

# City of San Diego

CONTRACTOR'S NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
TELEPHONE NO.: \_\_\_\_\_ FAX NO.: \_\_\_\_\_  
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Phone No. (619) 236-6669, Fax (619) 236-5904  
J.Stohr/BD/LJI

## CONTRACT DOCUMENTS



## FOR

## CAMINO DEL SUR RECYCLED WATER CONVERSION PROJECT

VOLUME 1 OF 2

BID NO.:	<u>K-13-5610-DBB-3</u>
SAP NO. (WBS/IO/CC):	<u>B-10200</u>
CLIENT DEPARTMENT:	<u>2013</u>
COUNCIL DISTRICT:	<u>1</u>
PROJECT TYPE:	<u>KA</u>

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

- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- PREVAILING WAGE RATES: **STATE**
- THIS IS A **PROP 50 GRANT FUNDED CONTRACT THROUGH THE STATE OF CALIFORNIA.**

**BID DUE DATE:**

**2:00 PM  
NOVEMBER 8, 2012  
CITY OF SAN DIEGO  
PUBLIC WORKS DEPARTMENT  
1200 THIRD AVENUE, SUITE 200, MS 56P  
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:

Charles R. St. John

1) Registered Engineer

10-3-2012

Date

Seal:



Hoyi Aja

2) For City Engineer

10-3-2012

Date



(((((((((((((((((((( **ATTENTION** ))))))))))))))))))

The 2010 edition of the City of San Diego Standard Specifications for Public Works Construction (“The WHITEBOOK”) now contains the following distinct Contract Documents:

- 1) ***Equal Opportunity Contracting Program Requirements*** - This Contract Document sets forth the standard requirements for the City’s equal opportunity contracting program. When additional requirements by the funding source e.g., federal or state agencies are physically included in the contract documents or by reference and there is a discrepancy, the funding source requirements shall govern unless specified otherwise in the Special Provisions.
  
- 2) ***City Supplement*** – The City Supplement shall be used in conjunction with the Standard Specifications for Public Works Construction (“The GREENBOOK”), 2009 Edition. The specifications contained in City Supplement take precedence over the specifications contained in The GREENBOOK, 2009 Edition.

Certain parts of the City Supplement have been highlighted in yellow for the convenience of the users only and shall not affect the interpretation of the Contract.

To obtain The GREENBOOK contact the publisher at: <http://www.bnibooks.com>

The WHITEBOOK is available only in electronic format under Engineering Documents and References at: <http://www.sandiego.gov/engineering-cip/>

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## REQUIRED DOCUMENTS SCHEDULE

This table is intended to serve as a convenient tool for listing forms and documents required at different times. It is neither exhaustive nor must be considered a Contract Document by itself. Therefore, the users must review the entire Contract Documents and become familiar with the required documentation and the submittal schedule associated with each document.

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

The specified EOC forms are all available for download from the EOC Program's web site at:

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

ITEM	WHEN	BY	WHAT
1.	BID DUE DATE/TIME	ALL BIDDERS	Proposal (Bid)
2.	BID DUE DATE/TIME	ALL BIDDERS	Bid Bond
3.	BID DUE DATE/TIME	ALL BIDDERS	Non-collusion Affidavit to be Executed By Bidder and Submitted with Bid under 23 USC 112 and PCC 7106
4.	BID DUE DATE/TIME	ALL BIDDERS	Contractors Certification of Pending Actions
5.	BID DUE DATE/TIME	ALL BIDDERS	Equal Benefits Ordinance Certification of Compliance
6.	BID DUE DATE/TIME	ALL BIDDERS	Form AA35 - List of Subcontractors
7.	BID DUE DATE/TIME	ALL BIDDERS	Form AA40 - Named Equipment/Material Supplier List
8.	WITHIN 3 WORKING DAYS OF BID OPENING	ALL BIDDERS	SLBE-ELBE Good Faith Documentations
9.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GFE	ALL BIDDERS	Form AA60 – List of Work Made Available
10.	WITHIN 3 WORKING DAYS OF BID OPENING	ALL BIDDERS	Proof of Valid DBE-MBE-WBE-DVBE Certification Status e.g., Certs.
11.	WITHIN 5 WORKING DAYS OF BID OPENING	ALL BIDDERS	Proposed substitutions per 4-1.6

## REQUIRED DOCUMENTS SCHEDULE

ITEM	WHEN	BY	WHAT
12.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Names of the principle individual owners of the Apparent Low Bidder - In the event the firm is employee owned or publicly held, then the fact should be stated and the names of the firm's principals and officers shall be provided.
13.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	If the Contractor is a Joint Venture, the following information must be submitted: <ul style="list-style-type: none"> <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
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

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

1. **INTRODUCTION.** This contract is subject to the requirements of the SLBE Program as specified in the SLBE-ELBE section of the City’s EOCP Requirements included in The WHITEBOOK.
  - 1.1. The Bidders are required to review The WHITEBOOK and become familiar with the detailed specifications including the required documentation and the submittal schedule as related to SLBE-ELBE program.
  
2. **AMENDMENTS TO THE CITY’S GENERAL EOCP REQUIREMENTS.**
  - III. **Equal Employment Opportunity Outreach Program (A).** **DELETE** in its entirety and **SUBSTITUTE** with the following:
    - A. Competitive Bids. If a contract is competitively solicited, the Apparent Low Bidder shall submit a *Work Force Report (Form BB05)* or an Equal Employment Opportunity (EEO) Plan, within 10 Working Days after receipt by the Bidder of Contract forms to the City for approval as specified in the Notice of Intent to Award letter from the City.
  
3. **AMENDMENTS TO THE CITY’S EOCP SLBE-ELBE REQUIREMENTS.**
  - VIII. **Subcontracting Efforts Review and Evaluation (2b).** **DELETE** in its entirety and **SUBSTITUTE** with the following:
    - b) “Make information of forthcoming opportunities available to SLBE-ELBE firms and arrange time for contracts and establish delivery schedules, where requirements permit, in a way that encourages and facilitates participation by SLBE-ELBE firms in the competitive process. This includes posting solicitations for bids or proposals for a minimum of 10 Working Days before the Bid or Proposal due date.”
  
  - VIII. **Subcontracting Efforts Review and Evaluation (3) and (4).** **DELETE** in its entirety and **SUBSTITUTE** with the following:
    3. Good Faith Effort Documentation Requirements  
  
If the stated SLBE-ELBE subcontractor participation percentages are not met, the Bidder shall submit, within 3 Working Days of the Bid opening, information necessary to establish adequate good faith efforts were taken to meet the contract subcontractor participation percentages. The required documentation includes the following:

A. SLBE-ELBE WRITTEN SOLICITATION REQUIREMENTS

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

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

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

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

#### B. SLBE-ELBE WRITTEN SOLICITATION FOLLOW UP REQUIREMENTS

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

1. Follow up communications must start no less than 5 business days prior to bid opening.

2. Bidders must make at least three follow-up telephone calls to each SLBE – ELBE firm.

2.1. Bidders are not required to make and/or may stop making follow-up telephone calls once the SLBE-ELBE firm has provided written verification accepting or declining to bid the project. Written verification from SLBE-ELBE firm must be project specific.

2.2. Bidders must provide copy of written verification received from SLBE-ELBE firms with Good Faith Effort documentation.

2.3. Submit a telephone log, as proof of telephone calls, with the following requirements: project name, name of person making the phone call, name of firm contacted, contact person's name, date of call, time of call, and details of conversation.

#### C. SUBCONTRACT AWARD SUMMARY

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

1. A **DETAILED** summary sheet which includes bid item number, scope of work, subcontractor/vendor name, bid amount, certification type, subcontractor/vendor selection and reason for selection / non-selection of all the subcontractors/vendors that responded.

2. Copies of all subcontract/vendor bids received including bids for areas of work that were not included in the outreach and bids from both certified and non-certified subcontractors/vendors. If the Bidder decides to Self-Perform a scope of work, the Bidder **MUST** submit a detailed bid to show that the Bidder's price is competitive to the price of the subcontractors/vendors that responded to outreach efforts. All verbal bids **MUST** be substantiated by corresponding written bid from subcontractors/vendors.

#### D. OUTREACH ASSISTANCE REQUIREMENTS

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

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



6. Written notice must state that assistance is available from the bidder for SLBE-ELBE firms in obtaining bonding, lines of credit or insurance.
7. Bidders must provide copies of **ALL** notices with one of the following forms of verification that the notices were sent: a) If mailed: provide copies of the metered envelopes or certified mail receipts b) If faxed: provide copies of the fax transmittal confirmation sheet(s) c) If emailed: provide copies of the email delivery confirmation sheet(s). No credit shall be given for error messages, busy, cancelled, undeliverable, etc.

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

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

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

**4.1.** The City has incorporated **mandatory** SLBE-ELBE subcontractor participation percentages to enhance competition and maximize subcontracting opportunities. For the purpose of achieving the mandatory subcontractor participation percentages, a recommended breakdown of the SLBE and ELBE subcontractor participation percentages based upon certified SLBE and ELBE firms has also been provided to achieve the mandatory subcontractor participation percentages:

1. SLBE participation	8.2%
2. ELBE participation	14.1%
3. Total mandatory participation	22.3%

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

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

6. **MANDATORY CONDITIONS.** Bid will be declared **non-responsive** if the Bidder fails the following mandatory conditions.
  - 6.1. Bidder's inclusion of SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; **OR**
  - 6.2. Bidder's submission of Good Faith Effort documentation demonstrating the Bidder made a good faith effort to outreach to and include SLBE-ELBE Subcontractors required in this document within 3 Working Days of the Bid opening if the overall mandatory participation percentage is not met.
7. **BID DISCOUNT.** This contract is subject to the Bid Discount program as described in The WHITEBOOK, SLBE-ELBE Program Requirements, Section IV(2).
8. **RESOURCES.** The current list of certified SLBE-ELBE firms can be found on the EOC Department website at <http://www.sandiego.gov/eoc/>

# CITY OF SAN DIEGO, CALIFORNIA

## INVITATION TO BIDS

- RECEIPT AND OPENING OF BIDS:** Bid(s) will be received at the Public Works Contracting Group at **1200 THIRD AVENUE, SUITE 200, SAN DIEGO, CA 92101 UNTIL 2:00 PM ON NOVEMBER 8, 2012** for performing work on the following project (Project):

### Camino Del Sur Recycled Water Conversion Project

- 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:

Construct 100 feet of 24-inch steel pipe, 2,600 feet of 16-inch PVC pipeline, and conversion of existing purple water pipe to recycled water.

The Work shall be performed in accordance with:

- Bid No. **K-13-5610-DBB-3** and Plans numbered **36608-1-D** through **36608-13-D**, and **36608-T1-D** through **36614-14T-D**, inclusive.

- ENGINEER'S ESTIMATE:** The Engineer's estimate of the most probable price for this contract is **\$988,000.00**.
- LOCATION OF WORK:** The location of Work is Citywide unless specified otherwise as follows:

### Camino Del Sur, San Diego, CA 92129

- CONTRACT TIME:** The Contract Time for completion of the Work shall be **126 Working Days**
- CONTRACTOR'S LICENSE CLASSIFICATION:** In accordance with the provisions of California Law, the Contractor shall possess valid appropriate license(s) at the time that the Bid is submitted. Failure to possess the specified license(s) shall render the Bid as **non-responsive** and shall act as a bar to award of the Contract to any Bidder not possessing required license(s) at the time of Bid.

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

Option	Classification(s)
1	CLASS A
2	CLASS C42

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

7. **PRE-BID CONFERENCE:** There will be a Pre-Bid Conference to discuss the scope of the Project, bidding requirements, and Equal Opportunity Contracting Program requirements and reporting procedures in the Public Works Contracting Group, Conference Room at 1200 Third Avenue, Suite 200, San Diego, CA 92101 at **10:00 A.M., on October 24, 2012.**

All potential bidders are encouraged to attend.

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

8. **CITY CONTACT INFORMATION:** See the cover of the Contract Documents.
9. **REFERENCE STANDARDS:** Except as otherwise noted or specified, the Work shall be completed in accordance with the following standards:

1. STANDARD SPECIFICATIONS

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

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

2. STANDARD DRAWINGS

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

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

**10. WAGE RATES:** Prevailing wages are applicable to this project. See Funding Agency Provisions that follow this Invitation to Bid for more information.

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

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

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

Tony Heinrichs  
Director  
Public Works Department

## INSTRUCTIONS TO BIDDERS

- 1. PREQUALIFICATION OF CONTRACTORS:** The contractor(s) who intend to submit Bid or Proposal in response to this invitation to bid, or RFP's for GRC or As-Needed Design-Build Task Orders valued over \$50,000, must be pre-qualified for total amount proposed, inclusive of all alternate bid items or the specified Task Order limits prior to the date of Bid submittal.

For this GRC Contract, potential bidders must be prequalified through the City's Contractor Prequalification Program and receive a Maximum Bidding Capacity of \$2,250,000 or greater.

Bids from contractors who have not been pre-qualified as applicable, and Bids that exceed the maximum dollar amount at which contractors are pre-qualified, will be deemed **non-responsive** and ineligible for award or a Task Order authorization. Complete information and prequalification questionnaires are available at:

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

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

- 2. CONTRACTOR REGISTRATION:** Prospective bidder(s) as well as existing contractors and suppliers are required to register with the City's EOCP. Refer to 2-17, "CONTRACTOR REGISTRATION" for details.
- 3. CITY'S RESPONSES AND ADDENDA:** The City at its option, may respond to any or all questions submitted in writing, via letter, or FAX in the form of an addendum. No oral comment shall be of any force or effect with respect to this solicitation. The changes to the Contract Documents through addendum are made effective as though originally issued with the Bid. The Bidders shall acknowledge the receipt of Addenda on the form provided for this purpose in the Bid.
- 4. CITY'S RIGHTS RESERVED:** The City reserves the right to cancel the Invitation to Bids at any time, and further reserves the right to reject submitted Bids, without giving any reason for such action, at its sole discretion and without liability. Costs incurred by the Bidder(s) as a result of preparing Bids under the Invitation to Bid shall be the sole responsibility of each bidder. The Invitation to Bid creates or imposes no obligation upon the City to enter a contract.
- 5. CONTRACT PRICING FORMAT:** This solicitation is for a Lump Sum contract with Unit Price provisions as set forth in the Bid Proposal Form(s), Volume 2 unless specified otherwise such as as-needed contracts e.g., GRC in the Contract Documents.
- 6. SUBMITTAL OF "OR EQUAL" ITEMS:** See 4-1.6, "Trade Names or Equals."

7. **AWARD PROCESS:** The Award of this contract is contingent upon the Contractor's compliance with all conditions precedent to Award, including the submittal of acceptable insurance and surety bonds pursuant to San Diego Municipal Code § 22.3007.

If the responsible Bid does not exceed the City's engineering estimate, the City will, in most cases, prepare contract documents for execution within 3 weeks of the date of the Bid opening and award the Contract within 5 Working Days of receipt of properly executed Contract, bond, and insurance documents.

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

8. **SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 2-3, "SUBCONTRACTS" which requires the Contractor to perform not less than the amount therein stipulated with its own forces. Failure to comply with these requirements may render the Bid **non-responsive** and ineligible for award.

9. **AVAILABILITY OF PLANS AND SPECIFICATIONS:** Contract Documents may be obtained by visiting the City's website: <http://www.sandiego.gov/engineering-cip/services/consultcontract/advertising.shtml>. Plans and Specifications for this contract are also available for review in the office of the City Clerk or Public Works Contracting Group.

10. **QUESTIONS:** The Director (or designee), of the Public Works Department is the officer responsible for opening, examining, and evaluating the competitive Bids submitted to the City for the acquisition, construction and completion of any public improvement except when otherwise set forth in these documents. All questions related to this procurement action shall be addressed to the Contract Specialist identified on the cover page..

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

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

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

11. **ELIGIBLE BIDDERS:** No person, firm, or corporation shall be allowed to make, file, or be interested in more than 1 Bid for the same work unless alternate Bids are called for. A person, firm or corporation who has submitted a sub-proposal to a Bidder, or who has quoted prices on materials to a Bidder, is not hereby disqualified from submitting a sub-proposal or quoting prices to other Bidders or from submitting a Bid in its own behalf.

12. **SAN DIEGO BUSINESS TAX CERTIFICATE:** All Contractors, including Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, first floor, before the Contract can be executed.
13. **PROPOSAL FORMS:** Bid shall be made only upon the Bidding Documents i.e., Proposal form attached to and forming a part of the specifications. The signature of each person signing shall be in longhand.

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

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

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

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

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

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

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

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

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

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



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

Bidders will not be released on account of their errors of judgment. Bidders may be released only upon receipt by the City from the Bidder within 3 Working Days, excluding Saturdays, Sundays, and state holidays, after the opening of Bids, of written notice which includes proof of honest, credible, clerical error of material nature, free from fraud or fraudulent intent, and of evidence that reasonable care was observed in the preparation of the Bid.

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

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

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

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

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

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

- 17. THE CONTRACT:** The Bidder to whom award is made shall execute a written contract with the City of San Diego and furnish good and approved bonds and insurance certificates specified by the City within 10 Working Days after receipt by Bidder of a form of contract for execution unless an extension of time is granted to the Bidder in writing.

If the Bidder takes longer than 10 Working Days to fulfill these requirements, then the additional time taken shall be added to the Bid guarantee. The Contract shall be made in the form adopted by the City, which includes the provision that no claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.

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

For contracts that are not Design-Build, pursuant to the San Diego City Charter section 94, the City may only award a public works contract to the lowest responsible and reliable Bidder. The City will require the Apparent Low Bidder to (i) submit information to determine the Bidder's responsibility and reliability, (ii) execute the Contract in form provided by the City, and (iii) furnish good and approved bonds and insurance certificates specified by the City within 10 Working Days, unless otherwise approved by the City, in writing after the Bidder receives notification from the City, designating the Bidder as the Apparent Low Bidder and formally requesting the above mentioned items.

The award of the Contract is contingent upon the satisfactory completion of the above mentioned items and becomes effective upon the signing of the Contract by the Mayor or designee. If the Apparent Low Bidder does not execute the Contract or submit required documents and information, the City may award the Contract to the next lowest responsible and reliable Bidder who shall fulfill every condition precedent to award. A corporation designated as the Apparent Low Bidder shall furnish evidence of its corporate existence and evidence that the officer signing the Contract and bond for the corporation is duly authorized to do so.

**18. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK:** The Bidder shall examine carefully the Project Site, the Plans and Specifications, the GRC Unit Price Books if applicable, other materials as described in the Special Provisions, Section 2-7, and the proposal forms (e.g., Bidding Documents) therefore. The submission of a Bid or GRC Task Order Proposal shall be conclusive evidence that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of Work, the quantities of materials to be furnished, and as to the requirements of the Bidding Documents Proposal, Plans, and Specifications.

**19. DRUG-FREE WORKPLACE:**

a) General:

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

b) Definitions:

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

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

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

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

c) City Contractor Requirements:

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

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

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

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

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

**20. AMERICANS WITH DISABILITIES ACT:**

- a) General: City projects are subject to City of San Diego Resolution No. R-282153 adopted on June 14, 1993. The Bidders shall become aware of the provisions of Council Policy 100-04 which was established by Resolution No. R-282153. The policy applies equally to the Contractor and all Subcontractors. The elements of the policy are outlined below.
- b) Definitions:
  - "Qualified individual with a disability" means an individual with a disability who satisfies the requisite skill, experience, education and other job-related requirements of the employment position such individual holds or desires, and who, with or without reasonable accommodation, can perform the essential functions of such position.
  - "Employee" means the employee of the Contractor directly engaged in the performance of Work.
- c) The City Requirements: Every person or organization entering into a contractual agreement with or receiving a grant from the City of San Diego shall certify to the City of San Diego that it will comply with the ADA by adhering to all of the provisions of the ADA listed below.
  - i. The Contractor shall not discriminate against qualified persons with disabilities in any aspects of employment, including recruitment, hiring, promotions, conditions and privileges of employment, training, compensation, benefits, discipline, layoffs, and termination of employment.
  - ii. No qualified individual with a disability may be excluded on the basis of disability, from participation in, or be denied the benefits of services, programs, or activities by the Contractor or Subcontractors providing services for the City.
  - iii. The Contractor shall post a statement addressing the requirements of the ADA in a prominent place at the worksite. The Contractor shall include in each subcontract agreement, language which indicates the Subcontractor's agreement to abide by the provisions of subdivisions (a) through (c) inclusive of Section 3. The Contractor and Subcontractors shall be individually responsible for their own ADA employment programs. Questions about the City's ADA Policy should be referred to the Contract Administrator.

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

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

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

[http://www.sandiego.gov/purchasing/pdf/contractor\\_standards\\_questionnaire.pdf](http://www.sandiego.gov/purchasing/pdf/contractor_standards_questionnaire.pdf).

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

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

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

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

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

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

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

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

- 24. APPRENTICES ON PUBLIC WORKS:** The Contractor shall abide by the requirements of §§1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.
- 25. EQUAL BENEFITS:** This Contract Is Subject To The City’s Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 Of The San Diego Municipal Code (SDMC).

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

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

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

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

**26. PRE-AWARD ACTIVITIES:**

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

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

# FUNDING AGENCY PROVISIONS

## FUNDING AGENCY PROVISIONS

**IN THE EVENT THAT THESE REQUIREMENTS CONFLICT WITH THE CITY'S GENERAL EOC REQUIREMENTS, THE FUNDING AGENCY'S REQUIREMENTS WILL CONTROL.**

**1. STATE REQUIREMENTS FOR CONTRACTS SUBJECT TO STATE PREVAILING WAGE REQUIREMENTS:**

- 1.1.** In accordance with the provisions of California Labor Code Sections 1770, et seq. as amended, the Director of the Department of Industrial Relations has determined the general prevailing rate of per diem wages in accordance with the standards set forth in such Sections for the locality in which the Work is to be performed. Copies of the prevailing rate of per diem wages may be found at [http://www.dir.ca.gov/dlsr/statistics\\_research.html](http://www.dir.ca.gov/dlsr/statistics_research.html). The Contractor shall post a copy of the above determination of the prevailing rate of per diem wages at each job site and shall make them available to any interested party on request.
- 1.2.** Pursuant to Sections 1720 et seq., and 1770 et seq., of the California Labor Code the Contractor any Subcontractor shall pay not less than said specified rates determined by the Director of the California Department of Industrial Relations to all workmen employed by them in the execution of the Work.
- 1.3.** The wage rates determined by the Director of Industrial Relations and published in the Department of Transportation publication entitled, "General Prevailing Wage Rates", refer to expiration dates. If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, said published rate of wage shall be in effect for the life of this contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the Department of Industrial Relations, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of this contract, each successive predetermined wage rate shall apply to this contract on the date following the expiration date of the previous wage rate. If the last of such predetermined wage rates expires during the life of this contract, such wage rate shall apply to the balance of the contract.

The successful bidder intending to use a craft or classification not shown on the prevailing rate determinations may be required to pay the rate of the craft or classification most closely related to it.



# 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 CO., INC \_\_\_\_\_, herein called "Contractor" for construction of Camino Del Sur Recycled Water Conversion Project; Bid No. K-13-5610-DBB-3; in the amount of ONE MILLION NINETY FOUR THOUSAND FIVE HUNDRED THIRTY DOLLARS AND 30/100 (\$1,094,530.30), which is comprised of the Base Bid alone.

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

1. The following are incorporated into this contract as though fully set forth herein:
  - (a) The attached Faithful Performance and Payment Bonds.
  - (b) The attached Proposal included in the Bid documents by the Contractor.
  - (c) That certain documents entitled Camino Del Sur Recycled Water Conversion Project, on file in the office of the City Clerk/ Public Works Department as Document No. B-10200, as well as all matters referenced therein.
2. Contractor shall perform and be bound by all the terms and conditions of this contract and in strict conformity therewith shall perform and complete in a good and workmanlike manner Camino Del Sur Recycled Water Conversion Project, Bid Number K-13-5610-DBB-3, San Diego, California.
3. For such performances, the City shall pay to Contractor the amounts set forth at the times and in the manner and with such additions or deductions as are provided for in this contract, and Contractor shall accept such payment in full satisfaction of all claims incident to such performances.
4. No claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
5. This contract is effective as of the date that the Mayor or designee signs the agreement.

**CONTRACT FORMS (continued)  
AGREEMENT**

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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(a)(1) authorizing such execution.

**THE CITY OF SAN DIEGO**

**APPROVED AS TO FORM AND LEGALITY**

Jan I. Goldsmith, City Attorney

By Paul D. Chopin

By [Signature]

Print Name: Paul D. Chopin  
Mayor or designee

Print Name: Ram Palomucci  
Deputy City Attorney

Date: 02/01/13

Date: 2/5/13

**CONTRACTOR**

By [Signature]

Print Name: Austin Cameron

Title: Secretary

Date: 12/21/12

City of San Diego License No.: B1987004773

State Contractor's License No.: 402459

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

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

\_\_\_\_\_ TC CONSTRUCTION CO., 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  
ONE MILLION NINETY FOUR THOUSAND FIVE HUNDRED THIRTY DOLLARS AND  
30/100 (\$1,094,530.30) for the faithful performance of the annexed contract, and in the sum of  
ONE MILLION NINETY FOUR THOUSAND FIVE HUNDRED THIRTY DOLLARS AND  
30/100 (\$1,094,530.30) for the benefit of laborers and materialmen designated below.

**Conditions:**

If the Principal shall faithfully perform the annexed contract Camino Del Sur Recycled Water Conversion Project, Bid Number K-13-5610-DBB-3, San Diego, California then the obligation herein with respect to a faithful performance shall be void; otherwise it shall remain in full force.

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

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

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

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

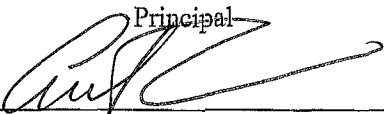
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The Surety shall pay reasonable attorney's fees should suit be brought to enforce the provisions of this bond.

Dated December 28, 2012

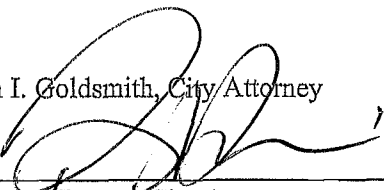
Approved as to Form and Legality

TC Construction Company, Inc.

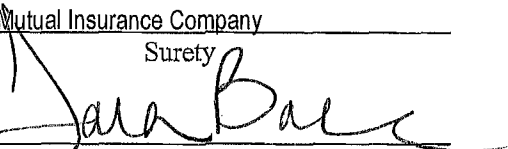
Principal  
By 

Austin Cameron, secretary.  
Printed Name of Person Signing for Principal

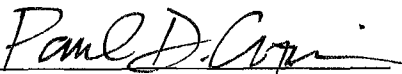
Jan I. Goldsmith, City Attorney

By   
Deputy City Attorney

Liberty Mutual Insurance Company  
Surety

By   
Tara Bacon, Attorney-in-fact

Approved:

By   
Mayor or Designee

790 The City Drive, Suite 200  
Local Address of Surety

Orange, CA 92868  
Local Address (City, State) of Surety

(800) 763-9268  
Local Telephone No. of Surety

Premium \$ 9,399.00

Bond No. 024046059

## ACKNOWLEDGMENT

State of California  
County of San Diego

On December 28, 2012 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 \_\_\_\_\_

A handwritten signature in cursive script, appearing to read "Maria Hallmark", written over a horizontal line.

(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 28th day of December, 20 12.



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.

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

CIVIL CODE § 1189

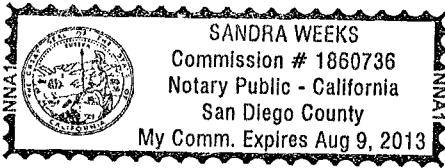
State of California

County of San Diego }

On December 31, 2012 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

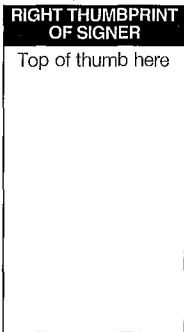
Attorney in Fact  Attorney in Fact

Trustee  Trustee

Guardian or Conservator  Guardian or Conservator

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

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



# CONTRACTOR CERTIFICATION

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## DRUG-FREE WORKPLACE

**PROJECT TITLE:** Camino Del Sur Recycled Water Conversion Project

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

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: Camino Del Sur Recycled Water Conversion Project

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

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:** Camino Del Sur Recycled Water Conversion Project

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

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

Dated this 21<sup>st</sup> Day of December, 2012

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:

\_\_\_\_\_  
Camino Del Sur Recycled Water Conversion Project  
\_\_\_\_\_  
(Name of Project)

as particularly described in said contract and identified as Bid No. **K-13-5610-DBB-3; SAP No. (WBS/IO/CC) B-10200**; 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)**

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

### **STYLE OF SPECIFICATIONS**

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

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

### **PART 1 – GENERAL PROVISIONS**

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

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

**Agency** – ADD the following:

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

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

The Agreement, Addendum, Invitation to Bid, Instructions to Bidders, special notice page, funding agency provisions, Bid and documentation accompanying the Bid and any post-bid documentation submitted prior to the Notice of Award when attached as an exhibit to the Contract, Bonds, permits from jurisdictional regulatory agencies, Supplementary Special Provisions (SSP), City's EOCP Requirements, City Supplement, Plans, Standard Plans, Construction Documents, Reference Specifications listed in the Invitation to Bid or the RFP for Design-Build contracts, Request for Qualifications (RFQ), Statement of Qualifications (SOQ), Request for Proposals (RFP), modifications issued after the execution of the Contract e.g., Change Orders, Construction Manager At Risk's Guaranteed Maximum Price including written qualifications, assumptions and conditions thereto and Pre-construction Services Agreement.

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

**Notice of Completion (NOC)** – ADD the following:

See California Civil Code section 3093.

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

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

The Normal Working Hours shall be **8:30 AM to 3:00 PM**.

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

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

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

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

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

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

**2-3.1.2 Subcontractor List.** ADD the following:

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

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

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

**2-3.3 Status of Subcontractors.** ADD the following:

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

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

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

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

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

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

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

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

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

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

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

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

**2-5.4.1 General.** ADD the following:

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

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

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

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

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

**2-7 SUBSURFACE DATA.** ADD the following:

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

1. Report of Geotechnical Evaluation dated June 16, 2011 by Ninyo & Moore and Associates.
2. The report listed above is available for review by contacting the City Contact.

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

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

**2-11 INSPECTION.** ADD the following:

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

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

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

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

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

### **SECTION 3 – CHANGES IN WORK**

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

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

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

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

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

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

**4-1.3.4 Inspection Paid For By the Contractor.** To the City Supplement, ADD the following:

The Contractor shall employ and pay for the services of qualified inspection entity to perform specialty inspection services as specified here:

- Welding Inspection.



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

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

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

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

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

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

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

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

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

ADD the following:

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

- a) The Contractor shall submit its list of proposed substitutions for "an equal" ("or equal") item(s) **no later than 5 Working Days after the determination of the Apparent Low Bidder** and on a City form when provided by the City.
- b) The request for substitution shall include the following information:
  - i. Whether or not acceptance of the substitute for use in the Work will require a change in any of the Contract Documents to adopt the design to the proposed substitute.
  - ii. Whether or not incorporation or use of the substitute in connection with the Work is subject to payment of any license fee or royalty.
  - iii. All variations of the proposed substitute from the items originally specified will be identified.

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

## **SECTION 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK**

**6-1.2 Commencement of Work.** To the GREENBOOK and the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

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

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

- a) Up to 5 Working Days from the Pre-construction Meeting, or

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

The Contractor shall notify SDG&E at least 10 Working Days prior to excavating within 10’ of SDG&E Underground High Voltage Transmission Power Lines (i.e., 69 KV and higher).

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

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

This contract is subject to Phased Funding.

**ADD: 6-1.8 Pre-construction Meeting.** Within 20 Working Days from the Limited NTP the Engineer will schedule a mandatory pre-construction meeting (Pre-construction Meeting) with the Contractor. The agenda will include items such as NTP, design services and submittal and review process for Design-Build contracts, critical elements of the work schedule, submittal schedule, cost breakdown of major lump sum items, payment requests and processing, environmental and community concerns, coordination with the involved utility firms, the level of record project documents required and emergency telephone numbers for all representatives involved in the course of construction.

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

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

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

**6-8.1 Completion.** The Contractor shall submit a written assertion that the Work has been completed. If, in the Engineer’s judgment, the Work has been completed in accordance with the Contract Documents, the Engineer will set forth in writing the date the Work was completed. This will be the date when the Contractor is relieved from responsibility to protect and maintain the Work.

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

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

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

**6-8.3 Warranty.** Unless specified otherwise, the Work shall be warranted by the Contractor against defective workmanship and materials for a period of 1 year.

- a) The warranty period shall start on the date of completion of the Work as determined by the Engineer.
- b) The Contractor shall provide an unconditional warranty on all installed fiber optic cable for a minimum period of 2 years.
- c) The warranty period for the following items of the Work shall be 3 years:
  1. Work under Section 500 (requires Long Term Warranty Contract (LTWC))
  2. DWT Construction (requires manufacturer's warranty)
  3. LED signal modules (requires manufacturer's warranty)
- d) Private sewer pumps including the alarm panel and all other accessories. The Contractor shall provide the City and property owner a copy of the warranty. (requires manufacturer's warranty)
- e) The Contractor shall involve the manufacturer in the installation and startup as needed to secure any extended warranty required.
- f) The warranty period for specific items covered under manufacturers' or suppliers' warranties shall commence on the date they are placed into service at the direction of or as approved by the Engineer in writing.
- g) All warranties, express or implied, from Subcontractors or Suppliers, of any tier, for the work performed and materials furnished shall be assigned, in writing, to the City, and such warranties shall be delivered to the Engineer prior to acceptance of the Contractor's performance of the Contract.
- h) The Contractor shall replace or repair defective Work in a manner satisfactory to the Engineer, after notice to do so from the Engineer, and within the time specified in the notice. If the Contractor fails to make such replacement or repairs within the time specified in the notice, the City may perform the replacement or repairs at the Contractor's expense. If the Contractor fails to reimburse the City for the actual costs, the Contractor's Surety shall be liable for the cost thereof.
- i) Nothing in this warranty is intended to limit any manufacturer's warranty which provides the City with greater warranty rights than set forth in this section or the Contract Documents.
- j) These specifications are not intended to constitute a period of limitations or waiver of any other rights or remedies City may have regarding the Contractor's other obligations under the Contract Documents or federal or state law.
- k) The Contractor shall respond and initiate corrective action within 24 hours of notice of nonconforming Work that poses an imminent threat to person or property.

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

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

## **SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR**

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

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

### **ADD: 7-3.1 Policies and Procedures.**

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

### **ADD: 7-3.2 Types of Insurance.**

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

- a) Commercial General Liability Insurance must be written on the current version of the ISO Occurrence form CG 00 01 07 98 or an equivalent form providing coverage at least as broad. 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).

- b) 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.
- c) All costs of defense must be outside the policy limits. Policy coverage must be in liability limits of not less than the following:

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

**7-3.2.2 Commercial Automobile Liability Insurance.**

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

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

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

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

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

**ADD: 7-3.5 Policy Endorsements.**

**7-3.5.1 Commercial General Liability Insurance**

**7-3.5.1.1 Additional Insured.**

- a) You must provide at your expense policy endorsement written on the current version of the ISO Occurrence form CG 20 10 11 85 or an equivalent form providing coverage at least as broad.

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

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

#### **7-3.5.1.3 Project General Aggregate Limit.**

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

#### **7-3.5.2 Commercial Automobile Liability Insurance.**

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

**ADD: 7-3.6 Deductibles and Self-Insured Retentions.** You are responsible for the payment of all deductibles and self-insured retentions. Disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided.

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

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

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

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

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

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

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

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

**7-4.1.1 Waiver of Subrogation.**

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

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

**7-5.2 Caltrans Encroachment Permit.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

- a) The City has applied for the Caltrans Encroachment Permit unless specified otherwise in the SSP.
- b) The Contractor shall pay for and secure the permit prior to construction regardless of which party has applied for it.
- c) The Contractor shall arrange and pay for inspection as required by Caltrans.
- d) The Contractor shall be solely responsible for permit processing delays that result from incomplete or inaccurate information provided by the Contractor to the City or the Caltrans.
- e) The Caltrans Encroachment permit will be provided at the Pre-construction meeting.



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

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

Based on a preliminary assessment by the City, this contract is subject to WPCP.

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

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

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

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

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

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

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

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

Plates shall conform to the following:

- a) The trench shall be adequately shored to support the bridging and traffic loads.
- b) Plates shall be designed for HS 20-44 truck loading in accordance with Caltrans Bridge Design Specifications Manual.
- c) For the minimum thickness of plates refer to Table 7-10.6(A):

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

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

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

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

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

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

- i) When plates are removed, any damage to the pavement shall be repaired with fine graded asphalt concrete mix or slurry seal satisfactory to the Engineer.

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

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

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

### **PART 2 - CONSTRUCTION MATERIALS**

#### **SECTION 207 – PIPE**

**207-10.2.1 General.** REPLACE the 6<sup>th</sup> paragraph with the following:

Steel plates or sheets used in the manufacture of fabricated steel pipe shall comply with the physical and chemical requirements of ASTM A 570, Grade 33 or ASTM A-283 Grade D with minimum yield point strength of 33,000 psi. Minimum cylinder thickness shall be 0.1875 inches. Steel pipe used for casing shall be Grade C per ASTM A-283 with a thickness of 0.25 inches. All pipe shall be fabricated with integral bells for lap welding in the field.

**207-10.2.2 Design Criteria.** ADD the following:

All steel pipe shall conform to AWWA Manual M-11 thickness calculations and minimum agency requirements, whichever criteria are more stringent. E' soil value listed in the geotechnical report for the project is 1200 psi. Pipe wall thickness shall be based upon the most critical soil and loading condition.

**207-10.2.5 Joints.** ADD the following:

All non-flanged pipe joints shall be field welded. All pipe shall have lap welded slip joints and shall be field welded. Field welds shall be used and shall be of a size equal to the thickness of the bell or cylinder, whichever is greater, and shall be built up in passes of not more than one-eighth inch (1/8") per pass. Field welding shall conform to AWWA C 206 standard for field welding of steel water pipe. Joints for pipeline and fittings 24-inches and smaller shall be repaired with mortar lining and video inspected in accordance with Section 306-1.4.8. Video inspection equipment shall be suitable for potable water pipelines and allow 360 degree inspection of joint repair.

Shop drawings for all pipe and specials shall indicate details of the typical field welded joint and the required lining and coating hold-back.

All closure and makeup joints shall be made with butt straps for field welding in accordance with these drawings and AWWA Manual M-11. Butt strap thickness shall not be less than the thickness of the butting pipes.

**207-10.2 Special Sections.** ADD the following:

The minimum radius of elbows shall be 2.5 times the pipe diameter and the maximum miter angle on each section of the elbow shall not exceed 11 ¼ degrees. Fitting ends shall mate with the type of joint or coupling specified for the pipe. Specials and fittings that cannot be mechanically lined and coated shall be lined and coated by hand-application using the same materials as are used for the pipe and in accordance with the applicable AWWA standards.

**207-10.8 Welding.** ADD the following:

All field welding shall be done by skilled welders, welding operators, and tackers who have had adequate experience in the methods and materials to be used. Welders shall be qualified under the provisions of ANSI/AWS D1.1 not more than 6 months prior to commencing work on the pipeline. Machines and electrodes similar to those used in the work shall be used in qualification tests. The contractor shall furnish all material and bear the expense of qualifying welders.

**207-10.4.2 Cement-Mortar Lining.** ADD the following:

All cement to be used shall be Type II low alkali Portland cement conforming to ASTM C150. Pipe shall have a minimum cement mortar lining thickness of 3/8 inches and shall be in accordance with AWWA C205. All internally coated joints shall be subject to inspection by the Owner or Owner's agent. Any defects shall be repaired by the Contractor to the satisfaction of the Engineer at no additional cost to the Owner.

**207-10.4.7 Cement Mortar Lining and Polyolefin Tape Coating.** Add the following:

The Tape system shall consist of at least three layers consisting of the following:

1. Primer Layer
2. Inner Layer Tape – Corrosion protective tape (20 mils) with black exterior.
- 3A. Outer Layer Tape – Mechanical protective tape (30 mils) with gray exterior.
- 3B. Outer Layer Tape - Mechanical protective tape (30 mils) with white exterior.

The total thickness of the tape coating shall be at least 80 mils. The coated pipe shall be tested and inspected in accordance with AWWA C214. Certified reports of the testing and inspection shall be submitted to the Engineer. The contractor and/or manufacturer shall submit a list of the tape coating materials to be used which indicates manufacturer, product numbers, and manufacturer recommended thickness of material. For each material, technical data sheets shall be submitted which indicate technical and performance information per AWWA C214.

Coating repair in the shop shall be in accordance with AWWA C214 and coating repair in the field shall be in accordance with AWWA C209.

The required hold back for welded pipe ends shall be such that the tape will not be damaged during the welding process. The hold back dimensions shall be shown on the pipe shop drawings. The Contractor and /or manufacturer shall consult the Owner if any anticipated outdoor storage will be required prior to installation so that necessary precautions can be taken.

All field welded joints shall be tape coated and cement mortar coated in accordance with AWWA C209 and AWWA C205. The inspector shall visually inspect that all joints are tape and cement mortar coated. Fittings and specials which cannot be machine coated in accordance with AWWA C214 shall be coated in accordance with AWWA C209. The system shall consist of 3 layers consisting of the following:

1. Primer Layer
2. Inner Layer Tape – Corrosion protective tape (50 mils).
3. Outer Layer Tape – Mechanical protective tape (30 mils).

The total thickness of the tape coating shall be at least 80 mils.

Coating repair for fittings and specials shall be in accordance with the procedure described above for straight line pipe.

Flanged fittings shall be factory coated in accordance with AWWA C214 and AWWA C209. The tape shall be held back two (2) inches from the flange. All flanges shall come with the standard manufacturer's coating and this shall be shown on the shop drawings. The flange and connecting valve or appurtenance shall be wax coated in accordance with AWWA C217. The field applied tape shall overlap the shop applied tape by at least four (4) inches. All tape dimensions, properties, and thickness shall be in accordance with AWWA C217.

All buried appurtenances, flanges, bolts, air vacuum valves piping and blow offs shall also be coated in accordance with AWWA C217.

Mechanical couplings and insulating flanges shall be protected in accordance with AWWA C217. The tape shall overlap the shop applied tape a minimum of four (4) inches. Protection shall be approved by the Engineer prior to backfill.

**ADD: 207-10.5 Shop Drawings.** Manufacturer shall submit to the Engineer for approval prior to manufacture of any pipe and fittings:

1. Detailed drawings
2. Tabulated layout schedule
3. Design calculations for critical pipe wall thickness. (E' value used shall be indicated on drawings)
4. Field joint details

Shop drawings shall be in accordance with the requirements of AWWA C200, C205, and C214.

Data to be furnished by the Contractor shall be in accordance with all applicable provisions of Section 2-5.3, "Shop Drawings", of the standard specifications where not inconsistent with the plans and the express provisions of these specifications.

The drawings accompanying these specifications indicate only the general features of the work and all proportioning and detailing for the pipeline, specials, and connections shall be performed by the Contractor. The Contractor shall prepare and submit for review and approval before starting fabrication a tabulated layout schedule and detailed fabrication drawings. The drawings shall include the configuration, essential dimensions, and materials to be used in fabricating the pipe, pipe specials and fittings, and shall include details of standard pipe joints, and of typical field welded joints showing the lining and coating hold back.

The minimum radius of any fabricated bend shall be at least 2.5 times the nominal pipe diameter. The layout and marking schedule shall include the specific number of each pipe and fitting and the location of each pipe and the direction of each fitting in the completed line. In addition, the layout schedule shall include:

The pipe station and top of pipe elevation at all changes in grade or horizontal alignment: the station and top of pipe elevation to which the bell end of each pipe will be laid; all elements of curves and bends, both in horizontal and vertical alignment. Dimensional drawings of all fittings and appurtenances shall be provided with the layout schedule. The pipe alignment and grade, fittings and appurtenances, as shown on the Contractor's layout schedule shall conform essentially to those shown on the contract plans. The Engineer, at his discretion, may approve minor changes made for economy or convenience in manufacturer or construction. Unless otherwise ordered or permitted by the Engineer, construction shall conform to the approved layout schedule and fabrication drawings.

When approved by the Engineer, changes in alignment or grade may be accomplished by deflections at the joints between lengths of standard pipe, or by use of beveled pipe, or by a combination of the two.

Prior to preparing the schedule and fabrication drawings, the Contractor shall expose the existing main at points of connection and determine their precise locations and alignment relative to the alignment of the new pipe as shown on the drawings. The Contractor shall furnish the Engineer with an electronic file in pdf format of the approved schedule and drawings.

**ADD 207-10.6 Flanges.** Flanges shall conform to ANSI/AWWA C207 (Class E) unless otherwise shown. Flanges shall have flat faces and shall be attached with bolt holes straddling the vertical axis of the pipe unless otherwise shown. Attachment of the flanges to the pipe shall conform to the applicable requirements of ANSI/AWWA C207. The machined faces of all flanges shall be shop coated with rust-preventative compound, Houghton "Rust-Veto 344" or Rustoleum "R-9." The inside of blind flanges shall be cement-mortar coated, the thickness to be the same as the cement-mortar lining for pipe as stated herein.

**207-17.1 General.** ADD the following:

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

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

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

Boxes and covers to be installed in traffic areas shall have a reinforced polymer concrete frame and cover designed for AASHTO H-20 traffic loading. Boxes and covers to be installed in non-traffic areas shall have reinforced polymer concrete reader lids designed for A-10 traffic loading in accordance with ASTM-C857. Traffic areas are defined as any location in which vehicular traffic is evident or highly likely under normal conditions. Non-traffic areas are locations with no vehicular traffic. Covers shall have a logo reading "PUD WATER" as well as the manufacturer's name or logo cast in the polymer concrete surface. A cover and lid selected at random shall be tested. The cover and lid shall support without failure a total vertical load of at least 1,000 pounds, when supported in a horizontal position in the meter box. The load shall be applied to the center of the lid by a cylindrical pin, 1.952" in diameter, supported on a 2-thick rubber pad.

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

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

**ADD 207-26.6 Combination Air and Vacuum Valve Assemblies.** The air and vacuum valves shall be sized as indicated on the plans with single body and double orifice which allows large volumes of air to escape out the large orifice when filling a pipeline and closes when liquid enters the valve. During large orifice closure, the small air release orifice will open to allow small pockets of air to escape automatically and independently of the large orifice.

The large orifice shall also allow large volumes of air to enter during pipeline drainage to break the vacuum. The body inlet must be baffled to protect the lower float from direct forces of rushing air and water to prevent premature valve shut-off. The top large orifice plug or float must be protected in similar manner for the same purpose.

The Buna-N seat must be fastened to the valve cover, without distortion, for drip tight shut-off. The floats shall be heavy stainless steel, hermetically sealed, and designed to withstand 1,000 psi. The top plug or float shall be center guided through hex bushings for positive shut-off.

Air and vacuum valve assemblies shall be installed with an insulating bushing or dielectric union between the corporation stop and the new copper piping.

**207-26.3 Gate Valves.** REPLACE the first paragraph with the following:

Gate valves shall be resilient-seated, non-rising stem and shall conform to the provisions of AWWA C509 as modified herein, except that valves 3” and under shall be all bronze; conforming to ASTM B62.

**207-26.4.1 Class 250B Butterfly Valves.** REPLACE the Section with the following:

Not Used

## SECTION 216 – DETECTABLE WARNING TILES

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

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

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

## PART 3 – CONSTRUCTION METHODS

### SECTION 300 – EARTHWORK

**ADD: 300-4.8.1 Slope Repair.** Slope repair must conform to the requirements in Section 300, “Earthwork”, of the Standard Specifications, these special provisions, and as directed by the Engineer. The provision in Section 300-4.4 of the City Supplement to cut into the embankment 6 feet horizontally shall not apply to slope repair work. Slope repair shall consist of benching into the existing slope as required to remove eroded soils to a firm foundation, backfilling eroded areas, grading or hand shaping slope and compacting eroded areas at the locations shown on the plans. Prior to slope repair work, clear the area in accordance with Section 300-1, “Clearing and Grubbing” of the Standard Specifications and these special provisions. Embankment for slope repair shall be obtained from the bottom of slopes or adjacent areas as directed by the Engineer, local borrow sites, or from an established commercial source in the work vicinity. Embankment material removed from adjacent areas or the bottom of slopes for the purpose of filling existing eroded slopes shall be removed uniformly without leaving pits, holes or low areas. The slope repair areas, and adjacent areas from which embankment material has been obtained, shall be graded to a uniform slope line.

**ADD: 300-4.8.2 Measurement and Payment.** Slope repair areas will be measured prior to starting slope repair work by the square foot (slope measurement). Areas from which material is taken for the slope repair work will not be measured or paid for. The contract price paid per square foot for slope repair shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in slope repair, including embankment materials, and preparation of the areas upon which embankment materials are to be placed, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

### SECTION 302 – ROADWAY SURFACING

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

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

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

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

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



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

- a) saw-cutting existing edges,
- b) removal and disposal of existing pavement,
- c) subgrade preparation including imported backfill material,
- d) form work,
- e) placement, curing, and protection of new pavement, and
- f) placing class "F" asphalt where required.

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

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

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

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

**303-5.10.2 Payment.** To the City Supplement, 2<sup>nd</sup> paragraph, DELETE in its entirety and SUBSTITUTE the following:

Additional concrete sidewalk and curb quantities *beyond the 15'-0"* will be paid for in accordance with the Contract unit price for additional curb and additional sidewalk.

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

Sealant shall be applied from the bottom of the crack up to the surface in a manner which does not result in sealant bridging or pockets of entrapped air. The sealant shall be applied to a slightly overfilled condition and then leveled with a squeegee. The width of sealant remaining on the surface shall not exceed 1.5" on either side of the crack. Any debris blown onto adjacent gutters, sidewalks, parkways, medians, intersections or other areas shall be removed prior to the end of the Working Day.

## **SECTION 306 – UNDERGROUND CONDUIT CONSTRUCTION**

**306-1.2 Pipe Laying.** ADD the following paragraphs:

Each section of pipe shall be carefully lowered into the trench using slings in such a way that the coating and lining are not damaged by flexure or abrasion. The bell or collar of the pipe length previously laid, the spigot of the length being laid shall be thoroughly cleaned and coated with an approved lubricant. The spigot shall then be entered into the bell or collar and forced home. The joint shall be made carefully to avoid unique stressing of or impact damage to, the pipe, and stabbing as a method of installation will not be permitted.

The pipe shall not be dragged along the bottom of the trench but shall be securely supported by the slings until the joint is assembled. Each spigot shall be inserted into the bell or collar the distance shown on the approved fabrication drawings so as to properly seat and to avoid cumulative gain or loss of laying length.

For pipes having steel joint rings, abutting lining and abutting coatings shall be separated by not less than 1/2 inch at each joint, and mortar shall be chipped if necessary to obtain such minimum space. Great care shall be taken not to expose the pipe reinforcement while chipping. Suitable excavations shall be provided in the bedding material for removal of the slings, without damaging the coating, after assembly of the joint. Sling removal holes shall be filled, the pipe length securely blocked on its proper alignment, and the barrel partially backfilled. For pipe having steel joint rings, the space around the joints shall be kept clear of backfill material to permit completion of the joint work. Blocking shall be removed as soon as the pipe length is firmly held by its partial backfill.

Unless otherwise provided, the contractor shall furnish and install all pipes, specials, fittings, closure pieces, valves, supports, bolts, nuts, gaskets, jointing materials, and all other appurtenances as shown and as required to provide a complete and workable installation. Where pipe support details are shown, the supports shall conform thereto and shall be placed as indicated complete and adequate regardless of whether or not supporting blocks and welded joints shall be provided. At all times when the work on installing pipe is not in progress, all openings into the pipe and ends of the pipe in trenches or structures shall be kept tightly closed to prevent entrance of animals and foreign materials. The contractor shall take all necessary precautions to prevent the pipe from floating due to water entering the trench from any source, shall assume full responsibility for any damage due to this cause, and shall at his own expense restore and replace the pipe to its specified condition and grade if it is displaced due to floating. The contractor shall maintain the inside of the pipe free from foreign materials and in a clean and sanitary condition until its acceptance by the owner. Contractor shall make allowance for expansion of pipe due to sunlight and welding during construction by procedures such as leaving pipe unwelded for lengths of about 300 feet and then returning later to make welds.

Field welding shall be in accordance with Section 304-1.9, Welding. A minimum of 10% of the field welds shall be tested with the non-destructive penetration dye test per ASTM E165. If any failures are found, an additional 10% of the welds shall be tested at the Contractor's expense.

**306-1.2.14 Thrust Blocks and Anchor Blocks.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

At least 10 Working Days prior to construction of thrust blocks and anchor blocks for 16" and larger water mains, the Contractor shall excavate via potholing and expose the soil to the depth of the proposed water main at locations approved by the Engineer. The Engineer will confirm the design when shown on the Plans or will provide the design details within 10 Working Days after the Engineer has observed the exposed Site.

If there are conflicts with adjacent utilities that prohibit the installation of the concrete blocks, the Contractor shall immediately notify the Engineer.

**306-1.4.5 Water Pressure Test.** REPLACE the second paragraph with the following:

Test pressure of pipe and fittings at the lowest elevation shall be 150% of the working pressure of the system and no less than 100% of pipe pressure classification at the highest elevation.

REPLACE the last sentence of the last paragraph with the following:

The allowable leakage shall be 15 gallons per inch of diameter per mile of pipeline per 24-hour day.

