

Attachment A

**First Amendment to Agreement to Improve
Major Subdivision**

**AMENDMENT TO THE JOINT AGREEMENT TO IMPROVE MAJOR SUBDIVISION
(COUNTY OF SAN DIEGO TRACT NO. 5505-1, FINAL MAP 16562)
(PDS2021-LDPIIP-60114 OFFSITE)**

This Amendment to the Joint Agreement to Improve Major Subdivision ("Amendment"), is entered into this _____ day of _____, 20____, among the County of San Diego, California ("County"), the San Diego County Sanitation District, an independent sewer district formed and operating under Health & Safety Code section 4700, et seq. ("District") and CH REALTY X-ELC I OTAY MESA BUSINESS PARK L.P., A DELAWARE LIMITED PARTNERSHIP ("Owner"), with respect to the following:

RECITALS

A. On April 4, 2023 (CR# 43), the Director of Planning and Development Services ("Director") approved the Final Map for Tract No. 5505-1 (Final Map No. 16562) ("Final Map"), consisting of nine (9) commercial/industrial lots, one (1) public street lot, and one (1) sewer pump station lot on a total of 121.19 acres. At the time the Final Map No. 16562 was approved, County, District, and Owner entered into an agreement entitled "Joint Agreement to Improve Major Subdivision County of San Diego Tract No. 5505-1" ("Improvement Agreement") to guarantee the construction of private and public improvements as a condition of approval of the subdivision.

B. The Improvement Agreement requires the Owner to perform certain acts, and at his or her own cost and expense, to furnish all labor, equipment and material, and within two (2) years from the date of approval of Agreement, to perform and complete in a good, workmanlike manner, according to the plans and specifications attached thereto and made a part of the Improvement Agreement, the subdivision improvements specified therein ("Subdivision Improvements").

C. On March 24, 2025, the Director extended the time for performance under the Improvement Agreement to April 4, 2027.

D. The Improvement Agreement requires the Owner to complete certain offsite improvements ("Offsite Improvements"), as shown in Exhibit A, upon the property adjacent to Siempre Viva Road (the "Property"), as further described in Exhibit B, which Property is currently owned by the State of California Department of Transportation ("CalTrans"). The Offsite Improvements are included in the Subdivision Improvements.

E. The Owner has made good faith efforts to obtain sufficient title or interest in the Property to complete the Offsite Improvements but has been unable to obtain such title or interest from CalTrans.

F. CalTrans is willing to enter into negotiations to sell the Property directly to the County. The County is willing to enter into good faith negotiations with Caltrans to purchase the Property in order to allow the Owner to complete the Offsite Improvements in accordance with the terms of the Improvement Agreement, as amended herein.

G. The parties to this Amendment (the "Parties") desire to amend the Improvement Agreement to allow the Parties to facilitate the acquisition of the Property and the completion of the Offsite Improvements in accordance with the terms of the Improvement Agreement, as amended herein.

AGREEMENT

1. The above recitals are hereby incorporated into this Amendment by reference.
2. Paragraph SIXTEENTH is hereby added to the Improvement Agreement:

SIXTEENTH: OFFSITE IMPROVEMENTS: The County shall make good faith efforts to acquire sufficient title or interest in the Property to allow the Offsite Improvements to be made in accordance with the terms of the Improvement Agreement, as amended herein; provided that the Owner shall first enter into the Agreement to Pay Acquisition Costs, in substantially the same form as attached Exhibit C (the "Reimbursement Agreement") and the County of San Diego License for Use of County Facilities and Property, in substantially the same form as Exhibit D. (the "License Agreement").

3. Paragraph SEVENTEENTH is hereby added to the Improvement Agreement:

SEVENTEENTH: PREVAILING WAGE Work to be performed pursuant to the Improvement Agreement may be a "public work" under Labor Code section 1720, et seq. and may be subject to compliance monitoring and enforcement by the California Department of Industrial Relations. It is the sole responsibility of the Owner to ensure that all workers who perform work pursuant to this Agreement are paid in accordance with applicable law. Owner waives and releases any rights it may have under Labor Code section 1726 and 1781 to seek recovery of costs from the County. Further, the County shall not be liable for, and the Owner shall defend and indemnify the County and the employees and agents of County (collectively "County Parties"), against any and all claims, demands, liability, judgments, awards, fines, mechanics' liens or other liens, labor disputes, losses, damages, expenses, charges or costs of any kind or character, including attorneys' fees and court costs (hereinafter collectively referred to as "Claims") arising from the Owner's failure to comply with Labor Code requirements, including without limitation failure to pay prevailing wage when due. This Amendment shall be governed by and construed according to the laws of the State of California without regard to choice of law principles. Venue for any litigation shall be brought only in the state courts of California or in the federal courts located in San Diego County, California. Owner consents to personal jurisdiction in such courts and hereby waives any defense of lack of personal jurisdiction.

4. Paragraph EIGHTEENTH is hereby added to the Improvement Agreement:

EIGHTEENTH: ACQUISITION PERIOD: If the County has not acquired the Property and provided the Owner with written permission to enter upon the Property to construct the Offsite Improvements by April 4, 2027 (the "Acquisition Period"), the Owner shall not be required to construct the Offsite Improvements, provided that:

- a. The Owner shall provide the County with substitute security in the form of cash, meeting the requirements of San Diego County Code of Regulatory Ordinances section

81.408(a)(2), updated to reflect current cost estimates as of the date such substitute security is provided;

b. The County shall be permitted to use the security to finance the construction of the Offsite Improvements;

c. The Owner shall pay the County any funds due pursuant to the Reimbursement Agreement; and

d. The County shall be permitted to use all funds provided pursuant to the Reimbursement Agreement in accordance with the terms of the Reimbursement Agreement.

5. Paragraph NINETEENTH is hereby added to the Improvement Agreement:

ACQUISITION PERIOD EXTENSION: Notwithstanding anything in Paragraph EIGHTEENTH, ACQUISITION PERIOD, to the contrary, if, at the expiration of the Acquisition Period, the County can demonstrate that it is reasonably likely to acquire the Property within the next six months, the Acquisition Period shall be extended by six months ("Extended Acquisition Period"). If the County fails to acquire the Property by the expiration of the Extended Acquisition Period, the Owner shall not be required to construct the Offsite Improvements, provided all of the conditions of Paragraph EIGHTEENTH are met.

6. Paragraph TWENTIETH is hereby added to the Improvement Agreement:

RETURN OF FUNDS; EXONERATION OF SECURITY; TERMINATIONS OF AGREEMENTS: At the earlier of: (a) the date that is five (5) years after the expiration of the Acquisition Period, or if extended, the Extended Acquisition Period; or (b) the County's notice to the Owner that negotiations to acquire the Property have irrevocably ceased: (i) the Owner shall automatically be relieved of any and all obligation to construct the Offsite Improvements; (ii) the County shall return to the Owner all unused funds in County Trust Account No. 2208766-D-09233; (iii) the County shall refund to the Owner all unused security posted by the Owner pursuant to the Improvement Agreement, this Amendment, the Reimbursement Agreement, and the License Agreement; and (iv) the Improvement Agreement, this Amendment, the Reimbursement Agreement, and the License Agreement shall automatically be terminated.

7. Notwithstanding any provisions in this Amendment to the contrary, no release, termination or substitution of Parties authorized herein shall relieve a party of liability for any loss, claim or damage sustained by another party as a result of any breach by such party of the terms and conditions of the Improvement Agreement.

8. This Amendment may be executed in counterparts, each of which shall be fully effective as an original, and all of which together shall constitute one and the same instrument.

9. Except as modified herein, all other terms and conditions of the Improvement Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed as of the date first above written.

[Remainder of page intentionally left blank; signatures continue on following page.]

COUNTY OF SAN DIEGO

APPROVED AS TO FORM AND LEGALITY
COUNTY COUNSEL

By: _____
Clerk of the Board of Supervisors

By: _____
Senior Deputy

SAN DIEGO COUNTY SANITATION DISTRICT

By: _____
Clerk, Board of Directors

CERTIFICATE OF ACKNOWLEDGEMENT OF NOTARY PUBLIC

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF _____)
COUNTY OF _____)

ON _____, 20__ BEFORE ME, _____,

NOTARY PUBLIC, PERSONALLY APPEARED _____,
WHO PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE TO BE THE PERSON(S) WHOSE NAME(S) IS/ARE SUBSCRIBED TO THE WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE/SHE/THEY EXECUTED THE SAME IN HIS/HER/THEIR AUTHORIZED CAPACITY(IES), AND THAT BY HIS/HER/THEIR SIGNATURE(S) ON THE INSTRUMENT THE PERSON(S), OR THE ENTITY UPON BEHALF OF WHICH THE PERSON(S) ACTED, EXECUTED THIS 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 _____

PLEASE PRINT NAME:

MY PRINCIPAL PLACE OF BUSINESS IS IN _____ COUNTY.

MY COMMISSION NUMBER IS _____

MY COMMISSION EXPIRES _____, 20__

OWNER

CH REALTY X-ELC I OTAY MESA BUSINESS PARK L.P., A DELAWARE LIMITED PARTNERSHIP, as Owner

By: ELC OTAY BUSINESS PARK GP, LLC., A DELAWARE LIMITED LIABILITY COMPANY, ITS GENERAL PARTNER

By: [Handwritten Signature]

Brig Black, Managing Member

CERTIFICATE OF ACKNOWLEDGEMENT OF NOTARY PUBLIC

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF California)

COUNTY OF San Diego)

ON March 27, 2025 BEFORE ME, Michelle Baker

A NOTARY PUBLIC, PERSONALLY APPEARED Brig Black, 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 THIS 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 Michelle Baker

PLEASE PRINT NAME: Michelle Baker

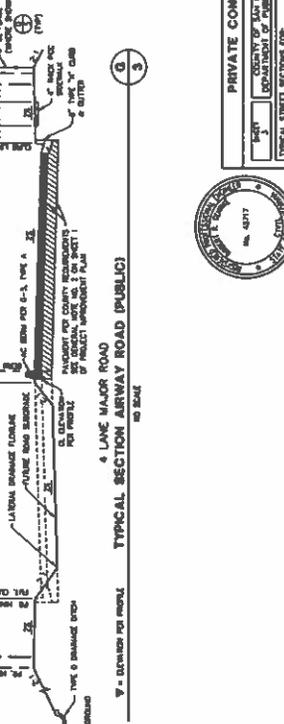
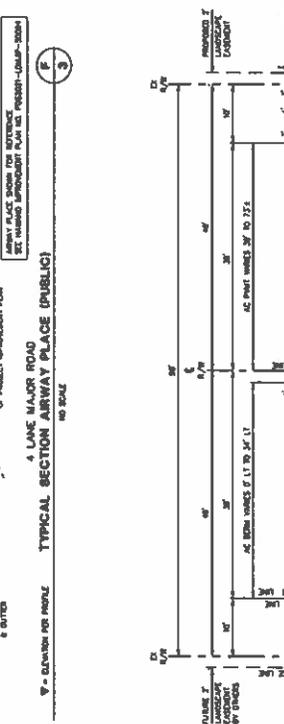
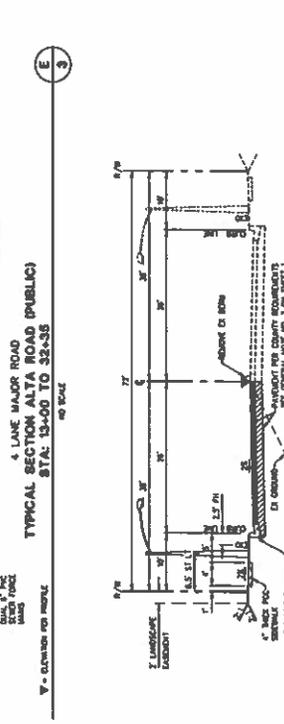
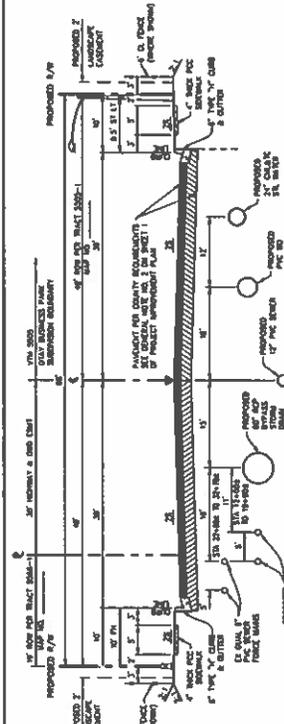
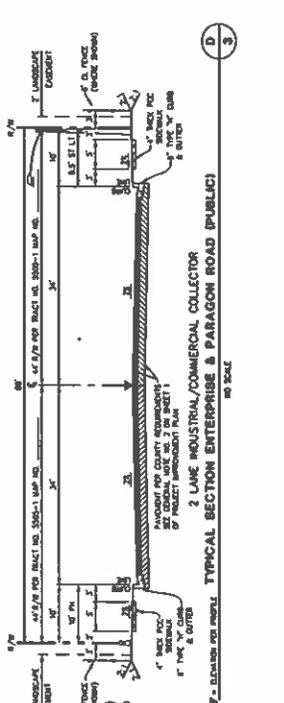
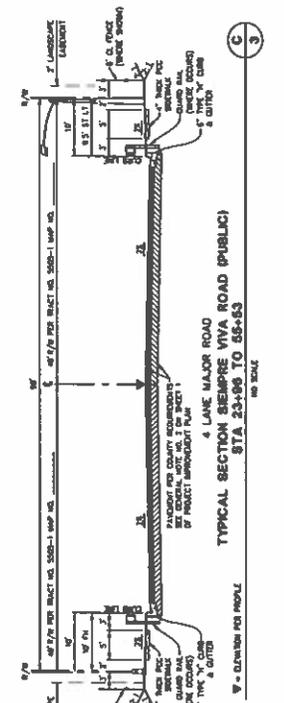
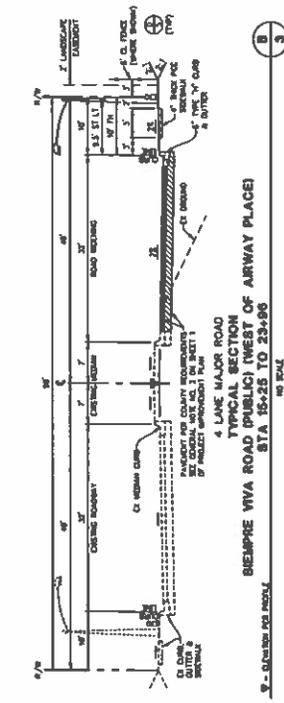
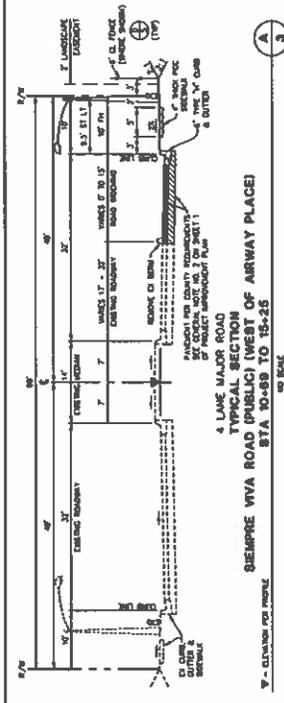


MY PRINCIPAL PLACE OF BUSINESS IS IN County of San Diego

MY COMMISSION EXPIRES March 10, 2028

MY COMMISSION NO. IS 2481557

Exhibit A
Improvement Plans



<p>STEVENS CRETO ENGINEERS 9465 Cholla Ave., Ste 200 San Diego, CA 92123 619-594-8860 stevenscreto.com</p>	<p>RECORD PLAN</p> <p>DATE: _____</p> <p>BY: _____</p>	<p>O.W.D. "AS-BUILT"</p> <p>PROJECT NO. _____</p> <p>DATE: _____</p>	<p>OTAY WATER DISTRICT</p> <p>PROJECT NO. _____</p> <p>DATE: _____</p>	<p>OTAY WATER DISTRICT REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DESCRIPTION	DATE				<p>COUNTY APPROVED CHANGES</p> <table border="1"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DESCRIPTION	DATE				<p>BENCH MARK</p> <p>DESCRIPTION: _____</p> <p>DATE: _____</p>
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<p>PRIVATE CONTRACT</p> <p>CLIENT: COUNTY OF SAN DIEGO</p> <p>PROJECT: ALTA ROAD & SEMPERE VIVA ROAD</p> <p>DATE: _____</p>	<p>STAMP: COUNTY OF SAN DIEGO</p>	<p>STAMP: COUNTY OF SAN DIEGO</p>	<p>STAMP: COUNTY OF SAN DIEGO</p>	<p>STAMP: COUNTY OF SAN DIEGO</p>	<p>STAMP: COUNTY OF SAN DIEGO</p>	<p>STAMP: COUNTY OF SAN DIEGO</p>												

WATER NOTES (OTAY WATER DISTRICT - OWD)

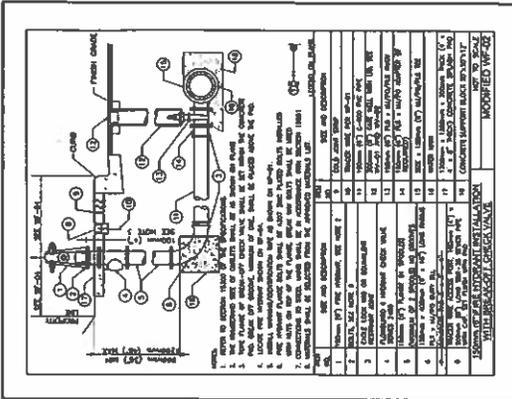
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JOINT RESTRAINT SYSTEMS NOTES

1. A SAFETY FACTOR OF 1.5 SHALL BE REQUIRED FOR THE DESIGN OF ALL RESTRAINT SYSTEMS. ALL PRODUCTS USED SHALL COMPLY WITH THE LATEST MANUFACTURER'S RECOMMENDATIONS FOR ALL DIMENSIONED RESTRAINT SYSTEMS.
2. A MINIMUM FACTOR OF SAFETY OF 2.0 SHALL BE REQUIRED FOR ALL DIMENSIONED RESTRAINT SYSTEMS.
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MODIFIED WF-02 DETAIL



PRIVATE CONTRACT

COUNTY OF SAN DIEGO
 DEPARTMENT OF PUBLIC WORKS

WATER NOTES & DETAILS FOR
 ALTA ROAD & BISHOPVILLE WVA IMPROVEMENT PROJECT
 COUNTY OF SAN DIEGO TRACTS 1800 & 1801
 CALIFORNIA COORDINATE NAD 83 13N-17W

PROJECT NO. W-0201-00114
 DATE: 08/14/2014

DESIGNED BY: [Signature]
 CHECKED BY: [Signature]

REVISION NO.	DATE	DESCRIPTION
1	08/14/2014	ISSUED FOR PERMITS
2	08/14/2014	ISSUED FOR PERMITS
3	08/14/2014	ISSUED FOR PERMITS
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19	08/14/2014	ISSUED FOR PERMITS
20	08/14/2014	ISSUED FOR PERMITS

OTAY WATER DISTRICT REVISIONS	COUNTY APPROVED CHANGES
NO REVISIONS	NO CHANGES

OTAY WATER DISTRICT

PROJECT NO. W-0201-00114
 DATE: 08/14/2014
 LOCATION: ALTA ROAD & BISHOPVILLE WVA IMPROVEMENT PROJECT

DESIGNED BY: [Signature]
 CHECKED BY: [Signature]

O.W.D. "AS-BUILT"

DATE: 08/14/2014
 LOCATION: ALTA ROAD & BISHOPVILLE WVA IMPROVEMENT PROJECT

DESIGNED BY: [Signature]
 CHECKED BY: [Signature]

RECORD PLAN

DATE: 08/14/2014

DESIGNED BY: [Signature]
 CHECKED BY: [Signature]

STEVENS
 CRENSHAW
 ENGINEERS

1665 Chesapeake Dr., Ste 200
 San Diego, CA 92108
 Tel: 619-594-1665 | www.stevenscrensaw.com

STANDARD ABBREVIATIONS

Table of standard abbreviations including terms like 'ACCEPTED', 'AS SHOWN', 'AS NOTED', 'AS NOTED TO BE CORRECTED', etc.

PRIVATE CONTRACT form with fields for project name, location, and dates.

ROUND GIB FOR MOUNTING UNDER MAMMOET

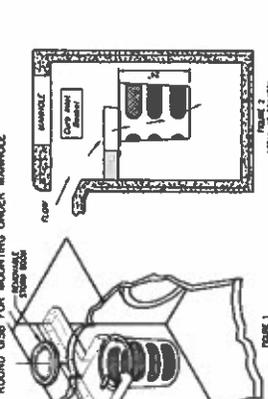
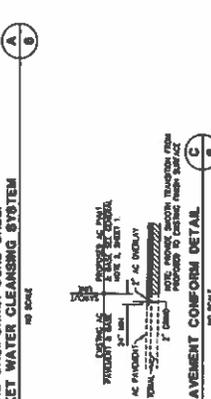


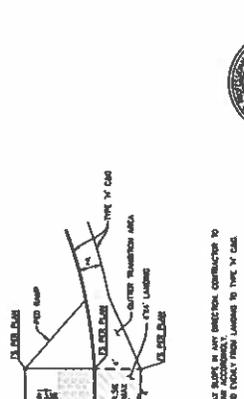
Table with 3 columns: ITEM NO., DESCRIPTION, and QUANTITY. Lists various materials and their quantities for the gib assembly.

NOTES: 1. NEW SYSTEM PROVIDES FOR DOUBLE OVERLAP OF MOUNTING... 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED...

BO CLEAN ENHANCEMENTS BY SUNTREE INDUSTRIES THE CALIFORNIA CURB SHELF BASKET WATER CLEANSING SYSTEM



PAVEMENT CONFORM DETAIL: Technical drawing showing the cross-section of a pavement curb detail with various layers and materials.



SPECIAL NOTES

- 1. THE FOLLOWING NOTES ARE PROVIDED TO THE CONTRACTOR BY THE COUNTY ENGINEER... 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

GRADING NOTES

- 1. ALL GRADING SHALL BE ACCORDING TO THE PROPOSED GRADING PLAN... 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

POLYPROPYLENE STORM DRAIN PIPE (PPSD) NOTES

- 1. THE POLYPROPYLENE STORM DRAIN PIPE SHALL BE ACCORDING TO THE PROPOSED GRADING PLAN... 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

AIR QUALITY NOTES

- 1. ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH THE AIR QUALITY CONTROL MEASURES... 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

CONTRACTOR'S NOTES

- 1. THE CONTRACTOR HAS REVIEWED THE DRAWINGS AND SPECIFICATIONS... 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

PPSD 3RD PARTY INSPECTION NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE 3RD PARTY INSPECTOR... 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

STREET LIGHT NOTES

- 1. ALL STREET LIGHTS SHALL BE ACCORDING TO THE PROPOSED GRADING PLAN... 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

RETAINABLE WALLING SURFACE AT CURB RAMPS

- 1. THE RETAINABLE WALLING SURFACE SHALL BE ACCORDING TO THE PROPOSED GRADING PLAN... 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS...

COUNTY APPROVED CHANGES

Table for recording county approved changes, with columns for description, date, and initials.

RECORD PLAN: Information regarding the record plan, including the name of the engineer and the date.

BENCH MARK: Information regarding the bench mark, including the location and elevation.

CONTRACTOR'S NOTES: Additional notes from the contractor regarding the project.

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PROVIDE PRIOR TO ANY GRADING APPROVAL AND ISSUANCE OF ANY BUILDING PERMIT

PALEONTOLOGICAL MONITORING: MONITORING PERIODS SHALL BE 90 DAYS... THE APPLICANT SHALL SUBMIT THE LETTER REPORT TO THE PERMITS AND REVIEW DIVISION... THE PERMITS AND REVIEW DIVISION SHALL REVIEW THE LETTER REPORT...

- 1. ALL PALEONTOLOGICAL MONITORING ACTIVITIES MUST BE COMPLETED... 2. THE APPLICANT SHALL SUBMIT THE LETTER REPORT TO THE PERMITS AND REVIEW DIVISION... 3. THE PERMITS AND REVIEW DIVISION SHALL REVIEW THE LETTER REPORT...

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PRIVATE CONTRACT form with fields for COUNTY OF SAN DIEGO, PROJECT NO., CONTRACT NO., and SIGNATURES.

CULTURAL RESOURCES

TO THE COUNTY ATTORNEY, MONITORING PERIODS SHALL BE 90 DAYS... THE APPLICANT SHALL SUBMIT THE LETTER REPORT TO THE PERMITS AND REVIEW DIVISION... THE PERMITS AND REVIEW DIVISION SHALL REVIEW THE LETTER REPORT...

- 1. ALL CULTURAL RESOURCES MONITORING ACTIVITIES MUST BE COMPLETED... 2. THE APPLICANT SHALL SUBMIT THE LETTER REPORT TO THE PERMITS AND REVIEW DIVISION... 3. THE PERMITS AND REVIEW DIVISION SHALL REVIEW THE LETTER REPORT...

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BENCH MARK table with columns for RECORD PLAN, COUNTY APPROVED CHANGES, and BENCH MARK.

DOCUMENTATION: THE RESULTS OF THE PRE-CONSTRUCTION SURVEY MUST BE IMMEDIATELY PROVIDED TO THE COUNTY ATTORNEY...

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STEVENS CREST logo and contact information for the engineering firm.

GRADING CONSTRUCTION: THE FOLLOWING ACTIONS SHALL OCCUR THROUGHOUT THE DURATION OF THE GRADING CONSTRUCTION.

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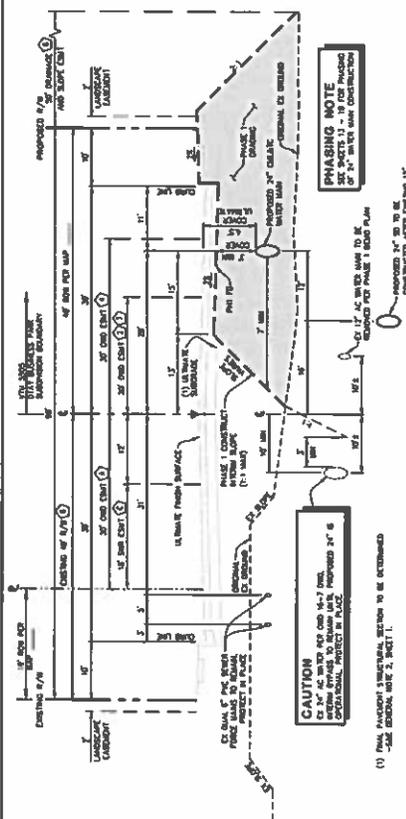
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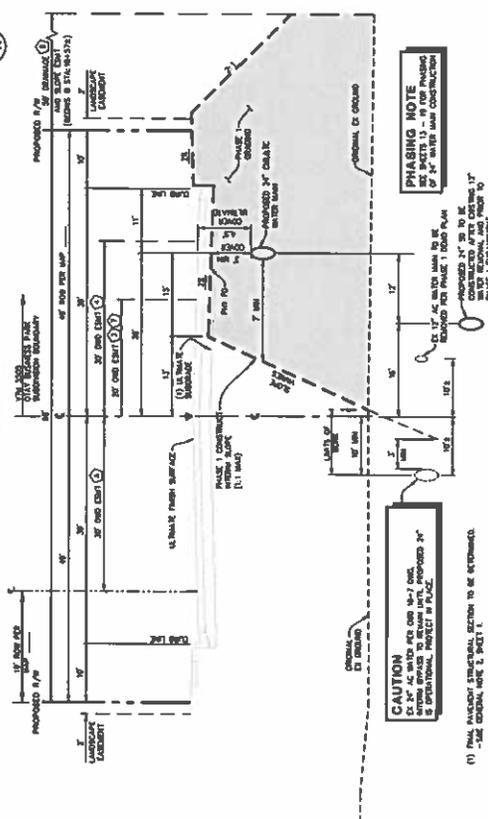
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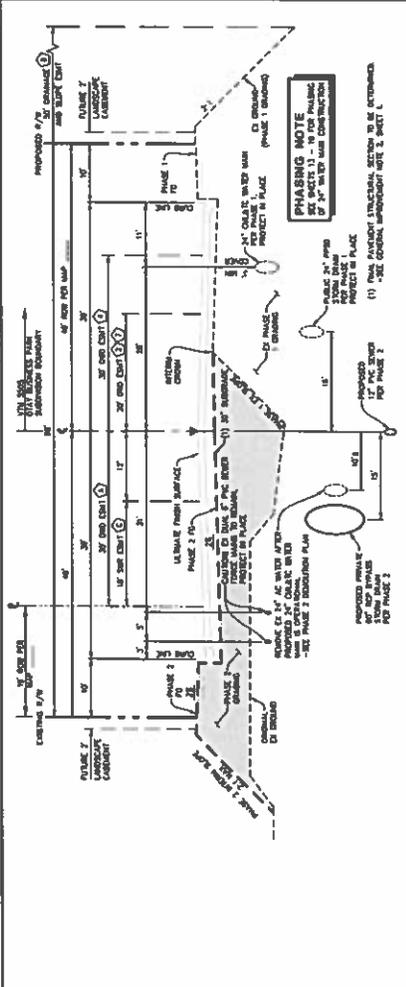
Table with columns for RECORD PLAN, COUNTY APPROVED CHANGES, and BENCH MARK.



