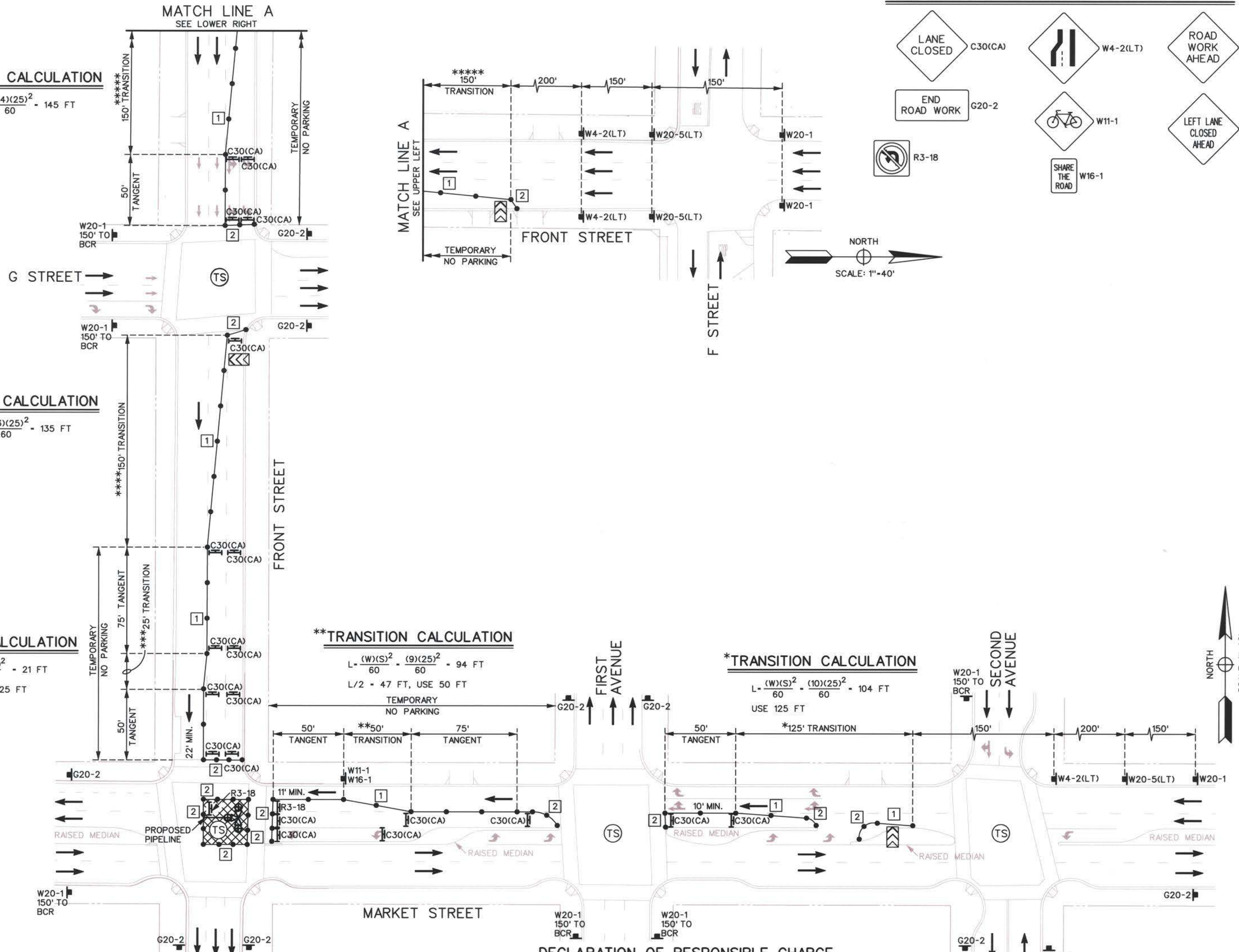
TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)



\*\*\*\*\* PIPELINE CONSTRUCTION \*\*\*\*\*  
 WORK HOURS 9:00 PM TO 5:00 AM  
 \*\*\*\*\* NIGHT WORK \*\*\*\*\*

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL SHALL BE SET TO RED FLASH AT FRONT STREET/MARKET STREET INTERSECTION  
 ALL OTHER TRAFFIC SIGNALS TO REMAIN OPERATIONAL AT OTHER INTERSECTIONS

NOTES THIS SHEET  
 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.  
 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.



DECLARATION OF RESPONSIBLE CHARGE

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

ENGINEER OF WORK

JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



LINSCOTT, LAW & GREENSPAN, ENGINEERS  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1	TC31-6350-49STG30.DGN	11/19/12
Designed By: JSM	Drawn By: DVS	Checked By: JPK

TRAFFIC CONTROL DESIGN SPEED  
 FRONT STREET = 25 MPH  
 MARKET STREET = 25 MPH

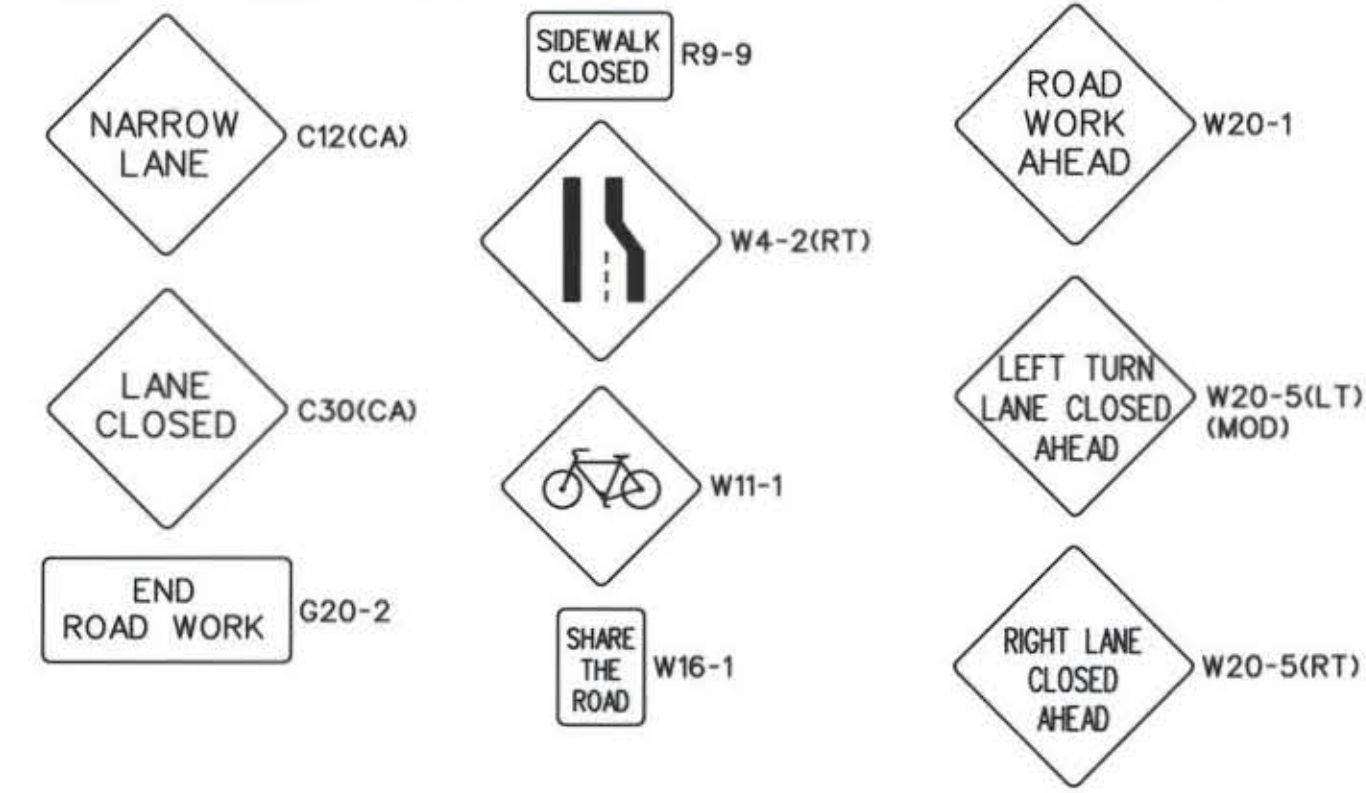


NOTE  
 FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1. T-31

TRAFFIC CONTROL PLANS FOR:				
SEWER AND WATER GROUP JOB 957 MARKET STREET (STAGE 30)				
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 31 OF 54 SHEETS	WATER WBS 8-1154 SEWER WBS 8-1152			
APPROVED: <i>John P. Keating</i> 12/17/2012 FOR CITY ENGINEER	DESIGNED BY: JIM HAGHGOLY ASSOCIATE ENGINEER			
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	LLG			
SEE CIVIL SHEETS CCS27 COORDINATE				
SEE CIVIL SHEETS CCS83 COORDINATE				
CONTRACTOR	DATE STARTED	36689-T31-D		
INSPECTOR	DATE COMPLETED			



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**

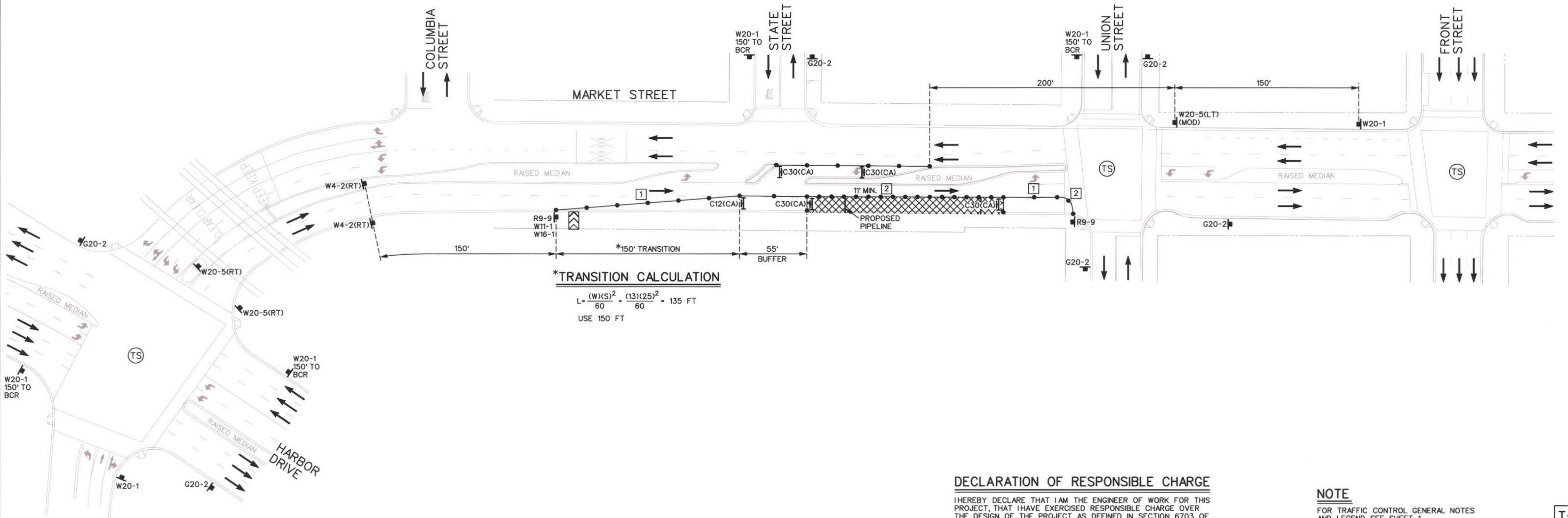


**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(13)(25)^2}{60} = 135 \text{ FT}$$

USE 150 FT

**TRAFFIC CONTROL DESIGN SPEED**  
 MARKET STREET = 25 MPH

**DECLARATION OF RESPONSIBLE CHARGE**

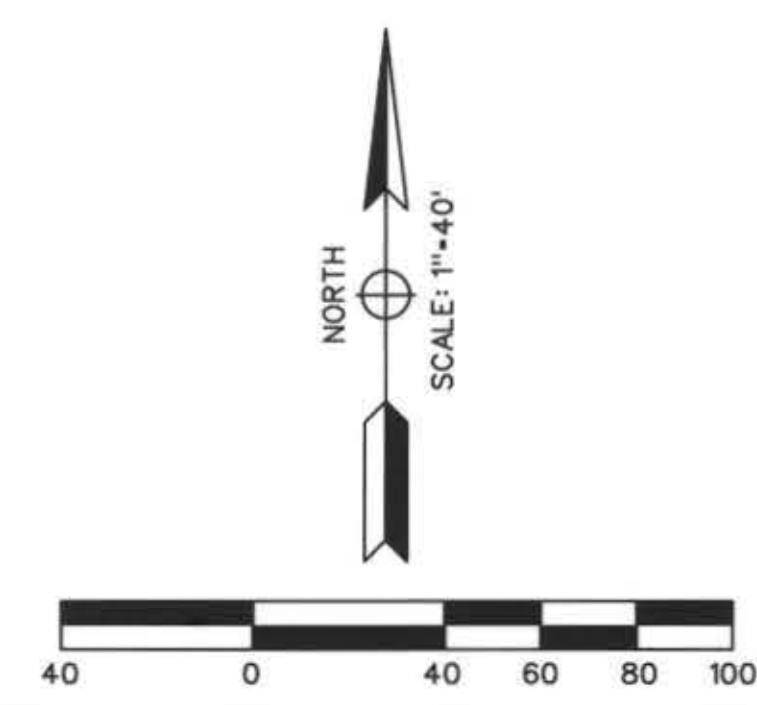
I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.  
 I UNDERSTAND THAT THE CHECK OF PROJECT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

**ENGINEER OF WORK**

*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)



**NOTE**

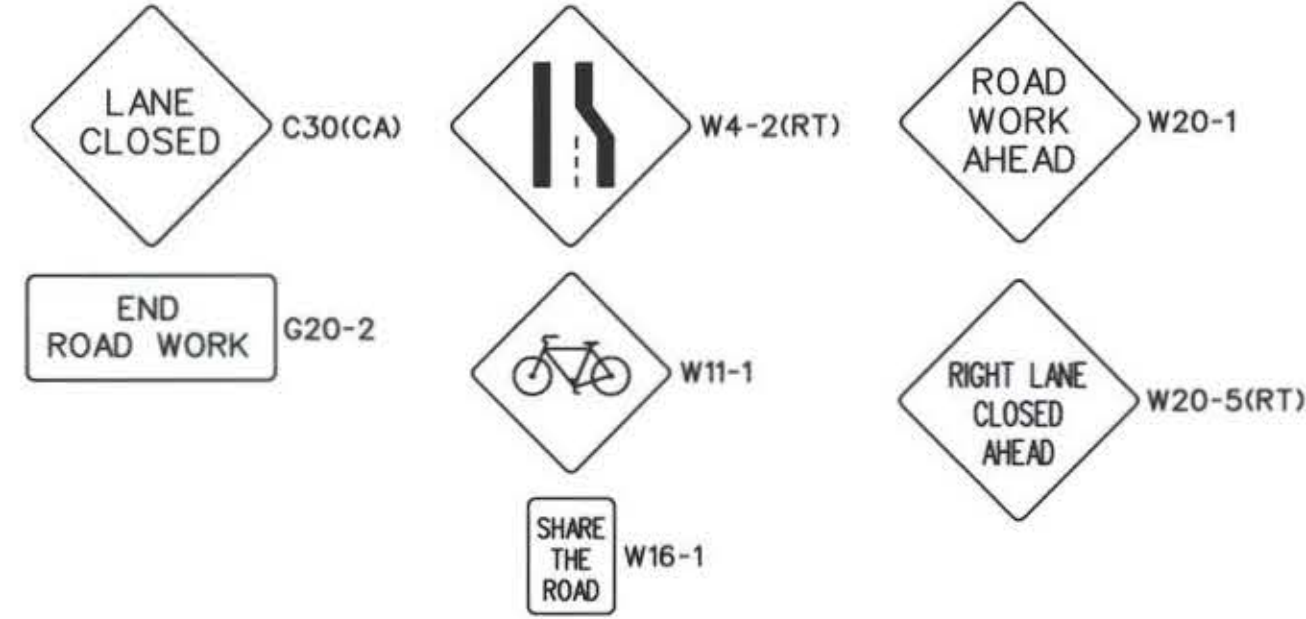
FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-32

TRAFFIC CONTROL PLANS FOR:				
<b>SEWER AND WATER GROUP JOB 957 MARKET STREET (STAGE 31)</b>				
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 32 OF 54 SHEETS			WATER WBS B-11154	
SUBMITTED BY: <i>John P. Keating</i> 12/17/2012			SEWER WBS B-11152	
FOR CITY ENGINEER	BY	APPROVED	DATE	FILMED
ORIGINAL	LLG			
CHECKED BY: BRIAN VITELLE			ASSOCIATE ENGINEER	
SEE CIVIL SHEETS CCS27 COORDINATE				
SEE CIVIL SHEETS CCS83 COORDINATE				
CONTRACTOR	DATE STARTED	36689-T32-D		
INSPECTOR	DATE COMPLETED			



TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)

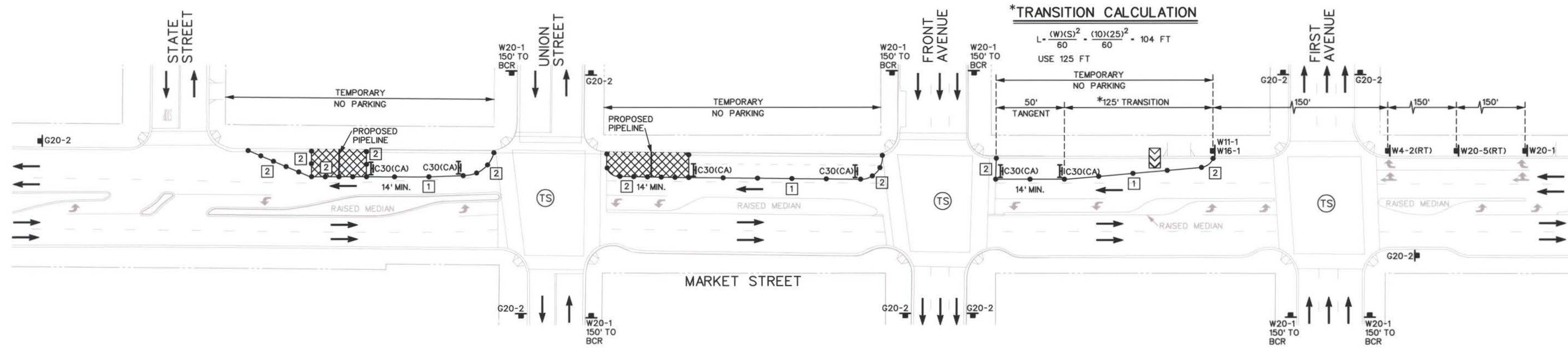


NOTES THIS SHEET

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

PIPELINE CONSTRUCTION  
WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
TRAFFIC SIGNAL TO REMAIN OPERATIONAL



\*TRANSITION CALCULATION

$$L = \frac{(W)(S)^2}{60} + \frac{(10)(25)^2}{60} = 104 \text{ FT}$$

USE 125 FT

DECLARATION OF RESPONSIBLE CHARGE

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

ENGINEER OF WORK

JOHN P. KEATING R.C.E. 43595 DATE 11/17/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
4542 Ruffner Street, Suite 100  
San Diego, Ca 92111  
(858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1	TC33-6350-495TG32.DGN	11/19/12
Designed By: JSM	Drawn By: DVS	Checked By: JPK

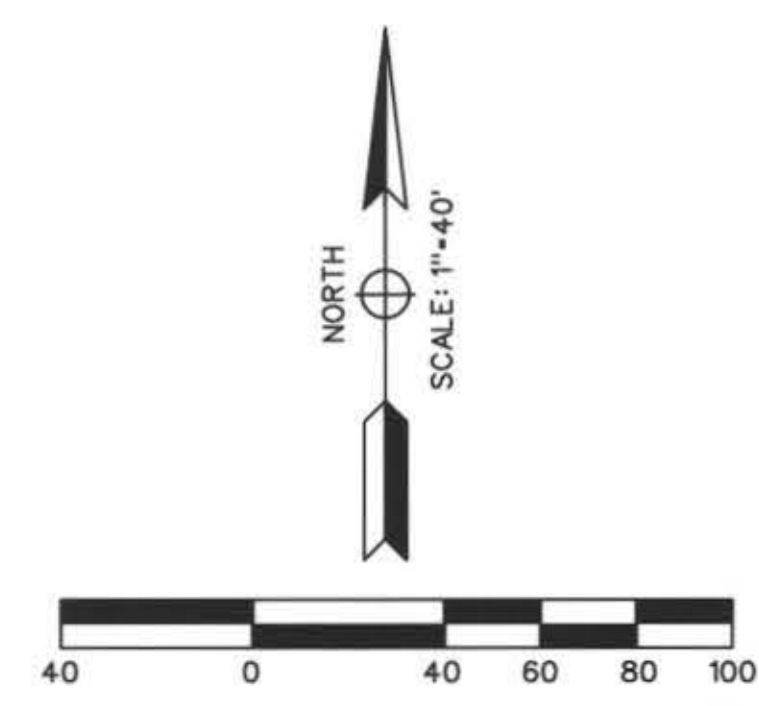
NOTE

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-33

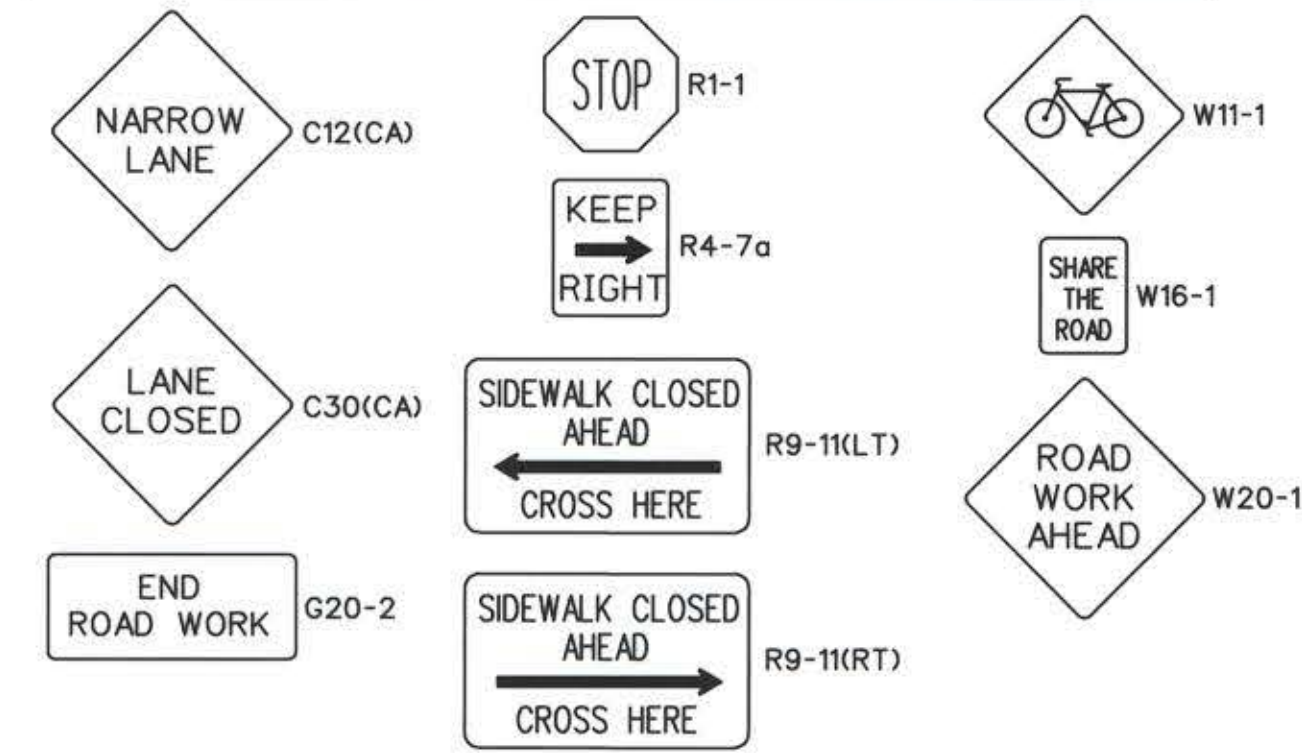
TRAFFIC CONTROL PLANS FOR:			
<b>SEWER AND WATER GROUP JOB 957 MARKET STREET (STAGE 32)</b>			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 33 OF 54 SHEETS		WATER WBS B-1154 SEWER WBS B-1152	
FOR CITY ENGINEER	DATE	APPROVED BY	DATE
<i>John P. Keating</i>	12/17/2012	JIM HADJIGOLY	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	LLG		
FOR PROJECT ENGINEER		DATE	
BRIAN VITELLE			
PROJECT ENGINEER			
SEE CIVIL SHEETS			
OCS27 COORDINATE			
SEE CIVIL SHEETS			
OCS28 COORDINATE			
CONTRACTOR	DATE STARTED	36689-T33-D	
INSPECTOR	DATE COMPLETED		

TRAFFIC CONTROL DESIGN SPEED  
MARKET STREET = 25 MPH





TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)

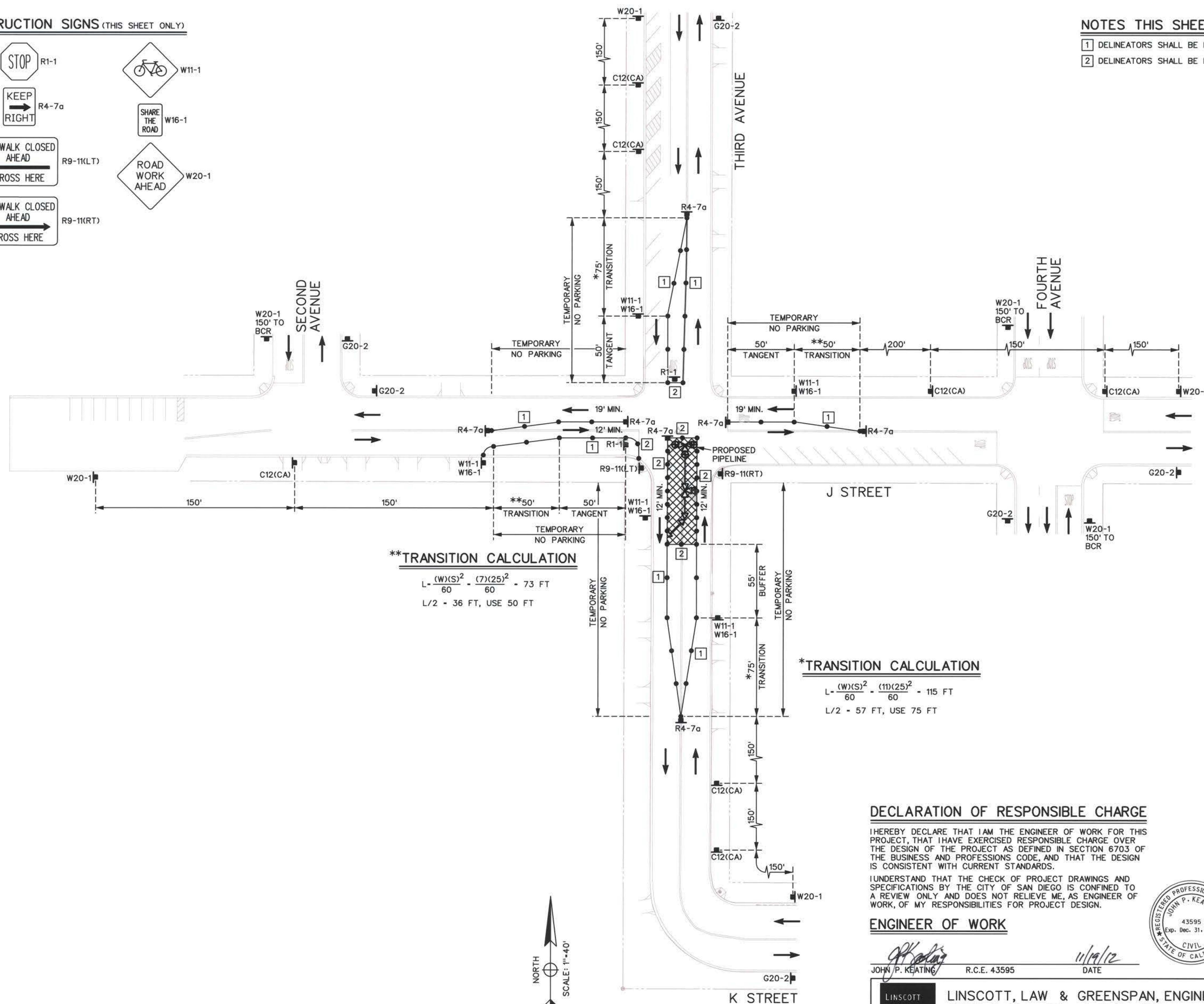


NOTES THIS SHEET

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

PIPELINE CONSTRUCTION  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**\*\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(7)(25)^2}{60} = 73 \text{ FT}$$

$$L/2 = 36 \text{ FT, USE } 50 \text{ FT}$$

**\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(11)(25)^2}{60} = 115 \text{ FT}$$

$$L/2 = 57 \text{ FT, USE } 75 \text{ FT}$$

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

ENGINEER OF WORK

*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1	TC34-6350-49STG33.DGN	11/19/12
Designed By: JSM	Drawn By: DVS	Checked By: JPK