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

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

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

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

ADD the following:

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

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

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

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

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

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

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

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

## **PART 7 – WATER WORKS**

### **SECTION 700 – WORK INVOLVING THE CITY FORCES.**

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

#### **700-1 CITY FORCE WORK.**

##### **700-1.1 General.**

- a) This subsection covers items of Work that involve coordination with and the services provided by the City Forces. The Contractor shall provide those services that are typically provided by the City Forces, in accordance with the applicable Specifications here if:
  1. additive alternates are awarded, or
  2. those services are shown on the Plans or in the Bridging Documents.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## **ADD: PART 8 – ENVIRONMENTAL WORKS**

### **SECTION 801 – WATER POLLUTION CONTROL**

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

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

ADD the following:

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

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

## **SECTION 807 – RESOURCE DISCOVERIES**

**ADD: 807-1.1 Environmental Document.** The City of San Diego Environmental Analysis Section (EAS) of the Development Services Department has prepared Notice of Exemption for Camino Del Sur Recycled Water Conversion Project Project, as referenced in the Contract Appendix. The Contractor shall comply with all requirements of the Notice of Exemption as set forth in Contract Appendix.

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

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

**Appendix A**  
**Notice of Exemption**

NOTICE OF EXEMPTION

(Check one or both)

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

FROM: CITY OF SAN DIEGO
DEVELOPMENT SERVICES DEPARTMENT
1222 FIRST AVENUE, MS 501
SAN DIEGO, CA 92101

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

PROJECT NO.: WBS # B-10200.02.06 PROJECT TITLE: CAMINO DEL SUR RECYCLED WATER PIPELINE
CONVERSION

PROJECT LOCATION-SPECIFIC: The project is located in the public right-of-way on Camino Del Sur, Torrey Santa Fe Road and
Torrey Meadows Drive.

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

DESCRIPTION OF NATURE AND PURPOSE OF THE PROJECT: The project includes the conversion of 2600 lineal feet of existing 12-inch
pipeline from potable to recycled water and the construction of a new 16 inch potable water pipeline within the right-of-way on Camino Del Sur
between Torrey Meadows Drive and Torrey Santa Fe Road. The project will also install 150 lineal feet of 24-inch recycled water pipeline
between Torrey Santa Fe Road and State Route 56. No impacts to biological or archaeological resources are anticipated as all work would occur
in the improved right-of-way.

NAME OF PUBLIC AGENCY APPROVING PROJECT: City of San Diego
NAME OF PERSON OR AGENCY CARRYING OUT PROJECT: City of San Diego/Engineering and Capital Projects Department
John Stohr, Associate Engineer
600 B Street, Suite 700
San Diego, CA 92101
619-533-6626

- EXEMPT STATUS: (CHECK ONE)
( ) MINISTERIAL (SEC. 21080(b)(1); 15268);
( ) DECLARED EMERGENCY (SEC. 21080(b)(3); 15269(a));
( ) EMERGENCY PROJECT (SEC. 21080(b)(4); 15269 (b)(c))
( ) CATEGORICAL EXEMPTION;
(X) STATUTORY EXEMPTIONS: 15282 (K)- PIPELINES LESS THAN ONE MILE IN LENGTH.

REASONS WHY PROJECT IS EXEMPT: The project is limited to the installation of pipelines and the conversion of those pipelines from potable
water to recycled water within the existing right-of-way. The action involves a minor expansion of use to allow for a 150 foot long pipe
connection. However, it will not result in any impacts to sensitive biological or archaeological resources. Furthermore, the project meets the
criteria in CEQA Section 15282(k) which allows for the construction pipelines less than one mile in length as set forth in Sec. 21080.19 of the
Public Resources Code.

LEAD AGENCY CONTACT PERSON: Jean Cameron TELEPHONE: (619) 446-5379

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

IT IS HEREBY CERTIFIED THAT THE CITY OF SAN DIEGO HAS DETERMINED THE ABOVE ACTIVITY TO BE EXEMPT FROM CEQA

Juan Cameron/Senior Planner

July 13, 2011
DATE

CHECK ONE:
(X) SIGNED BY LEAD AGENCY DATE RECEIVED FOR FILING WITH COUNTY CLERK OR OPR:
( ) SIGNED BY APPLICANT

Revised July 13, 2011mjh

**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

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

NS Req:	Fac #:
Date:	By:

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

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

Specific Use of Water:

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

Estimated Duration of Meter Use:   Check Box if Reclaimed Water

## Company Information

Company Name:

Mailing Address:

City: State: Zip Code: Phone: ( )

\*Business License #: \*Contractor License #:

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

Name and Title of Agent: Phone: ( )

Site Contact Name and Title: Phone: ( )

Pager #: Cell: ( )

Responsible Party Name: Title:

Social Security or Cal ID #: Phone: ( )

Signature: Date:

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

## Fire Hydrant Meter Removal Request

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

Provide current Meter location if different from above:

Signature: Title: Date:

Phone: ( ) Pager: ( )

### For Office Use Only

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

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

FHM App Created: 11/2/00-htp

**"Exhibit B"**

**CONSTRUCTION AND MAINTENANCE RELATED ACTIVITIES WITH NO RETURN TO SEWER:**

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

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

**"Exhibit C"**

Date

Name of Responsible Party

Company Name and address

Account Number: \_\_\_\_\_

Subject: Discontinuation of Fire Hydrant Meter Service

Dear Water Department Customer:

The authorization for use of Fire Hydrant Meter # \_\_\_\_\_ located at (Meter location address) ends in 60 days and will be removed on or after (Date authorization expires). Extension requests for an additional 90 days must be submitted in writing for consideration 30 days prior to the discontinuation date. If you require an extension, please refer to the Water Departments', Department Instruction (D.I.) 55.27 for further information and procedure.

Mail your request for an extension to :

City of San Diego, Water Department

Attn: Meter Services

2797 Caminito Chollas

San Diego, Ca. 92105-5097

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

Sincerely,

City of San Diego Water Department



**Fire Hydrant Meter Relocate/Removal Request**

(EXHIBIT D)

*For Office Use Only*

NS Req:	FHM Fac #:
Date:	By:

Date:

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

**Meter Information**

Billing Account #:	Requested Move Date:
Current Fire Hydrant Meter Location:	
New Meter Location: (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											
<b>G. Payment Due Less Retention</b>						<b>Contractor Signature and Date:</b>					
H. Remaining Authorized Amount											



## **Appendix E**

### **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:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						

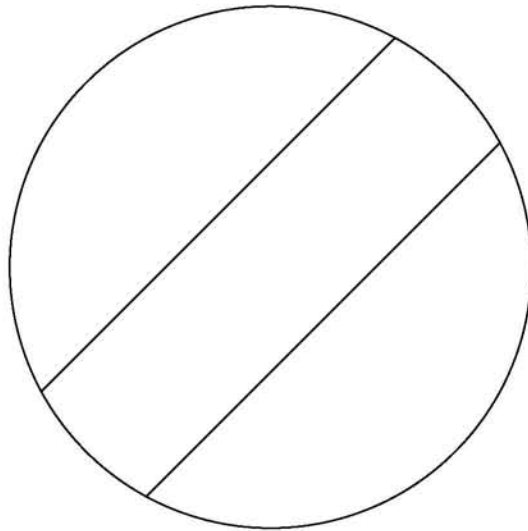
*\*By signing, I certify that all of the statements and conditions for hydrostatic discharge events are correct.*

**Project Name:** \_\_\_\_\_

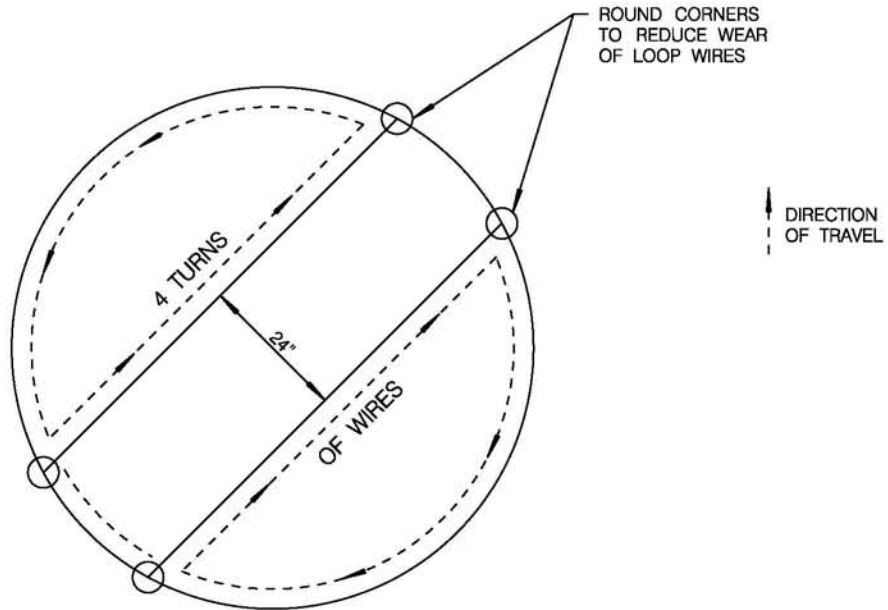
**Work Order No.(s):** \_\_\_\_\_

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

**Appendix F**  
**Performed Loop Construction**



PLAN DRAWING SYMBOL



NOTES:

1. LOOP DIAMETER = 6' TYP
2. DEPTH OF CUT = 3 1/8" MIN

SAWCUT & WINDING DETAIL

MODIFIED TYPE E LIMIT LINE / CROSSWALK DETECTOR

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO - STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE	
ORIGINAL	KA	J. NAGELVOORT	01/12		<i>J. Nagelvoort</i>	1/31/2012
				<b>TYPE E MODIFIED LOOP</b>	COORDINATOR R.C.E. 65271 DATE	
					DRAWING NUMBER	<b>SDE-104</b>

# City of San Diego

## ADDENDUM "A"



## FOR

## CAMINO DEL SUR RECYCLED WATER CONVERSION PROJECT

BID NO.:	<u>K-13-5610-DBB-3</u>
SAP NO. (WBS/IO/CC):	<u>B-10200</u>
CLIENT DEPARTMENT:	<u>2013</u>
COUNCIL DISTRICT:	<u>1</u>
PROJECT TYPE:	<u>KA</u>

For which proposals will be received at the Public Works Contracting Group, 1200 Third Avenue, Suite 200, San Diego, California, until **2:00 PM** on **November 8<sup>th</sup>, 2012**.

### A. CHANGES TO CONTRACT DOCUMENTS

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

### B. BIDDER'S QUESTIONS

Q1. Part 1 – General Provisions, page 36 of 91 of specifications, “the Normal Working Hours shall be 8:30 AM to 3:00 PM”, differs from that on the plan sheets T-1 thru T-14 which states “Work Hours: 9:00 AM to 4:00 PM”. Please advise as to which standard will be used during the construction of this project.

A1. Work hours shall be 9 AM to 4 PM.

### C. VOLUME 1:

1. To the INVITATION TO BIDS, item 6, Contractor’s License Classification, page 13, **DELETE** in its entirety and **SUBSTITUTE** with the following:

**6. CONTRACTOR'S LICENSE CLASSIFICATION:** In accordance with the provisions of California Law, the Contractor shall possess valid appropriate license(s) at the time that the Bid is submitted. Failure to

possess the specified license(s) shall render the Bid as **non-responsive** and shall act as a bar to award of the Contract to any Bidder not possessing required license(s) at the time of Bid.

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

- Class A

Tony Heinrichs, Director  
Public Works Department

Dated: *October 26, 2012*  
San Diego, California

TH/bd/ca/lji/lj

# City of San Diego

## ADDENDUM "B"



FOR

## CAMINO DEL SUR RECYCLED WATER CONVERSION PROJECT

BID NO.: K-13-5610-DBB-3  
SAP NO. (WBS/IO/CC): B-10200  
CLIENT DEPARTMENT: 2013  
COUNCIL DISTRICT: 1  
PROJECT TYPE: KA

Engineer of Work Certification:

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



Charles R. St. John  
1) Registered Engineer

11/7/12  
Date

Seal:

Hosni Ay  
2) For City Engineer

11/7/12  
Date

### 1. CHANGES TO THE BID SUBMITTAL DUE DATE AND TIME

The bid opening date for this project has been extended to **2:00 PM on November 20, 2012.**

Proposals will be received at the Public Works Contracting Group, 1010 Second Avenue, Suite 1400, San Diego, California, 92101.

## 2. 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.

## 3. BIDDER'S QUESTIONS

- Q1. The project has a bid item for "Contractor Furnished Materials for the City Forces Work", which includes 16" butterfly valves. Will the Contractor also be required to furnish all the bypass material for these valves?
- A1. Yes. See revisions to Drawing 36608-9-D in Section 7 below.
- Q2. Bid item 36 shows 9 each of 16" Butterfly Valves but the drawing shows 11 each; 3-ea will be by Contractor and 8-ea by City forces?
- A2. See revised Bid Schedule included in this Addendum. Item 42 of the Bid Schedule includes all Contractor Furnished Items for City Force Work.
- Q3. Pay Item 41 shows 12,000-SF of Hydro Seed and referring us to standard specs 308-8. Please provide us the necessary specific seed mix the engineer required to this hydro seeding.
- A3. The seed mix is provided on Drawing 36608-13-D.
- Q4. Could you provide a copy of the Geotechnical report online for the Contractor to review?
- A4. The Geotech Report can be accessed on our FTP site at the following location:  
<ftp://ftp.sannet.gov/OUT/ECP/2-7%20SUBSURFACE%20DATA/>
- Q5. Could you please provide an exact location of the Slope Repair plan construction on drawing 36608-6-D complete with another cross street other than the SR-56?
- A5. It is located west along the Bike path and south of the Southeast abutment of the SR-56 Bridge crossing over McGonigle Canyon. However, the only access is from the North side of SR-56. Proceeding north on Camino Del Sur from SR-56 take a left at Torrey Meadows Drive; just shy of the Cul-de Sac go right on Sunshine Drive. Access road is down and to the left.
- Q6. Sheet C-4: 24" CML RC pipe is listed as the pipe. The CML RC pipe stands for what type of pipe?
- A6. CML refers to "cement mortar lined," RC refers to "reclaimed/ recycled water." Per the data table on Drawing 36608-5-D for the 24" steel recycled water pipe, the pipe is listed as CML&TW in the "REMARKS" column. Per the abbreviations on Drawing 36608-1-D, CML&TW stands for "Cement Mortar Lined and Tape Wrapped". Pipe, mortar, and tape wrap system shall be as specified in Section 207 of the SSPWC, the WHITEBOOK, and the Special



Provisions. Note that 1” mortar “rock shield” shall be applied over the tape wrap system.

- Q7. Sheet C-1 and C-2: On the 26” Steel Casing what is the specification of casing material, what ASTM, etc.? (not listed in the specifications)
- A7. Casing pipe is specified in Section 207-10.2.1 of the Special Provisions.
- Q8. Sheet C-1 and C-2: On the 26” Steel Casing how is the casing welded, exterior only with single pass weld?
- A8. Field welded joints shall be per the City of San Diego Standard Detail SDW-108. Field welds for casing and recycled water pipes shall be outside weld. Welds shall be in accordance with AWS D1.1.
- Q9. Can the casing be larger than the 26”?
- A9. No. The project was designed using a 26” diameter casing pipe.
- Q10. Is the City doing the tie-ins of the pipe, and only the City?
- A10. Refer to the Plans for “Work by City Forces” and “By Contractor” references.
- Q11. The operational check for testing the mixing of Recycled and Potable, when is that performed and by whom?
- A11. Refer to Drawing 36608-1-D, “Order of Work,” Item 4. The City will perform the cross-connection test prior to Items 5 & 6. The Contractor shall coordinate with the City for scheduling the test.
- Q12. Are any Pipe Restraints required inside the casing besides the Stop Restraints shown?
- A12. No.
- Q13. Sheet C-4: Bike Path, we are going to be excavating next to the Bike Path, with the tracks of the machine sitting on the Bike Path, it would be a safety issue to keep the path open. How does the City propose we keep the bike path traffic safe and open while working on the path?
- A13. The bike path shall remain operational during construction. The Contractor shall determine how this will be accomplished.
- Q14. Sheet C-2: On City Work item #2, the 16” Butterfly Valves, is the City going to install the By-Pass piping and the Contractor only supply the materials?
- A14. There are no valves on Drawing 36608-3-D. The question appears related to Drawing 36608-4-D in which case, Work Item #2 is installed by the Contractor including bypass valves and piping. Work Item #1 is installed by City Forces with the Contractor supplied materials.

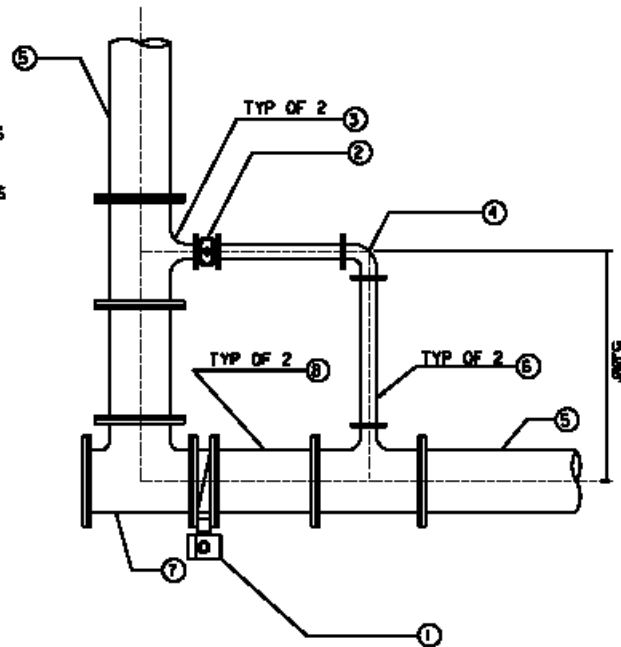
Q15. Bid item #8 is to obtain the Cal-Trans permit which is an allowance item since it is an unknown. On page 47 section 7-5.2c says Contractor to pay for Caltrans inspection. In past City jobs, the allowance item for the Caltrans permit included the inspection cost. When we use the allowance item to obtain the Caltrans permit, does that also include the Caltrans inspection cost too since the inspection cost is an unknown also?

A15. Yes, the inspection cost is part of the permit and reimbursement allowance bid item.

#### 4. CLARIFICATIONS

1. Contractor shall provide all flange adapters, gaskets, hardware, etc. for City Force installed bypasses as necessary to complete the assemblies as shown on the Contract Drawings. Detail 5 on Drawing 36608-13-D shows a Tee situation bypass. Note that the bypass at Station 10+00 is for a cross situation bypass and will require an additional 16"X4" cross and a 4" gate valve to complete the bypass.
2. The Contractor installed bypass for the 16-inch butterfly valves at Station 10+62.02 and Station 35+48.13 only require a one-way bypass per the attached detail. The Contractor installed by-pass at station 28+16.97 shall be per Detail 5 on Drawing 36608-13-D.

- ① 16" BUTTERFLY VALVE (FLG X FLG)
- ② 4" GATE VALVE (FLG X FLG)
- ③ 16" X 4" TEE (FLG X FLG)
- ④ 4" D190° BEND (FLG X FLG)
- ⑤ 16" C905 PVC PIPE W/ FLANGE ADAPTER
- ⑥ 4" C900 PVC SPOOL W/FLANGE ADAPTERS
- ⑦ 16" DI TEE (FLG)
- ⑧ 16" C905 PVC SPOOL W/FLANGE ADAPTERS



⑤ CONTRACTOR INSTALLED  
 BUTTERFLY VALVE BYPASS  
 STA 10+62.02 AND  
 35+48.13 (SIMILAR)

N.T.S.

**5. VOLUME 1**

1. To Contract Document, to all references of 1200 Third Avenue, Suite 200, MS 56P, San Diego, CA 92101, **DELETE** in their entirety and **SUBSTITUTE** with the following:

1010 Second Avenue, Suite 1400, MS 614C, San Diego, CA 92101

2. To the SSP, Part 2 – CONSTRUCTION MATERIALS, SECTION 207 – PIPE, Subsection 207-10.8, Welding, **REVISE** subsection number to read “**207-10.2.8.**”

**6. VOLUME 2**

1. To Bidding Documents, PROPOSAL (BID), pages 10 through 13, **DELETE** in their entirety and **SUBSTITUTE** with pages 6 of 10 through 10 of 10 of this Addendum.

**7. DRAWINGS**

1. To Drawing 36608-9-D, Work by City Forces: **ADD** the following items to the Contractor Furnished Materials for City Force Work:

SHT	4" GATE VALVE	4" PIPE	16"x 4" Cross	16"x 4" Tee	4" 90 Deg. Ell
C-1	4	40'	4		4
C-3	3	40'	3		4
C-4	2	20'		2	1

Tony Heinrichs, Director  
Public Works Department

Dated: *November 7, 2012*  
San Diego, California

TH/bd/ca/lji

**BIDDING DOCUMENTS**

**PROPOSAL (BID)**

The Bidder agrees to the construction of **Camino Del Sur Recycled Water Conversion Project**, 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	Payment Reference	NAICS	Description	Unit Price	Extension
<b>BASE BID</b>							
1	1	LS	2-4.1	237110	Bonds (Payment and Performance)	<del> </del>	\$
2	1	AL	2-13.1	237110	Partnering	<del> </del>	\$5,000.00
3	1	LS	3-3.2.2	237110	Certified Payroll	<del> </del>	\$
4	1	LS	4-1.3.4	237110	Special Inspection for Welded Steel Pipe	<del> </del>	\$
5	1	LS	7-9.1.1	238990	Video Recording of Pre-existing Conditions	<del> </del>	\$
6	1	LS	7-10.2.7	237310	Traffic Control	<del> </del>	\$
7	1	LS	7-10.2.7	237310	Flashing Arrow Boards	<del> </del>	\$
8	1	AL	7-5.3	237110	Caltrans Encroachment Permit - Type I	<del> </del>	\$5,000.00
9	1	LS	9-3.1	237110	Installation of 4-Wire Above Grade Test Station	<del> </del>	\$
10	1	LS	9-3.4.1	237110	Mobilization	<del> </del>	\$
11	1	AL	9-3.5		Field Orders - Type II	<del> </del>	\$50,000.00
12	260	CY	300-1.4	237310	Additional Pavement Removal & Disposal	\$	\$
13	4,000	SF	300-4.8.2	237310	Slope Repair	\$	\$

**BIDDING DOCUMENTS**

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>Payment Reference</b>	<b>NAICS</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>
14	24	EA	302-1.12	237310	Traffic Detector Loop Replacement	\$	\$
15	129,309	SF	302-4.5	237310	Rubberized Emulsion-Aggregate Slurry (REAS) Type II & Striping	\$	\$
16	1	LS	302-4.5.1	237310	Bond for Slurry Seal	<del>\$</del>	\$
17	1,000	SF	302-5.1.2	237310	Damaged AC Pavement Replacement	\$	\$
18	4	EA	303-1.11	237110	Cutoff Wall	\$	\$
19	67	LF	303-1.11	237110	Drainage Ditch Type A	\$	\$
20	10	CY	303-1.11	237310	Concrete Pipe Encasement	\$	\$
21	180	LF	303-5.9	237310	Additional Curb and Gutter	\$	\$
22	140	SF	303-5.9	237310	Additional Sidewalk Removal and Replacement	\$	\$
23	6	EA	303-5.10.2	237310	Curb Ramp Type A w/ Stainless Steel Detectable Warning Tiles	\$	\$
24	2	EA	303-5.10.2	237310	Curb Ramp Type B w/ Stainless Steel Detectable Warning Tiles	\$	\$
25	2	EA	303-5.10.2	237310	3'x10' Stainless Steel Detectable Warning Tiles	\$	\$
26	1	LS	306-1.1.6	237110	Trench Shoring	<del>\$</del>	\$
27	100	CY	306-1.2.1.1	237110	Additional Bedding	\$	\$
28	50	TON	306-1.6	237110	Imported Backfill	\$	\$
29	87	TON	306-1.5.1	237310	Temporary Resurfacing	\$	\$
30	1	LS	306-1.6	237110	Water Main Thrust Blocks and Anchor Blocks	<del>\$</del>	\$
31	60	LF	306-1.6	237110	4-inch Class 235 PVC Water Main	\$	\$

**BIDDING DOCUMENTS**

<b>Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>Payment Reference</b>	<b>NAICS</b>	<b>Description</b>	<b>Unit Price</b>	<b>Extension</b>
32	2,626	LF	306-1.6	237110	16-inch Class 235 PVC Water Main	\$	\$
33	1,125	LF	306-1.6	237110	26-inch Steel Casing Pipe with Casing Spacers and End Seals	\$	\$
34	104	LF	306-1.6	237110	24-inch CML & TW Recycled Water Pipeline	\$	\$
35	1	EA	306-1.6	237110	8-Inch Backflow Preventer Removal	\$	\$
36	1	EA	306-1.6	237110	12-Inch Backflow Preventer Removal	\$	\$
37	5	EA	306-1.6	237110	4-Inch Gate Valve	\$	\$
38	3	EA	306-1.6	237110	16-Inch Butterfly Valve Class 150B	\$	\$
39	2	EA	306-18	237110	4-Inch Blowoff Valve Assembly	\$	\$
40	1	EA	306-19	237110	2-Inch Air & Vacuum Valve	\$	\$
41	12,000	SF	308-8	561730	Hydro Seed	\$	\$
42	1	LS	700-1.2.1.3	237110	Contractor Furnished Materials for the City Forces Work	<del>\$</del>	\$
43	50	SF	700-1.3.1.5	237110	Pavement Restoration for City Forces Final Connection	\$	\$
44	2	EA	700-1.3.2.10	237110	24-Inch Connection to Existing System by Contractor	\$	\$
45	1	LS	800-2.15	237990	Construction Fencing and Access Route	<del>\$</del>	\$
46	1	LS	800-2.15	238390	Clearing & Grubbing	<del>\$</del>	\$
47	1	LS	800-2.15	561730	Revegetation & Erosion Control	<del>\$</del>	\$
48	1	LS	801-9.4	541330	Water Pollution Control Program Development	<del>\$</del>	\$
49	1	LS	801-9.4	237990	Water Pollution Control Program Implementation	<del>\$</del>	\$
<b>ESTIMATED TOTAL BASE BID:</b>						<b>\$</b>	

**BIDDING DOCUMENTS**

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TOTAL BID PRICE FOR BID (Items 1 through 49 inclusive) amount written in words:

---

The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on this Bid form.

List the Addenda received and being acknowledged: \_\_\_\_\_

---

If an addendum or addenda has been issued by the City and not noted as being received by the Bidder, the Bid shall be rejected as being **non-responsive**.

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

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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: \_\_\_\_\_

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## BIDDING DOCUMENTS

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### NOTES:

- A. The City shall determine the low Bid based on the Base Bid alone.
- B. 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.
- C. 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.
- D. 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.
- E. 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.
- F. 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.
- G. 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

## ADDENDUM "C"

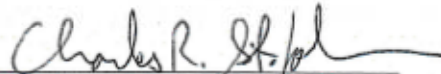




### FOR

## CAMINO DEL SUR RECYCLED WATER CONVERSION PROJECT

BID NO.:	<u>K-13-5610-DBB-3</u>
SAP NO. (WBS/IO/CC):	<u>B-10200</u>
CLIENT DEPARTMENT:	<u>2013</u>
COUNCIL DISTRICT:	<u>1</u>
PROJECT TYPE:	<u>KA</u>

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

	<u>11-15-12</u>	Seal: 
1) Registered Engineer	Date	
	<u>11-16-12</u>	
2) For City Engineer	Date	

### 1. CHANGES TO THE BID SUBMITTAL DUE DATE AND TIME

The bid opening date for this project has been extended to **2:00 PM on November 27, 2012.**

Proposals will be received at the Public Works Contracting Group, 1010 Second Avenue, Suite 1400, MS 614C, San Diego, California, 92101.

**2. 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.

**3. ADDENDUM B**

- 1. To Drawings, Item 7, page 5 of 10, **DELETE** in its entirety and **SUBSTITUTE** with the following:

SHT	4" GATE VALVE	4" PIPE	16"x 4" Cross	16"x 4" Tee	12"x4" Tee	4" 90 Deg. Ell
C-1	4	40'	4			4
C-3	3	40'	3			4
C-4	2	20'		1	1	1

**4. BIDDER'S QUESTIONS**

- Q1. I have a question on STA 35+48.13. There is a new 16"x12"Flg Cross. Now the new line is 16" and tie in lines are 16" and 12" so on the new 1-way bypass should 1 of the new bypass tees be a 12"x4" Flg tee and on 16" tie in line we will need a 16"x12" Flg Reducer because the lateral on the cross is 12". If you can help me answer this question it will help.
- A1. The Contractor will need to provide 1-16" X 4" Tee and 1- 12" X 4" Tee. The tie-in lines are 12" on either side of the new 16" X 12" cross as we are cutting into the existing 12" pipe so a reducer is not necessary.

Tony Heinrichs, Director  
Public Works Department

Dated: *November 16, 2012*  
San Diego, California

TH/bd/ca/lji

# 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: Claudia Abarca - Contract Specialist, email: CAbarca@sandiego.gov  
Phone No. (619) 236-6669, Fax (619) 236-5904  
J Stohr/BD/LJI

## CONTRACT DOCUMENTS



## FOR

## CAMINO DEL SUR RECYCLED WATER CONVERSION PROJECT

VOLUME 2 OF 2

BID NO.:	<u>K-13-5610-DBB-3</u>
SAP NO. (WBS/IO/CC):	<u>B-10200</u>
CLIENT DEPARTMENT:	<u>2000/2013</u>
COUNCIL DISTRICT:	<u>1</u>
PROJECT TYPE:	<u>HC</u>

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

- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- PREVAILING WAGE RATES: **STATE**
- THIS IS A **PROP 50 GRANT FUNDED CONTRACT** THROUGH THE STATE OF CALIFORNIA.

**THIS BIDDING DOCUMENT TO BE SUBMITTED IN ITS ENTIRETY  
REFER TO INVITATION TO BIDS FOR TIME, DATE, AND LOCATION**

# TABLE OF CONTENTS

## Volume 2 - Bidding Documents

The following forms must be completed in their entirety and submitted with the Bid. Include the form(s) even if the information does not apply. Where the information does not apply write in N/A. Failure to include any of the forms may cause the Bid to be deemed **non-responsive**. If you are uncertain or have any questions about any required information, contact the City no later than 14 days prior to Bid due date.

<u>DESCRIPTION</u>	<u>PAGE NUMBER</u>
1. Bid/Proposal.....	3 - 5
2. Bid Bond.....	6
3. Non-Collusion Affidavit to be executed by Bidder and Submitted with Bid under 23 USC 112 and PCC 7106.....	7
4. Contractors Certification of Pending Actions.....	8
5. Equal Benefits Ordinance Certification of Compliance.....	9
6. Proposal (Bid).....	10 - 13
7. Form AA35 - List of Subcontractors.....	14
8. Form AA40 - Named Equipment/Material Supplier List.....	15

**BIDDING DOCUMENTS**

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**PROPOSAL**

**Bidder's General Information**

To the City of San Diego:

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

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

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

*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. \_\_\_\_\_

**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):  
\_\_\_\_\_  
\_\_\_\_\_

**BIDDING DOCUMENTS**

(3) Signature (Note: Signature must be made by a general partner)

\_\_\_\_\_  
Full Name and Character of partner  
\_\_\_\_\_  
\_\_\_\_\_

(4) Place of Business (Street & Number) \_\_\_\_\_

(5) City and State \_\_\_\_\_ Zip Code \_\_\_\_\_

(6) Telephone No. \_\_\_\_\_ Facsimile No. \_\_\_\_\_

**IF A CORPORATION, SIGN HERE:**

(1) Name under which business is conducted 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 SANTEE, CA. Zip Code 92071

(6) Telephone No. 619-448-4560 Facsimile No. 619-448-3341

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

In accordance with the "INVITATION TO BIDS", the bidder holds a California State Contractor's license for the following classification(s) to perform the work described in these specifications:

LICENSE CLASSIFICATION A, 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): 


E-Mail Address: acameron@tcincsd.com

**BIDDING DOCUMENTS**

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**THIS PROPOSAL MUST BE NOTARIZED BELOW:**

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

Signature  Title SECRETARY  
AUSTIN CAMERON

SUBSCRIBED AND SWORN TO BEFORE ME, THIS \_\_\_\_\_ DAY OF \_\_\_\_\_.

Notary Public in and for the County of \_\_\_\_\_, State of \_\_\_\_\_

(NOTARIAL SEAL)

State of California County of  
San Diego  
Subscribed and sworn to (or affirmed)  
before me on this 2<sup>nd</sup> day of November 2012 by  
Austin Cameron  
proved to me on the basis of satisfactory evidence  
to be the person(s) who appeared before me.  
Signature Sandra Weeks  
(Seal)



**BIDDING DOCUMENTS**

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**BID BOND**

KNOW ALL MEN BY THESE PRESENTS,

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

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


Camino Del Sur Recycled Water Conversion Project; Bid No K-13-5610-DBB-3


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

SIGNED AND SEALED, this 1st day of November, 2012

TC Construction Company, Inc. (SEAL)  
(Principal)

Liberty Mutual Insurance Company (SEAL)  
(Surety)

By:   
(Signature)

By:   
(Signature) Tara Bacon, Attorney-in-Fact

*AUSTIN CAMERON, SECRETARY*

(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)



**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

CIVIL CODE § 1189

State of California

County of San Diego }

On November 2, 2012 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 **RIGHT THUMBPRINT OF SIGNER**  Individual **RIGHT THUMBPRINT OF SIGNER**  
Top of thumb here Top of thumb here

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

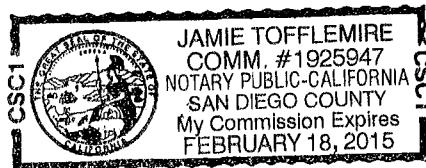
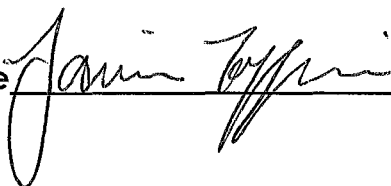
State of California  
County of San Diego

On November 1, 2012 before me, Jamie Tofflemire, 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



(Seal)

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

5216798

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. \_\_\_\_\_

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, **DALE G. HARSHAW, BRADLEY R. ORR, GEOFFREY SHELTON, TARA BACON,** .....

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

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 2nd day of March, 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 2nd day of March, 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 above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which 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 1st day of November, 20 12.



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.

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.

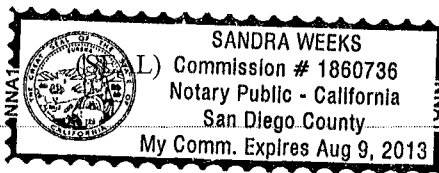
AUSTIN CAMERON, being first duly sworn, deposes and says that he or she is SECRETARY of the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and 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
Title: SECRETARY

State of California County of San Diego
Subscribed and sworn to (or affirmed) before me on this 2nd day of November, 2012 by Austin Cameron
Subscribed and sworn to before me this \_\_\_ day of \_\_\_, 20\_\_
proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Signature Sandra Weeks
(Seal)

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 ten 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:

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Contractor Name: TC CONSTRUCTION CO. INC.

Certified By AUSTIN CAMERON Title SECRETARY

*Austin Cameron*  
Signature

Date 11.27-12

**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. 4484560 x117</u>
<u>SANTEE CA. 92071</u>	Contact Email: <u>acameron@tcincsd.com</u>

**CONTRACT INFORMATION**

Contract Title: <u>CAMINO DEL SUR RECYCLED WATER CONV. PROJECT</u>	Start Date: <u>TBD</u>
Contract Number (if no number, state location): <u>K-13-5610-DBB-3</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.

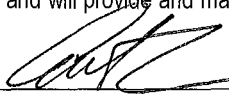
I affirm compliance with the EBO because my firm (*contractor must select one reason*):

- 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, SEC.</u>		<u>11.27-12</u>
Name/Title of Signatory	Signature	

**FOR OFFICIAL CITY USE ONLY**

Receipt Date:	EBO Analyst:	<input type="checkbox"/> Approved	<input type="checkbox"/> Not Approved – Reason:
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rev 02/15/2011

**BIDDING DOCUMENTS**

**PROPOSAL (BID)**

The Bidder agrees to the construction of **Camino Del Sur Recycled Water Conversion Project**, 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	Payment Reference	NAICS	Description	Unit Price	Extension
<b>BASE BID</b>							
1	1	LS	2-4.1	237110	Bonds (Payment and Performance)	<del> </del>	\$9,400.-
2	1	AL	2-13.1	237110	Partnering	<del> </del>	\$5,000.00
3	1	LS	3-3.2.2	237110	Certified Payroll	<del> </del>	\$ 50.-
4	1	LS	4-1.3.4	237110	Special Inspection for Welded Steel Pipe	<del> </del>	\$12,000.-
5	1	LS	7-9.1.1	238990	Video Recording of Pre-existing Conditions	<del> </del>	\$ 1,500.-
6	1	LS	7-10.2.7	237310	Traffic Control	<del> </del>	\$13,000.-
7	1	LS	7-10.2.7	237310	Flashing Arrow Boards	<del> </del>	\$ 1,500.-
8	1	AL	7-5.3	237110	Caltrans Encroachment Permit - Type I	<del> </del>	\$5,000.00
9	1	LS	9-3.1	237110	Installation of 4-Wire Above Grade Test Station	<del> </del>	\$ 1,500.-
10	1	LS	9-3.4.1	237110	Mobilization	<del> </del>	\$25,000-
11	1	AL	9-3.5		Field Orders - Type II	<del> </del>	\$50,000.00
12	260	CY	300-1.4	237310	Additional Pavement Removal & Disposal	\$ 72.-	\$ 18,720.-
13	4,000	SF	300-4.8.2	237310	Slope Repair	\$ 10-	\$ 40,000-

**BIDDING DOCUMENTS**

Item	Quantity	Unit	Payment Reference	NAICS	Description	Unit Price	Extension
14	24	EA	302-1.12	237310	Traffic Detector Loop Replacement	\$356.-	\$8,544.-
15	129,309	SF	302-4.5	237310	Rubberized Emulsion-Aggregate Slurry (REAS) Type II & Striping	\$ 0 <sup>70</sup>	\$ 90,516 <sup>30</sup>
16	1	LS	302-4.5.1	237310	Bond for Slurry Seal	<del>          </del>	\$ 50.-
17	1,000	SF	302-5.1.2	237310	Damaged AC Pavement Replacement	\$ 6.-	\$6,000.-
18	4	EA	303-1.11	237110	Cutoff Wall	\$2,800.-	\$11,200.-
19	67	LF	303-1.11	237110	Drainage Ditch Type A	\$ 15.-	\$1,005.-
20	10	CY	303-1.11	237310	Concrete Pipe Encasement	\$287.-	\$2,870.-
21	180	LF	303-5.9	237310	Additional Curb and Gutter	\$ 35.-	\$6,300.-
22	140	SF	303-5.9	237310	Additional Sidewalk Removal and Replacement	\$ 7.-	\$ 980.-
23	6	EA	303-5.10.2	237310	Curb Ramp Type A w/ Stainless Steel Detectable Warning Tiles	\$3,500.-	\$21,000.-
24	2	EA	303-5.10.2	237310	Curb Ramp Type B w/ Stainless Steel Detectable Warning Tiles	\$3,500.-	\$7,000.-
25	2	EA	303-5.10.2	237310	3'x10' Stainless Steel Detectable Warning Tiles	\$1,700.-	\$3,400.-
26	1	LS	306-1.1.6	237110	Trench Shoring	<del>          </del>	\$2,500.-
27	100	CY	306-1.2.1.1	237110	Additional Bedding	\$ 6.-	\$ 600.-
28	50	TON	306-1.6	237110	Imported Backfill	\$ 40.-	\$2,000.-
29	87	TON	306-1.5.1	237310	Temporary Resurfacing	\$ 115.-	\$10,005.-
30	1	LS	306-1.6	237110	Water Main Thrust Blocks and Anchor Blocks	<del>          </del>	\$8,000.-
31	60	LF	306-1.6	237110	4-inch Class 235 PVC Water Main	\$ 50.-	\$3,000.-



**BIDDING DOCUMENTS**

Item	Quantity	Unit	Payment Reference	NAICS	Description	Unit Price	Extension
32	2,626	LF	306-1.6	237110	16-inch Class 235 PVC Water Main	\$ 90 <sup>-</sup>	\$236,340 <sup>-</sup>
33	1,125	LF	306-1.6	237110	26-inch Steel Casing Pipe with Casing Spacers and End Seals	\$ 270 <sup>-</sup>	\$303,750 <sup>-</sup>
34	104	LF	306-1.6	237110	24-inch CML & TW Recycled Water Pipeline <del>(AC)</del>	<del>\$ 1,500<sup>-</sup></del> \$ 550 <sup>-</sup>	<del>\$ 1,500<sup>-</sup></del> \$ 57,200 <sup>-</sup> <del>(AC)</del>
35	1	EA	306-1.6	237110	8-Inch Backflow Preventer Removal	\$ 1,500 <sup>-</sup>	\$ 1,500 <sup>-</sup>
36	1	EA	306-1.6	237110	12-Inch Backflow Preventer Removal	\$ 1,800 <sup>-</sup>	\$ 1,800 <sup>-</sup>
37	5	EA	306-1.6	237110	4-Inch Gate Valve	\$ 900 <sup>-</sup>	\$ 4,500 <sup>-</sup>
38	3	EA	306-1.6	237110	16-Inch Butterfly Valve Class 150B	\$ 4,000 <sup>-</sup>	\$ 12,000 <sup>-</sup>
39	2	EA	306-18	237110	4-Inch Blowoff Valve Assembly	\$ 5,500 <sup>-</sup>	\$ 11,000 <sup>-</sup>
40	1	EA	306-19	237110	2-Inch Air & Vacuum Valve	\$ 7,500 <sup>-</sup>	\$ 7,500 <sup>-</sup>
41	12,000	SF	308-8	561730	Hydro Seed	\$ .20	\$ 2,400 <sup>-</sup>
42	1	LS	700-1.2.1.3	237110	Contractor Furnished Materials for the City Forces Work	<del>XXXXXX</del>	\$ 12,000 <sup>-</sup>
43	50	SF	700-1.3.1.5	237110	Pavement Restoration for City Forces Final Connection	\$ 28 <sup>-</sup>	\$ 1,400 <sup>-</sup>
44	2	EA	700-1.3.2.10	237110	24-Inch Connection to Existing System by Contractor	\$ 10,000 <sup>-</sup>	\$ 20,000 <sup>-</sup>
45	1	LS	800-2.15	237990	Construction Fencing and Access Route	<del>XXXXXX</del>	\$ 7,000 <sup>-</sup>
46	1	LS	800-2.15	238390	Clearing & Grubbing	<del>XXXXXX</del>	\$ 3,500 <sup>-</sup>
47	1	LS	800-2.15	561730	Revegetation & Erosion Control	<del>XXXXXX</del>	\$ 3,500 <sup>-</sup>
48	1	LS	801-9.4	541330	Water Pollution Control Program Development	<del>XXXXXX</del>	\$ 2,500 <sup>-</sup>
49	1	LS	801-9.4	237990	Water Pollution Control Program Implementation	<del>XXXXXX</del>	\$ 9,000 <sup>-</sup>
<b>ESTIMATED TOTAL BASE BID:</b>						\$ 1,094,530 <sup>30</sup>	

BIDDING DOCUMENTS

TOTAL BID PRICE FOR BID (Items 1 through 49 inclusive) amount written in words:

ONE MILLION NINETY FOUR THOUSAND FIVE HUNDRED THIRTY DOLLARS AND THIRTY CENTS.

The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on this Bid form.

List the Addenda received and being acknowledged: A, B, C

If an addendum or addenda has been issued by the City and not noted as being received by the Bidder, the Bid shall be rejected as being non-responsive.

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

TERRY CAMERON, PRESIDENT

STEVE COKER, VICE PRESIDENT

AUSTIN CAMERON, SEC.-TREAS.

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.

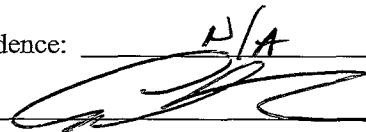
Title: SECRETARY

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 alone.
- B. 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.
- C. 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.
- D. 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.
- E. 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.
- F. 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.
- G. Bids shall not contain any recapitulation of the Work. Conditional Bids will be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.

**BIDDING DOCUMENTS**

**LIST OF SUBCONTRACTORS**

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB <sup>①</sup>	WHERE CERTIFIED <sup>②</sup>	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>AMERICAN ASPHALT SOUTH</u> Address: <u>14436 SANTA ANA AVE</u> City: <u>FONTANA</u> State: <u>CA</u> Zip: <u>92337</u> Phone: <u>909 927-8276</u>	<u>CONSTRUCTOR</u>	<u>SLURRY SEAL</u>	<u>70,473<sup>41</sup></u>			
Name: <u>STATEWIDE STRIPES</u> Address: <u>PO BOX 600710</u> City: <u>SAN DIEGO</u> State: <u>CA</u> Zip: <u>92160</u> Phone: <u>858-560-6887</u>	<u>CONSTRUCTOR</u>	<u>STRIPING</u>	<u>\$11,583.-</u>			
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

138,001.81  
= .1260

- ① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):
- |   |        |  |         |
|---|--------|--|---------|
| Certified Minority Business Enterprise        | MBE    | Certified Woman Business Enterprise            | WBE     |
| Certified Disadvantaged Business Enterprise   | DBE    | Certified Disabled Veteran Business Enterprise | DVBE    |
| Other Business Enterprise                     | OBE    | Certified Emerging Local Business Enterprise   | ELBE    |
| Certified Small Local Business Enterprise     | SLBE   | Small Disadvantaged Business                   | SDB     |
| Woman-Owned Small Business                    | WoSB   | HUBZone Business                               | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB |  |         |
- ② As appropriate, Bidder shall indicate if Subcontractor is certified by:
- |  |        |  |          |
|--|--------|--|----------|
| City of San Diego                                    | CITY   | State of California Department of Transportation       | CALTRANS |
| California Public Utilities Commission               | CPUC   | San Diego Regional Minority Supplier Diversity Council | SRMSDC   |
| State of California's Department of General Services | CADoGS | City of Los Angeles                                    | LA       |
| State of California                                  | CA     | U.S. Small Business Administration                     | SBA      |

**The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification (except for OBE, SLBE and ELBE).**

**BIDDING DOCUMENTS**

**LIST OF SUBCONTRACTORS**

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB <sup>①</sup>	WHERE CERTIFIED <sup>②</sup>	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>TESTING SERVICES</u> Address: <u>3035 MAIN ST.</u> City: <u>SAN DIEGO</u> State: <u>CA</u> Zip: <u>92113</u> Phone: <u>619.234.9904</u>	CONSTRUCTOR	WELDING INSPECTION	\$11,270.-	ELBE	CITY	
Name: <u>VIC SALAZAR COMM.</u> Address: <u>2514 JAMACHA RD # 502-21</u> City: <u>EL CANON</u> State: <u>CA</u> Zip: <u>92019</u> Phone: <u>619.517.4744</u>	CONSTRUCTOR	PRE-CONST VIDEO	\$500.-	SLBE	CITY	
Name: <u>MCGRATH CONSULTING</u> Address: <u>PO BOX 20205</u> City: <u>EL CANON</u> State: <u>CA</u> Zip: <u>92021</u> Phone: <u>619.250.2025</u>	DESIGNER	WPCP	\$580.-	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 (except for OBE, SLBE and ELBE).**

**BIDDING DOCUMENTS**

**LIST OF SUBCONTRACTORS**

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB <sup>①</sup>	WHERE CERTIFIED <sup>②</sup>	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>ARTHUR G. ORTIZ CONCRETE</u> Address: <u>PO BOX 121177</u> City: <u>CHULA VISTA</u> State: <u>CA</u> Zip: <u>91912</u> Phone: <u>619-944-1030</u>	CONSTRUCTOR	CONCRETE FLATWORK	\$35,807.40	ELBE	CITY	
Name: <u>HMS CONSTRUCTION</u> Address: <u>1047 LA MIRADA</u> City: <u>VISTA</u> State: <u>CA</u> Zip: <u>92081</u> Phone: <u>760-727-9808</u>	CONSTRUCTOR	TRAFFIC LOOPS	\$7,788.-			
Name: <u>PAYCO</u> Address: <u>AC</u> City: _____ State: _____ Zip: _____ Phone: _____		STRIPING				

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

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

② As appropriate, Bidder shall indicate if Subcontractor is certified by:

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

**The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification (except for OBE, SLBE and ELBE).**

**BIDDING DOCUMENTS**

**LIST OF SUBCONTRACTORS**

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB <sup>①</sup>	WHERE CERTIFIED <sup>②</sup>	CHECK IF JOINT VENTURE PARTNERSHIP
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      |

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**BIDDING DOCUMENTS**

**NAMED EQUIPMENT/MATERIAL SUPPLIER LIST**

The Bidder seeking the recognition of equipment, materials, or supplies obtained from Suppliers towards achieving any mandatory, voluntary, or both subcontracting participation percentages shall list the Supplier(s) on the Named Equipment/Material Supplier List. The Named Equipment/Material Supplier List, at a minimum, shall have the name, locations (City) and the **DOLLAR VALUE** of the Suppliers. The Bidder will be credited up to 60% of the amount to be paid to the Suppliers for such materials and supplies unless vendor manufactures or substantially alters materials and supplies in which case 100% will be credited. The Bidder is to indicate (Yes/No) whether listed firm is a supplier or manufacturer. In calculating the subcontractor participation percentages, vendors/suppliers will receive 60% credit of the listed **DOLLAR VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed dollar value for purposes of calculating the Subcontractor Participation Percentage, Suppliers will receive 60% credit of the listed **DOLLAR VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed **DOLLAR VALUE** for purposes of calculating the subcontractor participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	MATERIALS OR SUPPLIES	DOLLAR VALUE OF MATERIAL OR SUPPLIES	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB <sup>①</sup>	WHERE CERTIFIED <sup>②</sup>
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:

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

**The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification (except for OBE, SLBE and ELBE).**



# CAMINO DEL SUR RECYCLED WATER CONVERSION

CAMINO DEL SUR RECYCLED WATER CONVERSION

## CONTRACTOR'S RESPONSIBILITIES

- PURSUANT TO SECTION 4216 IF THE GOVERNMENT CODE, AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT THE REGIONAL NOTIFICATION CENTER (UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.
- THE CONTRACTOR SHALL NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SDG&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES (I.E. 69 KV & HIGHER).
- THE CITY FORCES, WHERE CALLED OUT WILL MAKE PERMANENT CUT & PLUGS AND CONNECTIONS.
- EXISTING MAINS SHALL BE KEPT IN SERVICE IN LIEU OF HIGH-LINING, UNLESS OTHERWISE SHOWN ON PLANS.
- STORM DRAIN INLETS ARE TO REMAIN FUNCTIONAL/OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.
- UNLESS OTHERWISE NOTED AS PREVIOUSLY POTHOLED (PH), ELEVATIONS SHOWN ON THE PROFILE FOR EXISTING UTILITIES ARE BASED ON A SEARCH OF THE AVAILABLE RECORD INFORMATION ONLY AND ARE SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THE CITY DOES NOT GUARANTEE THAT IT HAS REVIEWED ALL AVAILABLE DATA. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES EITHER SHOWN ON THE PLANS OR MARKED IN THE FIELD IN ACCORDANCE WITH THE SPECIFICATIONS SECTION 5-L.

## STORM WATER PROTECTION

THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER NO. 2009-009-DWQ AND A WPCP.