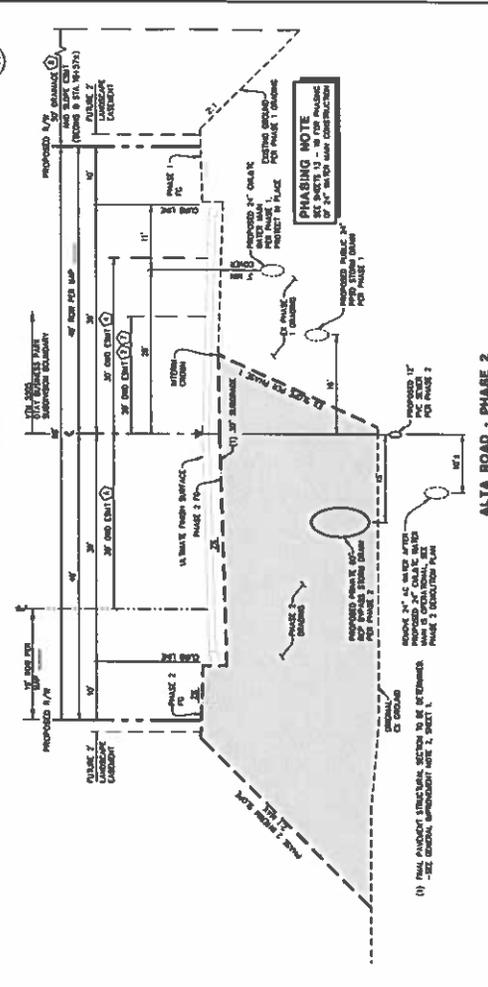
ALTA ROAD - PHASE 1
 PROPOSED 24" CONCRETE WATER MAIN CONSTRUCTION
 EAST HALF ROAD GRADING
 STA. 20+00.00 TO 30+00.00



ALTA ROAD - PHASE 2
 EX 24" GALV. WATER MAIN REMOVAL
 24" CONCRETE WATER MAIN CONSTRUCTION
 WEST HALF ROAD GRADING
 STA. 19+00.00 TO 20+00.00



ALTA ROAD - PHASE 2
 EX 24" AC WATER MAIN REMOVAL
 SEWER & STORM DRAIN CONSTRUCTION
 WEST HALF ROAD GRADING
 STA. 20+00.00 TO 30+00.00



ALTA ROAD - PHASE 2
 EX 24" AC WATER MAIN REMOVAL
 PROPOSED SEWER & STORM DRAIN CONSTRUCTION
 WEST HALF - ROAD GRADING
 STA. 19+00.00 TO 20+00.00

PRIVATE CONTRACT

COUNTY OF SAN DIEGO
 DEPARTMENT OF PUBLIC WORKS

PROJECT NO. 15-0000-0011
 COUNTY OF SAN DIEGO TRACTS 8005 & 8006
 CALIFORNIA COMMUNITY DEVELOPMENT ACT

ISSUED DATE: 08/21/15
 PROJECT: 15-0000-0011

BENCH MARK

DESCRIPTION: MAIN LINE STREET CORNER
 LOCATION: 100' S. 100' E. OF CORNER
 ELEVATION: 100.00

NO.	DATE	DESCRIPTION

OTAY WATER DISTRICT

PROJECT NO. 15-0000-0011
 SHEET NO. 15-0000-0011-P-1

O.W.D. "AS-BUILT"

DATE: 08/21/15
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 PROJECT NO. 15-0000-0011

RECORD PLAN

DATE: 08/21/15
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 PROJECT NO. 15-0000-0011

STEVENS
 CRESCO
 ENGINEERS

3648 Chesapeake Dr. Ste 200
 San Diego, CA 92123
 619-594-9000

SHRINKDOWN NOTE
 THIS DRAWING IS A SHRINKDOWN OF THE ORIGINAL DRAWING. THE ORIGINAL DRAWING IS THE SOURCE OF THE INFORMATION FOR THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES AND OBSTRUCTIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES.

EXISTING EASEMENT NOTES
 1. SEE SHEET 2 FOR EXISTING EASEMENT NOTES.

GENERAL DEMOLITION

1. CONTRACTOR SHALL REMOVE ALL EXISTING STRUCTURES AND UTILITIES AS SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AGENCIES.
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PHASE 1 DEMOLITION SEQUENCING

1. DEMOLITION OF EXISTING STRUCTURES AND UTILITIES SHALL BE COMPLETED BY THE END OF THE PROJECT.
2. DEMOLITION OF EXISTING STRUCTURES AND UTILITIES SHALL BE COMPLETED BY THE END OF THE PROJECT.

DEMOLITION NOTES

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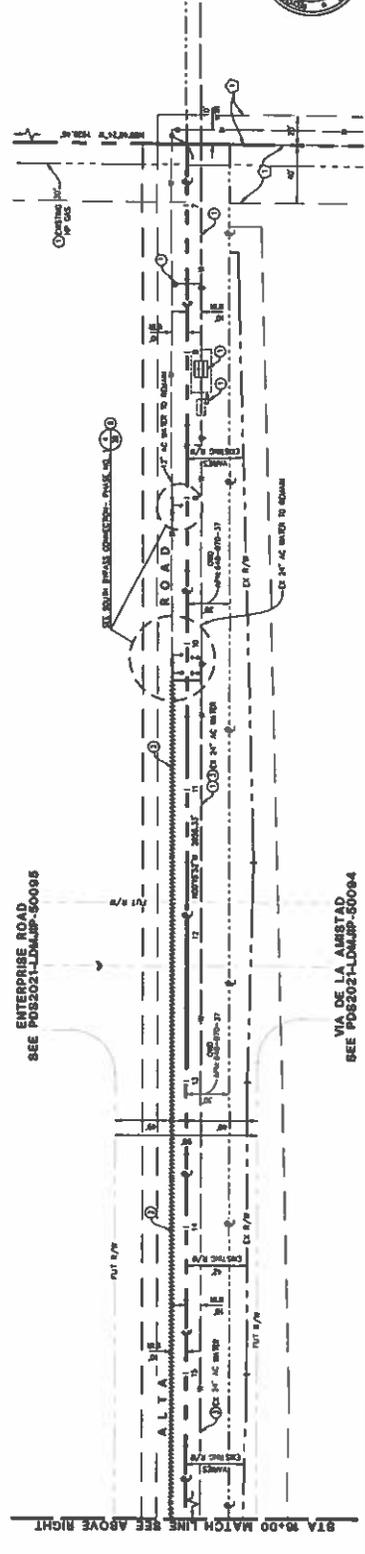
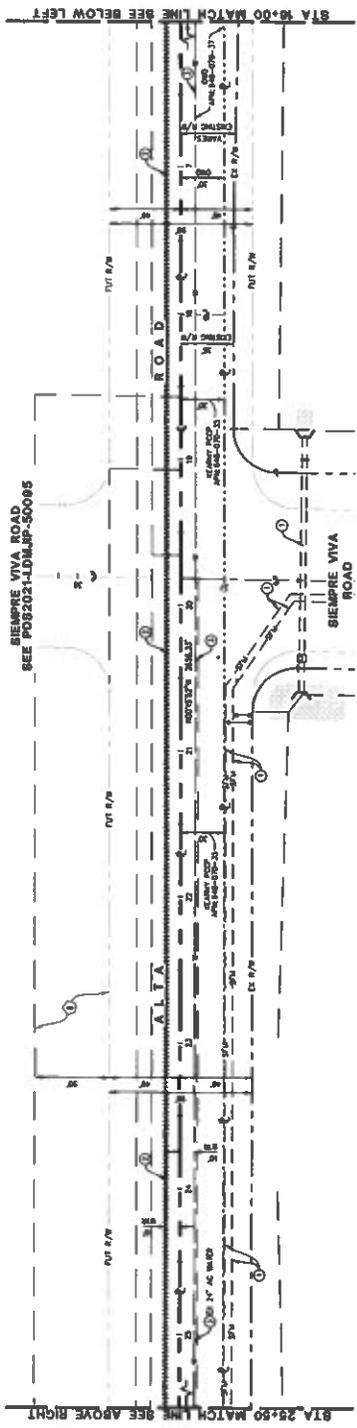
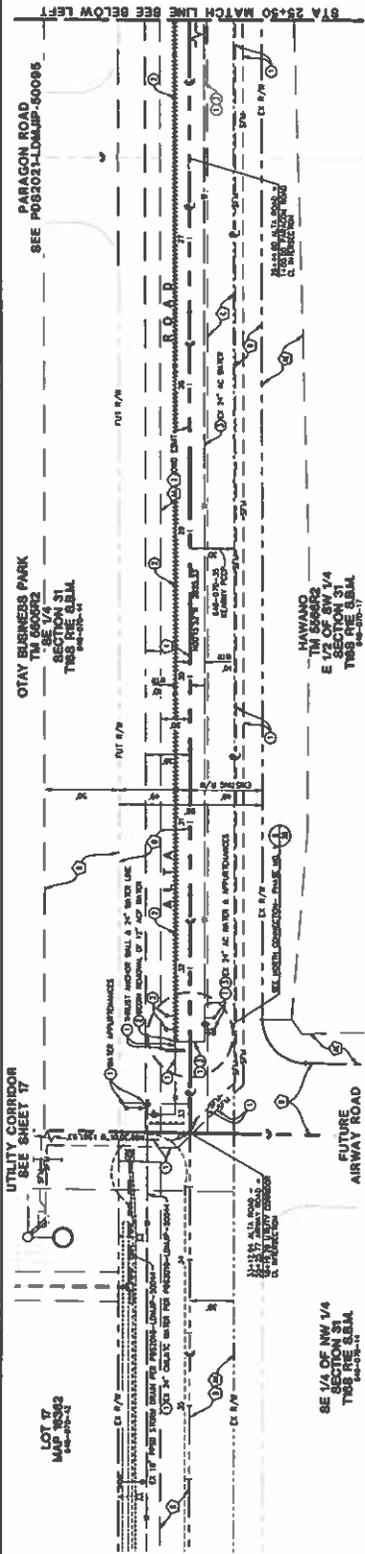
ATTACHMENT A



PRIVATE CONTRACT

PROJECT NO.	DATE
CLIENT	DATE
DESIGNER	DATE
CHECKED	DATE
APPROVED	DATE
PROJECT NO.	DATE
CLIENT	DATE
DESIGNER	DATE
CHECKED	DATE
APPROVED	DATE

OND PROJECT: 01132-090574
 OND FORM: 06/11-22-000



 STEVENS CRESTO ENGINEERS 3665 Chesapeake Dr., Ste 200 San Diego, CA 92116 619-594-1400	PROJECT NO. _____ SHEET NO. _____ DATE _____ PROJECT & OFFICE _____ DRAWING NO. _____ REVISION NO. _____	PROJECT NO. _____ SHEET NO. _____ DATE _____ PROJECT & OFFICE _____ DRAWING NO. _____ REVISION NO. _____	PROJECT NO. _____ SHEET NO. _____ DATE _____ PROJECT & OFFICE _____ DRAWING NO. _____ REVISION NO. _____	PROJECT NO. _____ SHEET NO. _____ DATE _____ PROJECT & OFFICE _____ DRAWING NO. _____ REVISION NO. _____	PROJECT NO. _____ SHEET NO. _____ DATE _____ PROJECT & OFFICE _____ DRAWING NO. _____ REVISION NO. _____	PROJECT NO. _____ SHEET NO. _____ DATE _____ PROJECT & OFFICE _____ DRAWING NO. _____ REVISION NO. _____	PROJECT NO. _____ SHEET NO. _____ DATE _____ PROJECT & OFFICE _____ DRAWING NO. _____ REVISION NO. _____	PROJECT NO. _____ SHEET NO. _____ DATE _____ PROJECT & OFFICE _____ DRAWING NO. _____ REVISION NO. _____	PROJECT NO. _____ SHEET NO. _____ DATE _____ PROJECT & OFFICE _____ DRAWING NO. _____ REVISION NO. _____	PROJECT NO. _____ SHEET NO. _____ DATE _____ PROJECT & OFFICE _____ DRAWING NO. _____ REVISION NO. _____
	RECORD PLAN	O.W.D. "AS-BUILT"	OTAY WATER DISTRICT	OTAY WATER DISTRICT REVISIONS	COUNTY APPROVED CHANGES	BENCH MARK	OTAY BUSINESS PARK SECTION 31 TRACT 8281A MAP 15393			

NOT FOR CONSTRUCTION

CENTERLINE DATA

STATION	550	540	530	520	510
CHORD BEARING	S 89° 58' 00" W				
CHORD DISTANCE	100.00	100.00	100.00	100.00	100.00
CHORD AREA	100.00	100.00	100.00	100.00	100.00
CHORD PERIMETER	100.00	100.00	100.00	100.00	100.00

EXISTING EASEMENT NOTES

- 1. CONSTRUCT PORTION OF 36" STORM DRAIN SEE SHEETS 25-31.
- 2. CONSTRUCT 18" AND 36" STORM DRAIN SYSTEM.
- 3. FUTURE PAVEMENT 1' GRADING.
- 4. CONSTRUCT 24" STORM WATER MAIN SEE SHEETS 25-31.
- 5. CONSTRUCT 24" STORM WATER MAIN SEE SHEETS 25-31.

CONSTRUCTION NOTES

- 1. PROJECT IN PLACE BEFORE ANY OTHER WORK IS PERFORMED.
- 2. EXISTING 18" AND 36" STORM DRAIN SYSTEMS TO BE REMOVED AND RECONSTRUCTED AS SHOWN ON THESE SHEETS.
- 3. CONSTRUCTION TO BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AS APPLICABLE.
- 4. CONSTRUCT 18" CHAIN WITH 18" DIA. SEE SHEETS 25-31.
- 5. CONSTRUCT 36" CHAIN WITH 36" DIA. SEE SHEETS 25-31.

OTAY WATER DISTRICT CONNECTION NOTES

- A. CONTRACTOR TO ADVISE ALL WORK AND PROCEED WITH 24" OR 36" STORM DRAIN SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AS APPLICABLE.
- B. EXISTING 18" AND 36" STORM DRAIN SYSTEMS TO BE REMOVED AND RECONSTRUCTED AS SHOWN ON THESE SHEETS.
- C. CHAINING PROTECTION AS SHOWN SHEETS 25-31.

SHUTDOWNS

- 1. SHUTDOWNS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AS APPLICABLE.
- 2. CONTRACTOR TO ADVISE ALL WORK AND PROCEED WITH 24" OR 36" STORM DRAIN SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AS APPLICABLE.
- 3. EXISTING 18" AND 36" STORM DRAIN SYSTEMS TO BE REMOVED AND RECONSTRUCTED AS SHOWN ON THESE SHEETS.
- 4. CONSTRUCTION TO BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AS APPLICABLE.
- 5. CONSTRUCT 18" CHAIN WITH 18" DIA. SEE SHEETS 25-31.
- 6. CONSTRUCT 36" CHAIN WITH 36" DIA. SEE SHEETS 25-31.

NOTE

1. SHUTDOWNS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AS APPLICABLE.

PROPOSED STORM DRAIN/SEWER NOTE:

1. PORTIONS OF PROPOSED STORM DRAIN AND SEWER MAINS TO BE INSTALLED AND RECONSTRUCTED AS SHOWN ON THESE SHEETS.

PROFILE: ALTA ROAD

1. PROFILE: ALTA ROAD. SCALE: 1" = 10' VERT.

CAUTION

1. CAUTION: 24" DIA. OF 36" STORM DRAIN. PROJECT IN PLACE. OTAY WATER DISTRICT SHALL VERIFY WITH DISTRICT OFFICE.

CAUTION

1. CAUTION: 36" DIA. OF 36" STORM DRAIN. PROJECT IN PLACE. OTAY WATER DISTRICT SHALL VERIFY WITH DISTRICT OFFICE.

CAUTION

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CAUTION

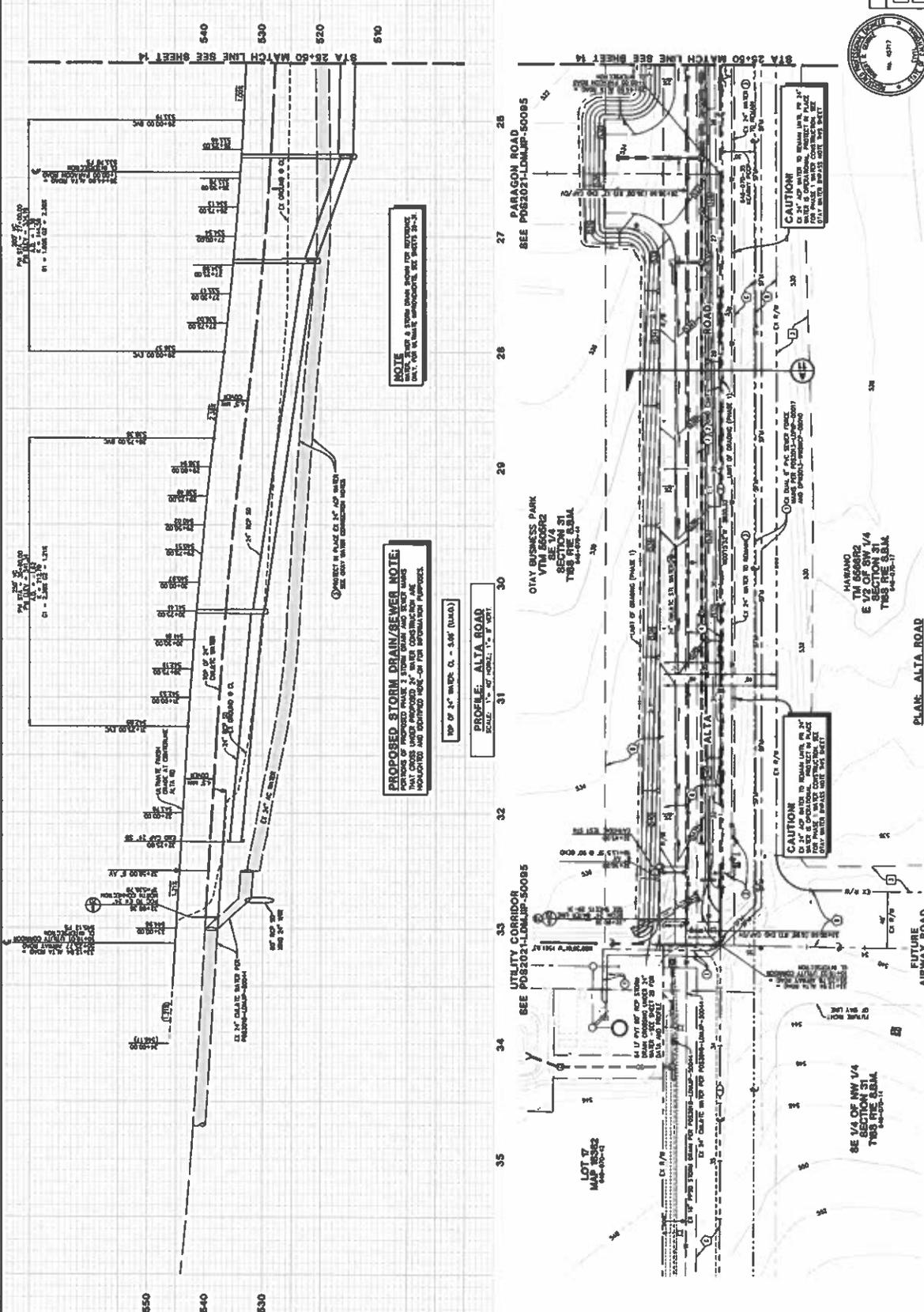
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RECORD PLAN	OTAY WATER DISTRICT	OTAY WATER DISTRICT REVISIONS	COUNTY APPROVED CHANGES	BENCH MARK
PROJECT NO. 0577	PROJECT NO. 0577	PROJECT NO. 0577	PROJECT NO. 0577	PROJECT NO. 0577
DATE 05/11/11	DATE 05/11/11	DATE 05/11/11	DATE 05/11/11	DATE 05/11/11
DESIGNER: [Signature]	DESIGNER: [Signature]	DESIGNER: [Signature]	DESIGNER: [Signature]	DESIGNER: [Signature]
CHECKED: [Signature]	CHECKED: [Signature]	CHECKED: [Signature]	CHECKED: [Signature]	CHECKED: [Signature]
DATE 05/11/11	DATE 05/11/11	DATE 05/11/11	DATE 05/11/11	DATE 05/11/11

ATTACHMENT A

PRIVATE CONTRACT

SCALE: 1" = 40'

COUNTY OF SAN DIEGO

PROJECT NO. 0577

DATE 05/11/11

DESIGNER: [Signature]

CHECKED: [Signature]

DATE 05/11/11

OTAY WATER DISTRICT PROJECT NO. 0577

DATE 05/11/11

DESIGNER: [Signature]

CHECKED: [Signature]

DATE 05/11/11

SHUTOFF/NOISE NOTE
 ALL SHUTOFFS SHALL BE MADE IN ACCORDANCE WITH THE PROVISIONS OF THE EXISTING PHASE BEING DEMOLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN AND FOR THE PROTECTION OF THE NEW CONNECTION.

EXISTING EASEMENT NOTES
 SEE SHEET 7 FOR EXISTING EASEMENT NOTES

GENERAL DEMOLITION
 CONTRACTOR SHALL REMOVE ALL UTILITIES FROM TO BE DEMOLISHED. CONTRACTOR SHALL MAINTAIN WATER SERVICE AT ALL TIMES HIGH WATER SERVICE SHALL BE MAINTAINED THROUGHOUT THE DEMOLITION PROCESS. CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE PAVEMENT TO ORIGINAL CONDITION.

PHASE 2 DEMOLITION SEQUENCING
 1. DEMOLITION SHALL BE COMPLETED BY THE END OF THE CONTRACT PERIOD.
 2. CONTRACTOR SHALL MAINTAIN WATER SERVICE AT ALL TIMES HIGH WATER SERVICE SHALL BE MAINTAINED THROUGHOUT THE DEMOLITION PROCESS.
 3. CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE PAVEMENT TO ORIGINAL CONDITION.
 4. CONTRACTOR SHALL MAINTAIN ALL UTILITIES TO REMAIN AND FOR THE PROTECTION OF THE NEW CONNECTION.

DEMOLITION NOTES
 1. CONTRACTOR SHALL MAINTAIN ALL UTILITIES TO REMAIN AND FOR THE PROTECTION OF THE NEW CONNECTION.
 2. CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE PAVEMENT TO ORIGINAL CONDITION.
 3. CONTRACTOR SHALL MAINTAIN WATER SERVICE AT ALL TIMES HIGH WATER SERVICE SHALL BE MAINTAINED THROUGHOUT THE DEMOLITION PROCESS.
 4. CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE PAVEMENT TO ORIGINAL CONDITION.

ATTACHMENT A

SCALE: 1"=40'

PRIVATE CONTRACT

COUNTY OF SAN DIEGO

PROJECT NO. 050021-L0MJP-50094

CONTRACT NO. 050021-L0MJP-50094

DATE: 05/11/17

PROJECT: ALTA ROAD & BREWSTER VYVA ROAD, COUNTY OF SAN DIEGO TRACTS ROAD & BREWSTER VYVA ROAD, CALIFORNIA COORDINATE MODEL 13N-17W

PREPARED BY: [Signature]

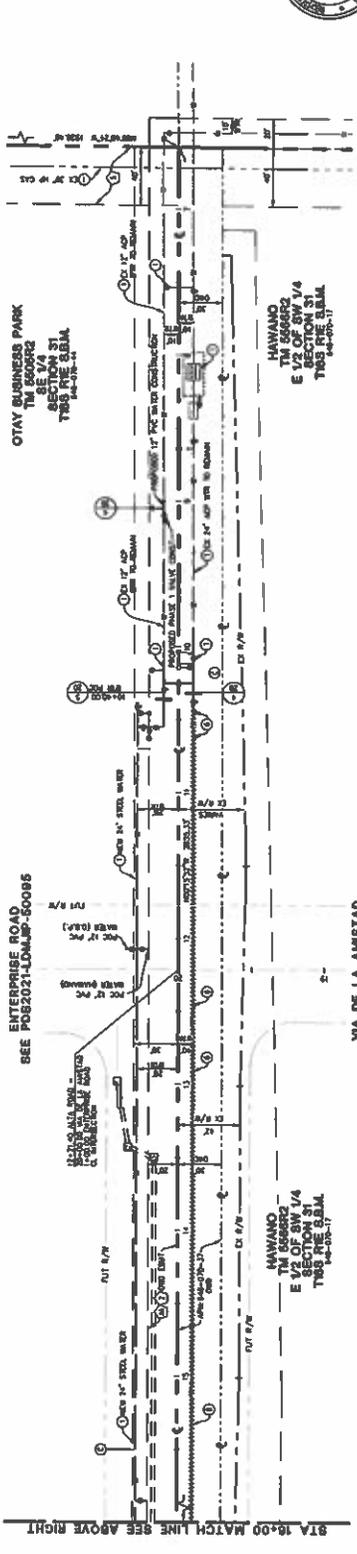
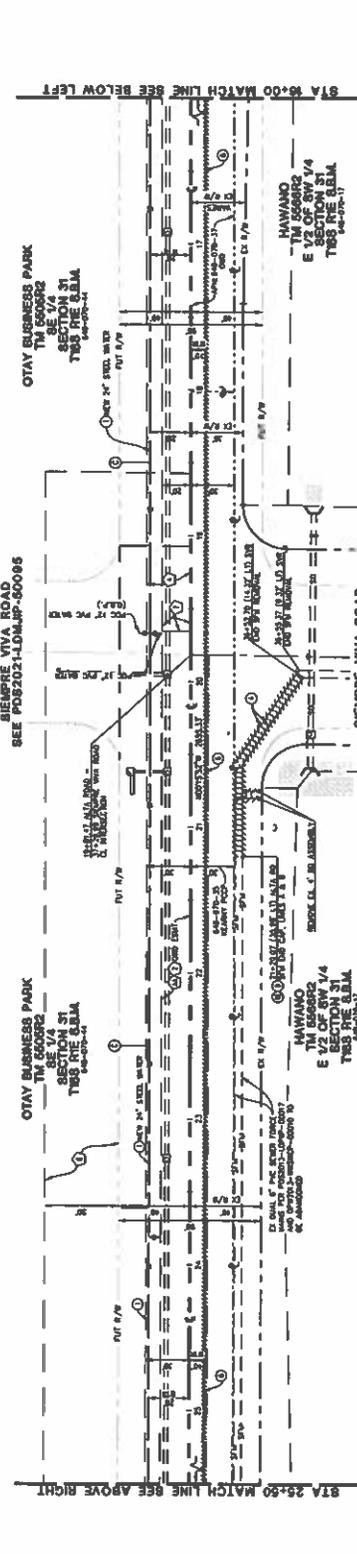
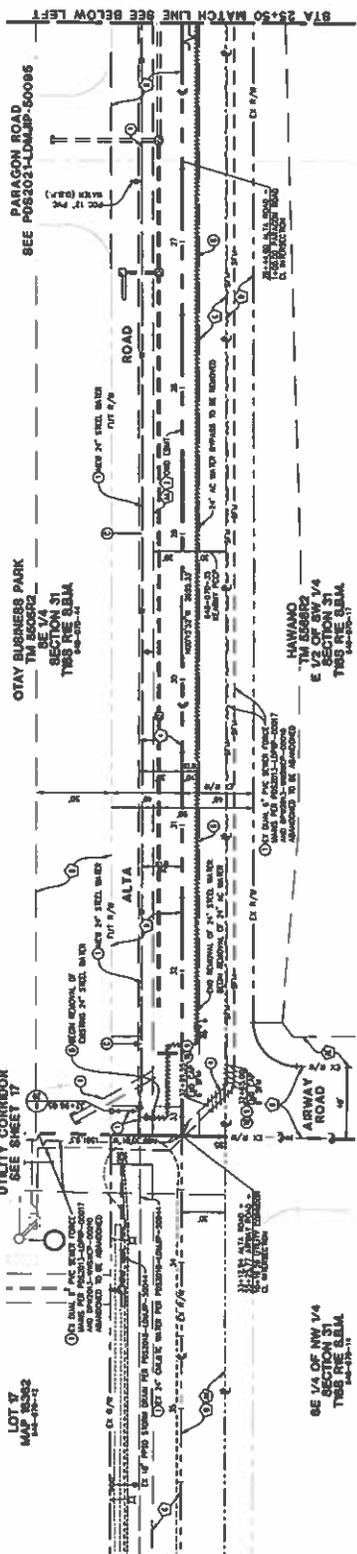
CHECKED BY: [Signature]

DATE: 05/11/17

PROJECT NO. 050021-L0MJP-50094

CONTRACT NO. 050021-L0MJP-50094

DATE: 05/11/17



RECORD PLAN	O.W.D. "AS-BUILT"	OTAY WATER DISTRICT	OTAY WATER DISTRICT REVISIONS	COUNTY APPROVED CHANGES	BENCH MARK
STEVENS CRESTO ENGINEERS 5465 Chippendale Dr., Ste 200 San Diego, CA 92123 619-444-4444 info@stevens-crest.com	PROJECT NO. 050021-L0MJP-50094 DRAWING NO. 050021-L0MJP-50094 DATE: 05/11/17	BENCH MARK DEPARTMENT: SAN DIEGO COUNTY ENGINEERING & PLANNING LOCATION: 1000 N. GARDEN STREET, SAN DIEGO, CA 92101 RECORD NUMBER: S.D.G.E. 1000, E.T. NO. 0500 ELEVATION: 161.89			

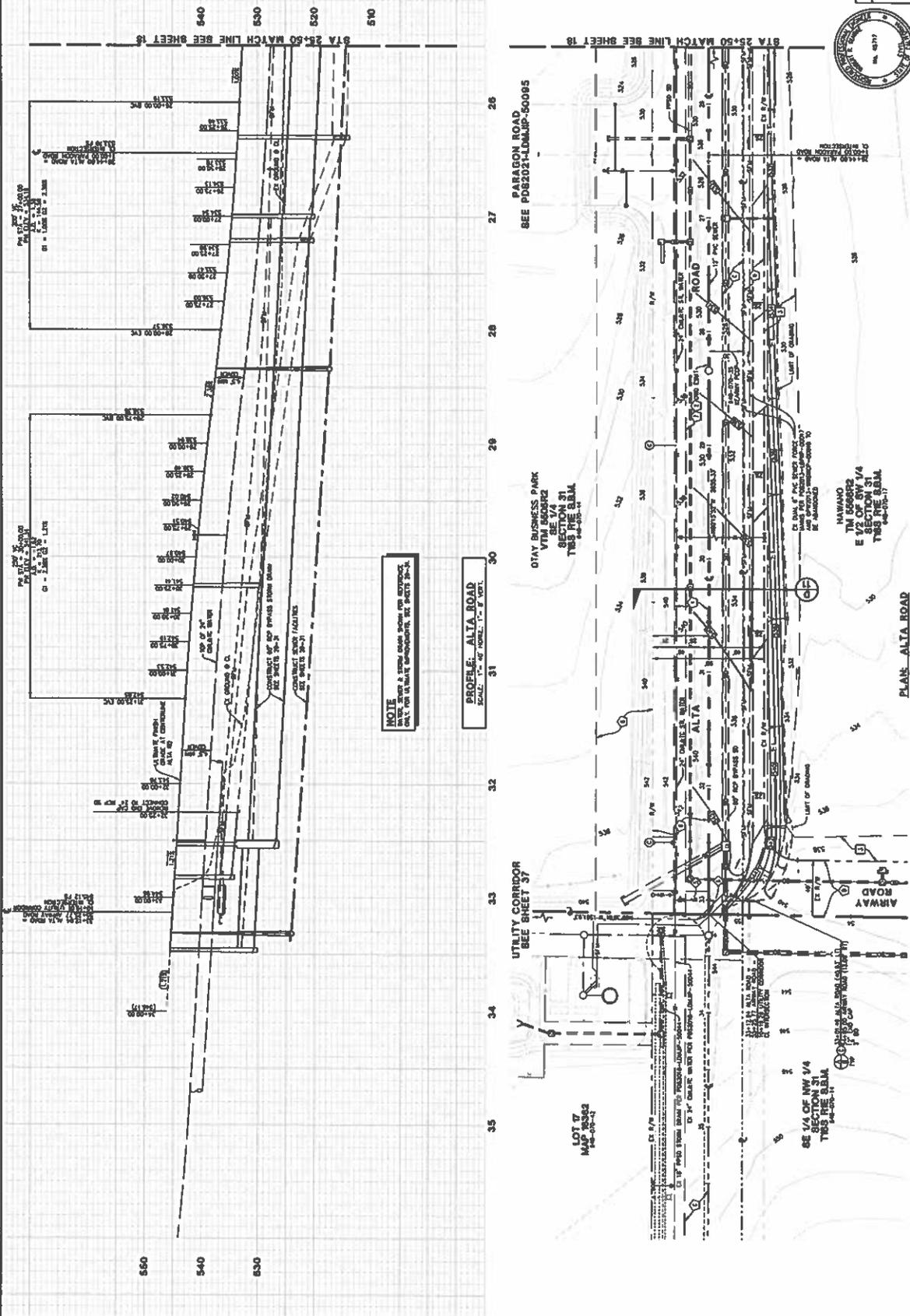
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NO. 3	100.00
NO. 4	100.00
NO. 5	100.00
NO. 6	100.00
NO. 7	100.00
NO. 8	100.00
NO. 9	100.00
NO. 10	100.00

PHASE 2 DRAINAGE REQUIREMENTS

- CONTRACTOR TO VERIFY EXISTING DRAINAGE AND REPORT TO THE ENGINEER.
- CONTRACTOR TO PROVIDE DRAINAGE FOR ALL IMPROVEMENTS.
- CONTRACTOR TO PROVIDE DRAINAGE FOR ALL IMPROVEMENTS.