NOTE

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-34

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957**  
**THIRD AVENUE**  
 (STAGE 33)

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 34 OF 54 SHEETS		WATER WBS B-1154 SEWER WBS B-1152
APPROVED BY: <i>John P. Keating</i> FOR CITY ENGINEER	DATE: 12/17/2012	DESIGNED BY: JIM HAGHGOULY ASSOCIATE ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	LLG	
CONTRACTOR	DATE STARTED	36689-T34-D
INSPECTOR	DATE COMPLETED	

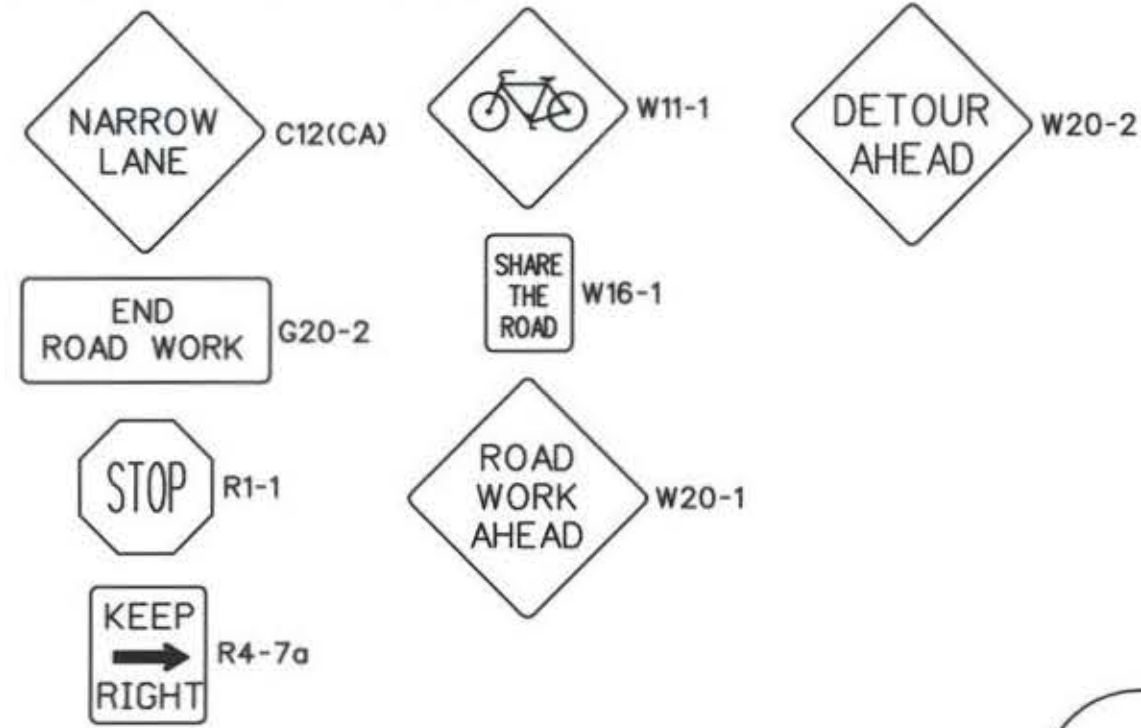
TRAFFIC CONTROL DESIGN SPEED

J STREET = 25 MPH  
 THIRD AVENUE = 25 MPH





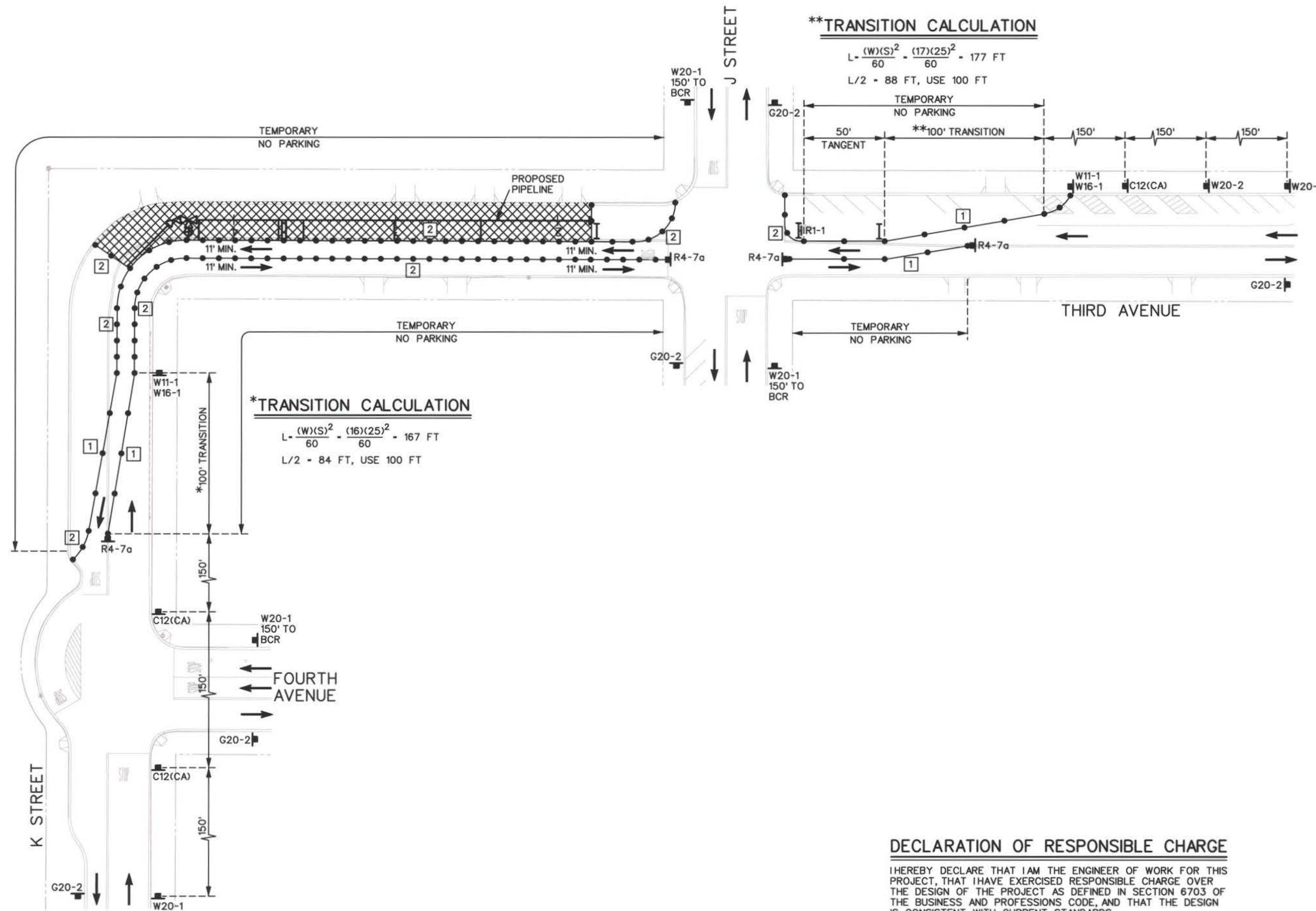
TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)



NOTES THIS SHEET

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

PIPELINE CONSTRUCTION  
WORK HOURS 8:00 AM TO 3:00 PM



DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

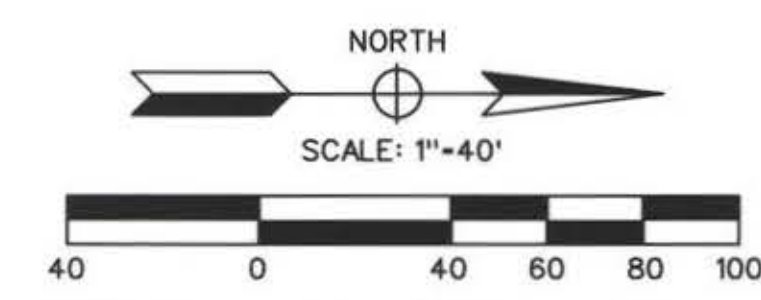
ENGINEER OF WORK

JOHN P. KEATING R.C.E. 43595 DATE 11/17/12



LINSCOTT, LAW & GREENSPAN, ENGINEERS  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC35-6350-49STG34.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK



TRAFFIC CONTROL DESIGN SPEED

K STREET = 25 MPH  
 THIRD STREET = 25 MPH

NOTE

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

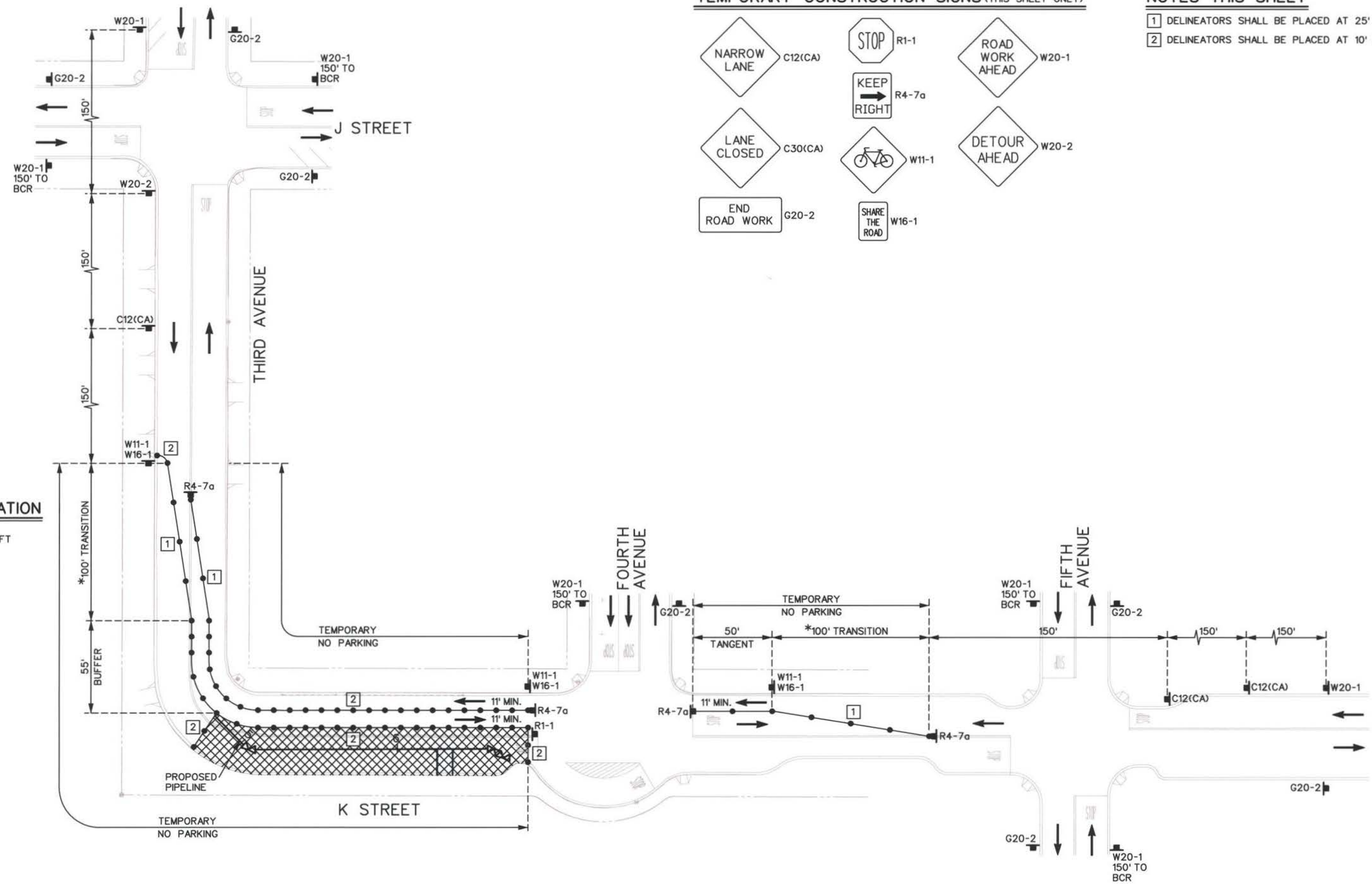
T-35

TRAFFIC CONTROL PLANS FOR:

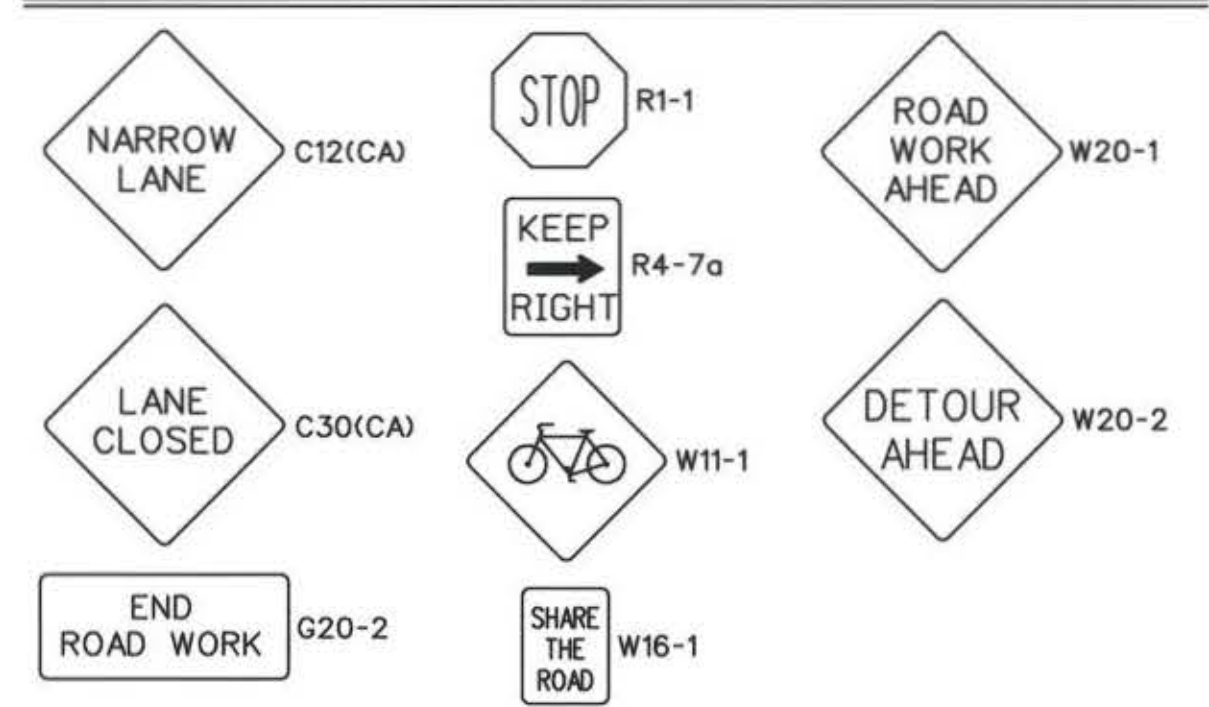
SEWER AND WATER GROUP JOB 957  
 THIRD AVENUE  
 (STAGE 34)

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 35 OF 54 SHEETS		WATER WBS 8-11154 SEWER WBS 8-11152
APPROVED FOR CITY ENGINEER	DATE 12/17/2012	SUBMITTED BY JIM HAGHSOLY ASSOCIATE ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	LLG	
CREATED BY BRIAN VITELLE PROJECT ENGINEER		SEE CIVIL SHEETS CC327 COORDINATE
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
		36689-T35-D





**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**



**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL

**\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(16)(25)^2}{60} = 167 \text{ FT}$$

$$L/2 = 84 \text{ FT, USE 100 FT}$$

**DECLARATION OF RESPONSIBLE CHARGE**

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

**ENGINEER OF WORK**

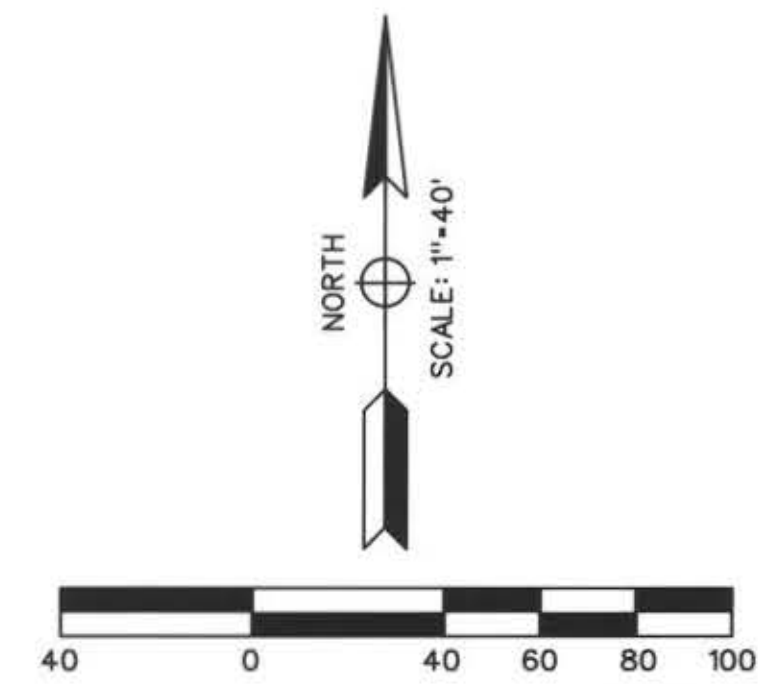
JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1	TC36-6350-495TG35.DGN	11/19/12
Designed By: JSM	Drawn By: DVS	Checked By: JPK

**TRAFFIC CONTROL DESIGN SPEED**  
 K STREET = 25 MPH  
 THIRD AVENUE = 25 MPH



**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1. T-36

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957**  
**THIRD AVENUE**  
 (STAGE 35)

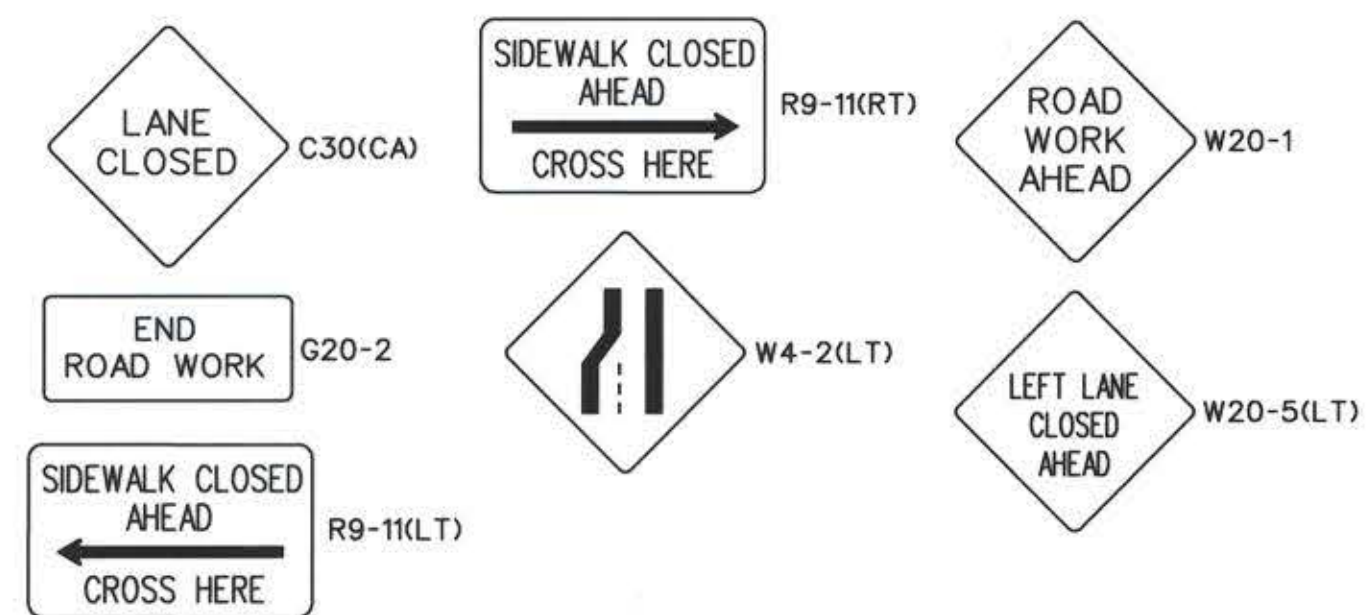
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 36 OF 54 SHEETS	WATER WBS B-1154 SEWER WBS B-1152
FOR CITY ENGINEER: <i>John P. Keating</i> DATE: 12/17/2012	DESIGNED BY: JIM HAGGOUY ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL BY: LLG	CHECKED BY: IRVAN VITELLE PROJECT ENGINEER
	SEE CIVIL SHEETS CCS27 COORDINATE
	SEE CIVIL SHEETS CCS83 COORDINATE
CONTRACTOR: _____ DATE STARTED: _____	36689-T36-D
INSPECTOR: _____ DATE COMPLETED: _____	







TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)

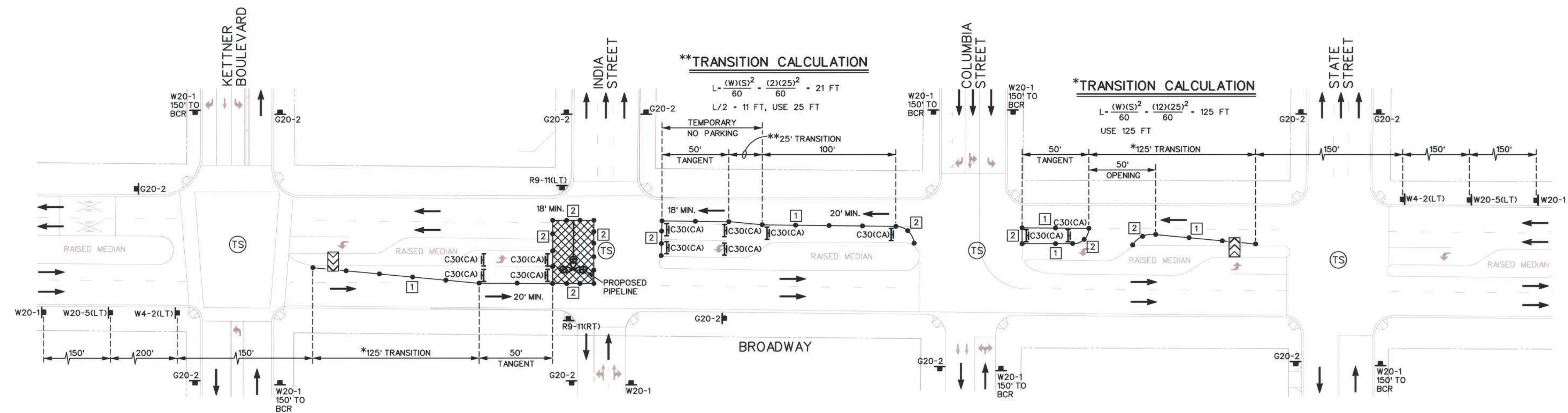


NOTES THIS SHEET

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

\*\*\*\*\*  
 PIPELINE CONSTRUCTION  
 WORK HOURS 9:00 PM TO 5:00 AM  
 \*\*\*\*\*  
 \*\*\*\*\*NIGHT WORK\*\*\*\*\*

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL SHALL BE SET TO RED FLASH AT INDIA STREET/MARKET STREET INTERSECTION  
 ALL OTHER TRAFFIC SIGNALS TO REMAIN OPERATIONAL AT OTHER INTERSECTIONS



DECLARATION OF RESPONSIBLE CHARGE

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

ENGINEER OF WORK

*John P. Keating*  
 JOHN P. KEATING / R.C.E. 43595 / DATE 11/19/12



LINSCOTT, LAW & GREENSPAN, ENGINEERS  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC38-6350-49STG37.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK



TRAFFIC CONTROL DESIGN SPEED  
 BROADWAY = 25 MPH

NOTE

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1. T-38

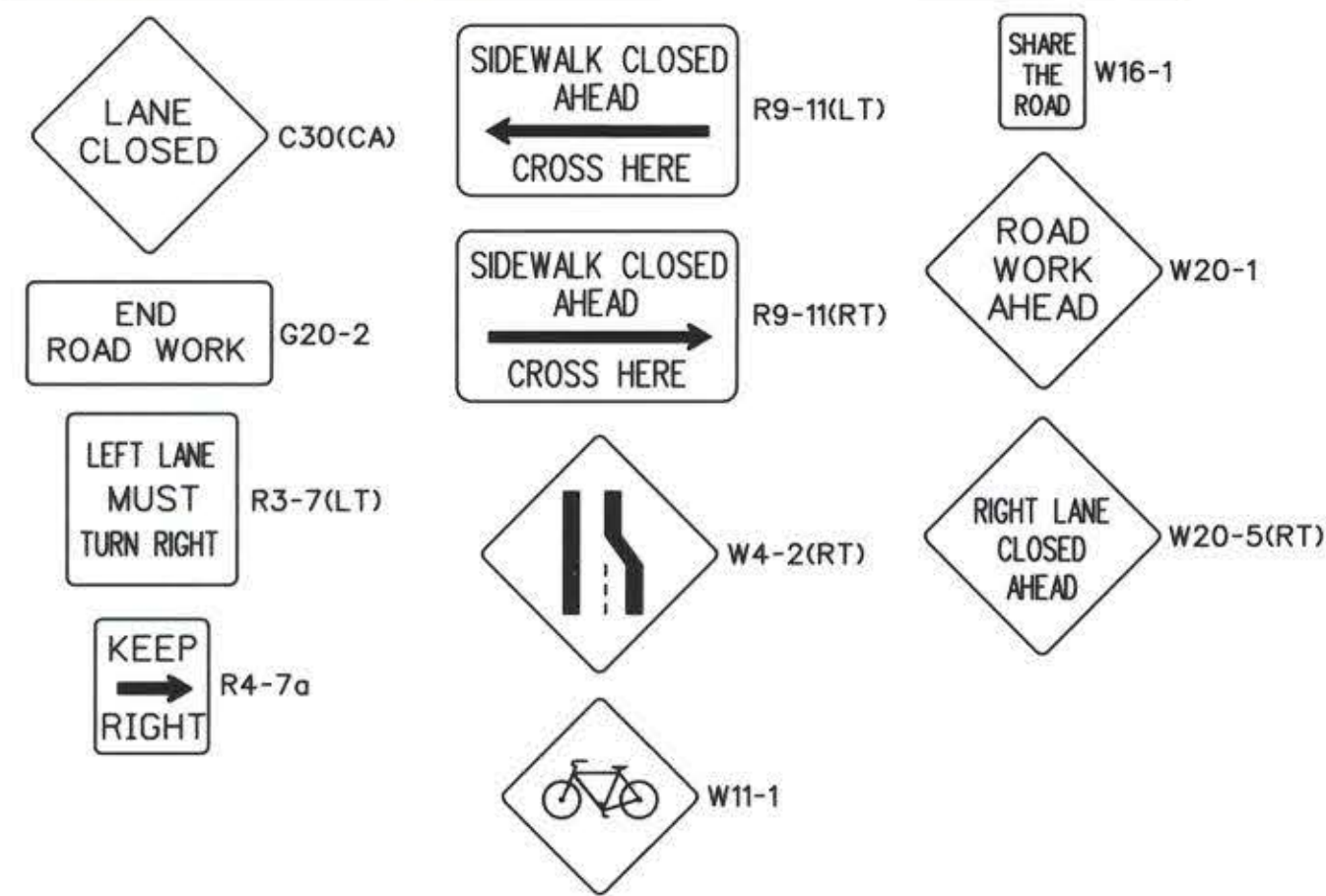
TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957  
 INDIA STREET  
 (STAGE 37)**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 38 OF 54 SHEETS	WATER WBS B-1154 SEWER WBS B-1152
APPROVED FOR CITY ENGINEER: <i>Handwritten Signature</i> DATE: 12/17/2012	DESIGNED BY: JIM HUGHGOLY ASSOCIATE ENGINEER
DESCRIPTION BY: L.L.G.	CHECKED BY: BRIAN VITELLE PROJECT ENGINEER
APPROVED DATE FILMED	SEE CIVIL SHEETS CCS27 COORDINATE
	SEE CIVIL SHEETS CCS83 COORDINATE
CONTRACTOR: _____ DATE STARTED: _____	36689-T38-D
INSPECTOR: _____ DATE COMPLETED: _____	



TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)

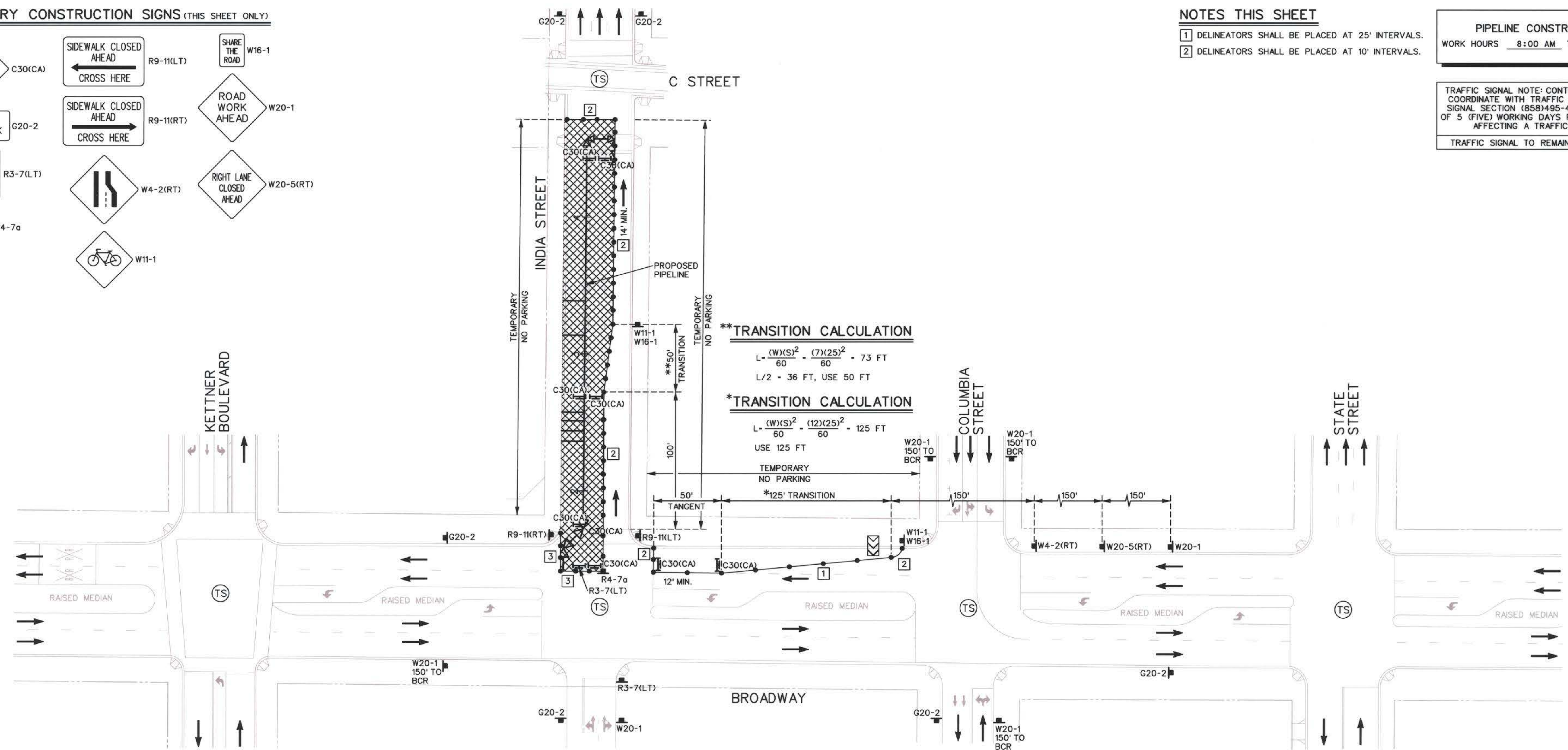


NOTES THIS SHEET

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

PIPELINE CONSTRUCTION  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL.