## ABBREVIATIONS

ABAND	ABANDON	ECC	ECCENTRIC	PE	PLAIN END
ABAND'D	ABANDONED	EB	ENCASED BURIED	PVC	POLYVINYL CHLORIDE
AV	AIR/VACUUM VALVE	EC	END CURVE	PSI	POUNDS PER SQUARE INCH
AC, ACP	ASBESTOS CEMENT PIPE	E, ELEC	ELECTRIC	PZ	PRESSURE ZONE
AHD	AHEAD	EL, ELEV	ELEVATION	PROP	PROPOSED
BK	BACK	EX, EXIST	EXISTING	RC	RECLAIMED WATER
BRG	BEARING	E/O	EAST OF	RJ	RESTRAINED JOINT
BC	BEGIN CURVE	FT	FEET	RED	REDUCER
BTWN	BETWEEN	FH	FIRE HYDRANT	RT	RIGHT
BO	BLOW OFF VALVE	F, FL	FLANGE	R/W	RIGHT OF WAY
BFV	BUTTERFLY VALVE	G	GAS	SCH	SCHEDULE
CATV	CABLE TV	GV	GATE VALVE	SWR	SEWER
CI	CAST IRON PIPE	HDPE	HIGH DENSITY POLYETHYLENE	S/O	SOUTH OF
CP	CATHODIC PROTECTION	HP	HIGH PRESSURE	SST	STAINLESS STEEL
CTS	CATHODIC PROTECTION STATION	HPI	HORIZONTAL POINT OF INFLECTION	STA	STATION
C	CENTERLINE	IE	INVERT ELEVATION	SO	STUB OUT
CML&TW	CEMENT MORTAR LINED AND TAPE WRAPPED	LT	LEFT	S	SURVEY LINE
CL	CLASS	LF	LINEAR FEET	T, TEL	TELEPHONE
CONC	CONCRETE	MSL	MEAN SEA LEVEL	TS	TRAFFIC SIGNAL, TEST STATION
COND	CONDUIT	MJ	MECHANICAL JOINT	TYP	TYPICAL
CONT	CONTOUR	MIN	MINIMUM	UNK	UNKNOWN
CONTR	CONTRACTOR	MTD	MULTIPLE TELEPHONE DUCT	VPI	VERTICAL POINT OF INFLECTION
A	DEFLECTION ANGLE	N/O	NORTH OF	VCP	VITRIFIED CLAY PIPE
DIA	DIAMETER	OVHD	OVER HEAD	WTR	WATER
DB	DIRECT BURIED			WM	WATER METER
DIP	DUCTILE IRON PIPE			W/O	WEST OF

## LIMITS OF WORK

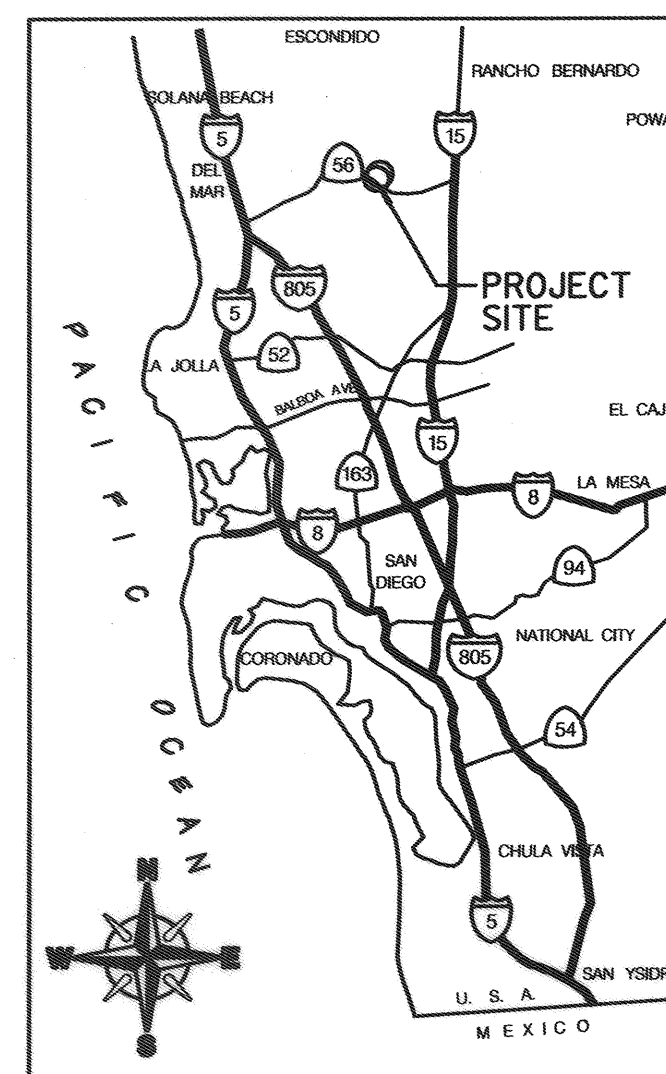
SHEET NO.	DISCIPLINE CODE	STREET	LIMITS	PIPE		LENGTH (FT)
				SIZE	MATERIAL	
1	G-1	COVER SHEET				
2	C-1	CAMINO DEL SUR	10+00 TO 18+00	16	PVC	800.00
3	C-2	CAMINO DEL SUR	18+00 TO 26+00	16	PVC	800.00
4	C-3	CAMINO DEL SUR	26+00 TO 34.00	16	PVC	800.00
5	C-4	CAMINO DEL SUR	34+00 TO 35+48.3	16	PVC	148.3
6	C-5	TORREY MEADOWS DR	1+00.00 TO 2+03.16	24	CMLRC	103.16
7	C-6	SLOPE REPAIR		12	PVC RC	10.00
8	C-7	STREET RESURFACING				
9	C-8	CURB RAMP LOCATIONS				
10	C-9	WORK BY CITY FORCES				
11	CP-1	WATER POLLUTION CONTROL SITE PLAN				
12	CP-2	CATHODIC PROTECTION DETAILS				
13	CD-1	CATHODIC PROTECTION SPECIFICATIONS				
T-1 - T-14	T-1 - T-14	TRAFFIC CONTROL PLANS				
TOTAL				WATER		2661.29

## DISCIPLINE CODE

- G GENERAL
- C CIVIL
- T TRAFFIC CONTROL

## WORK TO BE DONE

CONSTRUCTION CONSISTS OF THE INSTALLATION OF 16" PVC WATERLINE, 24" STEEL RECLAIMED WATER, PEDESTRIAN RAMP IMPROVEMENTS, REMOVAL OF CROSS-CONNECTION BACKFLOW PREVENTORS, SLOPE REPAIR, SLURRY SEAL, AND TRAFFIC STRIPING.



VICINITY MAP  
NOT TO SCALE

PERMIT NUMBER II-12-NUX-0126  
CO SD RTE 56 PM 6.07  
AS-BUILT PLANS FOR ROADWAY  
GEOMETRIC AND ABOVE GROUND  
FEATURES

STATE REPRESENTATIVE DATE

## FIELD DATA

**BENCHMARK:** NBP CAMINO DEL SUR AND CARMEL VALLEY RD  
ELEV. 436.910 MSL, BASED ON  
NGVD 29 FEET AS SHOWN IN THE  
CITY OF SAN DIEGO BENCH BOOK  
**FIELD NOTES:** R. RUSSELL, C. RENNER; 288-1722, 2/8/2011  
**DATUM:** MEAN SEA LEVEL  
**STREETS REQUIRING 12" TRENCH CAP:**  
CAMINO DEL SUR

## BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS PROJECT WAS DERIVED FROM A PREVIOUS STATIC GPS SURVEY USING GPS 423 AND GPS 17 AS SHOWN ON R. OF S. 14492 I.E. N 05° 2' 18" E, NAD 83 FEET, ZONE 6 (EPOCH 9L35), UTILIZING RTK/GPS FIELD PROCEDURES WITH A CALVRS BASE STATION LOCATED AT KMSA AND CONSTRAINING TO GPS 423 AND GPS17.

## SOURCE OF SURVEY:

SURVEY PERFORMED BY CITY OF SAN DIEGO  
FIELD SURVEY SECTION ON FEB 8, 2011



## LEGEND

### IMPROVEMENTS

TRENCH RESURFACING

CUTTING AND PLUGGING ABANDONED WATER MAIN

SURVEY MONUMENT

PIPE BEDDING AND TRENCH BACKFILL FOR POTABLE AND RECYCLED WATER MAINS

VALVES WITH CAPS AND WELLS

4" BLOW-OFF ASSEMBLY

2" AIR & VACUUM VALVE

SLOPE PROTECTION/CUTOFF WALL

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

### STANDARD DRAWINGS

SDG-107 TYPE A  
TRENCH RESURFACING FOR ASPHALT  
CONCRETE SURFACED STREETS

WP-03

M-10

SDW-100, WP-02

SDW-100, SDW-109, WV-02 TYPE B,  
WV-03, WV-04, WV-5,  
DETAIL 5 SHT CD-1

SDW-100, SDW-106, WB-01,  
WB-02, WB-03, WB-04, WB-05,

SDW-100, SDW-117, WA-01,  
WA-02, WA-04, WA-06

DETAIL 3 SHT CD-1

### SYMBOL

E-----

△

—X—X—X—

—X—X—X—

B.O.

A.V.

—X—X—X—

—X—X—X—

## 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)

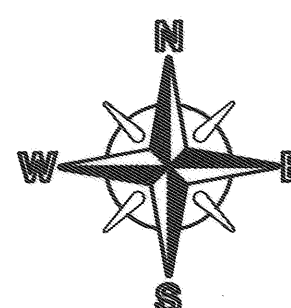
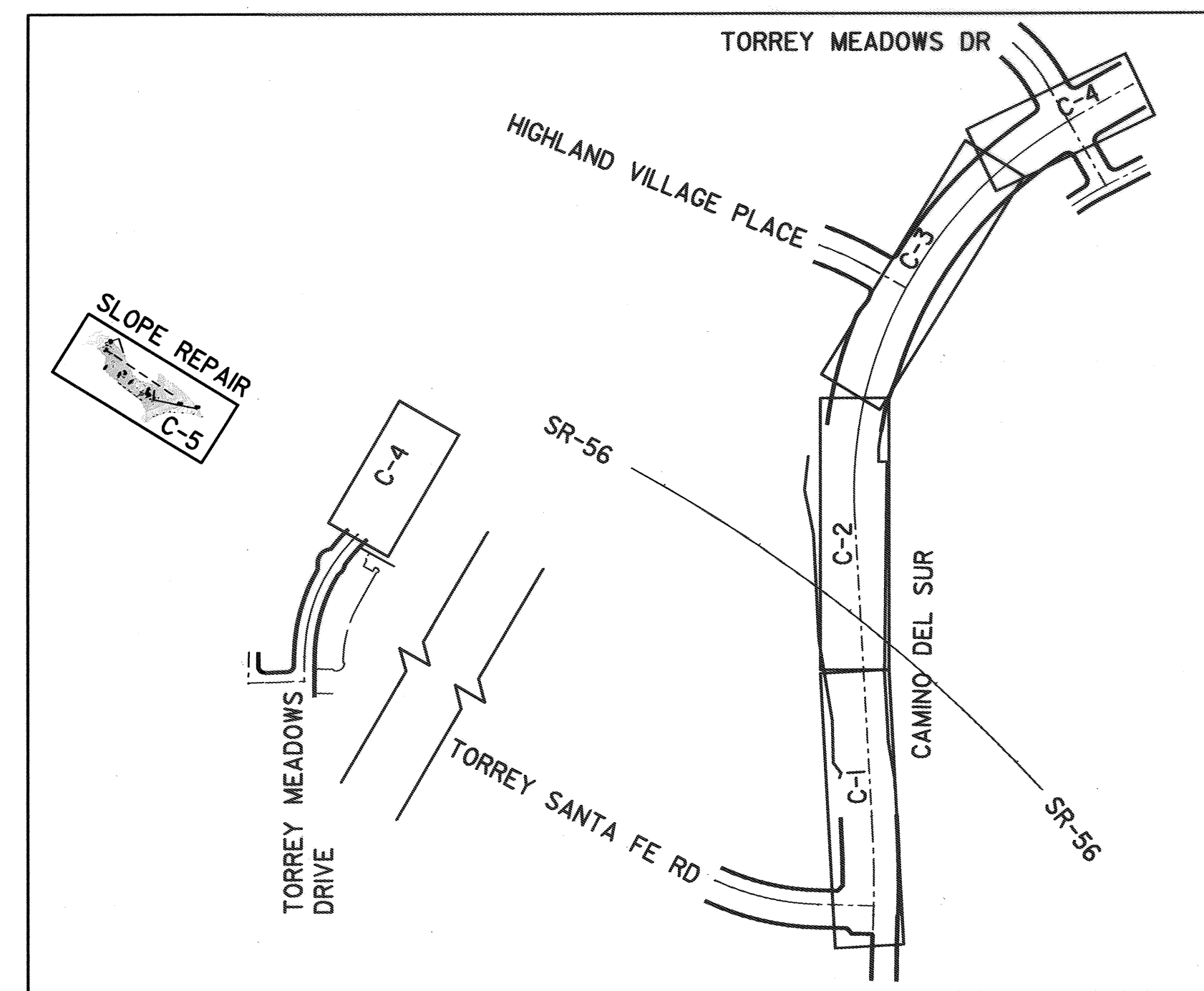
EX TRAFFIC SIGNAL

GAS MAIN

ELEC. COND., TEL. COND., CATV

## ORDER OF WORK

- CONSTRUCT 16" POTABLE WATER PIPE AND PLACE INTO SERVICE. SEE SHTS C-1 THROUGH C-4.
- REMOVE THE ABOVE GROUND CROSS-CONNECTION BACKFLOW PREVENTOR ON TORREY SANTA FE ROAD. SEE SHT C-1.
- REMOVE THE ABOVE GROUND CROSS-CONNECTION BACKFLOW PREVENTOR ON CAMINO DEL SUR. SEE SHT C-4.
- CITY TO PERFORM CROSS-CONNECTION TEST TO ENSURE THE POTABLE WATER AND RECYCLED WATER SYSTEMS ARE NOT CONNECTED TOGETHER.
- INSTALL THE 100+ FEET OF 24" RECYCLED WATER PIPE BETWEEN TORREY MEADOWS DRIVE AND CALTRANS ROW. SEE SHT C-4.
- INSTALL A 10' SECTION OF 12" PVC RECYCLED WATER PIPE TO CONNECT THE RECYCLED WATER PIPES 100' NORTH OF THE INTERSECTION OF TORREY MEADOWS DRIVE AND CAMINO DEL SUR. (BY CITY FORCES).



KEY MAP  
NO SCALE

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.

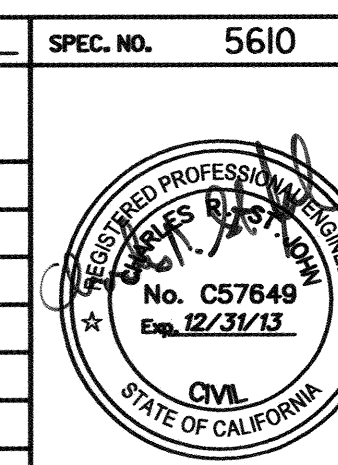
*Charles R. St. John*  
CHARLES R. ST. JOHN

8-17-12  
DATE

CITY OF SAN DIEGO  
PUBLIC WORKS PROJECT



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



PLANS FOR THE CONSTRUCTION OF  
CAMINO DEL SUR  
RECYCLED WATER CONVERSION  
COVER SHEET

CITY OF SAN DIEGO, CALIFORNIA  
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT  
SHEET 10F OF 13 SHEETS

APPROVED: *John Stohr* 9-20-12  
FOR CITY ENGINEER DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	PB/RSJ			

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

WATER WBS B-10200  
SEWER WBS

PROJECT ENGINEER  
JOHN STOHR  
ASSOCIATE ENGINEER

SEE SHEETS  
CC527 COORDINATE  
SEE SHEETS  
CC583 COORDINATE  
36608-1-D

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.

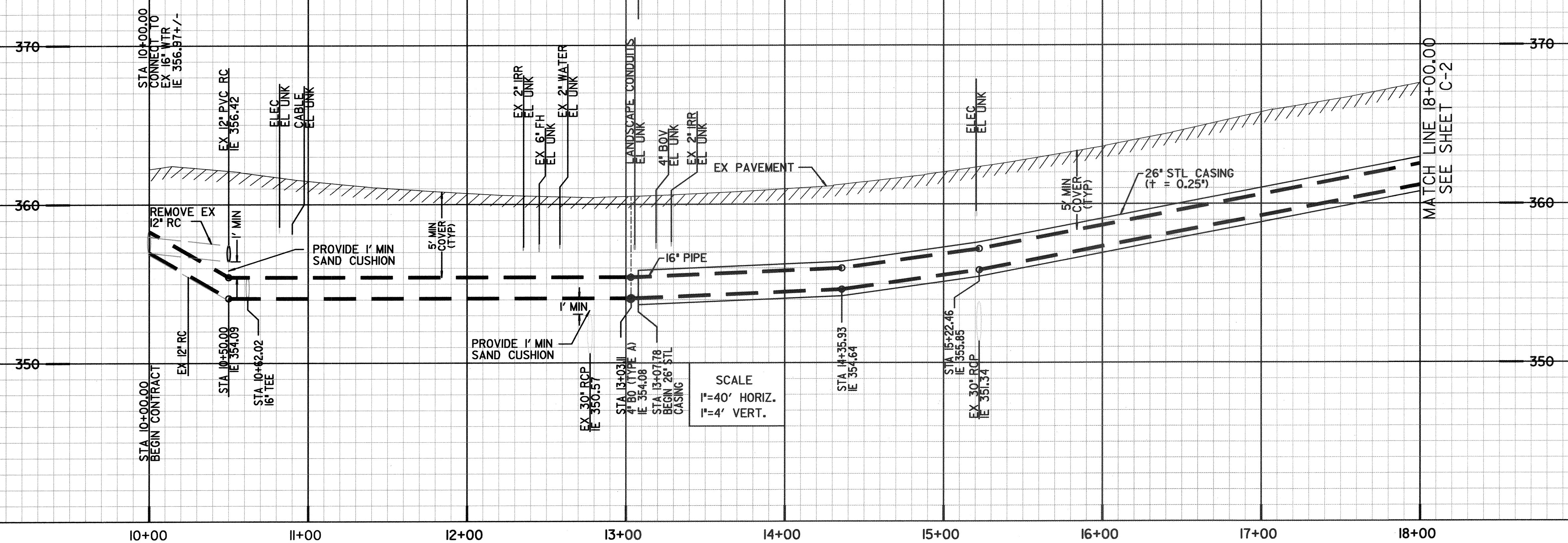


TORREY SANTA FE ROAD

CAMINO DEL SUR

HYDROSTATIC TEST PRESSURE = 235 PSIG AT HIGHEST POINT

CITY OF SAN DIEGO CALTRANS



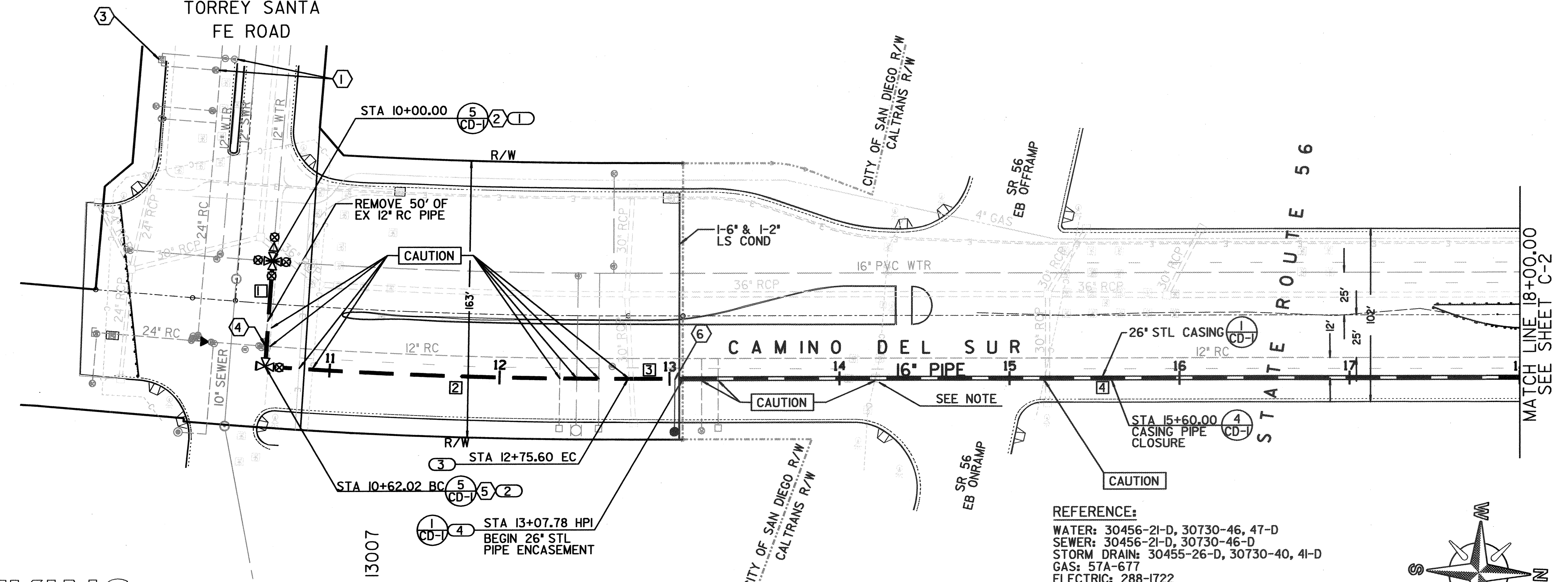
PERMIT NUMBER II-12-NUX-0126  
 CO SD RTE 56 PM 6.07  
 AS-BUILT PLANS FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND  
 FEATURES

STATE REPRESENTATIVE DATE

PROPOSED PIPE DATA TABLE				
NO.	Δ/BEARING	RADIUS	LENGTH	REMARKS
1	S 89° 07' 52" E	-	62.02'	16" PVC, CLASS 235
2	4° 01' 46" E	3037'	213.58'	16" PVC, CLASS 235
3	N 3° 09' 53" W	-	32.18'	16" PVC, CLASS 235
4	N 3° 12' 37" W	-	492.22'	16" PVC, CLASS 235

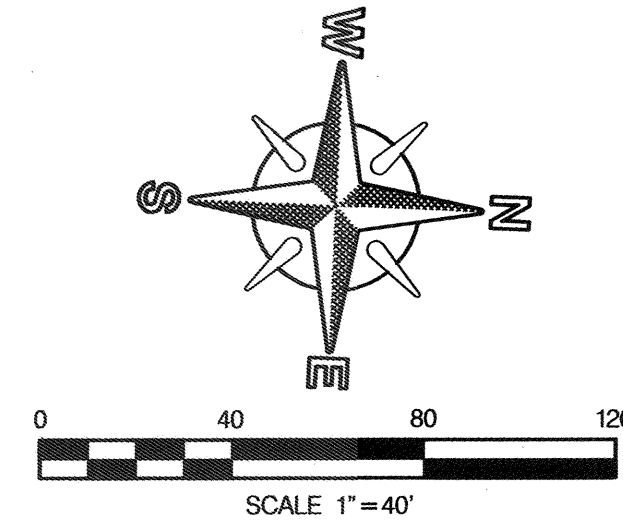
COORDINATE TABLE			
NO.	NORTHING	EASTING	DESCRIPTION
1	1929122.28	6284697.91	16" CROSS
2	1929121.35	6284759.92	16" TEE, BC
3	1929334.84	6284755.63	END CURVE
4	1929366.97	6284753.86	ANGLE POINT

- ① BY CITY FORCES  
AHD OF CONTRACTOR  
CLOSE EX GATE VALVES  
PAINT VALVE COVERS RED
- ② BY CITY FORCES  
AHD OF CONTRACTOR  
CONTRACTOR TO FURNISH MATERIALS  
STA 10+00.00  
REMOVE EX 16" X 12" CROSS AND VALVES  
INSTALL  
1- 16" CROSS (F)  
3 - 16" BFV (F X M.J) LT, RT, AHD  
1- 16" X 12" REDUCER (F), BK  
1- 12" GV (F X M.J) BK  
CLOSE 16" BFV AHD  
OPEN 16" BFV, AHD  
AFTER NEW MAIN HAS BEEN ACCEPTED
- ③ BY CONTRACTOR  
REMOVE EX 12" BACKFLOW  
ASSY. PER DETAIL 2 SHT CD-1
- ④ BY CITY FORCES  
AHD OF CONTRACTOR  
STA 10+50.00  
REMOVE EXISTING TEE AND  
2 - 12" GV  
RECONNECT PIPE
- ⑤ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 10+62.02  
1- 16" TEE (F)  
1- 16" BFV (F X M.J) AHD  
1- BLIND FLANGE, RT
- ⑥ BY CONTRACTOR  
FURNISH AND INSTALL  
STA 13+03.11  
1- 4" BO ASSY.



REFERENCE:  
 WATER: 30456-21-D, 30730-46, 47-D  
 SEWER: 30456-21-D, 30730-46-D  
 STORM DRAIN: 30455-26-D, 30730-40, 41-D  
 GAS: 57A-677  
 ELECTRIC: 288-1722  
 CABLE TV: 4-3-0231, 4-3-0248  
 TELEPHONE: RQ103  
 IMPROVEMENTS: 30730-35, 36-D  
 100' SCALE/FIELD BOOK: GOIN  
 THOMAS BROS.: 1189-A4  
 HGL: 610

NOTE:  
 REPLACE DAMAGED TRAFFIC LOOPS  
 PER SPECIFICATION SECTION 302-1.9.



CAMINO DEL SUR RECYCLED WATER CONVERSION				
CAMINO DEL SUR TORREY SANTA FE ROAD TO STA 18+00.00				
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 2 OF 13 SHEETS				WATER WBS: BIO200
DATE: 9.20.12				SEWER WBS:
FOR CITY ENGINEER: [Signature]				ASSOCIATE ENGINEER: JOHN STOHR
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	ATKINS			
CONTRACTOR: 36608-2-D				DATE STARTED: 286-1719
INSPECTOR:				DATE COMPLETED:

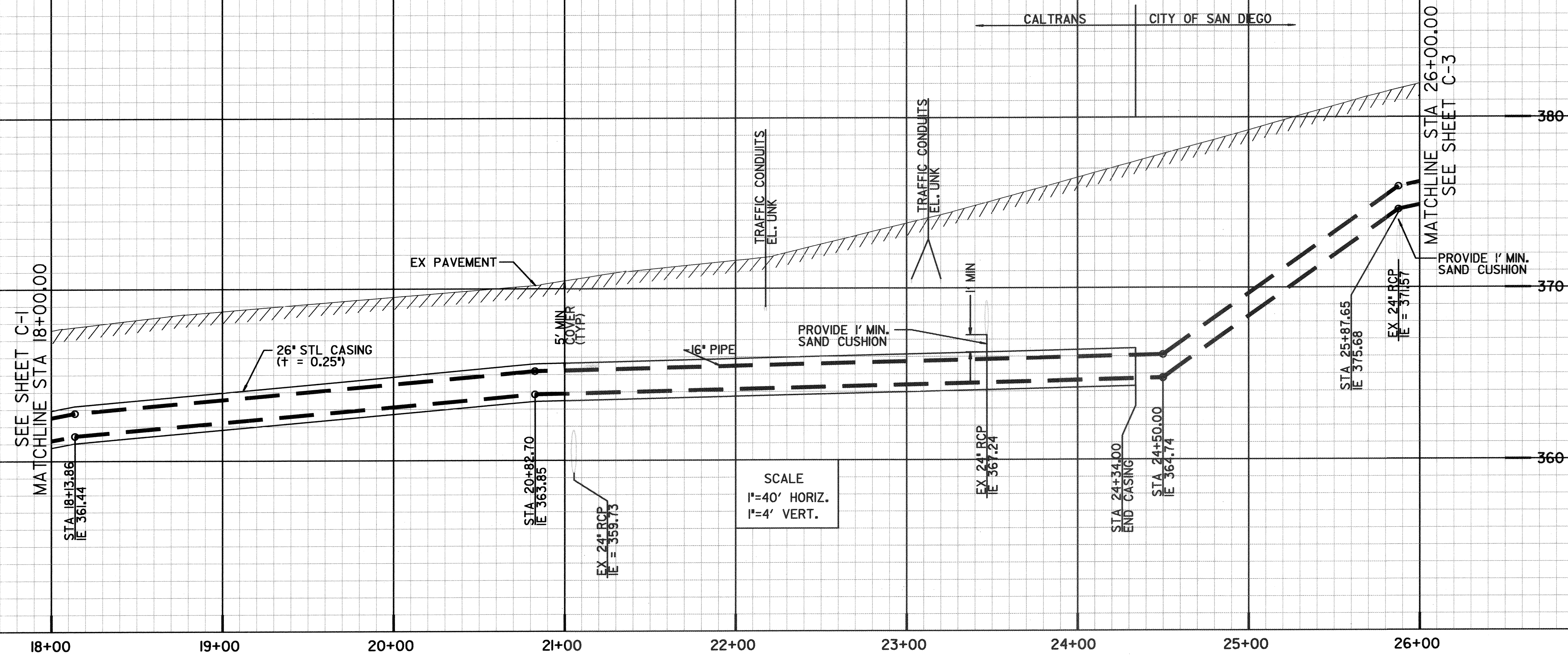
**ATKINS**  
 3570 CARMEL MOUNTAIN ROAD  
 SUITE 300  
 SAN DIEGO CA, 92130  
 (858) 874-1810

CAMINO DEL SUR RECYCLED WATER CONVERSION

C-1



CAMINO DEL SUR  
HYDROSTATIC TEST PRESSURE = 235 PSIG AT HIGHEST POINT

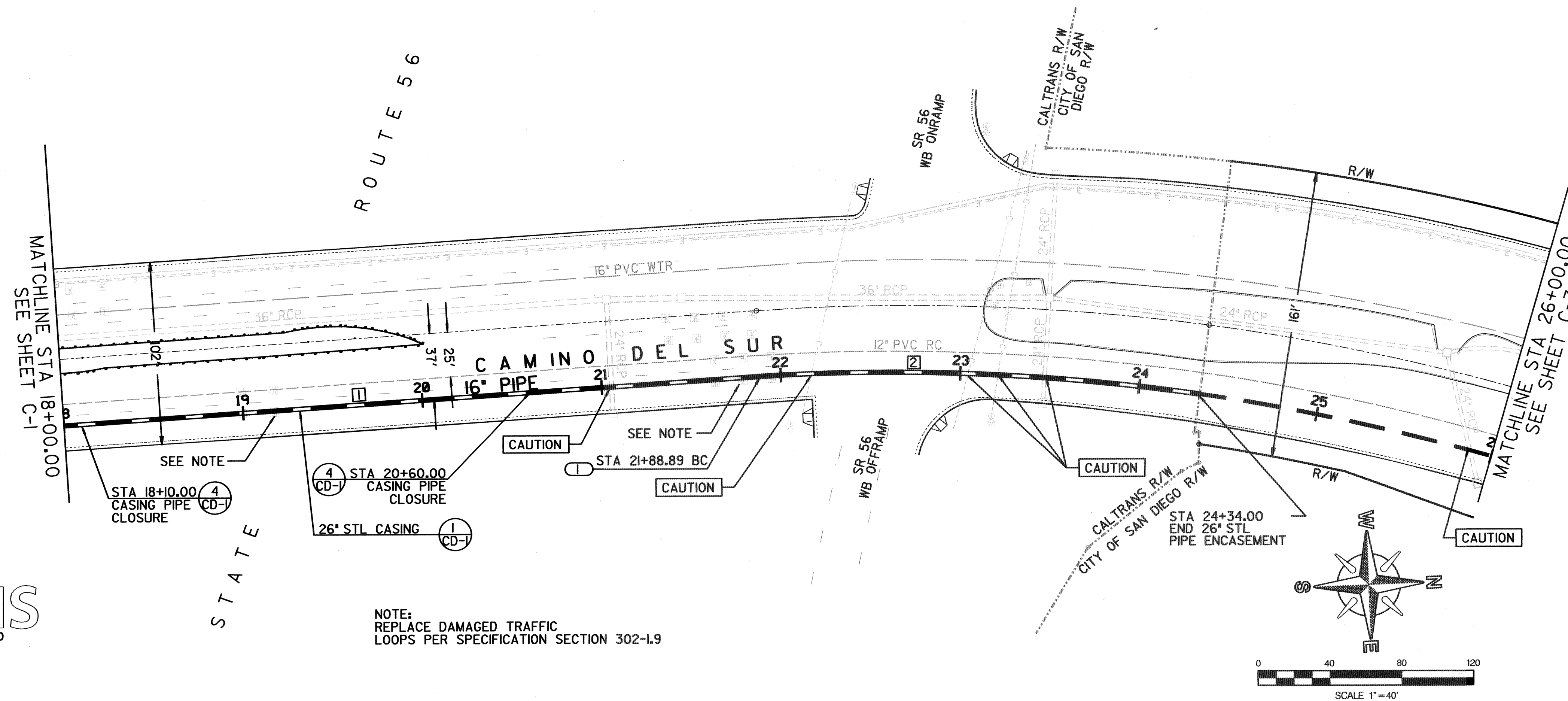


PERMIT NUMBER II-12-NUX-0126  
CO SD RTE 56 PM 6.07  
AS-BUILT PLANS FOR ROADWAY  
GEOMETRIC AND ABOVE GROUND  
FEATURES  
STATE REPRESENTATIVE DATE

PROPOSED WATER PIPE DATA				
NO.	Δ/BEARING	RADIUS	LENGTH	REMARKS
1	N 3° 12' 37" W	-	388.89'	16" PVC, CLASS 235
2	19° 28' 18"	1209.70	411.1'	16" PVC, CLASS 235

COORDINATE TABLE			
NO.	NORTHING	EASTING	DESCRIPTION
1	1930246.54	6284704.52	BEGIN CURVE

REFERENCE:  
WATER: 30730-47, 48-D  
SEWER: N/A  
STORM DRAIN: 30730-41-D  
GAS: 57A-677  
ELECTRIC: 288-1722  
CABLE TV: 4-3-0231, 4-3-0248  
TELEPHONE: RQI01DC, DD  
IMPROVEMENTS: 30730-36, 37-D  
100' SCALE/FIELD BOOK: GOIN  
THOMAS BROS.: 1189-A4  
HGL: 610



NOTE:  
REPLACE DAMAGED TRAFFIC  
LOOPS PER SPECIFICATION SECTION 302-1.9

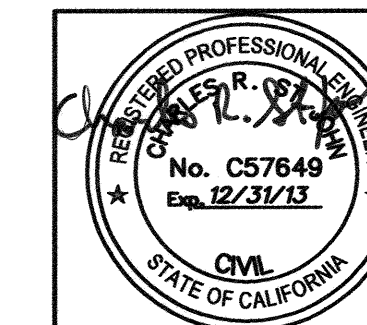
**ATKINS**  
3570 CARMEL MOUNTAIN ROAD  
SUITE 300  
SAN DIEGO CA, 92130  
(658) 874-1810

C-2

**CAMINO DEL SUR  
RECYCLED WATER CONVERSION**

CAMINO DEL SUR  
STA 18+00.00 TO STA 26+00.00

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 3 OF 13 SHEETS		WATER WBS: <b>BI0200</b> SEWER WBS:
APPROVED FOR CITY ENGINEER: <i>John Agor</i>	DATE: <b>9.20.12</b>	DESIGNED BY: <b>JOHN STOHR</b> ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	BY: ATKINS	PROJECT ENGINEER: <b>286-1719</b> CCS27 COORDINATE
DATE STARTED:	DATE COMPLETED:	1930-6284 CCS83 COORDINATE
CONTRACTOR:	INSPECTOR:	36608-3-D

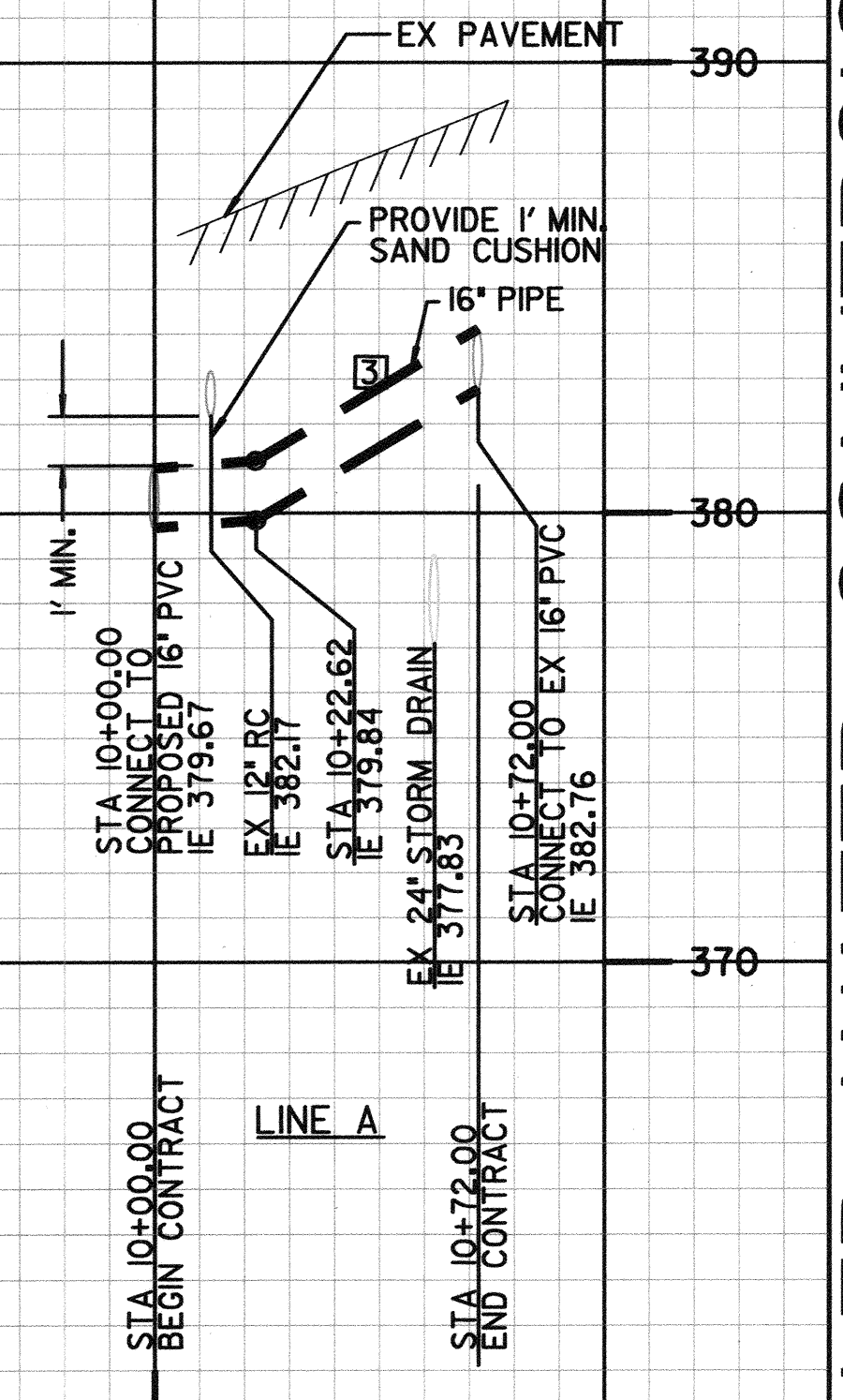
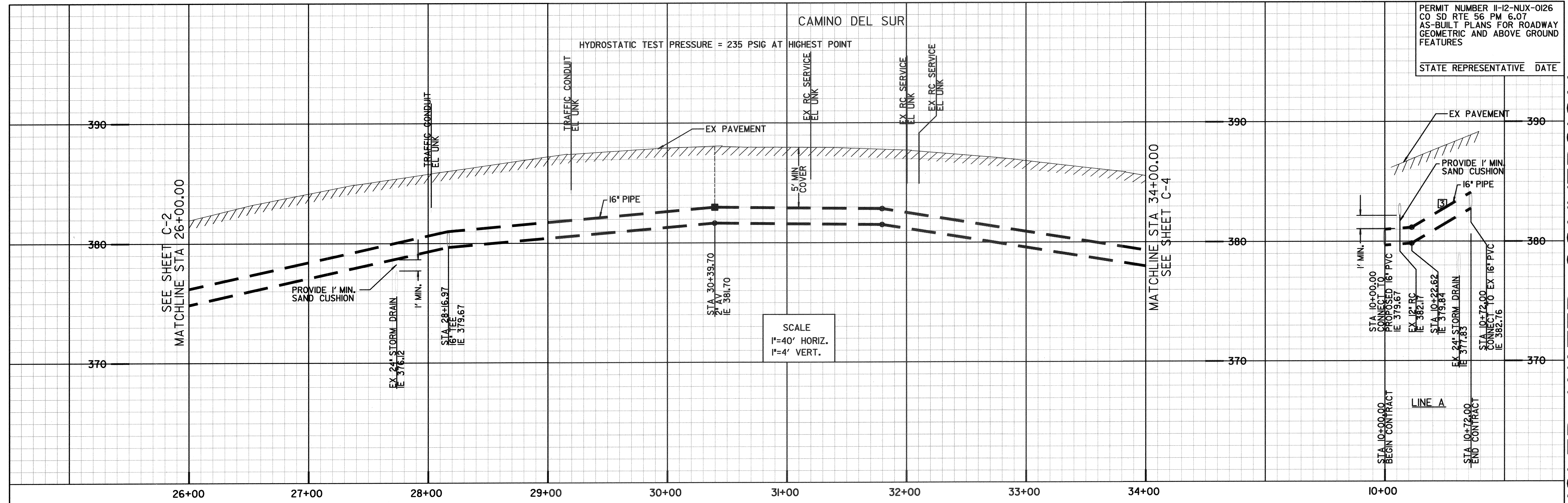


CAMINO DEL SUR RECYCLED WATER CONVERSION



PERMIT NUMBER II-12-NUX-0126  
 CO SD RTE 56 PM 6.07  
 AS-BUILT PLANS FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND  
 FEATURES

STATE REPRESENTATIVE DATE



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

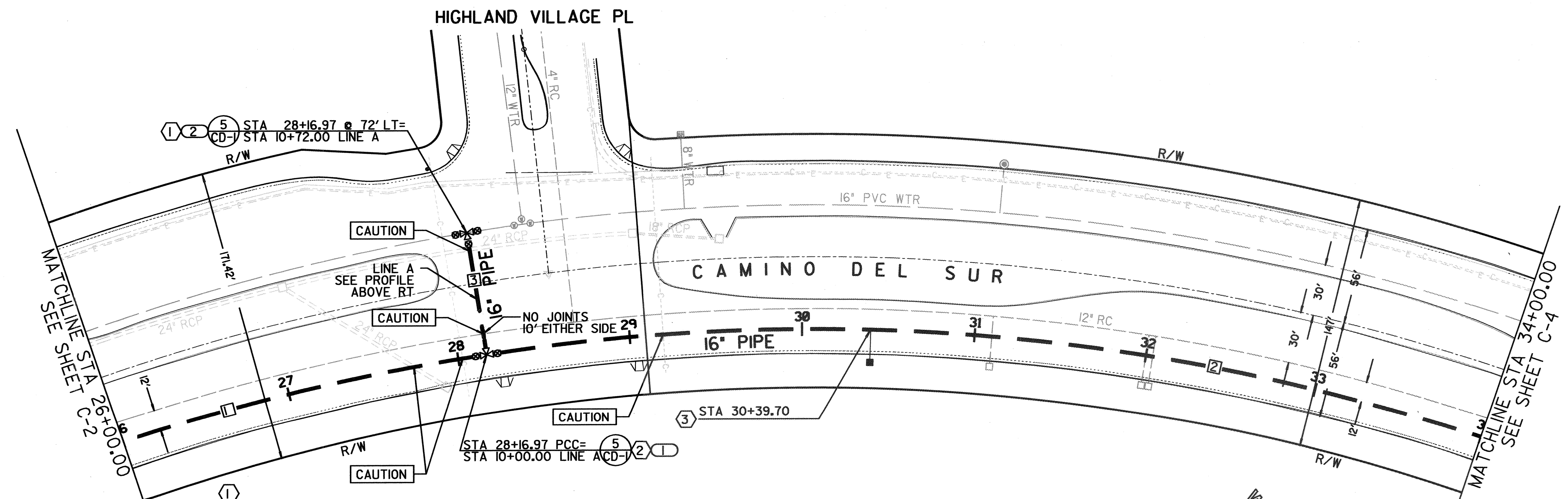
PROPOSED PIPE DATA TABLE

NO.	Δ/BEARING	RADIUS	LENGTH	REMARKS
1	10° 15' 44"	1209.70'	216.67'	16" PVC, CLASS 235
2	27° 40' 03"	1208.00'	583.33'	16" PVC, CLASS 235
3	N 63° 50' 37" W	-	72.00'	16" PVC, CLASS 235

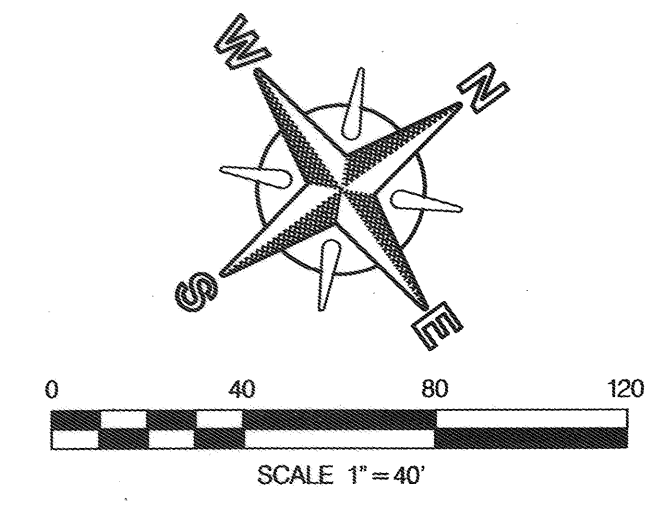
COORDINATE TABLE

NO.	NORTHING	EASTING	DESCRIPTION
1	1930853.47	6284835.59	16" TEE, PCC
2	1930885.08	6284771.23	16" TEE

REFERENCE:  
 WATER: 30730-48, 49-D  
 SEWER: N/A  
 STORM DRAIN: 30730-43-D  
 GAS: 57A-948  
 ELECTRIC: 294-1722  
 CABLE TV: 4-3-0231, 4-3-0248  
 TELEPHONE: RQI0IDA, DB, RQI0IBC, BD  
 IMPROVEMENTS: 30730-37, 38-D  
 100' SCALE/FIELD BOOK: G02N  
 THOMAS BROS.: 1189-A4  
 HGL: 610



- ① CITY FORCES AHD OF CONTRACTOR CONTRACTOR TO FURNISH MATERIALS  
 STA 28+16.97, 72' LT  
 CUT-IN:  
 1 - 16" TEE (F)  
 3 - 16" BFV (F X MJ) LT, RT, AHD  
 CLOSE 16" BFV, AHD  
 OPEN 16" BFV, AHD AFTER NEW MAIN HAS BEEN APPROVED
- ② BY CONTRACTOR FURNISH AND INSTALL  
 STA 28+76.74  
 1 - 16" TEE (F)  
 2 - 16" BFV (F X MJ) AHD, BK
- ③ BY CONTRACTOR FURNISH AND INSTALL  
 STA 31+39.70  
 1 - 2" AV



C-3

**CAMINO DEL SUR  
 RECYCLED WATER CONVERSION**

CAMINO DEL SUR  
 STA 26+00.00 TO STA 34+00.00

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 4 OF 13 SHEETS		WATER WBS: <b>BI0200</b> SEWER WBS:
APPROVED BY: <i>John Stohr</i> FOR CITY ENGINEER	DATE: <b>9.20.12</b>	BY: <b>JOHN STOHR</b> ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	BY: ATKINS	APPROVED: DATE: FILMED:
CONTRACTOR: <b>36608-4-D</b>		DATE STARTED: DATE COMPLETED:

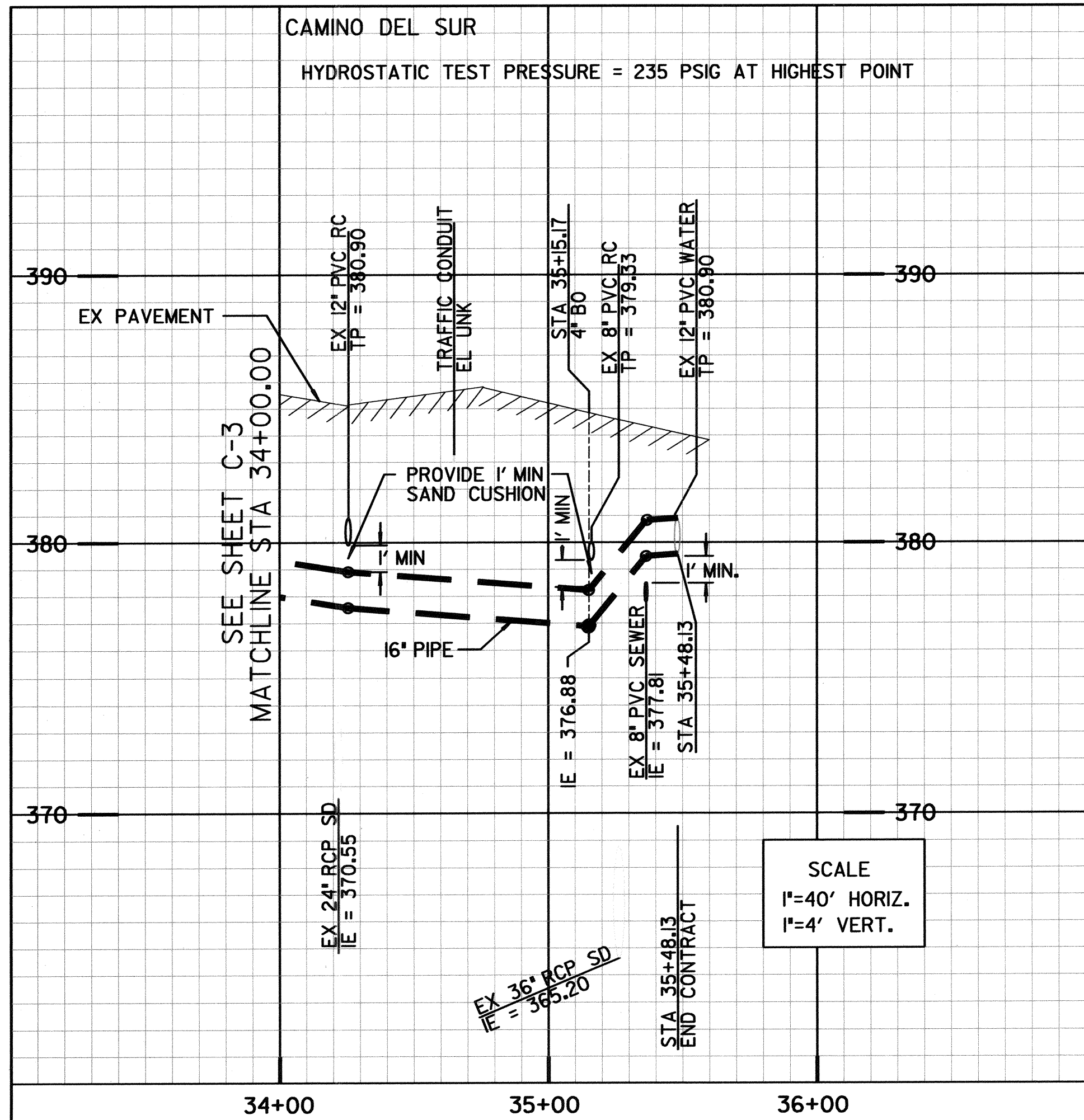
PROJECT NUMBER: **290-1719**  
 CCS27 COORDINATE  
 1930-6284  
 CCS83 COORDINATE

**ATKINS**  
 3570 CARMEL MOUNTAIN ROAD  
 SUITE 300  
 SAN DIEGO CA, 92130  
 (658) 874-1810

CAMINO DEL SUR RECYCLED WATER CONVERSION



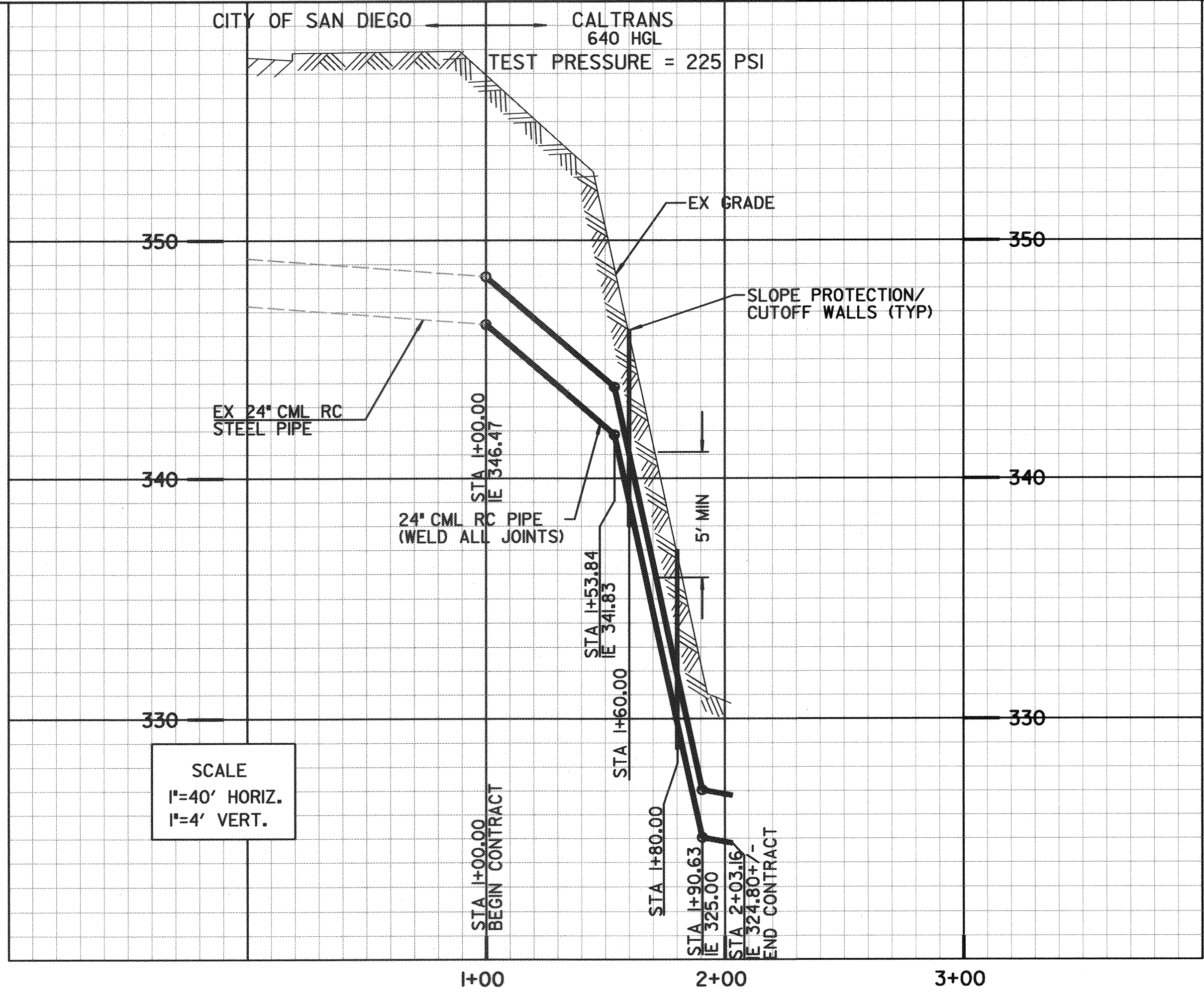
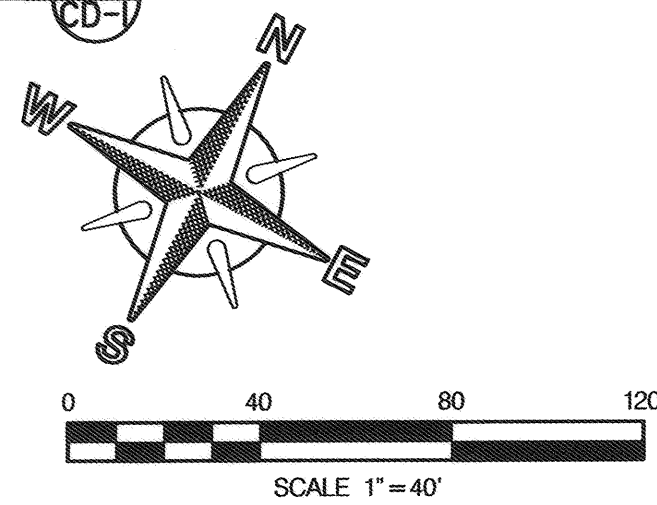
CAMINO DEL SUR RECYCLED WATER CONVERSION