EXISTING EASEMENT NOTES

- SEE SHEET 2 FOR EXISTING EASEMENT NOTES.



ATTACHMENT A

SCALE: 1" = 40'

PRIVATE CONTRACT

ALTA ROAD - PHASE 2 IMPROVEMENTS

CITY OF SAN DIEGO

COUNTY OF SAN DIEGO

PROJECT NO. 082021-LDMUP-50095

DATE: 08/11/21

BY: [Signature]

FOR: [Signature]

PROJECT: 082021-LDMUP-50095

DATE: 08/11/21

NO.	DATE	DESCRIPTION	BY	CHKD.
1	08/11/21	ISSUED FOR PERMIT	[Signature]	[Signature]
2	08/11/21	REVISED PER COMMENTS	[Signature]	[Signature]
3	08/11/21	REVISED PER COMMENTS	[Signature]	[Signature]
4	08/11/21	REVISED PER COMMENTS	[Signature]	[Signature]
5	08/11/21	REVISED PER COMMENTS	[Signature]	[Signature]
6	08/11/21	REVISED PER COMMENTS	[Signature]	[Signature]
7	08/11/21	REVISED PER COMMENTS	[Signature]	[Signature]
8	08/11/21	REVISED PER COMMENTS	[Signature]	[Signature]
9	08/11/21	REVISED PER COMMENTS	[Signature]	[Signature]
10	08/11/21	REVISED PER COMMENTS	[Signature]	[Signature]

CENTERLINE DATA

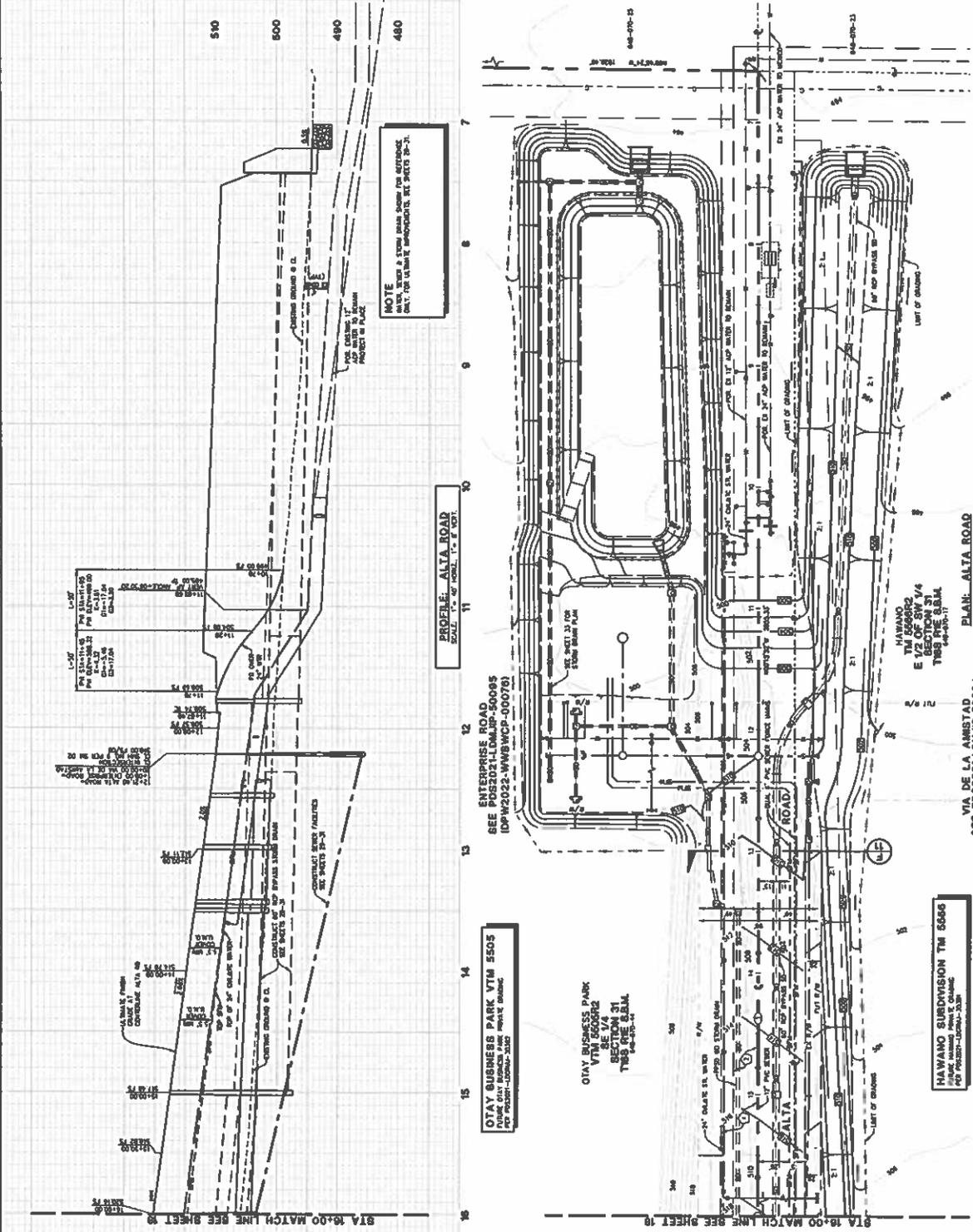
STATION	CHORD BEARING	CHORD LENGTH	CHORD BEARING
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11+00	113° 15' 00"	100.00	113° 15' 00"
12+00	113° 15' 00"	100.00	113° 15' 00"
13+00	113° 15' 00"	100.00	113° 15' 00"
14+00	113° 15' 00"	100.00	113° 15' 00"
15+00	113° 15' 00"	100.00	113° 15' 00"
16+00	113° 15' 00"	100.00	113° 15' 00"
17+00	113° 15' 00"	100.00	113° 15' 00"
18+00	113° 15' 00"	100.00	113° 15' 00"
19+00	113° 15' 00"	100.00	113° 15' 00"

EXISTING EASEMENT NOTES

1. THIS SHEET 7 FOR EXISTING EASEMENT NOTES

PHASE 2 GRADING REQUIREMENTS

1. CONTRACT FOR STORM DRAIN, SEE SHEETS 28-31.
2. CONTRACT FOR SIDEWALK, SEE SHEETS 32-34.
3. FUTURE PAVEMENT GRADING.



NOTE

THIS SHEET 7 FOR EXISTING EASEMENT NOTES. SEE SHEETS 28-31 FOR STORM DRAIN CONTRACT AND SHEETS 32-34 FOR SIDEWALK CONTRACT.

PROFILE: ALTA ROAD

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

OIAI BUSINESS PARK VTM 5505

SEE PG2021-LDMJRP-50008

FOR PROJECT: LDMJRP-50008

HAWAIIO SUBDIVISION VTM 55665

SEE PG2021-LDMJRP-50008

FOR PROJECT: LDMJRP-50008



PRIVATE CONTRACT

PROJECT NO. 2021-0001

DATE: 08/11/2021

PROJECT: ALTA ROAD & BUSINESS PARK ROAD

OWNER: OIAI BUSINESS PARK & HAWAIIO SUBDIVISION

COUNTY OF SAN DIEGO TRACTS 8800 & 8800A

CALIFORNIA COORDINATE INDEX 12N-17W

NO.	DATE	DESCRIPTION	APPROVED BY
1	08/11/2021	ISSUED FOR PERMIT	[Signature]
2			
3			

BENCH MARK

DESCRIPTION: BENCH MARK IN STREET CORNER AT INTERSECTION OF ALTA ROAD AND BUSINESS PARK ROAD

RECORD NUMBER: S.A.A. 12811, S.T. 12, S.E. 22

ELEVATION: 578.78

COUNTY APPROVED CHANGES

NO.	DATE	DESCRIPTION	APPROVED BY
1			
2			
3			

OIAI WATER DISTRICT REVISIONS

NO.	DATE	DESCRIPTION	APPROVED BY
1			
2			
3			

OIAI WATER DISTRICT

PROJECT NO. 2021-0001

DATE: 08/11/2021

ENGINEER: STEVEN S. CRESTO

REGISTERED PROFESSIONAL ENGINEER

NO. 49717

RECORD PLAN

DATE: 08/11/2021

ENGINEER: STEVEN S. CRESTO

REGISTERED PROFESSIONAL ENGINEER

NO. 49717

STEVENS CRESTO ENGINEERS

5655 Chesapeake Dr., Ste 200

San Diego, CA 92123

619-594-8800

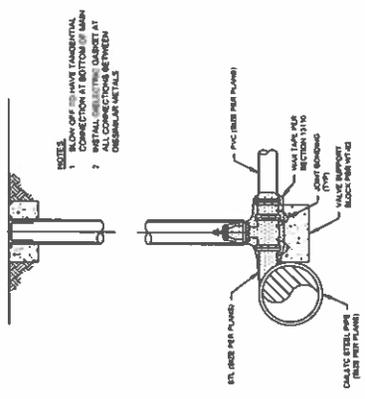
www.stevenscresto.com

ATTACHMENT A



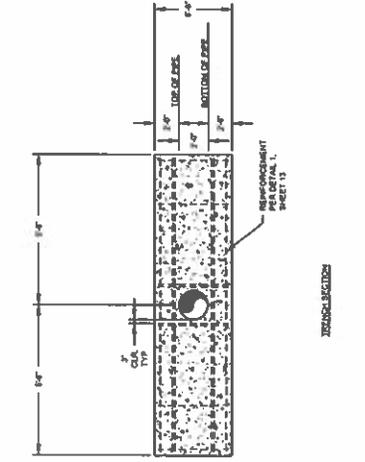
PRIVATE CONTRACT
 COUNTY OF SAN DIEGO
 PROJECT NO. 14-12-018
 SHEET NO. 14-12-018-01
 DATE: 11/14/14
 PROJECT: 14-12-018-01
 COUNTY OF SAN DIEGO TRACTS 8868 & 8869
 CALIFORNIA COORDINATE MODEL 13N-17N

OWD PROJECT: 01132-000374
 OWD FORM: 01-05-22-009



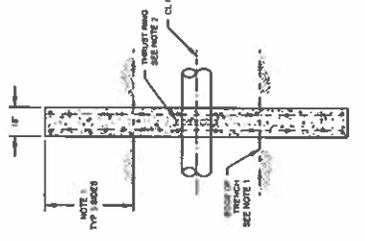
NOTES:
 1. BLOCK OFF END HAVE TANGENTIAL CONNECTION AT BOTTOM OF MAIN
 2. METALLIC GASKETS MUST BE USED AT
 3. DISASSEMBLE AT ALL JOINTS

TANGENTIAL OUTLET
 DETAIL
 NO SCALE



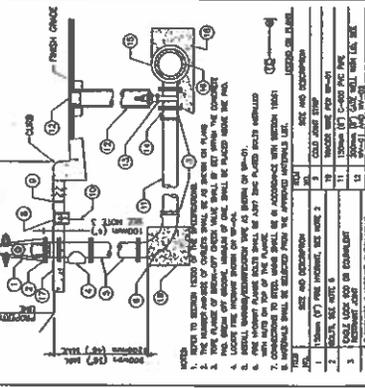
NOTES:
 1. EXTENSION BEYOND EDGE OF TRENCH POUR CONCRETE FOR EXTENSION HEAT ADJUST
 2. UNREINFORCED EARTH
 3. TRENCH RESTRAINT BASED ON DESIGN PRESSURE OF 250 PSI AND SOIL BEARING STRENGTH OF 1,500 PSF

THRUST COLLAR DETAIL
 DETAIL
 NO SCALE



NOTES:
 1. BLOCK OFF END HAVE TANGENTIAL CONNECTION AT BOTTOM OF MAIN
 2. METALLIC GASKETS MUST BE USED AT
 3. DISASSEMBLE AT ALL JOINTS

TANGENTIAL OUTLET
 DETAIL
 NO SCALE



NOTES:
 1. REFER TO SECTION 05110 FOR THE INSTALLATION OF THE VALVES AND FITTINGS.
 2. THE VALVES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 3. THE VALVES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 4. THE VALVES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
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 18. THE VALVES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 19. THE VALVES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 20. THE VALVES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

NORTH CONNECTION
 DETAIL
 NO SCALE

OWD PROJECT: 01132-000374
 OWD FORM: 01-05-22-009



NOTES:
 1. REVIEW OF THESE PLANS BY THE COUNTY OF SAN DIEGO IS FOR INFORMATION PURPOSES ONLY.

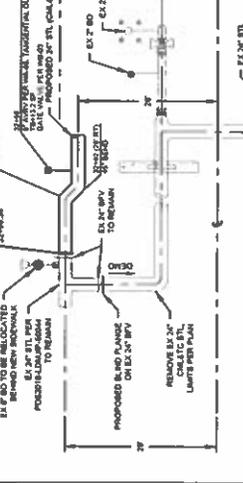
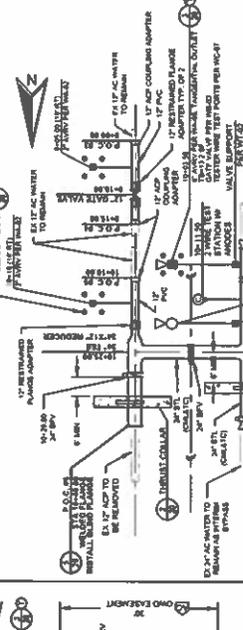
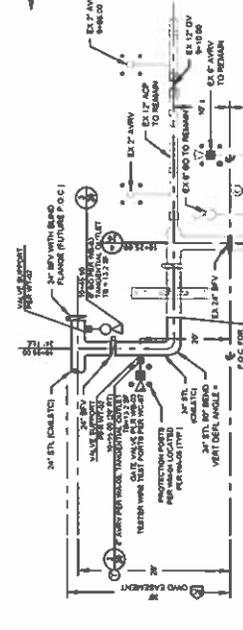


NOTES:
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NOTES:
 1. REVIEW OF THESE PLANS BY THE COUNTY OF SAN DIEGO IS FOR INFORMATION PURPOSES ONLY.

OWD PROJECT: 01132-000374
 OWD FORM: 01-05-22-009



OWD PROJECT: 01132-000374
 OWD FORM: 01-05-22-009



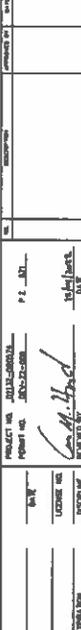
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 OWD FORM: 01-05-22-009



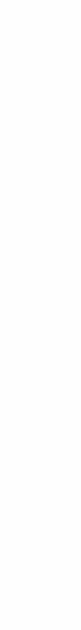
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 OWD FORM: 01-05-22-009



OWD PROJECT: 01132-000374
 OWD FORM: 01-05-22-009



OWD PROJECT: 01132-000374
 OWD FORM: 01-05-22-009



OWD PROJECT: 01132-000374
 OWD FORM: 01-05-22-009

NO.	REVISION	DATE	BY	CHECKED BY	APPROVED BY
1	AS-BUILT				
2	REVISIONS				
3	DISTRICT				
4	DISTRICT				
5	CONNECTION PHASE 2	10-28-10			
6	CONNECTION PHASE 1	10-28-10			
7	CONNECTION PHASE 2	10-28-10			
8	CONNECTION PHASE 1	10-28-10			
9	CONNECTION PHASE 2	10-28-10			
10	CONNECTION PHASE 1	10-28-10			
11	CONNECTION PHASE 2	10-28-10			
12	CONNECTION PHASE 1	10-28-10			
13	CONNECTION PHASE 2	10-28-10			
14	CONNECTION PHASE 1	10-28-10			
15	CONNECTION PHASE 2	10-28-10			
16	CONNECTION PHASE 1	10-28-10			
17	CONNECTION PHASE 2	10-28-10			
18	CONNECTION PHASE 1	10-28-10			
19	CONNECTION PHASE 2	10-28-10			
20	CONNECTION PHASE 1	10-28-10			



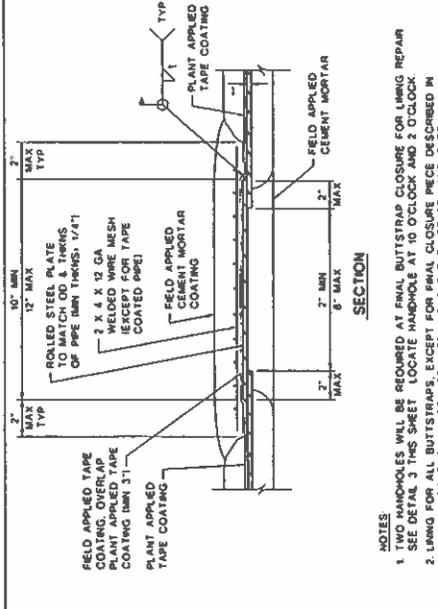


BUTT STRAP CLOSURE NOTES:

- 1 TACK WIRE TO UNDERSIDE OF CAP FOR MORTAR CONNECTION AND CUT INTERFERING PIPE PRIOR TO FIELD APPLYING MORTAR LINING AT UNDERSIDE OF CAP.
- 2 WELD PLATE CAP AFTER INSPECTION AND MORTAR LINING COMPLETE. REPAIR AND REFINISH WRAPPER INSTALLATION AND REPAIR.
- 3 BUTT STRAPS 1/4 PIPE DIAMETERS 18" AND GREATER SHALL HAVE TWO HANDBOLES AT 10 AND 2 O'CLOCK.

HANDHOLE FOR BUTTSTRAP CLOSURE

DETAIL NO SCALE 3/21

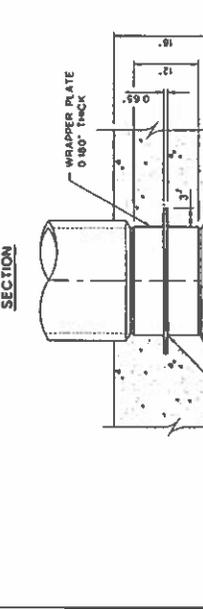
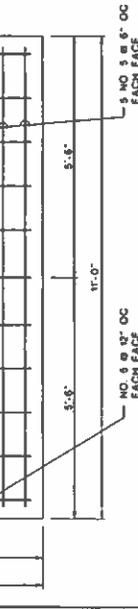
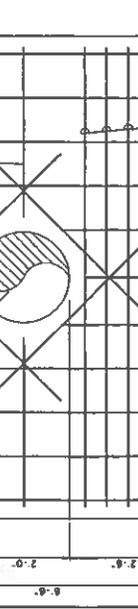
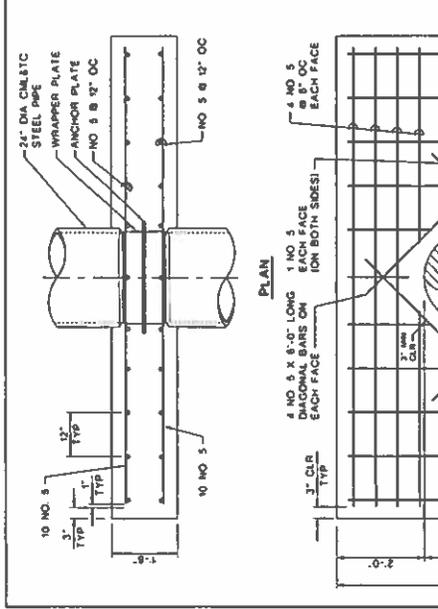


BUTTSTRAP CLOSURE

NOTES:

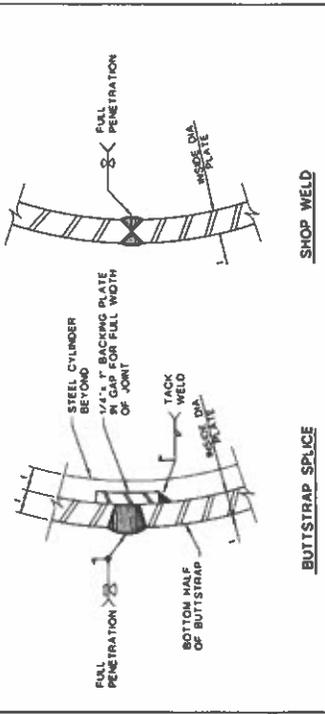
1. TWO HANDBOLES WILL BE REQUIRED AT FINAL BUTTSTRAP CLOSURE FOR LINING REPAIR. SEE DETAIL 3 THIS SHEET LOCATE HANDBOLE AT 10 O'CLOCK AND 2 O'CLOCK.
2. LINING FOR ALL BUTTSTRAPS, EXCEPT FOR FINAL CLOSURE PRECE DESCRIBED IN NOTE 1 ABOVE SHALL BE INSTALLED WITHOUT THE USE OF HANDBOLES.
3. ALL UNCOATED SURFACES INCLUDING BOLTS AND NUTS SHALL BE WAX TAPE COATED PER AWWA C-317.

DETAIL NO SCALE 2/21



THRUST ANCHOR ANCHOR PLATE DETAIL

DETAIL NO SCALE 1/21



BUTTSTRAP SPLICE & SHOP WELD

DETAIL NO SCALE 5/21

ATTACHMENT A

PRIVATE CONTRACT

COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS

ALTA ROAD & BERMUDE VIA ROAD
OTAY WATER DISTRICT REVISIONS

COUNTY OF SAN DIEGO TRACTS 8888 & 8889
CALIFORNIA CORPORATE INDEX 138-1391

PROJECT NO. 13-000574
POS0021-1-21-011P-01

NOTE: REVIEW OF THESE PLANS BY THE COUNTY OF SAN DIEGO IS FOR INFORMATION PURPOSES ONLY.

BENCH MARK

OTAY WATER DISTRICT REVISIONS COUNTY APPROVED CHANGES

DATE: 11/11/21

BY: [Signature]

OTAY WATER DISTRICT

OTAY WATER DISTRICT REVISIONS

COUNTY APPROVED CHANGES

DATE: 11/11/21

BY: [Signature]

OTAY WATER DISTRICT

OTAY WATER DISTRICT REVISIONS

COUNTY APPROVED CHANGES

DATE: 11/11/21

BY: [Signature]

OTAY WATER DISTRICT

OTAY WATER DISTRICT REVISIONS

COUNTY APPROVED CHANGES

DATE: 11/11/21

BY: [Signature]

OTAY WATER DISTRICT

OTAY WATER DISTRICT REVISIONS

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DATE: 11/11/21

BY: [Signature]

OTAY WATER DISTRICT

OTAY WATER DISTRICT REVISIONS

COUNTY APPROVED CHANGES

DATE: 11/11/21

BY: [Signature]

OTAY WATER DISTRICT

OTAY WATER DISTRICT REVISIONS

COUNTY APPROVED CHANGES

DATE: 11/11/21

BY: [Signature]



5 All spears shall be marked at both ends of the lining with "Lead Top" indicators.
 6. Minimum cylinder thickness for pipe shall be 8.33mm (0.250" or 1/4" or as decreed by the District Engineer.
 The wall thickness tolerances for steel pipe 200mm (8") diameter and larger shall be governed by the requirements of the ASTM specifications to which the plate or sheets are ordered, but in no case shall the thickness be less than 6.35mm (0.250" or 1/4") or as decreed by the District Engineer.
 E. Standard pipe sections shall not be less than 20' nor more than 40' in length, except where shorter lengths are required to fit horizontal and vertical alignment or are otherwise shown on the Approved Plans.
 F. Pipe ends shall be as follows:

1. Lead Welded Joints: Use expanded base with matching angle and
2. Flanges: Flanges for use in construction of Steel Pipe shall be as described below:
 a. AWWA C207, Class E flanges matching ANSI/ASME B16.1, Class 153 flanges for both hole size and diameter shall be used for pressures between 103 MPa and 172 MPa (150 psi and 250 psf)
- b. AWWA C207, Class F flanges matching ANSI/ASME B16.1, Class 250 flanges for both hole size and diameter shall be used for pressures between 172 MPa and 207 MPa (150 psi and 300 psf) or when Class 250 bolt/nut stress or other special requirements using flanges corresponding to AWWA C207, Class F are required.
- c. Flanges shall be flangeless type only. Segmented flanges shall not be used.
3. Bolt Straps: Use low-carbon alloy steel straps with a minimum thickness of 6.35mm (1/4") and a minimum width of 25.0mm (1 1/8"). Straps shall be fabricated to snugly fit over the pipe ends, and shall be centered over the ends of the pipe sections to be joined. Weld one or more standard 12.5mm (1/2") x 12.5mm (1/2") x 12.5mm (1/2") half-couplings to the bolt strap section as shown on the Approved Plans. Provide a threaded steel plug for each half-coupling.
4. Flexible Pipe Couplings: Use plain-end pipe with flangeless pipe couplings per AWWA C200. Provide joint assemblies per AWWA M11 where indicated on the Approved Plans.