\*\*TRANSITION CALCULATION

$$L = \frac{(W)(S)^2}{60} = \frac{(7)(25)^2}{60} = 73 \text{ FT}$$

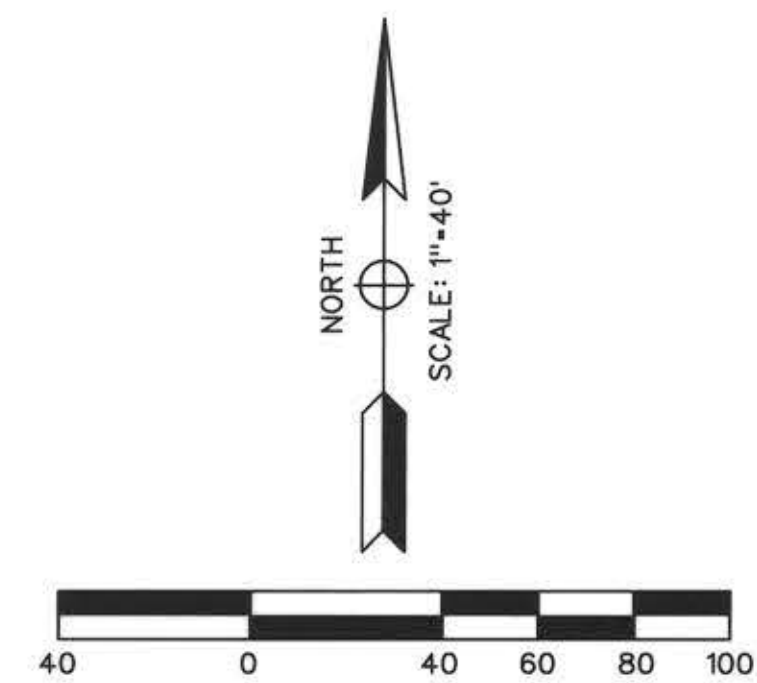
$$L/2 = 36 \text{ FT, USE } 50 \text{ FT}$$

\*TRANSITION CALCULATION

$$L = \frac{(W)(S)^2}{60} = \frac{(12)(25)^2}{60} = 125 \text{ FT}$$

$$\text{USE } 125 \text{ FT}$$

TRAFFIC CONTROL DESIGN SPEED  
 BROADWAY = 25 MPH  
 INDIA STREET = 25 MPH



DECLARATION OF RESPONSIBLE CHARGE

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

ENGINEER OF WORK

JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



LINSCOTT, LAW & GREENSPAN, ENGINEERS  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1	TC39-6350-495TG38.DGN	11/19/12
Designed By: JSM	Drawn By: DVS	Checked By: JPK

NOTE

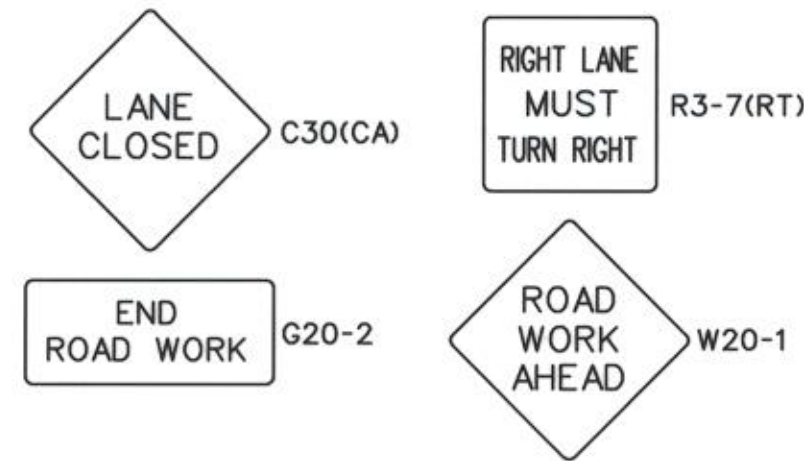
FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-39

TRAFFIC CONTROL PLANS FOR:		WATER WBS B-1154	
SEWER AND WATER GROUP JOB 957		SEWER WBS B-1152	
INDIA STREET			
(STAGE 3B)			
CITY OF SAN DIEGO, CALIFORNIA		ENGINEERING AND CAPITAL PROJECTS DEPARTMENT	
SHEET 39 OF 54 SHEETS		DATE 12/17/2012	
APPROVED BY: <i>John P. Keating</i>	FOR CITY ENGINEER	DATE	FILED
DESIGNED BY: JIM HUGHOUY	ASSOCIATE ENGINEER		
CHECKED BY: BRIAN VITELLE	PROJECT ENGINEER		
SEE CIVIL SHEETS	CCS27 COORDINATE		
SEE CIVIL SHEETS	CCS83 COORDINATE		
CONTRACTOR	DATE STARTED	36689-T39-D	
INSPECTOR	DATE COMPLETED		



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**

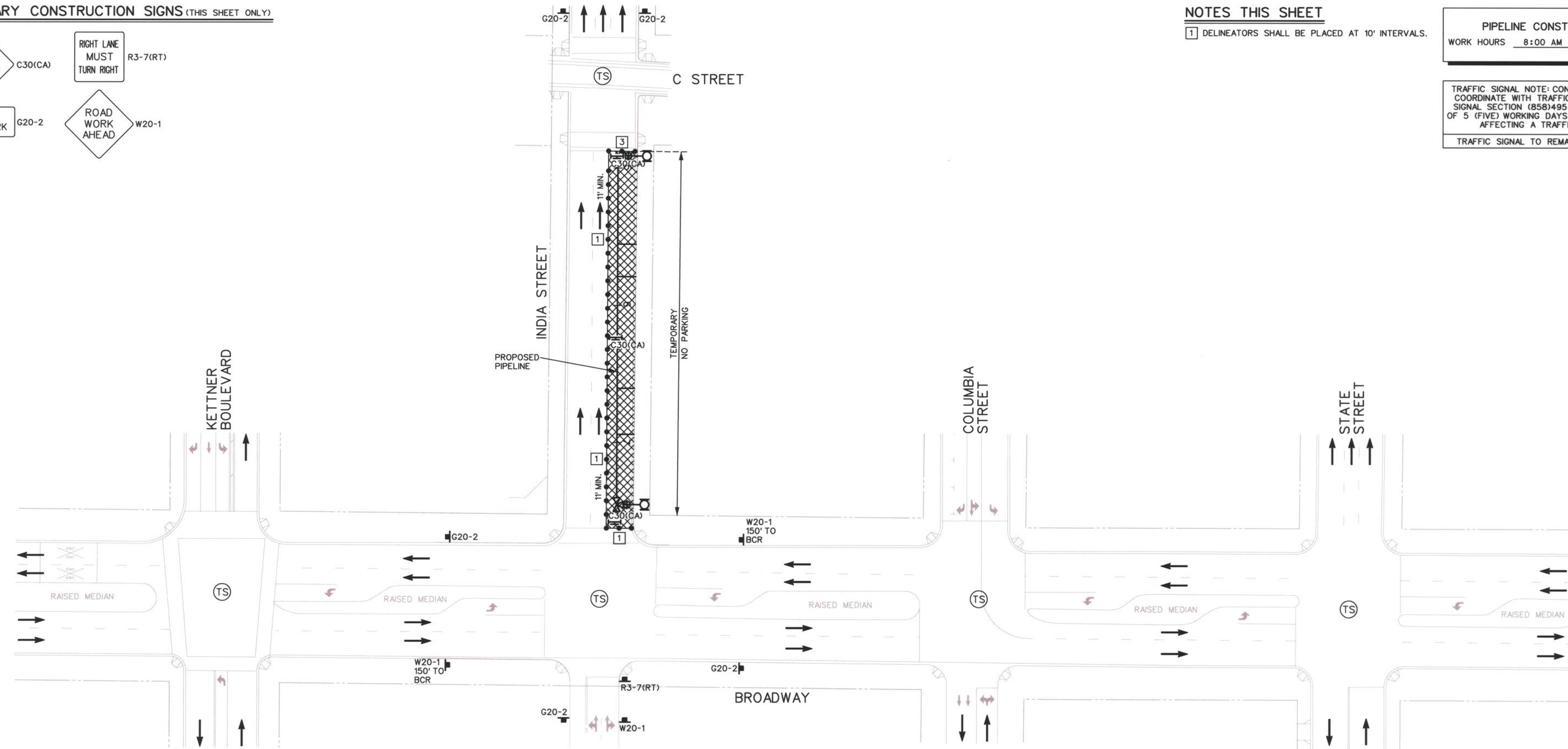


**NOTES THIS SHEET**

1 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

**ENGINEER OF WORK**

*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE 11/9/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1	TC40-6350-495T039.DGN	11/19/12
Designed By: JSM	Drawn By: DVS	Checked By: JPK

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

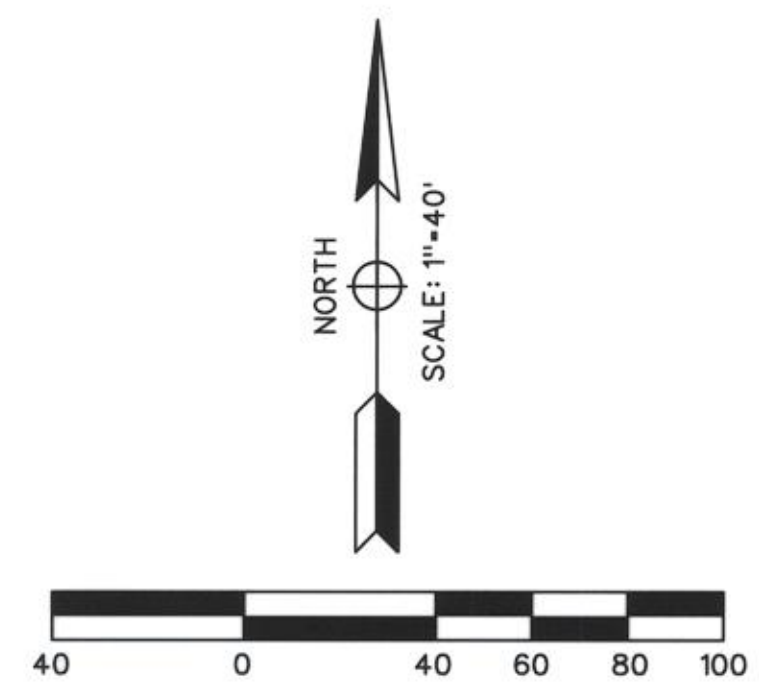
T-40

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957**  
**INDIA STREET**  
 (STAGE 39)

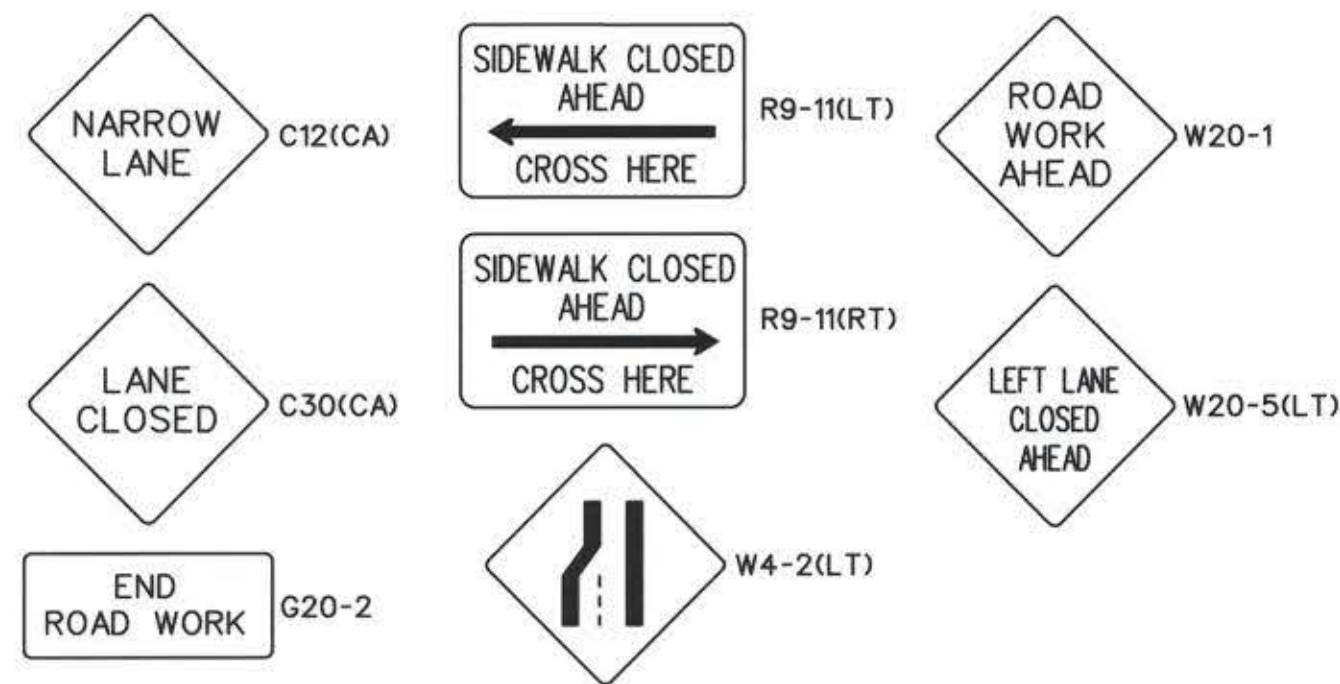
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 40 OF 54 SHEETS		WATER WBS B-1154 SEWER WBS B-1152
APPROVED BY: <i>John P. Keating</i> FOR CITY ENGINEER	DATE: 12/17/2012	FORWARDED BY: JIM HAGHIGOLY ASSOCIATE ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	LLG	
CONTRACTOR	DATE STARTED	36689-T40-D
INSPECTOR	DATE COMPLETED	

**TRAFFIC CONTROL DESIGN SPEED**  
 INDIA STREET = 25 MPH





**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**

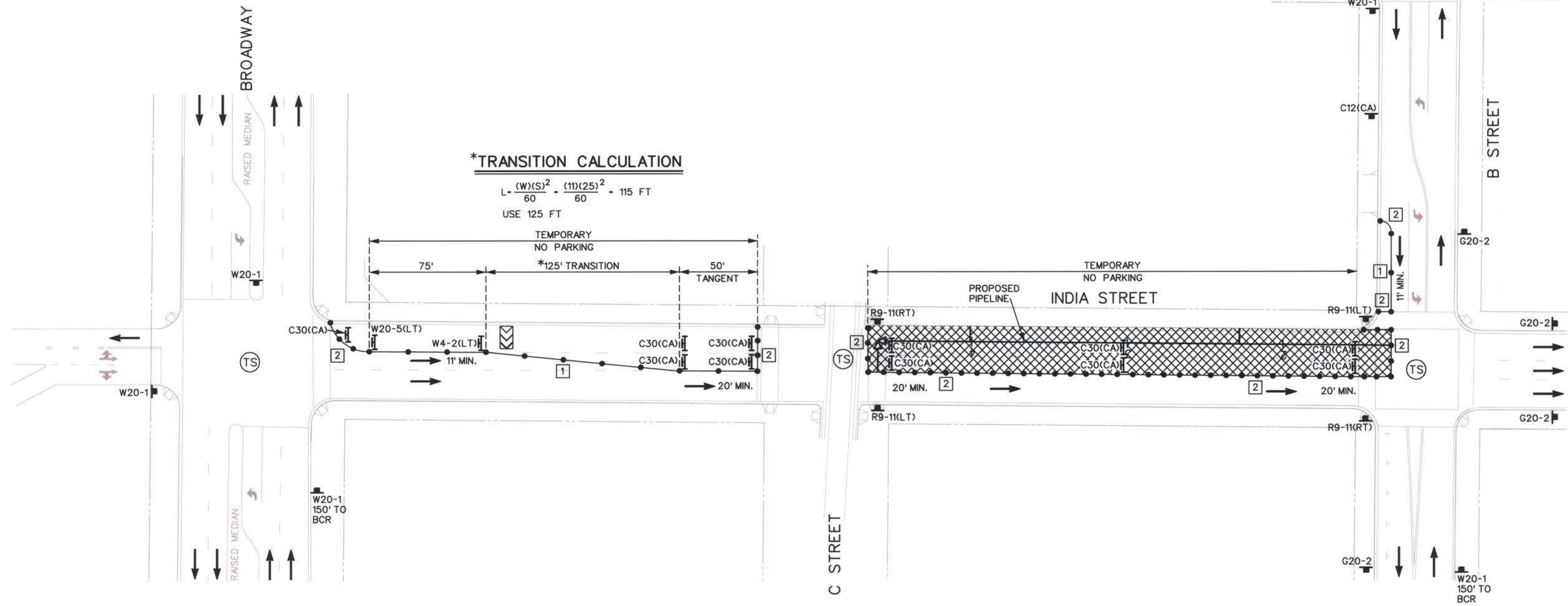


**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(11)(25)^2}{60} = 115 \text{ FT}$$

USE 125 FT

**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

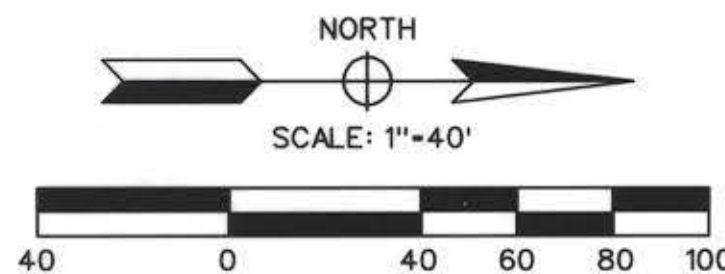
I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

**ENGINEER OF WORK**

*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)



**TRAFFIC CONTROL DESIGN SPEED**  
 INDIA STREET = 25 MPH

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-41

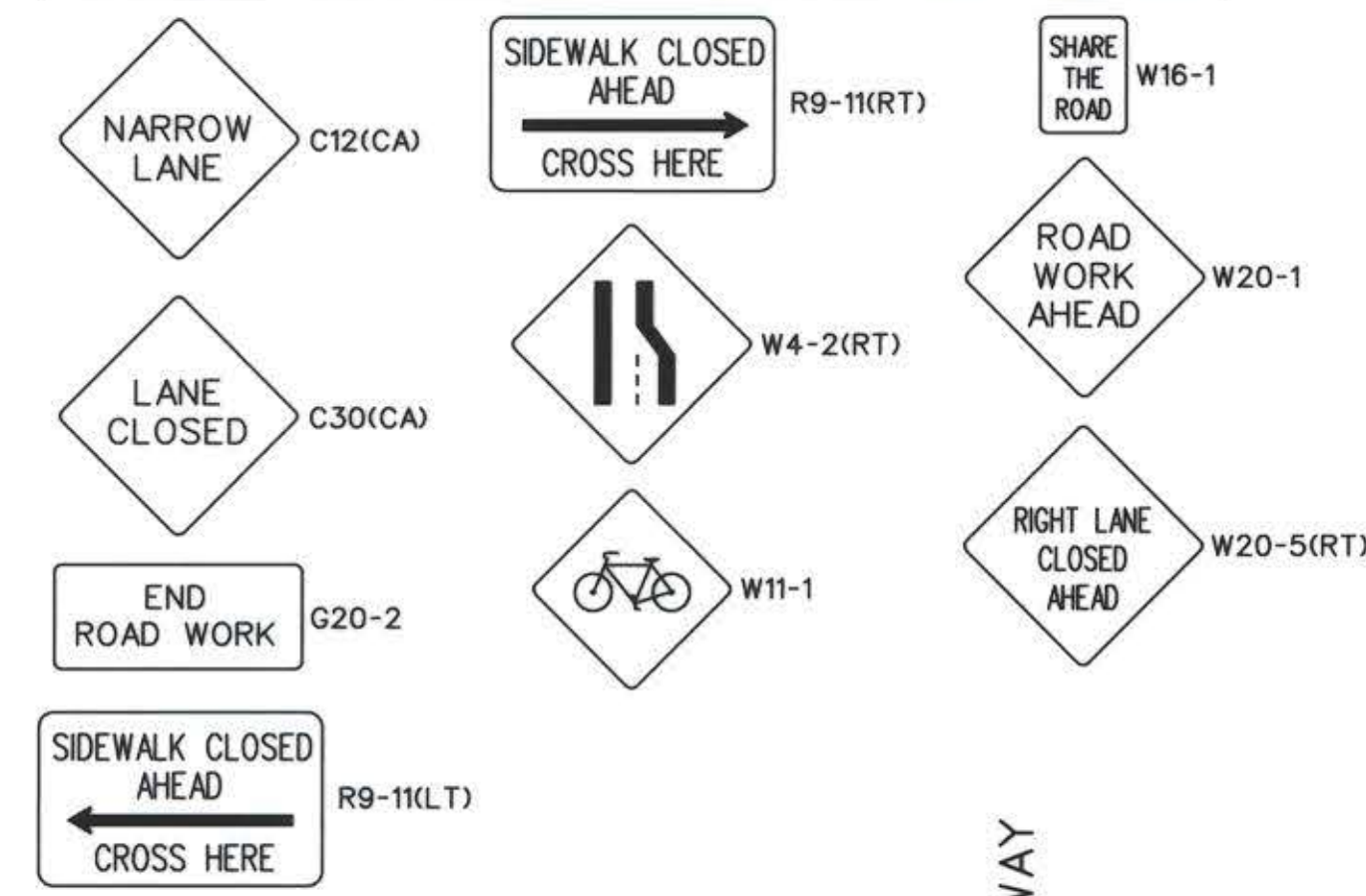
TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957**  
**INDIA STREET**  
 (STAGE 40)

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 41 OF 54 SHEETS				WATER WBS B-1154 SEWER WBS B-1152
DATE 12/17/2012				SUBMITTED BY: JIM HAGHOOLY ASSOCIATE ENGINEER
FOR CITY ENGINEER	BY	APPROVED	DATE	FILMED
ORIGINAL	LLG			
CHECKED BY: SPAN VITELLE PROJECT ENGINEER				SEE CIVIL SHEETS CC827 COORDINATE
CONTRACTOR				36689-T41-D
DATE STARTED				DATE COMPLETED



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**

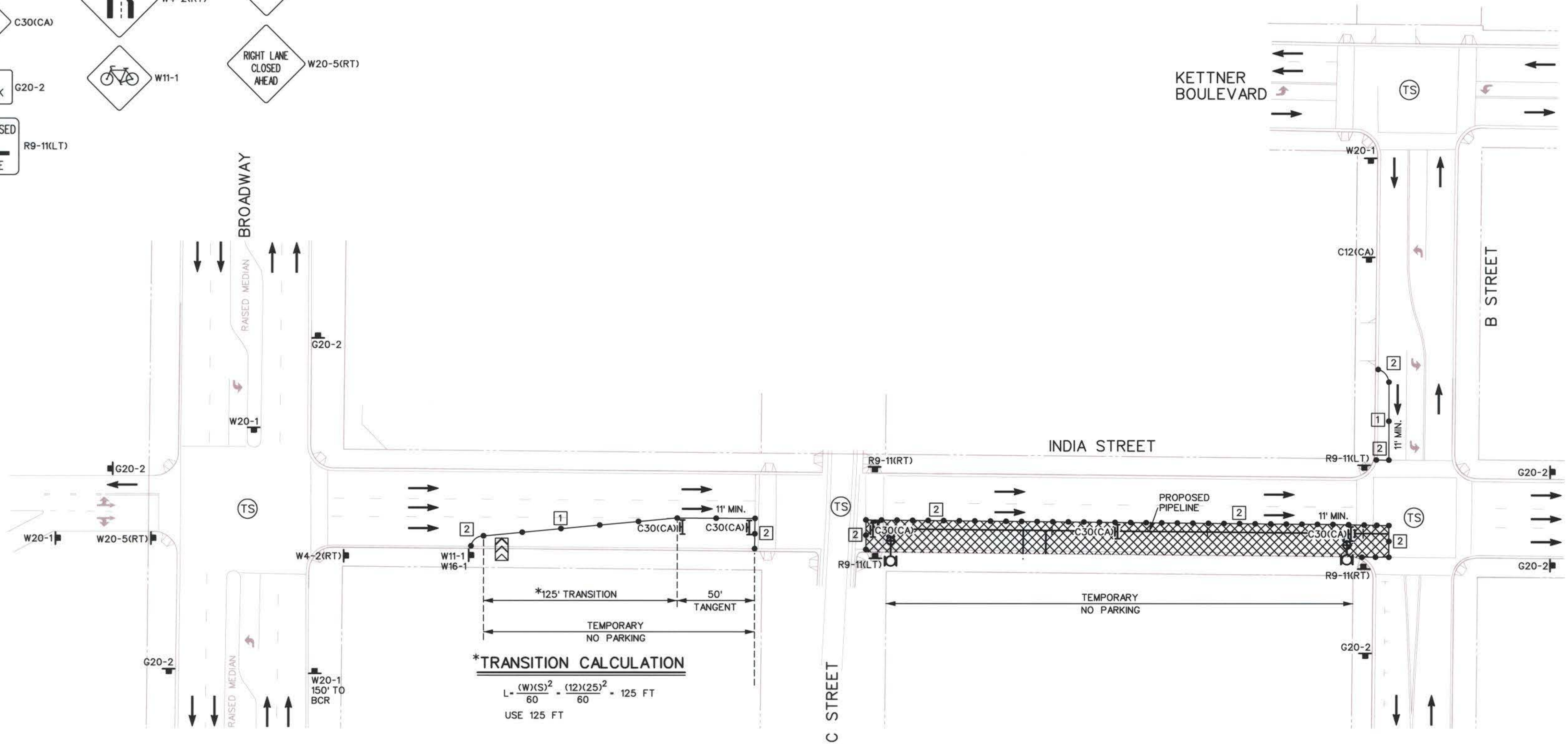


**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**DECLARATION OF RESPONSIBLE CHARGE**

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

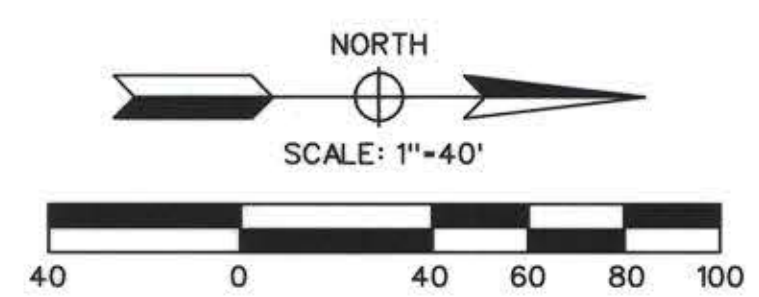
**ENGINEER OF WORK**

JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC42-6350-49STG41.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK



**TRAFFIC CONTROL DESIGN SPEED**  
 INDIA STREET = 25 MPH

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-42

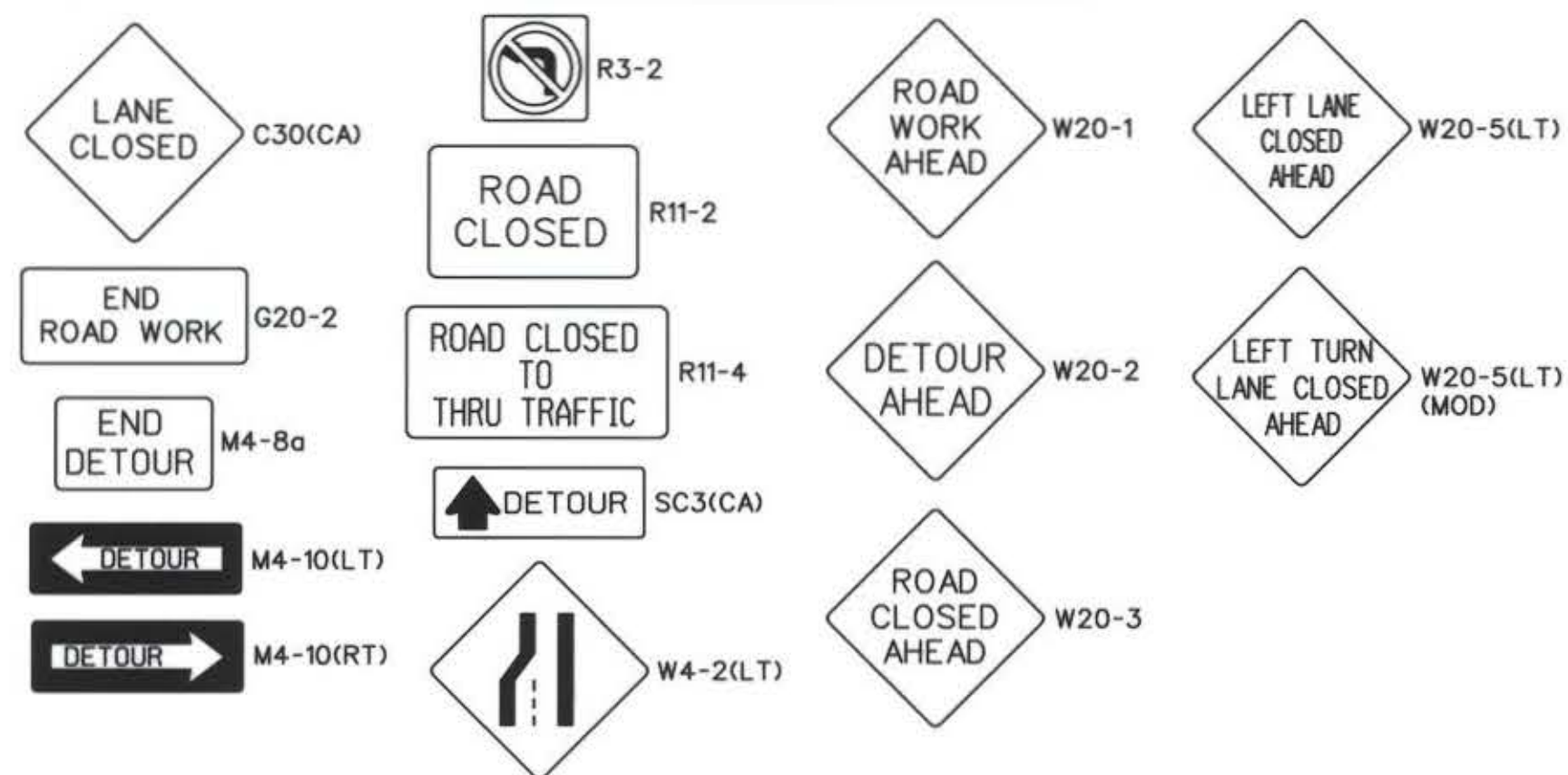
TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957**  
 INDIA STREET  
 (STAGE 41)

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 42 OF 54 SHEETS	WATER WBS B-11154 SEWER WBS B-11152			
APPROVED BY: FOR CITY ENGINEER DATE: 12/17/2012	DESIGNED BY: JIM HAGHGOULY ASSOCIATE ENGINEER			
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	LLG			
CONTRACTOR	DATE STARTED	36689-T42-D		
INSPECTOR	DATE COMPLETED			



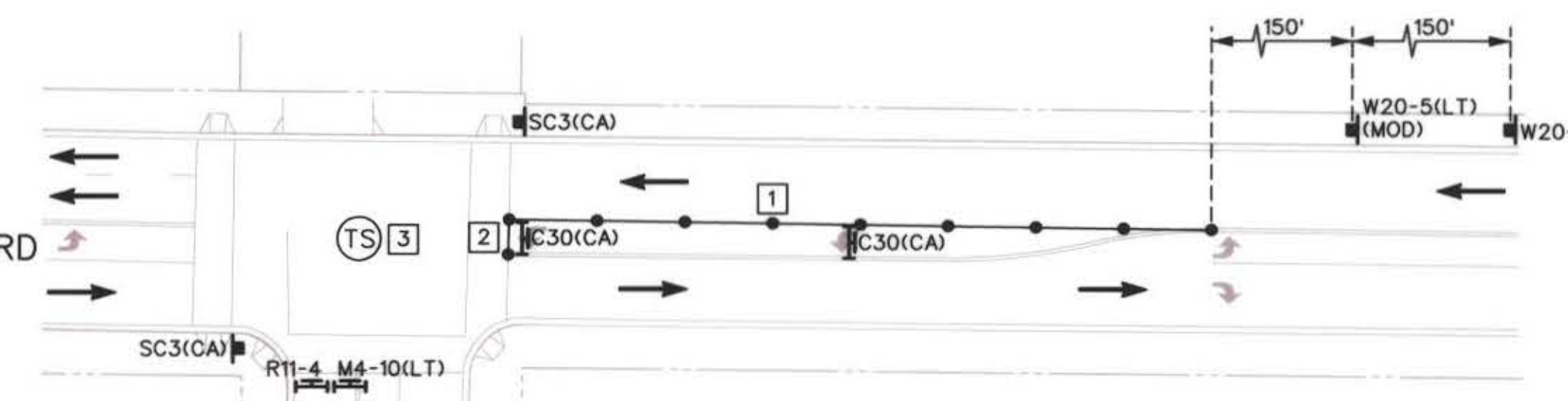
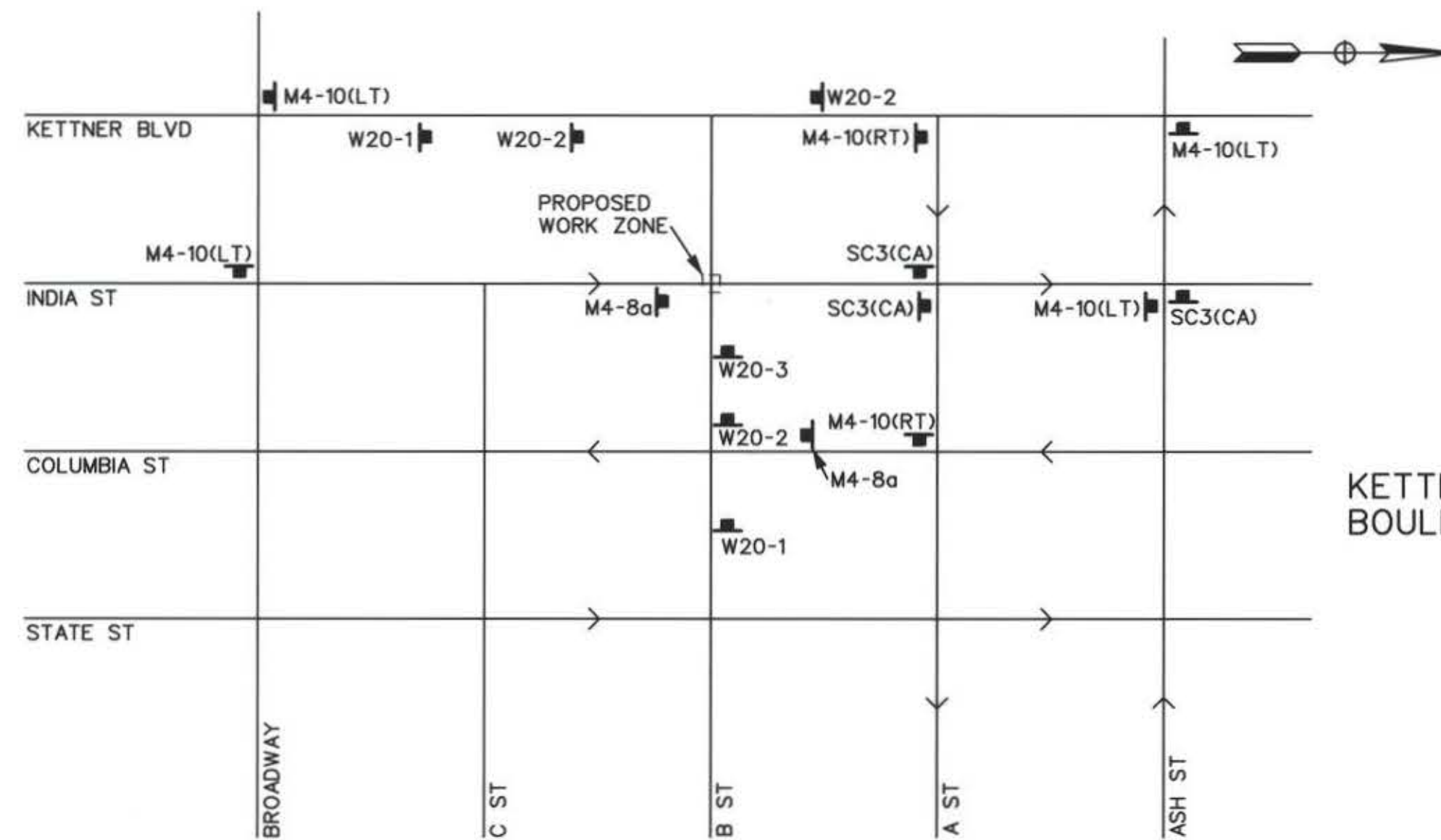
**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**



**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.
- 3 SEE DETOUR PLAN THIS SHEET.

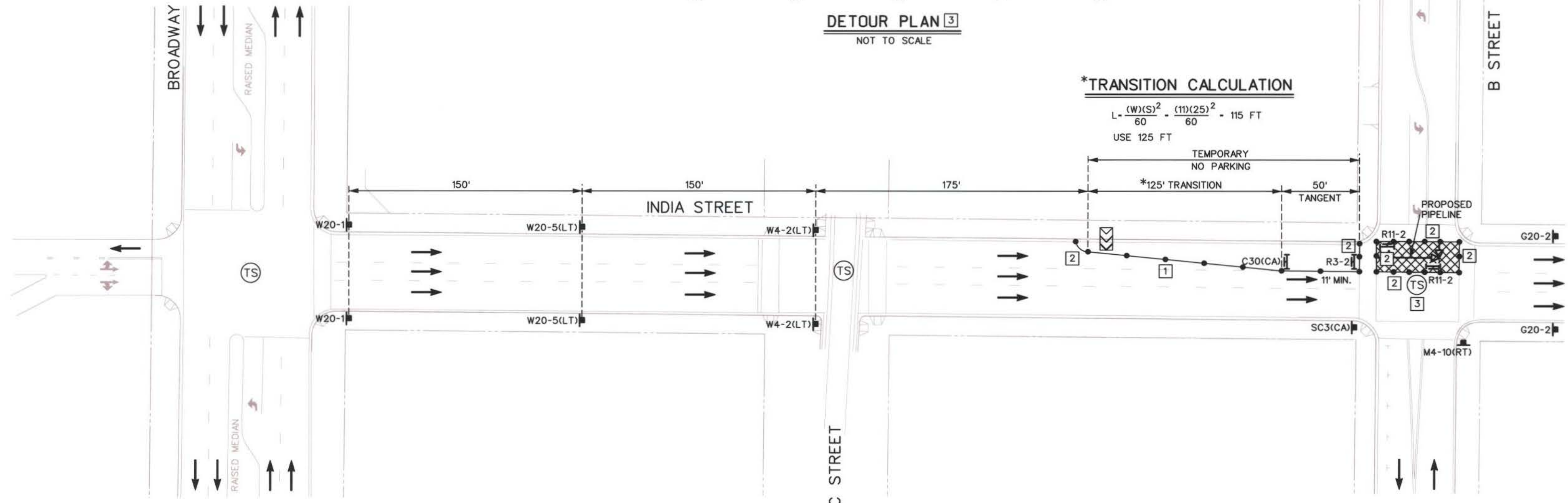
**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM



**\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(11)(25)^2}{60} = 115 \text{ FT}$$

USE 125 FT



**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

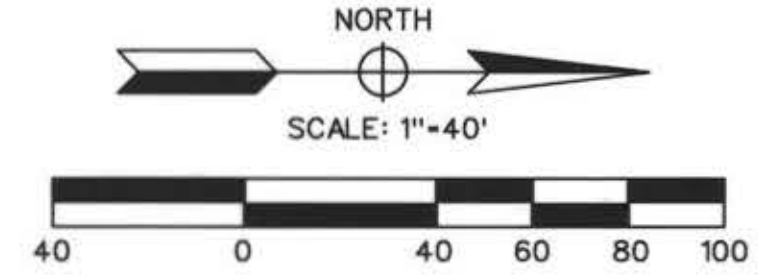
**ENGINEER OF WORK**

JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1	TC43-6350-495TG42.DGN	11/19/12
Designed By: JSM	Drawn By: DVS	Checked By: JPK



**TRAFFIC CONTROL DESIGN SPEED**  
 INDIA STREET = 25 MPH

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-43

TRAFFIC CONTROL PLANS FOR:

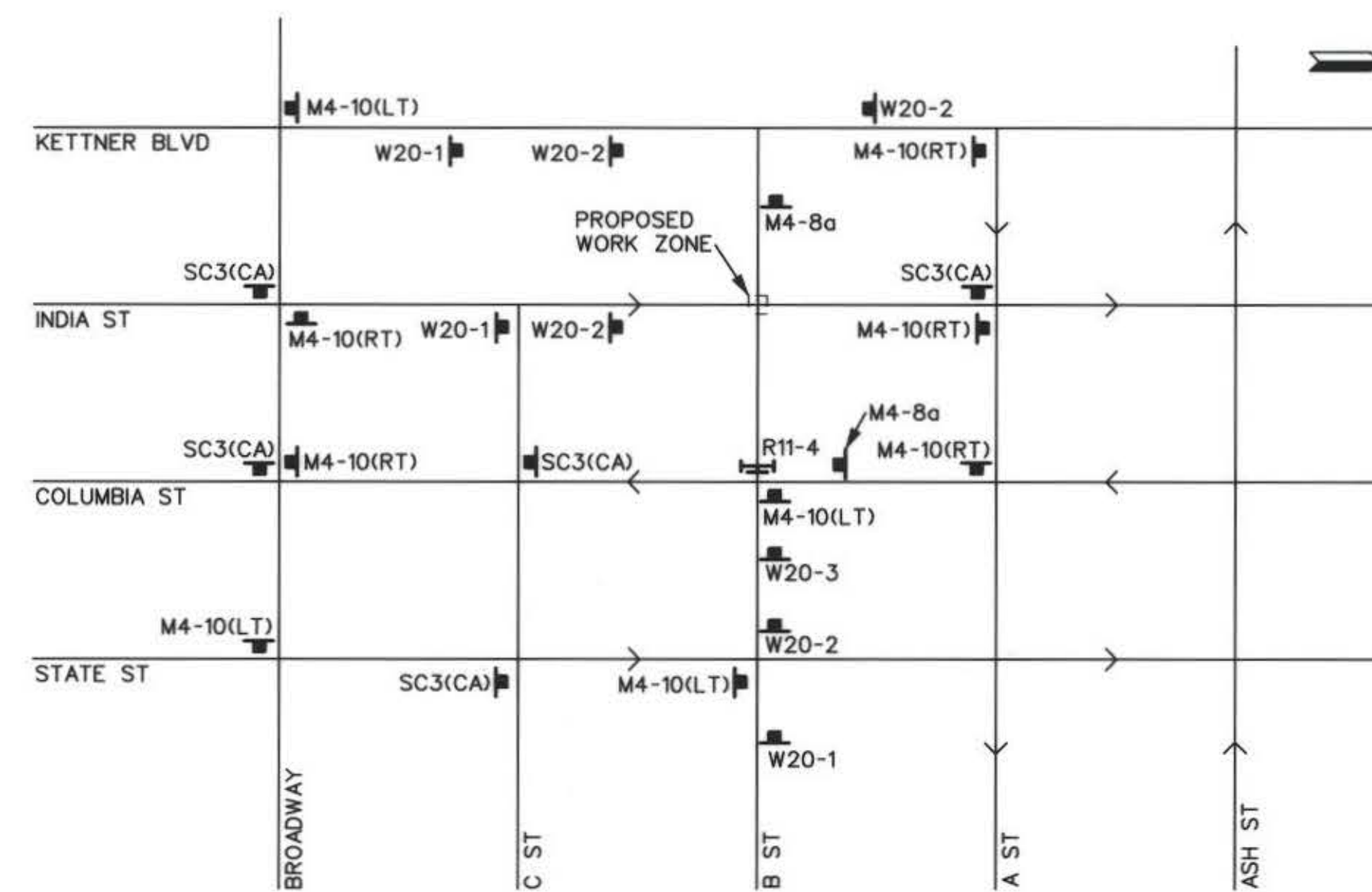
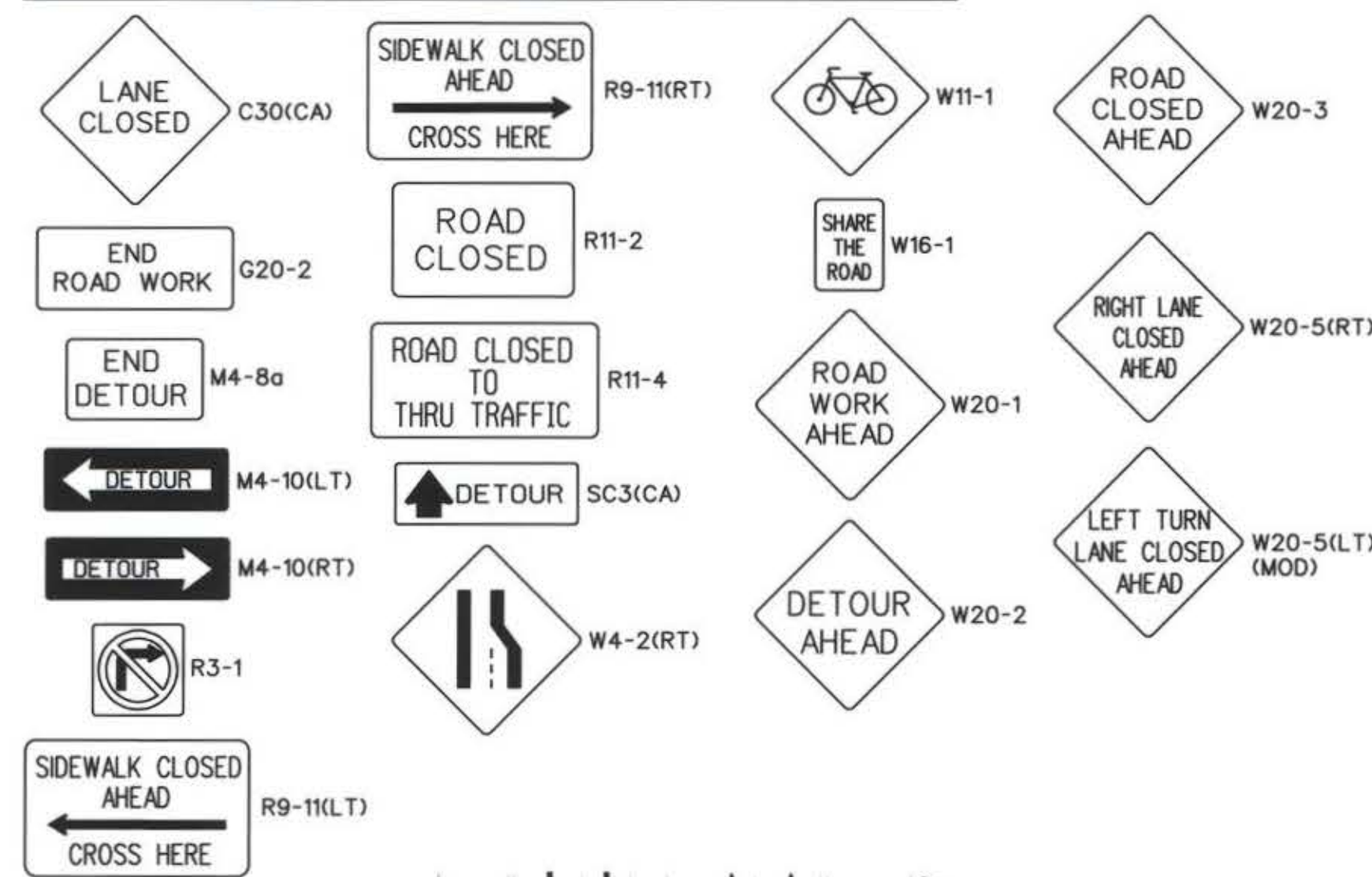
**SEWER AND WATER GROUP JOB 957**  
 INDIA STREET  
 (STAGE 42)

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 43 OF 54 SHEETS	WATER WBS B-1154 SEWER WBS B-1152
APPROVED BY: <i>[Signature]</i> DATE: 12/17/2012	FOR CITY ENGINEER
DESIGNED BY: LLG	APPROVED BY: JIM HAGHIGOLY
ORIGINAL	DATE
	FILED
	PROJECT ENGINEER
	SEE CIVIL SHEETS
	CCS27 COORDINATE
	SEE CIVIL SHEETS
	CCS85 COORDINATE
CONTRACTOR	DATE STARTED
INSPECTOR	DATE COMPLETED

36689-T43-D



TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)

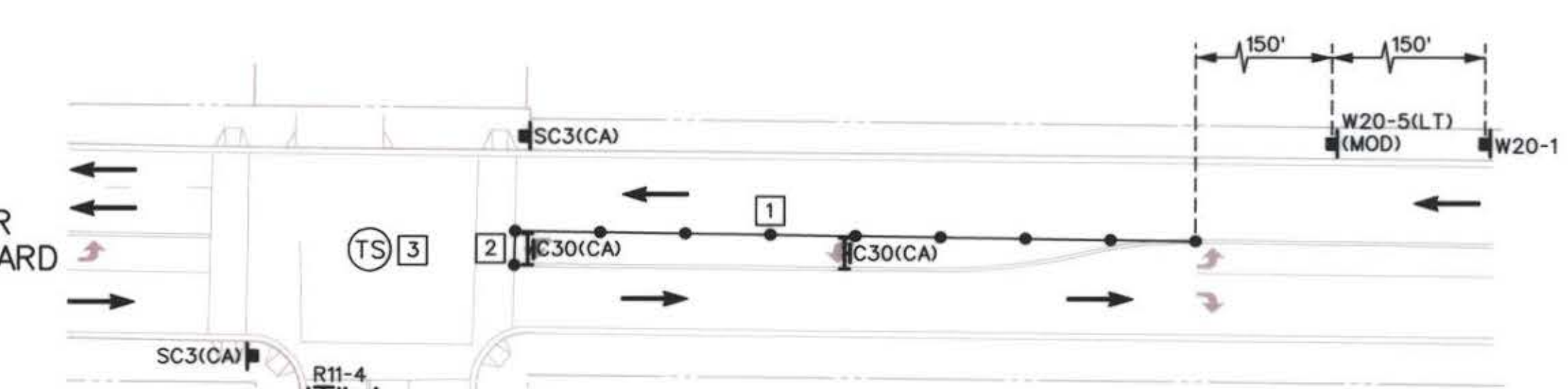


DETOUR PLAN 3  
NOT TO SCALE

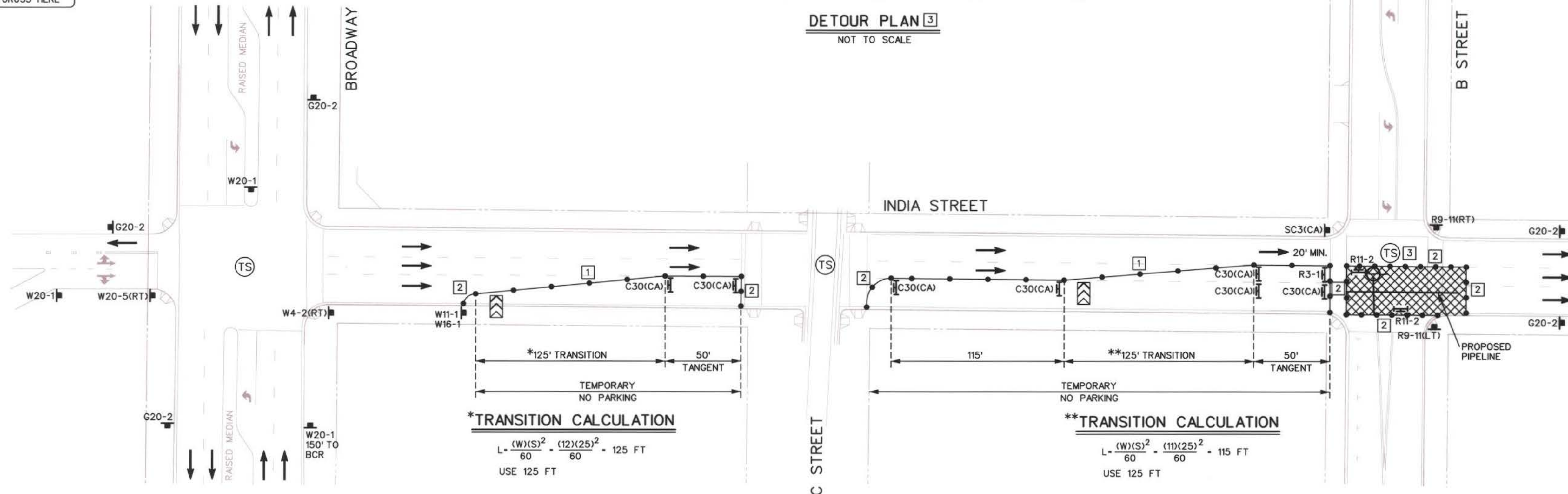
NOTES THIS SHEET

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.
- 3 SEE DETOUR PLAN THIS SHEET.