- ① BY CONTRACTOR FURNISH AND INSTALL  
STA 34+08.77  
INSTALL 45° BEND (MJ X MJ)  
L= 44' 48' 37"
- ② BY CONTRACTOR FURNISH AND INSTALL  
STA 34+52.06  
INSTALL  
1- 45° BEND (MJ X MJ)  
L= 45' 57' 37"
- ③ BY CITY FORCES AHD OF CONTRACTOR CONTRACTOR TO FURNISH MATERIALS  
STA 35+48.13  
CUT IN:  
1- 16" X 12" CROSS (F)  
1- 16" BFV (F X MJ) BK  
1- 12" GV (F X MJ) RT  
1- 16" BLIND FLANGE, AHD  
OPEN 12" GV, RT  
CLOSE 16" BFV, BK  
OPEN 16" BFV, BK  
AFTER NEW MAIN HAS BEEN ACCEPTED
- ④ BY CITY FORCES AHD OF CONTRACTOR  
CLOSE EX. VALVE  
PAINT VALVE  
COVER RED
- ⑤ BY CONTRACTOR FURNISH AND INSTALL  
STA 35+15.17  
INSTALL  
1- 4" BO ASSY
- ⑥ BY CITY FORCES CONTRACTOR TO FURNISH MATERIALS  
STRAIGHT IN CONNECTION  
REMOVE END CAPS  
CONNECT TO EX 12" RC

NO.	Δ/BEARING	RADIUS	LENGTH	REMARKS
1	N 0° 24' 54" E	1208.00'	8.77'	16" PVC, CLASS 235
2	N 09° 39' 32" E	-	43.29'	16" PVC, CLASS 235
3	N 04° 26' 21" E	1240.00'	96.07'	16" PVC, CLASS 235

REFERENCE:  
 WATER: 30730-49, 50-D  
 SEWER: 30730-49-D  
 STORM DRAIN: 30730-43-D  
 GAS: 57A-676  
 ELECTRIC: 290-1722  
 CABLE TV: PW-062-02, 03  
 TELEPHONE: RQ10IBB, RQ090IAA  
 IMPROVEMENTS: 30730-38, 39-D  
 100' SCALE/FIELD BOOK: G02N  
 THOMAS BROS.: 1189-A4  
 HGL: 610



PERMIT NUMBER II-12-NUX-0126  
 CO SD RTE 56 PM 6.07  
 AS-BUILT PLANS FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND  
 FEATURES

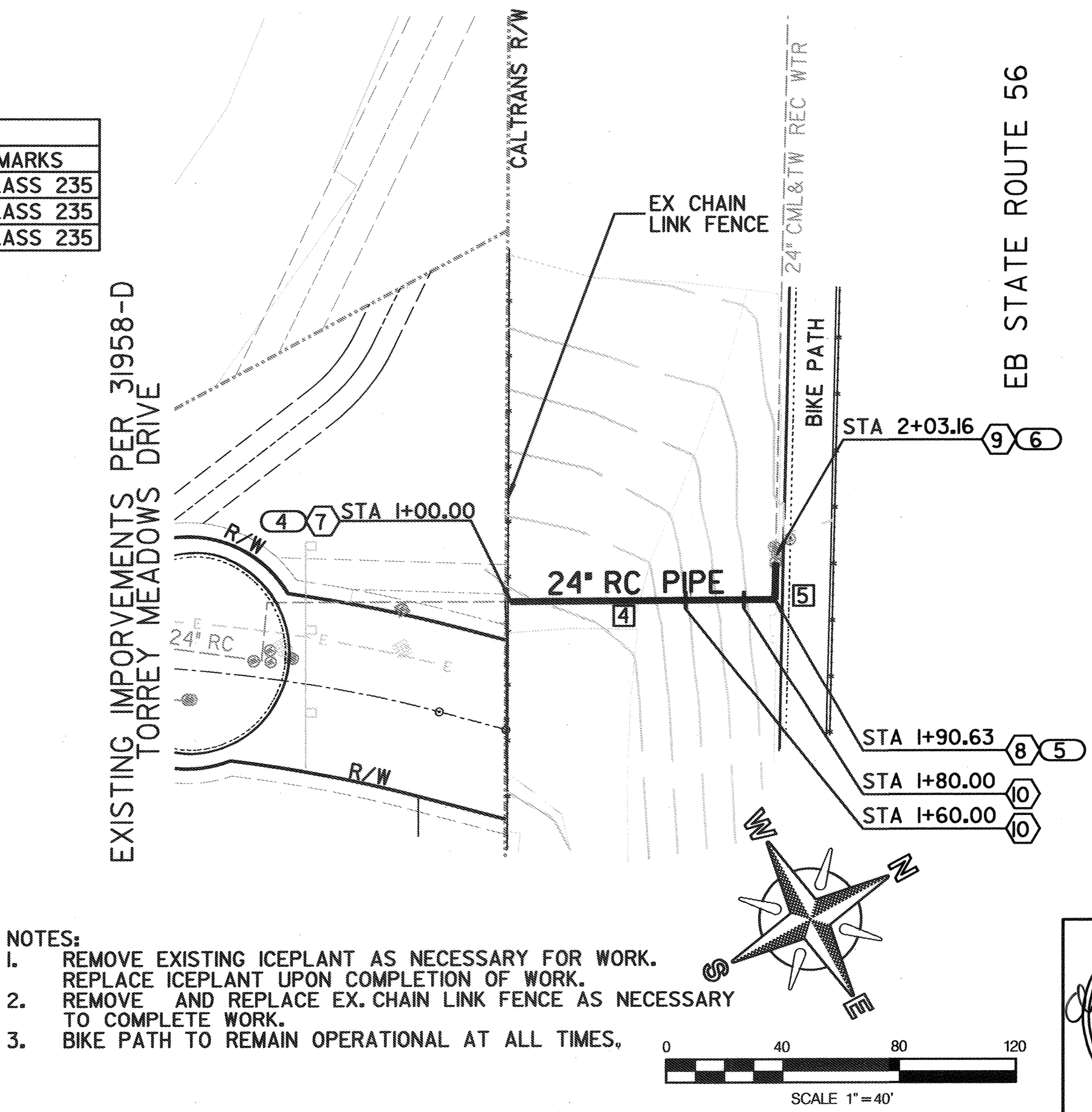
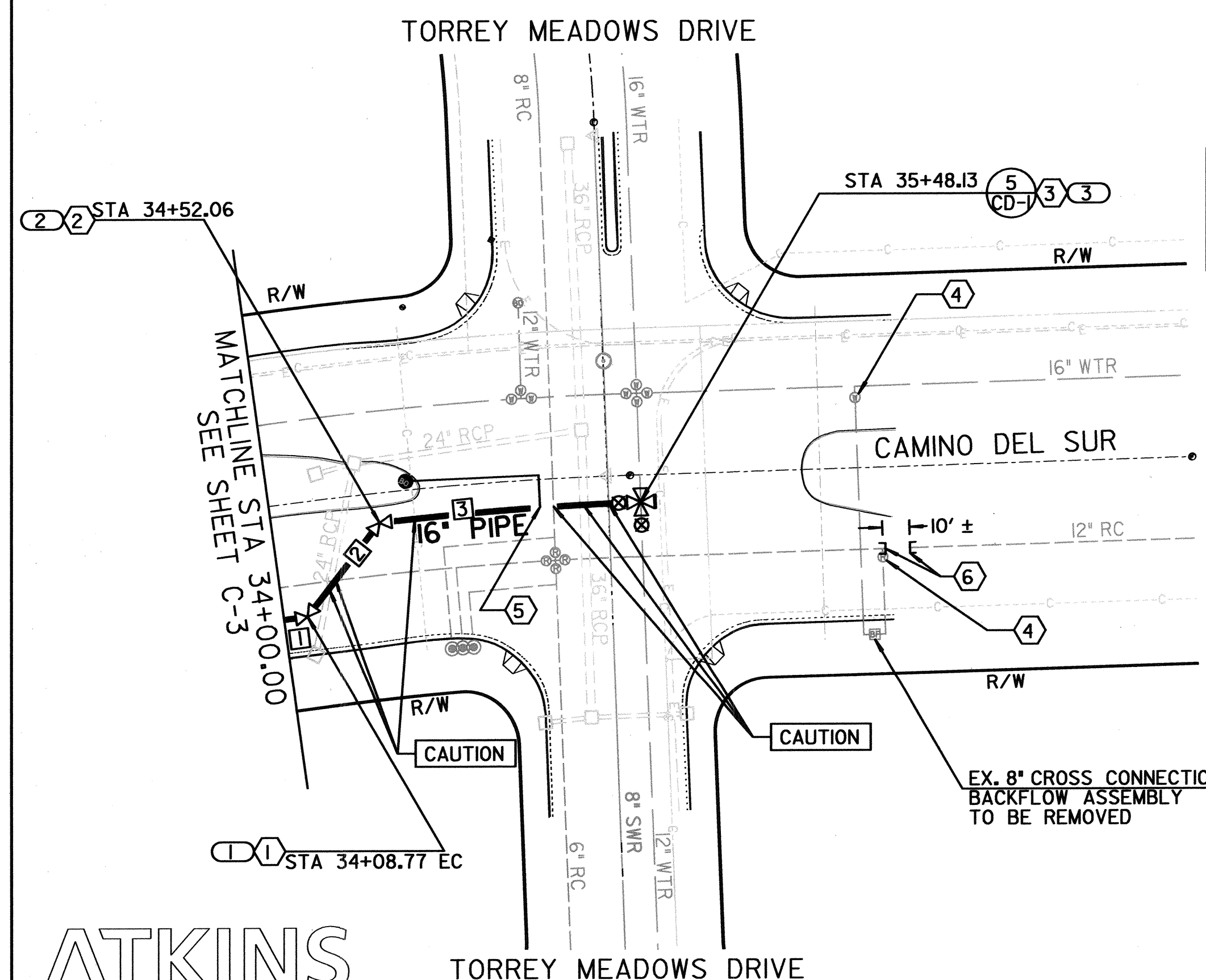
STATE REPRESENTATIVE \_\_\_\_\_ DATE \_\_\_\_\_

- ⑦ BY CONTRACTOR FURNISH AND INSTALL  
STA 1+00.00 = STA 21+03.78 PER DWG 31958  
REMOVE EX BLIND FLANGE  
AND 4" BO. CONNECT TO  
EX 24" STL RC PER STD DETAIL SDW-139
- ⑧ BY CONTRACTOR FURNISH AND INSTALL  
STA 1+90.63  
1- 24" 90° WELDED STL ELBOW  
L= 88' 19"
- ⑨ BY CONTRACTOR FURNISH AND INSTALL  
STA 2+03.16  
STRAIGHT IN CONNECTION  
REMOVE EX PIPE AND BO TO VALVE  
REMOVE ALL BONDING WIRES  
CONNECT TO EX 24" FLG VALVE  
INSTALL INSULATING FLANGE KIT AND  
4-WIRE TEST STATION PER CP-1
- ⑩ BY CONTRACTOR FURNISH AND INSTALL  
SLOPE PROTECTION/CUTOFF WALL  
PER DETAIL 3 SHEET CD-1

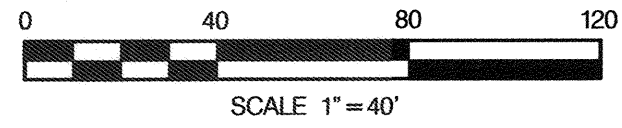
NO.	Δ/BEARING	RADIUS	LENGTH	REMARKS
4	N 28° 25' 02" E	-	90.63'	24" CML&TW
5	N 59° 53' 58" W	-	12.53'	24" CML&TW

NO.	NORTHING	EASTING	DESCRIPTION
1	1931298.43	6285217.19	HPI 45° BEND
2	1931341.10	6285224.46	HPI 45° BEND
3	1931392.44	6285305.64	16" CROSS
4	1931156.38	6282255.67	BEGIN 24" RW
5	1931236.09	6282298.79	HPI 90° BEND
6	1931242.37	6282287.96	END 24" RW

NOTE:  
 PRIOR TO FINAL CONNECTION TO EX 24"  
 RECYCLED WATER, THE ENTIRE PIPELINE  
 BETWEEN CALTRANS ROW AND THE  
 INTERSECTION OF TORREY MEADOWS DRIVE  
 AND CAMINO DEL SUR MUST SUCCESSFULLY  
 PASS A CROSS-CONNECT TEST. TESTING  
 AND FINAL CONNECTION SHALL BE  
 COMPLETED WITHIN 3 DAYS FOLLOWING  
 REMOVAL OF BACKFLOW PREVENTORS.  
 CITY TO CONDUCT CROSS-CONNECTION TEST.



- NOTES:
- REMOVE EXISTING ICEPLANT AS NECESSARY FOR WORK. REPLACE ICEPLANT UPON COMPLETION OF WORK.
  - REMOVE AND REPLACE EX. CHAIN LINK FENCE AS NECESSARY TO COMPLETE WORK.
  - BIKE PATH TO REMAIN OPERATIONAL AT ALL TIMES.



**CAMINO DEL SUR RECYCLED WATER CONVERSION**

CAMINO DEL SUR  
 STA 34+00.00 TO TORREY MEADOWS DRIVE  
 STA 1+00.00 TO 2+03.16 CALTRANS R-O-W

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 5 OF 13 SHEETS		WATER WBS: <b>BIO200</b> SEWER WBS: _____
APPROVED BY: <b>Hoke Agor</b> FOR CITY ENGINEER	DATE: <b>9.20.12</b>	DESIGNED BY: <b>JOHN STOHR</b> ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	BY: ATKINS	APPROVED: _____
DATE: _____	DATE: _____	FILED: _____
PROJECT ENGINEER: <b>290-1719</b> No. CS7649 Exp. 12/31/13		COORDINATE: <b>VARIES</b>
CONTRACTOR: _____		COORDINATE: <b>36608-5-D</b>
DATE STARTED: _____		DATE COMPLETED: _____

**ATKINS**  
 3570 CARMEL MOUNTAIN ROAD  
 SUITE 300  
 SAN DIEGO CA, 92130  
 (858) 874-1810



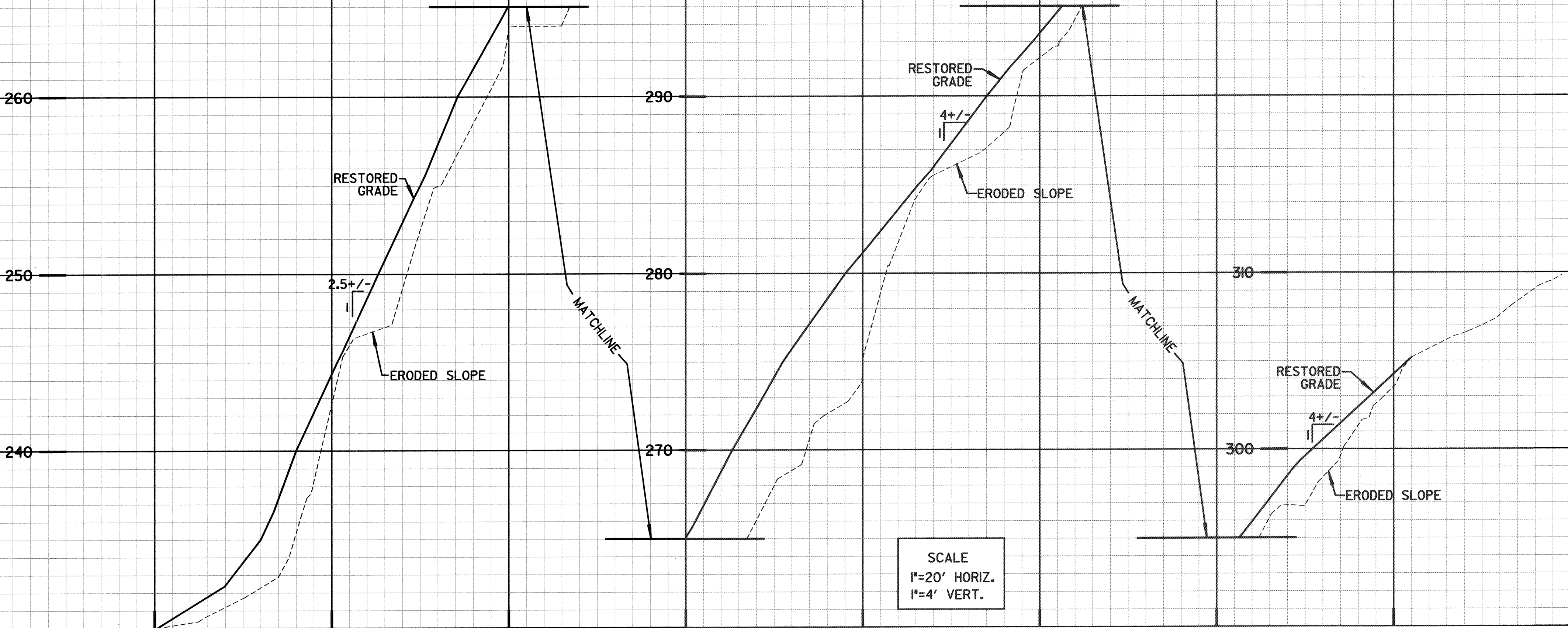
CAMINO DEL SUR RECYCLED WATER CONVERSION

CONSTRUCTION NOTES

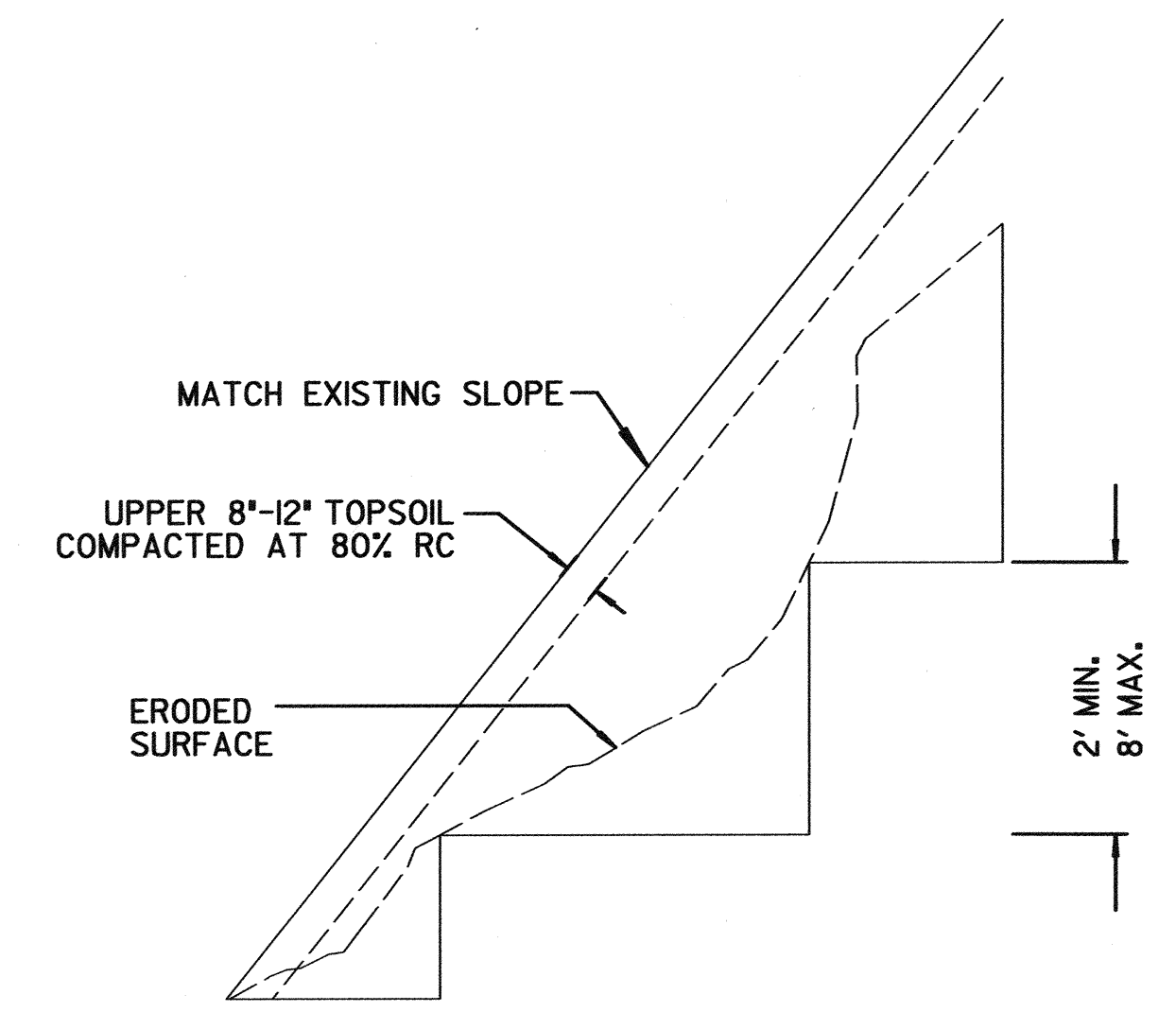
- 1 PLACE CONSTRUCTION FENCING PER SECTION 800-L4.
- 2 REMOVE AND REPLACE TYPE A DITCH PER SDRSD D-75.
- 3 FULL CONCRETE ENCASEMENT PER SDRSD SP-03 (2-SACK MIX)
- 4 REMOVE AND REPLACE CUTOFF WALL PER DETAIL 3 SHT CD-1
- 5 EXISTING CHAIN LINK FENCE PROTECT IN PLACE.
- 6 EXISTING CUTOFF WALL PROTECT IN PLACE.
- 7 EXISTING HEADWALL PROTECT IN PLACE.
- 8 EXISTING 18" CMP STORM DRAIN PROTECT IN PLACE.
- 9 EXISTING 24" STL RECYCLED WATER PIPELINE PROTECT IN PLACE.

PERMIT NUMBER II-12-NUX-0126  
 CO SD RTE 56 PM 6.07  
 AS-BUILT PLANS FOR ROADWAY GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE DATE



SCALE  
 1"=20' HORIZ.  
 1"=4' VERT.



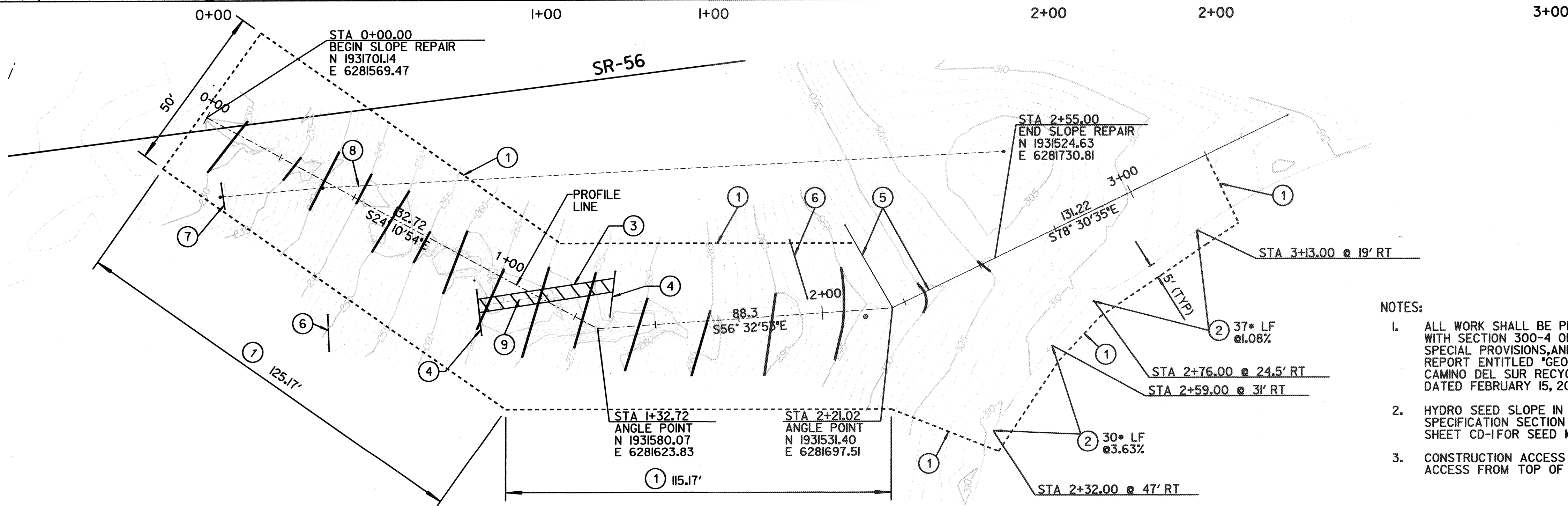
BENCHING DETAIL  
 N.T.S.

NOTES:

1. BENCHES SHALL EXTEND A MIN. OF 2' INTO UNDISTURBED SOIL ON EITHER SIDE
2. REMOVE AND STOCKPILE TOPSOIL.
3. BENCH INTO EXISTING SLOPE AS NECESSARY TO REMOVE ERODED SOILS TO COMPETENT MATERIAL.
4. BENCHING IS NOT REQUIRED FOR GROUND SLOPED AT 1:4 OR FLATTER.
5. EMBANKMENT BENCHING WILL NOT BE MEASURED FOR PAYMENT.

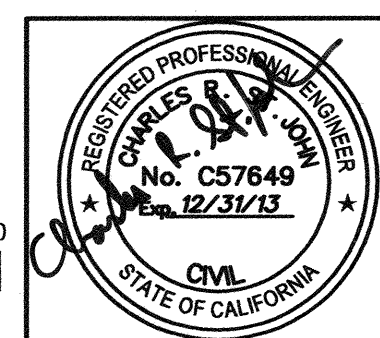
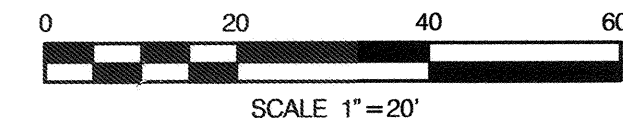
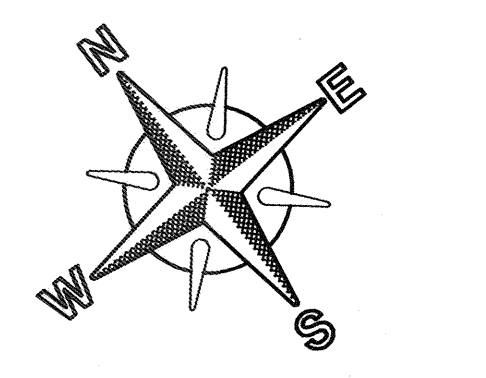
NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 300-4 OF THE SSPWC, THE SPECIAL PROVISIONS, AND THE GEOTECHNICAL REPORT ENTITLED 'GEOTECHNICAL EVALUATION - CAMINO DEL SUR RECYCLED WATER CONVERSION' DATED FEBRUARY 15, 2012.
2. HYDRO SEED SLOPE IN ACCORDANCE WITH SPECIFICATION SECTION 800-2.8. SEE SHEET CD-1 FOR SEED MIX.
3. CONSTRUCTION ACCESS FROM CANYON. NO ACCESS FROM TOP OF SLOPE.



REFERENCE:  
 WATER: 31401-6-D  
 SEWER: N/A  
 STORM DRAIN: N/A  
 GAS: N/A  
 ELECTRIC: N/A  
 CABLE TV: N/A  
 TELEPHONE: N/A  
 IMPROVEMENTS: N/A  
 100' SCALE/FIELD BOOK: GO2N  
 THOMAS BROS.: 1189-A4  
 HGL: 640

REFERENCES:  
 CITY OF SAN DIEGO PRELIMINARY SURVEY FIELD NOTES;  
 BASIS OF BEARINGS/COORDINATES:  
 THE BASIS OF BEARINGS FOR THIS PROJECT WAS DERIVED FROM A PREVIOUS STATIC GPS SURVEY USING GPS I7 AND GPS 200 AS SHOWN ON R.O.F S.14492 I.E. N 05° 32' 20" E, NAD 83 FEET, ZONE 6(EPOCH 9L35), UTILIZING RTK/GPS FIELD PROCEDURES WITH A CALVRS BASE STATION LOCATED AT KMSA, CONSTRAINING TO GPS I7 AND GPS 200.  
 BENCH:  
 SEBP CARMEL MOUNTAIN RD AND TWIN TRAILS ELEV. 489.067 MSL, BASED ON NGVD 29 FEET AS SHOWN IN THE CITY OF SAN DIEGO BENCH BOOK.



CAMINO DEL SUR RECYCLED WATER CONVERSION			
SLOPE REPAIR			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 6 OF 13 SHEETS		WATER WBS: BIO200 SEWER WBS:	
APPROVED: <i>Heidi Agar</i> FOR CITY ENGINEER		DATE: 9.20.12 ASSOCIATE ENGINEER	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	ATKINS		
CONTRACTOR		DATE STARTED	DATE COMPLETED
			36608-6-D

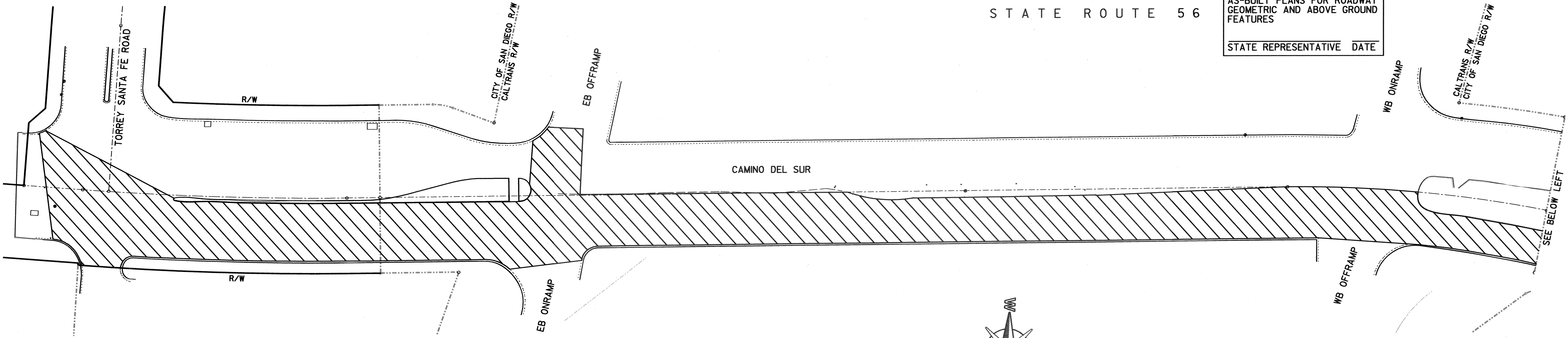
**ATKINS**  
 3570 CARMEL MOUNTAIN ROAD  
 SUITE 300  
 SAN DIEGO CA, 92130  
 (858) 874-1810

C-5



PERMIT NUMBER II-12-NUX-0126  
 CO SD RTE 56 PM 6.07  
 AS-BUILT PLANS FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND  
 FEATURES  
 STATE REPRESENTATIVE DATE

STATE ROUTE 56

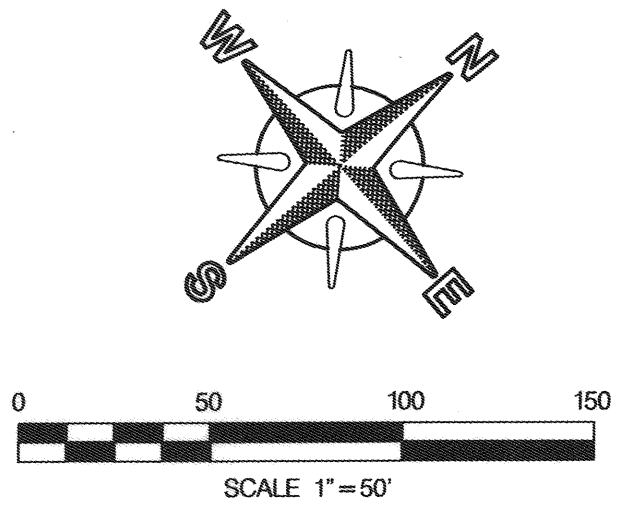
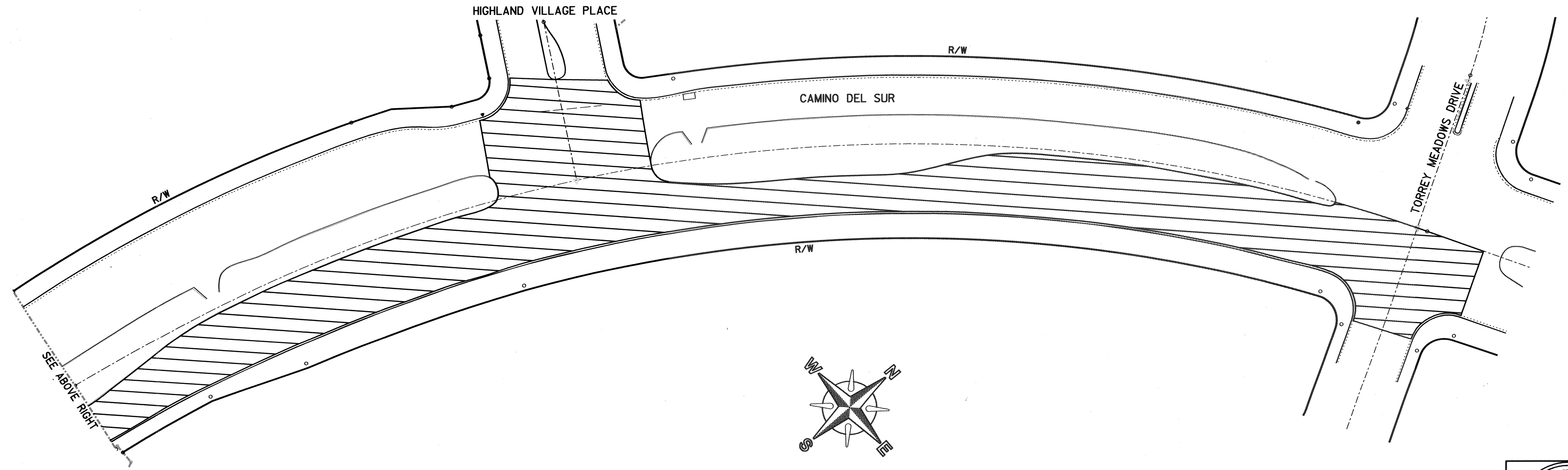
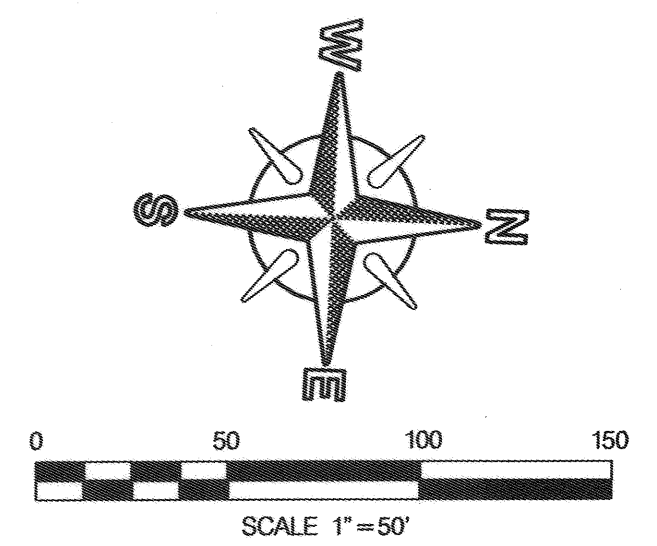


PAVING SCHEDULE

RESTORATION METHOD	WIDTH	APPROX. AREA (SF)
SLURRY SEAL	VARIES	129,309
TOTAL AREA OF SLURRY SEAL		129,309



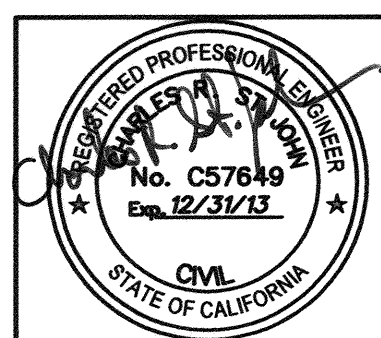
- NOTES:
1. PREPARATION AND APPROVAL OF TRAFFIC CONTROL PLANS NECESSARY FOR THE CONSTRUCTION OF SLURRY SEAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR (SEE SPECIFICATIONS).
  2. SEE SPECIFICATIONS FOR SPECIAL PROVISIONS.
  3. UTILITY AND MANHOLE COVERS NOT TO BE SLURRY SEALED.
  4. TRAFFIC STRIPING TO BE REPLACED IN KIND.



C-6

**CAMINO DEL SUR  
 RECYCLED WATER CONVERSION  
 STREET RESURFACING PLAN**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 7 OF 13 SHEETS		WATER WBS <b>BIO200</b> SEWER WBS
APPROVED FOR CITY ENGINEER <i>Heidi Agor</i>	DATE <b>9.20.12</b>	DESIGNED BY <b>JOHN STOHR</b> ASSOCIATE ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	ATKINS	
		DATE
		FILMED
		PROJECT ENGINEER
		<b>VARIES</b> CCS27 COORDINATE
		<b>VARIES</b> CCS83 COORDINATE
CONTRACTOR	DATE STARTED	<b>36608-7-D</b>
INSPECTOR	DATE COMPLETED	



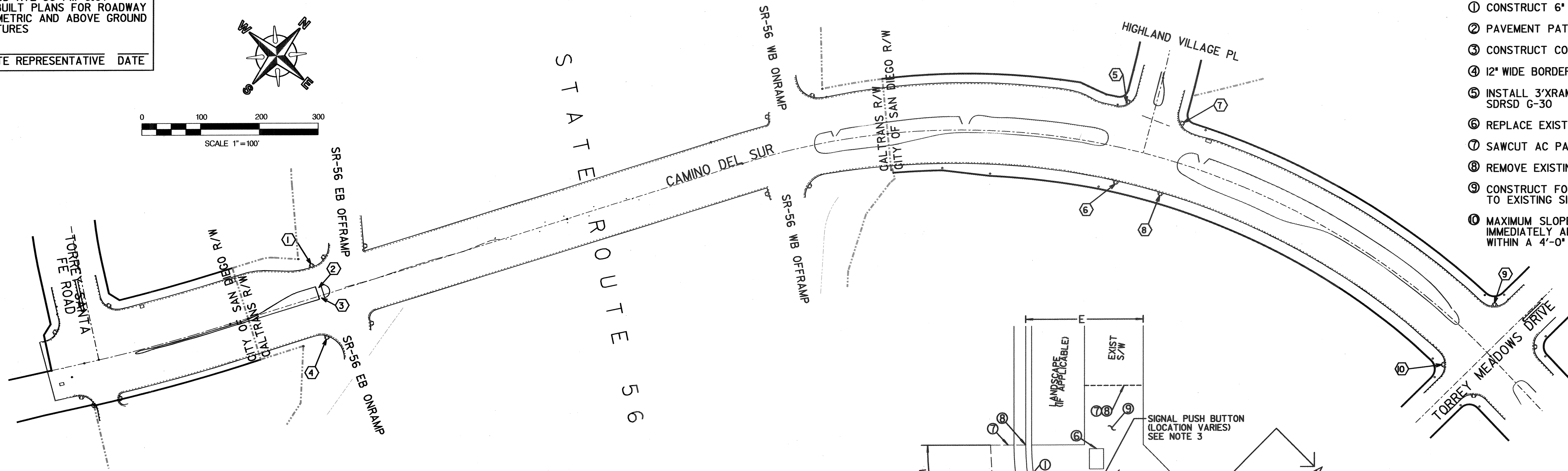
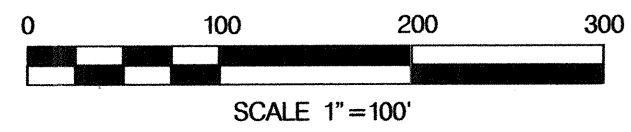
**ATKINS**  
 3570 CARMEL MOUNTAIN ROAD  
 SUITE 300  
 SAN DIEGO, CA, 92130  
 (858) 874-1810

CAMINO DEL SUR RECYCLED WATER CONVERSION



PERMIT NUMBER II-12-NUX-0126  
 CO SD RTE 56 PM 6.07  
 AS-BUILT PLANS FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND  
 FEATURES

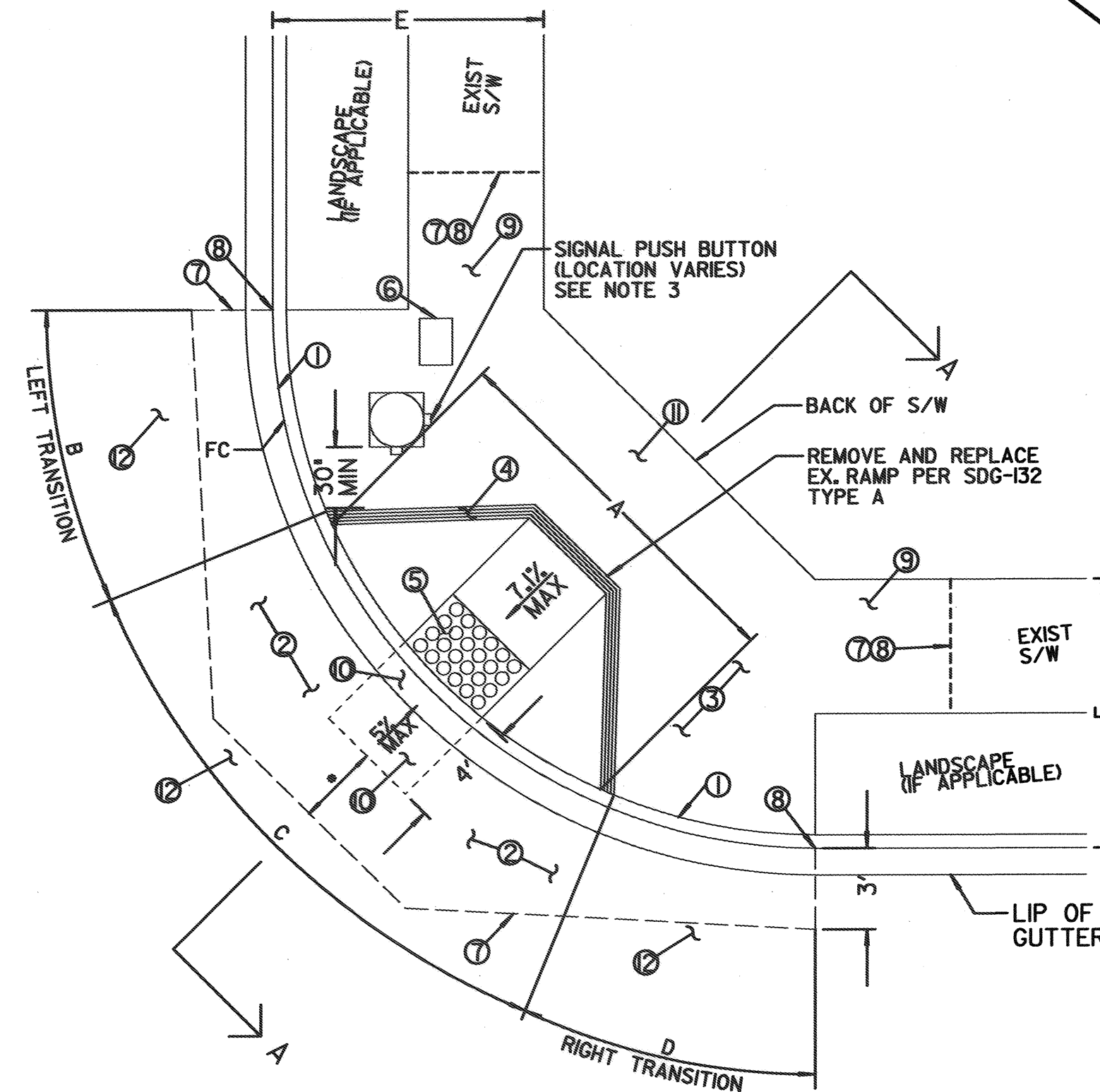
STATE REPRESENTATIVE DATE



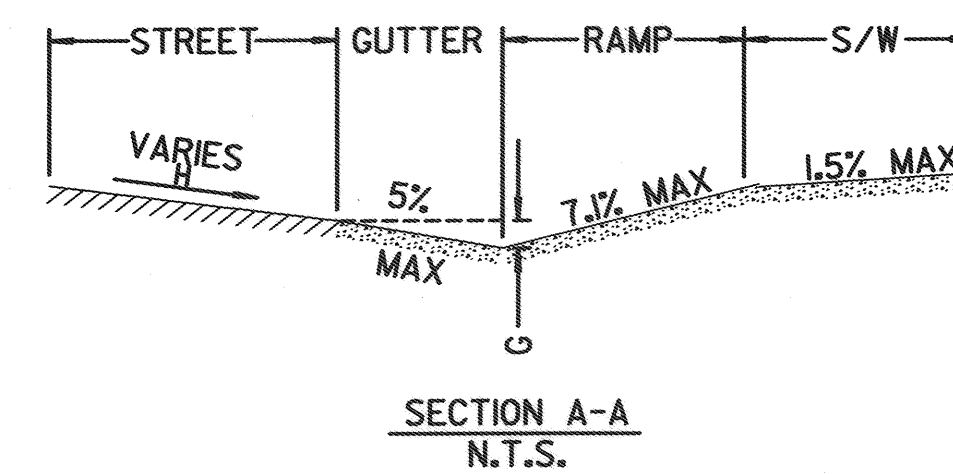
- NOTES:**
- ① CONSTRUCT 6" CURB AND GUTTER PER SDRSD G-2
  - ② PAVEMENT PATCH (FULL DEPTH AC)
  - ③ CONSTRUCT CONCRETE SIDEWALK PER SDRSD G-7
  - ④ 12" WIDE BORDER PER SDRSD G-32
  - ⑤ INSTALL 3' X RAMP WIDTH DETECTABLE/TACTILE WARNING PANEL PER SDRSD G-30
  - ⑥ REPLACE EXISTING PULL BOX AND ADJUST TO NEW FINISH GRADE
  - ⑦ SAWCUT AC PAVEMENT AND CONC. A MINIMUM OF 4"
  - ⑧ REMOVE EXISTING CURB & GUTTER OR SIDEWALK AT NEAREST JOINT
  - ⑨ CONSTRUCT FOUR FOOT TRANSITION PANEL TO TRANSITION FROM 1.7% TO EXISTING SIDEWALK CROSS SLOPE
  - ⑩ MAXIMUM SLOPE OF ADJOINING GUTTER PAN AND AC ROAD SURFACE IMMEDIATELY ADJACENT TO BOTTOM RAMP SHALL NOT EXCEED 5% WITHIN A 4'-0" AREA OF BOTTOM LANDING
- ⑪ TOP LANDING SHALL NOT SLOPE MORE THAN 1.5% IN BOTH DIRECTIONS
- ⑫ 2" GRIND AND OVERLAY WITHIN TRANSITION AREA

LOCATION	RAMP TYPE	DIMENSIONS							SLOPE	NOTES
		A (FT)	B (FT)	C (FT)	D (FT)	E (FT)	F (FT)	G (IN)		
①	A	10.75	6.67	13	12.25	9.83	11.5	2.5	1.3	PROVIDE 32"x32" CONCRETE PAD ADJACENT TO SIGNAL PUSH BUTTON
②	N/A									PROVIDE 3' WIDE BY 10' LONG DETECTABLE WARNING TILE
③	N/A									PROVIDE 3' WIDE BY 10' LONG DETECTABLE WARNING TILE
④	A	14.5	15.17	17.17	10.17	9.08	10.0	4.0	4.0	
⑤	A	11.17		18.0	13.75	13.0	15.17	1.25	0	LEFT TRANSITION TO OCCUR OVER RAMP GUTTER
⑥	B	8.58	10.75	13.58	8.83	20.0	20.0	2.38	2.7	
⑦	A	9.83	7.85	17.42	7.83	15.42	15.5	1.75	0.2	
⑧	B	10.17	13.0	17.17		20.0	20.0	3.0	3.7	
⑨	A	7.67	14.75	15.75	14.5	15.0	15.0	1.75	1.3	
⑩	A	6.25	17.17	15.92	15.5	13.83	20.0	1.5	1.0	

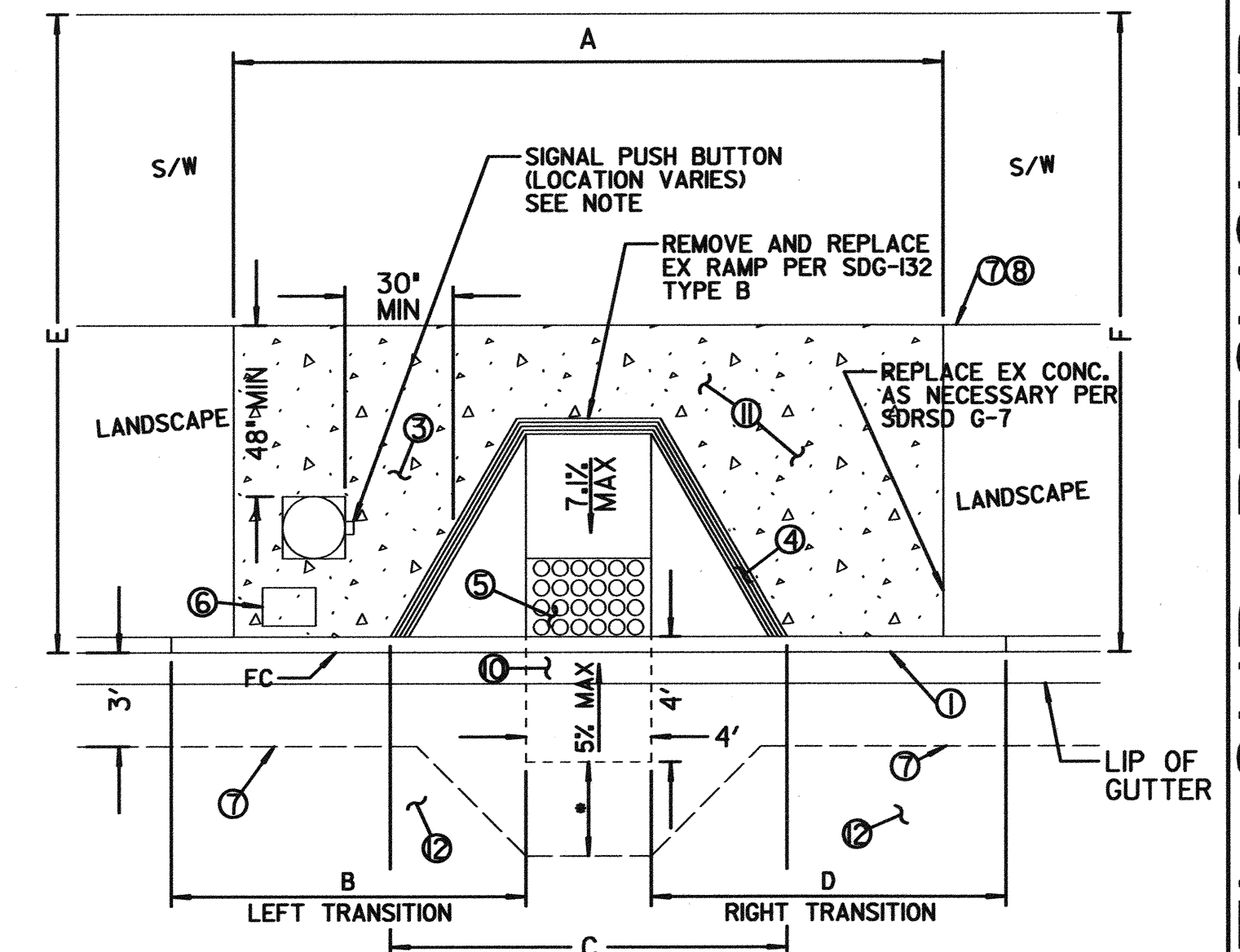
- NOTES:**
1. DIMENSIONS SHOWN ARE THE EXISTING RAMP CONFIGURATIONS FOR QUANTITY TAKE-OFF PURPOSES. THE CONTRACTOR IS REQUIRED TO REMOVE AND REPLACE EXISTING RAMPS TO COMPLY WITH THE STANDARDS SPECIFIED.
  2. DIMENSION 'A' IS AT TOP OF RAMP WHERE A WEAKENED PLANE JOINT EXISTS, OTHERWISE DIMENSION IS AT BACK OF WALK BETWEEN TRANSVERSE WEAKENED PLANE JOINTS.
  3. DIMENSION 'B' AND 'C' ARE THE LENGTHS OF CURB AND GUTTER TO BE REMOVED AND REPLACED FOR GUTTER TRANSITIONS.
  4. DIMENSION 'G' IS THE EXISTING DISTANCE FROM THE GUTTER FLOWLINE TO A PLANE ALONG THE STREET SURFACE AT THE MIDDLE OF THE EXISTING RAMP.
  5. 'H' IS THE SLOPE OF THE STREET SURFACE PERPENDICULAR TO THE RAMP.
  6. REMOVE EXIST CURB, GUTTER, SIDEWALK AND PAVEMENT PER SDRSD G-11 AS REQUIRED TO CONSTRUCT THE NEW PEDESTRIAN RAMP IN CONFORMANCE WITH STANDARD DRAWINGS AS SPECIFIED ON THE PLANS.
  7. ASPHALT PAVEMENT REMOVED FOR INSTALLATION OF CURB, GUTTER AND PEDESTRIAN RAMPS SHALL BE REPLACED WITH FULL DEPTH ASPHALT COMPACTED TO 95% PER SDG-113.
  8. REPLACE CURB AND GUTTER PER SDRSD G-2 AND IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
  9. REPLACE ALL TRAFFIC STRIPING AND MARKINGS FOLLOWING SLURRY SEAL.
  10. CURB RAMP LAYOUT AND FORMS SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
  11. DETECTABLE WARNING TILES (DWT) SHALL BE PER SDG-130.
  12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY SURVEY MONUMENT WHICH WILL BE DISTURBED OR DESTROYED BY CONSTRUCTION IN ACCORDANCE WITH THE LAND SURVEYORS' ACT.
  13. IF ANY VERTICAL CONTROL MONUMENT IS TO BE DISTURBED OR DESTROYED, THE CONTRACTOR SHALL NOTIFY THE CITY OF SAN DIEGO FIELD SURVEY SECTION IN WRITING A MINIMUM OF 3 DAYS PRIOR TO THE REMOVAL OR DISTURBANCE OF THE MONUMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
  14. THE CONTRACTOR SHALL MAINTAIN ALL GUTTER FLOWLINES UNLESS NOTED OTHERWISE ON THE PLANS.
  15. THE CONTRACTOR SHALL PROVIDE A MINIMUM 30' X 48" CONCRETE LEVEL PAD (MAX 1.5% SLOPE IN EACH DIRECTION) ADJACENT TO EACH PUSH-BUTTON SIGNAL ACTUATOR AS NECESSARY.
  16. THE CONTRACTOR SHALL REMOVE AND REPLACE THE EXIST ASPHALT PAVEMENT AS REQUIRED TO PROVIDE A SMOOTH TRANSITION (8% MAX) FROM THE EXISTING PAVEMENT TO THE 4'X4' AREA AT THE BOTTOM OF THE RAMP WHICH SHALL BE 5% MAX SLOPE PER THE STANDARD DETAILS.
  17. THE CONTRACTOR SHALL ADJUST TO FINISH GRADE AS NECESSARY ANY ELECTRICAL BOX, VALVE COVER OR OTHER UTILITY APPURTENANCE PRIOR TO PLACEMENT OF CONCRETE.