5. Base ends shall be formed by an expanding press or by the pipe being moved freely over a die in such a manner as to stretch the steel plate beyond its elastic limit to form a heavy round head of suitable diameter and shape. The ends shall not be rolled. No welded rings will be allowed as substitution for expanded ends. Faying surfaces of the pipe and flange shall be essentially parallel, but in no case shall be less than 1 degree from the perpendicular line of the pipe.
6. Angles of Curves: In Alignment Minor changes in direction in the grade or alignment may be made by a deflection in the joint up to a maximum of 3/4-inch on one side of the joint. For greater angular deflections, pipe with ends beveled up to a maximum of 5 degrees measured from a plane perpendicular to the pipe axis may be used. For larger deflections, pipe shall be beveled up to a maximum of 10 degrees measured from a plane perpendicular to the pipe axis. In no case shall the deflection be greater than 10 degrees. Larger deflections shall be accommodated by beveled pipe as required, or where indicated on the Approved Plans, select short-radius bends that shall be provided.

H. Interior Lining of Pipe
 1. Cement Mortar Lining: Use concrete conforming to AWWA C205, except as noted below. As interior metal surfaces intended for defect buried services shall be coated Minimum Lining Thickness shall be as follows:
 Lining Thickness: 1/8"
 Tabernish: PER 15051-1.05 Hz

1. Exterior Coating of Pipe
 a. Exterior Coating of Exposed Parts: The exterior surfaces of pipe which will be exposed to the atmosphere inside structures or above ground shall be thoroughly cleaned and then given a shop coat of rust-inhibitive primer and then finish coating in accordance with the recommendations of Section 05910.
2. The exterior coating of the buried steel piping shall be polyethylene tape-coat with a 3/4" mortar overcoat
 a. The polyethylene tape coating shall be in accordance with Section 05910 and shall include a cement mortar overcoat as follows: Except as otherwise required, exterior surfaces of steel pipe, fittings, and sockets shall be cleaned and coated over the polyethylene wrap at the shop with reinforced cement mortar coating applied in conformity with ANSI/AWWA C203. During the operation and thereafter, the pipe shall be maintained in a round condition by suitable bracing or other means. The mortar coating shall be applied to the pipe after the polyethylene coating is damaged or found faulty, the damaged or unsatisfactory portions shall be replaced with coating conforming to these specifications. An additional coat of the Owner.
 e. The minimum coating thickness shall be a 3/4-inch thickness, with a tolerance of plus 25 percent.
 b. The pipe shall be left with a 1/2-inch wide groove from the end of the plastic tape to the cement mortar coating at each pipe end and where field joints occur. Ends of the coating shall be left square and uniform. Feathering or uneven edges will not be permitted.

- c. Defective coatings, as determined by the Construction Manager, shall be removed from the pipe ends and shall be replaced to the full thickness required. Defective coatings shall be cut back to a square shoulder in order to avoid feathered edges.
- d. The progress of the application of mortar coatings shall be regulated in order that all hand work, including the repair of defective areas, is cured in accordance with the requirements of the AWWA C203. All hand work shall be repaired and completed in 24 hours, except that a final grouting of sand and mortar richer in cement shall be used with lead inspection indicates that such was improved the finished coating of the pipe.

- J. The exterior surfaces of areas of exposed pipes and fittings that are not polyethylene tape coated with a mortar over coat, such as flanges, grooved ends or plain ends for butt-straps or flange couplings, shall be thoroughly cleaned in accordance with SSPC-SP10 - Near White Blast Cleaning, and coated in accordance with Specifications.
- K. The exterior surfaces of both of beveled ends and fittings that are not polyethylene tape coated with a mortar over coat, such as flanges, grooved ends, or plain ends for butt-straps or flange couplings, shall be thoroughly cleaned in accordance with Specifications, Section D110.
- L. The term "diameter of pipe" as used in these specifications or as shown on the Approved Plans, shall mean the net inside diameter of the pipe, lined.

NOTE: THE WORK OF THESE PAGES BY THE CONTRACTOR SHALL BE FOR INFORMATION PURPOSES ONLY.

BENCH MARK

DESCRIPTION	DATE	BY

OTAY WATER DISTRICT REVISIONS	COUNTY APPROVED CHANGES

NO.	DATE	BY	DESCRIPTION

AWWA C200 - Steel Pipe-Design and Installation
 AWWA C203 - Cement Mortar Lining of Steel Pipes
 AWWA C205 - Concrete for Pipe and Structures
 AWWA C207 - Class E and F Flanges for Water Service
 AWWA C208 - Steel Pipe Flanges for Water Service
 AWWA C210 - Dimensions for Fabricated Steel Pipe Fittings
 AWWA C211 - Tape Coating Systems for the Exterior of Steel Water Pipes
 AWWA C212 - Coated Reinforcing Bars for Pipe
 AWWA C214 - Grooved and Shouldered Joints
 AWWA M11 - Steel Pipe-Guide for Design and Installation
 ASTM A 36/A 36M - Standard Specification for Carbon Steel Plates
 ASTM A 53 - Standard Specification for Pipe, Black & Hot Dipped, Zinc-Coated, Welded, and Stamped
 ASTM A 105 - Standard Specification for Carbon Steel Forgings for Piping Applications
 ASTM A 106/A 106M - Standard Specification for Steel Pipe, Hot Rolled, Carbon, Structural, High-Strength, Low-Alloy and High-Strength Low Alloy with Improved Formability
 ASTM A 83 - Standard Specification for Carbon, Steel, Track Bolts and Nuts
 ASTM A 216 - Standard Specification for Steel Castings, Carbon, Suitable for Fusion Welding for High Temperature Service
 ASTM A 204/A 204M - Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates
 ASTM A 536 - Standard Specification for Ductile Iron Castings
 ASTM A 563/A 563M - Standard Specification for Steel, Sheet and Strip, Hot Rolled, Carbon, Hot-Rolled, Structural Quality and Cold Rolled
 ASTM D 2000 - Standard Specification for Rubber Products
 ANSI B17.1 - Square and Hex Bolts and Nuts
 ANSI B17.2 - Hex and Hex Flange Screws
 ANSI B17.3 - Pipe Nuts, General Purpose (inch)

1.3 RELATED WORK SPECIFIED ELSEWHERE
 WAS Standard Drawings
 Sections 0222, 03305, 08910, 09910, 13110, 15000, 15041 and 15044
 14. NOT USED

15. QUALIFICATION OF MANUFACTURERS
 Factory supplied pipe lining and coating is an element of the completed pipe. Only manufacturers who provide a completed lined and coated pipe can be qualified for this work. The Contractor shall be responsible for providing the complete list of qualified and lined pipe without altering or modifying the Contractor's responsibilities under the Contract Documents. All manufacturers shall be qualified by the Contractor's Engineer, and shall be approved by the Engineer. The Contractor shall be responsible for providing the Contractor's Engineer with a list of manufacturers, with their names, addresses, and telephone numbers, for at least five years and has completed at least three similar projects of 24" diameter or larger.

16. SPECIALS
 A special is defined as any piece of pipe other than a normal full length of straight pipe. This includes, but is not limited to, elbows, short pieces, reducers, tees, crosses, spools, sections with outlets, beveled sections and manholes.

17. DESIGN REQUIREMENTS
 A All steel used for pipe or specialties shall have a 30,000 psi minimum yield point unless otherwise shown on the Approved Plans or as decreed by the District Representative. See material information concerning steel designation below.
 B Design stress in steel changes shall not exceed 50% of the specified minimum yield strength of the steel used. The internal operating pressure used for design shall be a 50% OR minimum of 300 psi above the operating pressure or as shown on the Approved Plans, whichever is greater. No allowance shall be made for the tensile strength of the cement mortar lining and coating.

C. Specials shall be designed per AWWA M11 and as a minimum shall conform to the pressure rating, grade of steel and change thickness of the adjoining standard pipe sections. Flange dimensions shall conform to AWWA C208. Reinforcing covers, wrappers, crutch plates, and anchor rings shall be designed and fabricated per AWWA M11.
 1. Outlets may be built into the wall of the pipe or may be fabricated as steel plate tees. Outlets of size 2" and larger in diameter shall be of the increased type or shall be extra-heavy wall couplings to the pipe as specified in AWWA M11. Outlets of size 1, 1 1/2, and 2" shall use a tee or malleable with a flanged outlet. All outlets larger than 2" shall use a tee or malleable with a flanged outlet. All outlets larger than 2" shall use a tee or malleable with a flanged outlet. All outlets larger than 2" shall use a tee or malleable with a flanged outlet. All outlets larger than 2" shall use a tee or malleable with a flanged outlet.
 2. On 2" and smaller outlets where nylon insulation bushings are to be used, the outlet shall be increased in size to accept the bushing.

3. Tees, wyes, and crosses shall be designed in accordance with AWWA C208, Table 1, or as implied on the Approved Plans in diameter that be provided with a minimum centerline radius of not less than 2.5 times the pipe diameter and provide the number of pieces as tabulated below, unless otherwise shown on the Approved Plans.

Deflection Angle	Number of Pieces
0 to 22 degrees	2
Greater than 22 to 45 degrees	3
Greater than 45 to 60 degrees	4
Greater than 60 to 90 degrees	5

O.T.A.Y. WATER DISTRICT
 PROJECT NO. 0333-0132
 SHEET NO. 0333-0132-00034

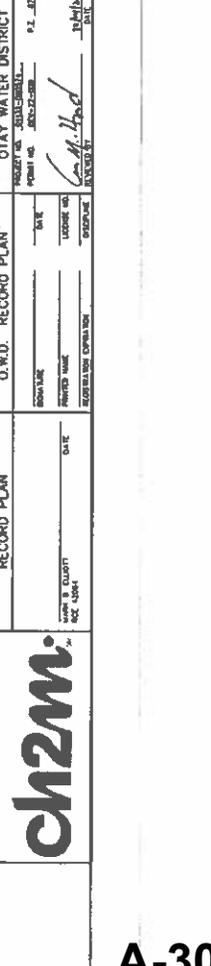
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18 QUALITY ASSURANCE

- A. Cement-mortar pipe and steel coated with mortar overcoat steel pipe shall be inspected at the supplier's manufacturing plant in accordance with the approved Drawings and Specifications and the District's Representative, if the manufacturing plant is more than 200-miles from the District Representative's office.
- B. In addition to the shop hydrostatic testing performed on pipe cylinders (covered per AWWA C200, all welds of specials and attachments to joint rings and nozzles) shall be tested by a representative process. Certification of such testing shall be submitted to the District Representative.
- C. Field welders shall be certified under Section IX, Part A of the ASME Boiler and Pressure Vessel Code or in accordance with AWWA C200, Section 3. Welders shall present a copy of their certification to the District Representative prior to performing any field welding. Certifications shall be dated within three (3) years of the job to be performed.
- D. Plans may mark length of straight pipe and each special at the end to identify the proper section of the pipe item by reference to the layout schedule.
- E. The top of all pipe and specials shall be clearly identified by marking the top with "TOP" for easy identification in the field.

19 DELIVERY, STORAGE, AND HANDLING

- A. Delivery, storage, and handling of the pipe and specials shall be as follows:
 - 1. Pipe and fittings shall be carefully handled and shall be protected against damage to linings and coatings due to impact shocks. Pipe shall not be placed directly on rough ground but shall be supported in a manner which will protect the pipe against damage whenever stored at the site or elsewhere. Pipe shall be handled and stored per these requirements and in accordance with the manufacturer's recommendations.
 - 2. Temporary internal bracing shall be installed in all pipe 16" and larger prior to shipment to the job site. Temporary internal bracing shall be 2" x 4" wooden struts installed in both the horizontal and vertical directions. Each set of struts shall be nailed together as a unit. Wooden wedges may be used to maintain the proper tight fit of the internal bracing. The bracing shall be located 12" from each end of the pipe section for all pipe, and additionally at the midpoint for piping 24" and larger. Minimum internal bracing at specified under pipe installation.
 - 3. Transport pipe to the job site on padded trucks with nylon tie-down straps or padded banding to protect the pipe.
 - 4. Pipe and specials shall only be handled with appropriate spreader bars and wide nylon slings. Chains or wire rope slings shall not be used. Under all circumstances steel pipe or specials be pushed or dragged along the ground. All pipe sections over 20' in length shall be lifted at the quarter points from each end.
 - 5. Store pipe on earth berms or timber crips adjacent to the trench in the numerical order of installation. Place the supports at about the one-quarter point from the pipe ends.
 - 6. Maintain plastic and caps on all pipe and specials in good condition until the pipe is ready to be installed in the trench. Periodically open the plastic end caps and spray potable water inside the pipe for moisture control.

110 CONTRACTOR SUBMITTALS

- The following shall be submitted in compliance with Section 03300 Submittals:
 - A. An affidavit of compliance with AWWA C200 and C205
 - B. Certificate stating that all materials in contact with potable water system are NSF approved for use with potable water.
 - C. Submit detailed shop drawings for the pipe and specials showing:
 - 1. Order of installation and closures with designation by pipe number for each steel pipe and fabricated special to be furnished and installed.
 - 2. Pipe station and invert elevation (E) at each change of grade and horizontal alignment.
 - 3. Elements of curves and bends, both in horizontal and vertical alignment including elements of the resultant live angular deflections in case of combined curve.
 - 4. Pipe outside and inside diameter, wall thickness, location of welded seams, and internal design pressure.
 - 5. Locations of buttheads for field hydrostatic testing of positive hydrostatic testing agent; valves shall not be permitted.
 - 6. Locations of closures, including cut-in/fit allowances, for length adjustment and for construction convenience.
 - 7. Locations of valves, flanges, manholes, appurtenances and other mechanical equipment.
 - 8. Limits of concrete encasement.
 - 9. Call out pipe sizes and dimensions of thrust ring collars, grooves and collars, flanges, reinforcing collars, wrapper plates, and crown plates.
 - D. Submit joint details.
 - E. Details of all specials and of the pipe lining and coating.
 - F. Calculations supporting the sizing of reinforcing collar plates, wrapper plates or crown plates.
 - G. Calculations supporting selected wall thickness of pipe and specials.
 - H. Calculations supporting welded joint design and joint welding details.
 - I. Current shop welder and field welder certifications. Submit welding procedure specifications (WPS) and procedure qualification records (PQR) for each welding process.
 - J. Certification of dye-penetrant shop-weld testing.
 - K. Cathodic Protection design and installation details.
 - L. Drawings of bolt straps, chokings, and flanges.
 - M. Details of buttheads and of their method of attachment to the pipeline.
 - N. Certificate that cement complies with ASTM C150, designating type

- O. Shop drawings of all pipes and specials shall be submitted for review. Shop drawings shall be complete in all respects. If the shop drawings show any deviations from the requirements of the Approved Drawings and Specifications due to standard shop practices or other reasons, the deviations shall be noted along with the reason for the deviation in the Shop Drawing Submittal Form.
- P. Submit fabricator's quality control program results in one complete binder, including all inspection reports, tests conducted, certified test results, weld test reports, control program results shall document all phases of the fabrication process and be delivered prior to substantial completion of the project.

111 NOT USED

112 WAX TAPE

113 TRACER WIRE

Tracer wire shall be installed on all potable and recycled water mains in accordance with Section 15000.

114 WARNING/IDENTIFICATION TAPE

Warning/Identification Tape shall be installed on all potable and recycled water mains in accordance with Section 15000.

PART 2 - MATERIALS

21 STEEL PIPE AND SPECIALS

Steel pipe and specials shall conform to the requirements of the AWWA C200 and C205, and AWWA M11, except as modified herein.

- A. Steel for fabricated cylinders shall conform to ASTM A36/A36M, ASTM A1011/A1011M, Grade 36, or ASTM A1018/A1018M, Grade 36. Other steel grades may be used only upon approval of the District Representative.

22 POLYETHYLENE TAPE COATING WITH MORTAR OVERCOAT (ROCK SHIELD)

Polyethylene tape coating with mortar overcoat shall be in accordance with Section 08910. Cement mortar over-coating shall be reinforced in accordance with AWWA C205. Ready testing shall be conducted from where V = 1250-77
 where V = Test velocity, volts
 T = Total tape coating system thickness, mils

23 MORTAR LINING AND OVER-COAT

- A. Cement used in mortar lining and over-coating shall be Portland cement per ASTM C 150, Type V for coating and Type II for lining.
- B. Cement-mortar over-coating shall be reinforced in accordance with AWWA C205.
- C. Cement mortar grout for filling joints shall consist of a mixture of 1 1/2 to 2 parts sand to 1 part Type II Portland Cement with enough clean, potable water to permit packing and troweling without clumping. The sand shall be washed, well-graded sand such that it will pass a No. 8 sieve. The quantity of water to be used in the preparation of grout shall be the minimum required to produce a mixture sufficiently workable for the purpose intended. Grout shall attain a minimum compressive strength of 7.2 MPa (1050 psi) in 28 days.
- D. In certain circumstances, rapid-setting mortar may be required. Acceleration admixtures may be used in the mix as permitted by the District Engineer. Chloride shall not be used in the mix.

24 PAINTING AND COATING

- A. Paint and coating products for exterior surfaces of all pipe and appurtenances not otherwise coated shall be in accordance with Section 09910 and the Approved Materials List.
- B. Paint and coating products for areas in contact with potable water such as clean ends of pipe, grooves and shouldered ends of pipe and recessed inside surfaces of threaded outlets and hand langes shall be in accordance with Section 15000 and selected from the Approved Materials List.

25 BOLTS AND NUTS FOR FLANGES

Bolts and nuts shall be in accordance with W.S. Specification Section 15000 and the Approved Materials List.

26 GASKETS

- A. Flange gaskets shall comply with AWWA C207. Flange gaskets shall be 1/4" thick acrylic or aramid fibers bound with nitrile for all sizes of pipe. Gaskets shall be full-face type with pre-punched holes or ring-type extending to the inner edge of the bolt circumference of the flange.
- B. In the event of encountering organic solvents or petroleum products during the course of the work, alternate gasket materials or joint treatment will be required as directed by the District's Representative.

27 JOINT BONDING AND CATHODIC PROTECTION

Joint bonding, flange insulation kits, internal epoxy linings, and cathodic protection materials shall be provided as detailed on the Approved Plans and in accordance with Section 1310 and the Approved Materials List.

28 TRENCHING, EXCAVATION, BACKFILLING AND COMPACTION

Trenching, excavation, backfilling, and compaction shall be performed in accordance with Section 02223.

ATTACHMENT A



COUNTY OF ALAMEDA DISTRICT OF EAST BAY DISTRICT ENGINEER DATE: _____ PROJECT: 031132-000374 OWD PERMIT: 16EY-22-009	
PRIVATE CONTRACT CONTRACT NO. _____ CONTRACT VALUE: \$ _____ CONTRACT DATE: _____ CONTRACTOR: _____ PROJECT: ALTA ROAD & SHENEPPE VIVA ROAD COUNTY OF ALAMEDA DISTRICT OF EAST BAY CONTRACT NO. 031132-000374 PROJECT: 031132-000374 OWD PERMIT: 16EY-22-009	
NOTE: REVIEW OF THESE PLANS BY THE COUNTY OF ALAMEDA FOR THE DISTRICT OF EAST BAY IS LIMITED TO TECHNICAL ASPECTS ONLY.	
BENCH MARK LOCATION: _____ ELEVATION: _____ DATE: _____	COUNTY APPROVED CHANGES COUNTY OF ALAMEDA DISTRICT OF EAST BAY DISTRICT ENGINEER DATE: _____
O.T.A.Y. WATER DISTRICT PROJECT NO. 031132-000374 PERMIT NO. 16EY-22-009 DATE: _____ DISTRICT ENGINEER: _____	O.T.A.Y. WATER DISTRICT PROJECT NO. 031132-000374 PERMIT NO. 16EY-22-009 DATE: _____ DISTRICT ENGINEER: _____
RECORD PLAN DATE: _____ DRAWN BY: _____ CHECKED BY: _____ REGISTERED DESIGNER: _____	O.W.D. "RECORD PLAN" DATE: _____ DRAWN BY: _____ CHECKED BY: _____ REGISTERED DESIGNER: _____

NOTE:
 VERIFY ALL MATERIALS ARE
 APPROVED BY THE
 DISTRICT REPRESENTATIVE
 BEFORE PROCEEDING WITH
 ANY WORK.

- 2.10 CONCRETE
- Concrete used for linest and anchor bolts shall be in accordance with Section 03000
- 2.11 WAX TAPE
- Wax tape materials shall be in accordance with Section 13100 and the Approved Materials List
- 2.12 POLYETHYLENE TAPE COATING
- Tape coatings shall be in accordance with Section 09100
- 2.13 TRACER WIRE
- Tracer wire materials shall be in accordance with Section 15000 and the Approved Materials List

- 2.14 WARNING/IDENTIFICATION TAPE
- Warning/identification tape materials shall be in accordance with Section 15000 and the Approved Materials List

- 3.1 GENERAL
- A. At all times when the work of installing pipe is in progress, including mortar break lines, the ends of the pipe shall be closed with a vermin-proof and child-proof cap or plug. Do not permit trench water to enter the pipe. Do not place tools, clothing, or other materials in the pipe. The Contractor shall maintain the interior of the pipe in a sanitary condition free from foreign materials.
- B. There shall be absolutely no backfilling, excavation, or conduction activities being performed during welding, inspection, or while anyone is inside the pipe or in the pipe trench. The Contractor is fully responsible for safety during the entire project duration.
- 3.2 TRENCHING, EXCAVATION, BACKFILLING AND COMPACTION
- A. Trenching, backfilling and compaction shall be performed in accordance with Section 02223
- 3.3 DEWATERING

The Contractor shall provide, and maintain at all times during construction, single means and devices to promptly remove and dispose of all water from any source entering trench excavations or other parts of the work. Any damage caused by flooding of the trench shall be the Contractor's responsibility.

Dewatering shall be performed by methods that do not cause any excavation, disturbance of the soil, or any other safety hazard. If flooding of the trench does occur, the Contractor shall immediately dewater and restore the trench. Damaged or altered pipe appearances shall be repaired or replaced as directed by the District Representative.

3.4 PIPE INSTALLATION

When the work requires and the size of the pipe allows entry of personnel into the pipe, the Contractor shall comply with all Federal and State regulations for confined space entry. Work within pipes shall not be undertaken until all the tests and safety provisions of the Code of Federal Regulations 1910.146, and the General Industry Safety and Health Administration 29 CFR 1915.104 are met. The Contractor shall be responsible for obtaining all necessary permits, including but not limited to, confined space entry permits.

The Contractor shall furnish and install all pipe supports, bracing, splices, nuts, gaskets, jointing materials, and all other appearances as shown on the Approved Plans and as required to provide a complete and workable installation.

Pipe installation shall be as shown on the Approved Plans and Shop Drawings in accordance with the following:

- A. No pipe shall be installed where the joints or coatings show cracks, delamination, or other defects that are detrimental to the pipe coating system in accordance with AWWA C200 and as determined by the District Representative. Such damaged joints and coatings shall be repaired, or the undamaged pipe sections shall be provided at no additional cost to the District.
- B. Pipe damaged prior to Substantial Completion shall be repaired or replaced by the Contractor.
- C. The Contractor shall inspect each pipe and fitting to ensure that there are no damaged portions of the pipe. The Contractor shall remove or smooth out any burrs, gouges, weld splatter, or other small defects prior to laying the pipe. The District Representative shall determine if pipe to be installed is acceptable.
- D. Before placement of pipe in the trench, each pipe or fitting shall be thoroughly cleaned, checked for any defects, and shall be inspected, stored, and shall be kept clean at all times thereafter. For this purpose, the openings of all pipes and fittings in the trench shall be closed during any interruption to the work as noted above.
- E. Pipe shall be laid directly on the bedding material. No blocking will be permitted, and the bedding shall be such that it forms a continuous, solid bearing for the full length of the pipe. The bedding material shall be placed in the trench and compacted before the pipe is laid. Bed bolts shall be formed at the ends of the pipe to prevent movement of the pipe in the trench. Bed bolts shall be installed in the trench and compacted before the pipe is laid. Bed bolts shall be installed in the trench and compacted before the pipe is laid. Bed bolts shall be installed in the trench and compacted before the pipe is laid.
- F. Installation Tolerances. Each section of pipe shall be laid in the order and position shown on the approved layout schedule to the proper lines and grades in accordance with the following:
 - 1. Each section of pipe having a nominal diameter less than 48" shall be laid not to vary more than 2" horizontally or 1" vertically from the alignment and elevations shown on the Approved Plans.
 - 2. Each section of pipe having nominal diameter 48" and larger shall be laid not to vary more than five percent (5%) of the pipe diameter horizontally or two and one half percent (1 1/2%) of the pipe diameter vertically.
 - 3. In addition to the horizontal and vertical tolerances above, lay the pipe so that no high or low points occur along the pipeline other than those shown on the approved layout schedule.
- G. Where necessary to raise or lower the pipe due to unforeseen obstructions or other causes, the District Representative may change the alignment and/or the elevation. Such change shall be made by the deflection of the joints by the use of additional fittings. However, in no case shall the deflection of the joints be more than 1/2" per foot. The deflection of the joints shall be determined by the strength and water tightness of the finished joint. In all cases the joint opening before finishing with the protective mortar inside the pipe shall be the controlling factor.
- H. Pipes shall be laid above or grades according to permits. Pipe that is laid on a dewatered grade shall be braced and held in place until the following pipe section has been installed to provide sufficient support to prevent movement.

- I. Temporary internal pipe bracing shall be left in place in pipe sizes larger than 24" until the pipe zone connection has been completed. Bracing in pipe sizes larger than 24" may be removed immediately after the pipe has been laid into the trench. The Contractor shall employ a laboratory to monitor pipe deflection by measuring pipe inside diameter before bracing is removed and 24 hours after struts are removed. Pipe deflection shall not exceed 3 percent in 24 hours after the bracing has been removed. After the bracing has been placed, the struts shall be removed.
- J. Cold Weather Protection. No pipe shall be installed when a foundation exists which frost has penetrated or any time that there is a danger of the formation of ice and generation of frost at the bottom of the excavation. No pipe shall be laid unless it can be established that the trench will be backfilled prior to formation of ice and frost.
- K. Pipe and Spacing Protection. The outside of all pipe and spacers where the pipe and spacers have been mortared in the shop shall be protected with suitable materials to maintain a moist atmosphere and to prevent unauthorized access by persons, animals, water, or any undesirable substance. The materials shall be designed to prevent drying out of the interior of the pipe. The Contractor shall introduce water into the pipe to keep the mortar moist where moisture has been lost due to damaged backfills.

3.5 FIELD WELDED JOINTS

- A. Welded joints shall be completed in the trench per AWWA C205
- B. Both the pipe and spigot ends shall be cleaned of foreign matter prior to welding.
- C. For pipe diameters less than 24" the exterior of the joint shall be welded. For pipe diameter 24" and larger, the joint shall be welded in accordance with the approved submittal. All welded joints shall remain exposed until inspection has been performed.
- D. Welding electrodes shall be approved by the district, and recommended by the manufacturer. Electrodes shall be E6010 for root passes and E7018 for additional passes unless otherwise approved. Do not use D₂ deposit more than 1/8" of fresh thickness per peak.
- E. Weld materials shall be deposited in successive layers. Complete and clean each pass around the entire circumference of the pipe before commencing the next pass.
- F. The minimum number of passes in the completed weld shall be as follows:

Steel Cylinder	Fillet Weld Maximum Thickness (inches)	Number of Passes
0.2500 or 1/4" or less	3	2
Greater than 0.2500 or 1/4"	3	3

- G. To minimize longitudinal stresses due to temperature variations, it is necessary to leave unweaved one joint per each 400' of pipeline. This joint shall be left in the trench until the end of the day of the work, and it shall be welded at the earliest time of the morning after. The District Representative shall decide if and when this procedure is warranted.
- H. After-welding the joint may be permitted to hold the pipe in place if the joint is to be circumferentially welded, sufficient time shall be allowed to allow for an initial set of the joint prior to proceeding with joint welding. Repositioning the pipe may be used in accordance with this Section. In some cases, the District Representative may require that joints be welded.
- I. Field welds shall be certified in accordance with ASME Section 8 (pipe welds) or AWS D11 (plate welds). Welders shall be qualified in the job position, within three years of the date of the project to be performed and shall have a minimum of 3 years experience. Welders shall submit a copy of their certification to the District Representative prior to performing any field welding.
- J. Prior to full-strength welding, the pipe and spigot joint shall be properly positioned in the trench using tie-up devices so that, in the finished joint, the spigot joint sections shall not be misaligned by more than 1/16".
- K. The pipe ends shall be cut straight on joints where butt straps are used for replacement, adjustment, or deflection, and field welds shall be made as indicated in the Approved Plans.
- L. Inspection of Field Welded Joints.

The Contractor shall retain and pay for the services of a weld inspection firm to perform weld inspection on all welded joints. Firm qualifications active AWS/CCL and NDT Level 2 in pipe welding shall be provided in accordance with the approved submittal.

The Contractor shall weld the joints in the trench in the order and position shown on the approved layout schedule. As welds shall be visually inspected by the Contractor. The Contractor shall test 50 percent of all field lap welds by the Standard Method for Liquid Penetrant Examination in accordance with ASTM E 165-02. The Contractor shall perform visual inspection and dimensional inspection in all weld appearance connections. The Contractor and their testing firm shall provide reports of testing inspections to the District Representative for approval.

- 2. The Contractor shall coordinate and supply ventilation, lighting, and other equipment deemed necessary for inspection. The Contractor shall be responsible for providing safe entry into and out of the trench, safety of inspection personnel, traffic control and other safety precautions deemed necessary for the inspections.
- 3.1 INTERIOR JOINT FINISH - PIPE LESS THAN 24"

Complete interior mortar joints for pipe sizes less than 24" by drawing through a tight fitting strainer or squeegee. Coat the face of the cement mortar lining at the pipe with a sufficient amount of stiff cement mortar to fill the gap. Immediately after joining the pipes, draw the strainer through the pipe to remove all excess mortar and deaden it from the open pipe end. Do not move the pipe after the sand has been placed over the joint. See requirements under "Field Welded Joints" for these joints regarding bedding.