PIPELINE CONSTRUCTION  
WORK HOURS 8:00 AM TO 3:00 PM



TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
TRAFFIC SIGNAL TO REMAIN OPERATIONAL



\*TRANSITION CALCULATION  

$$L = \frac{(W)(S)^2}{60} = \frac{(12)(25)^2}{60} = 125 \text{ FT}$$
 USE 125 FT

\*\*TRANSITION CALCULATION  

$$L = \frac{(W)(S)^2}{60} = \frac{(11)(25)^2}{60} = 115 \text{ FT}$$
 USE 125 FT

DECLARATION OF RESPONSIBLE CHARGE

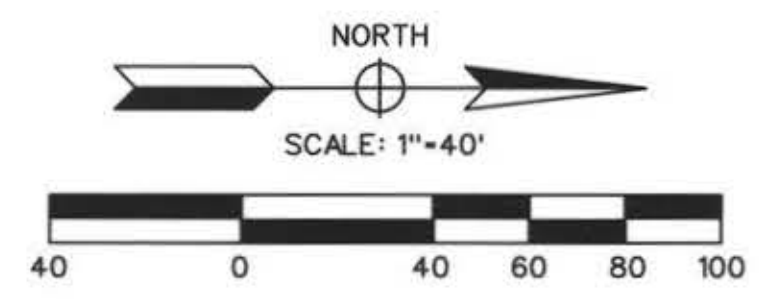
I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.  
 I UNDERSTAND THAT THE CHECK OF PROJECT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

ENGINEER OF WORK

JOHN P. KEATING R.C.E. 43595 DATE 12/12



LINSCOTT, LAW & GREENSPAN, ENGINEERS  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)



TRAFFIC CONTROL DESIGN SPEED  
 INDIA STREET = 25 MPH

NOTE

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-44

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957  
INDIA STREET  
(STAGE 43)**

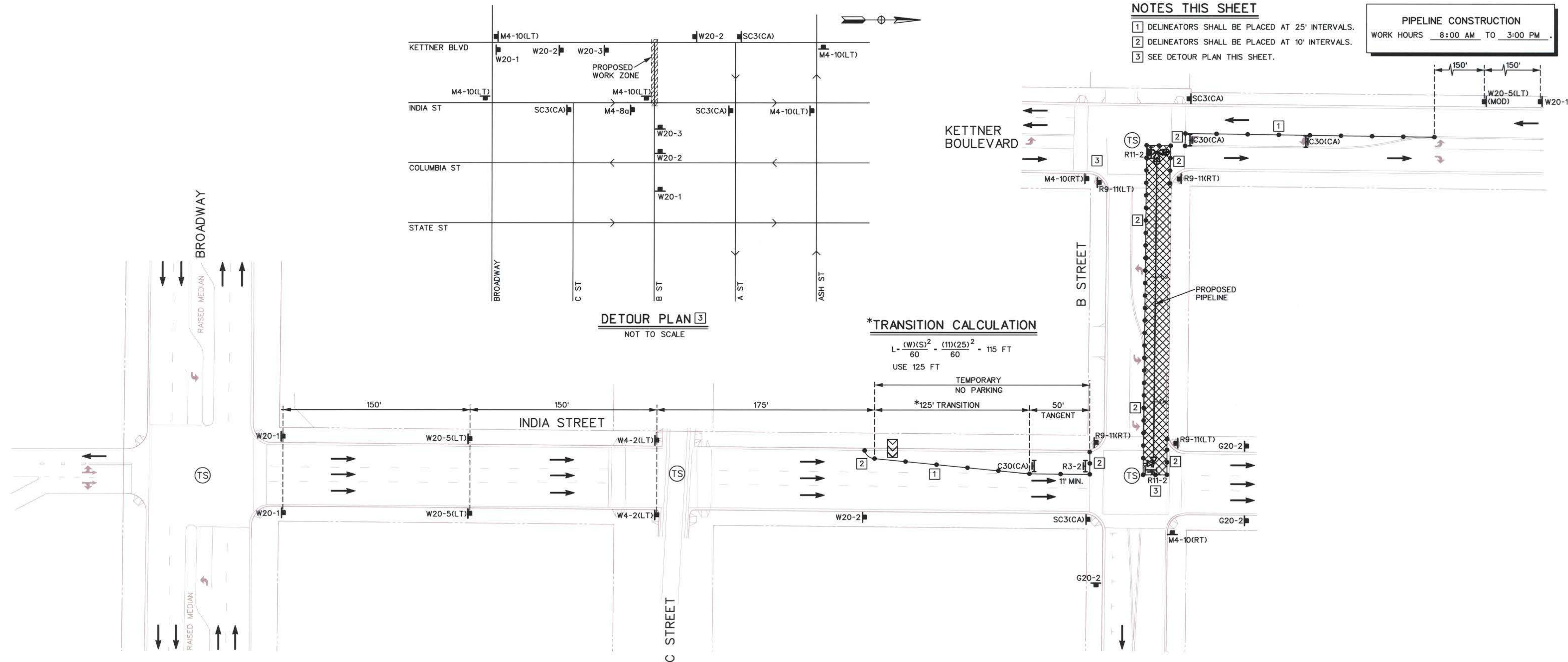
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 44 OF 54 SHEETS		WATER WBS B-1154 SEWER WBS B-1152
SUBMITTED BY: <i>John P. Keating</i> FOR CITY ENGINEER		DATE: 12/17/2012
DESCRIPTION	BY	APPROVED
ORIGINAL	LLG	
CHECKED BY: <i>Brian Vitelle</i> PROJECT ENGINEER		DATE: 12/17/2012
SEE CIVIL SHEETS CC327 COORDINATE		
SEE CIVIL SHEETS CC383 COORDINATE		
CONTRACTOR	DATE STARTED	36689-T44-D
INSPECTOR	DATE COMPLETED	



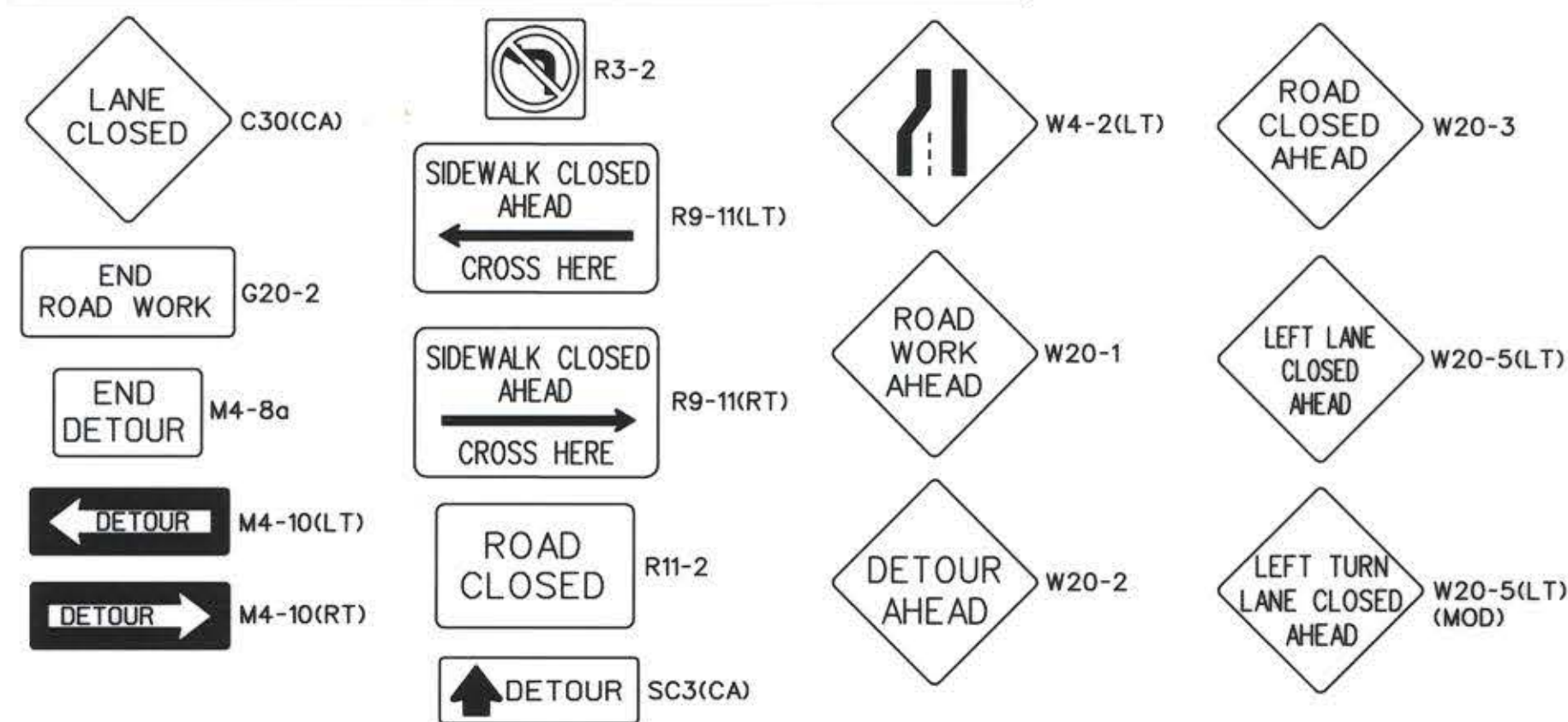
**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.
- 3 SEE DETOUR PLAN THIS SHEET.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**



**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

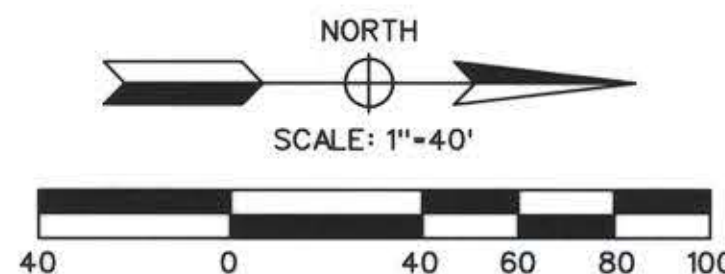
**ENGINEER OF WORK**

JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC45-6350-495TG44.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK



**TRAFFIC CONTROL DESIGN SPEED**

B STREET = 25 MPH  
 INDIA STREET = 25 MPH

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-45

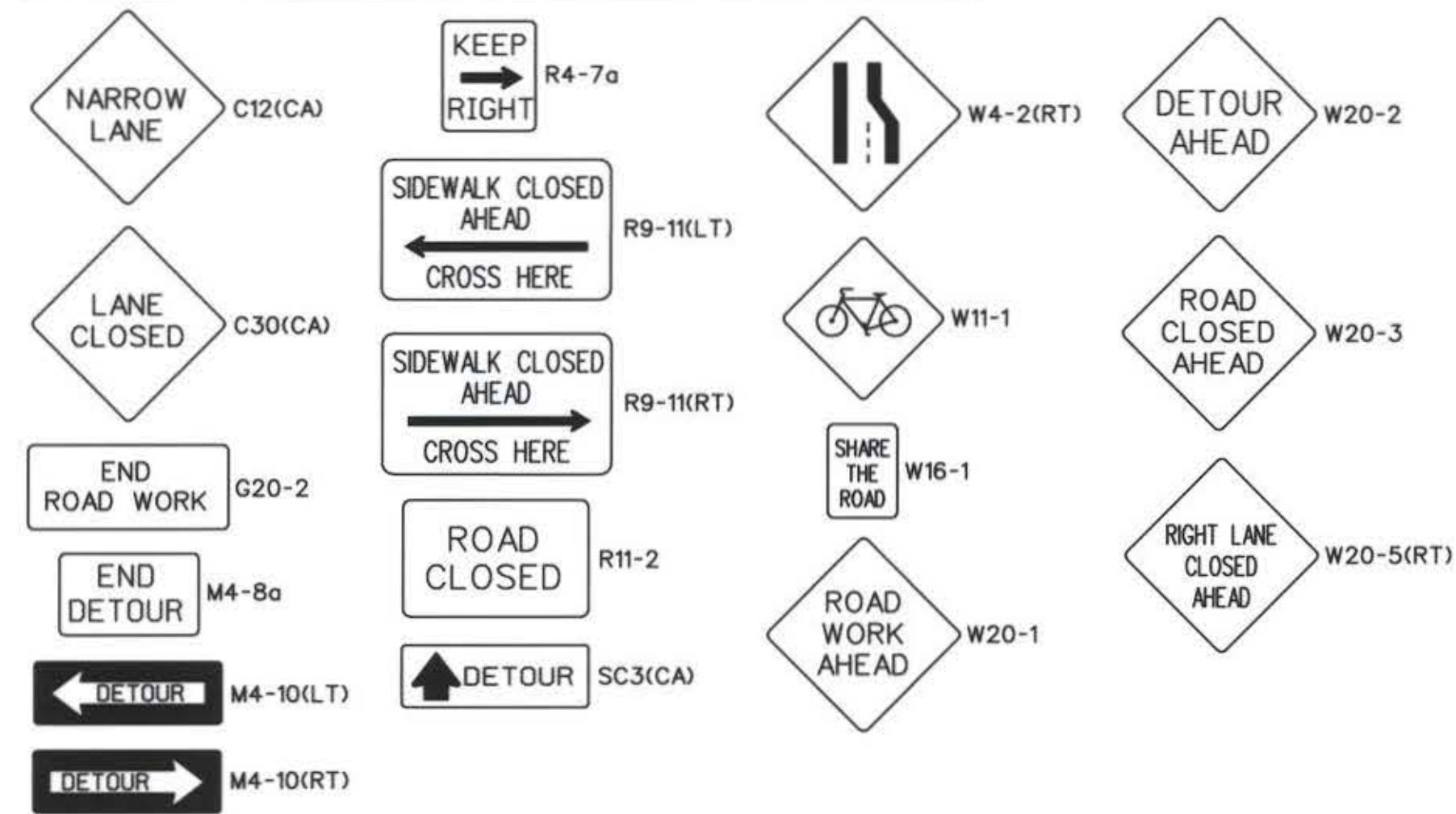
TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957**  
**B STREET**  
 (STAGE 44)

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 45 OF 54 SHEETS				WATER WBS B-1154 SEWER WBS B-1152
APPROVED BY: <i>John P. Keating</i>	DATE: 12/17/2012	SUBMITTED BY: JIM HAGGOLY ASSOCIATE ENGINEER		
FOR CITY ENGINEER	BY: LLG	APPROVED DATE:	FILMED:	
ORIGINAL				
CONTRACTOR:	DATE STARTED:	36689-T45-D		
INSPECTOR:	DATE COMPLETED:			



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**

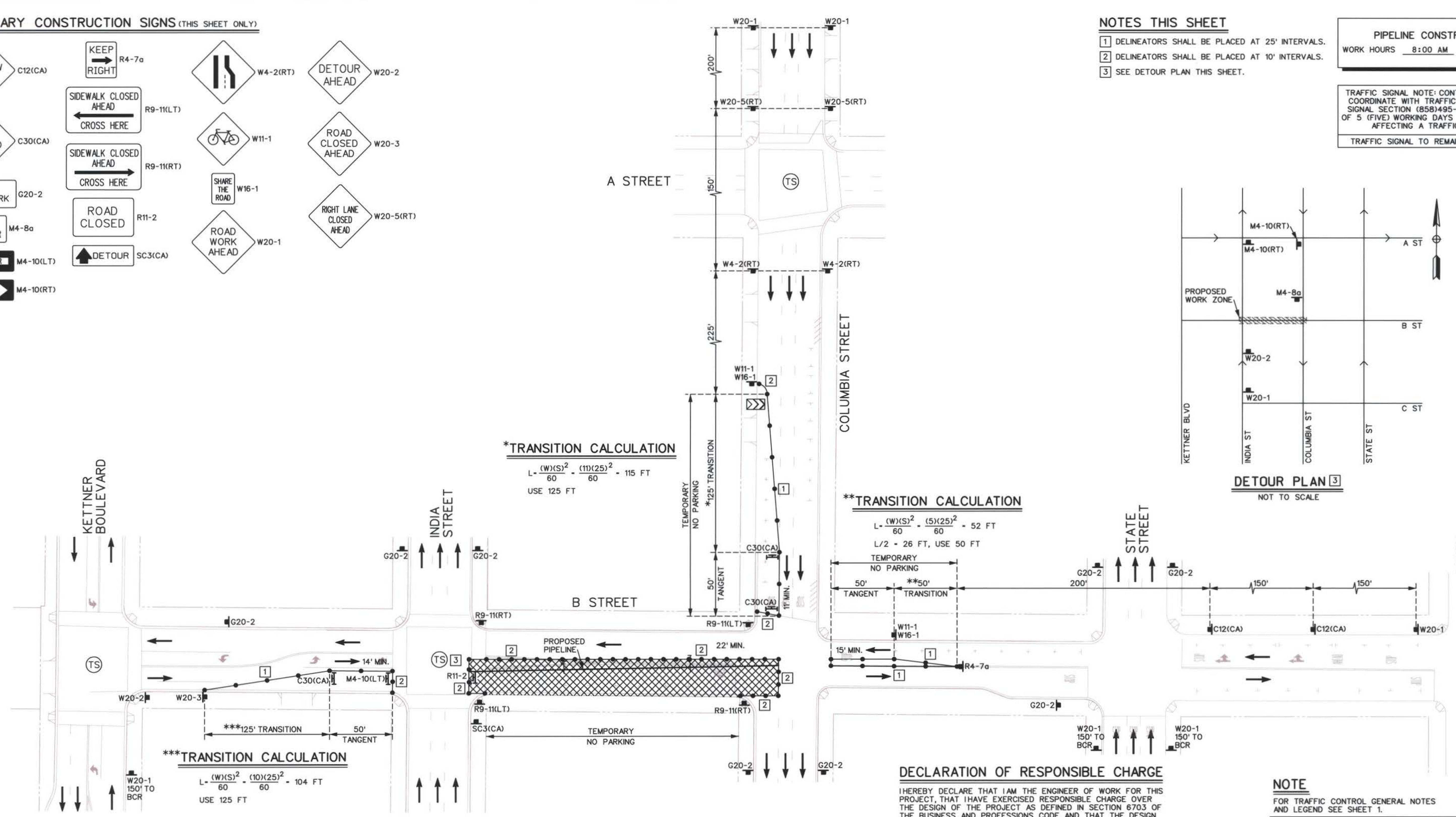


**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.
- 3 SEE DETOUR PLAN THIS SHEET.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**\*TRANSITION CALCULATION**  

$$L = \frac{(W)(S)^2}{60} = \frac{(10)(25)^2}{60} = 115 \text{ FT}$$
 USE 125 FT

**\*\*TRANSITION CALCULATION**  

$$L = \frac{(W)(S)^2}{60} = \frac{(5)(25)^2}{60} = 52 \text{ FT}$$

$$L/2 = 26 \text{ FT, USE } 50 \text{ FT}$$

**\*\*\*TRANSITION CALCULATION**  

$$L = \frac{(W)(S)^2}{60} = \frac{(10)(25)^2}{60} = 104 \text{ FT}$$
 USE 125 FT

**DECLARATION OF RESPONSIBLE CHARGE**

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

**ENGINEER OF WORK**

JOHN P. KEATING R.C.E. 43595 DATE 11/9/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

**NOTE**

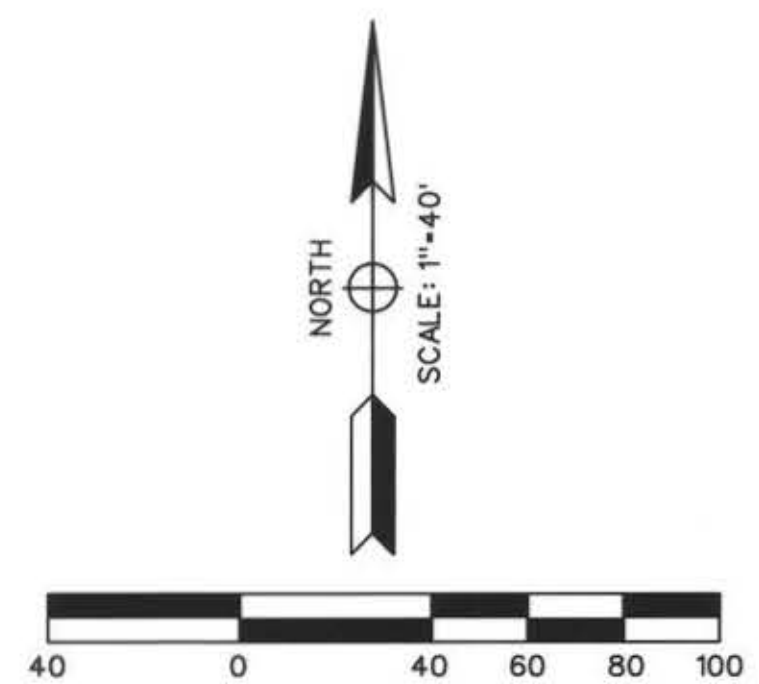
FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957  
 B STREET  
 (STAGE 45)**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 46 OF 54 SHEETS				WATER WBS B-11154 SEWER WBS B-11152
FOR CITY ENGINEER				DESIGNED BY: JIM HAGHIGOLY ASSOCIATE ENGINEER
DATE: 12/17/2012	BY: LLG	APPROVED:	DATE:	FILED:
DESCRIPTION: ORIGINAL	BY: LLG	APPROVED:	DATE:	FILED:
CONTRACTOR: _____				DATE STARTED: _____
INSPECTOR: _____				DATE COMPLETED: _____

**TRAFFIC CONTROL DESIGN SPEED**  
 B STREET = 25 MPH  
 INDIA STREET = 25 MPH



T-46

36689-T46-D

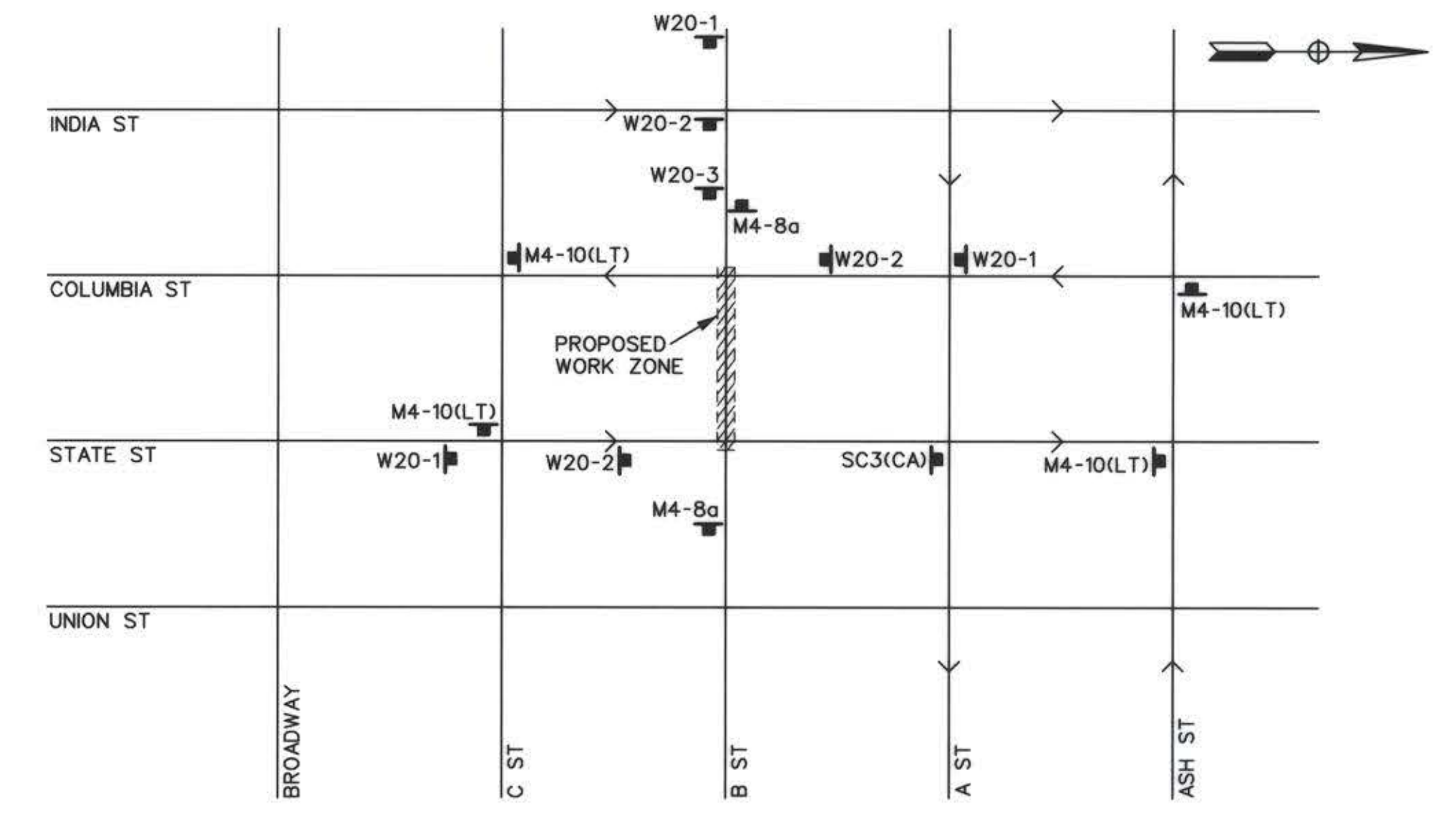
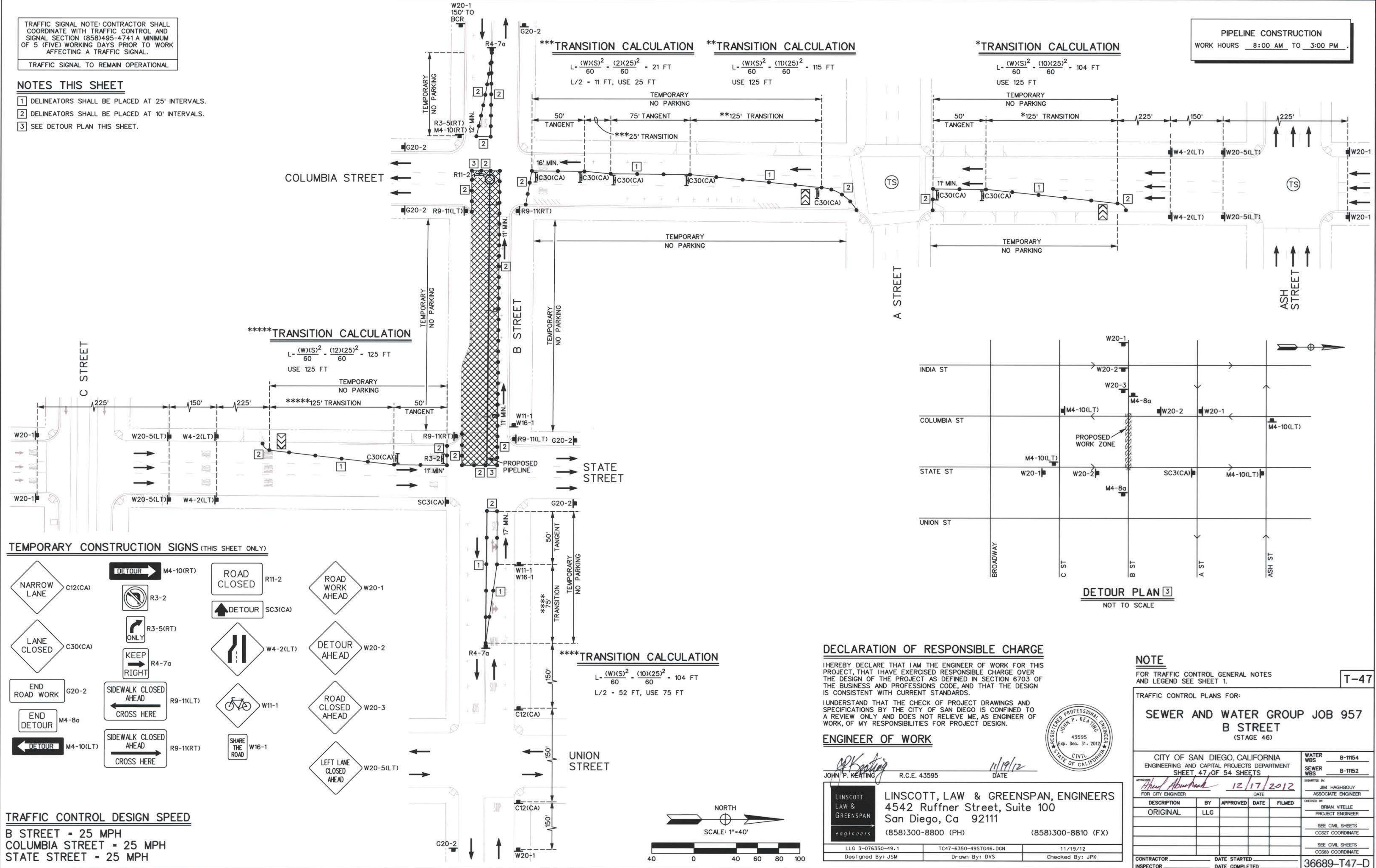


TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
TRAFFIC SIGNAL TO REMAIN OPERATIONAL.