① TYPE A CURB RAMP REPLACEMENT  
 NOT TO SCALE  
 \* TRANSITION TO EX PAVEMENT (5% MAX)

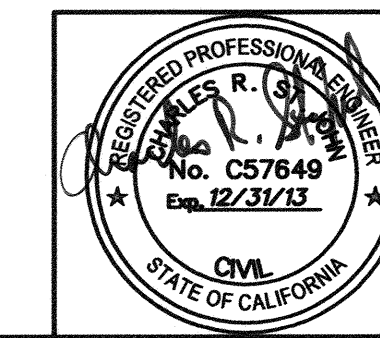


- NOTES:**
1. ACTUAL CONFIGURATIONS MAY VARY.
  2. TRANSITION DIMENSIONS ARE MEASURED ALONG THE FACE OF CURB.
  3. ADJUST PUSH BUTTON SIGNAL ACTUATORS AS NECESSARY FOR A MAX HEIGHT OF 48" ABOVE FINISH SURFACE.
  4. A MIN. 30'X48" PCC LEVEL LANDING (1.5% MAX SLOPE) IS REQUIRED AT PUSH BUTTON LOCATIONS.



② TYPE B CURB RAMP REPLACEMENT  
 NOT TO SCALE  
 \* TRANSITION TO EX PAVEMENT (5% MAX)

**ATKINS**  
 3570 CARMEL MOUNTAIN ROAD  
 SUITE 300  
 SAN DIEGO CA, 92130  
 (858) 874-1810



**CAMINO DEL SUR  
 RECYCLED WATER CONVERSION**

CURB RAMP LOCATIONS

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 8 OF 13 SHEETS		WATER WBS: BI0200 SEWER WBS: _____
APPROVED BY: <i>John Stoehr</i> FOR CITY ENGINEER	DATE: 9.20.12	APPROVED BY: JOHN STOHR ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	BY: ATKINS	DATE: _____
APPROVED: _____	DATE: _____	FILED: _____
CONTRACTOR: _____	DATE STARTED: _____	DATE COMPLETED: _____
INSPECTOR: _____	DATE STARTED: _____	DATE COMPLETED: _____

PROJECT ENGINEER: VARIES  
 CC527 COORDINATE  
 VARIES  
 CC583 COORDINATE  
 36608-8-D

CAMINO DEL SUR RECYCLED WATER CONVERSION

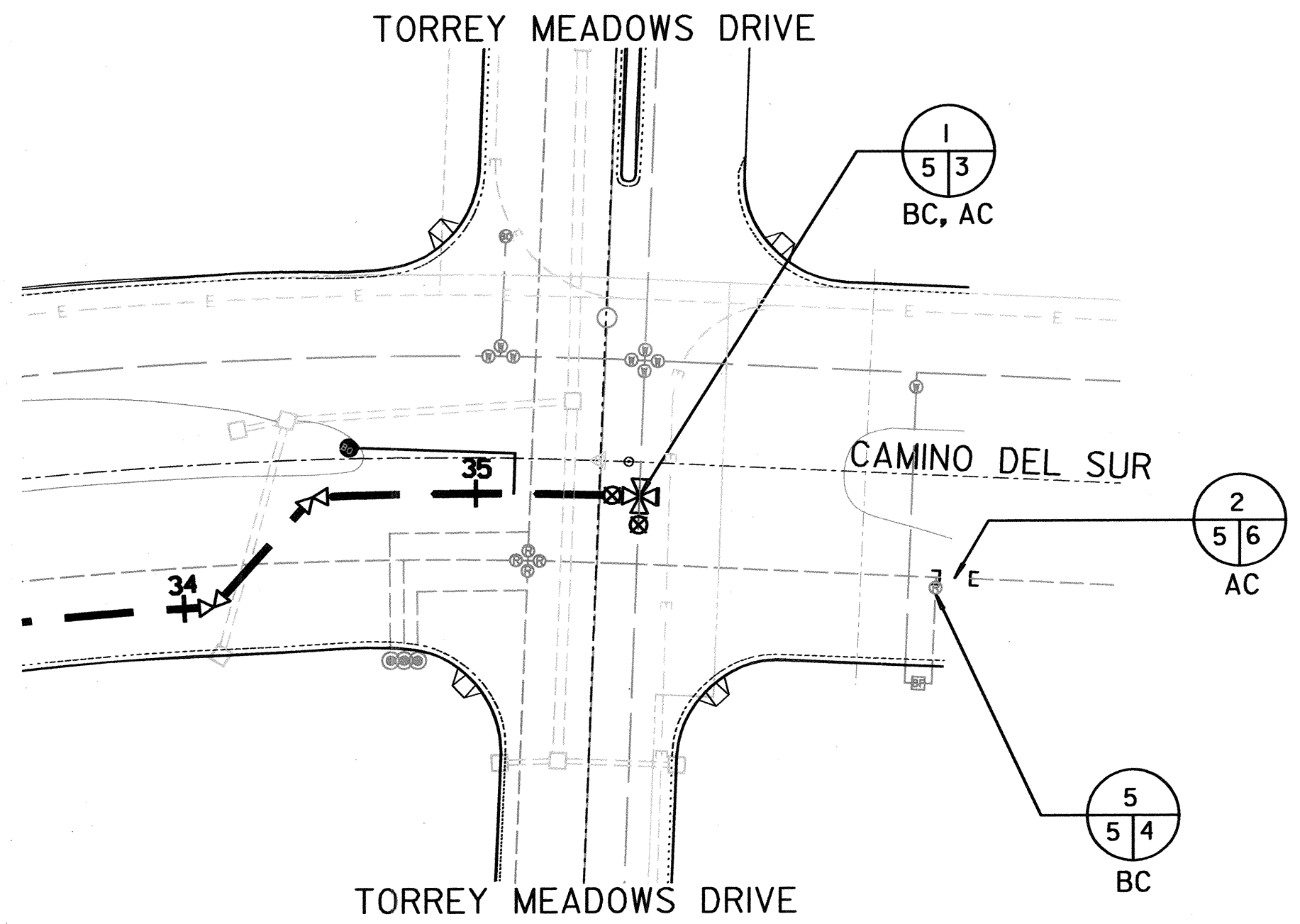
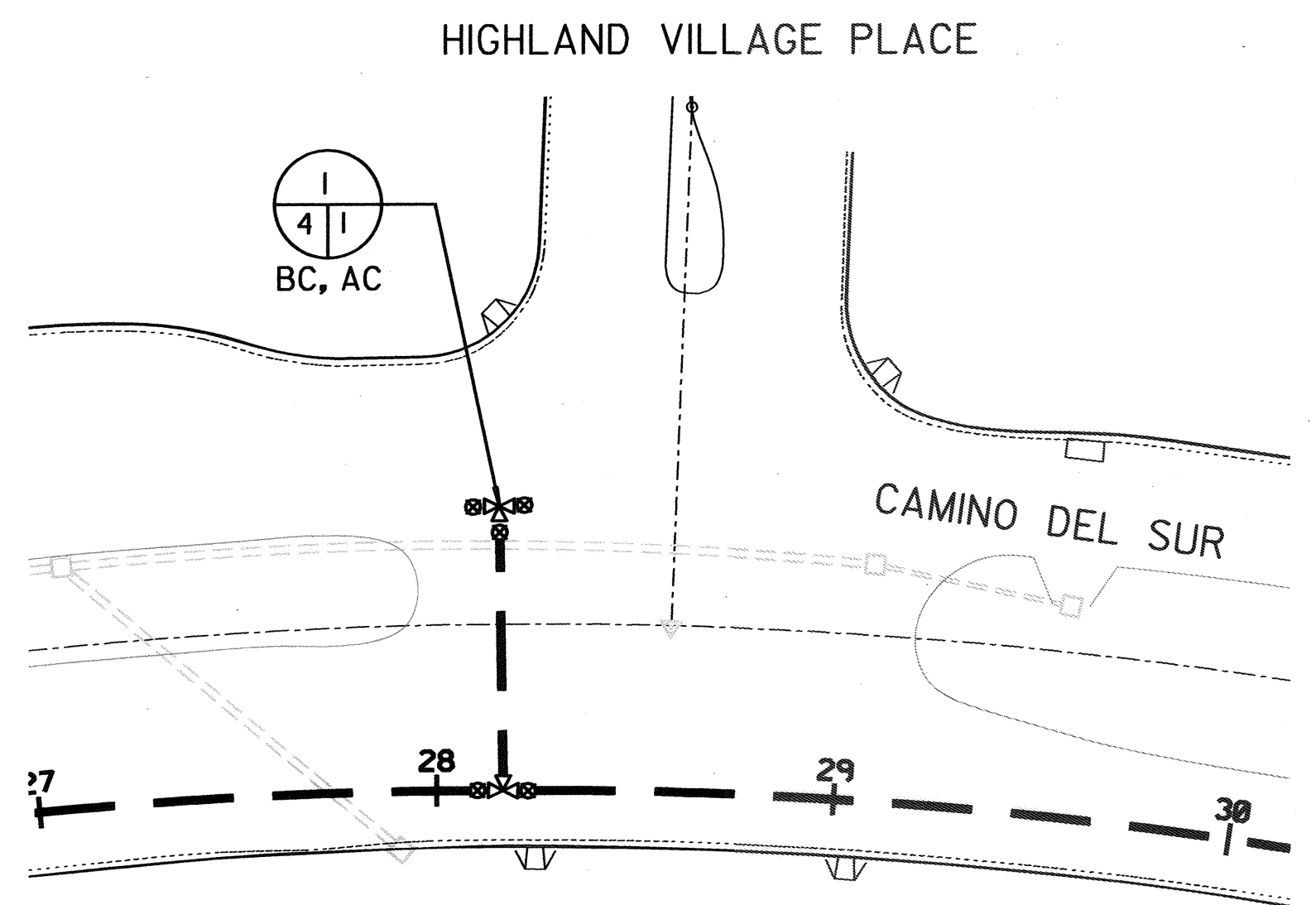
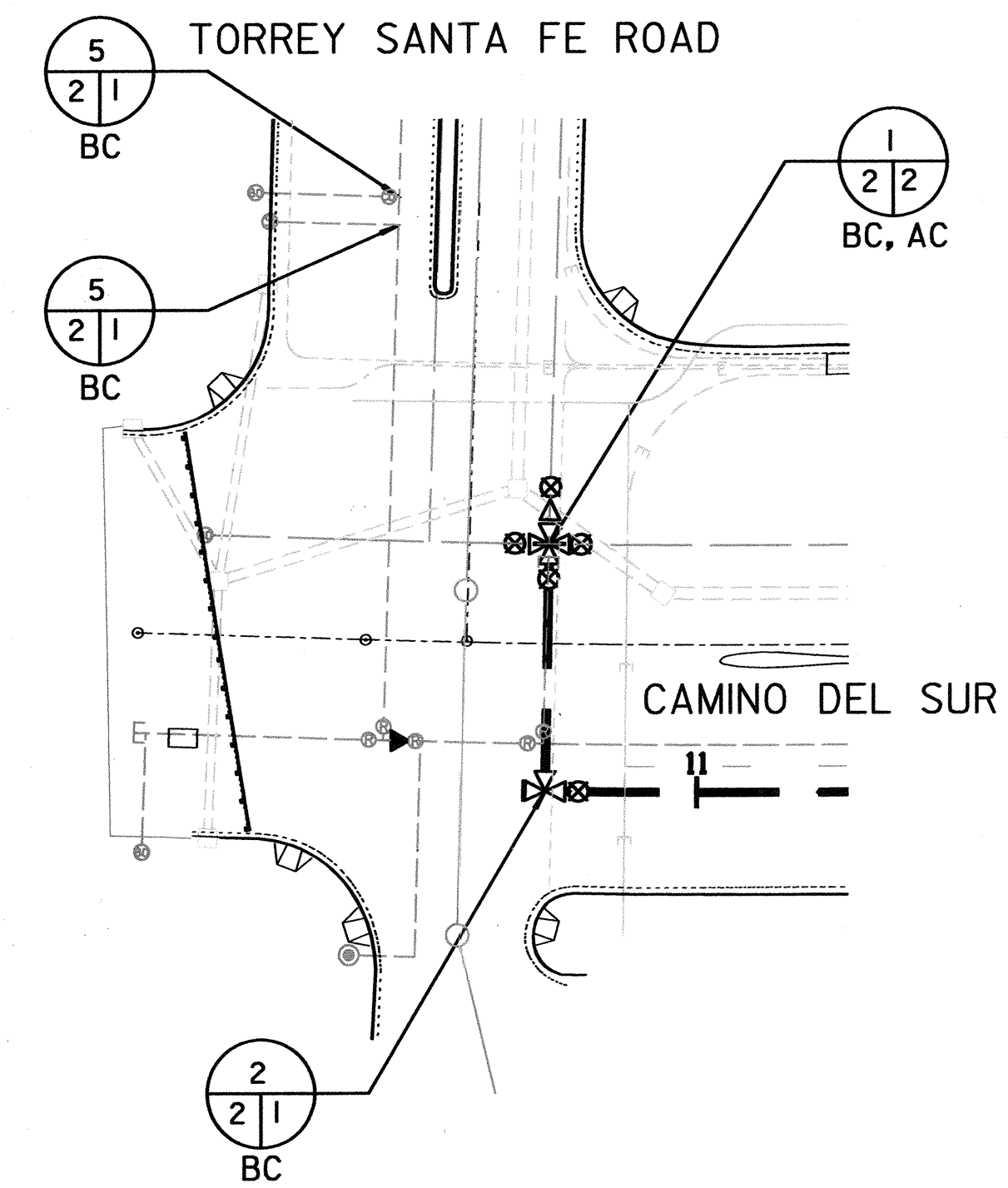
C-7



CONTRACTOR FURNISHED MATERIALS FOR CITY FORCE WORK								
SHT	12" GATE VALVE	16" BUTTERFLY VALVE	16" CROSS	16" X 12" REDUCER	16" TEE	16" X 12" CROSS	16" BLIND FLANGE	12" RC PIPE
C-1	1	3	1	1				
C-3		3			1			
C-4	1	1				1	1	10'

# WORK BY CITY FORCES

PERMIT NUMBER II-12-NUX-0126  
 CO SD RTE 56 PM 6.07  
 AS-BUILT PLANS FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND  
 FEATURES  
 STATE REPRESENTATIVE DATE



**LEGEND**

--- EXISTING WATER MAIN  
 --- PROPOSED WATER MAIN

③ CITY FORCES NOTE NUMBER (THIS SHEET)  
 ②④⑥ CITY FORCES NOTE NUMBER (PLAN & PROFILE SHT.)  
 --- PLAN & PROFILE "D" SHEET NUMBER

BC --- BEFORE CONTRACTOR  
 AC --- AFTER CONTRACTOR

**WORK BY CITY FORCES**

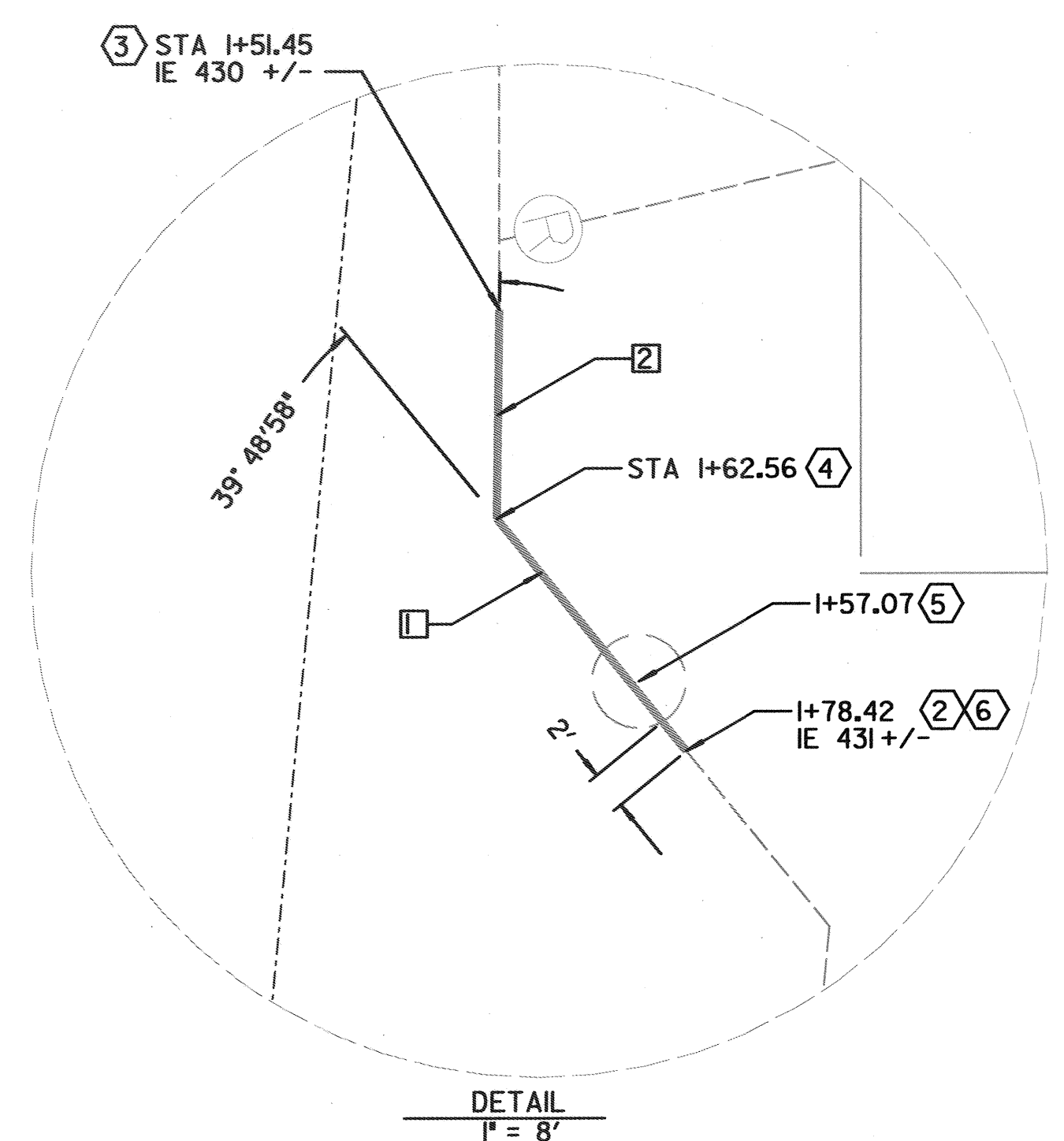
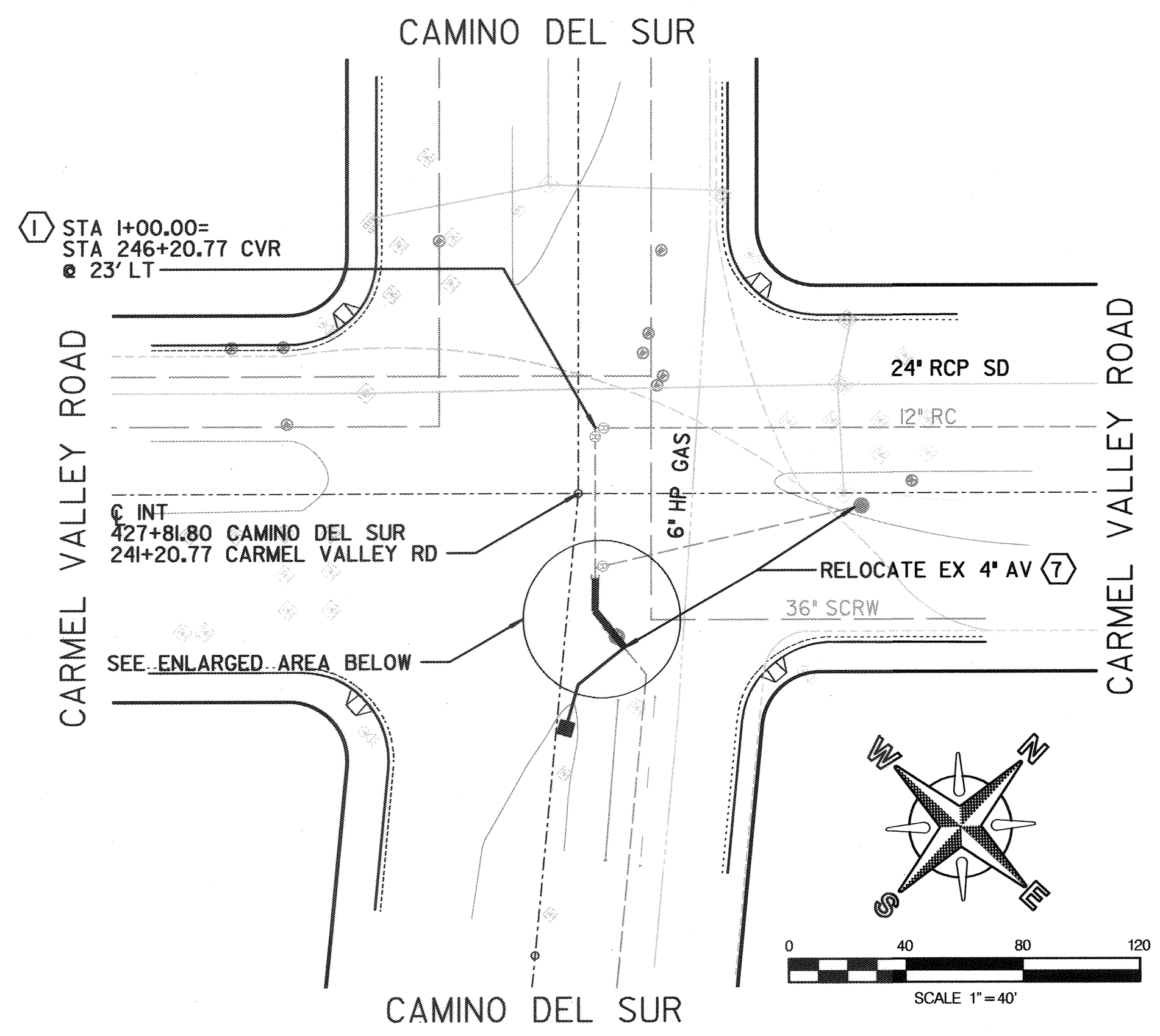
① BC - TEE/CROSS CUT-IN, OPEN/CLOSE VALVE(S)  
 AC - RECONNECT. OPEN VALVE(S)

② BC - CUT & PLUG  
 AC - RECONNECT

③ BC - CUT AND ABANDON

④ AC - WET TAP

⑤ BC - CLOSE EX. VALVE (REPLACE IF NEEDED)  
 AC - OPEN EX. VALVE

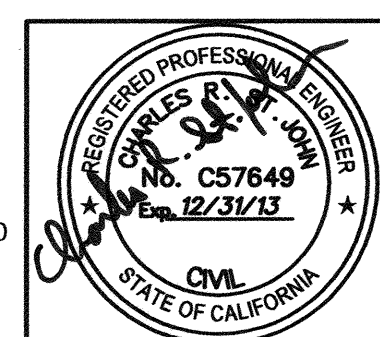
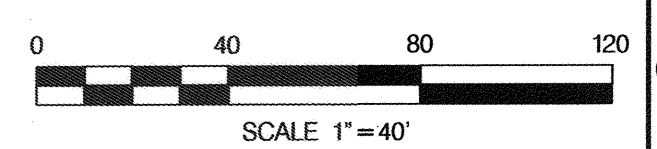


- ① BY CITY FORCES  
 STA 1+00.00  
 CLOSE 12" GV, AHD  
 OPEN AFTER NEW MAIN  
 HAS BEEN INSTALLED
- ② BY CITY FORCES  
 STA 1+78.42  
 TEMP CUT & PLUG
- ③ BY CITY FORCES  
 STA 1+51.45  
 REMOVE EX BO AND END CAP  
 CONNECT TO EX 12" PVC
- ④ BY CITY FORCES  
 FURNISH AND INSTALL  
 STA 1+62.56  
 INSTALL  
 1- 45° BEND (MJ X MJ)
- ⑤ BY CITY FORCES  
 STA 1+57.07  
 REMOVE EX CHECK VALVE,  
 CONCRETE VAULT, AND  
 ASSOCIATED PIPING AND  
 APPERTENANCES.
- ⑥ BY CITY FORCES  
 STA 1+78.42  
 STRAIGHT IN CONNECTION  
 TO EX 12" RW
- ⑦ BY CITY FORCES  
 STA 1+78.42  
 RELOCATE EX. 4" AV

12-INCH RECLAIMED WATER PIPE DATA				
NO.	Δ/BEARING	RADIUS	LENGTH	REMARKS
1	N 82° 04' 19" W	-	15.86'	12" PVC, CLASS 235
2	N 42° 15' 21" W	-	11.1'	12" PVC, CLASS 235

**REFERENCE:**  
 WATER: 30416-4I-D, 31414-15-D  
 SEWER: N/A  
 STORM DRAIN: 29021-16-D  
 GAS: 57A-773  
 ELECTRIC: 294-1725  
 CABLE TV: CV-071-03-A  
 TELEPHONE: R00906  
 IMPROVEMENTS: 29021-16-D, 30416-4I-D  
 100' SCALE/FIELD BOOK: H03N  
 THOMAS BROS.: 1189-B2  
 HGL: 640

- NOTES:**
- CUT EX. PVC OUTSIDE OF VAULT WALL.
  - REMOVE 48" DIAMETER RCP VAULT, CHECK VALVE, PIPING AND APPERTENANCES.
  - REMOVE THRUST BLOCK, END CAP, AND TEMP. BLOW OFF ASSEMBLY.
  - INSTALL 27 LF 12" PVC RECLAIMED WATER (PURPLE PIPE) TO CONNECT PIPELINES.



C-8

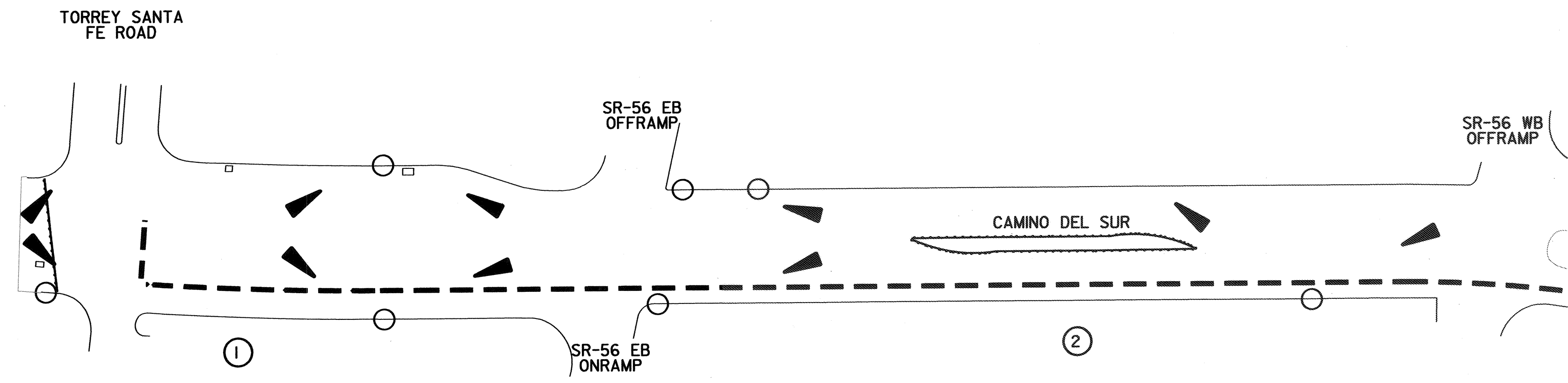
**CAMINO DEL SUR  
 RECYCLED WATER CONVERSION**

**WORK BY CITY FORCES**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 9 OF 13 SHEETS		WATER WBS: BIO200 SEWER WBS: _____
APPROVED BY: <i>Charles Ayer</i>	DATE: 9.20.12	ASSOCIATE ENGINEER: JOHN STOHR
DESCRIPTION: ORIGINAL	BY: ATKINS	APPROVED: _____
DATE: _____	APPROVED: _____	DATE: _____
FILED: _____	DATE: _____	DATE: _____
CONTRACTOR: _____	DATE STARTED: _____	36608-9-D
INSPECTOR: _____	DATE COMPLETED: _____	

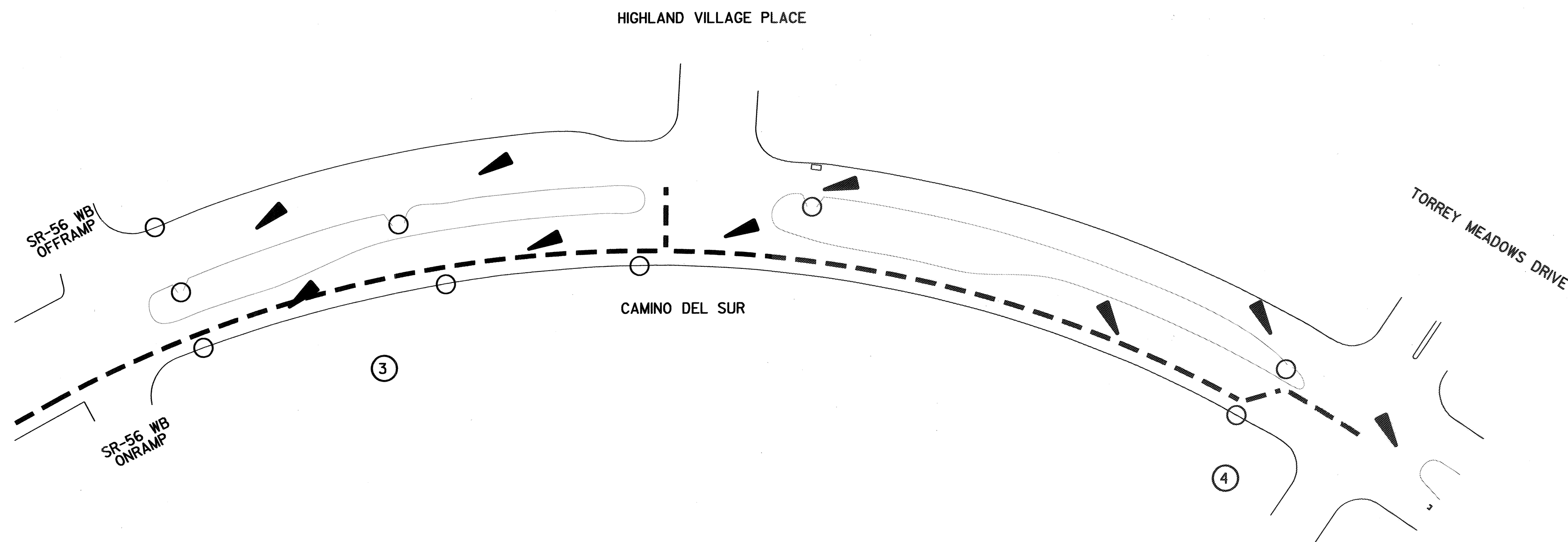


CAMINO DEL SUR RECYCLED WATER CONVERSION



NOTES:

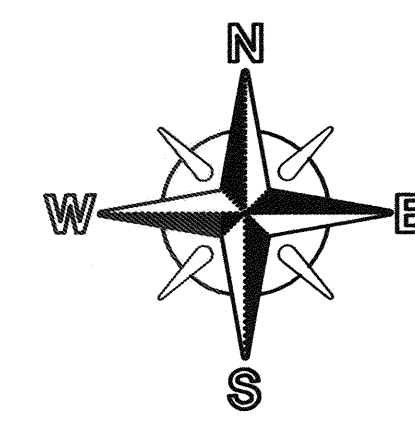
1. THE INFORMATION ON THIS SITE PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTOR TO INSTALL WATER POLLUTION CONTROL DEVICES AT GENERAL LOCATIONS THROUGHOUT THE PROJECT SITE, THIS SITE PLAN IS TO BE USED IN CONJUNCTION WITH THE NARRATIVE SECTION OF THE WATER POLLUTION CONTROL PLAN (WPCP) AND WATER POLLUTION CONTROL SPECIFICATIONS.
2. INLET PROTECTION REQUIRED AT ALL STORM DRAINS RECEIVING RUNOFF FROM DISTURBED SOIL AREAS.
3. CONTRACTOR TO UPDATE / REVISE SHEET AS NECESSARY.
4. THE INFORMATION ON THE SITE PLAN IS ACCURATE FOR WATER POLLUTION CONTROL PURPOSES ONLY.



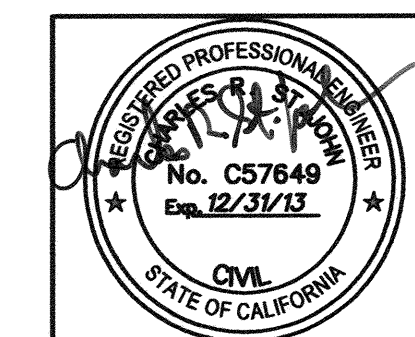
LEGEND

SURFACE FLOW TO STORM DRAIN	▲
STORM DRAINS AFFECTED BY CONSTRUCTION	○
NEW WATER MAIN	---
SHEET NO's	①
ADDITIONAL NOTES SUPPLIED BY CONTRACTOR	
STAGING/STOCKPILE AREA	X

NOTE:  
 THIS SHEET IS USED FOR PROJECTS WITH LESS THAN  
 ONE (1) ACRE IN DISTURBED SOIL AREAS.



NO SCALE



C-9

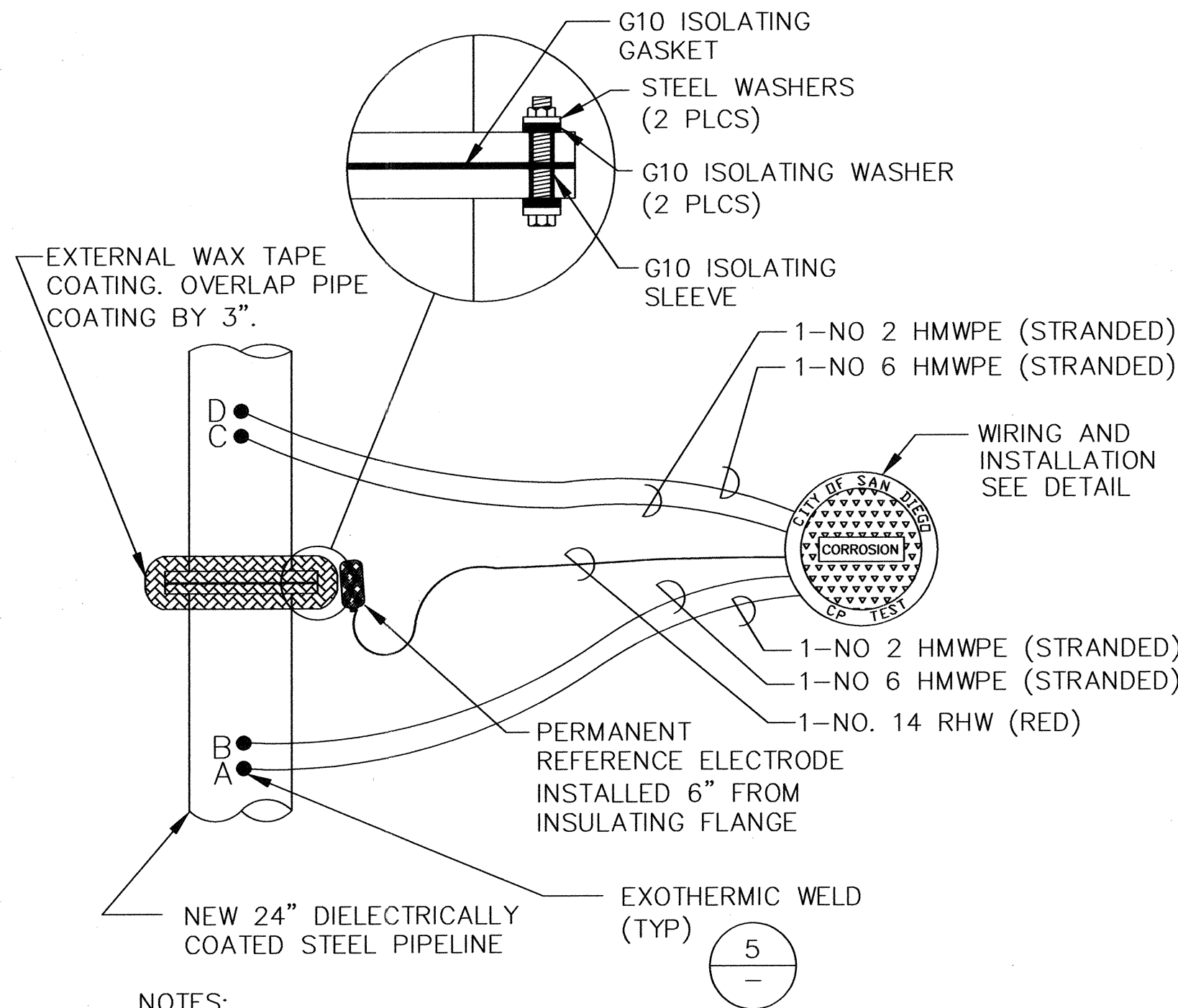
CAMINO DEL SUR RECYCLED WATER CONVERSION WATER POLLUTION CONTROL SITE PLAN			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 10 OF 13 SHEETS		WATER WBS: <u>BIO200</u> SEWER WBS:	
APPROVED BY: <u>Hosea Ayer</u> FOR CITY ENGINEER		DATE: <u>9.20.12</u>	
DESIGNER: <u>John Stoehr</u> ASSOCIATE ENGINEER		CHECKED BY: <u>John Stoehr</u> ASSOCIATE ENGINEER	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	ATKINS		
PROJECT ENGINEER		VARIES	
CCS27 COORDINATE		VARIES	
CCS83 COORDINATE		36608-10-D	
CONTRACTOR	DATE STARTED	36608-10-D	
INSPECTOR	DATE COMPLETED		

CAMINO DEL SUR RECYCLED WATER CONVERSION



PERMIT NUMBER II-12-NUX-0126  
 CO SD RTE 56 PM 6.07  
 AS-BUILT PLANS FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND  
 FEATURES

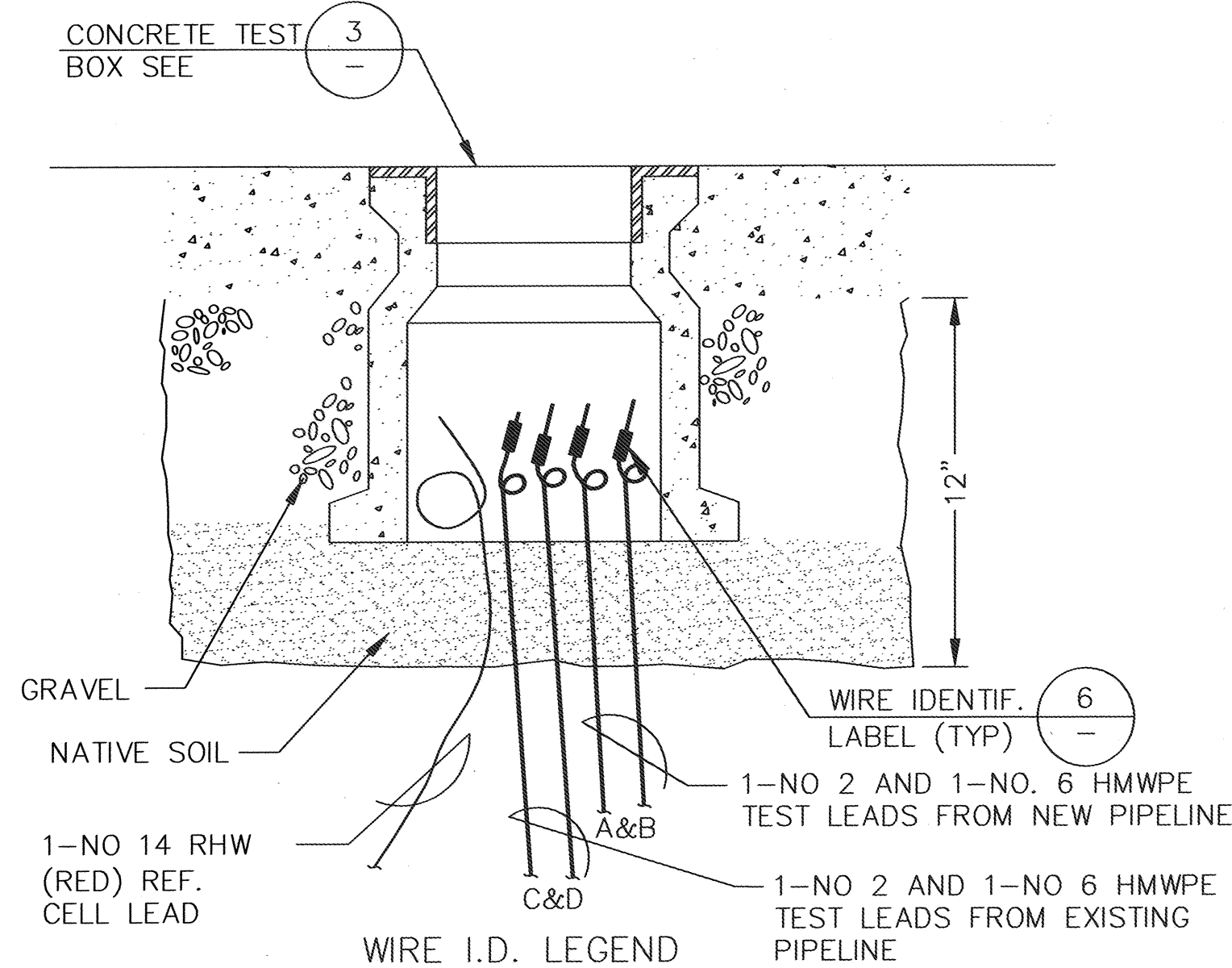
STATE REPRESENTATIVE DATE



- NOTES:
- TEST BOX SHALL BE INSTALLED OVER THE FLANGE ISOLATION KIT OR AS NEAR AS POSSIBLE.

**BURIED FLANGE ISOLATION WITH 4-WIRE TEST STATION**

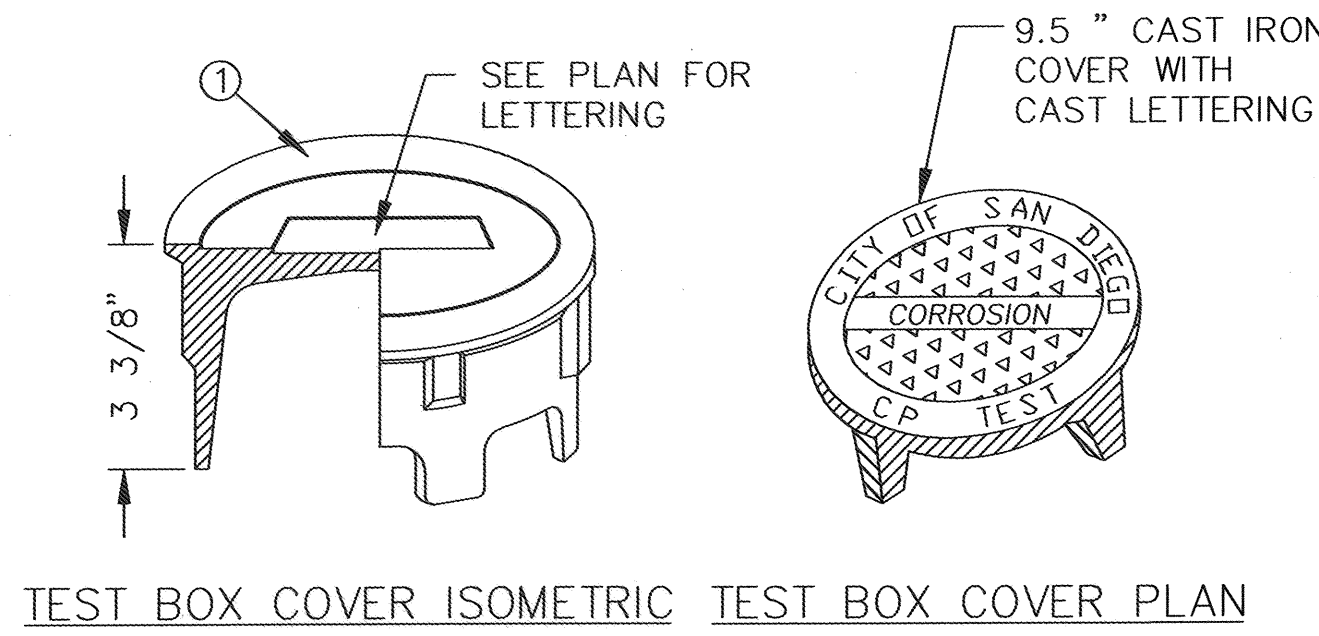
SCALE: NONE



WIRE	SIZE	DESCRIPTION
A	NO 2 HMWPE	STA XX+XX 24\"/>

**FLANGE ISOLATION TEST BOX**

SCALE: NONE

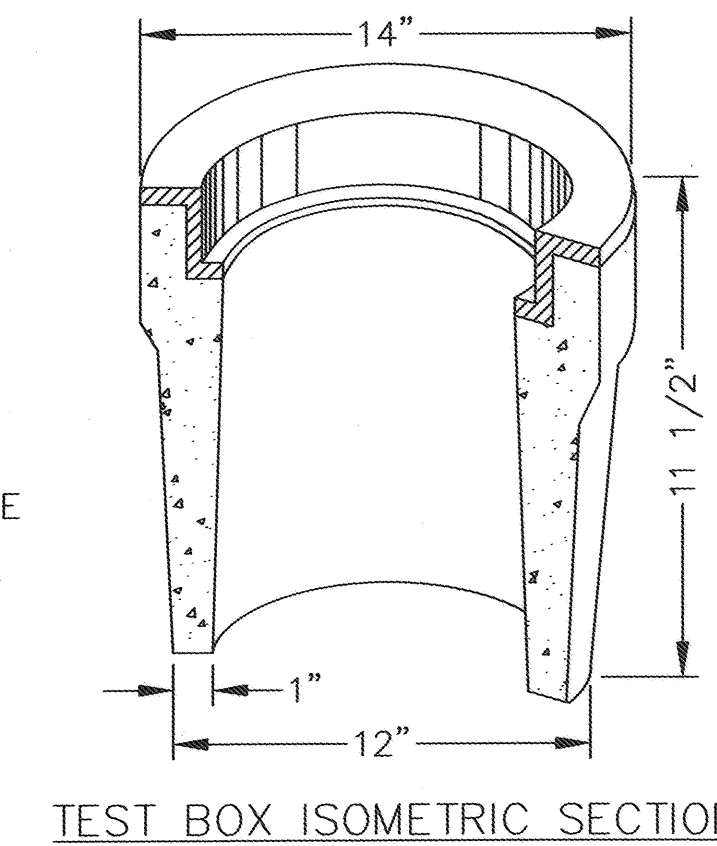


**MATERIALS:**

- COVER: ASTM A 48 CLASS 30.

**NOTES:**

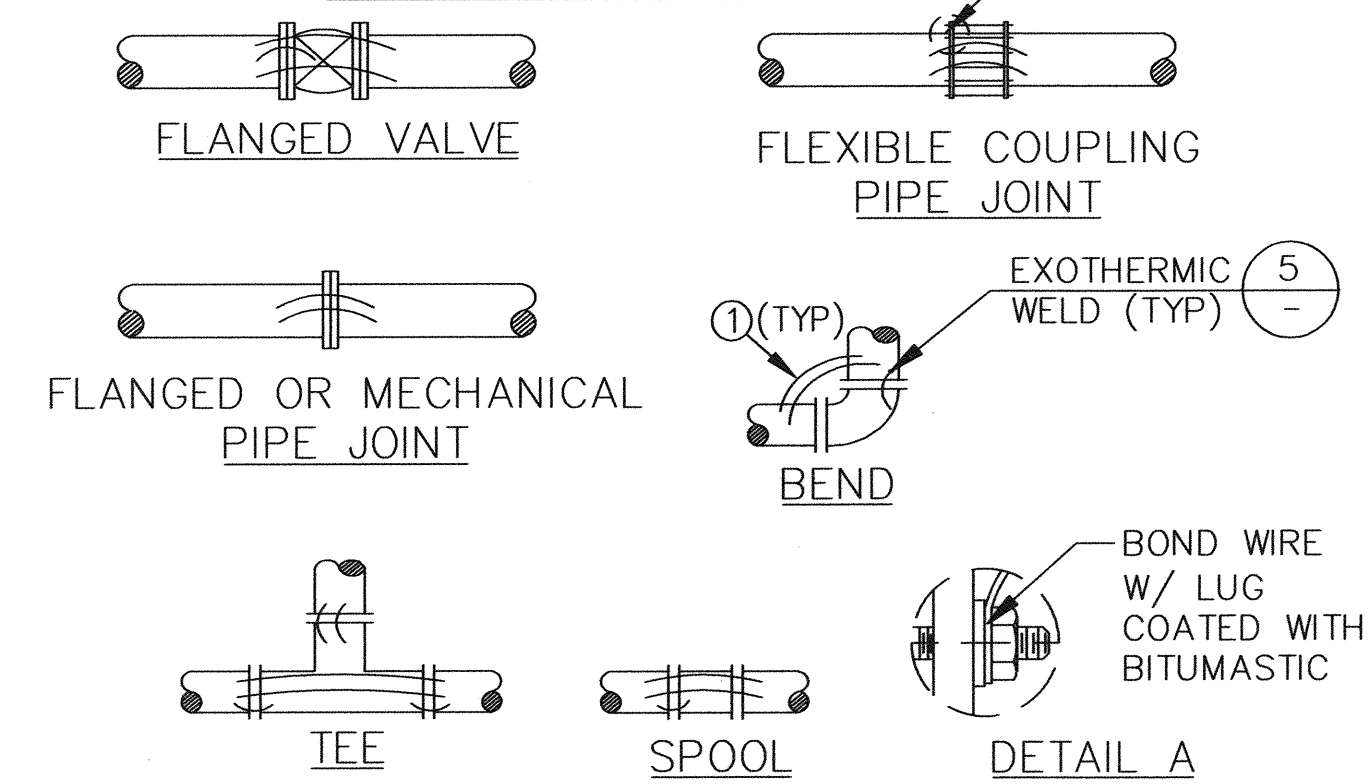
- THE COVER SHALL HAVE CASTED MARKING IN 1/2\"/>



TEST BOX ISOMETRIC SECTION

**CONCRETE TEST BOX**

SCALE: NONE



**MATERIALS:**

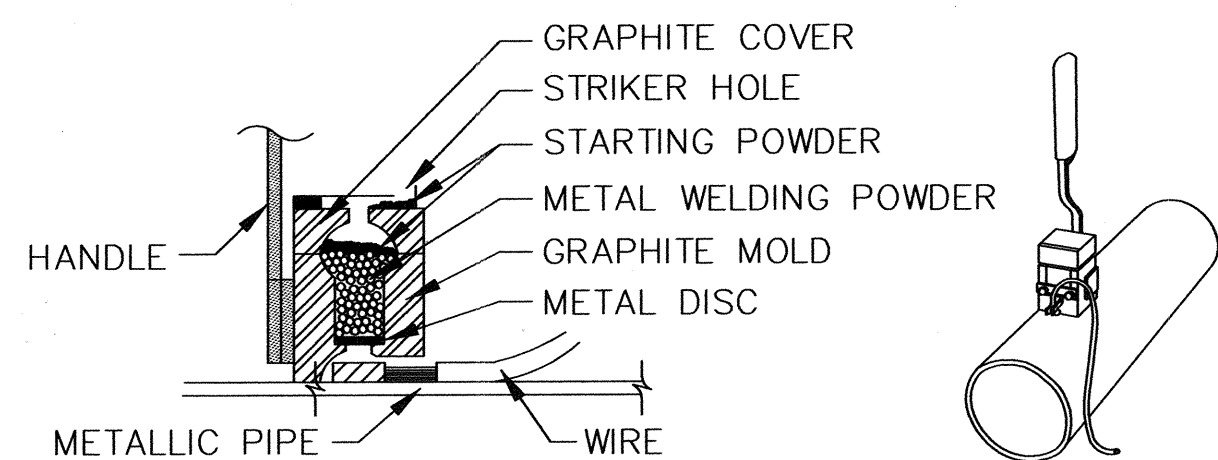
- BOND CABLE: AWG #4 COPPER ASTM B3 STRANDED ASTM B8 INSULATED ASTM D1248 TYPE 1, CLASS C GRADE 5.