- 3.2 INTERIOR JOINT FINISH - PIPE 24" AND LARGER
- A. Complete interior mortar joints for pipe sizes 24" and larger by the trowel method. Prior to applying interior mortar at the joints, all debris in the area shall be contained. After cleaning the interior joint, back cement mortar into each joint. Finish the surface with a steel trowel to a smooth finish and about the adjoining pipe mortar.
- B. Where more than a 1/4" joint exists, mortar is required. Place bituminous mastic sealant in the joint. Sealant shall be applied in a 2" wide band over the excess mastic sealant to support the mesh 3/8" from the metal surface. Steel-trowel finish the interior mortar to match adjoining mortar-lined pipe sections.

C. Closed circuit television (CCTV) inspection of the pipe interior shall be performed on all steel pipe in the presence of the District Representative. Views of inspections shall be in DVD format with footage counter shall be provided to the District Representative.

3.9 EXTERIOR JOINT FINISH

A. Type wrapped mortar over coal steel pipe joints shall be coated with polyethylene tape or heat shrinkable sleeves and mortar over coal and shall conform to the requirements of Section 0880.

NO.	DESCRIPTION	UNIT	QUANTITY	DATE

RECORD PLAN	O.W.D. "RECORD PLAN"	OTAY WATER DISTRICT
DATE: _____	SIGNATURE: _____ PROJECT NAME: _____	PROJECT NO. 0223-20-0001 SHEET NO. 0223-20-0001-01
DATE: _____	SIGNATURE: _____ PROJECT NAME: _____	PROJECT NO. 0223-20-0001 SHEET NO. 0223-20-0001-01



CH2M HILL

OTAY WATER DISTRICT PROJECT NO. 0223-20-0001 SHEET NO. 0223-20-0001-01

DATE: _____

PROJECT NAME: _____

PROJECT NO. 0223-20-0001

SHEET NO. 0223-20-0001-01

ATTACHMENT A

PRIVATE CONTRACT

OTAY WATER DISTRICT PROJECT NO. 0223-20-0001 SHEET NO. 0223-20-0001-01

DATE: _____

PROJECT NAME: _____

PROJECT NO. 0223-20-0001

SHEET NO. 0223-20-0001-01

ALTA ROAD & BENDIRE VVA BO
 OTAY WATER DISTRICT PROJECT NO. 0223-20-0001 SHEET NO. 0223-20-0001-01

COUNTY OF SAN DIEGO TRACTS 8808 & 8809

CALIFORNIA COMMERCIAL MODEL LSP-1701

PROJECT NO. 0223-20-0001

SHEET NO. 0223-20-0001-01

B. The outside exterior faces between pipe sections shall be completely filled with grout formed by the use of polyethylene foam-lined fabric bands after the joint is coated with polyethylene tape or heat shrinkable sleeves. The foam sleeves shall be fastened with water proofing tape. The joint shall be filled with grout to the surface of the joint to be in contact with the grout and be thoroughly moistened when the grout is poured. The joint shall be filled with grout from one side only. Grout shall be rodded with a wire or other tooling rod or vibrator so that the grout completely fills the joint recess by moving down one side of the pipe, around the bottom of the pipe and up the opposite side. Pouring the grout into the joint shall be completed to allow completion of the raising of the entire joint recess in one operation. Care shall be taken to ensure that the grout is completely filled. The grout joint recess shall be kept as close behind the laying of the pipe as possible except that in no case shall grouting be nearer than three points of the pipe band end.

C. The foam bands or heavy-duty papers shall be polyethylene foam-lined fabric with steel strapping of sufficient strength to hold the fresh mortar, resist rodding or the use of other tools. The foam bands shall be cut and stored in a dry, clean, well-ventilated area, free from moisture, dirt, fumes, and other contaminants. The foam bands shall be stored in a dry, clean, well-ventilated area, free from moisture, dirt, fumes, and other contaminants. The foam bands shall be stored in a dry, clean, well-ventilated area, free from moisture, dirt, fumes, and other contaminants. The foam bands shall be stored in a dry, clean, well-ventilated area, free from moisture, dirt, fumes, and other contaminants.

3.10 COATING REPAIRS

A. Coating repair for polyethylene tape coated and mortar over-coated pipe shall conform to the requirements of Section 09810 and this Section. When usual inspection shows or seems to indicate that a portion of the coating system has sustained physical damage, as determined by the Construction Manager, the damaged area shall be subjected to an electrical holiday test of 5,000 to 7,000 volts. If the holiday test indicates failure of the coating system, the coating shall be repaired and re-tested at the option of the Construction Manager.

B. Following repair of the damaged area if the holiday test indicates a holiday still exists, the inner wrap of the taped joint shall be exposed and the exposed area shall be sanded clean with a solvent, or acid, and the area coated with tape primer. A patch of 38-mesh color-applied tape of sufficient size to cover the damaged area shall be applied to the joint. The patch shall be applied to the joint with sufficient overlap to extend beyond the edges of the damaged area. The patch shall be applied to the joint with sufficient overlap to extend beyond the edges of the damaged area. The patch shall be applied to the joint with sufficient overlap to extend beyond the edges of the damaged area.

3.11 BUTT STRAP JOINTS

A. Butt strap closure joints shall be installed where shown on the Approved Plans in accordance with AWWA C200.

B. Butt straps shall be fastened to the outside pipe end of the pipe along both edges with a full circumferential weld. A minimum of two weld passes shall be used.

C. The interior of the joints shall be fastened with a red-lead mortar and finished off smoothly to match the pipe interior diameter.

D. Clean the butt strap with wire brush and apply a cement and water wash coat prior to applying cement mortar.

E. Grout the exterior of the damaged area with tape coating in accordance with Section 09810.

F. Seal the interior of the closure assemblies with tape coating in accordance with Section 09810.

3.12 FLANGED CONNECTIONS

A. Flanged connections shall be installed where indicated on the Approved Plans.

B. Bolt holes shall straddle the horizontal and vertical centerlines.

C. The bolts, nuts and flange faces shall be thoroughly cleaned by wire brush prior to assembly.

D. Bolts and nuts shall be lubricated with a District-approved anti-seize compound.

E. Nuts shall be tightened in an alternating "star" pattern to the manufacturer's recommended torque.

F. Slip-on type flanges intended for field fit-up and welding shall be welded inside and outside in accordance with AWWA C207.

G. Coat the exterior of exposed flanges, bolts and nuts in accordance with Section 09910.

3.13 FLANGED COUPLING ADAPTERS

Flanged coupling adapters shall be installed in accordance with the manufacturer's recommendations. Bolts shall be tightened with a torque wrench in the presence of the District's Representative to the torque recommended by the manufacturer.

3.14 JOINT BONDING/CATHODIC PROTECTION INSULATION

Bonding of joints to provide continuity, flange insulation kits, internal epoxy linings, and other cathodic protection items and materials shall be installed where shown on the Approved Plans in accordance with the Standard Drawings and Section 1310.

3.15 WAX TAPE

Wax tape shall be installed as shown on the Approved Plans or as directed by the District's Representative in accordance with Section 1310 and the Standard Drawings.

3.16 CONCRETE

Where required, concrete thrust and anchor blocks shall be installed in accordance with Section 03000 and as shown on the Approved Plans. Prior to laying the pipeline with water, refer to Section 03000 for the minimum concrete curing time required.

3.17 TRACER WIRE

Tracer Wire shall be installed in accordance with Section 15000 and the Standard Drawings.

3.18 WARNING/IDENTIFICATION TAPE

Warning/identification Tape shall be installed in accordance with Section 15000 and the Standard Drawings.

3.19 DISINFECTION AND BACTERIOLOGICAL TESTING

Disinfection, bacteriological testing, and flushing of potable water lines shall be performed in accordance with Section 15044.

3.20 HYDROSTATIC TESTING

Field hydrostatic testing shall be performed in accordance with Section 15044.

3.21 FIELD PAINTING AND COATING

A. Exterior surfaces of all exposed pipe and appurtenances not otherwise polyethylene tape coated with a mortar over-coat shall be field painted in accordance with Section 09910.

B. The exterior surfaces of areas of buried pipes and fittings that are not polyethylene tape coated with a mortar over-coat, such as flanges, grooved ends, or pipe ends for buttstraps or flange couplings, shall be wax-tape coated in accordance with Specification Section 1310. Wax coating shall be applied to the exterior surfaces of pipe, grooved ends of pipe, grooved and shop-dressed ends of pipe and exposed inside surfaces of painted valves and pipe fittings shall be coated in accordance with Section 15000.

3.22 BENCH MARK

REVIEW OF THESE PLANS BY THE DISTRICT'S REPRESENTATIVE IS LIMITED TO THE BENCH MARKS ONLY.

OTAY WATER DISTRICT

PROJECT NO. 1312-090037

CONTRACT NO. 1312-090037

OTAY WATER DISTRICT

PROJECT NO. 1312-090037

CONTRACT NO. 1312-090037

OTAY WATER DISTRICT

PROJECT NO. 1312-090037

CONTRACT NO. 1312-090037

OTAY WATER DISTRICT

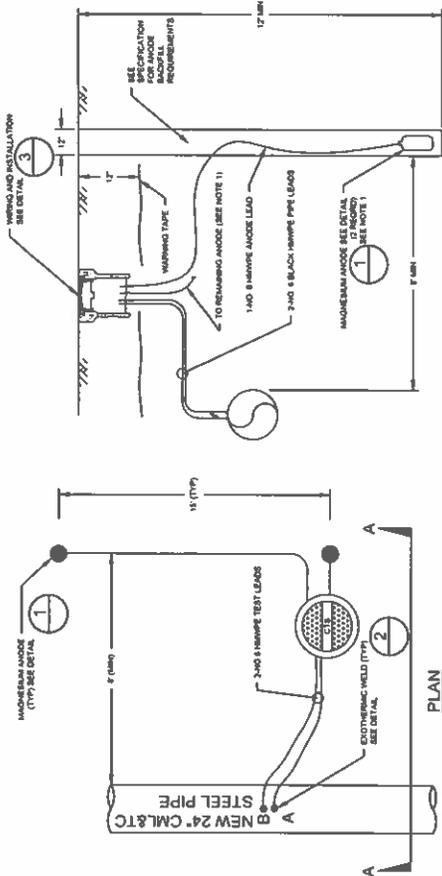
PROJECT NO. 1312-090037

CONTRACT NO. 1312-090037

OTAY WATER DISTRICT

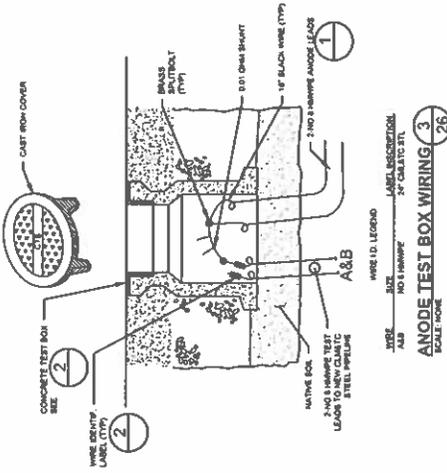
PROJECT NO. 1312-090037

CONTRACT NO. 1312-090037

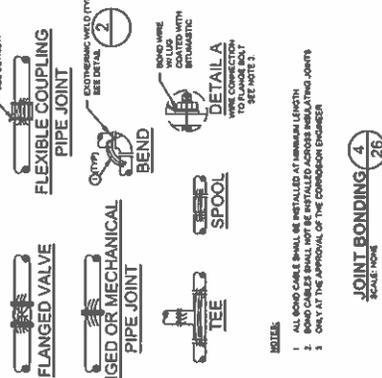


- NOTES:
1. WIRE ANODES 1 AND 2 ARE TO BE INSTALLED PARALLEL TO THE PIPE, 15 FEET APART IN ANODED HOLES 12\"/>

2-WIRE TEST STATION WITH ANODES 1 & 2
SCALE: NONE

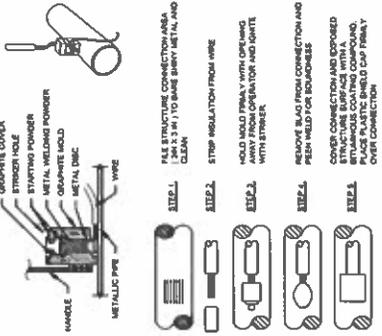


ANODE TEST BOX WIRING 3
SCALE: NONE



JOINT BONDING 4
SCALE: NONE

- NOTES:
1. ALL SPOOL CABLE SHALL BE INSTALLED TO REMAIN FULLY TIGHT.
 2. SPOOL CABLES SHALL NOT BE INSTALLED ACROSS BELLING JOINTS.
 3. ONLY AT THE APPROVAL OF THE COMMISSION ENGINEER.



EXOTHERMIC WELD 2
SCALE: NONE

- EXOTHERMIC WELD NOTES:**
1. ONE WELD SHALL BE USED FOR EACH CONNECTION.
 2. CLEAN ONLY OR GREASE CABLE WITH A FLUOROCARBON SOLVENT. REMOVE ONLY IF ENOUGH RESIDUAL FROM THE CABLE TO ALLOW THE EXOTHERMIC WELD CONNECTION TO BE MADE.
 3. REMOVE ALL COATING, OIL, GREASE, AND OXIDE FROM THE METAL STRUCTURE AT WELD LOCATIONS BY WIRE BRUSHING AND/OR USE OF FLUOROCARBON SOLVENTS. CLEAN THE METAL SURFACE OF THE CABLE AND THE METAL DISC. THE METAL DISC SHOULD BE DRY.
 4. OPEN WELD HOLES IN PLACE METAL DISC WHERE AT BOTTOM OF HOLE. FROM METAL DISC AT BOTTOM OF HOLE AND ON TOP OF METAL DISC. STARTING POWDER IS CHARGED INTO WELDING POWDER INTO HOLE AND ON TOP OF METAL DISC. STARTING POWDER IS CHARGED INTO WELDING POWDER INTO HOLE AND ON TOP OF METAL DISC. STARTING POWDER IS CHARGED INTO WELDING POWDER INTO HOLE AND ON TOP OF METAL DISC.
 5. THE LEAD WIRE IS TO BE HELD AT AN ANGLE TO THE SURFACE WHEN WELDING. ONLY ONE WIRE SHALL BE ATTACHED WITH EACH WELD. WELD SHALL BE MADE AT AN ANGLE TO THE SURFACE OF THE STRUCTURE. THE WELD SHALL BE MADE AT AN ANGLE TO THE SURFACE OF THE STRUCTURE. THE WELD SHALL BE MADE AT AN ANGLE TO THE SURFACE OF THE STRUCTURE.
 6. WELDS SHALL BE TESTED BY STRONGING THE WELD JOINT WITH TWO POLAR WANDS. THE WIRE SHALL BE HELD AT AN ANGLE TO THE SURFACE WHEN WELDING. ONLY ONE WIRE SHALL BE ATTACHED WITH EACH WELD. WELD SHALL BE MADE AT AN ANGLE TO THE SURFACE OF THE STRUCTURE. THE WELD SHALL BE MADE AT AN ANGLE TO THE SURFACE OF THE STRUCTURE.
 7. APPLY PRIMER AND ELECTROLYTIC WELD CAP TO THE WELD AND APPLY A BUTYRAMATIC COATING TO THE WELD. THE WELD SHALL BE MADE AT AN ANGLE TO THE SURFACE OF THE STRUCTURE. THE WELD SHALL BE MADE AT AN ANGLE TO THE SURFACE OF THE STRUCTURE.

SCHEDULE OF TEST STATIONS STA 10+17 TO 32+45

STATION NUMBER	NO. OF ANODES	REF DETAIL	COMMENTS
10+17.5	2-WIRE	2	2 WIRE CTS WITH ANODE
10+19	2-WIRE	2	2 WIRE CTS WITH ANODE
15+08	2-WIRE	2	2 WIRE CTS WITH ANODE
18+50	2-WIRE	2	2 WIRE CTS WITH ANODE
22+05	2-WIRE	2	2 WIRE CTS WITH ANODE
28+08	2-WIRE	2	2 WIRE CTS WITH ANODE
32+45	2-WIRE	2	2 WIRE CTS WITH ANODE

NOTE: REVIEW OF THESE PLANS BY THE COUNTY ENGINEER SHALL BE FOR CONSTRUCTION PURPOSES ONLY.

IMPORTANT NOTICE:
CH2M HILL
1-800-227-2500

ch2m

RECORD PLAN
DATE: _____
DRAWN BY: _____
CHECKED BY: _____

O.W.D. "AS-BUILT"
DATE: _____
LOCUS: _____
REVISION: _____

OTAY WATER DISTRICT
PROJECT NO. _____
SHEET NO. _____

OTAY WATER DISTRICT REVISIONS

NO.	DATE	DESCRIPTION

COUNTY APPROVED CHANGES

BENCH MARK
ELEVATION: _____
DATE: _____

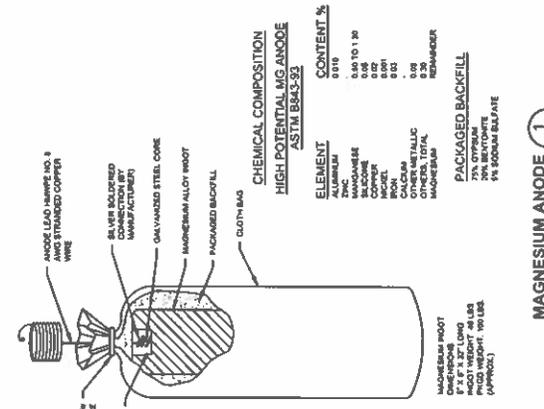
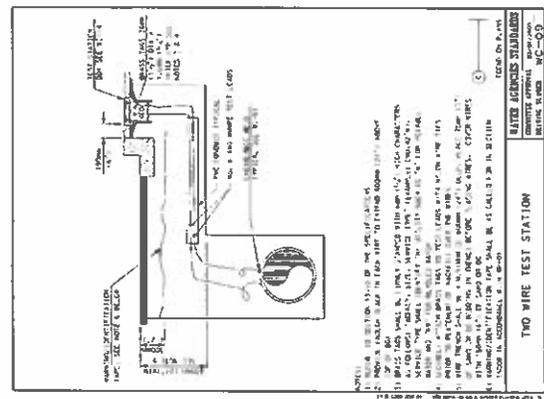
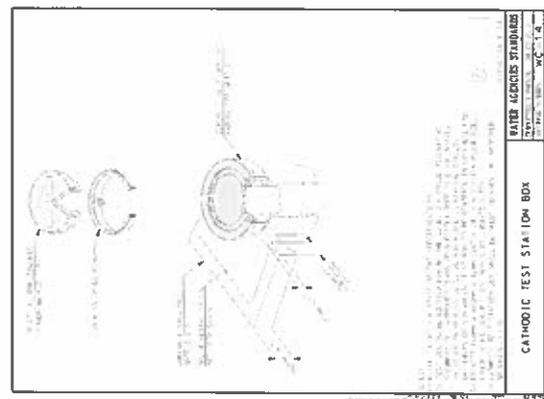
PRIVATE CONTRACT
COUNTY OF SAN DIEGO
COUNTY ENGINEER: _____

ATTACHMENT A
ENGINEER'S NAME: CH2M

NOTE: THESE PLANS ARE THE PROPERTY OF CH2M AND ARE NOT TO BE REPRODUCED OR COPIED FOR ANY PURPOSES OTHER THAN BIDDING PURPOSES ONLY.



PRIVATE CONTRACT
 COUNTY OF SAN DIEGO
 DEPARTMENT OF PUBLIC WORKS
 CATHODIC PROTECTION DETAILS FOR
ALTA ROAD & SEEMORE VIVA ROAD
 STAY BUSINES PARK & MARVINO SUBDIVISION
 COUNTY OF SAN DIEGO TRACTS 8908 & 8909
 CALIFORNIA COMMUNITY MAPS 138-1791
 PROJECT NO. 0132-090374
 PERMIT NO. DCV-22-009



CHEMICAL COMPOSITION
HIGH POTENTIAL MG ANODE
 ASTM B843-93

ELEMENT	CONTENT %
Aluminum	0.010
Magnesium	0.80 TO 1.20
MANUFACTURER'S	
COMPONENT	0.02
IRON	0.001
PHOSPHORUS	0.001
SILICON	0.001
CADMIUM	0.001
ZINC	0.001
OTHERS, TOTAL	0.03
REMANEUVER	

PACKAGED BACKFILL
 75% SILICUM
 25% SODIUM BICARBONATE
 5% SODIUM BICARBONATE

CATHODIC TEST STATION (2)
 SCALE NONE

MAGNESIUM ANODE (1)
 SCALE NONE

RECORD PLAN	O.W.D. "AS-BUILT"	OTAY WATER DISTRICT	OTAY WATER DISTRICT REVISIONS	COUNTY APPROVED CHANGES	BENCH MARK
DATE: _____ BY: _____	DATE: _____ BY: _____	PROJECT NO. _____ P. 1 OF 1 PRINTED BY: _____	NO. _____	NO. _____	REVISION: _____ DATE: _____
DATE: _____ BY: _____	DATE: _____ BY: _____	RECEIVED BY: _____ DATE: _____	NO. _____	NO. _____	REVISION: _____ DATE: _____



NOTE: REVIEW OF THESE PLANS BY THE CONTRACTOR SHALL BE FOR INFORMATION ONLY AND SHALL NOT BE CONSIDERED AN ENDORSEMENT OR GUARANTEE OF THE ACCURACY OF THE INFORMATION PROVIDED HEREON.

PRIVATE CONTRACT
COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
ALTA ROAD & BISHOP AVENUE
COUNTY OF SAN DIEGO TRACTS 8808 & 8809
CALIFORNIA COORDINATE NAD83 13N-17N

OWD PROJECT: 01133-00057A
OWD PERMIT: DEV-22-009

1.1 GENERAL
1.1.1 WORK SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AND ANY AMENDMENTS THERE TO, AS ADOPTED BY THE BOARD OF SUPERVISORS OF THE COUNTY OF SAN DIEGO.

1.2 MATERIALS
1.2.1 ALL MATERIALS SHALL BE OF THE BEST QUALITY AVAILABLE AND SHALL BE SUBJECT TO INSPECTION AND TESTING BY THE ENGINEER.

1.3 CONSTRUCTION
1.3.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

1.4 PROTECTION
1.4.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES ON THE PROJECT SITE.

1.5 UTILITIES
1.5.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND MARKING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

1.6 TESTING
1.6.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING ALL NECESSARY TESTING OF MATERIALS AND CONSTRUCTION.

1.7 SCHEDULE
1.7.1 THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE ENGINEER FOR REVIEW AND APPROVAL.

1.8 SAFETY
1.8.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL NECESSARY SAFETY MEASURES TO PROTECT THE PUBLIC AND WORKERS.

1.9 INSPECTION
1.9.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ACCESS TO ALL PARTS OF THE PROJECT FOR INSPECTION BY THE ENGINEER.

1.10 RECORDS
1.10.1 THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF ALL CONSTRUCTION ACTIVITIES AND SHALL MAKE THEM AVAILABLE FOR REVIEW BY THE ENGINEER.

1.11 TRAINING
1.11.1 ALL PERSONNEL INVOLVED IN THE CONSTRUCTION SHALL BE PROPERLY TRAINED AND CERTIFIED FOR THEIR RESPECTIVE TASKS.

1.12 COMPLIANCE
1.12.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND STANDARDS.

1.13 QUALITY CONTROL
1.13.1 THE CONTRACTOR SHALL IMPLEMENT A QUALITY CONTROL PROGRAM TO ENSURE THAT ALL WORK IS DONE IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS.

1.14 COMMUNICATION
1.14.1 THE CONTRACTOR SHALL MAINTAIN OPEN COMMUNICATION WITH THE ENGINEER AND OTHER STAKEHOLDERS THROUGHOUT THE PROJECT.

1.15 CLOSURE
1.15.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE PUBLIC AND OTHER AGENCIES OF THE PROJECT CLOSURE AND RE-OPENING.

1.16 FINAL REVIEW
1.16.1 UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT A FINAL REPORT TO THE ENGINEER FOR REVIEW AND APPROVAL.

1.17 AS-BUILT
1.17.1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS AND RECORDS TO THE ENGINEER AND THE COUNTY.

1.18 WARRANTY
1.18.1 THE CONTRACTOR SHALL WARRANT THE WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF COMPLETION.

1.19 DISPUTE RESOLUTION
1.19.1 ANY DISPUTES ARISING FROM THIS CONTRACT SHALL BE RESOLVED THROUGH MEDIATION AND, IF NECESSARY, LITIGATION.

1.20 FORCE MAJEURE
1.20.1 IN THE EVENT OF FORCE MAJEURE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER AND THE COUNTY AS SOON AS POSSIBLE.

1.21 ASSIGNMENT
1.21.1 THE CONTRACTOR SHALL NOT ASSIGN OR SUBLETT THE PROJECT WITHOUT THE WRITTEN CONSENT OF THE ENGINEER AND THE COUNTY.

1.22 ENTIRE AGREEMENT
1.22.1 THIS CONTRACT SHALL CONSTITUTE THE ENTIRE AGREEMENT BETWEEN THE PARTIES AND SHALL SUPERSEDE ALL PREVIOUS AGREEMENTS.

1.23 GOVERNING LAW
1.23.1 THIS CONTRACT SHALL BE GOVERNED BY THE LAWS OF THE STATE OF CALIFORNIA.

1.24 SIGNATURE
1.24.1 THE CONTRACTOR SHALL SIGN AND SEAL THIS CONTRACT AND RETURN IT TO THE ENGINEER FOR RECORD.

1.25 ACCEPTANCE
1.25.1 THE ENGINEER'S ACCEPTANCE OF THE WORK SHALL NOT BE CONSIDERED AN ENDORSEMENT OR GUARANTEE OF THE ACCURACY OF THE INFORMATION PROVIDED HEREON.