**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.
- 3 SEE DETOUR PLAN THIS SHEET.

**PIPELINE CONSTRUCTION**  
WORK HOURS 8:00 AM TO 3:00 PM

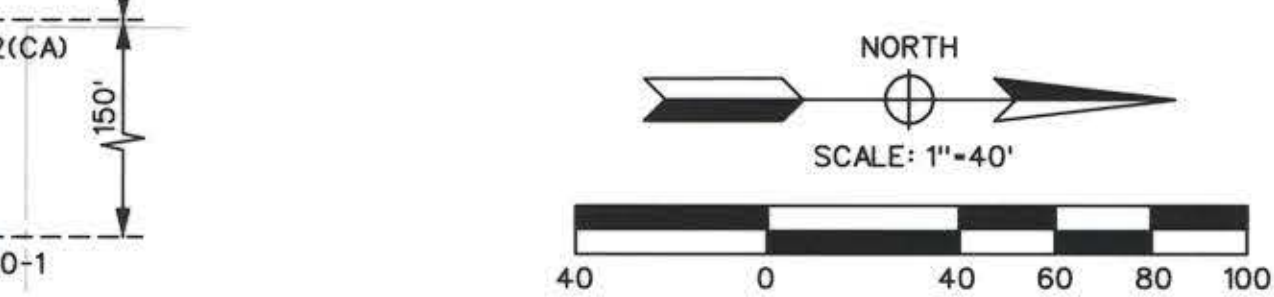


**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**

C12(CA)	M4-10(RT)	R11-2	W20-1
C30(CA)	R3-2	SC3(CA)	W20-2
G20-2	R4-7a	W4-2(LT)	W20-3
M4-8a	R9-11(LT)	W11-1	W20-5(LT)
M4-10(LT)	R9-11(RT)	W16-1	

**TRAFFIC CONTROL DESIGN SPEED**  
B STREET = 25 MPH  
COLUMBIA STREET = 25 MPH  
STATE STREET = 25 MPH

**\*\*\*\*TRANSITION CALCULATION**  
 $L = \frac{(W)(S)^2}{60} = \frac{(10)(25)^2}{60} = 104 \text{ FT}$   
 $L/2 = 52 \text{ FT, USE } 75 \text{ FT}$



**DECLARATION OF RESPONSIBLE CHARGE**

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

**ENGINEER OF WORK**

*John P. Keating*  
JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
4542 Ruffner Street, Suite 100  
San Diego, Ca 92111  
(858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1	TC47-6350-49STG46.DGN	11/19/12
Designed By: JSM	Drawn By: DVS	Checked By: JPK

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1. **T-47**

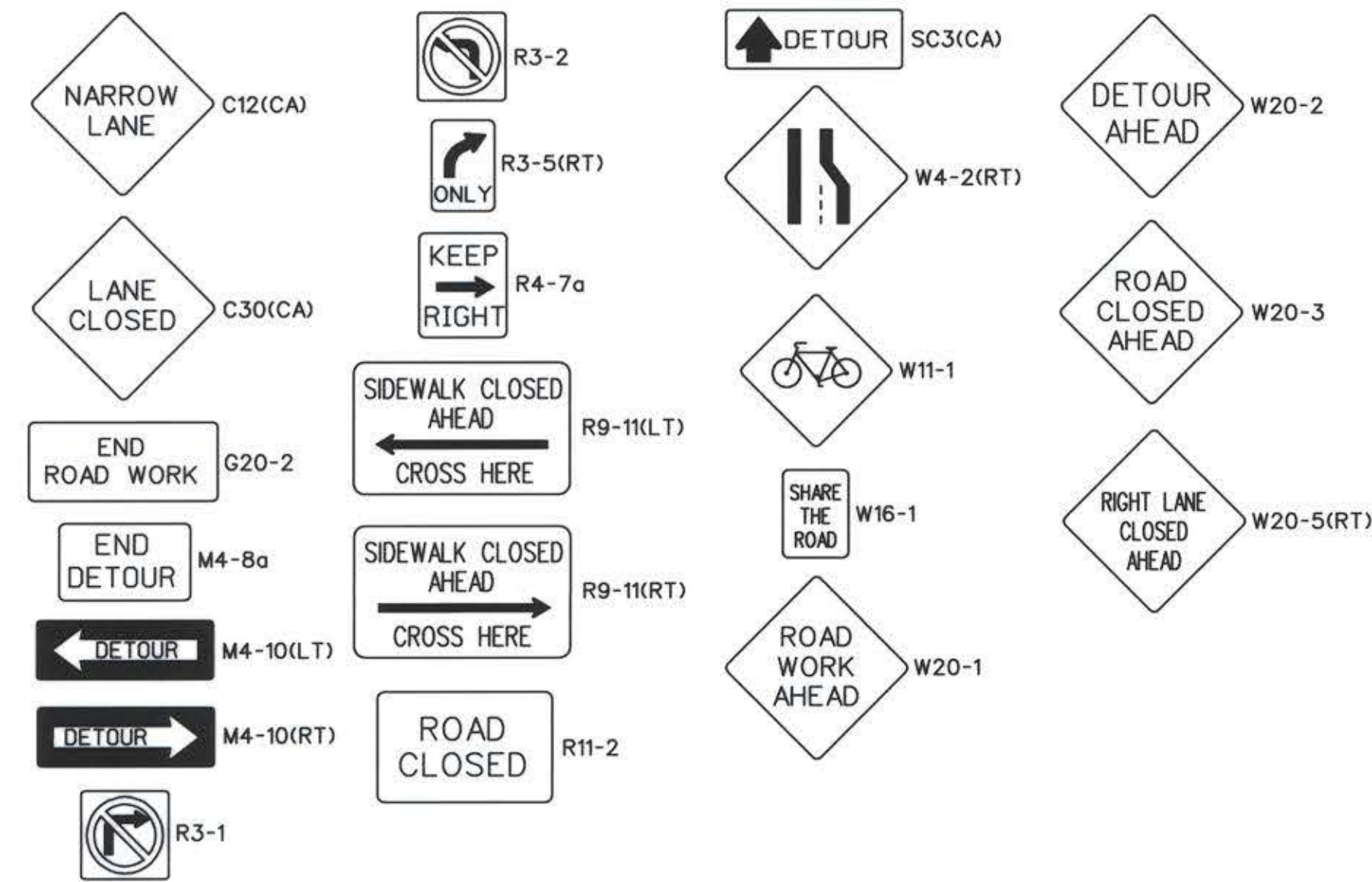
TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957  
B STREET  
(STAGE 46)**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 47 OF 54 SHEETS		WATER WBS B-1154 SEWER WBS B-1152
APPROVED FOR CITY ENGINEER	DATE 12/17/2012	DESIGNED BY JIM HAGGOLY ASSOCIATE ENGINEER
DESCRIPTION ORIGINAL	BY LLG	CHECKED BY BRIAN VITELLE PROJECT ENGINEER
		SEE CIVIL SHEETS CCS27 COORDINATE
		SEE CIVIL SHEETS CCS83 COORDINATE
CONTRACTOR	DATE STARTED	36689-T47-D
INSPECTOR	DATE COMPLETED	



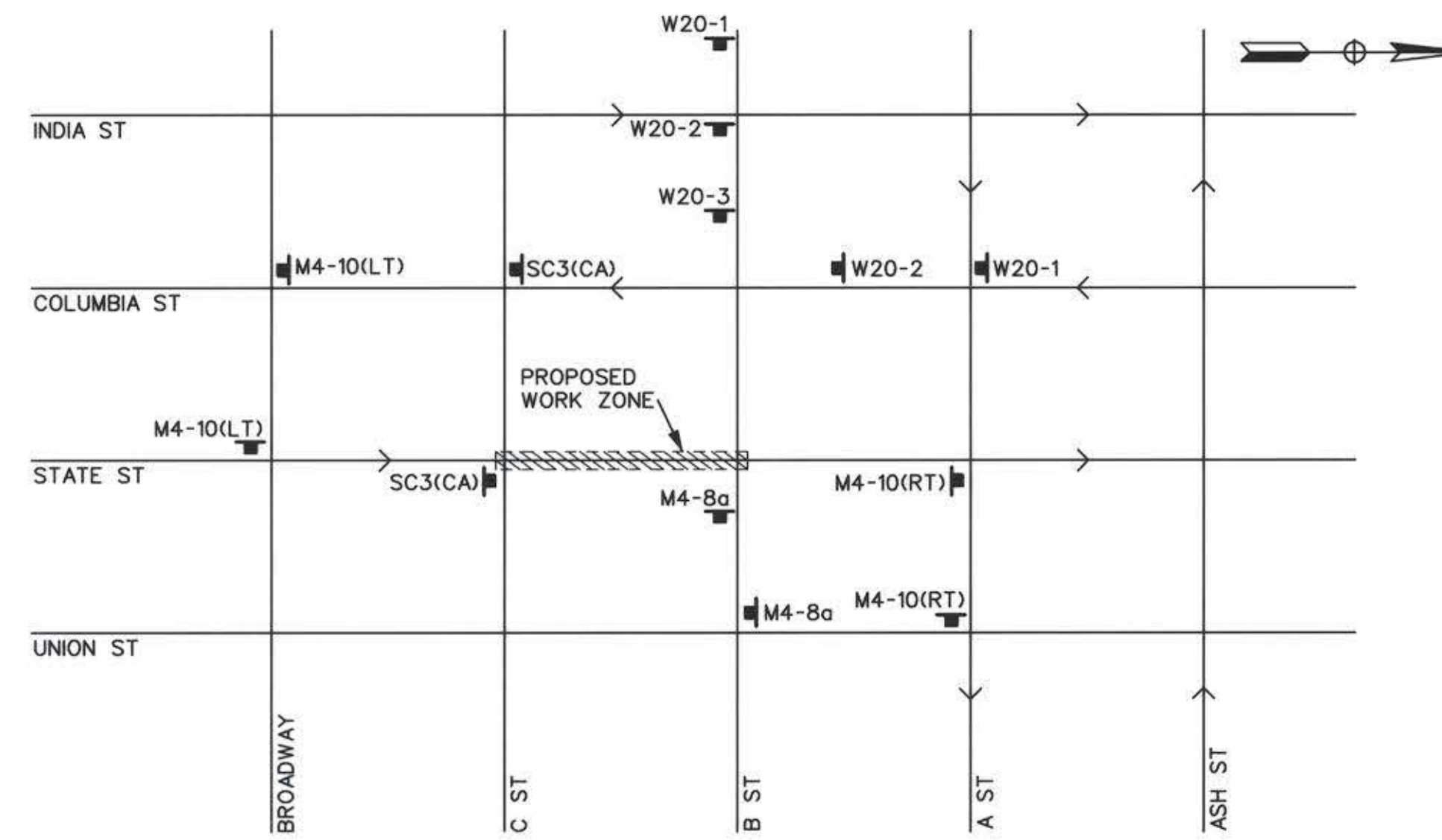
**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**



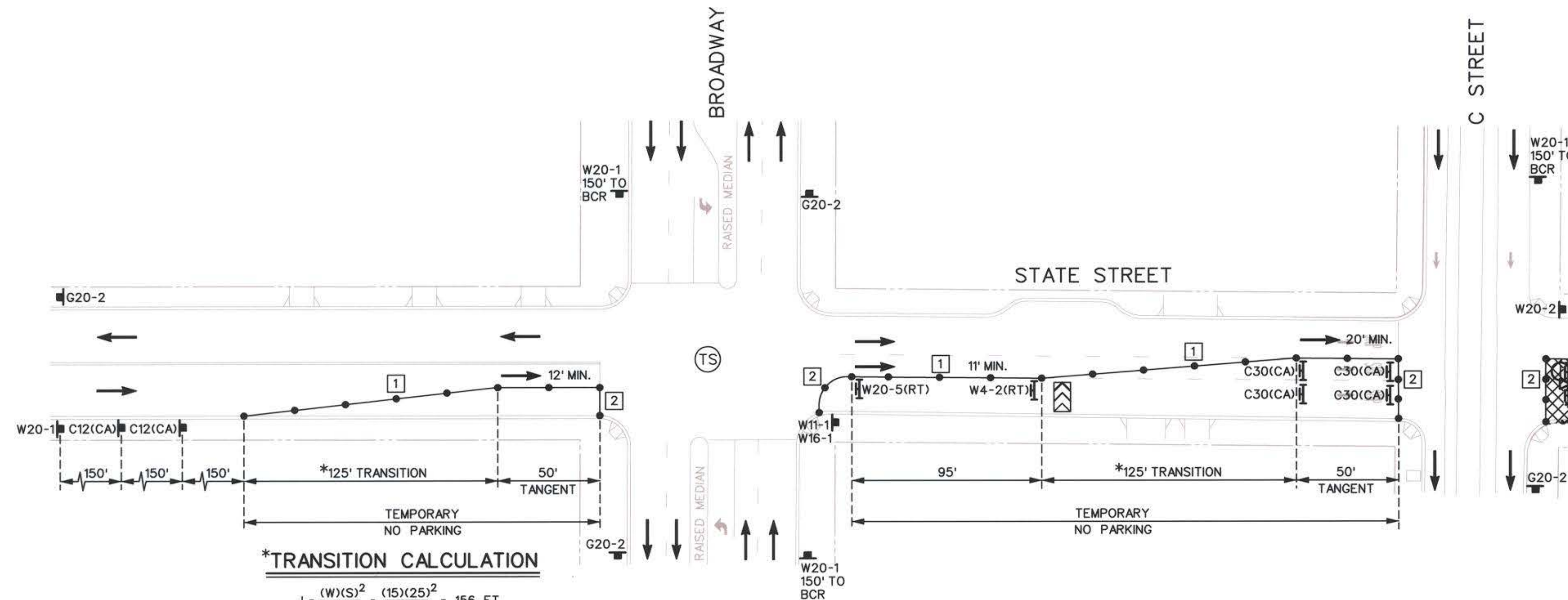
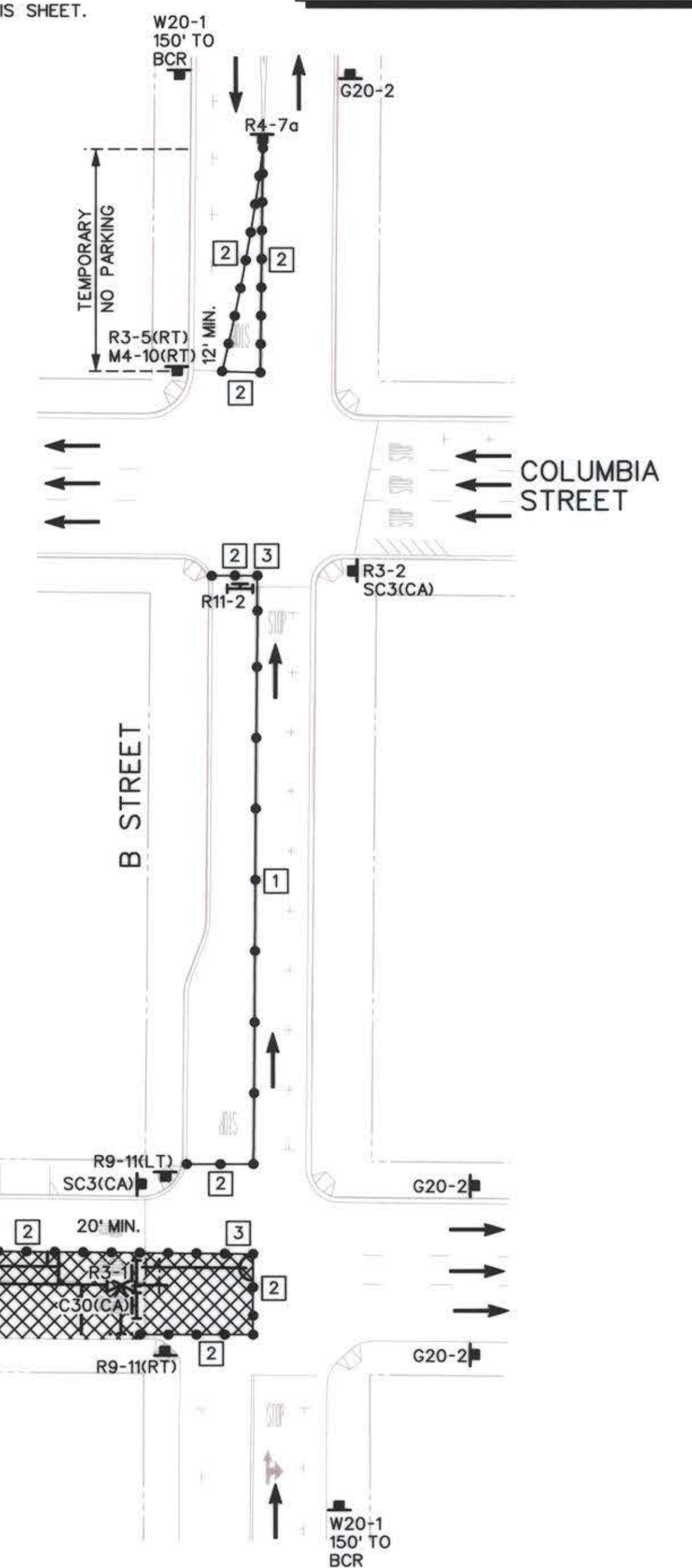
**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.
- 3 SEE DETOUR PLAN THIS SHEET.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM



**DETOUR PLAN**  
 NOT TO SCALE



**\*TRANSITION CALCULATION**

$$L = \frac{(W)(S)^2}{60} = \frac{(15)(25)^2}{60} = 156 \text{ FT}$$

$$L/2 = 78 \text{ FT, USE 125 FT}$$

**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

**ENGINEER OF WORK**

*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE *11/19/12*



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1	TC48-6350-49STG47.DGN	11/19/12
Designed By: JSM	Drawn By: DVS	Checked By: JPK

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

**T-48**

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957**  
**STATE STREET**  
 (STAGE 47)

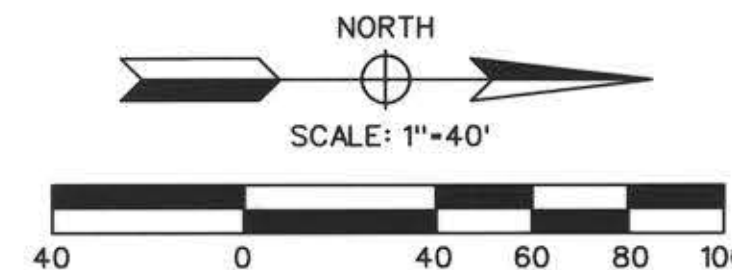
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 48 OF 54 SHEETS		WATER WBS - B-1154 SEWER WBS - B-1152
FOR CITY ENGINEER <i>Abdul Abuduh</i> 12/17/2012		SUBMITTED BY: JIM HAGHGOULY ASSOCIATE ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	LLG	
DATE		
FILMED		
CHECKED BY: BRIAN VITELLE PROJECT ENGINEER		SEE CIVIL SHEETS CCS27 COORDINATE
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
		<b>36689-T48-D</b>

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.

TRAFFIC SIGNAL TO REMAIN OPERATIONAL

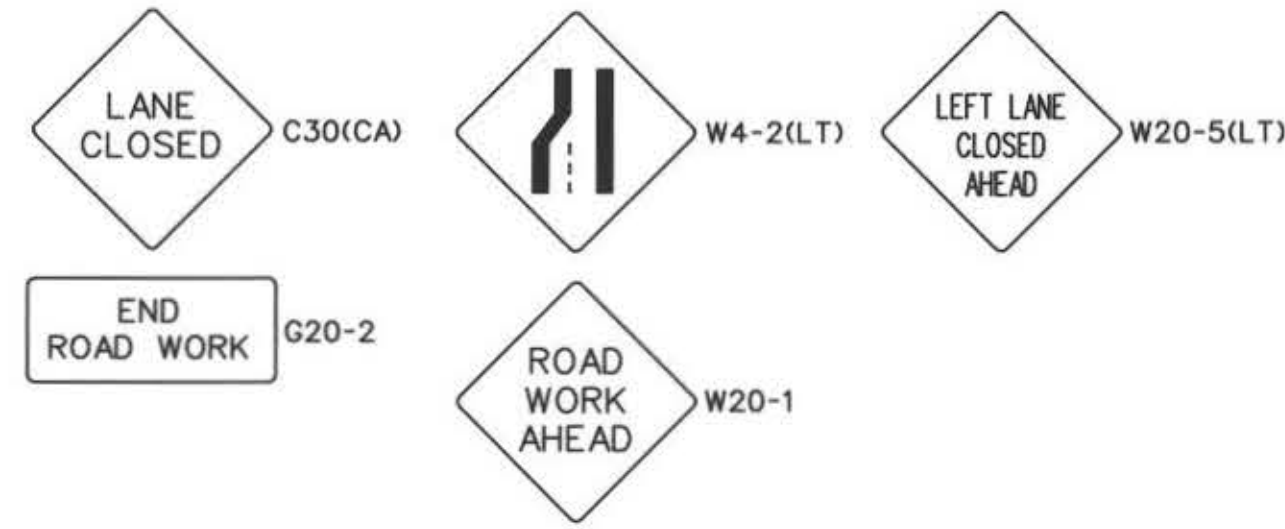
**TRAFFIC CONTROL DESIGN SPEED**

B STREET = 25 MPH  
 STATE STREET = 25 MPH





**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**

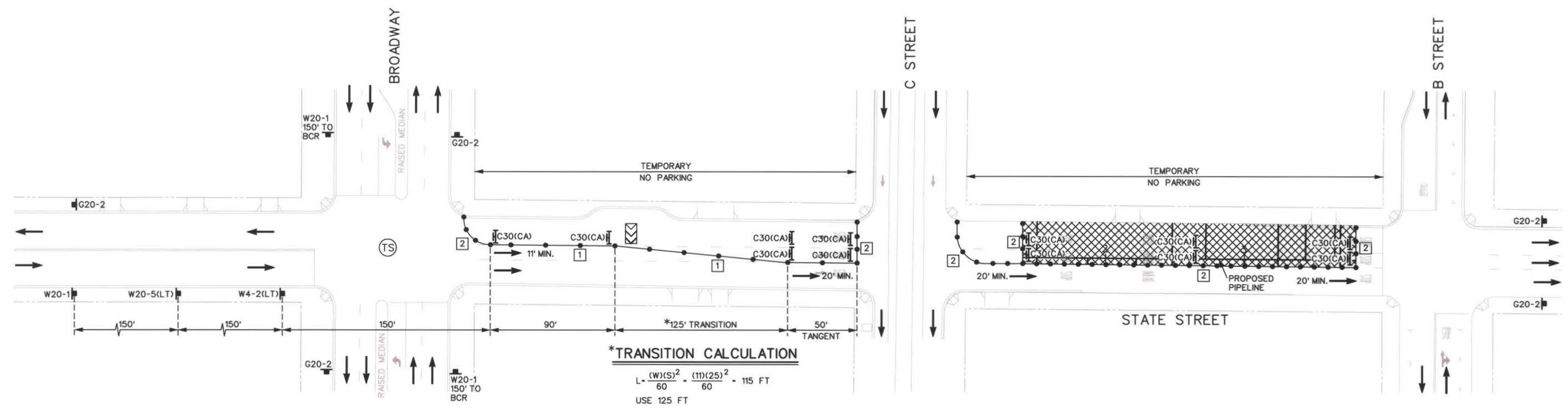


**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**DECLARATION OF RESPONSIBLE CHARGE**

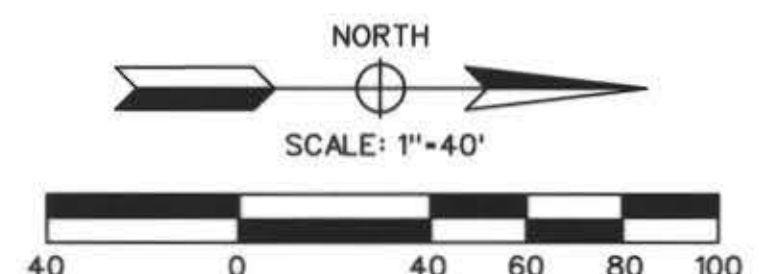
I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.  
 I UNDERSTAND THAT THE CHECK OF PROJECT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

**ENGINEER OF WORK**

JOHN P. KEATING R.C.E. 43595 DATE 11/14/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)



**TRAFFIC CONTROL DESIGN SPEED**  
 STATE STREET = 25 MPH

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-49

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957  
 STATE STREET  
 (STAGE 4B)**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 49 OF 54 SHEETS		WATER WBS B-11154 SEWER WBS B-11152
FOR CITY ENGINEER 12/17/2012		SUBMITTED BY: SIM HADGHIGOLY ASSOCIATE ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	LLG	BRIAN VITELLE PROJECT ENGINEER
		SEE CIVIL SHEETS CCS27 COORDINATE
		SEE CIVIL SHEETS CCS88 COORDINATE
CONTRACTOR	DATE STARTED	36689-T49-D
INSPECTOR	DATE COMPLETED	

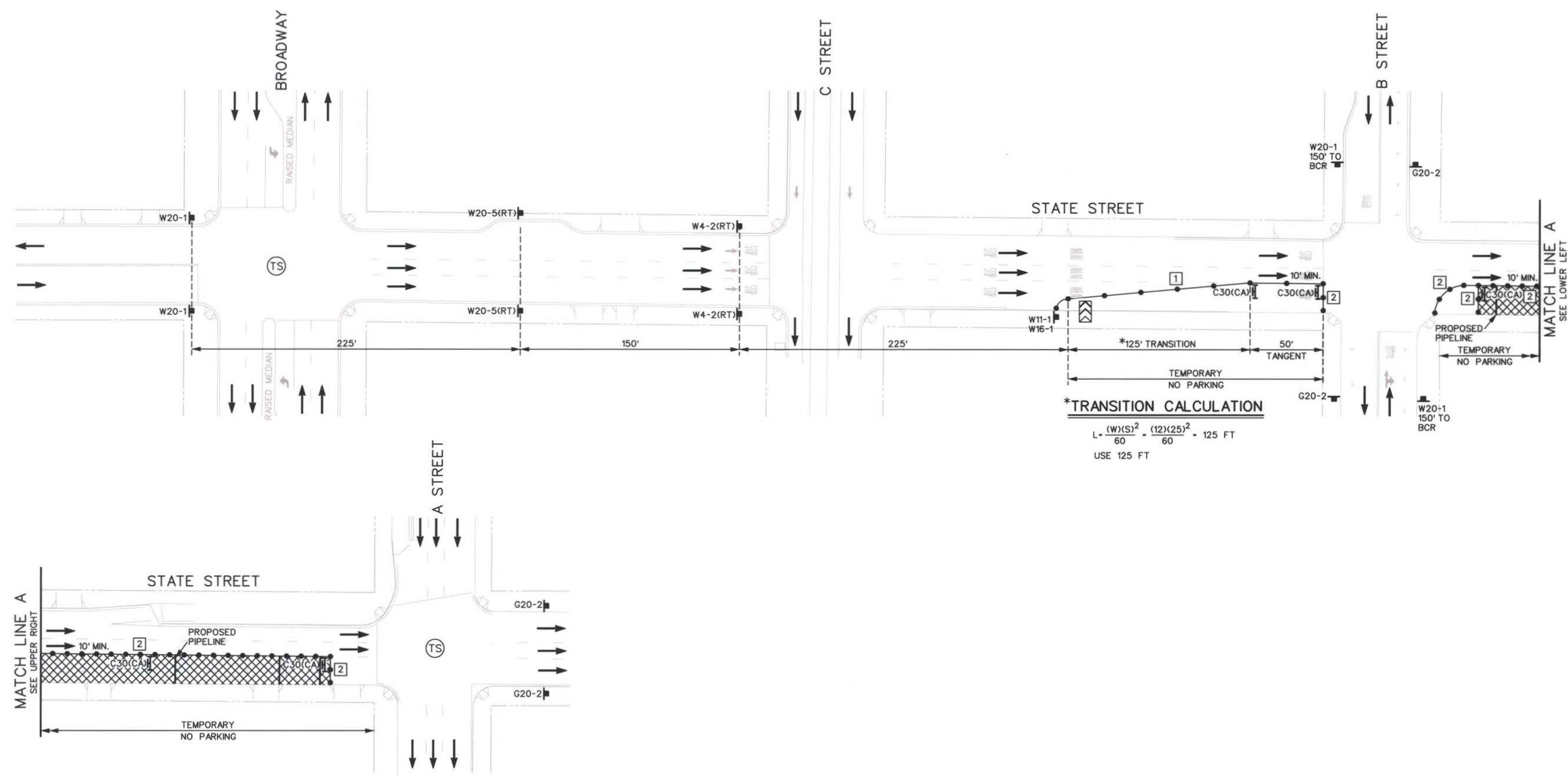


**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

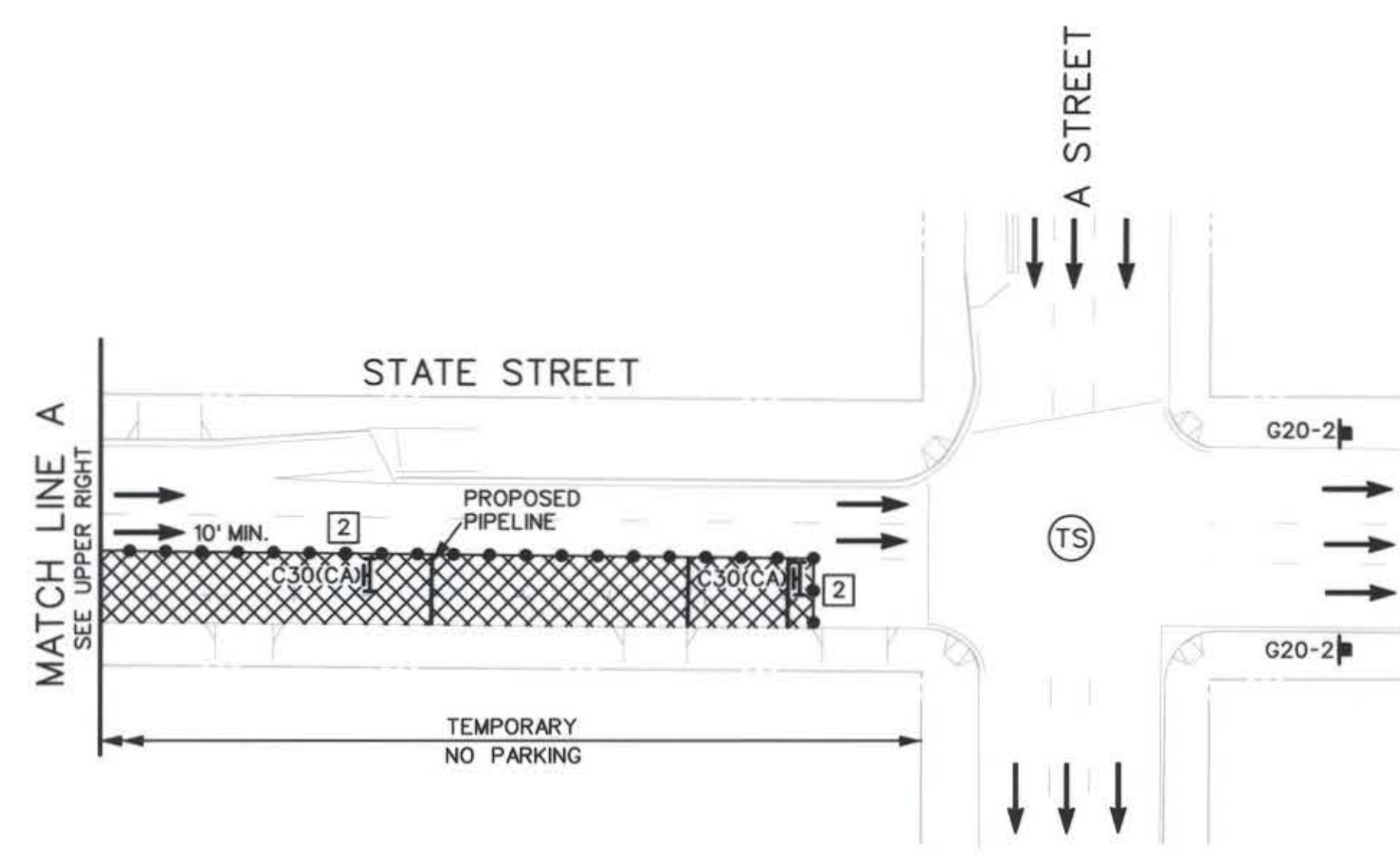
**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL

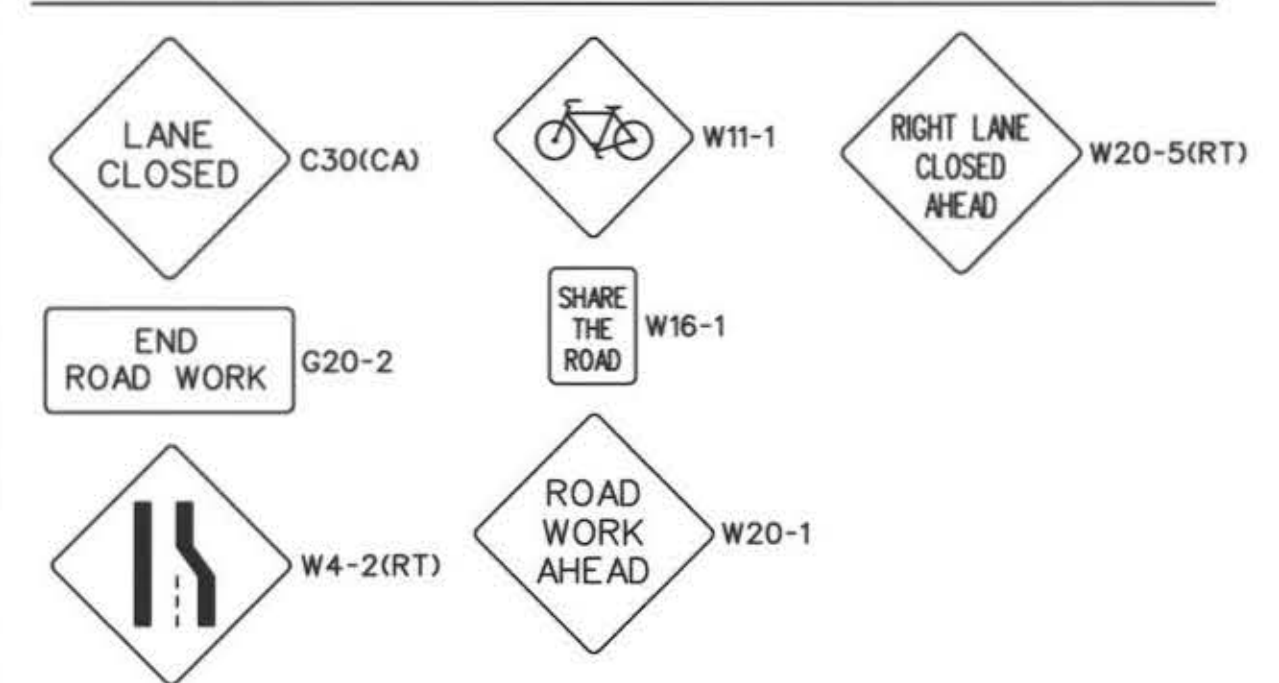


**\*TRANSITION CALCULATION**  

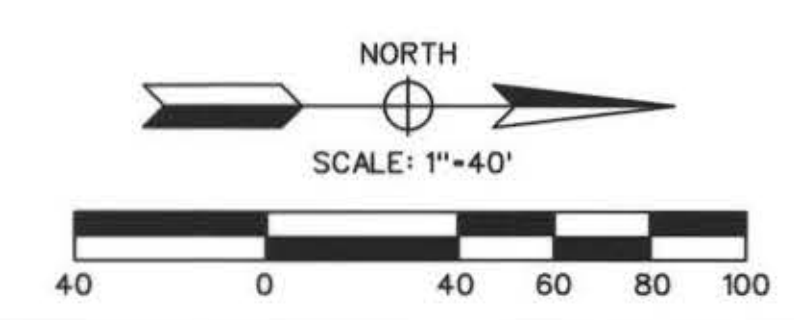
$$L = \frac{(W)(S)^2}{60} = \frac{(12)(25)^2}{60} = 125 \text{ FT}$$
 USE 125 FT



**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**



**TRAFFIC CONTROL DESIGN SPEED**  
 STATE STREET = 25 MPH



**DECLARATION OF RESPONSIBLE CHARGE**

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

**ENGINEER OF WORK**

*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1	TC50-6350-495TG49.DGN	11/19/12
Designed By: JSM	Drawn By: DVS	Checked By: JPK

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-50

TRAFFIC CONTROL PLANS FOR:			
<b>SEWER AND WATER GROUP JOB 957 STATE STREET (STAGE 49)</b>			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 50 OF 54 SHEETS	WATER WBS B-11154 SEWER WBS B-11152	APPROVED BY: <i>Jim Haghigholy</i> DATE: 12/17/2012 FOR CITY ENGINEER	WBS: B-11154 B-11152 SUBMITTED BY: JIM HAGHIGHOLY ASSOCIATE ENGINEER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	LLG		
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED		
			36689-T50-D

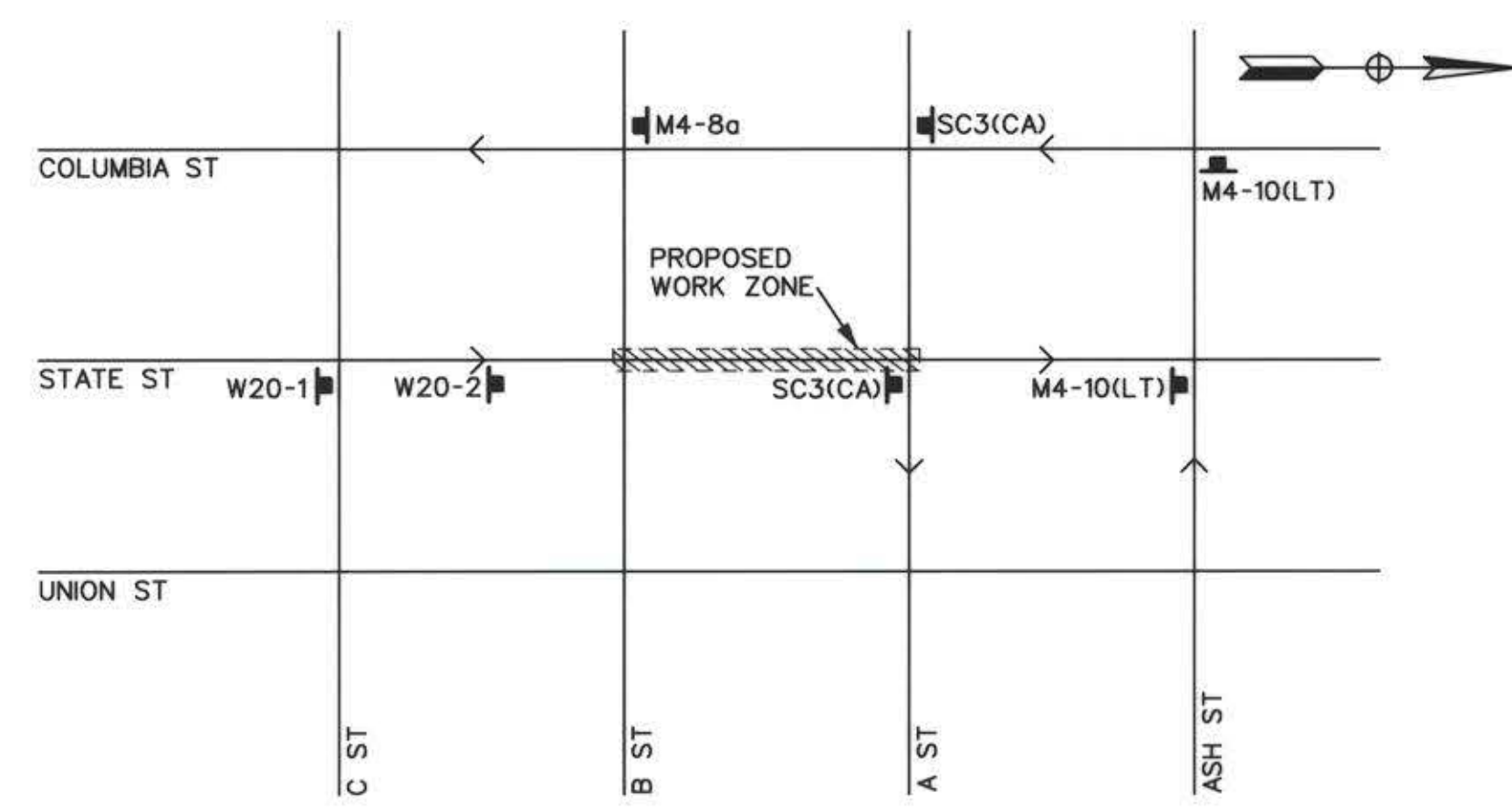
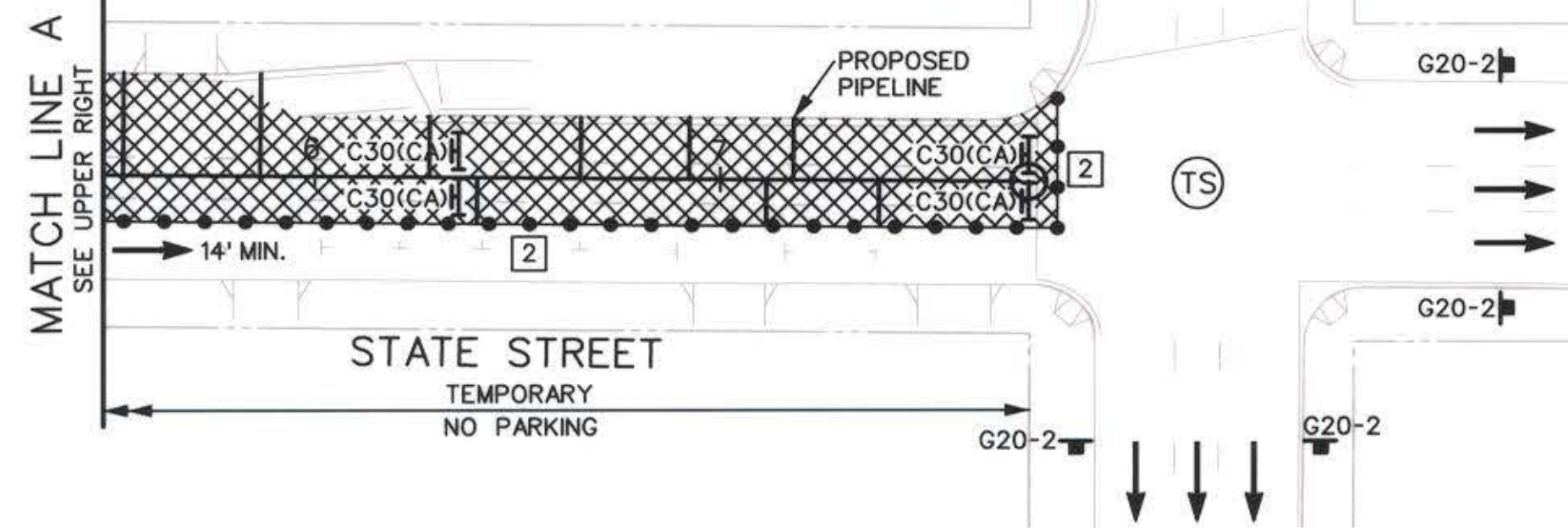
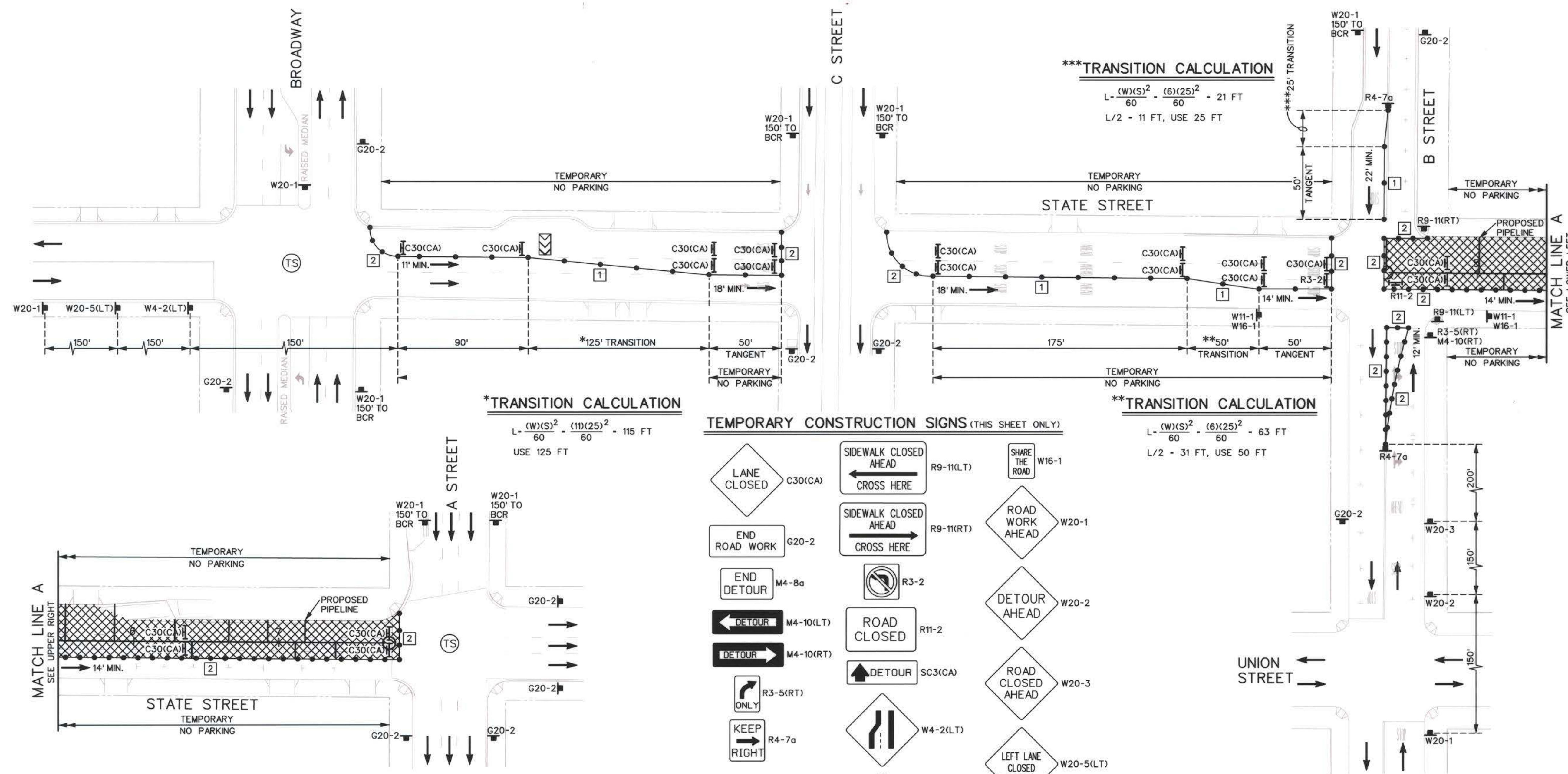


**NOTES THIS SHEET**

- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
- 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**DECLARATION OF RESPONSIBLE CHARGE**

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

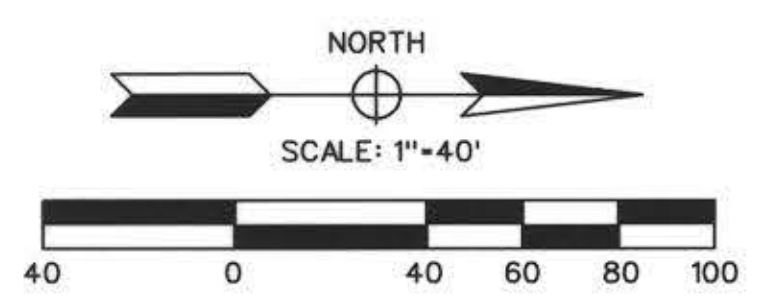
**ENGINEER OF WORK**

JOHN P. KEATING R.C.E. 43595 DATE 1/9/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC51-6350-495T650.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK



**TRAFFIC CONTROL DESIGN SPEED**  
 STATE STREET = 25 MPH

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1. T-51

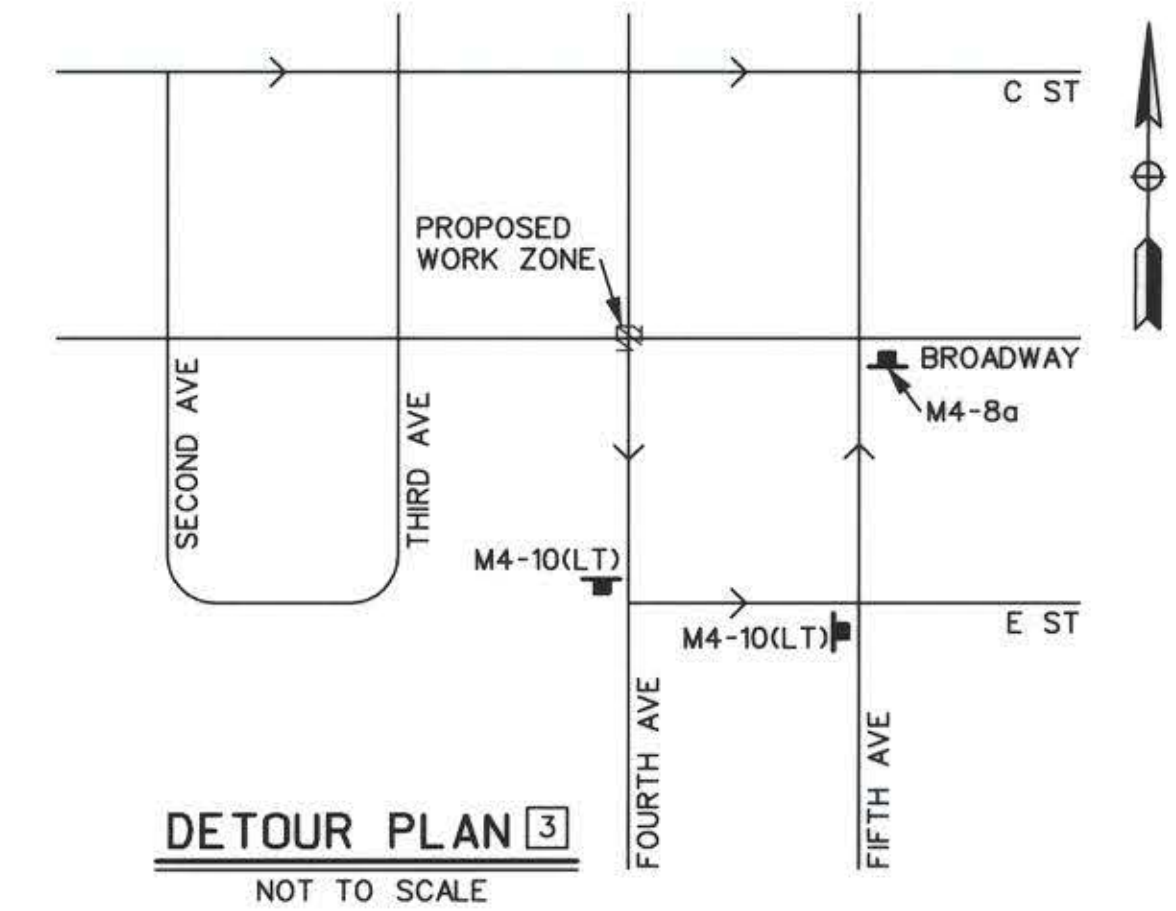
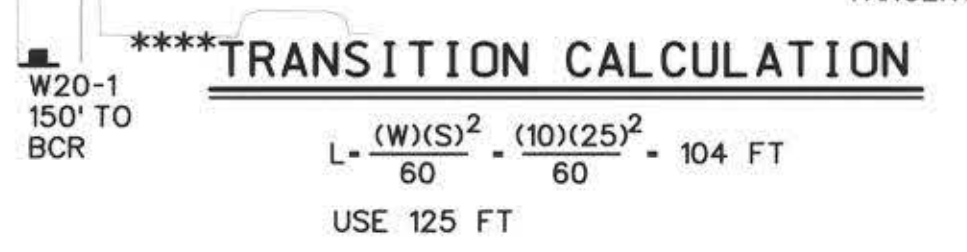
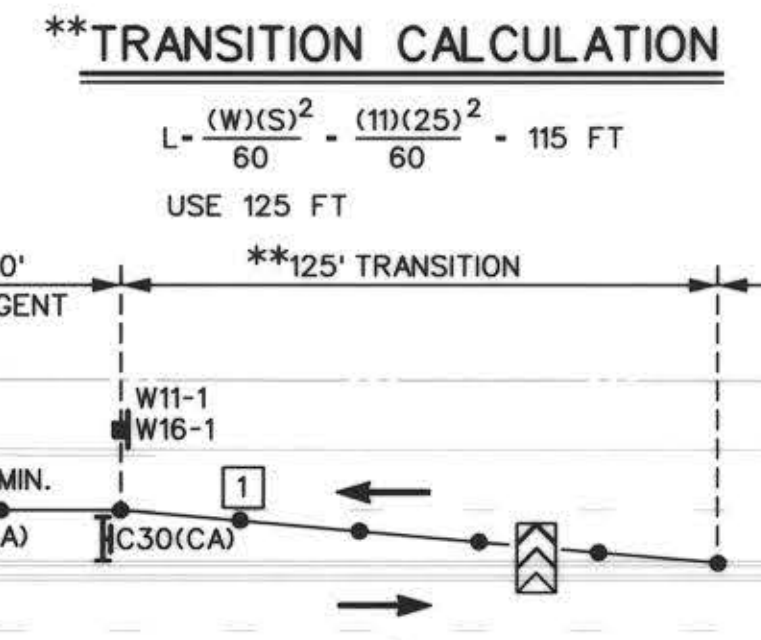
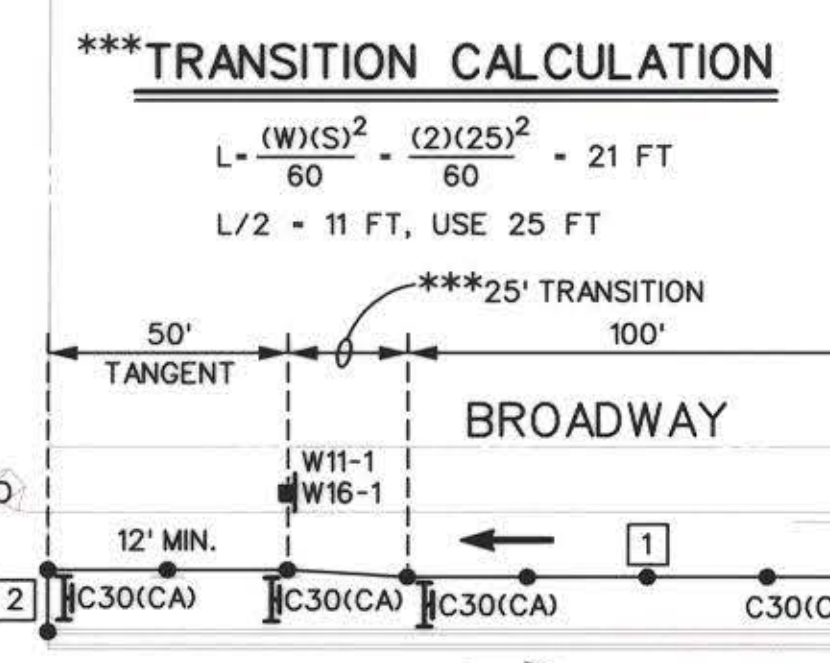
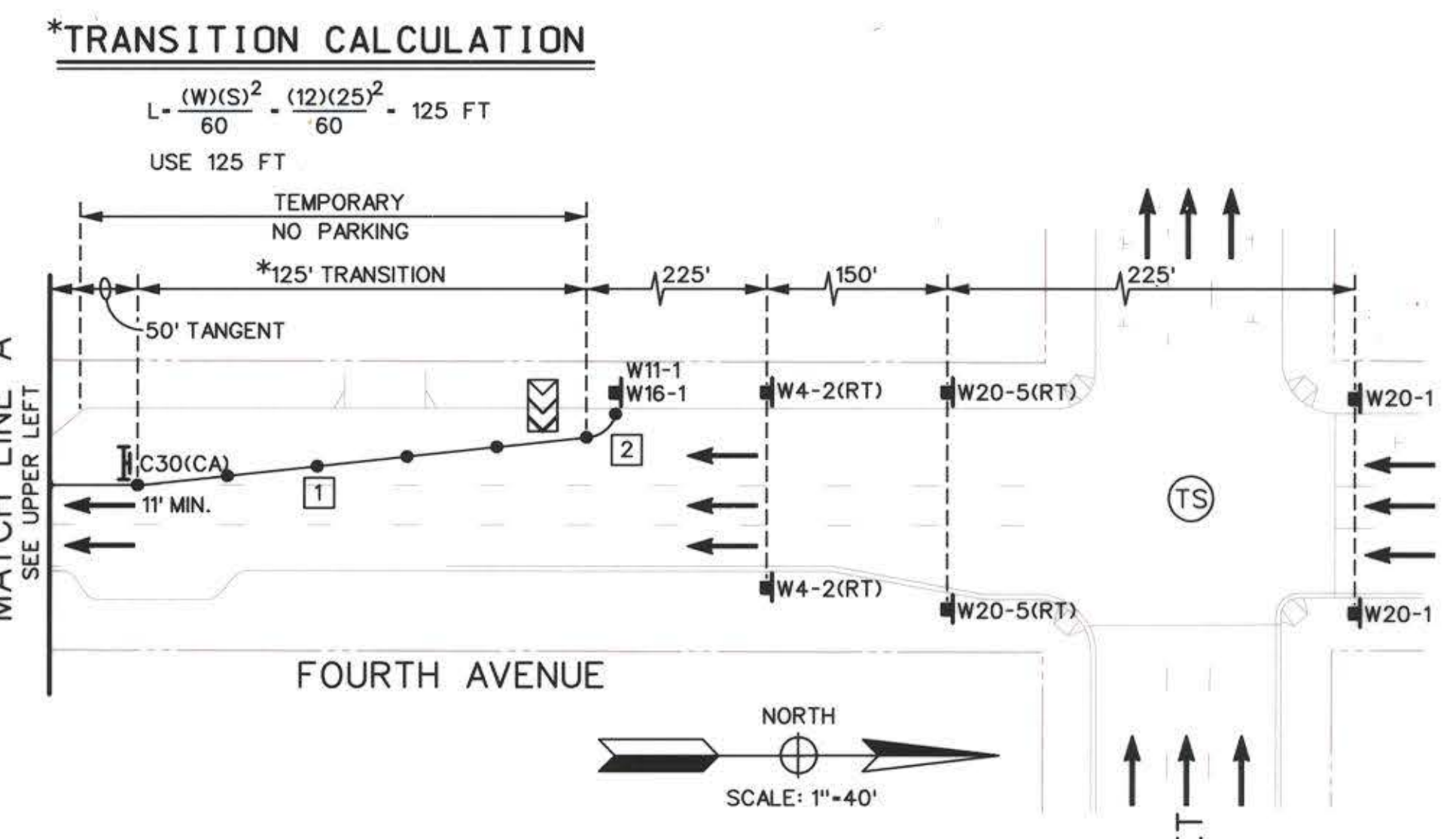
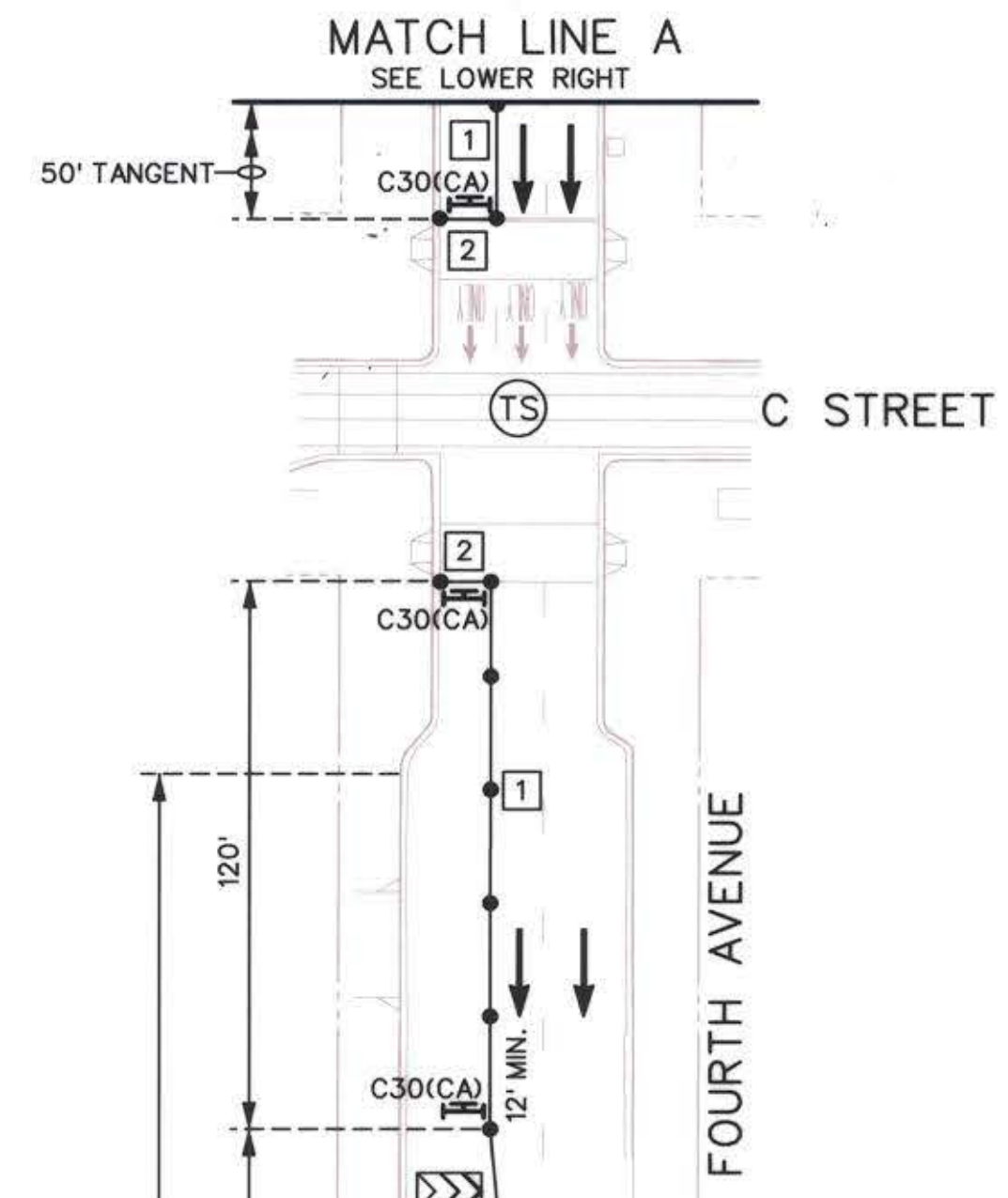
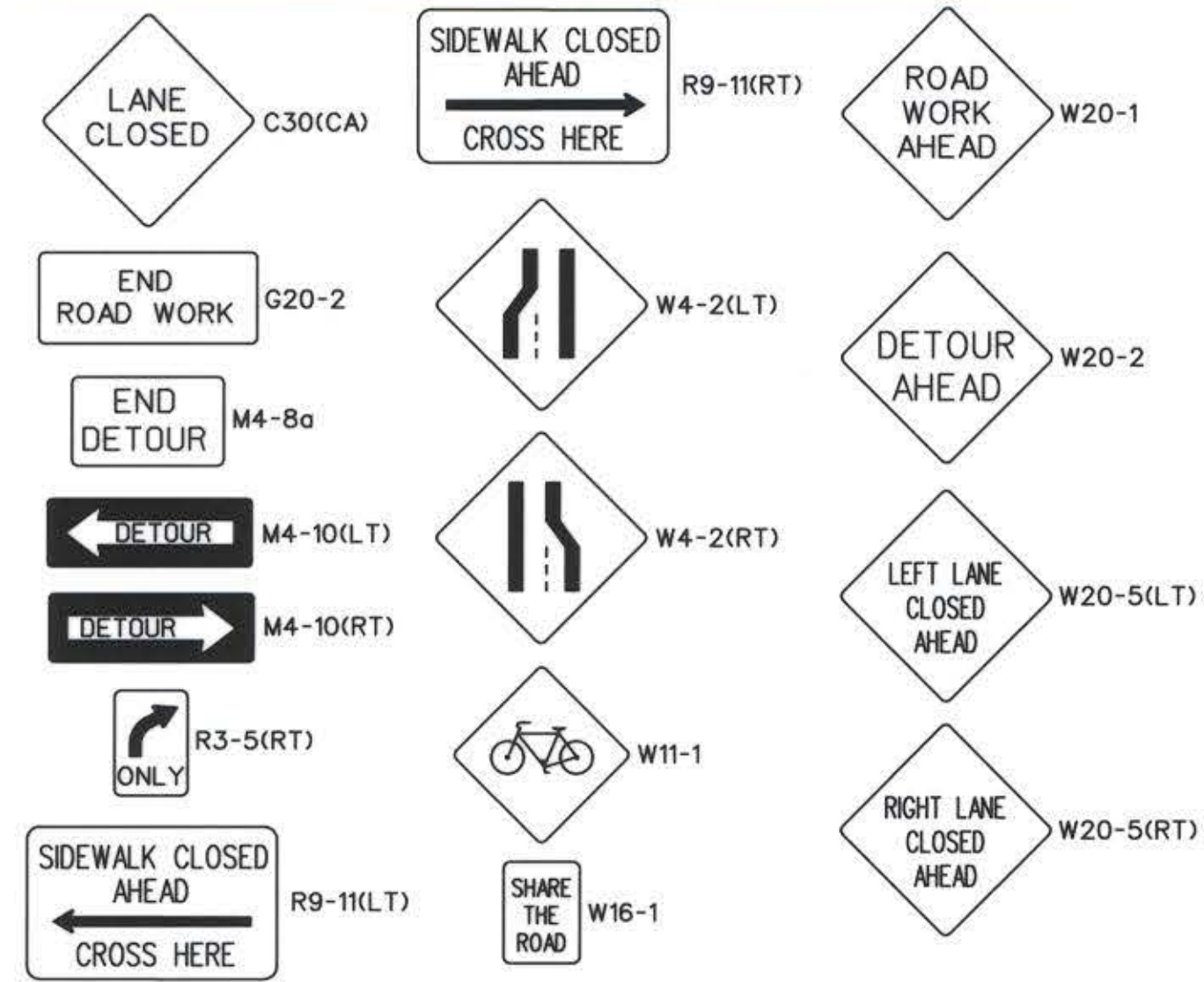
TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957  
 STATE STREET  
 (STAGE 50)**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 51 OF 54 SHEETS				WATER WBS B-11154 SEWER WBS B-11152
APPROVED FOR CITY ENGINEER	DATE	SUBMITTED BY: JIM HAGHIGOLY ASSOCIATE ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	LLG			
				CHECKED BY: BRIAN VITELLE PROJECT ENGINEER
				SEE CIVIL SHEETS CCS27 COORDINATE
				SEE CIVIL SHEETS CCS83 COORDINATE
CONTRACTOR	DATE STARTED	36689-T51-D		
INSPECTOR	DATE COMPLETED			



TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)



\*\*\*\*\*  
**PIPELINE CONSTRUCTION**  
 WORK HOURS 9:00 PM TO 5:00 AM  
 \*\*\*\*\*NIGHT WORK\*\*\*\*\*

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL SHALL BE SET TO RED FLASH AT FOURTH AVENUE/BROADWAY INTERSECTION  
 ALL OTHER TRAFFIC SIGNALS TO REMAIN OPERATIONAL AT OTHER INTERSECTIONS

- NOTES THIS SHEET**
- 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.
  - 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.
  - 3 SEE DETOUR PLAN THIS SHEET.

**DECLARATION OF RESPONSIBLE CHARGE**

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

**ENGINEER OF WORK**

JOHN P. KEATING R.C.E. 43595 DATE 11/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

**NOTE**

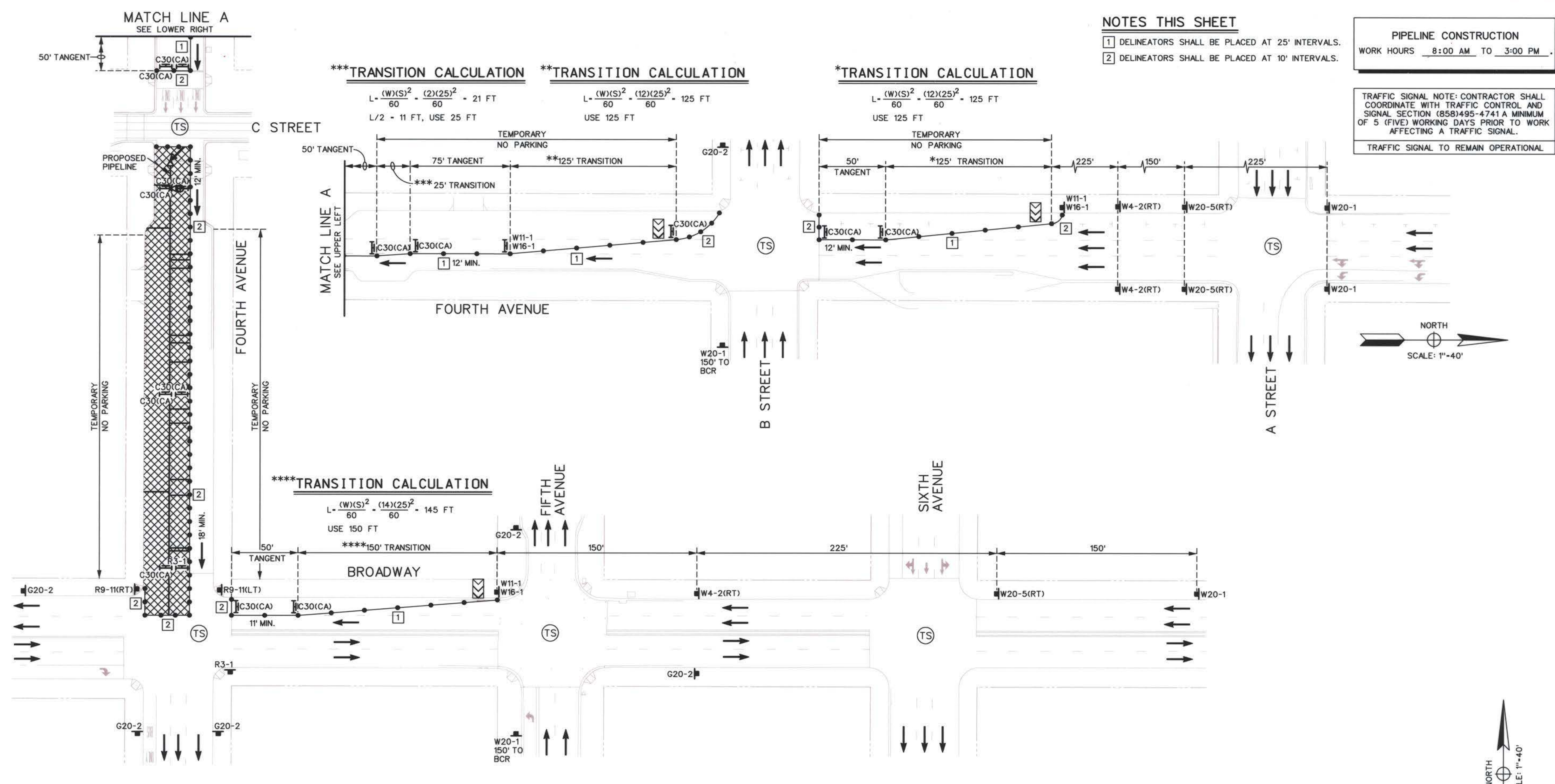
FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1. T-52

TRAFFIC CONTROL PLANS FOR:			
<b>SEWER AND WATER GROUP JOB 957 FOURTH AVENUE (STAGE 51)</b>			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 52 OF 54 SHEETS		WATER WBS B-11154 SEWER WBS B-11152	
APPROVED FOR CITY ENGINEER <i>Alfred Alameddine</i> 12/17/2012	DATE	SUBMITTED BY JIM HAGHGOLY ASSOCIATE ENGINEER	
CHECKED BY BRIAN VITELLE PROJECT ENGINEER	DESCRIPTION	BY	
ORIGINAL	LLG	APPROVED	
		DATE	
		FILMED	
CONTRACTOR	DATE STARTED	36689-T52-D	
INSPECTOR	DATE COMPLETED		

**TRAFFIC CONTROL DESIGN SPEED**  
 BROADWAY = 25 MPH  
 FOURTH AVENUE = 25 MPH



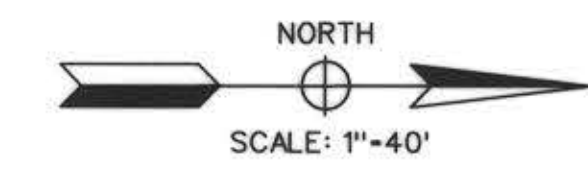




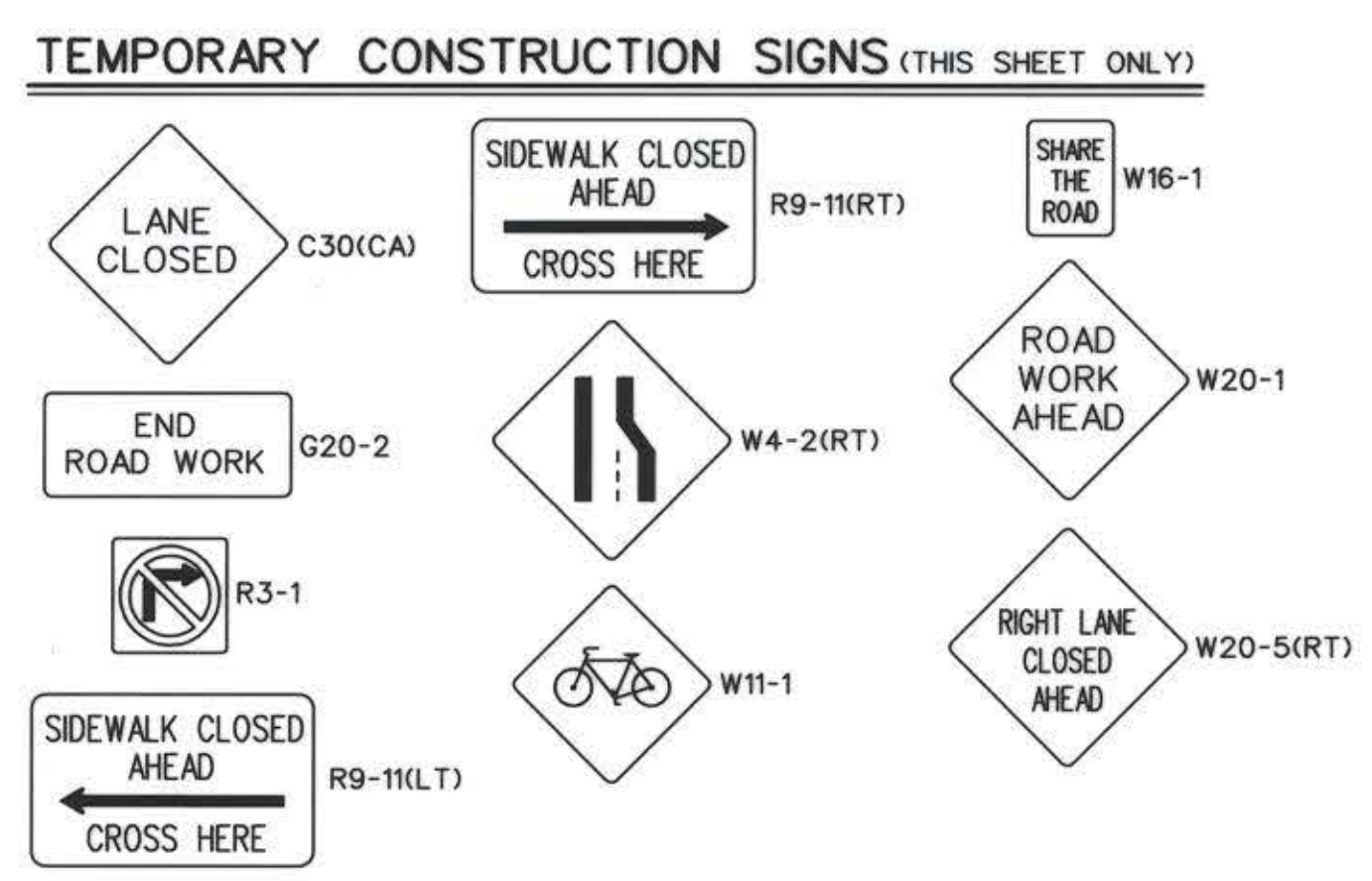
**NOTES THIS SHEET**  
 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.  
 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

**TRAFFIC SIGNAL NOTE:** CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**TRAFFIC CONTROL DESIGN SPEED**  
 BROADWAY = 25 MPH  
 FOURTH AVENUE = 25 MPH



**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

**ENGINEER OF WORK**

JOHN P. KEATING R.C.E. 43595 DATE 11/9/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)

LLG 3-076350-49.1 TC53-6350-49STG52.DGN 11/19/12  
 Designed By: JSM Drawn By: DVS Checked By: JPK

**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

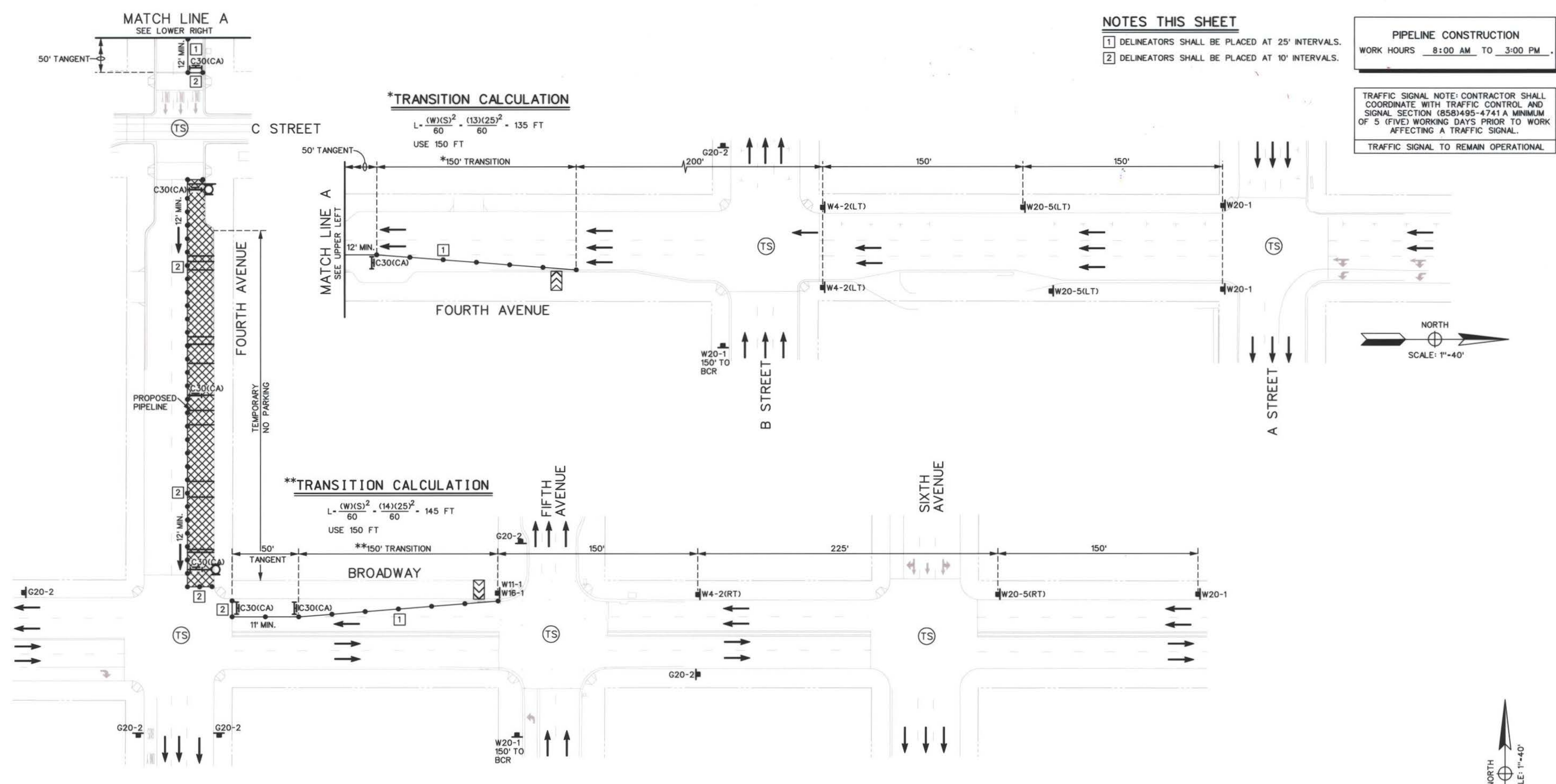
T-53

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957  
 FOURTH AVENUE  
 (STAGE 52)**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 53 OF 54 SHEETS		WATER WBS B-1154 SEWER WBS B-1152
APPROVED BY: <i>John P. Keating</i> FOR CITY ENGINEER	DATE: 12/17/2012	DESIGNED BY: JIM HAGHOLY ASSOCIATE ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	LLG	
		DATE
		FILMED
CONTRACTOR	DATE STARTED	36689-T53-D
INSPECTOR	DATE COMPLETED	



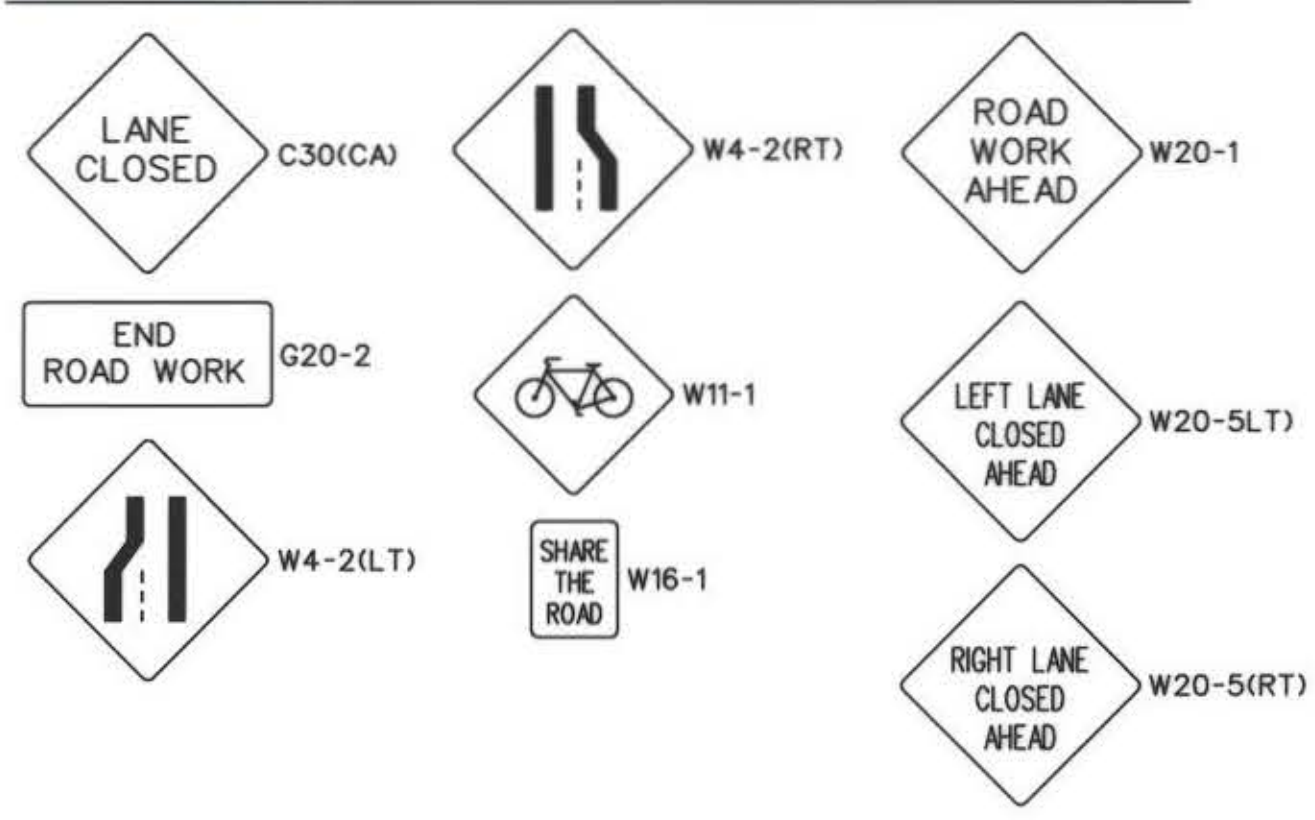


**NOTES THIS SHEET**  
 1 DELINEATORS SHALL BE PLACED AT 25' INTERVALS.  
 2 DELINEATORS SHALL BE PLACED AT 10' INTERVALS.

**PIPELINE CONSTRUCTION**  
 WORK HOURS 8:00 AM TO 3:00 PM

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL

**TEMPORARY CONSTRUCTION SIGNS (THIS SHEET ONLY)**



**TRAFFIC CONTROL DESIGN SPEED**  
 BROADWAY = 25 MPH  
 FOURTH AVENUE = 25 MPH

**DECLARATION OF RESPONSIBLE CHARGE**

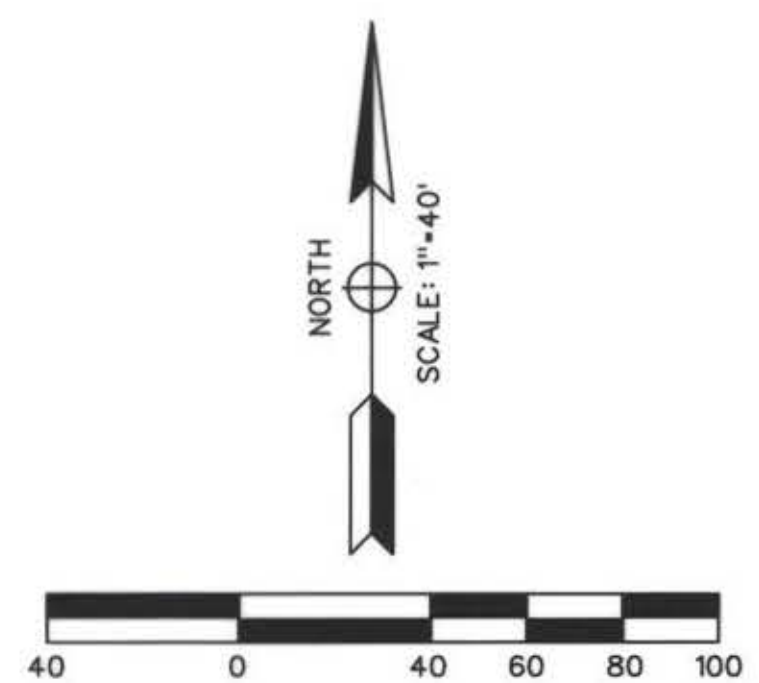
I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.  
 I UNDERSTAND THAT THE CHECK OF PROJECT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

**ENGINEER OF WORK**

*John P. Keating*  
 JOHN P. KEATING R.C.E. 43595 DATE 11/19/12



**LINSCOTT, LAW & GREENSPAN, ENGINEERS**  
 4542 Ruffner Street, Suite 100  
 San Diego, Ca 92111  
 (858)300-8800 (PH) (858)300-8810 (FX)



**NOTE**

FOR TRAFFIC CONTROL GENERAL NOTES AND LEGEND SEE SHEET 1.

T-54

TRAFFIC CONTROL PLANS FOR:

**SEWER AND WATER GROUP JOB 957  
 FOURTH AVENUE  
 (STAGE 53)**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 54 OF 54 SHEETS	WATER WBS B-11154 SEWER WBS B-11152			
FOR CITY ENGINEER <i>Amal Houdak</i> 12/17/2012	DESIGNED BY: JIM HAGHIGOLY ASSOCIATE ENGINEER			
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	LLG			
CONTRACTOR	DATE STARTED			
INSPECTOR	DATE COMPLETED			

36689-T54-D