**NOTES:**

- ALL BOND CABLE SHALL BE INSTALLED AT MINIMUM LENGTH.
- BOND CABLES SHALL NOT BE INSTALLED ACROSS INSULATING JOINTS.
- ONLY AT THE APPROVAL OF THE CORROSION ENGINEER.

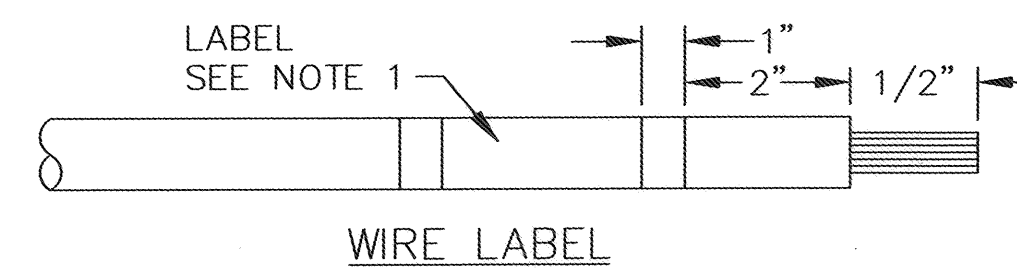
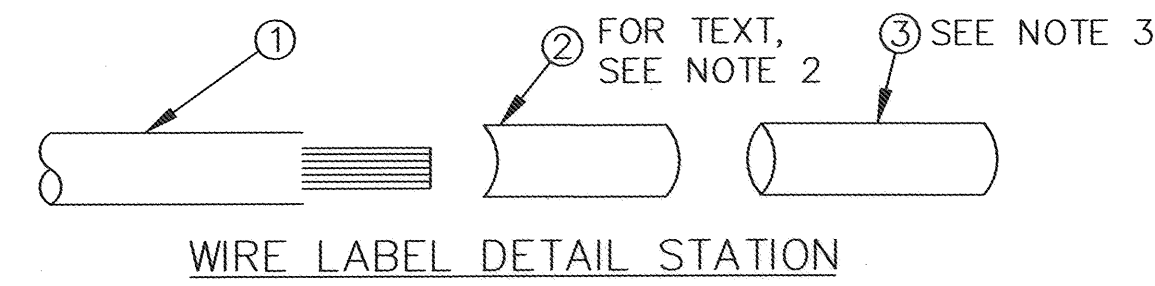
**CONTINUITY JOINT BOND**

SCALE: NONE



**EXOTHERMIC WELD NOTES:**

- ONE WELD SHALL BE USED FOR EACH WIRE.
- CLEAN OILY OR GREASY CABLE WITH A RAPID-DRYING SOLVENT. REMOVE ONLY ENOUGH INSULATION FROM THE CABLE TO ALLOW THE EXOTHERMIC WELD CONNECTION TO BE MADE.
- REMOVE ALL COATING, DIRT, GRIME, AND GREASE FROM THE METAL STRUCTURE AT WELD LOCATIONS BY WIRE BRUSHING AND/OR USE OF SUITABLE SAFE SOLVENTS. CLEAN THE STRUCTURE TO A BRIGHT, SHINY SURFACE FREE OF ALL SERIOUS PITS AND FLAWS. THE AREA OF THE STRUCTURE WHERE THE ATTACHMENT IS TO BE MADE MUST BE DRY.
- OPEN WELD MOLD AND PLACE METAL DISC INSIDE AT BOTTOM OF MOLD. POUR METAL WELDING POWDER INTO MOLD AND ON TOP OF METAL DISC. STARTING POWDER IS CAKED AT THE BOTTOM OF THE WELD CHARGE CONTAINER. TAP WELD CHARGE CONTAINER AND POUR HALF OF STARTING POWDER INTO WELD MOLD. CLOSE THE TOP OF WELD MOLD AND POUR THE REMAINING STARTING POWDER IN STRIKING HOLE. THE WELD MOLD IS NOW LOADED AND READY FOR USE.
- THE LEAD WIRE IS TO BE HELD AT AN ANGLE TO THE SURFACE WHEN WELDING. ONLY ONE WIRE SHALL BE ATTACHED WITH EACH WELD. HOLD LOADED WELD MOLD FIRMLY ON PIPE AND WIRE. IGNITE STARTING POWDER IN STRIKING HOLE USING A STRIKER. HOLD WELD MOLD FIRMLY AGAINST PIPE FOR 5 SECONDS TO ALLOW FOR WELD PROCESS.
- WELDS SHALL BE TESTED BY STRIKING THE WELD NUGGET WITH A TWO POUND HAMMER WHILE PULLING FIRMLY ON THE WIRE. ALL UNSOUND WELDS SHALL BE REMOVED, THE SURFACES RECLEANED, REWELDED, AND RETESTED. WELD SLAG SHALL BE REMOVED.
- APPLY PRIMER AND ELASTOMERIC WELD CAP TO THE WELD AND APPLY A BITUMASTIC COATING MATERIAL TO ALL EXPOSED AREAS AROUND THE CAP AND WIRES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE COATING SHALL OVERLAP THE STRUCTURE COATING A MINIMUM OF 3 INCHES.



CPTS# (CATHODIC PROTECTION TEST STATION NUMBERING)  
 CPTS#1, 2, 3, .....N

**NOTES:**

- CABLES SHALL BE TAGGED USING TIMES ROMAN 10 POINT FONT.
- TEXT SHALL BE PRESENTED IN THE FOLLOWING ORDER:
  - TYPE OF INSTALLATION
  - STATIONING
  - PIPE DIAMETER
  - PIPE MATERIAL
  - WIRE DIRECTIONAL ORIENTATION
- PLACE SLEEVE AFTER ATTACHMENT OF LABEL TO CABLE.
- BRASS TAGS MAY BE USED IN LIEU OF LABELS WITH APPROVAL FROM THE ENGINEER.

**MATERIALS:**

- CABLE: AWG ASTM B8 & B3.
- LABEL: FILE FOLDER, SELF ADHESIVE WHITE 2/3\"/>

**WIRE IDENTIFICATION**

SCALE: NONE

**EXOTHERMIC WELD**

NOT TO SCALE

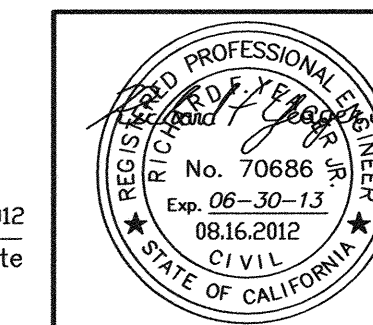
**GENERAL CATHODIC PROTECTION NOTES:**

- ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND TECHNICAL SPECIFICATIONS.
- UNLESS OTHERWISE NOTED DRAWINGS ARE NOT SHOWN TO SCALE.
- ALL TEST STATIONS SHALL BE THE CIRCULAR, CONCRETE, AT-GRADE TYPE WITH A METAL LID AND H-20 TRAFFIC RATED.
  - PROVIDE 18\"/>
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ADJACENT STRUCTURES AND UTILITIES AND FOR AVOIDING DAMAGE TO AND CONFLICT WITH THESE STRUCTURES OR UTILITIES.
- THE CONTRACTOR SHALL DOCUMENT ALL CHANGES FROM THESE DRAWINGS AND SUBMIT 'AS-BUILT' DRAWINGS TO THE ENGINEER PRIOR TO COMPLETION OF THE WORK.
- NO WIRE OR CABLE SPLICES ARE PERMITTED EXCEPT AS INDICATED IN THE DRAWINGS OR AS SPECIFICALLY APPROVED BY THE ENGINEER.
- BOND ALL METALLIC MECHANICAL PIPE JOINTS THAT ARE NOT DESIGNATED AS INSULATING JOINTS PER DETAIL 4, THIS SHEET.

CP-1

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 11 OF 13 SHEETS					WATER WBS	BI0200
CAMINO DEL SUR CATHODIC PROTECTION DETAILS					SEWER WBS	
APPROVED BY: <i>Heather Agor</i> 9.20.12					DATE	08.16.2012
FOR CITY ENGINEER					ASSOCIATE ENGINEER	JOHN STOHR
DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER	
ORIGINAL	ATKMS				N/A	CCS27 COORDINATE
					N/A	CCS83 COORDINATE
CONTRACTOR	DATE STARTED	DATE COMPLETED	36608-11-D			

*R.F. Yeager*  
 ENGINEERING  
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 ph: 619.647.6265  
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 Richard F. Yeager, Jr.  
 Civil Engineer No. C70686  
 NACE Cathodic Protection Specialist No.6321  
 08.16.2012 Date



CAMINO DEL SUR RECYCLED WATER CONVERSION



PERMIT NUMBER II-12-NUX-0126  
 CO SD RTE 56 PM 6.07  
 AS-BUILT PLANS FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND  
 FEATURES

STATE REPRESENTATIVE DATE

CAMINO DEL SUR RECYCLED WATER CONVERSION

CATHODIC PROTECTION SPECIFICATIONS

PART 1: GENERAL

1.01 SCOPE OF WORK

A. FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS TO INSTALL CATHODIC PROTECTION FACILITIES AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THESE SPECIFICATIONS. THE SYSTEM SHALL INCLUDE CONTINUITY BONDING, CATHODIC PROTECTION TEST STATIONS, AND ATTENDANT WIRING FOR A COMPLETE AND WORKABLE SYSTEM.

1.02 DEFINITIONS

A. CONTRACTOR: THE QUALIFIED CONSTRUCTION FIRM SELECTED BY THE OWNER TO HAVE PRIME RESPONSIBILITY FOR THE COMPLETION OF THE WORK.

B. OWNER: THE OWNER, AS REFERRED TO IN THESE SPECIFICATIONS, IS THE CITY OF SAN DIEGO.

C. ENGINEER: THE ENGINEER, AS REFERRED TO IN THIS SECTION, IS THE OWNER'S REPRESENTATIVE WHO IS ASSIGNED TO BE THE DIRECT CONTACT BETWEEN THE OWNER, THE CITY, AND THE CONTRACTOR.

D. INSPECTOR: THE OWNER'S REPRESENTATIVE DESIGNATED TO HAVE PROJECT INSPECTION RESPONSIBILITIES.

E. CORROSION ENGINEER: RETAINED BY THE CONTRACTOR, WHO IS TRAINED AND EXPERIENCED IN CATHODIC PROTECTION AND WHO IS EITHER A REGISTERED PROFESSIONAL CORROSION ENGINEER OR A NACE CATHODIC PROTECTION SPECIALIST.

1.03 SUBMITTALS

THE FOLLOWING SHALL BE SUBMITTED TO THE ENGINEER AND THE CITY'S CORROSION SECTION FOR APPROVAL:

A. CATALOG CUTS (5 COPIES):

- AT-GRADE TEST BOXES
- WIRE AND CABLE
- WAX TAPE COATING
- WELD CAPS
- WELD COATING
- PLASTIC WARNING TAPE
- FLANGE ISOLATION KITS

B. AS-BUILT DRAWINGS:

THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS SHOWING THE EXACT LOCATIONS OF ALL TEST STATIONS AND WIRE TRENCHING RUNS. LOCATION CHANGES FROM THE DESIGN SHALL BE INDICATED IN RED ON A BLUE LINE COPY OF THE DESIGN DRAWINGS. THESE DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER BEFORE THE WORK IS CONSIDERED COMPLETE.

1.04 TESTING AND INSPECTION

A. THE CONTRACTOR SHALL NOTIFY THE CITY'S CORROSION GROUP (619.527.7405) AT LEAST 5 DAYS IN ADVANCE OF INSTALLATION OF TEST STATIONS WAX TAPE, AND TEST LEAD CONNECTION TO THE PIPE. THE CITY'S CORROSION SECTION OR THE OWNER SHALL, AT THEIR DISCRETION, INSPECT AND TEST ALL CORROSION CONTROL OR MONITORING INSTALLATIONS.

1.05 LINING AND COATING

A. ALL DUCTILE IRON PIPE, FITTINGS, VALVES AND APPURTENANCES FOR BURIED SERVICE SHALL BE LINED AND COATED PER SECTION 207-9.2.4.

B. ALL INSULATING FLANGES SHALL BE WAX TAPE COATED PER AWWA C-217, THESE SPECIFICATIONS, AND THE DETAIL DRAWINGS.

PART 2: MATERIALS

MATERIALS AND EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS SHALL BE NEW AND OF THE HIGHEST QUALITY, THE STANDARD PRODUCT OF MANUFACTURERS REGULARLY ENGAGED IN THE MANUFACTURING OF SUCH PRODUCTS, AND SHALL BE THE MANUFACTURER'S LATEST STANDARD DESIGN THAT COMPLIES WITH SPECIFICATION REQUIREMENTS. MATERIALS AND EQUIPMENT SHALL BEAR EVIDENCE OF U.L. APPROVAL WHERE U.L. STANDARDS EXIST.

2.01 AT-GRADE TEST STATIONS

A. TEST BOXES SHALL BE PRECAST CONCRETE WITH DIMENSIONS OF 13 1/2" OD x 8" ID x 12" HIGH, SIMILAR TO BROOKS RT SERIES WITH A CAST IRON SUPPORTING RING AND LID. THE LID SHALL BE 9 1/2" OD AND CAST WITH THE LEGEND "CITY OF SAN DIEGO CORROSION TEST STATION" USING LETTERS NOT LESS THAN 1 INCHES HIGH.

B. ALL TEST LEADS SHALL BE IDENTIFIED WITH AN AVERY LABEL (MODEL 5361) SELF ADHESIVE COVERED WITH POLYOLEFIN CLEAR HEAT SHRINK TUBING (3MFP301). THE AVERY LABEL SHALL INCLUDE: STATION NUMBER, PIPE SIZE - PIPE MATERIAL - PIPE COATING, AND TYPE OF INSTALLATION. (EXAMPLES STA 1+00, 12" DIP - EPOXY, 4-WIRE CTS). BRASS TAGS MAY BE USED IN LIEU OF LABELS, WITH APPROVAL FROM THE ENGINEER.

C. TEST BOXES MOUNTED IN UN-PAVED AREAS SHALL BE MOUNTED IN A 24"x24"x4" THICK REINFORCED CONCRETE PAD CONSTRUCTED OF ASTM C94 READY-MIX CONCRETE.

D. ALL TEST STATIONS INSTALLED IN AREAS WITH NO ROADWAY OR CURB SHALL HAVE A 4" X 62" BLUE CARSONITE MARKER, WITH DECAL, INSTALLED NEXT TO TEST STATION.

2.02 WIRE AND CABLE

A. ALL LEAD WIRES SHALL BE STRANDED COPPER WITH A RHW OR HMWPE INSULATION SUITABLE FOR DIRECT BURIAL IN CORROSIVE SOIL AND WATER, CONFORMING TO U.L. STANDARD 83.

- TEST WIRES: WIRE SHALL BE NO. 2 AND NO. 6 AWG WIRE WITH HMWPE INSULATION.
- PERMANENT REFERENCE LEAD WIRES: NO. 14 AWG WIRE (RED) WITH RHW INSULATION.
- BOND WIRES: BOND WIRES AT ALL IN-LINE MECHANICAL JOINTS SHALL BE NO. 4 AWG WITH BLACK HMWPE INSULATION.

2.03 WAX TAPE COATING

A. WAX TAPE COATING SHALL BE IN ACCORDANCE WITH AWA C217.

B. THE FLANGE AND BOLT SURFACES SHALL BE PRIME COATED WITH A BLEND OF PETROLATUM, PLASTICIZER, INERT FILLERS, AND CORROSION INHIBITOR HAVING A PASTE-LIKE CONSISTENCY. THE PRIMER SHALL BE TRENTON WAX-TAPE PRIMER OR EQUAL.

C. FLANGE COVERING MATERIAL SHALL BE A SYNTHETIC FELT TAPE SATURATED WITH A BLEND OF PETROLATUM, PLASTICIZERS, AND CORROSION INHIBITORS THAT IS EASILY FORMABLE OVER IRREGULAR SURFACES. THE WAX-TAPE SHALL BE TRENTON NO.1 WAX-TAPE OR EQUAL.

D. THE PRIMED AND WAX-TAPE WRAPPED FLANGE SHALL BE WRAPPED WITH A PLASTIC TAPE COVERING CONSISTING OF THREE (3) LAYERS OF 50 GAUGE OR 10 MIL. POLYETHYLENE CHLORIDE. HIGH CLING MEMBRANES WOUND TOGETHER AS A SINGLE SHEET. THE OUTER COVERING SHALL BE TRENTON POLY-PLY OR EQUAL.

2.04 EXOTHERMIC WELD KIT

A. WIRE-TO-PIPE CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELDING PROCESS. WELD CHARGE SIZE, ALLOY, AND MOLD SIZE SHALL BE AS SPECIFIED BY THE MANUFACTURER OF THE WELD KIT AND ILLUSTRATED ON DRAWINGS. THE CONTRACTOR SHALL INSURE THAT THE CORRECT CHARGES ARE USED.

2.05 WELD CAPS

A. WELD CAP PRIMER: WELD CAP PRIMER SHALL BE AN ELASTOMER-RESIN BASED CORROSION RESISTANT PRIMER FOR UNDERGROUND SERVICES. USE ROYSTON ROYBOND PRIMER 747 OR EQUAL.

B. WELDS SHALL BE SEALED WITH A PRE-FABRICATED PLASTIC CAP FILLED WITH FORMABLE MASTIC COMPOUND. USE ROYSTON HANDY CAP 2 OR EQUAL.

2.06 WELD COATING

A. ALL EXOTHERMIC WELDS AND WELD CAPS SHALL BE COATED WITH A COLD-APPLIED FAST-DRYING MASTIC CONSISTING OF BITUMINOUS RESIN AND SOLVENTS PER MIL. SPEC MIL-C-18480B SUCH AS KOPCOAT BITUMASTIC 50 OR EQUAL. THE MINIMUM COATING THICKNESS SHALL BE 25 MILS (0.025 INCH).

2.07 PLASTIC WARNING TAPE

A. PLASTIC WARNING TAPE FOR BURIED TEST LEADS IN CABLE TRENCHES SHALL BE A MINIMUM OF 4 MILS THICK AND 6-INCHES WIDE, INERT PLASTIC FILM DESIGNED FOR PROLONGED USE UNDERGROUND. THE TAPE SHALL HAVE THE WORDS, "CAUTION: CATHODIC PROTECTION CABLE BELOW," OR SIMILAR, CLEARLY VISIBLE IN REPEATING PATTERNS ALONG ITS ENTIRE LENGTH.

2.08 FLANGES ISOLATION

A. FLANGE ISOLATION KITS:

- GASKETS: ANSI B-16.21, TYPE E, NEMA G10 GLASS WITH O-RING SEAL FOR OPERATION BETWEEN 20-DEG. F AND 150-DEG. F. GASKETS SHALL BE SUITABLE FOR THE TEMPERATURE AND PRESSURE RATING OF THE PIPING SYSTEM IN WHICH THEY ARE INSTALLED.
- INSULATING SLEEVES: 1/32-INCH THICK TUBE, FULL LENGTH, G10 GLASS MATERIAL PER NEMA LI-1 FOR OPERATION BETWEEN 20-DEG. F AND 150-DEG. F. FOR INSTALLATION AT THREADED VALVE FLANGES, HALF-LENGTH SLEEVES SHALL BE USED.
- INSULATING WASHERS: 1/8-INCH THICK, G10 GLASS PER NEMA LI-1 FOR OPERATION BETWEEN 20-DEG. F AND 150-DEG. F.
- STEEL WASHERS: 1/8-INCH CADMIUM PLATED STEEL PLACED BETWEEN THE NUT AND INSULATING WASHER.
- ALL BURIED INSULATING FLANGES SHALL BE INSPECTED AND TESTED BY THE CORROSION ENGINEER BEFORE WAX TAPE AND BACKFILL. AND THESE SPECIFICATIONS. ALL INSULATING FLANGES SHALL BE WAX TAPED COATED PER AWWA C217.

PART 3: EXECUTION

ALL WORK SHALL BE PERFORMED BY QUALIFIED, EXPERIENCED PERSONNEL WORKING UNDER CONTINUOUS, COMPETENT SUPERVISION.

3.01 AT-GRADE TEST STATIONS

A. TEST BOXES SHALL BE LOCATED OVER THE PIPE WHEN POSSIBLE. HOWEVER, TEST BOXES SHALL NOT BE INSTALLED IN PAVEMENT, STREET, ROADWAYS, OR TRAFFIC AREAS. IN PAVED AREAS, LOCATE TEST BOX BEHIND CURB OR SIDEWALK.

B. TEST LEADS SHALL BE ATTACHED TO THE PIPE USING THE EXOTHERMIC WELD PROCESS. AN 18-INCH SLACK WIRE COIL SHALL BE PLACED AT EACH WELD.

C. ALL BURIED LEAD WIRES SHALL BE INSTALLED WITHOUT DAMAGE OR SPLICES IN A TRENCH AT A MINIMUM DEPTH OF 36 INCHES. ALL LEADS SHALL TERMINATE IN A TEST BOX. ALL LEADS SHALL HAVE 18 INCHES OF SLACK COILED INSIDE THE TEST BOX.

D. TEST BOXES SHALL BE FILLED WITH NATIVE SOIL TO BOTTOM OF TEST BOX.

E. A 24"x24"x4" DEEP, REINFORCED CONCRETE PAD IS REQUIRED AROUND TEST STATIONS NOT LOCATED IN A PAVED AREA.

3.02 WIRE AND CABLE

A. HORIZONTAL TEST LEAD RUNS SHALL BE PLACED IN A TRENCH WITH A MINIMUM DEPTH OF 36 INCHES. THE BOTTOM OF THE FINISHED TRENCH SHALL BE SAND OR STONE-FREE EARTH. DO NOT STRETCH OR KINK THE LEADS. CARE SHALL BE TAKEN SO INSULATION IS NOT BROKEN, CUT, OR BRUISED.

B. PLASTIC WARNING TAPE SHALL BE INSTALLED IN ALL WIRE TRENCHES APPROXIMATELY 12-INCHES ABOVE TRENCH WIRES.

C. ALL DAMAGED WIRE INSULATION SHALL BE REJECTED AND REPLACED COMPLETELY AT THE CONTRACTOR'S EXPENSE. REJECTED WIRE SHALL BE REMOVED FROM THE JOB SITE AT THE CLOSE OF EACH WORK DAY.

D. NO WIRE SPLICES ARE ALLOWED.

3.03 MECHANICAL JOINT BONDS

A. TWO (2) NO. 4 HMWPE BOND WIRES ARE REQUIRED ACROSS ALL NON-INSULATING VALVES, FLANGES, COUPLINGS, AND ADAPTERS. BOND WIRES SHALL BE AS SHORT AS POSSIBLE.

3.04 WAX TAPE COATING

A. FLANGE SURFACES MUST BE CLEANED OF ALL DIRT, DUST, AND LOOSE RUST BY WIRE BRUSH AND BY WIPING WITH A CLEAN CLOTH. THE SURFACE SHALL BE DRY. APPLY PRIMER BY HAND OR BRUSH. A THIN COATING OF PRIMER SHALL BE APPLIED TO ALL SURFACES AND WORKED INTO ALL CREVICES. THE PRIMER SHALL BE APPLIED GENEROUSLY AROUND BOLTS AND NUTS AND IN THREADS, AND SHALL COMPLETELY COVER ALL EXPOSED SURFACES AND FILL ALL VOIDS.

B. THE PETROLATUM TAPE CAN BE APPLIED IMMEDIATELY AFTER THE PRIMER. SHORT LENGTHS OF TAPE SHALL BE CUT AND CAREFULLY MOLDED AROUND EACH INDIVIDUAL BOLT, NUT, AND STUD-END. AFTER ALL BOLTS ARE COVERED, THE TAPE SHALL BE CIRCUMFERENTIALLY WRAPPED OVER THE FLANGE WITH SUFFICIENT TENSION AND PRESSURE TO PROVIDE CONTINUOUS ADHESION WITHOUT STRETCHING THE TAPE. THE TAPE SHALL BE FORMED BY HAND INTO ALL VOIDS AND SPACES. THERE SHALL BE NO GAPS OR AIR SPACES UNDER THE TAPE. THE TAPE SHALL BE APPLIED WITH AT LEAST A 1-INCH OVERLAP. THE WAX-TAPE SYSTEM SHALL HAVE A MINIMUM THICKNESS OF 50 MILS OVER SMOOTH SURFACES AND 100 MILS OVER SHARP PROJECTIONS.

C. THE CLEAR PLASTIC OUTER COVERING SHALL BE APPLIED BY HAND SUCH THAT THE MATERIAL CONFORMS TO THE PETROLATUM TAPE SURFACE. TWO LAYERS OF PLASTIC OUTER WRAPPING SHALL BE APPLIED.

3.05 WIRE TO PIPE CONNECTIONS

A. CLEAN OILY OR GREASY CABLE WITH A RAPID-DRYING SOLVENT. REMOVE ONLY ENOUGH INSULATION FROM THE CABLE TO ALLOW THE EXOTHERMIC WELD CONNECTION TO BE MADE.

B. REMOVE ALL COATING, DIRT, GRIME, AND GREASE FROM THE METAL STRUCTURE AT WELD LOCATIONS BY WIRE BRUSHING AND/OR USE OF SUITABLE SAFE SOLVENTS. CLEAN THE STRUCTURE TO A BRIGHT, SHINY SURFACE FREE OF ALL SERIOUS PITS AND FLAWS. THE AREA OF THE STRUCTURE WHERE THE ATTACHMENT IS TO BE MADE MUST BE DRY. DO NOT WELD DIRECTLY TO DIP WITH SPECIAL LINING.

C. THE LEAD WIRE IS TO BE HELD AT AN ANGLE TO THE SURFACE WHEN WELDING. ONLY ONE WIRE SHALL BE ATTACHED WITH EACH WELD.

D. WELDS SHALL BE TESTED BY STRIKING THE WELD NUGGET WITH A TWO POUND HAMMER WHILE PULLING FIRMLY ON THE WIRE. ALL UNSOUND WELDS SHALL BE REMOVED, THE SURFACES RECLEANED, REWELDED, AND RETESTED. WELD SLAG SHALL BE REMOVED.

E. APPLY AN ELASTOMERIC WELD CAP TO THE WELD AND APPLY A BITUMASTIC COATING MATERIAL TO ALL EXPOSED AREAS AROUND THE CAP AND WIRES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE COATING SHALL OVERLAP THE STRUCTURE COATING A MINIMUM OF 3 INCHES.

3.06 FLANGE ISOLATION KITS

A. GENERAL: INSULATING FLANGE KITS SHALL BE PRE-ASSEMBLED AND INSTALLED AS RECOMMENDED BY THE MANUFACTURER, AND PER NACE SP0286. MOISTURE, SOIL, AND OTHER FOREIGN MATTER MUST BE FULLY REMOVED AND PREVENTED FROM CONTACTING ANY PORTION OF MATING SURFACES. IF FOREIGN MATTER CONTACTS ANY PORTION OF THESE SURFACES, THEN THE ENTIRE FLANGE SHALL BE DISASSEMBLED, CLEANED, AND DRIED BEFORE REASSEMBLY.

B. INSTALLATION: ALIGN AND INSTALL INSULATING JOINTS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS TO AVOID DAMAGING INSULATING MATERIALS. THE MANUFACTURER'S BOLT TIGHTENING SEQUENCE AND TORQUE SPECIFICATIONS SHALL BE FOLLOWED.

C. PAINT PIGMENTS: NO ELECTRICALLY CONDUCTIVE PIGMENTS OR PAINTS SHALL BE USED EITHER INTERNALLY OR EXTERNALLY ON THE BOLTS, WASHERS, OR FLANGES.

D. INSPECTION: ALL BURIED INSULATING FLANGES SHALL BE INSPECTED, TESTED, AND APPROVED BY THE CITY'S CORROSION GROUP (619.527.7405) AS DESCRIBED IN PART 4 OF THIS SPECIFICATION AND PRIOR TO THE APPLICATION OF WAX TAPE.

PART 4: TESTING AND INSPECTION

THE CORROSION ENGINEER SHALL SUBMIT HIS PROPOSED TEST PROCEDURE TO THE ENGINEER AT LEAST FIVE (5) DAYS IN ADVANCE OF THE TIME THAT THE CATHODIC PROTECTION SYSTEM TESTING IS SCHEDULED. THE ENGINEER SHALL WITNESS ALL TESTING AT HIS DISCRETION. ALL TEST DATA SHALL BE RECORDED AND A COPY SUBMITTED TO THE ENGINEER WITHIN SEVEN (7) DAYS OF THE COMPLETION OF TESTING. TESTING SHALL BE DONE UNDER THE SUPERVISION OF A QUALIFIED CORROSION ENGINEER WHO IS RETAINED BY THE OWNER. ALL DEFICIENCIES FOUND TO BE DUE TO FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AND AT HIS OWN EXPENSE. THE CITY OF SAN DIEGO CORROSION SECTION SHALL BE NOTIFIED 48-HOURS IN ADVANCE TO WITNESS THE PERFORMANCE TESTING AT 619.527.7405. THE CATHODIC PROTECTION TEST REPORT SHALL INCLUDE:

- INSPECTION OF TEST BOX INSTALLATIONS
- NATIVE PIPE-TO-SOIL POTENTIAL READINGS
- ACTIVATED PIPE-TO-SOIL POTENTIAL READINGS

4.01 TEST LEADS AND BOND WIRES

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING ALL TEST LEADS AND BOND WIRE WELDS.

B. ALL COMPLETED WELDS SHALL BE TESTED PER SECTION 305D ABOVE. WIRE WELDS SHALL BE SPOT TESTED BY THE ENGINEER. AFTER BACKFILLING PIPE ALL TEST LEAD PAIRS SHALL BE TESTED USING A STANDARD OHMMETER. THE RESISTANCE SHALL NOT EXCEED 150% OF THE TOTAL WIRE RESISTANCE.

C. WELDS NOT LOOSENED OR BROKEN BY THE HAMMER TEST SHALL BE ACCEPTED. ULTIMATE BOND WIRE ACCEPTANCE SHALL BE DETERMINED BY PIPELINE CONTINUITY TESTING.

4.02 TEST LEAD TRENCHING AND BACKFILL

A. THE DEPTH, TRENCH BOTTOM, AND BACKFILL SHALL BE INSPECTED BY THE ENGINEER AT HIS DISCRETION PRIOR TO BACKFILLING.

4.03 FLANGE ISOLATION KITS

A. RESPONSIBILITY: INSULATING FLANGES SHALL BE INSPECTED AND TESTED BY THE CORROSION ENGINEER AND IN THE PRESENCE OF THE ENGINEER, PRIOR TO BACKFILLING. THE CONTRACTOR SHALL CONTACT THE CITY'S CORROSION GROUP 858.614.5560 TO WITNESS THE TESTING OF ALL INSULATORS BEFORE WAX TAPE AND BACKFILL.

B. METHOD: USING A GAS ELECTRONICS MODEL 601 INSULATOR CHECKER, OR USING AN APPROVED EQUAL DEVICE SPECIFICALLY DESIGNED FOR TESTING FLANGE ISOLATION KITS, OR ANY APPROVED METHOD DESCRIBED IN NACE SP0286.

C. ACCEPTANCE: THE FLANGE ISOLATION KIT SHALL TEST "GOOD" WITH ANY OF THE ABOVE METHODS. FAILED FLANGE ISOLATION KITS SHALL BE REPAIRED AND RE-TESTED AT THE EXPENSE OF THE CONTRACTOR.

4.04 COMPLIANCE WITH SPECIFICATIONS

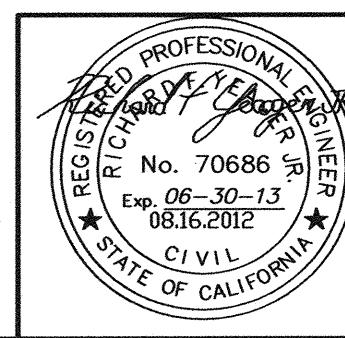
A. ANY DEFICIENCIES OR OMISSIONS IN MATERIALS OR WORKMANSHIP FOUND BY THESE TESTS SHALL BE RECTIFIED BY THE CONTRACTOR AT HIS EXPENSE. DEFICIENCIES SHALL INCLUDE BUT ARE NOT LIMITED TO: UNCONNECTED OR BROKEN TEST LEADS; INCORRECT WIRE TYPE; IMPROPER OR UN-CLEAN WIRE TRENCH BACKFILL; LACK OF 18-INCH SLACK WIRE ON EACH TEST LEAD IN EACH TEST BOX; FAILURE TO NOTIFY THE ENGINEER IN SUFFICIENT TIME TO CONDUCT TESTING; OR IMPROPERLY MOUNTED OR LOCATED TEST BOXES.

CP-2

*R.F. Yeager*  
 ENGINEERING  
 9562 Winter Gardens Suite D-151  
 Lakeside, Ca 92040  
 ph: 619.647.6265  
 fx: 619.561.0031

Richard F. Yeager, Jr.  
 Civil Engineer No. C70686  
 NACE Cathodic Protection Specialist No.6321

08.16.2012 Date



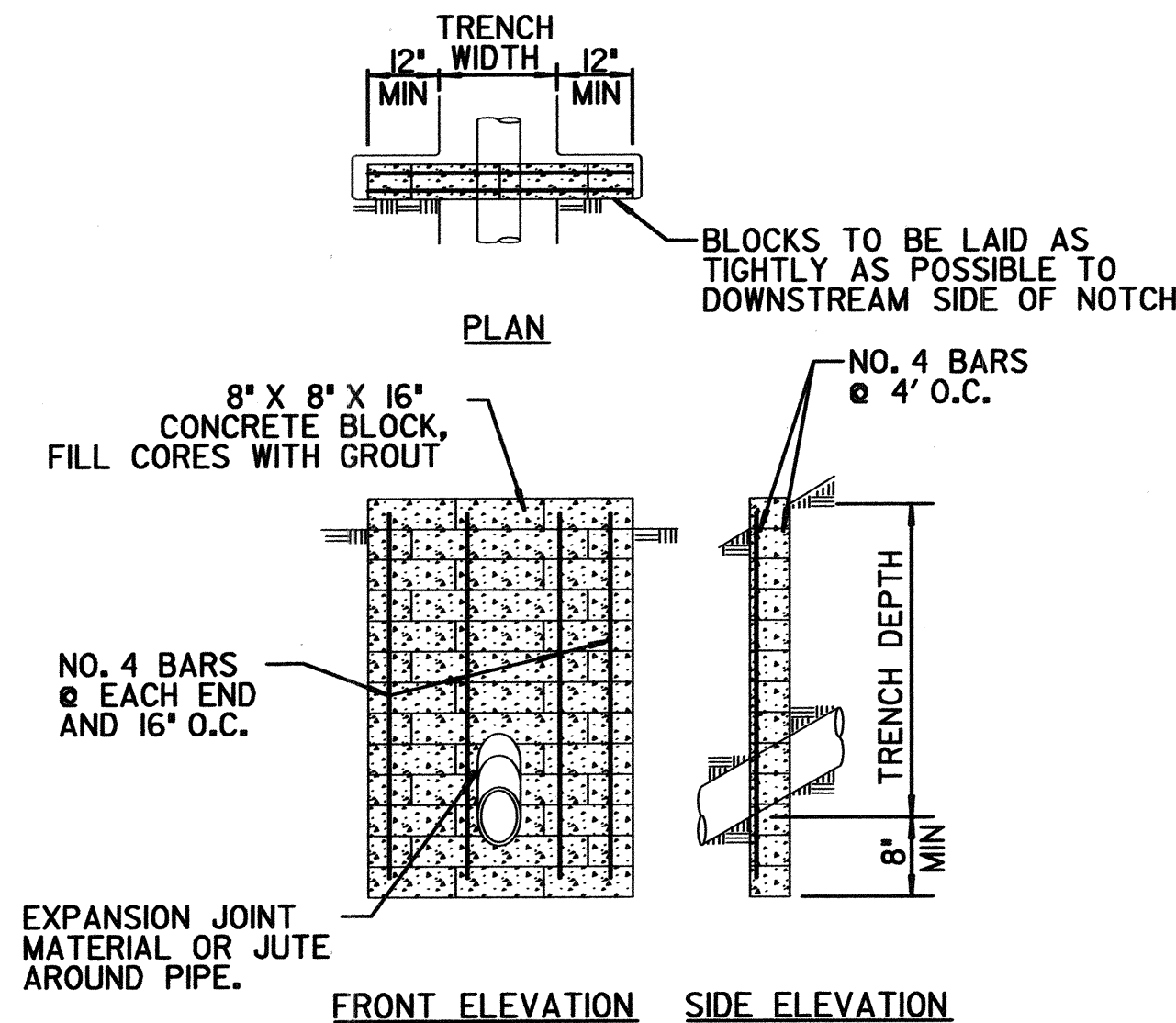
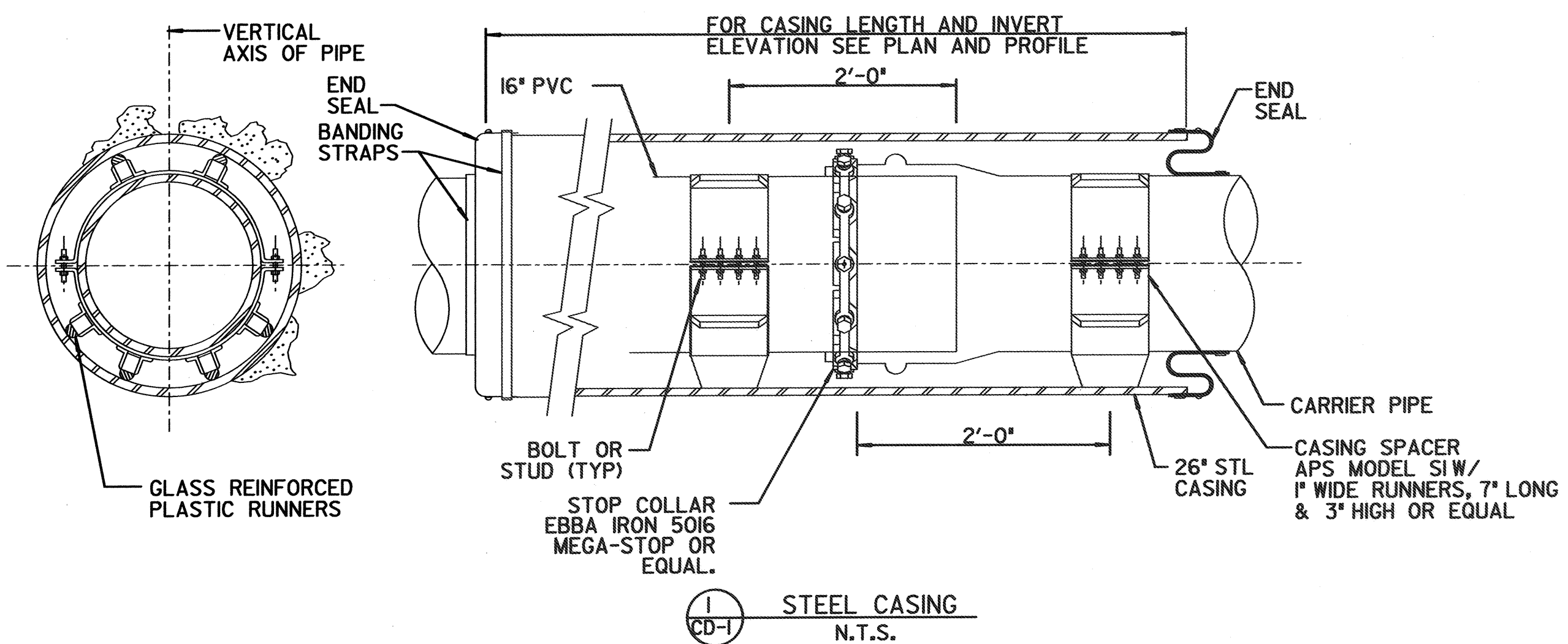
CAMINO DEL SUR RECYCLED WATER CONVERSION				
CAMINO DEL SUR CATHODIC PROTECTION NOTES				
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 12 OF 13 SHEETS				WATER WBS: <b>BI0200</b> SEWER WBS:
APPROVED FOR CITY ENGINEER: <i>Hector Aguirre</i>	DATE: <b>9.20.12</b>	DESIGNED BY: <b>JOHN STOHR</b> ASSOCIATE ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	ATKMS			
CONTRACTOR	DATE STARTED	PROJECT ENGINEER		
INSPECTOR	DATE COMPLETED	N/A CCS27 COORDINATE N/A CCS83 COORDINATE		
		36608-12-D		



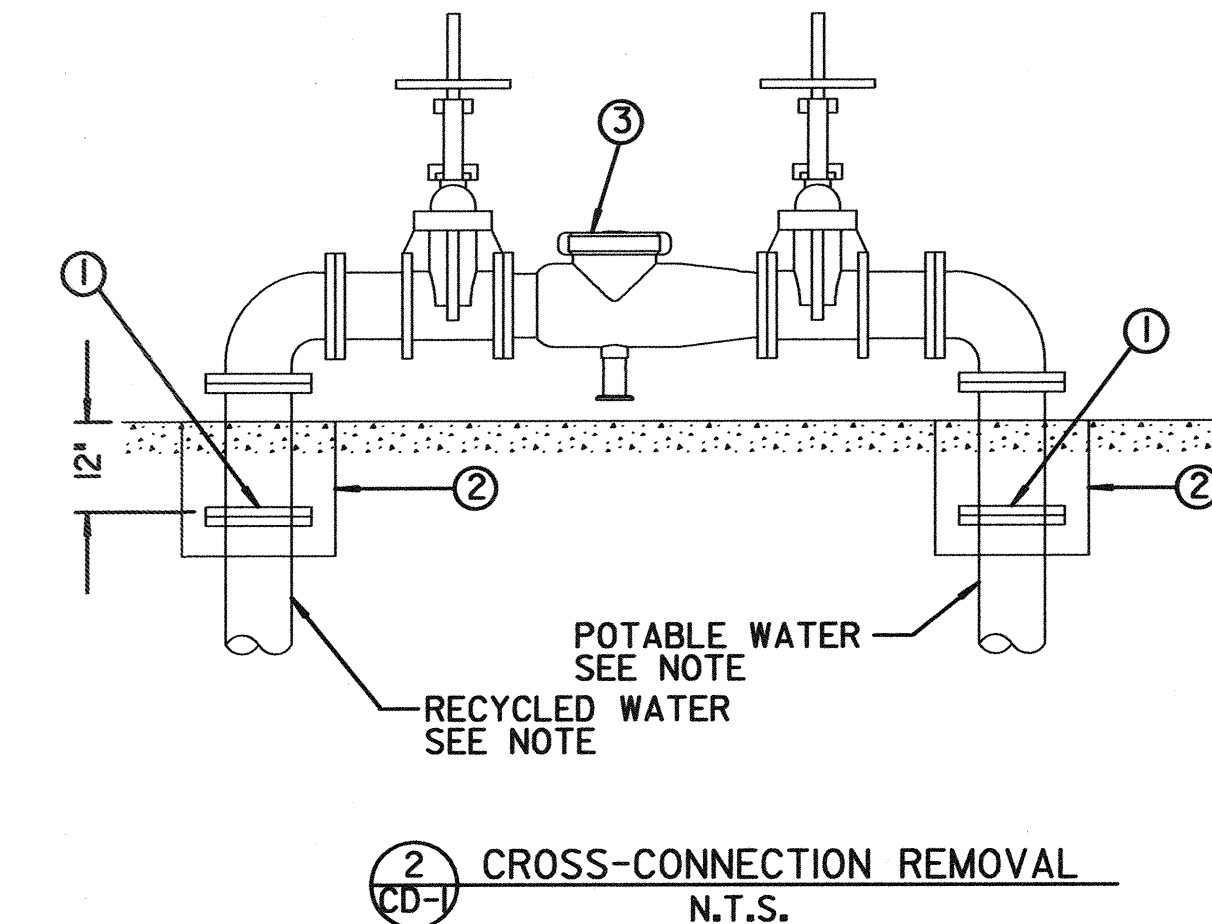
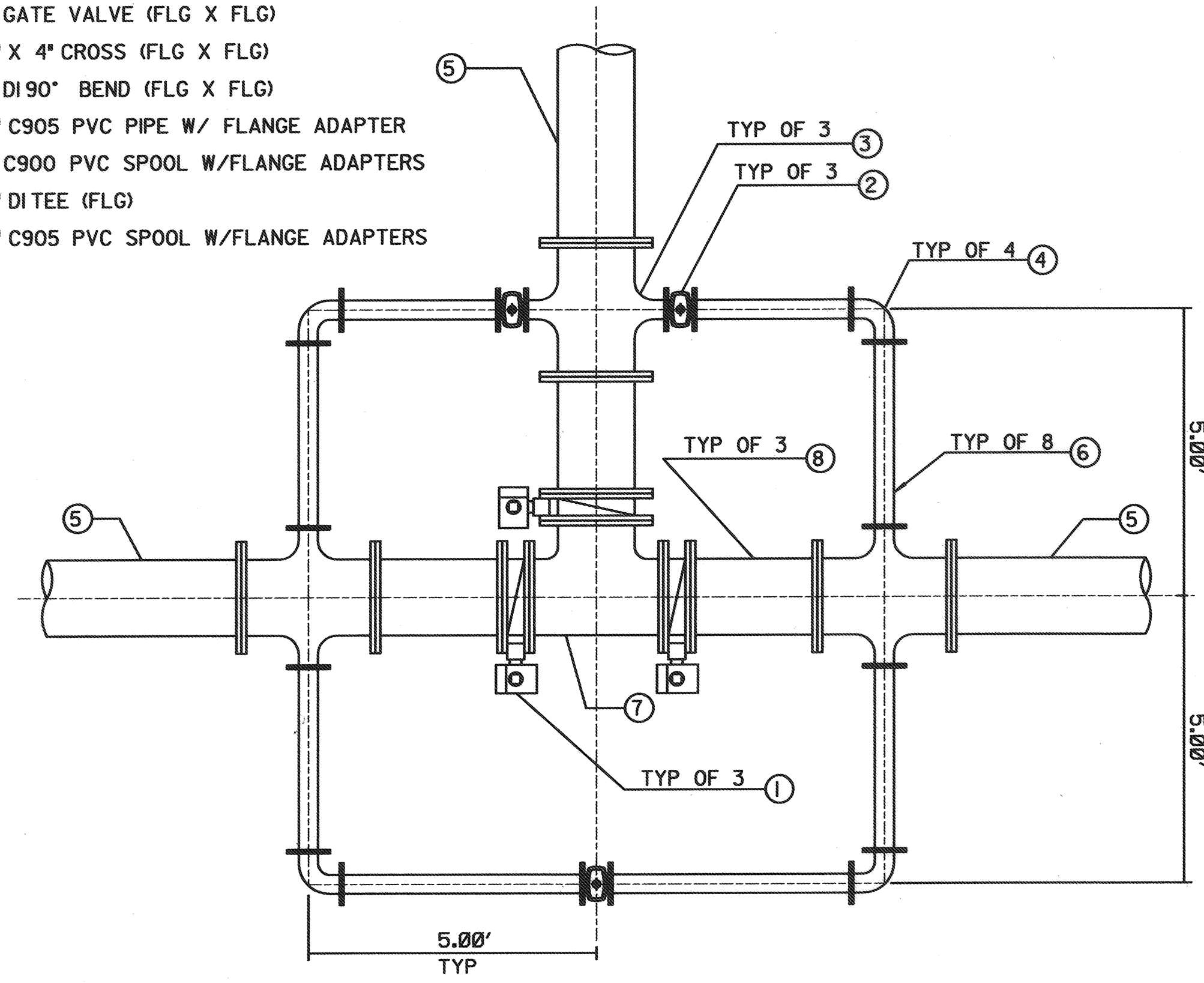
PERMIT NUMBER II-12-NUX-0126  
 CO SD RTE 56 PM 6.07  
 AS-BUILT PLANS FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND  
 FEATURES  
 STATE REPRESENTATIVE DATE

NOTES:

- FILL ANNULAR VOID W/NON-SHRINK GROUT.
- CARRIER PIPE SHALL BE TESTED BEFORE INSTALLATION OF GROUT & END SEALS OF CASING.
- CASING SPACERS SHALL BE SO BOLTED AROUND THE PIPE THAT THE PLASTIC RUNNERS ARE LOCATED SYMMETRICALLY ABOUT THE VERTICAL AXIS OF PIPE.
- CASING PIPE SHALL BE 0.25" THICK, GRADE C PER ASTM A-283. PIPE SHALL BE COATED ON THE EXTERIOR PER SPECIFICATION SECTION 207-IL5.2b.
- INSTALL CASING SPACER 2' FROM EACH END OF 20' PIPE LENGTH AND ONE AT CENTER OF PIPE (3 SPACER PER 20' PIPE LENGTH).
- CONTRACTOR SHALL PUSH THE CARRIER PIPE THROUGH THE CASING IN SEGMENTS NOT TO EXCEED 260' IN LENGTH. CONNECT CASING PIPE SEGMENTS PER CASING PIPE CLOSURE DETAIL (4).



- (1) 16" BUTTERFLY VALVE (FLG X FLG)
- (2) 4" GATE VALVE (FLG X FLG)
- (3) 16" X 4" CROSS (FLG X FLG)
- (4) 4" DI 90° BEND (FLG X FLG)
- (5) 16" C905 PVC PIPE W/ FLANGE ADAPTER
- (6) 4" C900 PVC SPOOL W/FLANGE ADAPTERS
- (7) 16" DI TEE (FLG)
- (8) 16" C905 PVC SPOOL W/FLANGE ADAPTERS



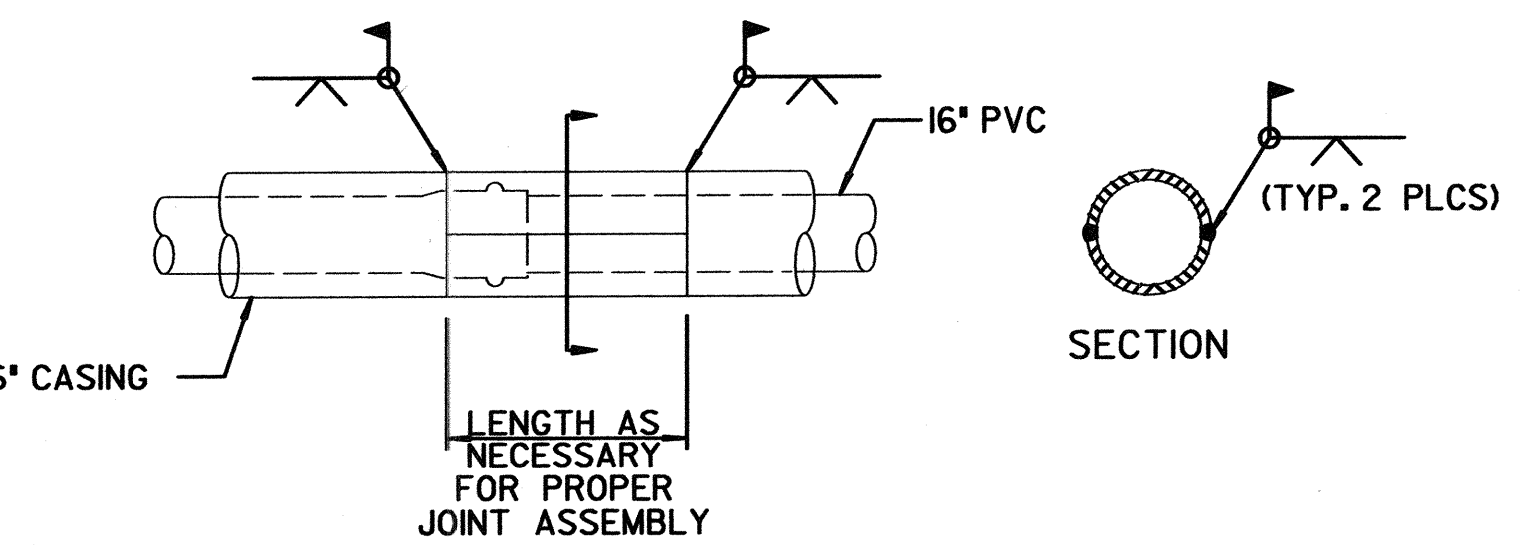
- LOCATE EX. BELOW GRADE FLANGE CONNECTION. REMOVE ABOVE GROUND BACKFLOW PREVENTOR AND INSTALL BLIND FLANGE.
- INSTALL METER BOX PER SDW-135. LID SHALL BE LABELED TO CORRECTLY IDENTIFY POTABLE AND RECYCLED WATER. PAINT RECYCLED WATER LID & BLIND FLANGE PURPLE (PANTONE 512). PAINT POTABLE WATER LID & BLIND FLANGE BLUE.
- REMOVE ABOVE GROUND RP ASSEMBLY AND DELIVER TO WATER UTILITIES YARD.