1.26 RELEASE
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RECORD PLAN
DATE
SCALE
PROJECT NO.
SHEET NO.
TOTAL SHEETS

OTAY WATER DISTRICT
COUNTY APPROVED CHANGES
BENCH MARK
DESCRIPTION: BENCH MARK IN STREET CORNER WILL BE MAINTAINED THROUGHOUT PROJECT.
DATE: 01/13/14
BY: [Signature]

OTAY WATER DISTRICT
COUNTY APPROVED CHANGES
BENCH MARK
DESCRIPTION: BENCH MARK IN STREET CORNER WILL BE MAINTAINED THROUGHOUT PROJECT.
DATE: 01/13/14
BY: [Signature]

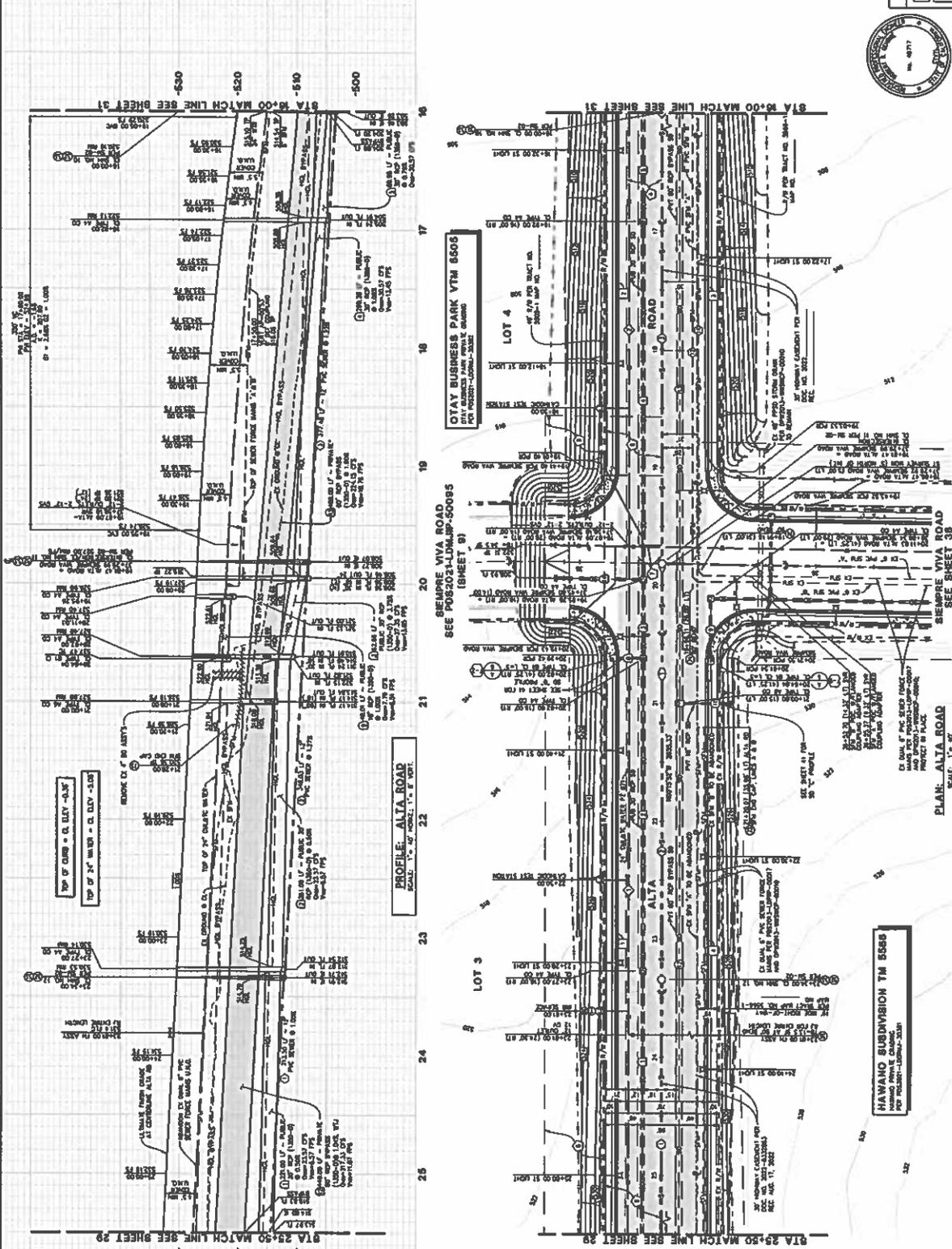
OTAY WATER DISTRICT
COUNTY APPROVED CHANGES
BENCH MARK
DESCRIPTION: BENCH MARK IN STREET CORNER WILL BE MAINTAINED THROUGHOUT PROJECT.
DATE: 01/13/14
BY: [Signature]

OTAY WATER DISTRICT
COUNTY APPROVED CHANGES
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DESCRIPTION: BENCH MARK IN STREET CORNER WILL BE MAINTAINED THROUGHOUT PROJECT.
DATE: 01/13/14
BY: [Signature]

OTAY WATER DISTRICT
COUNTY APPROVED CHANGES
BENCH MARK
DESCRIPTION: BENCH MARK IN STREET CORNER WILL BE MAINTAINED THROUGHOUT PROJECT.
DATE: 01/13/14
BY: [Signature]

OTAY WATER DISTRICT
COUNTY APPROVED CHANGES
BENCH MARK
DESCRIPTION: BENCH MARK IN STREET CORNER WILL BE MAINTAINED THROUGHOUT PROJECT.
DATE: 01/13/14
BY: [Signature]

CENTERLINE DATA	
1. ROADWAY	2. CENTERLINE
3. CURB DATA	4. SIDEWALK DATA
5. WATER DATA	6. PUBLIC STORM DRAIN DATA
7. PRIVATE STORM DRAIN DATA	8. SEWER GRAVITY MAIN DATA
9. SEWER FORCE MAIN DATA	10. EXISTING EASEMENT NOTES
11. CONSTRUCTION NOTES	12. CONSTRUCTION NOTES



OTAY WATER DISTRICT REVISIONS	
NO.	DESCRIPTION

PRIVATE CONTRACT

COUNTY OF SAN DIEGO
 LOCATION: 10000 S. MOUNTAIN VIEW ROAD, SAN DIEGO, CA 92108
 PROJECT: 01132-000574
 PERMIT: DEV-22-009

BENCH MARK

DESCRIPTION: BENCH MARK AT STREET CORNER, 10000 S. MOUNTAIN VIEW ROAD, SAN DIEGO, CA 92108
 ELEVATION: 1000.00
 DATE: 05/05/07

COUNTY APPROVED CHANGES

NO. DESCRIPTION

OTAY WATER DISTRICT

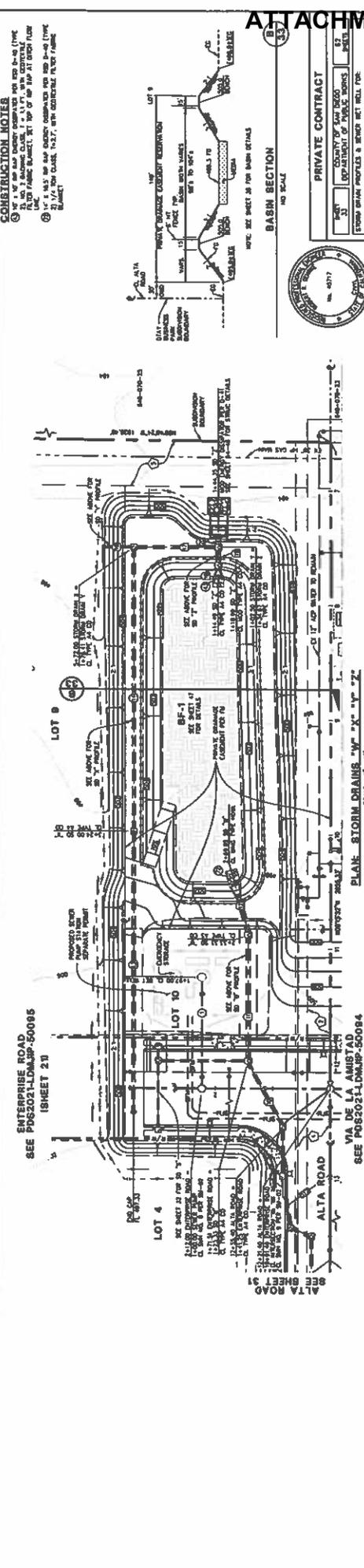
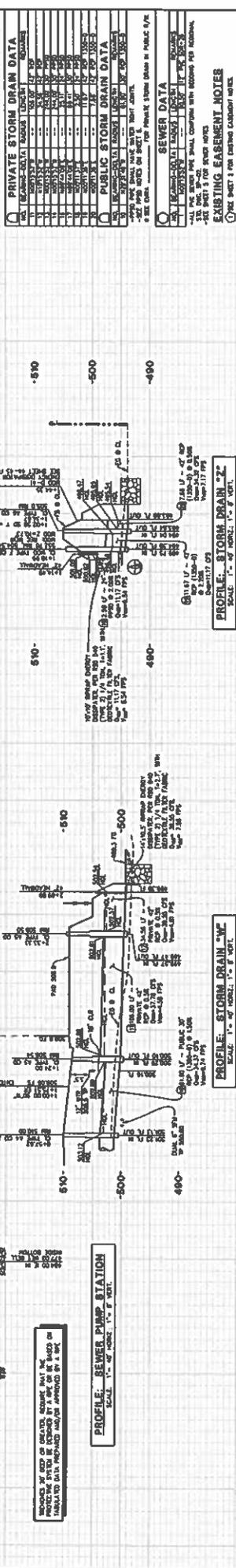
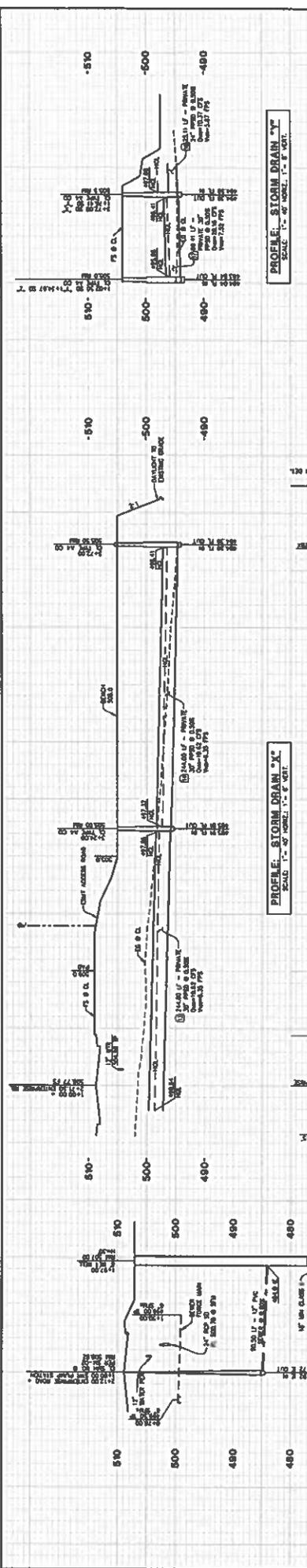
PROJECT NO. 01132-000574
 SHEET NO. 10 OF 10
 DATE: 05/05/07

O.M.D. "AS-BUILT"

DATE: 05/05/07
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

RECORD PLAN

DATE: 05/05/07
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]



PRIVATE CONTRACT
COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
ALTA ROAD & BISHOP VIA ROAD
COUNTY OF SAN DIEGO TRACTS 8008 & 8009
CALIFORNIA COORDINATE NORTH 13N-1791

CONSTRUCTION NOTES
1. ALL PIPE SHALL BE 12" DIA. UNLESS OTHERWISE NOTED.
2. ALL MANHOLES SHALL BE 24" DIA. UNLESS OTHERWISE NOTED.
3. ALL STRUCTURES SHALL BE CONCRETE UNLESS OTHERWISE NOTED.
4. ALL STRUCTURES SHALL BE FINISHED WITH 1/2" SAND AND 1/4" GRAVEL UNLESS OTHERWISE NOTED.
5. ALL STRUCTURES SHALL BE FINISHED WITH 1/2" SAND AND 1/4" GRAVEL UNLESS OTHERWISE NOTED.
6. ALL STRUCTURES SHALL BE FINISHED WITH 1/2" SAND AND 1/4" GRAVEL UNLESS OTHERWISE NOTED.

SEWER DATA
ALL THE SEWER PIPE SHALL COMPLY WITH STANDARDS FOR SEWER PIPE.
SEE SHEET 'Y' FOR SEWER NOTES.

EXISTING EASEMENT NOTES
1. SEE SHEET 'X' FOR EXISTING EASEMENT NOTES.

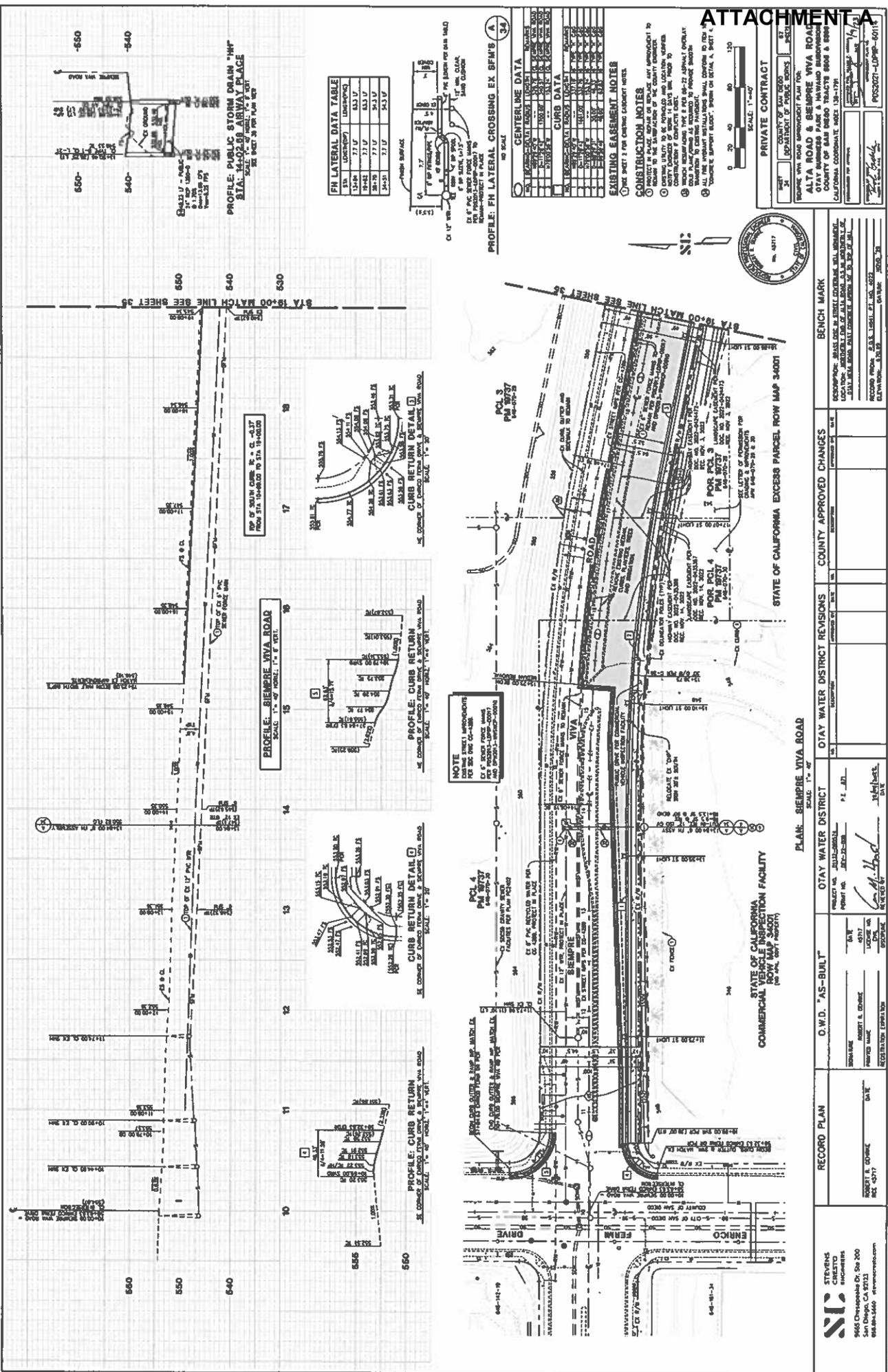
STEVENS CRESTO
9465 Chippewa Dr., Ste 200
San Diego, CA 92123
619-444-0000

RECORD PLAN
DATE: _____
BY: _____

COUNTY APPROVED CHANGES
DATE: _____
BY: _____

BENCH MARK
DESCRIPTION: BENCH MARK IN STREET CORNER, SW CORNER OF LOT 10, ALTA ROAD, SAN DIEGO, CALIFORNIA
ELEVATION: 480.00
RECORD FROM: S.D.S. 15841, 27, 101, 502
DATE: 10/20/00

SCALE: 1" = 40'



FN LATERAL DATA TABLE

STA	LOCATION	WIDTH	DEPTH
13+00	77.0	53.0	53.0
14+00	77.0	53.0	53.0
15+00	77.0	53.0	53.0
16+00	77.0	53.0	53.0
17+00	77.0	53.0	53.0
18+00	77.0	53.0	53.0

CENTERLINE DATA

STA	LOCATION	WIDTH	DEPTH
13+00	77.0	53.0	53.0
14+00	77.0	53.0	53.0
15+00	77.0	53.0	53.0
16+00	77.0	53.0	53.0
17+00	77.0	53.0	53.0
18+00	77.0	53.0	53.0

CONSTRUCTION NOTES

1. VERIFY ALL EXISTING CONDITIONS AND LOCATIONS.
2. VERIFY ALL EXISTING UTILITIES AND LOCATIONS.
3. VERIFY ALL EXISTING ELEVATIONS AND LOCATIONS.
4. VERIFY ALL EXISTING WIDTHS AND DEPTHS.
5. VERIFY ALL EXISTING MATERIALS AND METHODS.
6. VERIFY ALL EXISTING PERMITS AND APPROVALS.
7. VERIFY ALL EXISTING RECORDS AND DRAWINGS.
8. VERIFY ALL EXISTING SURVEY DATA AND POINTS.
9. VERIFY ALL EXISTING ADJACENT PROPERTIES AND RIGHTS.
10. VERIFY ALL EXISTING ENVIRONMENTAL AND HISTORICAL CONDITIONS.

PRIVATE CONTRACT

STATE OF CALIFORNIA
COUNTY OF SAN DIEGO
PROJECT NO. 13-1791
CALIFORNIA COORDINATE NO. 13-1791

DATE: 05/11/11
BY: [Signature]
TITLE: [Title]

OWD PROJECT: 01132-000274
OWD PERMIT: DEV-22-009



BENCH MARK

DESCRIPTION: BENCH MARK AT STREET CORNER, 1011 BROADWAY, SAN DIEGO, CALIFORNIA
ELEVATION: 540.00
DATE: 05/11/11

COUNTY APPROVED CHANGES

DATE: 05/11/11
BY: [Signature]

OTAY WATER DISTRICT REVISIONS

DATE: 05/11/11
BY: [Signature]

OTAY WATER DISTRICT

PROJECT NO. 13-1791
DATE: 05/11/11
BY: [Signature]

D.W.D. "AS-BUILT"

DATE: 05/11/11
BY: [Signature]

RECORD PLAN

DATE: 05/11/11
BY: [Signature]

STATE OF CALIFORNIA COMMERCIAL VEHICLE INSPECTION FACILITY

DATE: 05/11/11
BY: [Signature]

STEVENS CRESTO ENGINEERS
5655 Chesapeake Dr., Ste 200
San Diego, CA 92123
619-594-6666
stevenscresto.com

CENTERLINE DATA

STATION	CHORD BEARING	CHORD DISTANCE	CHORD AREA
1+00	135.00	135.00	135.00
2+00	135.00	135.00	135.00
3+00	135.00	135.00	135.00
4+00	135.00	135.00	135.00
5+00	135.00	135.00	135.00
6+00	135.00	135.00	135.00
7+00	135.00	135.00	135.00
8+00	135.00	135.00	135.00
9+00	135.00	135.00	135.00
10+00	135.00	135.00	135.00

CURB DATA

STATION	CHORD BEARING	CHORD DISTANCE	CHORD AREA
1+00	135.00	135.00	135.00
2+00	135.00	135.00	135.00
3+00	135.00	135.00	135.00
4+00	135.00	135.00	135.00
5+00	135.00	135.00	135.00
6+00	135.00	135.00	135.00
7+00	135.00	135.00	135.00
8+00	135.00	135.00	135.00
9+00	135.00	135.00	135.00
10+00	135.00	135.00	135.00

WATER DATA

STATION	CHORD BEARING	CHORD DISTANCE	CHORD AREA
1+00	135.00	135.00	135.00
2+00	135.00	135.00	135.00
3+00	135.00	135.00	135.00
4+00	135.00	135.00	135.00
5+00	135.00	135.00	135.00
6+00	135.00	135.00	135.00
7+00	135.00	135.00	135.00
8+00	135.00	135.00	135.00
9+00	135.00	135.00	135.00
10+00	135.00	135.00	135.00

PUBLIC STORM DRAIN DATA

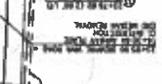
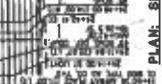
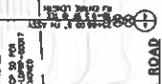
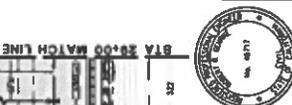
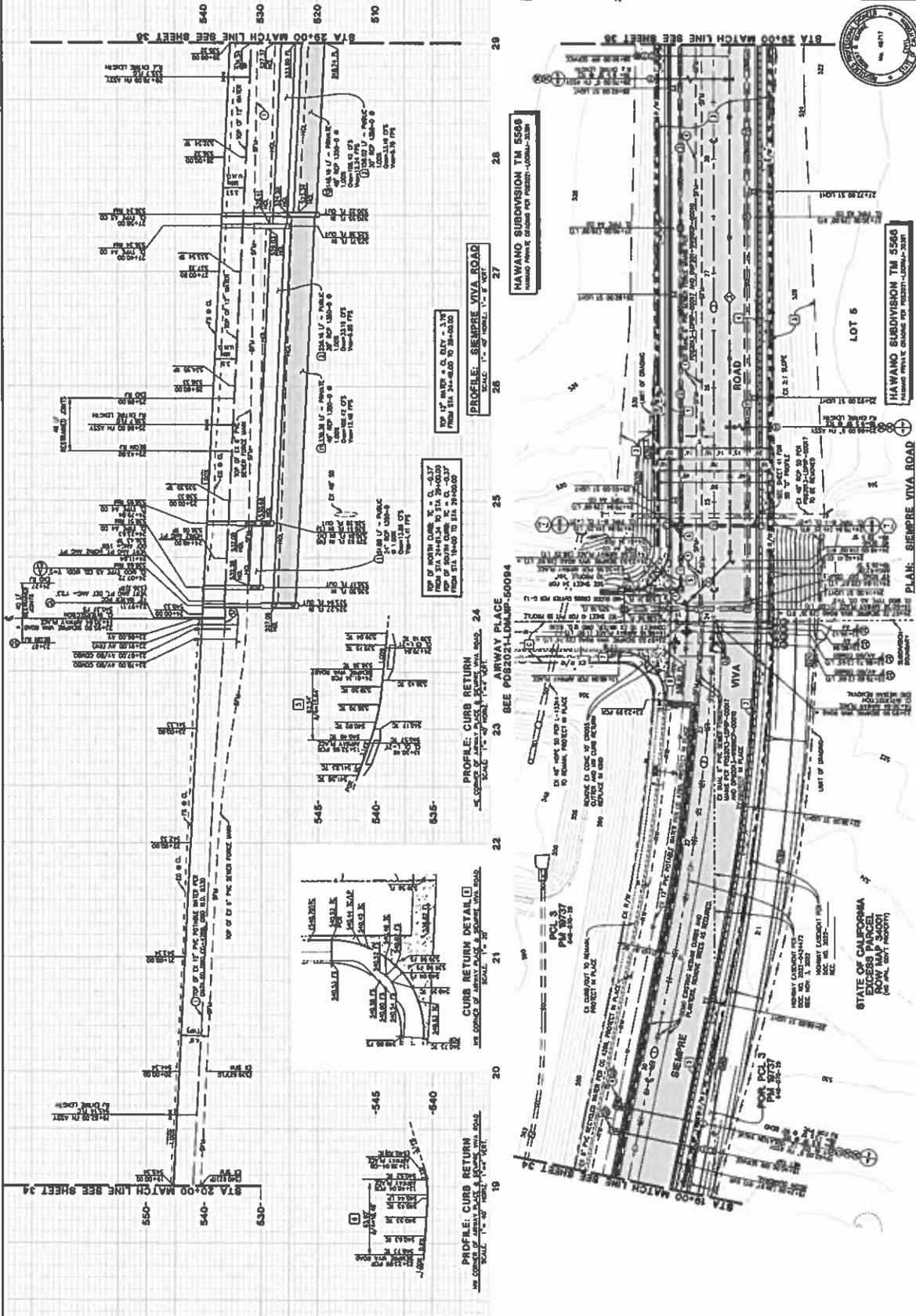
STATION	CHORD BEARING	CHORD DISTANCE	CHORD AREA
1+00	135.00	135.00	135.00
2+00	135.00	135.00	135.00
3+00	135.00	135.00	135.00
4+00	135.00	135.00	135.00
5+00	135.00	135.00	135.00
6+00	135.00	135.00	135.00
7+00	135.00	135.00	135.00
8+00	135.00	135.00	135.00
9+00	135.00	135.00	135.00
10+00	135.00	135.00	135.00

PRIVATE STORM DRAIN DATA

STATION	CHORD BEARING	CHORD DISTANCE	CHORD AREA
1+00	135.00	135.00	135.00
2+00	135.00	135.00	135.00
3+00	135.00	135.00	135.00
4+00	135.00	135.00	135.00
5+00	135.00	135.00	135.00
6+00	135.00	135.00	135.00
7+00	135.00	135.00	135.00
8+00	135.00	135.00	135.00
9+00	135.00	135.00	135.00
10+00	135.00	135.00	135.00

SEE DATA FOR PRIVATE STORM DRAIN IN PUBLIC R/W

- EXISTING EASEMENT NOTES**
- 1. SEE SHEET 7 FOR EXISTING EASEMENT NOTES
 - 2. VERIFY ALL EASEMENTS AND RECORDS ARE CURRENT AND ACCURATE
 - 3. VERIFY ALL EASEMENTS ARE PROPERLY LOCATED AND DIMENSIONED
 - 4. VERIFY ALL EASEMENTS ARE PROPERLY DIMENSIONED AND LOCATED
 - 5. VERIFY ALL EASEMENTS ARE PROPERLY DIMENSIONED AND LOCATED
 - 6. VERIFY ALL EASEMENTS ARE PROPERLY DIMENSIONED AND LOCATED
 - 7. VERIFY ALL EASEMENTS ARE PROPERLY DIMENSIONED AND LOCATED
 - 8. VERIFY ALL EASEMENTS ARE PROPERLY DIMENSIONED AND LOCATED
 - 9. VERIFY ALL EASEMENTS ARE PROPERLY DIMENSIONED AND LOCATED
 - 10. VERIFY ALL EASEMENTS ARE PROPERLY DIMENSIONED AND LOCATED
- CONSTRUCTION NOTES**
- 1. VERIFY ALL EASEMENTS AND RECORDS ARE CURRENT AND ACCURATE
 - 2. VERIFY ALL EASEMENTS ARE PROPERLY LOCATED AND DIMENSIONED
 - 3. VERIFY ALL EASEMENTS ARE PROPERLY DIMENSIONED AND LOCATED
 - 4. VERIFY ALL EASEMENTS ARE PROPERLY DIMENSIONED AND LOCATED
 - 5. VERIFY ALL EASEMENTS ARE PROPERLY DIMENSIONED AND LOCATED
 - 6. VERIFY ALL EASEMENTS ARE PROPERLY DIMENSIONED AND LOCATED
 - 7. VERIFY ALL EASEMENTS ARE PROPERLY DIMENSIONED AND LOCATED
 - 8. VERIFY ALL EASEMENTS ARE PROPERLY DIMENSIONED AND LOCATED
 - 9. VERIFY ALL EASEMENTS ARE PROPERLY DIMENSIONED AND LOCATED
 - 10. VERIFY ALL EASEMENTS ARE PROPERLY DIMENSIONED AND LOCATED



PRIVATE CONTRACT

DATE: _____

PROJECT NO.: _____

SCALE: 1" = 4'

PROJECT: _____

DATE: _____

PROJECT: _____

DATE: _____

BEVICH MARK

PROJECT NO.: _____

DATE: _____

PROJECT: _____

DATE: _____

COUNTY APPROVED CHANGES

NO.	DESCRIPTION	DATE	BY

OTAY WATER DISTRICT REVISIONS

NO.	DESCRIPTION	DATE	BY

OTAY WATER DISTRICT

PROJECT NO.: _____

DATE: _____

PROJECT: _____

DATE: _____

O.W.D. "AS-BUILT"

PROJECT NO.: _____

DATE: _____

PROJECT: _____

DATE: _____

RECORD PLAN

PROJECT NO.: _____

DATE: _____

PROJECT: _____

DATE: _____

STEVENS CRESCO INCORPORATED

9465 Chesapeake Dr., Ste. 200
San Diego, CA 92123
Tel: (619) 444-1111

CENTERLINE DATA

STATION	CHORD BEARING	CHORD DISTANCE	CHORD AREA	CHORD PERIMETER
1+00	N 89° 59' 59" W	100.00	0.00	100.00
2+00	N 89° 59' 59" W	100.00	0.00	100.00
3+00	N 89° 59' 59" W	100.00	0.00	100.00
4+00	N 89° 59' 59" W	100.00	0.00	100.00
5+00	N 89° 59' 59" W	100.00	0.00	100.00
6+00	N 89° 59' 59" W	100.00	0.00	100.00
7+00	N 89° 59' 59" W	100.00	0.00	100.00
8+00	N 89° 59' 59" W	100.00	0.00	100.00
9+00	N 89° 59' 59" W	100.00	0.00	100.00
10+00	N 89° 59' 59" W	100.00	0.00	100.00

CURB DATA

STATION	CHORD BEARING	CHORD DISTANCE	CHORD AREA	CHORD PERIMETER
1+00	N 89° 59' 59" W	100.00	0.00	100.00
2+00	N 89° 59' 59" W	100.00	0.00	100.00
3+00	N 89° 59' 59" W	100.00	0.00	100.00
4+00	N 89° 59' 59" W	100.00	0.00	100.00
5+00	N 89° 59' 59" W	100.00	0.00	100.00
6+00	N 89° 59' 59" W	100.00	0.00	100.00
7+00	N 89° 59' 59" W	100.00	0.00	100.00
8+00	N 89° 59' 59" W	100.00	0.00	100.00
9+00	N 89° 59' 59" W	100.00	0.00	100.00
10+00	N 89° 59' 59" W	100.00	0.00	100.00

WATER DATA

STATION	CHORD BEARING	CHORD DISTANCE	CHORD AREA	CHORD PERIMETER
1+00	N 89° 59' 59" W	100.00	0.00	100.00
2+00	N 89° 59' 59" W	100.00	0.00	100.00
3+00	N 89° 59' 59" W	100.00	0.00	100.00
4+00	N 89° 59' 59" W	100.00	0.00	100.00
5+00	N 89° 59' 59" W	100.00	0.00	100.00
6+00	N 89° 59' 59" W	100.00	0.00	100.00
7+00	N 89° 59' 59" W	100.00	0.00	100.00
8+00	N 89° 59' 59" W	100.00	0.00	100.00
9+00	N 89° 59' 59" W	100.00	0.00	100.00
10+00	N 89° 59' 59" W	100.00	0.00	100.00

PUBLIC STORM DRAIN DATA

STATION	CHORD BEARING	CHORD DISTANCE	CHORD AREA	CHORD PERIMETER
1+00	N 89° 59' 59" W	100.00	0.00	100.00
2+00	N 89° 59' 59" W	100.00	0.00	100.00
3+00	N 89° 59' 59" W	100.00	0.00	100.00
4+00	N 89° 59' 59" W	100.00	0.00	100.00
5+00	N 89° 59' 59" W	100.00	0.00	100.00
6+00	N 89° 59' 59" W	100.00	0.00	100.00
7+00	N 89° 59' 59" W	100.00	0.00	100.00
8+00	N 89° 59' 59" W	100.00	0.00	100.00
9+00	N 89° 59' 59" W	100.00	0.00	100.00
10+00	N 89° 59' 59" W	100.00	0.00	100.00

PRIVATE STORM DRAIN DATA

STATION	CHORD BEARING	CHORD DISTANCE	CHORD AREA	CHORD PERIMETER
1+00	N 89° 59' 59" W	100.00	0.00	100.00
2+00	N 89° 59' 59" W	100.00	0.00	100.00
3+00	N 89° 59' 59" W	100.00	0.00	100.00
4+00	N 89° 59' 59" W	100.00	0.00	100.00
5+00	N 89° 59' 59" W	100.00	0.00	100.00
6+00	N 89° 59' 59" W	100.00	0.00	100.00
7+00	N 89° 59' 59" W	100.00	0.00	100.00
8+00	N 89° 59' 59" W	100.00	0.00	100.00
9+00	N 89° 59' 59" W	100.00	0.00	100.00
10+00	N 89° 59' 59" W	100.00	0.00	100.00

SEWER DATA

STATION	CHORD BEARING	CHORD DISTANCE	CHORD AREA	CHORD PERIMETER
1+00	N 89° 59' 59" W	100.00	0.00	100.00
2+00	N 89° 59' 59" W	100.00	0.00	100.00
3+00	N 89° 59' 59" W	100.00	0.00	100.00
4+00	N 89° 59' 59" W	100.00	0.00	100.00
5+00	N 89° 59' 59" W	100.00	0.00	100.00
6+00	N 89° 59' 59" W	100.00	0.00	100.00
7+00	N 89° 59' 59" W	100.00	0.00	100.00
8+00	N 89° 59' 59" W	100.00	0.00	100.00
9+00	N 89° 59' 59" W	100.00	0.00	100.00
10+00	N 89° 59' 59" W	100.00	0.00	100.00

SEWER FORCE MAIN DATA

STATION	CHORD BEARING	CHORD DISTANCE	CHORD AREA	CHORD PERIMETER
1+00	N 89° 59' 59" W	100.00	0.00	100.00
2+00	N 89° 59' 59" W	100.00	0.00	100.00
3+00	N 89° 59' 59" W	100.00	0.00	100.00
4+00	N 89° 59' 59" W	100.00	0.00	100.00
5+00	N 89° 59' 59" W	100.00	0.00	100.00
6+00	N 89° 59' 59" W	100.00	0.00	100.00
7+00	N 89° 59' 59" W	100.00	0.00	100.00
8+00	N 89° 59' 59" W	100.00	0.00	100.00
9+00	N 89° 59' 59" W	100.00	0.00	100.00
10+00	N 89° 59' 59" W	100.00	0.00	100.00

CONSTRUCTION NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING UTILITIES AND STRUCTURES PRIOR TO CONSTRUCTION.
2. ALL NEW UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY ENGINEER'S SPECIFICATIONS AND THE CALIFORNIA PUBLIC UTILITIES CODE.
3. ALL UTILITIES SHALL BE PROTECTED AND SUPPORTED THROUGHOUT CONSTRUCTION.
4. ALL UTILITIES SHALL BE REINSTALLED TO ORIGINAL OR BETTER CONDITIONS.
5. ALL UTILITIES SHALL BE TESTED AND APPROVED BY THE CITY ENGINEER PRIOR TO FINAL ACCEPTANCE.
6. ALL UTILITIES SHALL BE MAINTAINED OPEN TO THE PUBLIC THROUGHOUT CONSTRUCTION.
7. ALL UTILITIES SHALL BE PROTECTED AND SUPPORTED THROUGHOUT CONSTRUCTION.
8. ALL UTILITIES SHALL BE REINSTALLED TO ORIGINAL OR BETTER CONDITIONS.
9. ALL UTILITIES SHALL BE TESTED AND APPROVED BY THE CITY ENGINEER PRIOR TO FINAL ACCEPTANCE.
10. ALL UTILITIES SHALL BE MAINTAINED OPEN TO THE PUBLIC THROUGHOUT CONSTRUCTION.

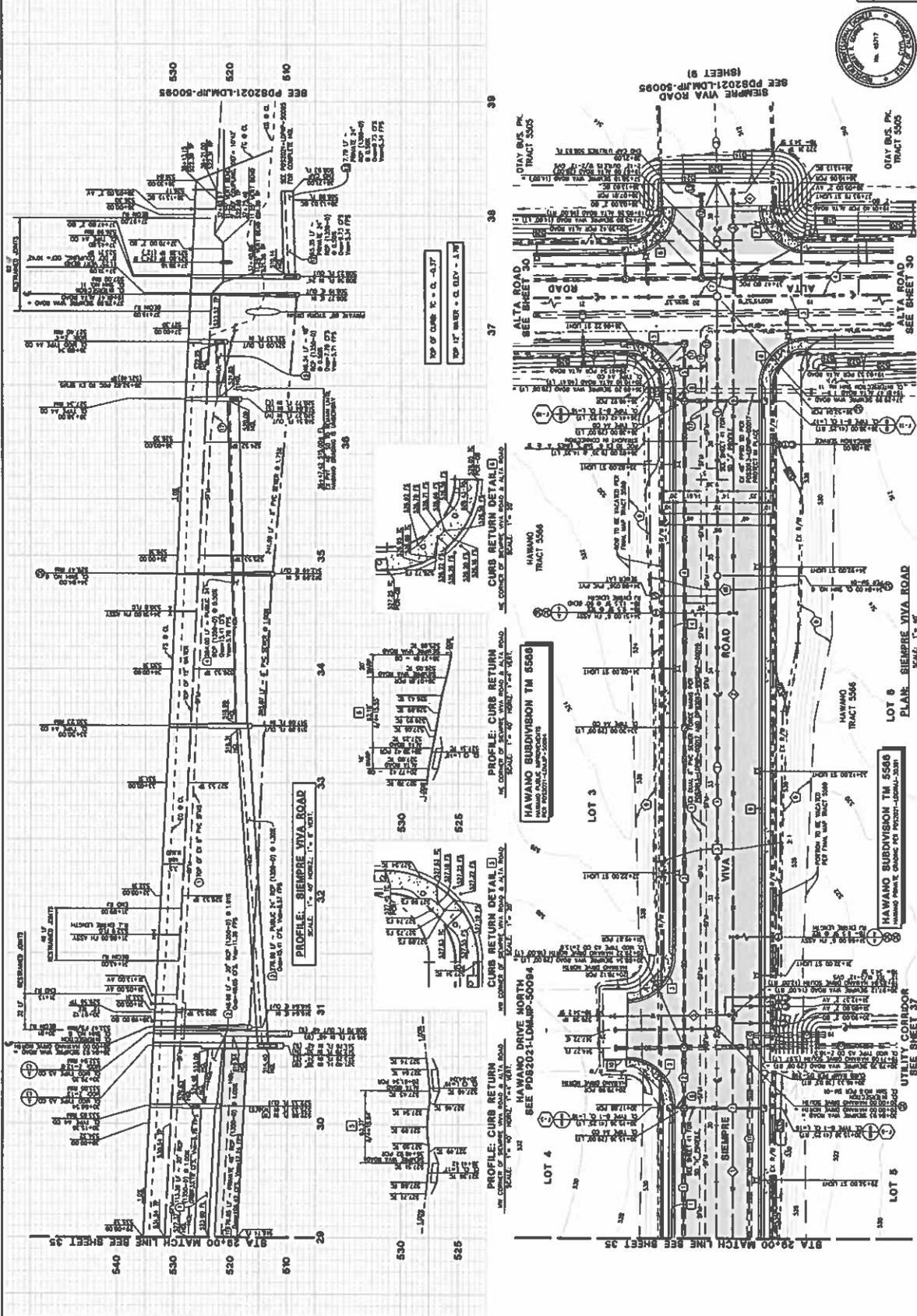
PRIVATE CONTRACT

THIS CONTRACT IS MADE THIS 15th DAY OF MAY, 2015, BETWEEN THE COUNTY OF SAN DIEGO, CALIFORNIA, and STEVENS CHESTO ENGINEERS.

PROJECT: HAWAIIAN SUBDIVISION TM 5566
 COUNTY OF SAN DIEGO TRACTS 5566 & 5568
 CALIFORNIA CONTRACT NO. 15-1791

DATE: 05/15/15
 COUNTY OF SAN DIEGO: [Signature]
 STEVENS CHESTO ENGINEERS: [Signature]

PROJECT NO.: 15-1791
 COUNTY OF SAN DIEGO: [Signature]
 STEVENS CHESTO ENGINEERS: [Signature]



RECORD PLAN

PROJECT NO.: 15-1791
 COUNTY OF SAN DIEGO: [Signature]
 STEVENS CHESTO ENGINEERS: [Signature]

OTAY WATER DISTRICT

PROJECT NO.: 15-1791
 COUNTY OF SAN DIEGO: [Signature]
 STEVENS CHESTO ENGINEERS: [Signature]

OTAY WATER DISTRICT REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

COUNTY APPROVED CHANGES

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

STEVENS CHESTO ENGINEERS
 5645 Chatsworth Dr., Ste. 200
 San Diego, CA 92123
 Phone: (619) 444-1111
 Fax: (619) 444-1112
 Website: www.stevenschesto.com

CONSTRUCTION CENTERLINE DATA

1. ROADWAY CENTERLINE	2. ROADWAY RIGHT-OF-WAY	3. ROADWAY LEFT-OF-WAY	4. ROADWAY CENTERLINE	5. ROADWAY RIGHT-OF-WAY	6. ROADWAY LEFT-OF-WAY
7. ROADWAY CENTERLINE	8. ROADWAY RIGHT-OF-WAY	9. ROADWAY LEFT-OF-WAY	10. ROADWAY CENTERLINE	11. ROADWAY RIGHT-OF-WAY	12. ROADWAY LEFT-OF-WAY

WATER DATA

1. WATER MAIN CENTERLINE	2. WATER MAIN RIGHT-OF-WAY	3. WATER MAIN LEFT-OF-WAY	4. WATER MAIN CENTERLINE	5. WATER MAIN RIGHT-OF-WAY	6. WATER MAIN LEFT-OF-WAY
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PRIVATE STORM DRAIN DATA

1. PRIVATE STORM DRAIN CENTERLINE	2. PRIVATE STORM DRAIN RIGHT-OF-WAY	3. PRIVATE STORM DRAIN LEFT-OF-WAY	4. PRIVATE STORM DRAIN CENTERLINE	5. PRIVATE STORM DRAIN RIGHT-OF-WAY	6. PRIVATE STORM DRAIN LEFT-OF-WAY
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PUBLIC STORM DRAIN DATA

1. PUBLIC STORM DRAIN CENTERLINE	2. PUBLIC STORM DRAIN RIGHT-OF-WAY	3. PUBLIC STORM DRAIN LEFT-OF-WAY	4. PUBLIC STORM DRAIN CENTERLINE	5. PUBLIC STORM DRAIN RIGHT-OF-WAY	6. PUBLIC STORM DRAIN LEFT-OF-WAY
----------------------------------	------------------------------------	-----------------------------------	----------------------------------	------------------------------------	-----------------------------------

SEWER DATA

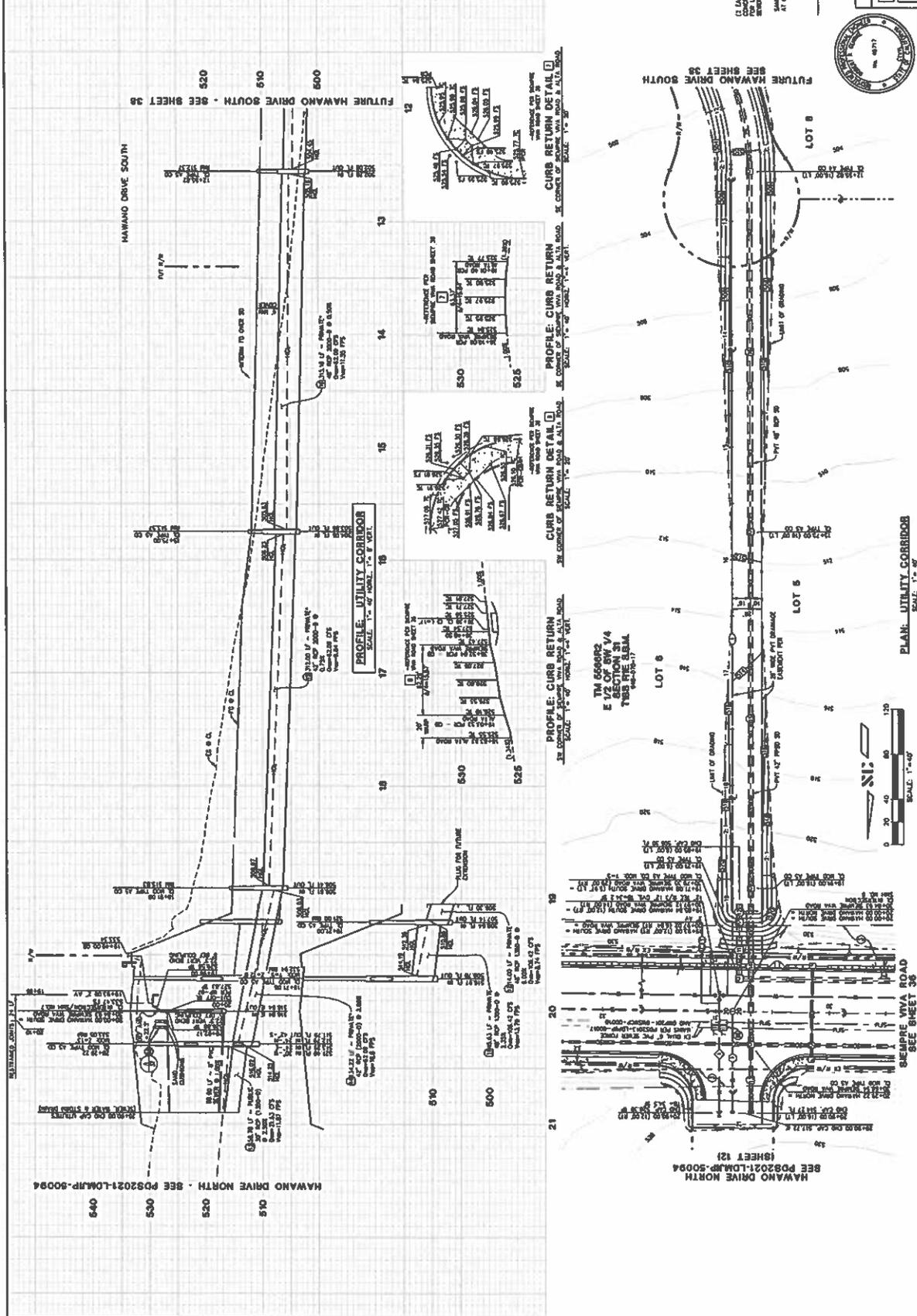
1. SEWER CENTERLINE	2. SEWER RIGHT-OF-WAY	3. SEWER LEFT-OF-WAY	4. SEWER CENTERLINE	5. SEWER RIGHT-OF-WAY	6. SEWER LEFT-OF-WAY
---------------------	-----------------------	----------------------	---------------------	-----------------------	----------------------

EXISTING EASEMENT NOTES

1. SEE SHEET 1 FOR EXISTING EASEMENT NOTES

CONSTRUCTION NOTES

1. SEE SHEET 1 FOR CONSTRUCTION NOTES



PRIVATE CONTRACT

UTILITY CORRIDOR AGREEMENT FOR THE
ALTA ROAD & SEMPERE VIVA ROAD
 OTAY WATER DISTRICT & OTAY WATER DISTRICT
 COUNTY OF SAN DIEGO TRACTS 8808 & 8809
 CALIFORNIA CORNER COORDINATES 138-1791

DATE: _____
 COUNTY OF SAN DIEGO: _____
 PROJECT: PD2021-LDMP-00111

RECORD PLAN

O.W.D. "AS-BUILT"

PROJECT NO. _____
 SHEET NO. _____
 DATE: _____
 LICENSE NO. _____
 REGISTERED PROFESSIONAL ENGINEER

OTAY WATER DISTRICT

PROJECT NO. _____
 SHEET NO. _____
 DATE: _____
 LICENSE NO. _____
 REGISTERED PROFESSIONAL ENGINEER

OTAY WATER DISTRICT REVISIONS

NO.	DESCRIPTION	DATE	BY

COUNTY APPROVED CHANGES

NO.	DESCRIPTION	DATE	BY

SEMPERE VIVA ROAD

SEE SHEET 38

SCALE: 1"=40'

STEVENS CRESTO ENGINEERS

5655 Chesapeake Dr., Ste 200
 San Diego, CA 92123
 Tel: 619-594-1100
 www.stevenscrestoenr.com

ROBERT E. GEDRICK
 REG. CIVIL ENGINEER

DATE: _____

CENTERLINE DATA

STATION	CHORD BEARING	CHORD DIST.	ARC BEARING	ARC DIST.	CHORD BEARING	CHORD DIST.	ARC BEARING	ARC DIST.
0+00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00
1+00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00
2+00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00
3+00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00
4+00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00
5+00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00
6+00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00
7+00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00
8+00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00
9+00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00
10+00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00	N 89° 59' 54" W	100.00	179° 59' 48"	100.00

PRIVATE STORM DRAIN DATA

NO.	START STA.	END STA.	LENGTH	DIAMETER	INVERT	GRADE	REMARKS
1	0+00	10+00	10.00	18"	4.80	4.80	EXISTING
2	10+00	20+00	10.00	18"	4.80	4.80	EXISTING
3	20+00	30+00	10.00	18"	4.80	4.80	EXISTING
4	30+00	40+00	10.00	18"	4.80	4.80	EXISTING
5	40+00	50+00	10.00	18"	4.80	4.80	EXISTING
6	50+00	60+00	10.00	18"	4.80	4.80	EXISTING
7	60+00	70+00	10.00	18"	4.80	4.80	EXISTING
8	70+00	80+00	10.00	18"	4.80	4.80	EXISTING
9	80+00	90+00	10.00	18"	4.80	4.80	EXISTING
10	90+00	100+00	10.00	18"	4.80	4.80	EXISTING

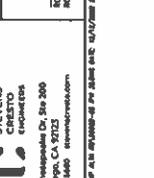
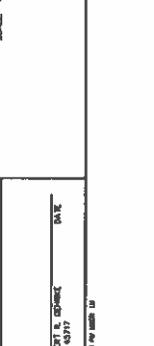
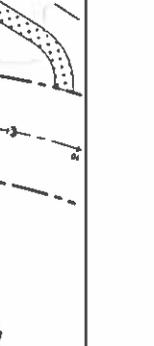
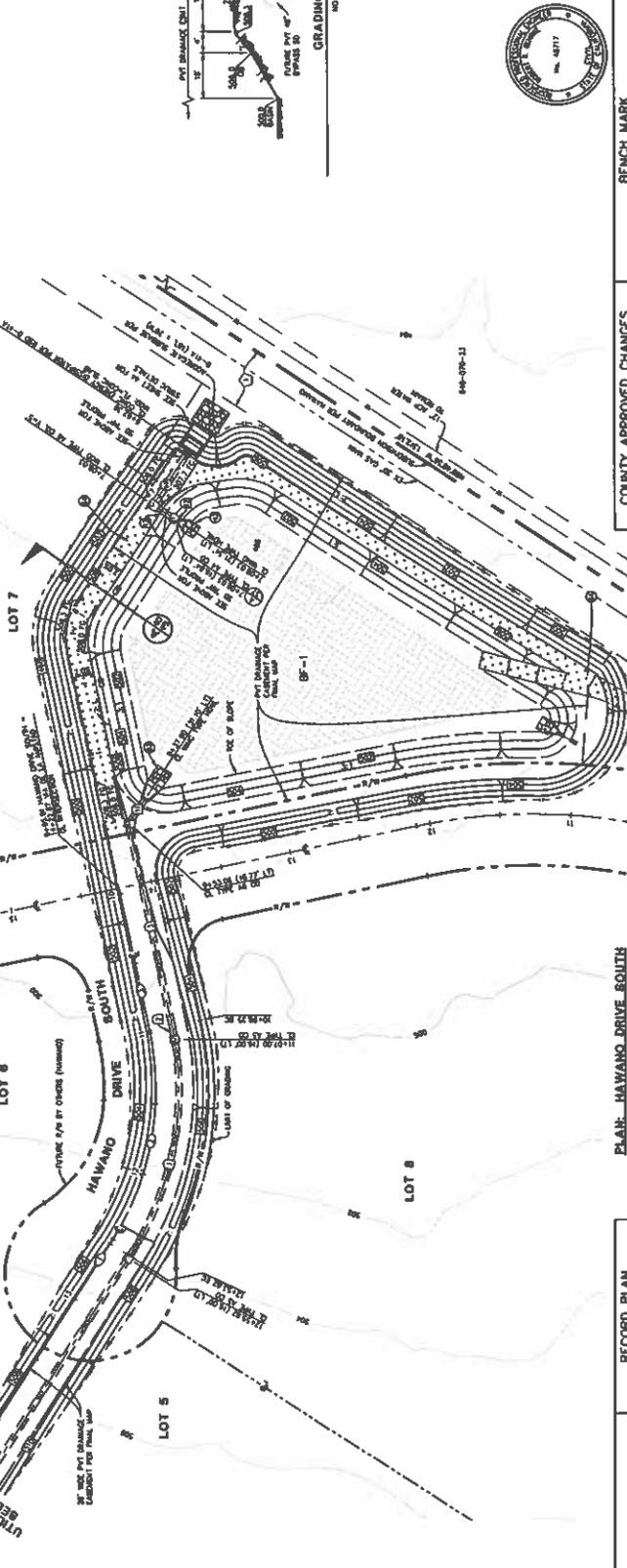
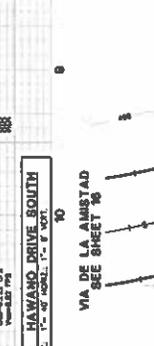
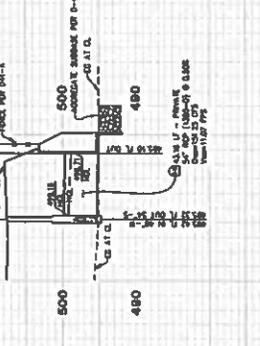
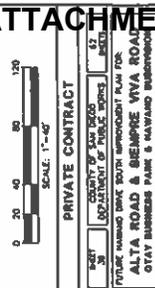
- EXISTING EASEMENT NOTES**
- SEE SHEET 1 FOR EXISTING EASEMENT NOTES.
 - SEE SHEET 2 FOR EXISTING EASEMENT NOTES.
 - SEE SHEET 3 FOR EXISTING EASEMENT NOTES.
 - SEE SHEET 4 FOR EXISTING EASEMENT NOTES.
 - SEE SHEET 5 FOR EXISTING EASEMENT NOTES.
 - SEE SHEET 6 FOR EXISTING EASEMENT NOTES.
 - SEE SHEET 7 FOR EXISTING EASEMENT NOTES.
 - SEE SHEET 8 FOR EXISTING EASEMENT NOTES.
 - SEE SHEET 9 FOR EXISTING EASEMENT NOTES.
 - SEE SHEET 10 FOR EXISTING EASEMENT NOTES.

- CONSTRUCTION NOTES**
- USE 18" DIA. PIPE FOR ALL STORM DRAINAGE.
 - USE 18" DIA. MANHOLE RINGS FOR ALL STORM DRAINAGE.
 - USE 18" DIA. MANHOLE RINGS FOR ALL STORM DRAINAGE.
 - USE 18" DIA. MANHOLE RINGS FOR ALL STORM DRAINAGE.
 - USE 18" DIA. MANHOLE RINGS FOR ALL STORM DRAINAGE.
 - USE 18" DIA. MANHOLE RINGS FOR ALL STORM DRAINAGE.
 - USE 18" DIA. MANHOLE RINGS FOR ALL STORM DRAINAGE.
 - USE 18" DIA. MANHOLE RINGS FOR ALL STORM DRAINAGE.
 - USE 18" DIA. MANHOLE RINGS FOR ALL STORM DRAINAGE.
 - USE 18" DIA. MANHOLE RINGS FOR ALL STORM DRAINAGE.

PROFILE: HAWAII DRIVE SOUTH
SCALE: 1" = 40' VERT., 1" = 8' HORIZ.

PROFILE: PRIVATE STORM DRAIN "PP"
SCALE: 1" = 40' VERT., 1" = 8' HORIZ.

PROFILE: PRIVATE STORM DRAIN "BB"
SCALE: 1" = 40' VERT., 1" = 8' HORIZ.



PRIVATE CONTRACT

THIS CONTRACT IS MADE THIS 15th DAY OF APRIL 2011, BETWEEN STEVEN C. CRESTO, ENGINEER, AND THE COUNTY OF SAN DIEGO TRACTS 8408 & 8409, CALIFORNIA, COUNTY OF SAN DIEGO TRACTS 8408 & 8409.

COUNTY APPROVED CHANGES

NO CHANGES

BENCH MARK

RECONSTRUCTION: BENCH MARK IS DIRECTLY ADJACENT TO THE EXISTING STORM DRAINAGE SYSTEM. BENCH MARK IS 1.5 FEET ABOVE THE EXISTING STORM DRAINAGE SYSTEM.