NOTE: CROSS-CONNECTION N/O TORREY MEADOWS DR. CONSISTS OF 8" DIP. CROSS-CONNECTION ON TORREY SANTA FE W/O CAMINO DEL SUR CONSISTS OF 12" DIP.

THRUST BLOCK TABLE					
REQUIRED BEARING AREA (SF)					
PIPE DIA. (IN)	11.25" BEND	22.5" BEND	45" BEND	90" BEND	TEE / DEAD END
12	4.34	8.64	16.95	31.32	22.15
16	7.72	15.36	30.14	55.68	39.37

UPLAND CHAPARRAL SEED MIX (0.3 ACRES)

SEED NAME	COMMON NAME	LBS/ACRE OF LIVE SEED
BROMUS CARINATUS	CALIFORNIA BROME	2
NASSELLA PULCHRA	PURPLE NEEDLEGRASS	2
LOTUS SCOPARIUS	COMMON DEERWEED	3
BACCHARIS SAROTHOIDES	BROOM BACCHARIS	15
RHAMNUS CROCEA	REDBERRY	5
SALVIA MELLIFERA	BLACK SAGE	3
ERIOGONUM FASCICULATUM	CALIFORNIA BUCKWHEAT	3
MIMULUS AURANTIACUS	STICKY MONKEY FLOWER	3

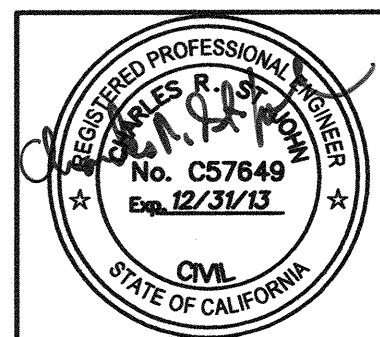


NOTE: CASING SPACERS AND JOINT STOPS OMITTED FOR CLARITY

(4) CASING PIPE CLOSURE  
N.T.S.

(5) BUTTERFLY VALVE BYPASS  
N.T.S.

**ATKINS**  
 3570 CARMEL MOUNTAIN ROAD  
 SUITE 300  
 SAN DIEGO CA, 92130  
 (858) 874-1810



CD-1

**CAMINO DEL SUR  
RECYCLED WATER CONVERSION**

DETAILS

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 13 OF 13 SHEETS		WATER WBS: <b>BI0200</b> SEWER WBS:
APPROVED BY: <i>Hose-hor</i> FOR CITY ENGINEER	DATE: <b>9.20.12</b>	CHECKED BY: <b>JOHN STOHR</b> ASSOCIATE ENGINEER
DESCRIPTION: ORIGINAL	BY: ATKINS	APPROVED: [ ]
DATE: [ ]	APPROVED: [ ]	DATE: [ ]
FILED: [ ]	APPROVED: [ ]	DATE: [ ]
CONTRACTOR: [ ]		DATE STARTED: [ ]
INSPECTOR: [ ]		DATE COMPLETED: [ ]

PROJECT ENGINEER: **N/A**  
 CCS27 COORDINATE: **N/A**  
 CCS83 COORDINATE: **36608-13-D**

CAMINO DEL SUR RECYCLED WATER CONVERSION

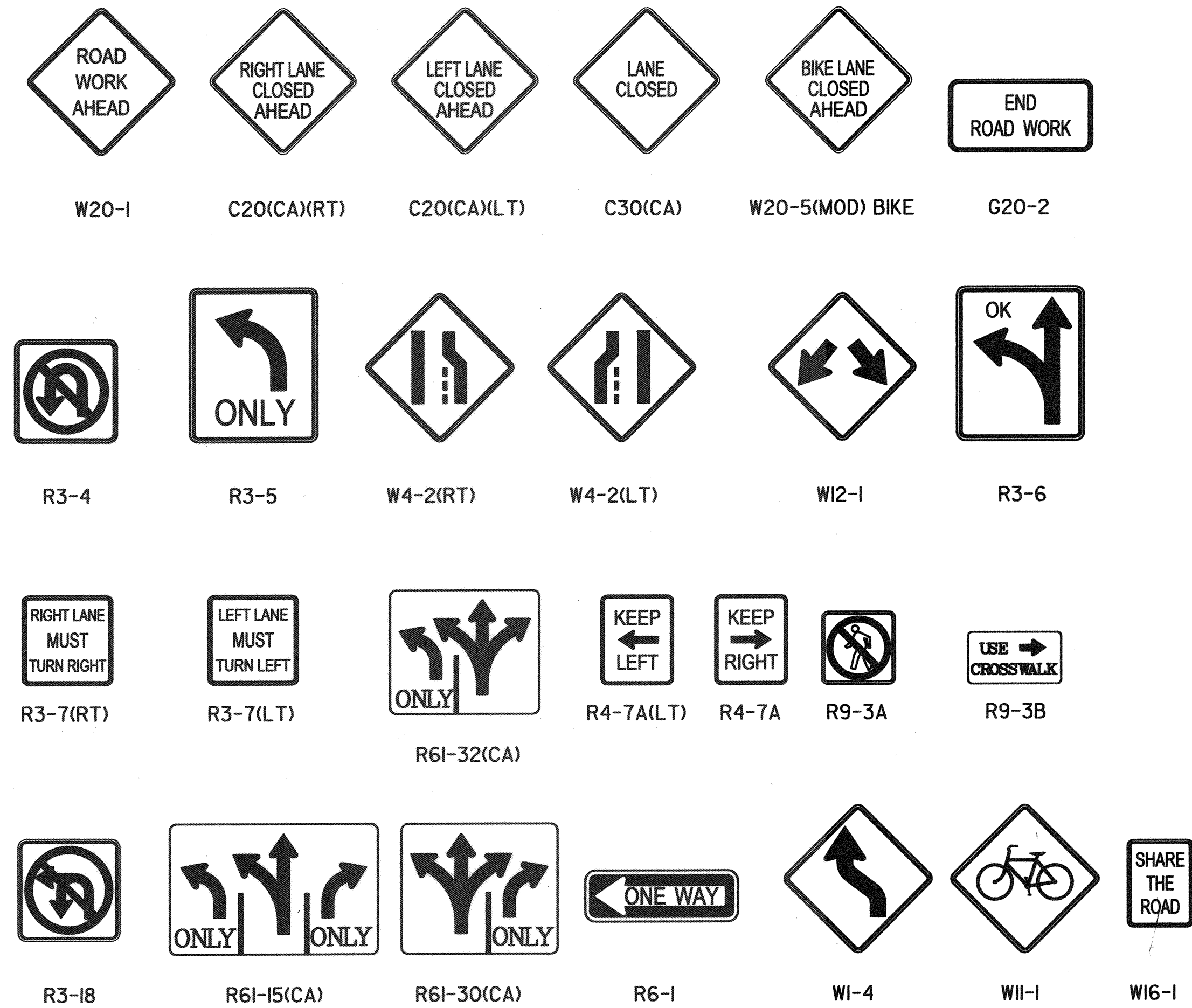


**STANDARD TRAFFIC CONTROL NOTES**

- VALIDATION. THIS TRAFFIC CONTROL PLAN IS NOT VALID UNTIL WORK DATES ARE APPROVED. THE CONTRACTOR SHALL, PER SECTION 7-10.1.3 OF THE CONTRACT SPECIAL PROVISIONS, CALL THE ENGINEER TRAFFIC CONTROL SECTION AT (858) 467-3036 TO OBTAIN A PERMIT. THE CONTRACTOR MUST CALL A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, OR FIVE (5) WORKING DAYS WHEN THE WORK WILL AFFECT A TRAFFIC SIGNAL.
- STANDARDS. THIS TRAFFIC CONTROL PLAN SHALL CONFORM TO THE MOST RECENTLY ADOPTED EDITION OF EACH OF THE FOLLOWING MANUALS:
  - CITY OF SAN DIEGO STANDARD DRAWINGS, APPENDIX 'A';
  - CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS; AND
  - STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREENBOOK"), INCLUDING REGIONAL AND CITY OF SAN DIEGO SUPPLEMENT AMENDMENTS.
- NOTIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AFFECTED AGENCIES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONSTRUCTION OR TRAFFIC CONTROL:
 

FIRE DEPARTMENT DISPATCH (STREET OR ALLEY CLOSURE)	(858) 573-1300
POLICE DEPARTMENT TRAFFIC	(STREET OR ALLEY CLOSURE) (858) 495-7800
WASTE MANAGEMENT DEPT. (REFUSE COLLECTION)	(858) 694-7000
STREET DIVISION/ELECTRICAL	(TRAFFIC SIGNALS) (619) 527-7500
SAN DIEGO TRANSIT (BUS STOPS)	(619) 595-7038
MTDB (TAXI ZONES)	(619) 235-2643
UNDERGROUND SERVICE ALERT	(ANY EXCAVATION) (800) 422-4133

THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF DRIVEWAYS. THE CONTRACTOR SHALL POST SIGNS NOTIFYING THE PUBLIC A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF STREETS.
- POSTING NO PARKING SIGNS. THE CONTRACTOR SHALL POST "TOW-AWAY/NO PARKING" SIGNS TWENTY-FOUR (24) HOURS IN ADVANCE FOR TEMPORARY PARKING REMOVAL. SIGNS SHALL INDICATE SPECIFIC DAYS, DATES, AND TIMES OF RESTRICTIONS.
- EXCAVATIONS. EXCEPT AS SHOWN ON THE PLANS, TRENCHES SHALL BE BACKFILLED OR TRENCH-PLATED AT THE END OF EACH WORK DAY. AN ASPHALT RAMP SHALL BE PLACED AROUND EACH TRENCH PLATE TO PREVENT THE PLATE FROM BEING DISLODGED. UPON COMPLETION OF EXCAVATION BACKFILL, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY SURFACE FOR TRAFFIC. WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROCESS, THE CONTRACTOR SHALL MAINTAIN ALL TRAVEL LANES OPEN TO TRAFFIC, EXCEPT AS SHOWN ON THE PLANS.
- RESTORATION OF TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL REPAIR OR REPLACE TRAFFIC CONTROL DEVICES (INCLUDING TRAFFIC SIGNS, STRIPING, PAVEMENT MARKERS, PAVEMENT MARKINGS, LEGENDS, CURB MARKINGS, LOOP DETECTORS, TRAFFIC SIGNAL EQUIPMENT, ETC.) DAMAGED OR REMOVED AS A RESULT OF OPERATIONS AND NOT DESIGNATED FOR REMOVAL. REPAIRS AND REPLACEMENTS SHALL BE EQUAL TO EXISTING IMPROVEMENTS. LOOP DETECTORS SHALL BE REPLACED WITHIN THREE (3) WORKING DAYS OF COMPLETION OF UNDERGROUND WORK.
- CHANGES IN WORK. THE RESIDENT ENGINEER WILL OBSERVE THESE TRAFFIC CONTROL PLANS IN OPERATION AND RESERVES THE RIGHT TO MAKE CHANGES AS THE FIELD CONDITIONS WARRANT. SUCH CHANGES SHALL SUPERSEDE THESE PLANS.
- FOR WORK NOT COVERED BY THESE TRAFFIC CONTROL PLANS. THE CONTRACTOR SHALL PER SECTION 7-10.1.1 OF THE CONTRACT SPECIAL PROVISIONS, PREPARE TRAFFIC CONTROL SHOP DRAWINGS AND SUBMIT THEM TO THE RESIDENT ENGINEER. THE CONTRACTOR SHALL ALLOW A MINIMUM OF TWENTY (20) WORKING DAYS FOR REVIEW OF THE SHOP DRAWINGS. UPON APPROVAL OF THE TRAFFIC CONTROL PLAN, THE ENGINEERING TRAFFIC CONTROL SECTION WILL ISSUE A TRAFFIC CONTROL PLAN (TCP) PERMIT FOR THIS WORK.



**SYMBOL LIST**

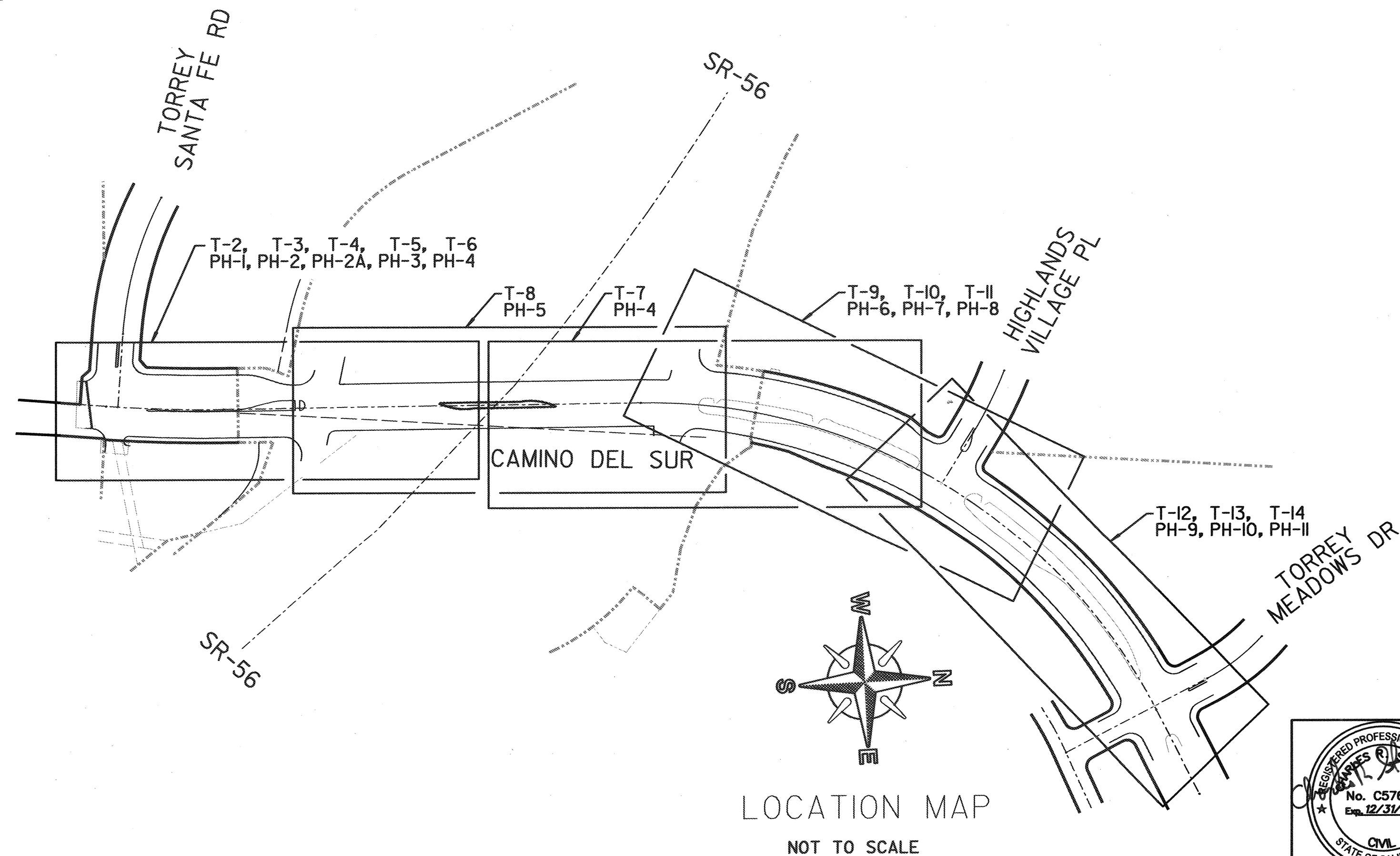
- WORK AREA
- SIGNALIZED INTERSECTION
- TRAFFIC CONTROL SIGN
- CONE
- TYPE II BARRICADE
- FLASHING ARROW SIGN (FAS)
- TRAFFIC DIRECTION
- NTS NOT TO SCALE

**TRASH COLLECTION NOTES**

- CONTRACTOR SHALL COORDINATE FOR TRASH COLLECTION FOR ALL FULL OR PARTIAL STREET CLOSURES THAT WOULD RESULT IN THE INABILITY OF A GARBAGE TRUCK TO ACCESS ITS NORMAL ROUTE. COORDINATION MAY INCLUDE, BUT NOT BE LIMITED TO:
- MOVE TRASH FROM PRIVATE PROPERTY OWNERS TO AN APPROVED COLLECTION POINT OUTSIDE THE WORK AREA.
  - ARRANGING TO REMOVE TRASH BY CONTRACTOR.
  - SCHEDULE WORK TO AVOID LIMITING ACCESS FOR TRASH COLLECTION.
- ADVANCE NOTICES TO PROPERTY OWNERS AND TENANTS AS REQUIRED BY STANDARD TRAFFIC CONTROL NOTE 3, THIS SHEET, SHALL INCLUDE INFORMATION ABOUT TRASH COLLECTION, IF AFFECTED. IN NO CASE SHALL PROPERTY OWNERS BE REQUIRED TO MOVE THEIR OWN TRASH TO ALTERNATE COLLECTION POINTS. CONTRACTOR IS RESPONSIBLE TO MOVE TRASH IF AN ALTERNATE COLLECTION POINT IS TO BE USED.

**GENERAL NOTES**

- WORKING HOURS TO BE DETERMINED AT THE TIME OF TRAFFIC CONTROL PERMIT ISSUANCE.
- CONTRACTOR TO MEET WITH CITY RESIDENT ENGINEER TWO (2) WEEKS PRIOR TO CONCRETE POURS OVER 500 YARDS.



<b>CAMINO DEL SUR RECYCLED WATER CONVERSION</b>			
TRAFFIC CONTROL PLANS TITLE SHEET			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 1 OF 14 SHEETS		WATER WBS: <b>BI0200</b>	SEWER WBS:
FOR CITY ENGINEER: <i>David Abucan</i> 9/21/2012		DESIGNED BY: <b>JOHN STOHR</b> ASSOCIATE ENGINEER	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	ATKINS		
		PROJECT ENGINEER	
		SEE SHEETS	
		CCS27 COORDINATE	
		SEE SHEETS	
		CCS83 COORDINATE	
CONTRACTOR	DATE STARTED	36608-T1-D	
INSPECTOR	DATE COMPLETED		

**CAMINO DEL SUR RECYCLED WATER CONVERSION**

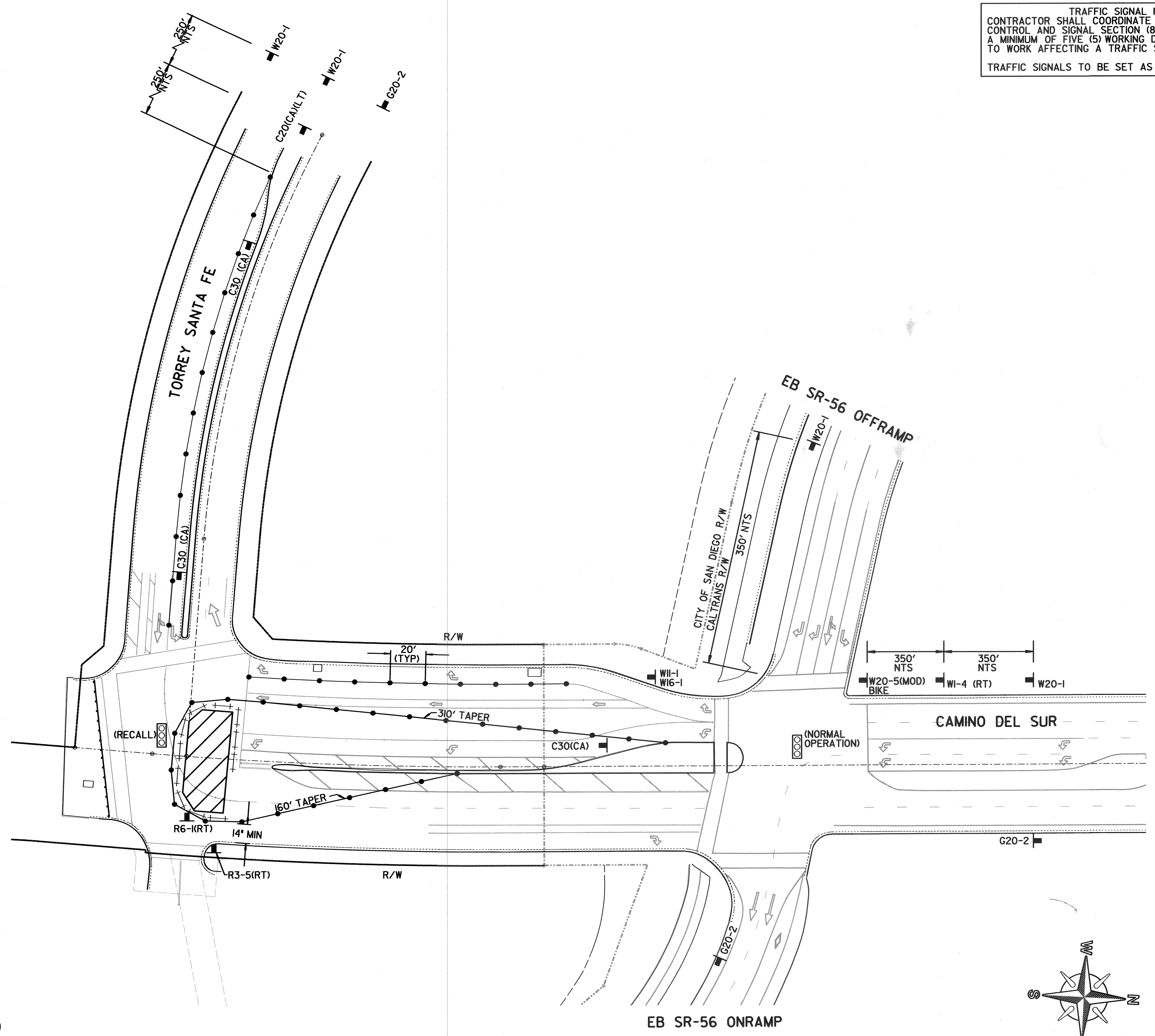


CAMINO DEL SUR RECYCLED WATER CONVERSION

TRAFFIC SIGNAL NOTE:  
 CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858) 467-3036 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNALS TO BE SET AS SHOWN.

STANDARD TRAFFIC CONTROL NOTES  
 SEE SHEET T-1

WORK HOURS: 9:00 AM TO 4:00 PM

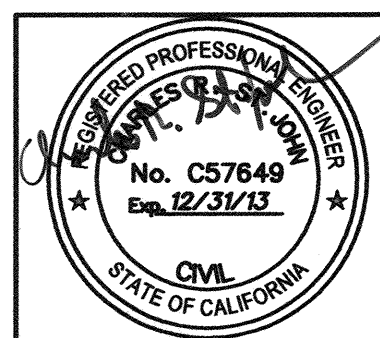
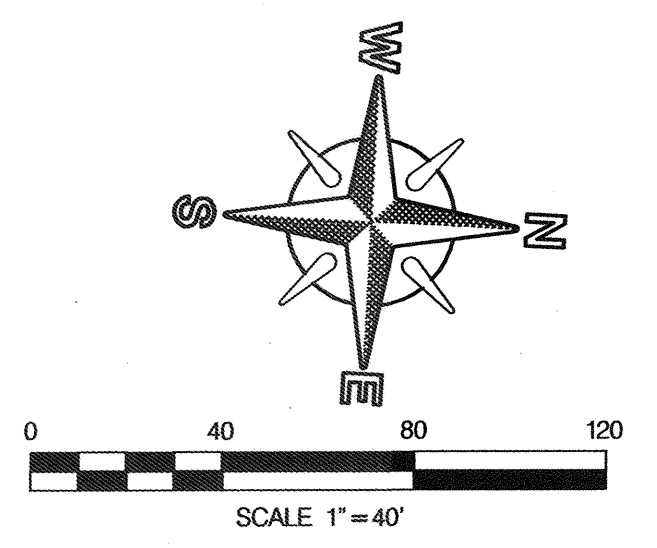


- SYMBOL LIST
- WORK AREA
  - SIGNALIZED INTERSECTION
  - TRAFFIC CONTROL SIGN
  - CONE
  - TYPE II BARRICADE
  - FLASHING ARROW SIGN (FAS)
  - TRAFFIC DIRECTION
  - NTS NOT TO SCALE

T-2

**CAMINO DEL SUR RECYCLED WATER CONVERSION**  
 TRAFFIC CONTROL PLANS FOR:  
**CAMINO DEL SUR, PHASE 1**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 2 OF 14 SHEETS		WATER WBS: <b>BIO200</b> SEWER WBS:			
FOR CITY ENGINEER: <i>Amjed Aburaweh</i> DATE: <b>9/28/2012</b>		DESIGNED BY: <b>JOHN STOHR</b> ASSOCIATE ENGINEER			
DESCRIPTION	BY	APPROVED	DATE	FILED	ORDERED BY:
ORIGINAL	ATKINS				PROJECT ENGINEER
					<b>286-1719</b> CCS27 COORDINATE
					<b>1926-6284</b> CCS83 COORDINATE
CONTRACTOR	DATE STARTED		DATE COMPLETED		<b>36608-T2 -D</b>
INSPECTOR					



**ATKINS**  
 3570 CARMEL MOUNTAIN ROAD  
 SUITE 300  
 SAN DIEGO CA, 92130  
 (858) 874-1810

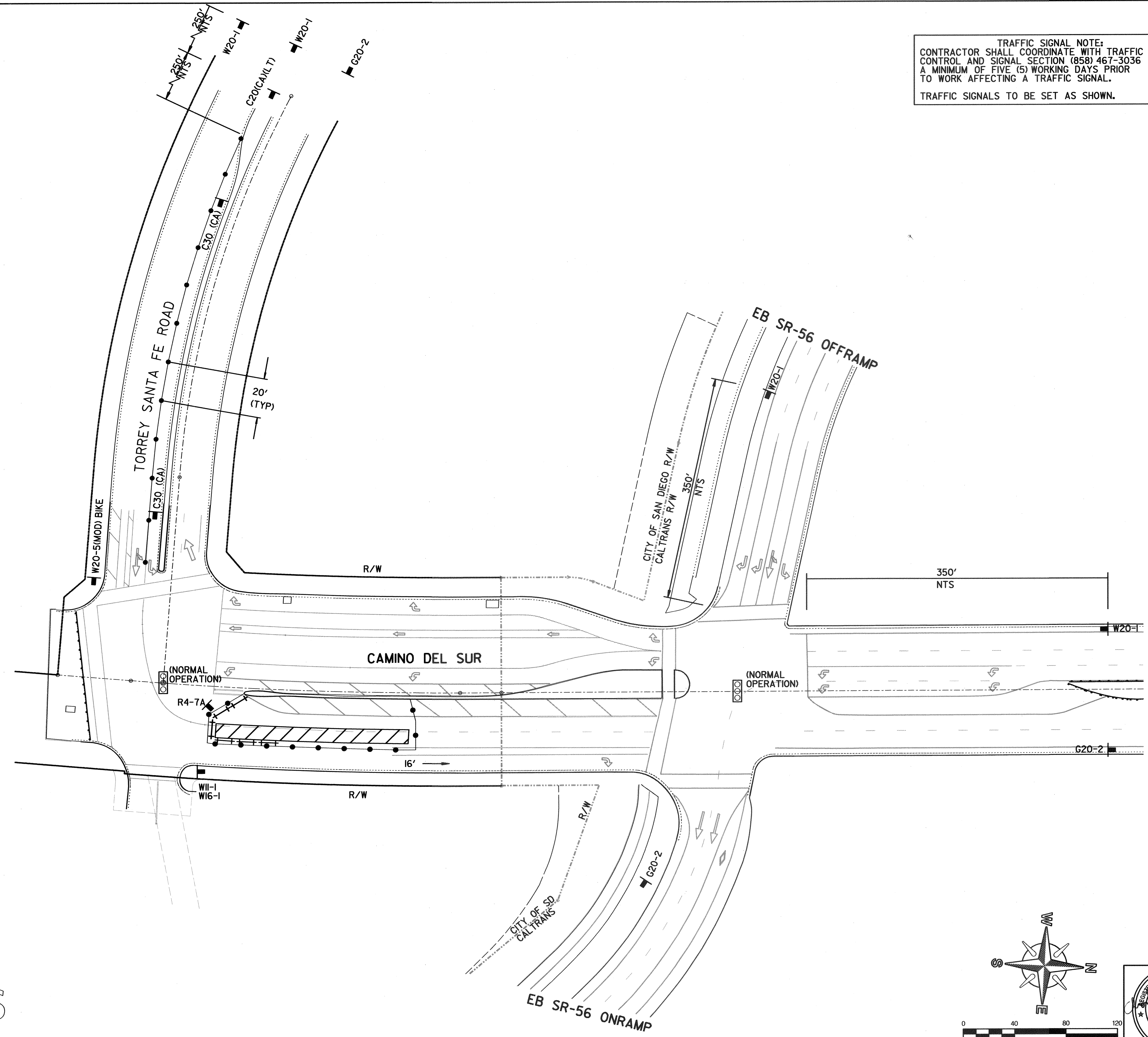
CAMINO DEL SUR RECYCLED WATER CONVERSION

TRAFFIC SIGNAL NOTE:  
 CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858) 467-3036 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNALS TO BE SET AS SHOWN.

STANDARD TRAFFIC CONTROL NOTES

SEE SHEET T-1

WORK HOURS: 9:00 AM TO 4:00 PM

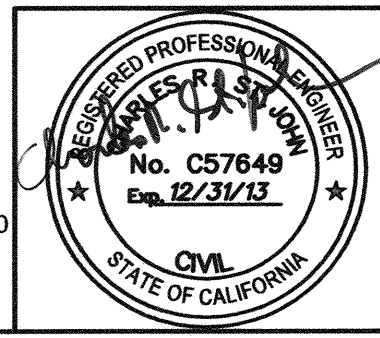
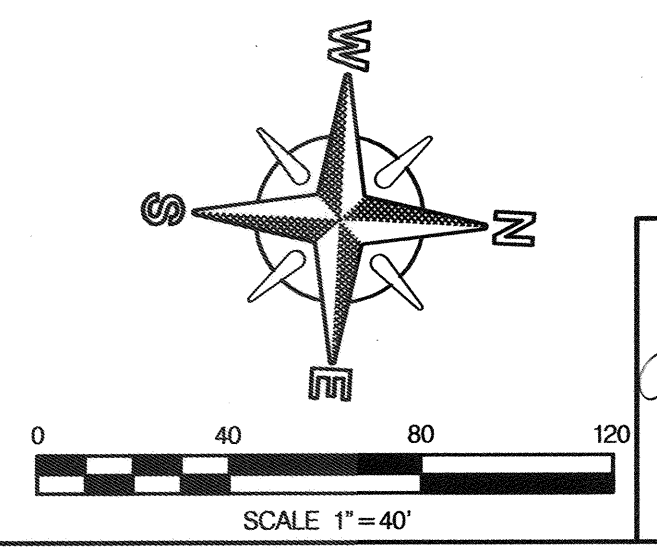


SYMBOL LIST

- WORK AREA
- SIGNALIZED INTERSECTION
- TRAFFIC CONTROL SIGN
- CONE
- TYPE II BARRICADE
- FLASHING ARROW SIGN (FAS)
- TRAFFIC DIRECTION
- NOT TO SCALE

T-3

CAMINO DEL SUR RECYCLED WATER CONVERSION			
TRAFFIC CONTROL PLANS FOR: CAMINO DEL SUR, PHASE 2			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 3 OF 14 SHEETS			WATER WBS: BIO200 SEWER WBS:
FOR CITY ENGINEER: <i>Ahmed Abuamah</i> 9/28/2012			SUBMITTED BY: JOHN STOHR ASSOCIATE ENGINEER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	ATKINS		
CHECKED BY:			PROJECT ENGINEER
			286-1719
			CCS27 COORDINATE
			1929-6284
			CCS83 COORDINATE
CONTRACTOR	DATE STARTED	36608-T3-D	
INSPECTOR	DATE COMPLETED		



**ATKINS**  
 3570 CARMEL MOUNTAIN ROAD  
 SUITE 300  
 SAN DIEGO, CA, 92130  
 (858) 874-1810



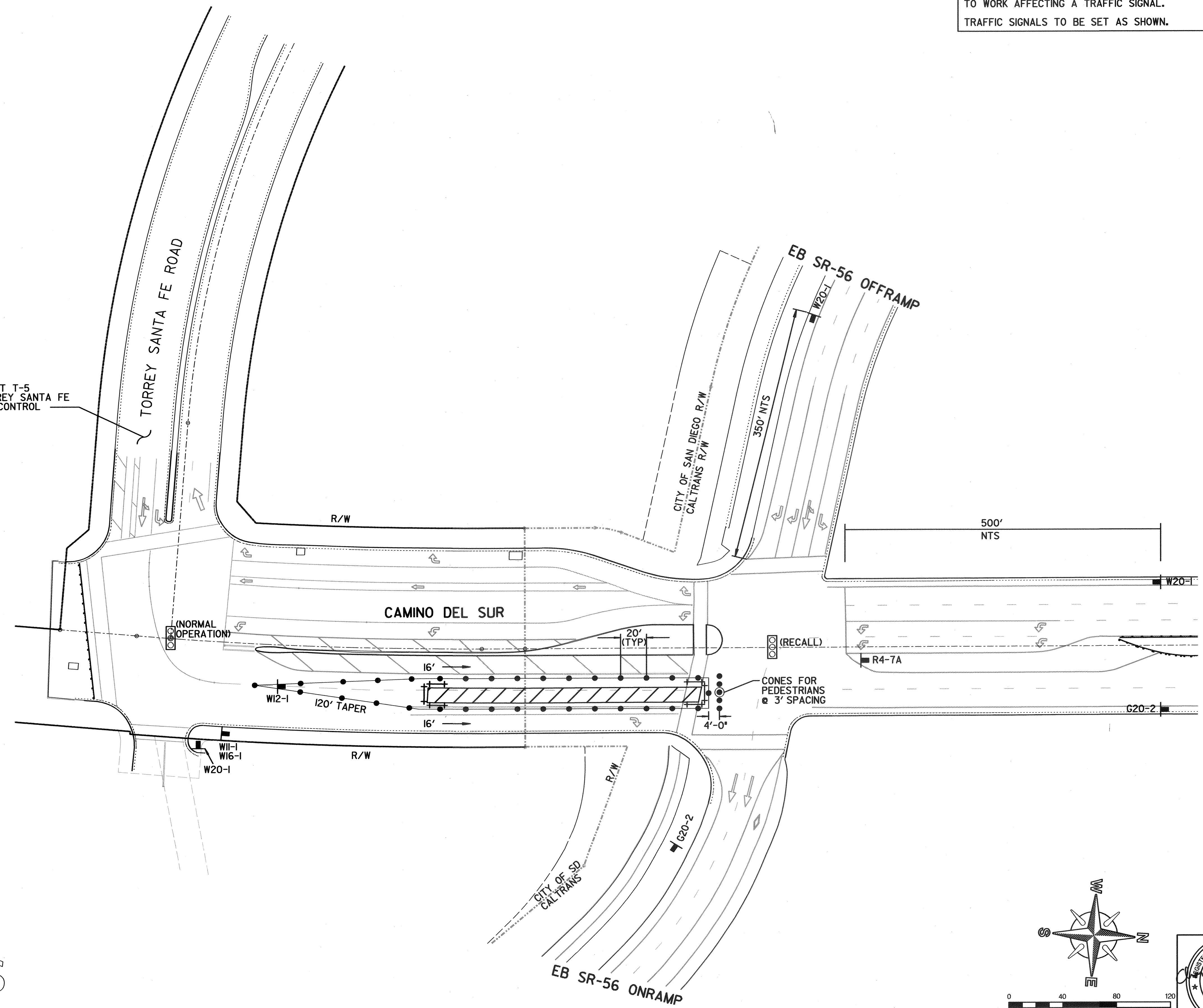
TRAFFIC SIGNAL NOTE:  
 CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858) 467-3036 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNALS TO BE SET AS SHOWN.

STANDARD TRAFFIC CONTROL NOTES

SEE SHEET T-1

WORK HOURS: 9:00 AM TO 4:00 PM

SEE SHEET T-5 FOR TORREY SANTA FE TRAFFIC CONTROL



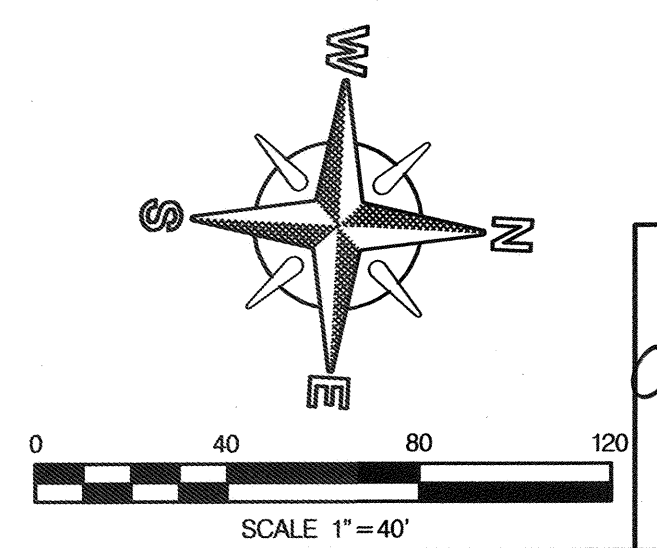
SYMBOL LIST

- WORK AREA
- SIGNALIZED INTERSECTION
- TRAFFIC CONTROL SIGN
- CONE
- TYPE II BARRICADE
- FLASHING ARROW SIGN (FAS)
- TRAFFIC DIRECTION
- NTS NOT TO SCALE

T-4

**CAMINO DEL SUR RECYCLED WATER CONVERSION**  
 TRAFFIC CONTROL PLANS FOR:  
**CAMINO DEL SUR, PHASE 2A**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 4 OF 14 SHEETS		WATER WBS: <b>BIO200</b> SEWER WBS:			
APPROVED BY: <i>John Stohr</i> 9/28/2012 FOR CITY ENGINEER		DESIGNED BY: <b>JOHN STOHR</b> ASSOCIATE ENGINEER			
DESCRIPTION	BY	APPROVED	DATE	FILMED	CHECKED BY:
ORIGINAL	ATKINS				PROJECT ENGINEER
					<b>286-1719</b> CCS27 COORDINATE
					<b>1929-6284</b> CCS83 COORDINATE
CONTRACTOR	DATE STARTED	36608-T4-D			
INSPECTOR	DATE COMPLETED				



**ATKINS**  
 3570 CARMEL MOUNTAIN ROAD  
 SUITE 300  
 SAN DIEGO CA, 92130  
 (858) 874-1810

CAMINO DEL SUR RECYCLED WATER CONVERSION

CAMINO DEL SUR RECYCLED WATER CONVERSION

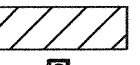


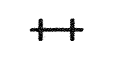



**TRAFFIC SIGNAL NOTE:**  
 CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858) 467-3036 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNALS TO BE SET AS SHOWN.

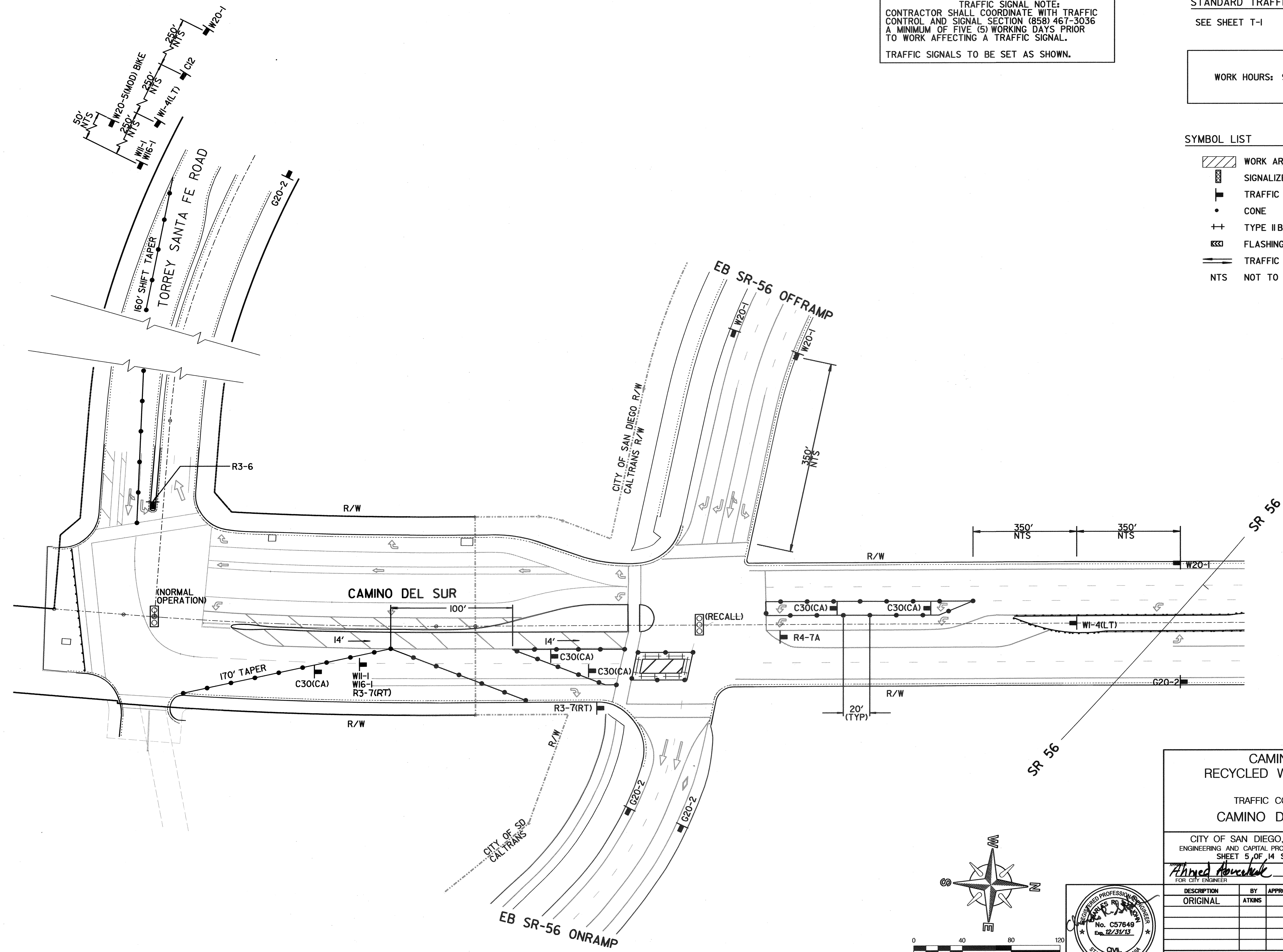
**STANDARD TRAFFIC CONTROL NOTES**

SEE SHEET T-1

WORK HOURS: 9:00 AM TO 4:00 PM

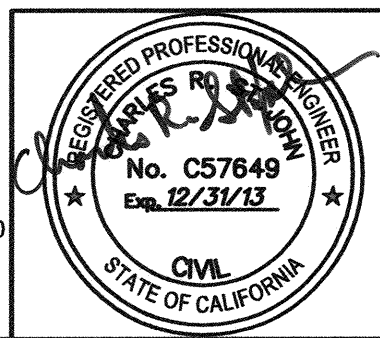
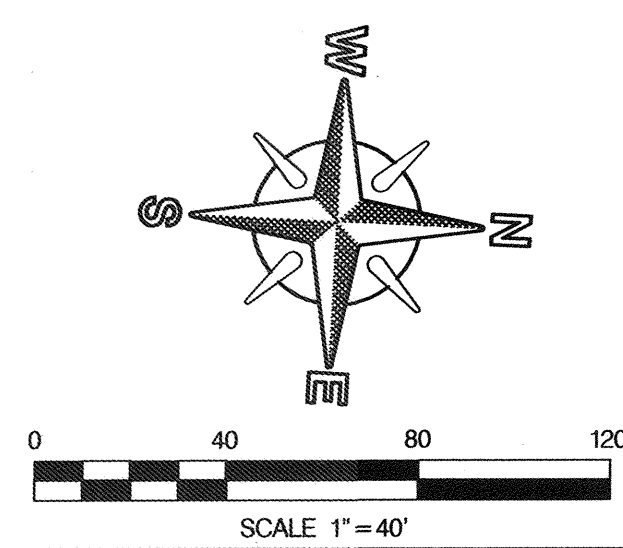
**SYMBOL LIST**

-  WORK AREA
-  SIGNALIZED INTERSECTION
-  TRAFFIC CONTROL SIGN
-  CONE
-  TYPE II BARRICADE
-  FLASHING ARROW SIGN (FAS)
-  TRAFFIC DIRECTION
- NTS NOT TO SCALE



T-5

<b>CAMINO DEL SUR RECYCLED WATER CONVERSION</b>			
TRAFFIC CONTROL PLANS FOR: CAMINO DEL SUR, PHASE 3			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 5 OF 14 SHEETS		WATER WBS: BIO200 SEWER WBS: _____	
FOR CITY ENGINEER: <i>Ahmed Hameed</i> 9/28/2012		CHECKED BY: JOHN STOHR ASSOCIATE ENGINEER	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	ATKINS		
PROJECT ENGINEER		286-1719	
CCS27 COORDINATE		1929-6284	
CCS83 COORDINATE		36608-T5-D	
CONTRACTOR	DATE STARTED	36608-T5-D	
INSPECTOR	DATE COMPLETED		



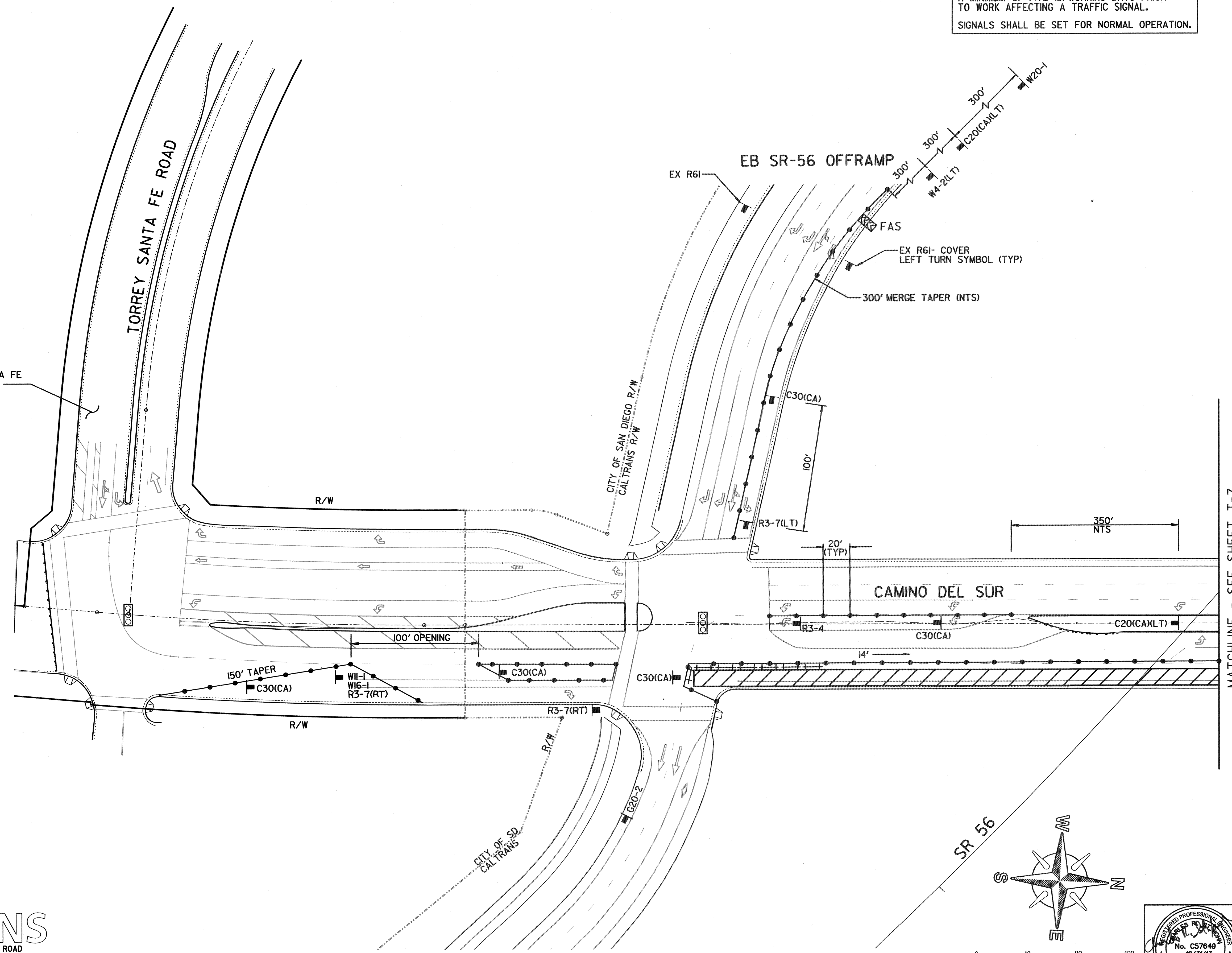


TRAFFIC SIGNAL NOTE:  
 CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858) 467-3036 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 SIGNALS SHALL BE SET FOR NORMAL OPERATION.

STANDARD TRAFFIC CONTROL NOTES  
 SEE SHEET T-1

WORK HOURS: 9:00 AM TO 4:00 PM

SEE SHEET T-5 FOR TORREY SANTA FE TRAFFIC CONTROL



- SYMBOL LIST**
- WORK AREA
  - SIGNALIZED INTERSECTION
  - TRAFFIC CONTROL SIGN
  - CONE
  - TYPE II BARRICADE
  - FLASHING ARROW SIGN (FAS)
  - TRAFFIC DIRECTION
  - NTS NOT TO SCALE

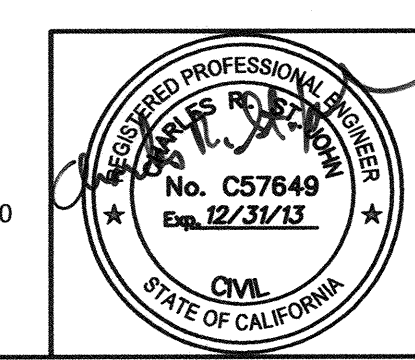
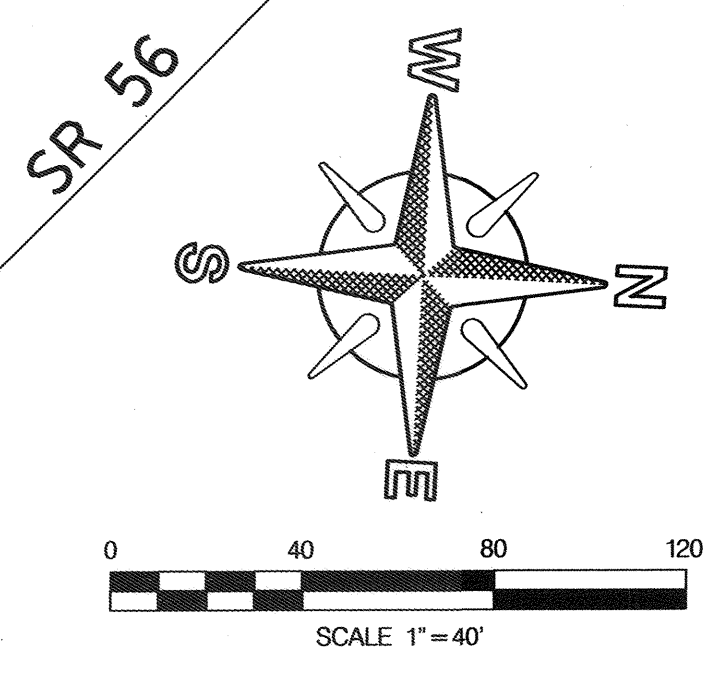
MATCHLINE - SEE SHEET T-7

T-6

**CAMINO DEL SUR RECYCLED WATER CONVERSION**

TRAFFIC CONTROL PLANS FOR:  
**CAMINO DEL SUR, PHASE 4**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 6 OF 14 SHEETS		WATER WBS: BIO200 SEWER WBS:
FOR CITY ENGINEER: <i>Ahmed Hameed</i> 9/28/2012	DATE	ASSOCIATE ENGINEER: JOHN STOHR
DESCRIPTION: ORIGINAL	BY: ATKINS	PROJECT ENGINEER: 286-1719
	APPROVED: [Signature]	CCS27 COORDINATE: 1929-6284
	DATE: [Blank]	CCS83 COORDINATE: 36608-T6-D
CONTRACTOR: [Blank]	DATE STARTED: [Blank]	DATE COMPLETED: [Blank]



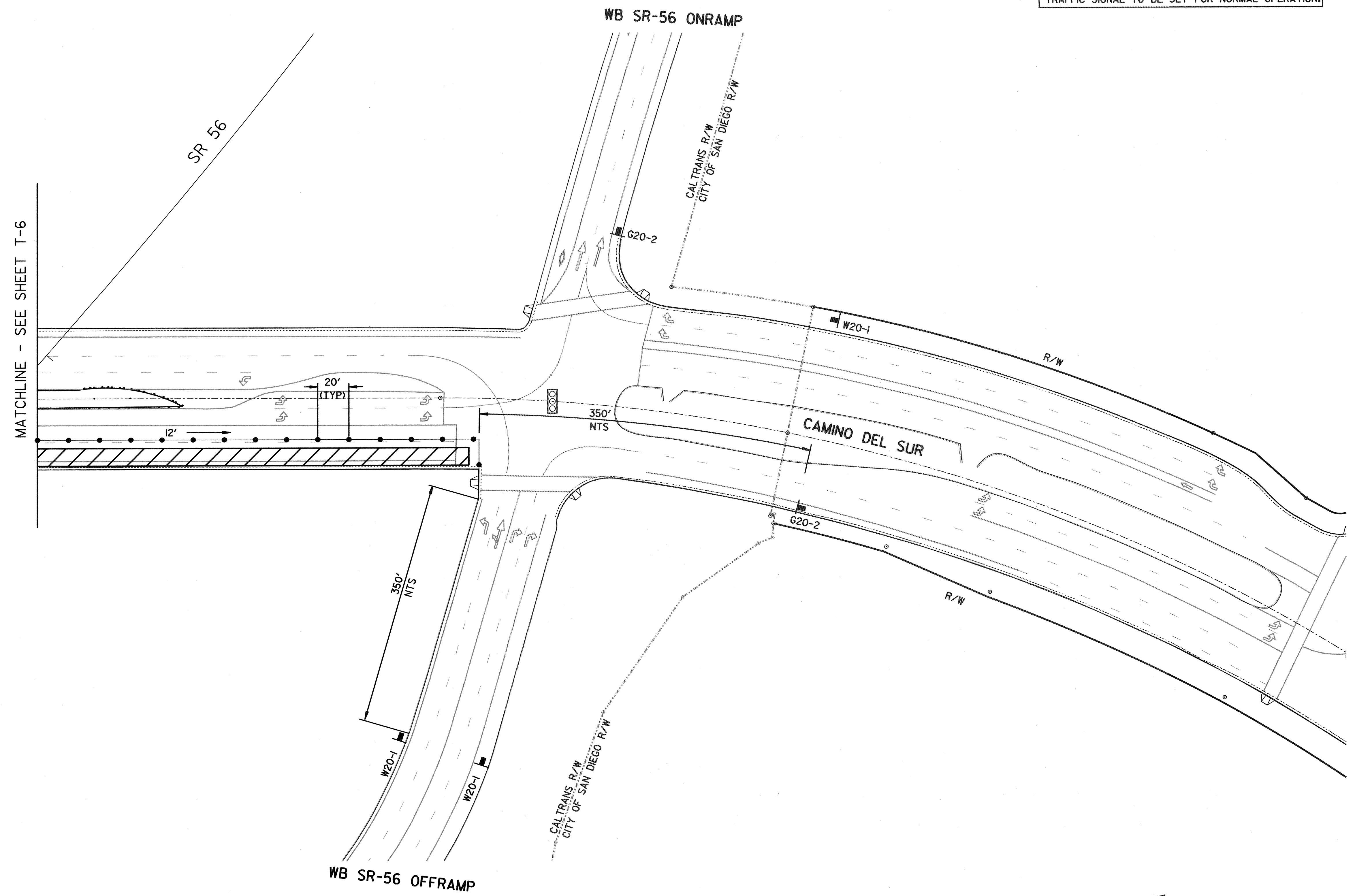
**ATKINS**  
 3570 CARMEL MOUNTAIN ROAD  
 SUITE 300  
 SAN DIEGO, CA, 92130  
 (858) 874-1810

CAMINO DEL SUR RECYCLED WATER CONVERSION

TRAFFIC SIGNAL NOTE:  
 CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858) 467-3036 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNAL TO BE SET FOR NORMAL OPERATION.

STANDARD TRAFFIC CONTROL NOTES  
 SEE SHEET T-1

WORK HOURS: 9:00 AM TO 4:00 PM



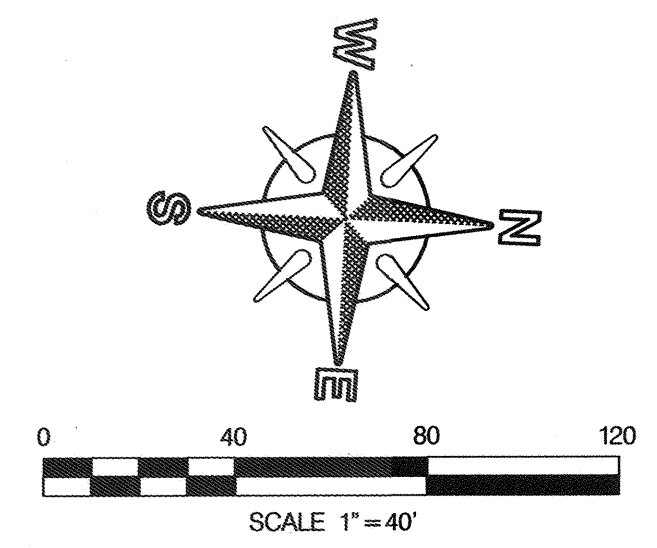
- SYMBOL LIST
- WORK AREA
  - SIGNALIZED INTERSECTION
  - TRAFFIC CONTROL SIGN
  - CONE
  - TYPE II BARRICADE
  - FLASHING ARROW SIGN (FAS)
  - TRAFFIC DIRECTION
  - NTS NOT TO SCALE

T-7

**CAMINO DEL SUR  
 RECYCLED WATER CONVERSION**

TRAFFIC CONTROL PLANS FOR:  
**CAMINO DEL SUR, PHASE 4**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 7 OF 14 SHEETS		WATER WBS: <b>BIO200</b> SEWER WBS:		
FOR CITY ENGINEER: <i>Muhammad Ahmad</i> 9/28/2012		DESIGNED BY: <b>JOHN STOHR</b> ASSOCIATE ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	ATKINS			
		PROJECT ENGINEER		
		280-1719		
		CCS27 COORDINATE		
		1929-6284		
		CCS83 COORDINATE		
CONTRACTOR	DATE STARTED	36608-T7 -D		
INSPECTOR	DATE COMPLETED			



**ATKINS**  
 3570 CARMEL MOUNTAIN ROAD  
 SUITE 300  
 SAN DIEGO, CA, 92130  
 (858) 874-1810

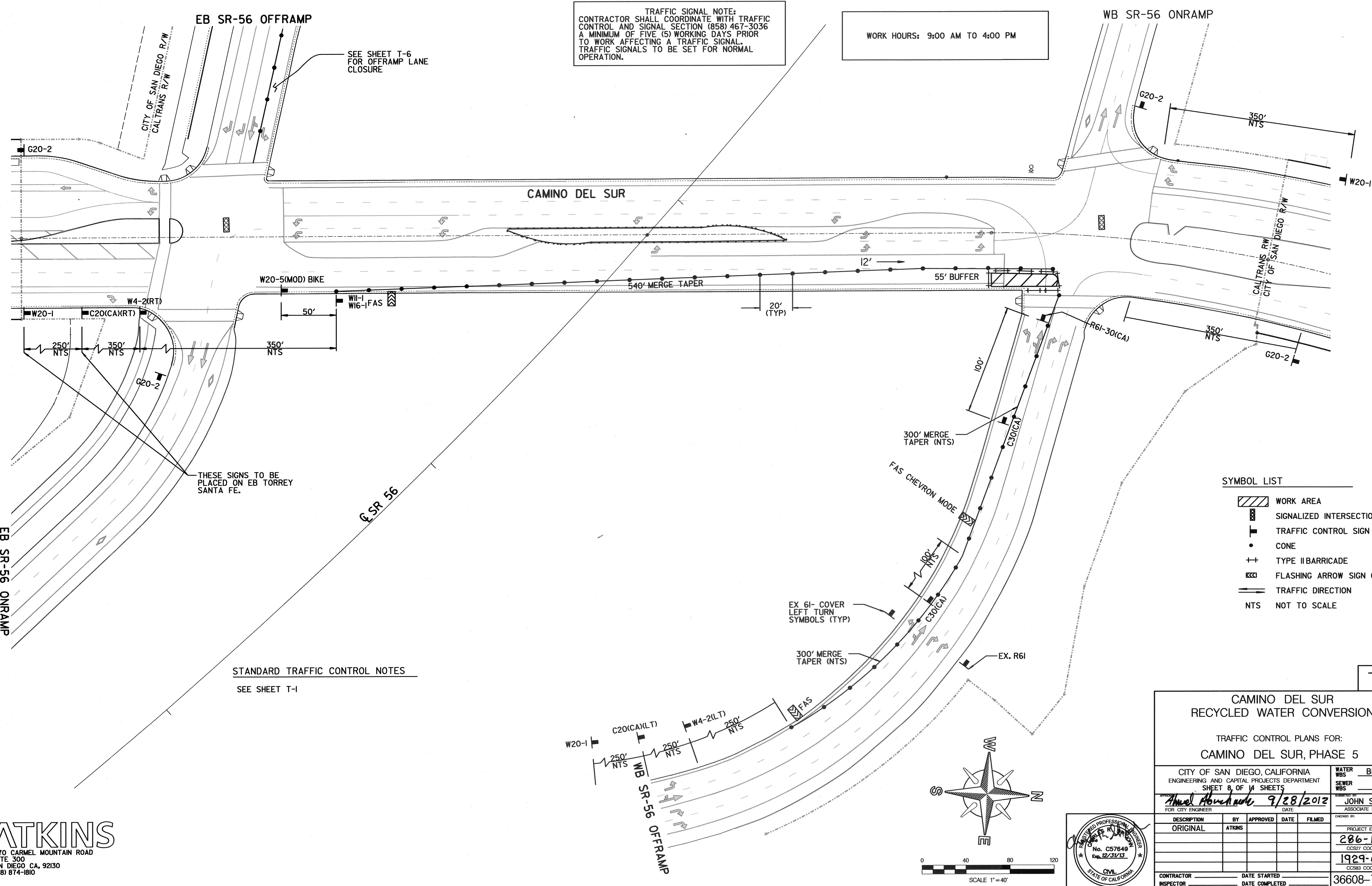
CAMINO DEL SUR RECYCLED WATER CONVERSION



CAMINO DEL SUR RECYCLED WATER CONVERSION

TRAFFIC SIGNAL NOTE:  
 CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858) 467-3036 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL. TRAFFIC SIGNALS TO BE SET FOR NORMAL OPERATION.

WORK HOURS: 9:00 AM TO 4:00 PM



THESE SIGNS TO BE PLACED ON EB TORREY SANTA FE.

STANDARD TRAFFIC CONTROL NOTES  
 SEE SHEET T-1

- SYMBOL LIST**
- WORK AREA
  - SIGNALIZED INTERSECTION
  - TRAFFIC CONTROL SIGN
  - CONE
  - TYPE II BARRICADE
  - FLASHING ARROW SIGN (FAS)
  - TRAFFIC DIRECTION
  - NTS NOT TO SCALE

T-8

**CAMINO DEL SUR RECYCLED WATER CONVERSION**

TRAFFIC CONTROL PLANS FOR:  
**CAMINO DEL SUR, PHASE 5**

CITY OF SAN DIEGO, CALIFORNIA  
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT  
 SHEET 8 OF 14 SHEETS

FOR CITY ENGINEER: *Amel Abuchadeh* 9/28/2012  
 DATE: 9/28/2012

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	ATKINS			

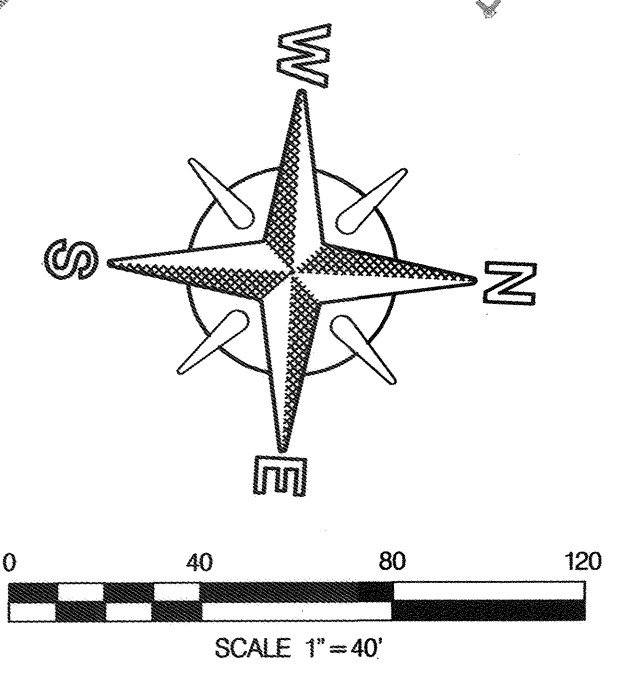
WATER WBS: **BIO200**  
 SEWER WBS: \_\_\_\_\_

PROJECT ENGINEER: **JOHN STOHR**  
 ASSOCIATE ENGINEER

PROJECT NUMBER: **286-1719**  
 CCS27 COORDINATE: **1929-6284**  
 CCS83 COORDINATE: \_\_\_\_\_

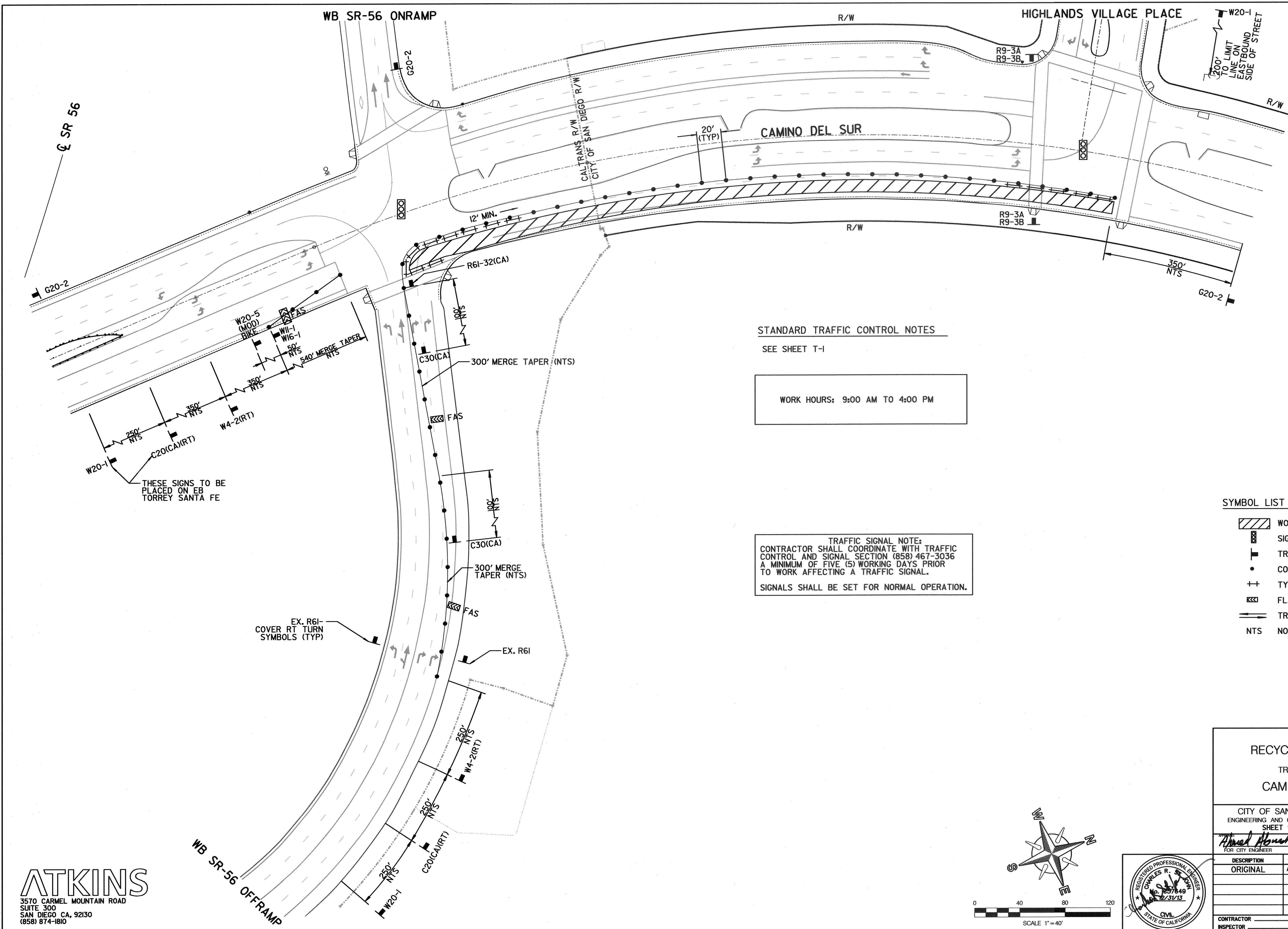
CONTRACTOR: \_\_\_\_\_ DATE STARTED: \_\_\_\_\_  
 INSPECTOR: \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_

36608-T8-D



**ATKINS**  
 3570 CARMEL MOUNTAIN ROAD  
 SUITE 300  
 SAN DIEGO, CA, 92130  
 (858) 874-1810





STANDARD TRAFFIC CONTROL NOTES  
SEE SHEET T-1

WORK HOURS: 9:00 AM TO 4:00 PM

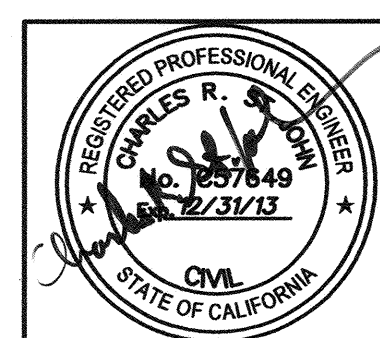
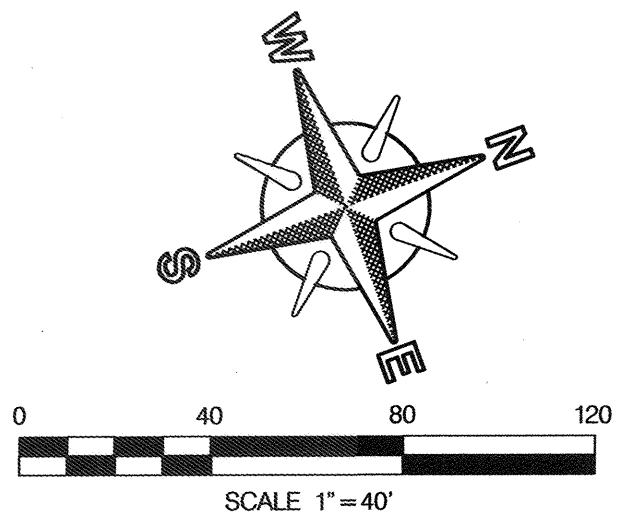
TRAFFIC SIGNAL NOTE:  
CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858) 467-3036 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
SIGNALS SHALL BE SET FOR NORMAL OPERATION.

- SYMBOL LIST**
- WORK AREA
  - SIGNALIZED INTERSECTION
  - TRAFFIC CONTROL SIGN
  - CONE
  - TYPE II BARRICADE
  - FLASHING ARROW SIGN (FAS)
  - TRAFFIC DIRECTION
  - NOT TO SCALE

THESE SIGNS TO BE PLACED ON EB TORREY SANTA FE

EX. R61-COVER RT TURN SYMBOLS (TYP)

**ATKINS**  
3570 CARMEL MOUNTAIN ROAD  
SUITE 300  
SAN DIEGO, CA, 92130  
(858) 874-1810

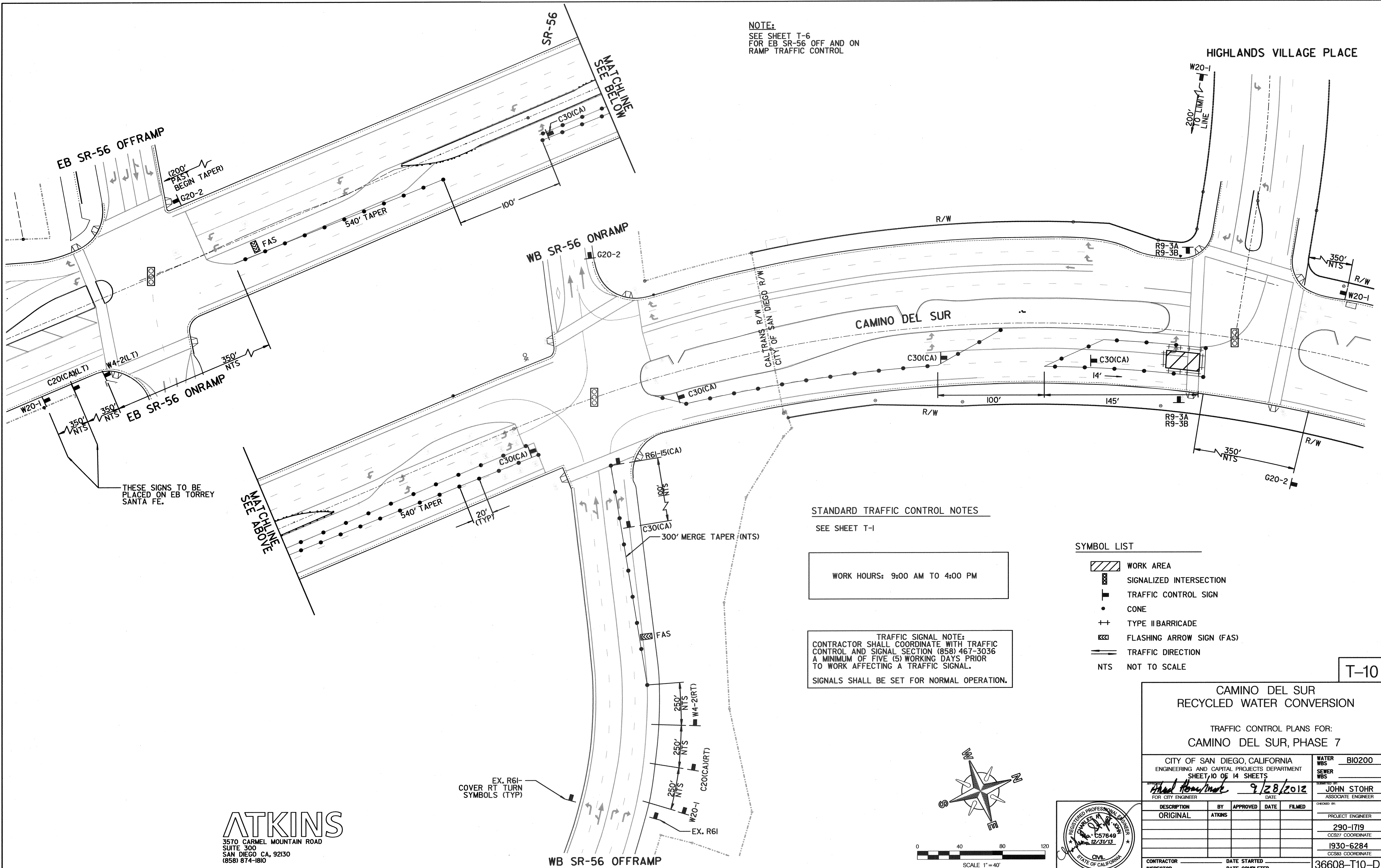


<b>T-9</b> CAMINO DEL SUR RECYCLED WATER CONVERSION TRAFFIC CONTROL PLANS FOR: CAMINO DEL SUR, PHASE 6			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 9 OF 14 SHEETS		WATER WBS: <b>BIO200</b> SEWER WBS:	
FOR CITY ENGINEER: <i>Amal Aboukhalil</i> 9/28/2012		CHECKED BY: <b>JOHN STOHR</b> ASSOCIATE ENGINEER	
DESCRIPTION ORIGINAL	BY ATKINS	APPROVED DATE	FILMED DATE
CONTRACTOR:		DATE STARTED:	DATE COMPLETED:
INSPECTOR:		36608-T9-D	PROJECT ENGINEER: 290-1719 CCS27 COORDINATE: 1930-6284 CCS83 COORDINATE:



CAMINO DEL SUR RECYCLED WATER CONVERSION

NOTE:  
SEE SHEET T-6  
FOR EB SR-56 OFF AND ON  
RAMP TRAFFIC CONTROL



THESE SIGNS TO BE  
PLACED ON EB TORREY  
SANTA FE.

STANDARD TRAFFIC CONTROL NOTES

SEE SHEET T-1

WORK HOURS: 9:00 AM TO 4:00 PM

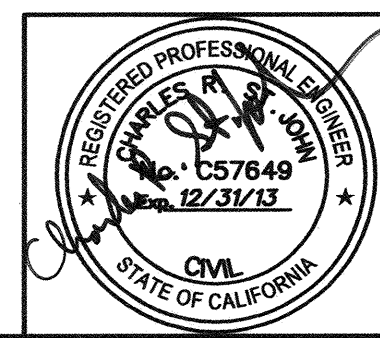
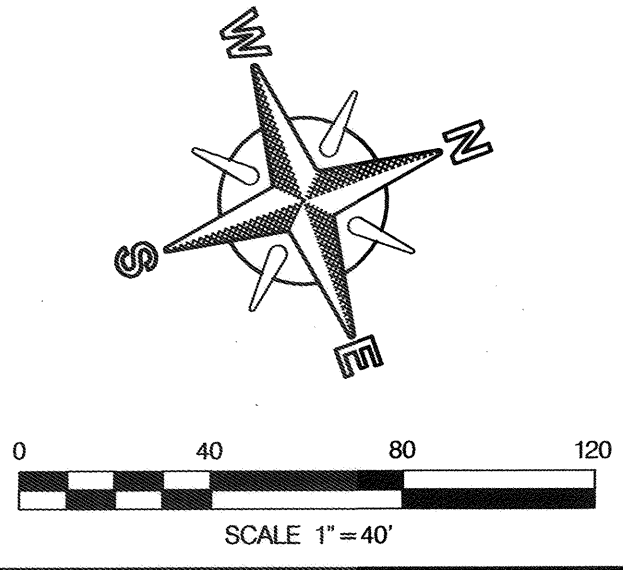
TRAFFIC SIGNAL NOTE:  
CONTRACTOR SHALL COORDINATE WITH TRAFFIC  
CONTROL AND SIGNAL SECTION (858) 467-3036  
A MINIMUM OF FIVE (5) WORKING DAYS PRIOR  
TO WORK AFFECTING A TRAFFIC SIGNAL.  
SIGNALS SHALL BE SET FOR NORMAL OPERATION.

SYMBOL LIST

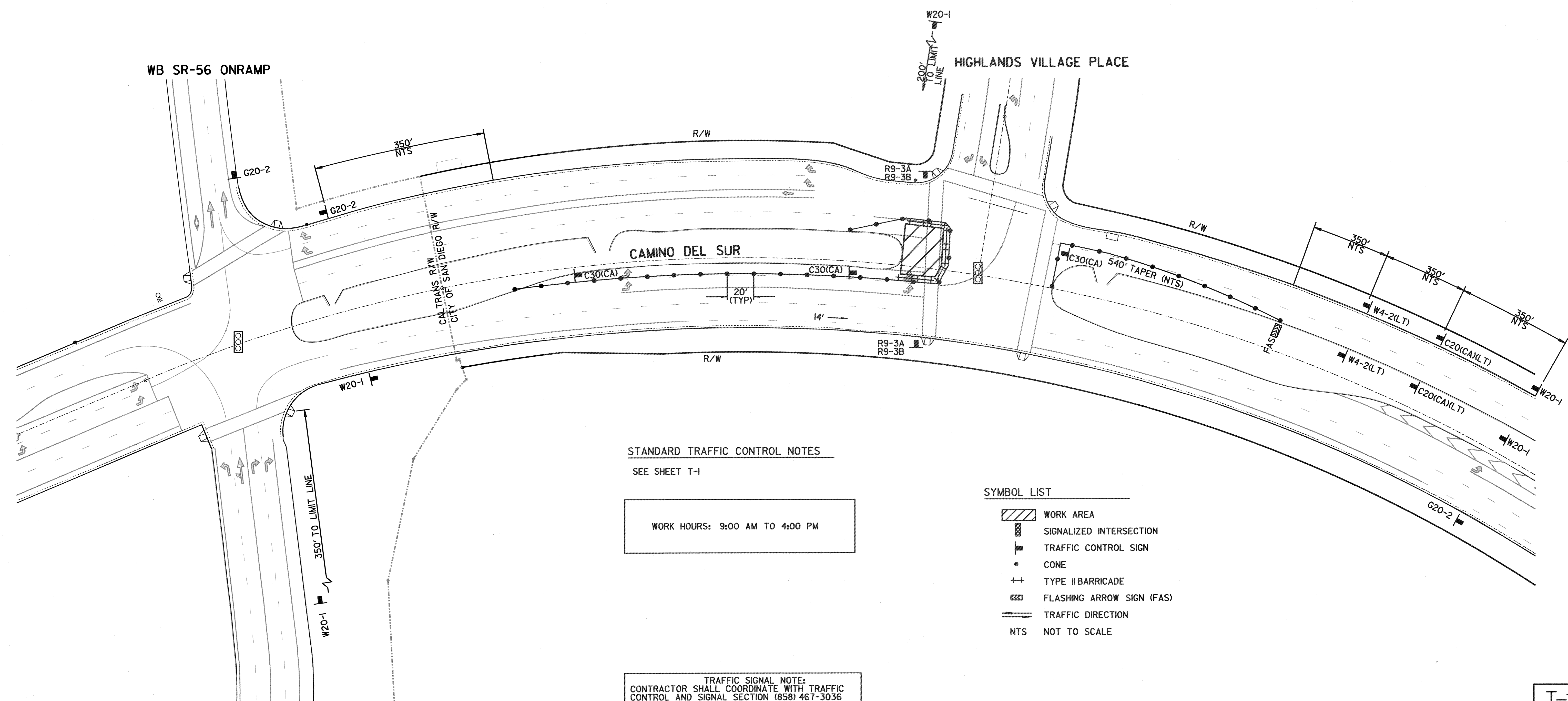
- WORK AREA
- SIGNALIZED INTERSECTION
- TRAFFIC CONTROL SIGN
- CONE
- TYPE II BARRICADE
- FLASHING ARROW SIGN (FAS)
- TRAFFIC DIRECTION
- NTS NOT TO SCALE

T-10

**ATKINS**  
3570 CARMEL MOUNTAIN ROAD  
SUITE 300  
SAN DIEGO CA, 92130  
(619) 874-1810



CAMINO DEL SUR RECYCLED WATER CONVERSION				
TRAFFIC CONTROL PLANS FOR: CAMINO DEL SUR, PHASE 7				
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 10 OF 14 SHEETS			WATER WBS: <b>BIO200</b>	SEWER WBS:
FOR CITY ENGINEER: <i>Handwritten Signature</i> DATE: <b>9/28/2012</b>			FOR ENGINEER: <b>JOHN STOHR</b> ASSOCIATE ENGINEER	
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	ATKINS			
CONTRACTOR: <b>290-1719</b>			PROJECT ENGINEER	
INSPECTOR: <b>1930-6284</b>			CCS27 COORDINATE	
DATE STARTED			DATE COMPLETED	
36608-T10-D				



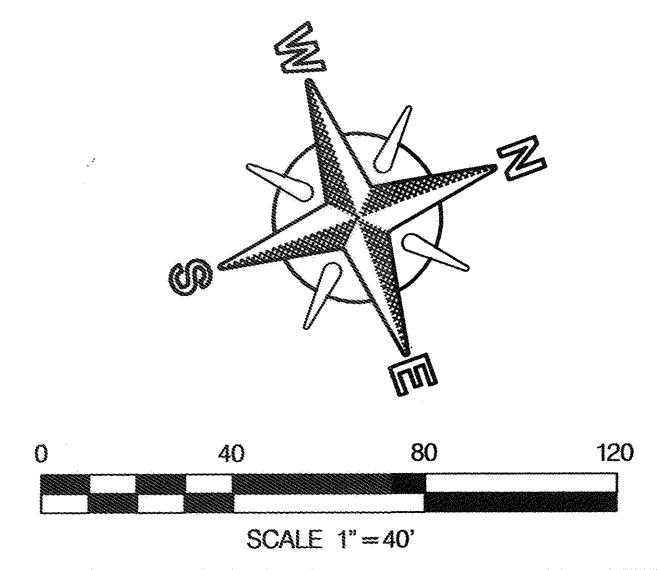
WORK HOURS: 9:00 AM TO 4:00 PM

- SYMBOL LIST
- WORK AREA
  - SIGNALIZED INTERSECTION
  - TRAFFIC CONTROL SIGN
  - CONE
  - TYPE II BARRICADE
  - FLASHING ARROW SIGN (FAS)
  - TRAFFIC DIRECTION
  - NTS NOT TO SCALE

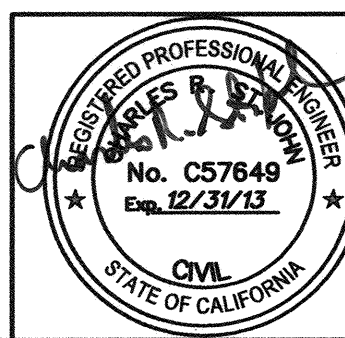
TRAFFIC SIGNAL NOTE:  
CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858) 467-3036 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
SIGNALS SHALL BE SET FOR NORMAL OPERATION.

T-11

CAMINO DEL SUR RECYCLED WATER CONVERSION			
TRAFFIC CONTROL PLANS FOR: CAMINO DEL SUR, PHASE 8			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 11 OF 14 SHEETS			WATER WBS BIO200 SEWER WBS
FOR CITY ENGINEER <i>Amud Alomrah</i> 9/28/2012			DATE 9/28/2012
CHECKED BY: PROJECT ENGINEER			JOHN STOHR ASSOCIATE ENGINEER
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	ATKINS		
PROJECT ENGINEER			290-1719 CCS27 COORDINATE
CONTRACTOR			1930-6284 CCS83 COORDINATE
INSPECTOR		DATE STARTED	DATE COMPLETED
			36608-T11-D



**ATKINS**  
3570 CARMEL MOUNTAIN ROAD  
SUITE 300  
SAN DIEGO, CA, 92130  
(858) 874-1810

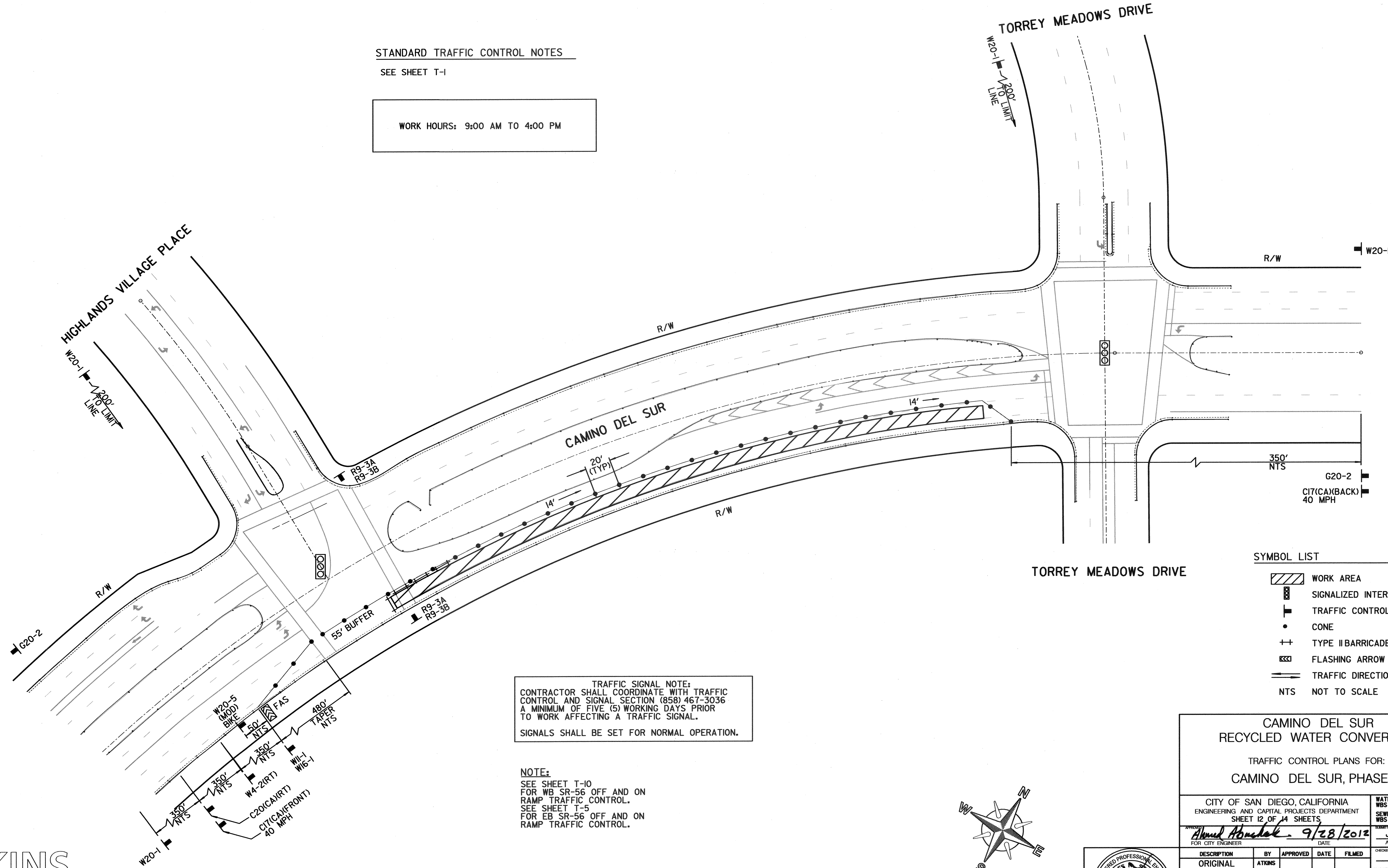




STANDARD TRAFFIC CONTROL NOTES

SEE SHEET T-1

WORK HOURS: 9:00 AM TO 4:00 PM



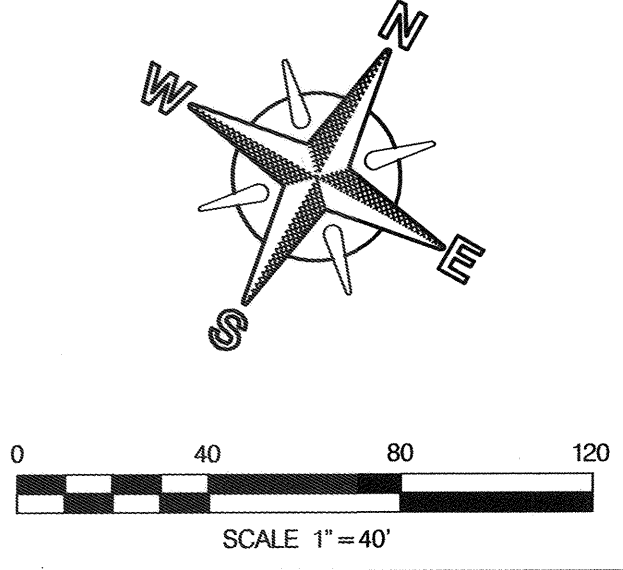
- SYMBOL LIST**
- WORK AREA
  - SIGNALIZED INTERSECTION
  - TRAFFIC CONTROL SIGN
  - CONE
  - TYPE II BARRICADE
  - FLASHING ARROW SIGN (FAS)
  - TRAFFIC DIRECTION
  - NTS NOT TO SCALE

**TRAFFIC SIGNAL NOTE:**  
 CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858) 467-3036 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 SIGNALS SHALL BE SET FOR NORMAL OPERATION.

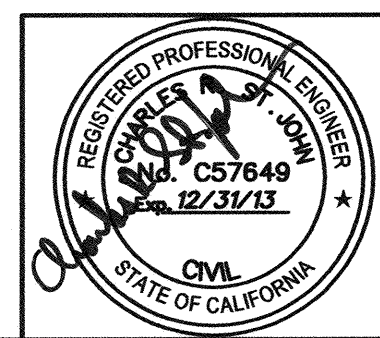
**NOTE:**  
 SEE SHEET T-10 FOR WB SR-56 OFF AND ON RAMP TRAFFIC CONTROL.  
 SEE SHEET T-5 FOR EB SR-56 OFF AND ON RAMP TRAFFIC CONTROL.

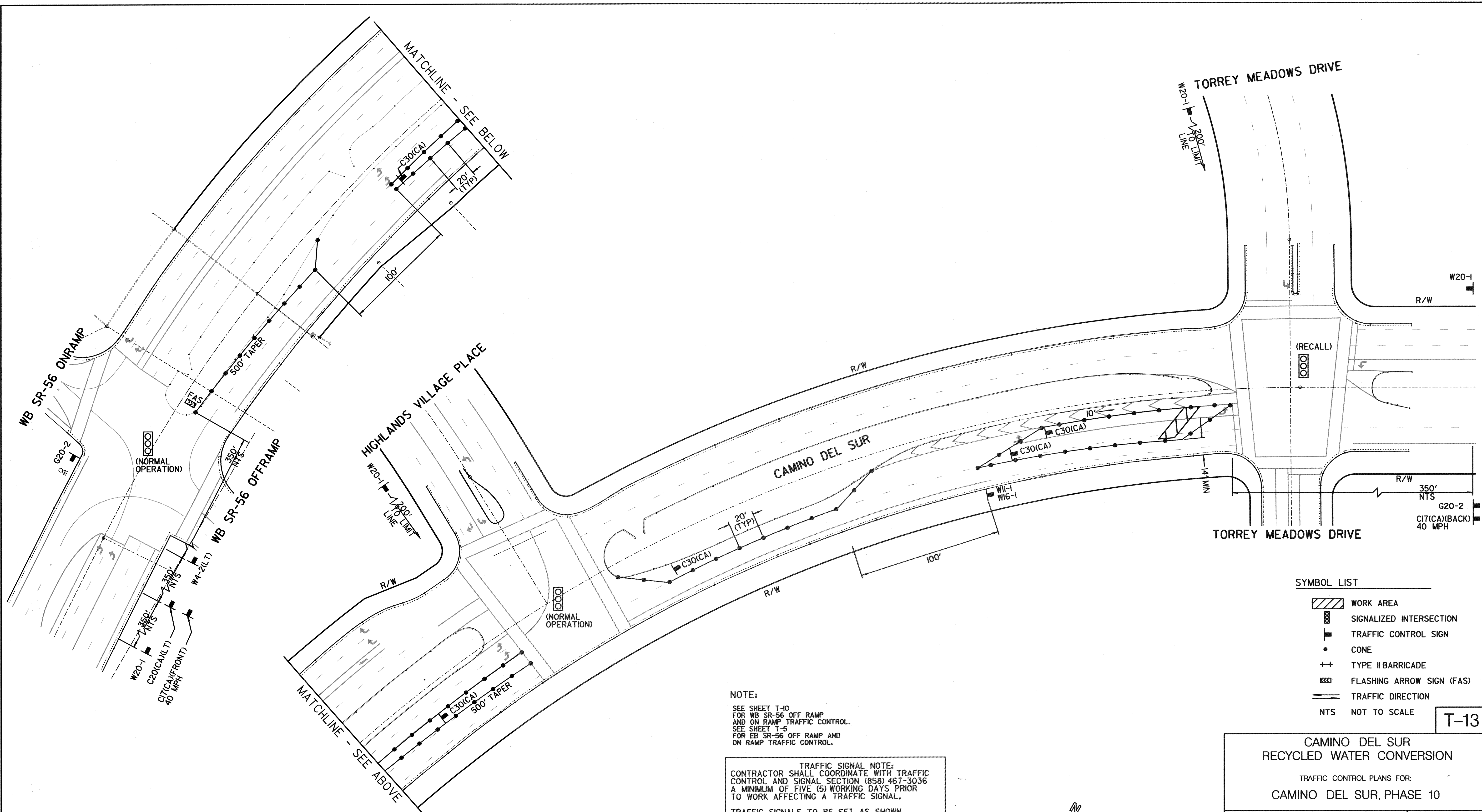
T-12

CAMINO DEL SUR RECYCLED WATER CONVERSION			
TRAFFIC CONTROL PLANS FOR: CAMINO DEL SUR, PHASE 9			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 12 OF 14 SHEETS		WATER WBS: <b>BI0200</b>	SEWER WBS:
APPROVED BY: <i>Amud Rana</i> FOR CITY ENGINEER	DATE: <b>9/28/2012</b>	DESIGNED BY: <b>JOHN STOHR</b> ASSOCIATE ENGINEER	CHECKED BY:
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	ATKINS		
CONTRACTOR	DATE STARTED	PROJECT ENGINEER	
INSPECTOR	DATE COMPLETED	290-1719 CCS27 COORDINATE	
		1930-6284 CCS83 COORDINATE	
		36608-T12-D	



**ATKINS**  
 3570 CARMEL MOUNTAIN ROAD  
 SUITE 300  
 SAN DIEGO CA, 92130  
 (858) 874-1810





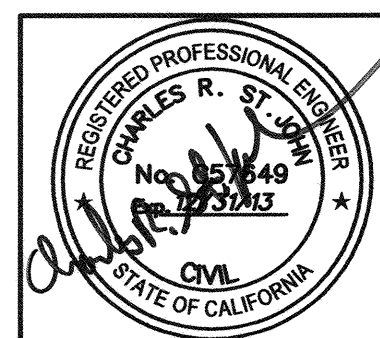
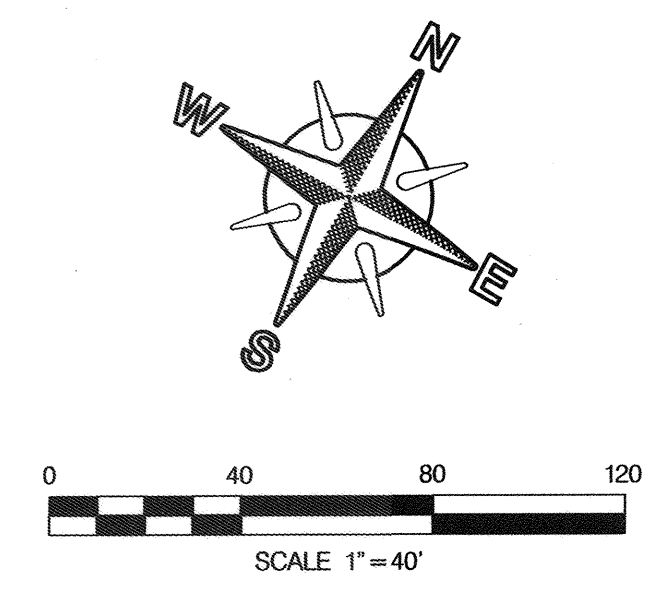
- SYMBOL LIST**
- WORK AREA
  - SIGNALIZED INTERSECTION
  - TRAFFIC CONTROL SIGN
  - CONE
  - TYPE II BARRICADE
  - FLASHING ARROW SIGN (FAS)
  - TRAFFIC DIRECTION
  - NTS NOT TO SCALE

**NOTE:**  
 SEE SHEET T-10  
 FOR WB SR-56 OFF RAMP  
 AND ON RAMP TRAFFIC CONTROL.  
 SEE SHEET T-5  
 FOR EB SR-56 OFF RAMP AND  
 ON RAMP TRAFFIC CONTROL.

**TRAFFIC SIGNAL NOTE:**  
 CONTRACTOR SHALL COORDINATE WITH TRAFFIC  
 CONTROL AND SIGNAL SECTION (858) 467-3036  
 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR  
 TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNALS TO BE SET AS SHOWN.

**STANDARD TRAFFIC CONTROL NOTES**  
 SEE SHEET T-1

**WORK HOURS:** 9:00 AM TO 4:00 PM



<b>CAMINO DEL SUR RECYCLED WATER CONVERSION</b>			
TRAFFIC CONTROL PLANS FOR: <b>CAMINO DEL SUR, PHASE 10</b>			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 13 OF 14 SHEETS		WATER WBS: <b>BI0200</b>	SEWER WBS:
FOR CITY ENGINEER: <i>Michael Hernandez</i> DATE: <b>9/28/2013</b>		BY: <b>JOHN STOHR</b> ASSOCIATE ENGINEER	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	ATKINS		
CONTRACTOR		DATE STARTED	DATE COMPLETED
INSPECTOR			
		PROJECT ENGINEER	<b>290-1719</b>
		CCS27 COORDINATE	<b>1930-6284</b>
		CCS83 COORDINATE	<b>36608-T13-D</b>

**ATKINS**  
 3570 CARMEL MOUNTAIN ROAD  
 SUITE 300  
 SAN DIEGO, CA, 92130  
 (858) 874-1810

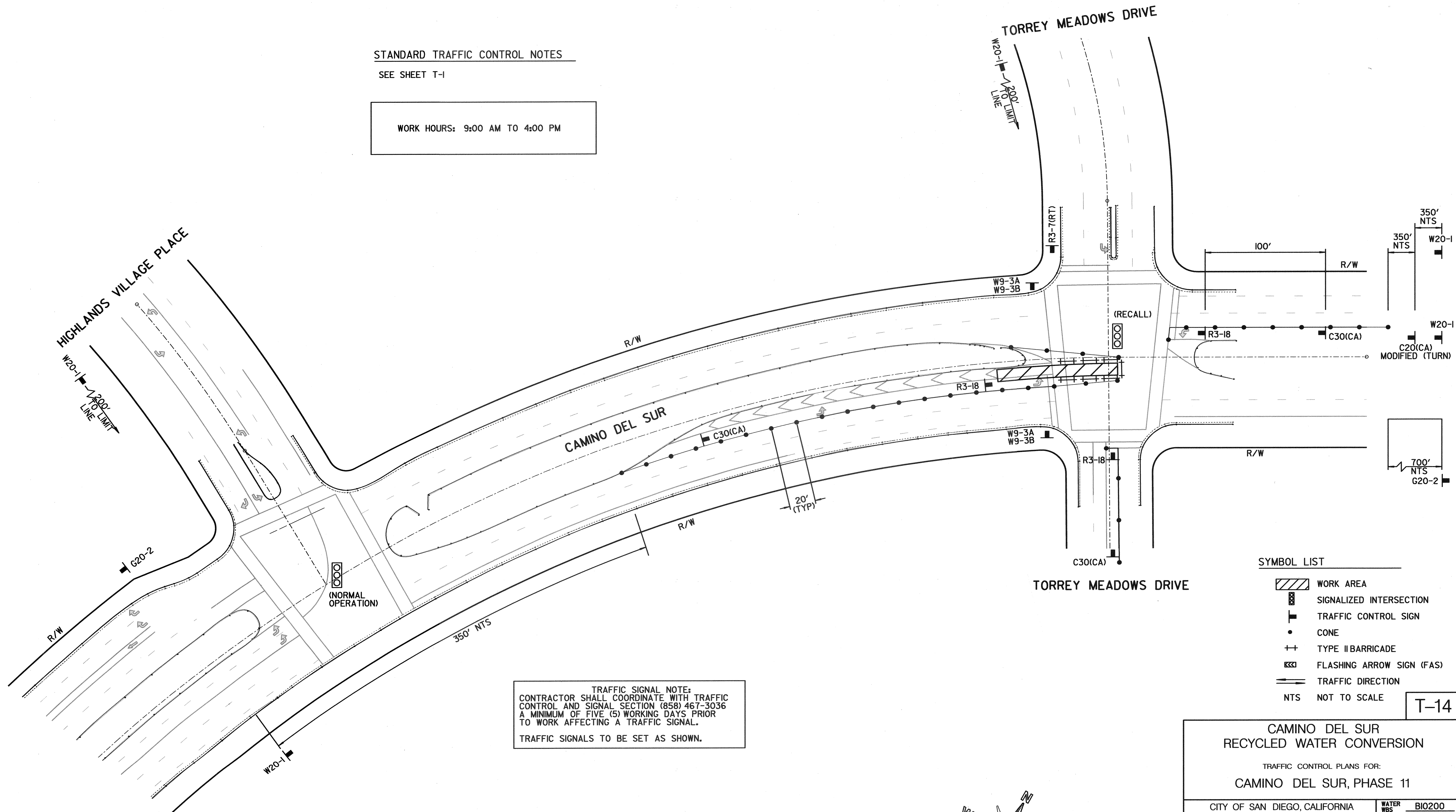


CAMINO DEL SUR RECYCLED WATER CONVERSION

STANDARD TRAFFIC CONTROL NOTES

SEE SHEET T-1

WORK HOURS: 9:00 AM TO 4:00 PM



TRAFFIC SIGNAL NOTE:  
 CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858) 467-3036 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.  
 TRAFFIC SIGNALS TO BE SET AS SHOWN.

SYMBOL LIST

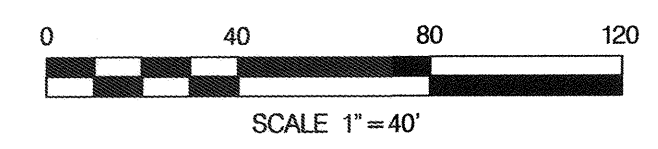
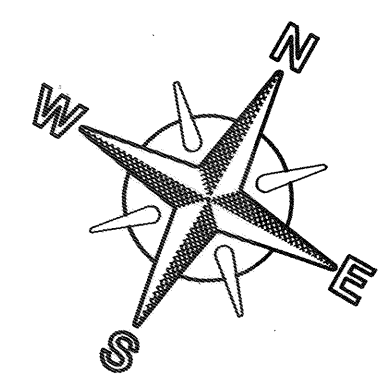
- WORK AREA
- SIGNALIZED INTERSECTION
- TRAFFIC CONTROL SIGN
- CONE
- TYPE II BARRICADE
- FLASHING ARROW SIGN (FAS)
- TRAFFIC DIRECTION
- NTS NOT TO SCALE

T-14

**CAMINO DEL SUR RECYCLED WATER CONVERSION**

TRAFFIC CONTROL PLANS FOR:  
**CAMINO DEL SUR, PHASE 11**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 14 OF 14 SHEETS		WATER WBS: <b>BIO200</b> SEWER WBS: _____
APPROVED BY: <i>John Stohr</i> FOR CITY ENGINEER	DATE: <b>9/28/2012</b>	DESIGNED BY: <b>JOHN STOHR</b> ASSOCIATE ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	ATKINS	
		DATE
		FILMED
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
		PROJECT ENGINEER: <b>290-1719</b> CCS27 COORDINATE: <b>1930-6284</b> CCS83 COORDINATE: <b>36608-T14-D</b>



**ATKINS**  
 3570 CARMEL MOUNTAIN ROAD  
 SUITE 300  
 SAN DIEGO CA, 92130  
 (858) 874-1810