RECORD PLAN

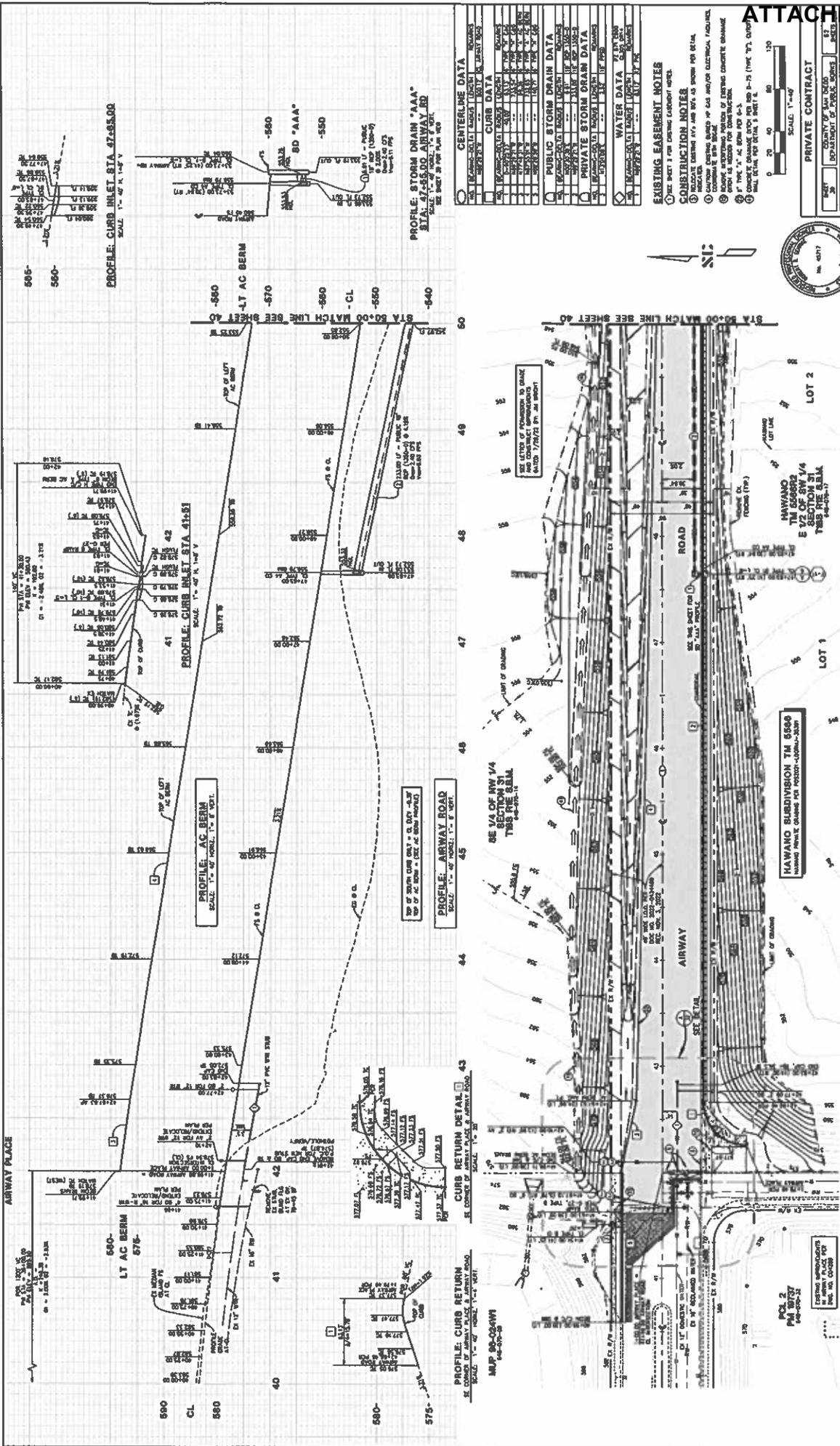
DATE: 04/15/11

STEVENS CRESTO ENGINEERS

9444 Chesapeake Dr., Ste. 200
San Diego, CA 92123
619-594-0000

PROJECT INFORMATION

PROJECT NO.: 0809-01



STEVENS CRESTO		O.W.D. "AS-BUILT"		OTAY WATER DISTRICT		COUNTY APPROVED CHANGES	
9655 Chesapeake Dr, Ste 200 San Diego, CA 92123 442-940-6000		PROJECT NO. 2023-00002L SHEET NO. 47-55.00		DATE 12/12/2023		DATE	
PROJECT: 01132-000574 DRAWN: DEVI-22-009		DATE 07/17/23 LAYOUT NO. 4717 PROJECT NO. 2023-00002L		DATE		DATE	
PROJECT: 01132-000574 DRAWN: DEVI-22-009		DATE 07/17/23 LAYOUT NO. 4717 PROJECT NO. 2023-00002L		DATE		DATE	

ATTACHMENT A

PRIVATE CONTRACT

COUNTY OF SAN DIEGO
COUNTY ENGINEER: [Signature]

ALTA ROAD & RESERVE VIVA ROAD
OTAY BUSINESS PARK & HAWAII SUBDIVISION
COUNTY OF SAN DIEGO TRACTS 6008 & 6009
CALIFORNIA COORDINATE INDEX 138-1791

DATE: 07/17/23
PROJECT NO: 2023-00002L
SHEET NO: 47-55.00

CENTERLINE DATA

STATION	47+55.00	47+55.00	47+55.00
CHANGING	---	---	---
ADJUST	---	---	---

CURE DATA

STATION	47+55.00	47+55.00	47+55.00
CHANGING	---	---	---
ADJUST	---	---	---

PUBLIC STORM DRAIN DATA

STATION	47+55.00	47+55.00	47+55.00
CHANGING	---	---	---
ADJUST	---	---	---

PRIVATE STORM DRAIN DATA

STATION	47+55.00	47+55.00	47+55.00
CHANGING	---	---	---
ADJUST	---	---	---

WATER DATA

STATION	47+55.00	47+55.00	47+55.00
CHANGING	---	---	---
ADJUST	---	---	---

SEAL

Professional Engineer
No. 40717

BENCH MARK

STATION: 47+55.00
ELEVATION: 550.75

OTAY WATER DISTRICT REVISIONS

NO.	DATE	DESCRIPTION	APPROVED BY

OTAY WATER DISTRICT

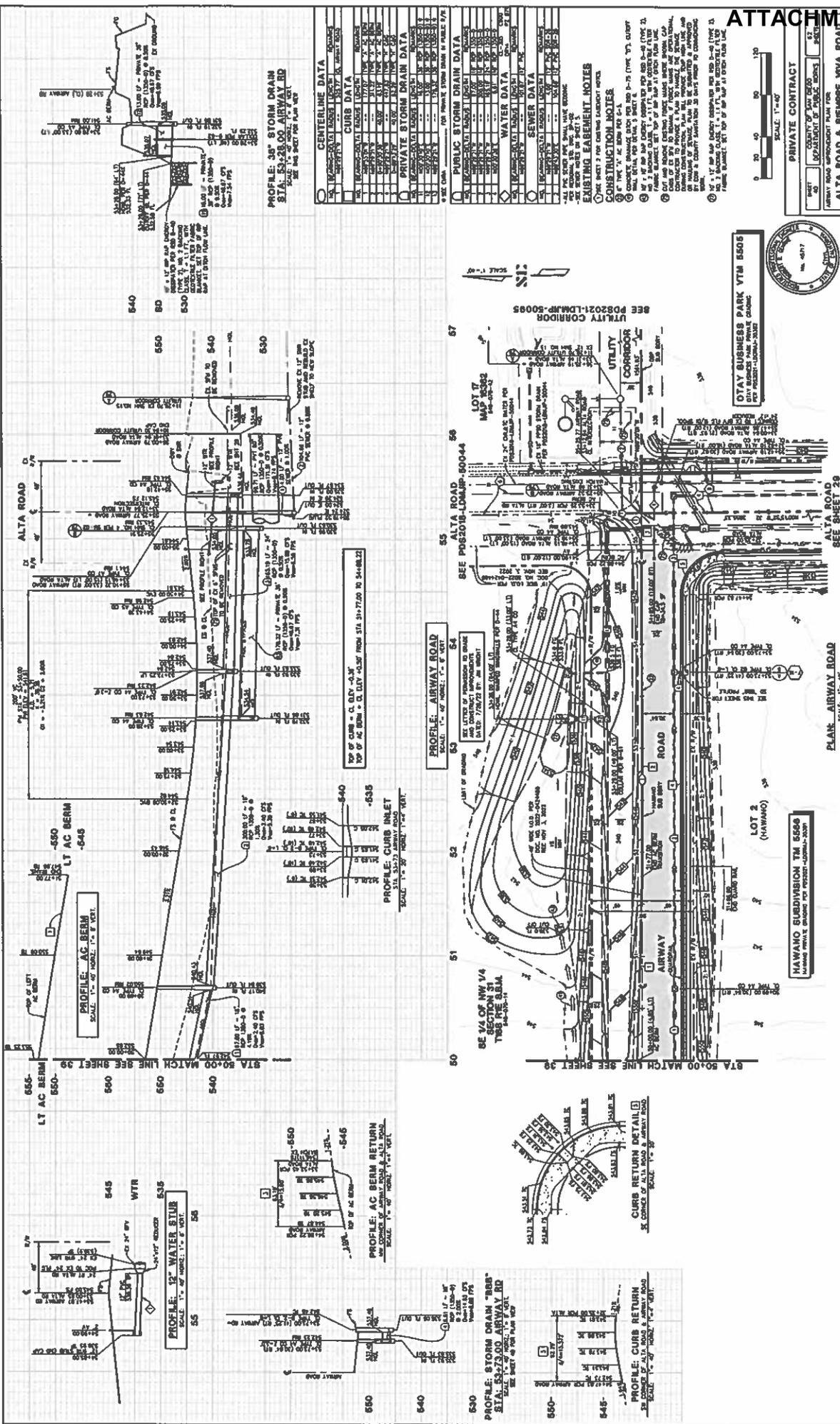
DATE: 12/12/2023
PROJECT NO: 2023-00002L
SHEET NO: 47-55.00

RECORD PLAN

DATE: 07/17/23
PROJECT NO: 2023-00002L
SHEET NO: 47-55.00

SEE P082023-ADM-JUP-60084

PROJECT: 01132-000574
DRAWN: DEVI-22-009



STEVENS
CRESTO
ENGINEERS
 9446 Chesapeake Dr. Ste 200
 San Diego, CA 92123
 619.451.4545 www.stevenscresto.com

RECORD PLAN

DATE: _____
 PROJECT NO.: 01132-000274
 SHEET NO.: 0107
 SCALE: 1"=40'

C.W.D. "AS-BUILT"

DATE: _____
 PROJECT NO.: 01132-000274
 SHEET NO.: 0107
 SCALE: 1"=40'

OTAY WATER DISTRICT

DATE: _____
 PROJECT NO.: 01132-000274
 SHEET NO.: 0107
 SCALE: 1"=40'

OTAY WATER DISTRICT REVISIONS

NO.	DESCRIPTION	DATE	BY	CHKD BY

COUNTY APPROVED CHANGES

NO.	DESCRIPTION	DATE	BY	CHKD BY

BENCH MARK

DESCRIPTION: BENCH MARK AT JUNCTION OF ALTA ROAD & AIRWAY ROAD
 ELEVATION: 550.00
 DATE: 10/15/13
 BY: J. GARCIA
 CHECKED BY: J. GARCIA

PROJECT INFORMATION

PROJECT NO.: 01132-000274
 SHEET NO.: 0107
 SCALE: 1"=40'

CONTRACT INFORMATION

CONTRACT NO.: 01132-000274
 CONTRACT DATE: 10/15/13
 CONTRACT VALUE: \$1,000,000.00

DESIGNER INFORMATION

DESIGNER: STEVENS CRESTO ENGINEERS
 PROJECT MANAGER: J. GARCIA
 PROJECT ENGINEER: J. GARCIA
 PROJECT SURVEYOR: J. GARCIA
 PROJECT DRAFTER: J. GARCIA

CLIENT INFORMATION

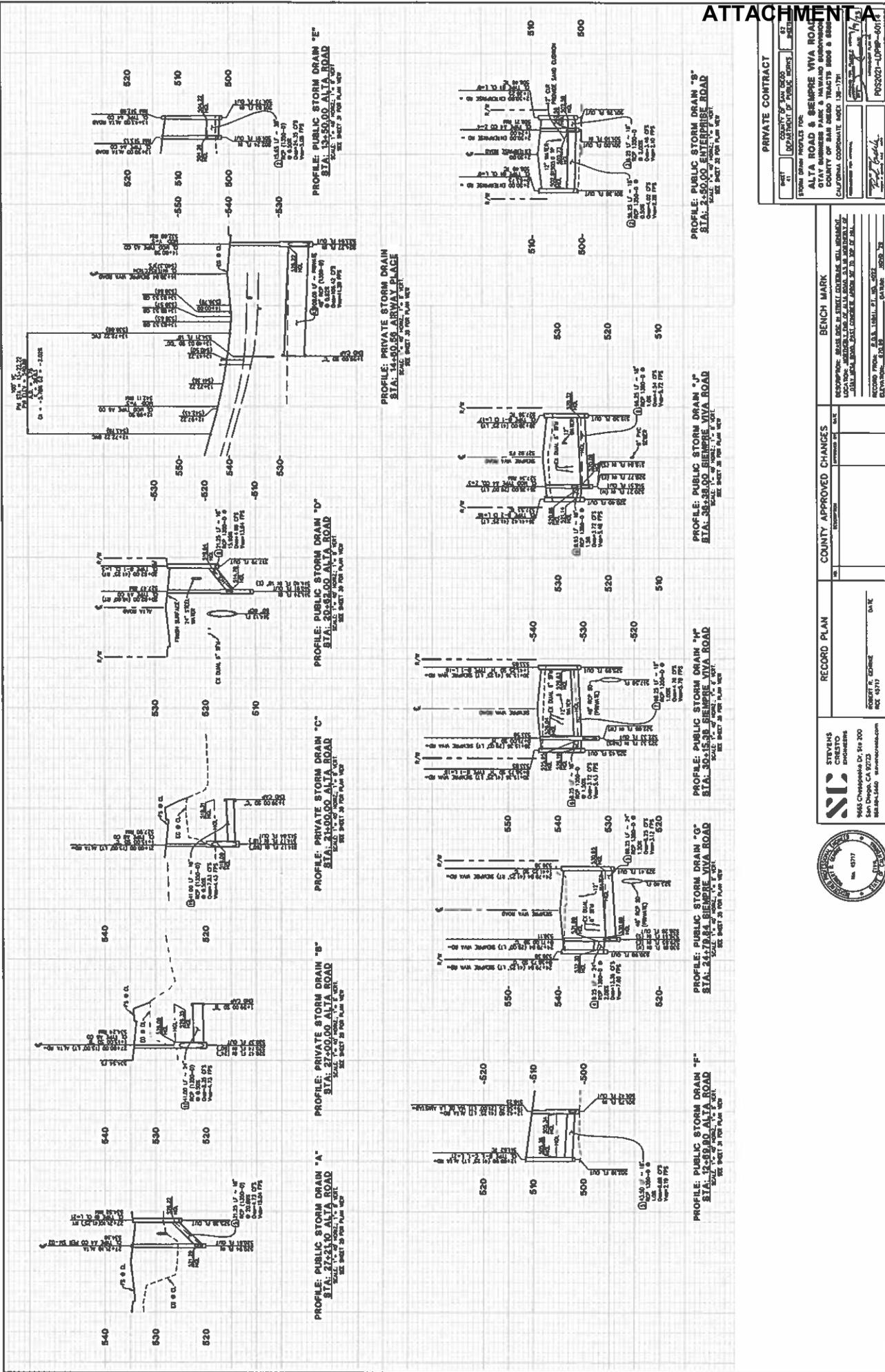
CLIENT: OTAY WATER DISTRICT
 CLIENT ADDRESS: 120000
 CLIENT PHONE: 619.451.4545
 CLIENT FAX: 619.451.4545
 CLIENT EMAIL: info@otaywater.com

APPROVALS

DESIGNER: _____
 PROJECT MANAGER: _____
 PROJECT ENGINEER: _____
 PROJECT SURVEYOR: _____
 PROJECT DRAFTER: _____

NOTES

1. ALL DIMENSIONS ARE IN FEET AND INCHES.
 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 3. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
 4. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
 5. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.



PRIVATE CONTRACT

SHEET NO. 11

COUNTY OF SAN DIEGO

SECTION 12, DIVISION 10, CHAPTER 101

STORM DRAIN PROFILES FOR
 ALTA ROAD AND SIEMPRE VIVA ROAD
 COUNTY OF SAN DIEGO TRACTS 8800 & 8800A
 CALIFORNIA COORDINATE MODEL 12N-17N

DATE: 05/20/2014

PROJECT NO: 0520-73

BENCH MARK

DESCRIPTION: BENCH MARK IN STREET ADJACENT TO 12TH STREET
 LOCATION: 12TH STREET AND SIEMPRE VIVA ROAD
 ELEVATION: 520.00

DATE: 05/20/2014

COUNTY APPROVED CHANGES

NO. _____

DATE _____

RECORD PLAN

DATE _____

BY: _____

DATE _____



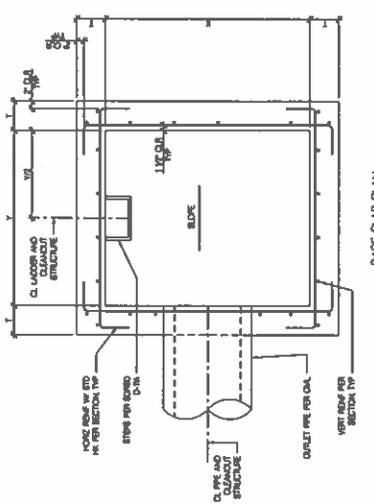
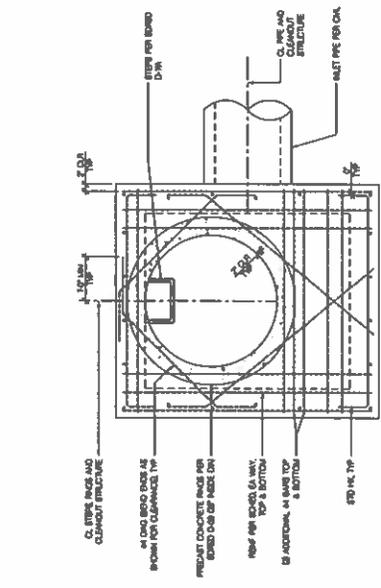
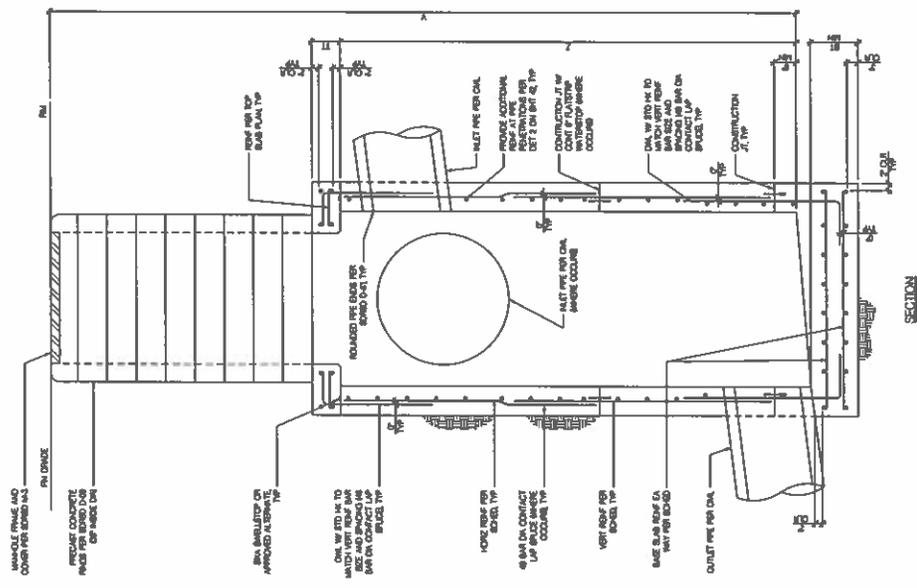
STEVENS CRESTO ENGINEERS

1968 Chesapeake Dr., Ste 200
 San Diego, CA 92123
 (619) 444-1000

STORM DRAIN CLEANOUT STRUCTURE GEOMETRY

STATION	TYPE	DEPTH 2' (DEPTH 1')	WALL THICKNESS 1'	TOP SLAB THICKNESS 1'	BASE SLAB THICKNESS 1'	STRUCTURE HEIGHT 2'	STRUCTURE WIDTH 1'
24-000	A	7	8"	8"	8"	12'	12'
24-000	A	8	8"	8"	8"	12'	12'
24-072	A	8	8"	8"	8"	12'	12'
24-084	A	8	8"	8"	8"	12'	12'
24-108	A	8	8"	8"	8"	12'	12'

STATION	TYPE	DEPTH 2' (DEPTH 1')	WALL THICKNESS 1'	TOP SLAB THICKNESS 1'	BASE SLAB THICKNESS 1'	STRUCTURE HEIGHT 2'	STRUCTURE WIDTH 1'
24-000	A	7	8"	8"	8"	12'	12'
24-000	A	8	8"	8"	8"	12'	12'
24-072	A	8	8"	8"	8"	12'	12'
24-084	A	8	8"	8"	8"	12'	12'
24-108	A	8	8"	8"	8"	12'	12'



- NOTES:
- SEE DAT NEED REVISIONS, STANDARD DRAWING BOARD FOR MORE.
 - SHOWN BUT NOT SPECIFIED.
 - ALL DIMENSIONS SHALL BE IN UNITS OF FEET AND INCHES.
- MODIFIED STORM DRAIN CLEANOUT STRUCTURES PLANS AND SECTION
SCALE: NONE



PRIVATE CONTRACT

STRUCTURAL NOTES AND DETAILS FOR:
ALTA ROAD & BEMPIRE VIVA ROAD
OTAY BUSINESS PARK & HAWAII GARDENS
COUNTY OF SAN DIEGO TRACTS 8900 & 8901
CALIFORNIA COORDINATE ZONE 10N-1791

DESIGNED BY: [Signature]
CHECKED BY: [Signature]

PROJECT NO.: 2008-231

COUNTY APPROVED CHANGES

RECORD PLAN

DATE: []/ []/ []

BY: []

SCALE: NONE

DATE: 2008-231

daik

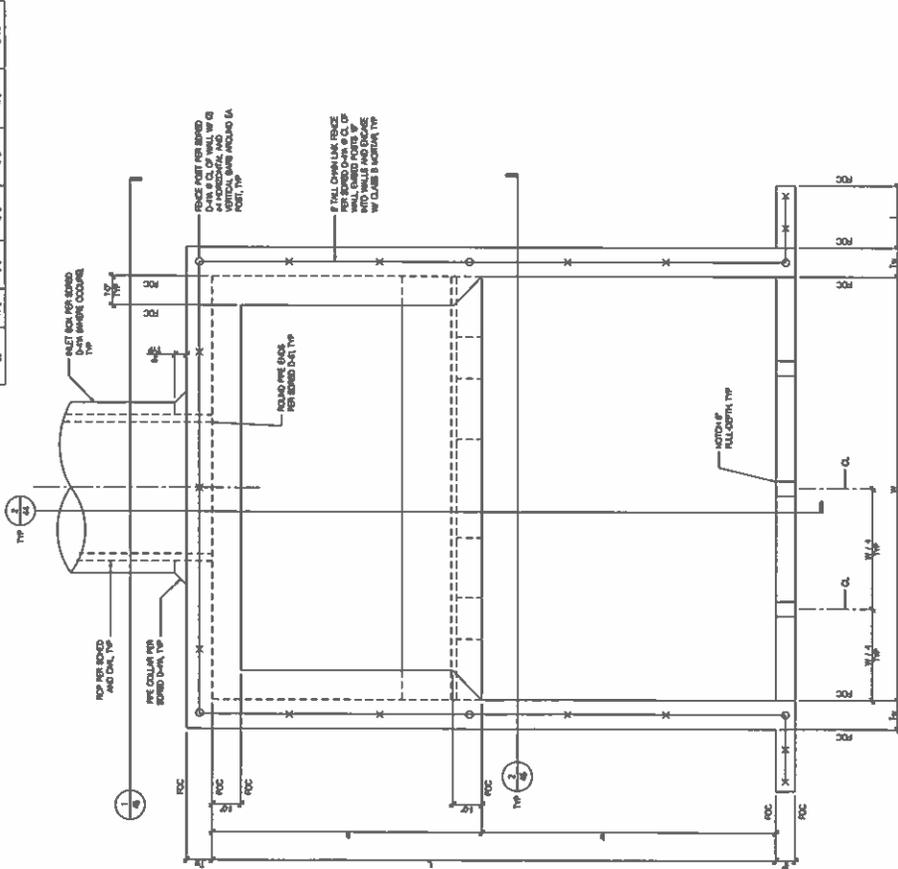
1800 County Center, Suite 200
San Diego, CA 92108
Tel: 619-594-8888
www.daik.com

CONCRETE ENERGY DISSIPATER STRUCTURE GEOMETRY

PIPE DIAMETER	HEIGHT	RETAIN Y	LENGTH L	DISTANCE W	WALL THICKNESS T _W
36"	8'-0"	5'-0"	14'-0"	6'-0"	8" @ 1'-0"
36"	8'-0"	5'-0"	14'-0"	6'-0"	8" @ 1'-0"
36"	8'-0"	5'-0"	14'-0"	6'-0"	8" @ 1'-0"
36"	8'-0"	5'-0"	14'-0"	6'-0"	8" @ 1'-0"

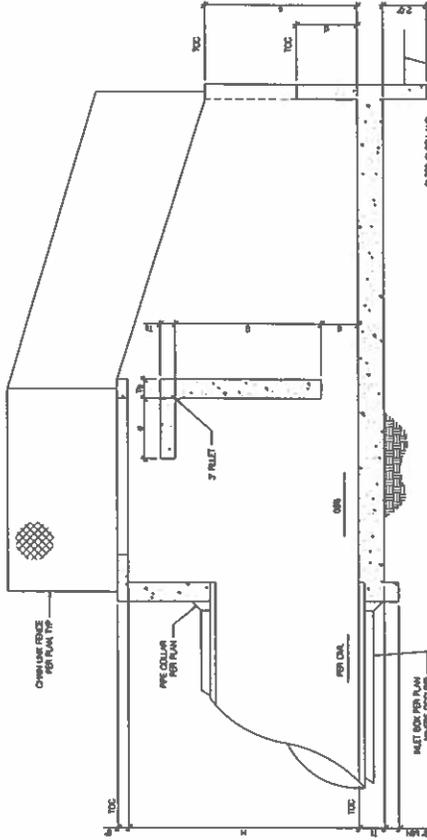
CONCRETE ENERGY DISSIPATER STRUCTURE GEOMETRY

PIPE DIAMETER	HEIGHT	BLANK Y	DISTANCE W	DISTANCE V	THICKNESS T _W	THICKNESS T _V
36"	8'-0"	5'-0"	14'-0"	3'-0"	8" @ 1'-0"	8" @ 1'-0"
36"	8'-0"	5'-0"	14'-0"	3'-0"	8" @ 1'-0"	8" @ 1'-0"
36"	8'-0"	5'-0"	14'-0"	3'-0"	8" @ 1'-0"	8" @ 1'-0"
36"	8'-0"	5'-0"	14'-0"	3'-0"	8" @ 1'-0"	8" @ 1'-0"



- NOTE:
- SEE SAN DIEGO REGIONAL ENGINEERING DIVISION DRAWING D-441 FOR DETAILS AND REVISIONS.
 - SEE SECTION 3 ON SHEET 4 FOR REVISIONS.

MODIFIED ENERGY DISSIPATER STRUCTURE SECTION



- NOTE:
- SEE SAN DIEGO REGIONAL ENGINEERING DIVISION DRAWING D-441 FOR DETAILS AND REVISIONS.
 - SEE SECTION 3 ON SHEET 4 FOR REVISIONS.

MODIFIED ENERGY DISSIPATER STRUCTURE SECTION

2

1

1

SCALE: 1/4" = 1'-0"

DATE: 08/11/11

BY: [Signature]

CHECKED: [Signature]

PROJECT: [Project Name]



ark
1970 Central Express, Suite 202
San Diego, CA 92101
619.594.0000
www.arkinc.com



PRIVATE CONTRACT

PROJECT: [Project Name]

DATE: [Date]

DESIGNED BY: [Name]

CHECKED BY: [Name]

APPROVED BY: [Name]

CONTRACT NO.: [Contract Number]

NO.	DESCRIPTION	DATE	BY

RECORD PLAN

DATE: [Date]

BY: [Name]

BENCH MARK

DESCRIPTION: [Description]

LOCATION: [Location]

DATE: [Date]

BY: [Name]

COUNTY APPROVED CHANGES

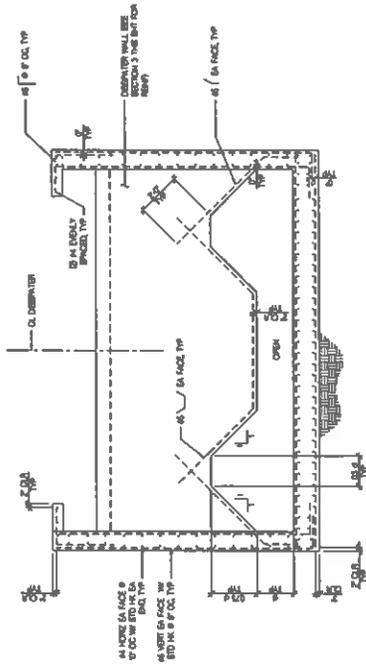
DATE: [Date]

BY: [Name]

CONTRACT NO.: [Contract Number]

DATE: [Date]

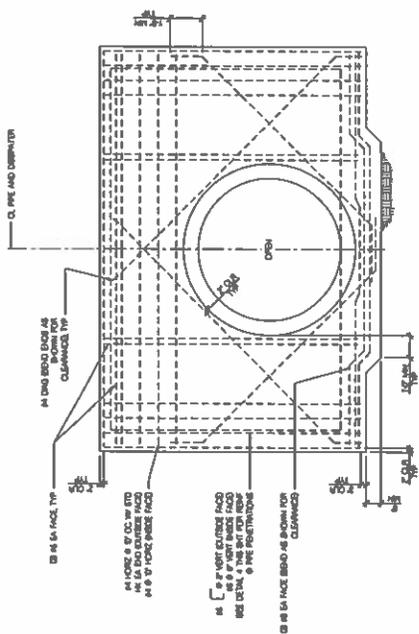
BY: [Name]



- NOTES
 1. SEE SAN DIEGO REGIONAL STANDARD DRAWING BONDING 0-08 FOR REBAR NOT SHOWN AND FOR TIES SHOWN BUT NOT REINFORCED.
 2. OPEN LINE TRACE NOT SHOWN FOR CLARITY.

MODIFIED ENERGY DISSIPATER STRUCTURE SECTION
 SCALE NONE

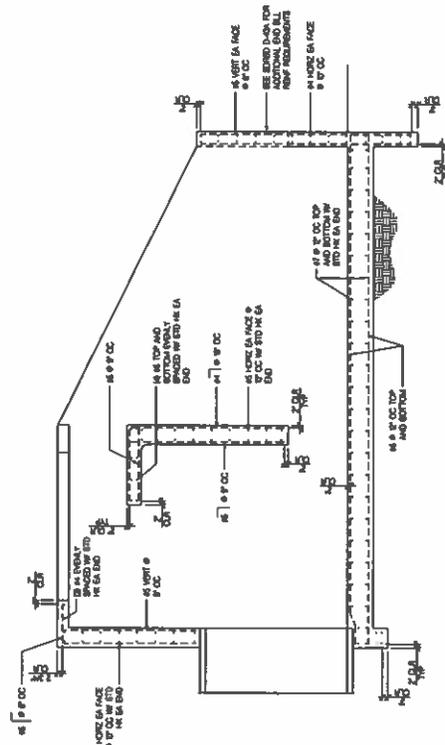
2



- NOTES
 1. SEE SAN DIEGO REGIONAL STANDARD DRAWING BONDING 0-08 FOR REBAR NOT SHOWN AND FOR TIES SHOWN BUT NOT REINFORCED.
 2. OPEN LINE TRACE NOT SHOWN FOR CLARITY.

MODIFIED ENERGY DISSIPATER STRUCTURE SECTION
 SCALE NONE

1



- NOTES
 1. SEE SAN DIEGO REGIONAL STANDARD DRAWING BONDING 0-08 FOR REBAR NOT SHOWN AND FOR TIES SHOWN BUT NOT REINFORCED.
 2. OPEN LINE TRACE NOT SHOWN FOR CLARITY.

MODIFIED ENERGY DISSIPATER STRUCTURE SECTION
 SCALE NONE

3



PRIVATE CONTRACT
 PROJECT NO. 10050
 DATE 11/15/19

FRANCIS J. BROWN, P.E.
 ALTA ROAD & BENSURE VIVA ROAD
 6745 BUSINESS PARK & HAVANAO SUBDIVISION
 COUNTY OF SAN DIEGO TRACTS 8806 & 8807
 CALIFORNIA COORDINATE SYSTEM 13N-17W

PROJECT NO. 10050
 DATE 11/15/19
 POS:021-LDPP-60114

RECORD PLAN

COUNTY APPROVED CHANGES
 SHEET NO. 1 OF 1
 DATE 11/15/19

SCALE NONE

PROJECT NO. 10050
 DATE 11/15/19
 POS:021-LDPP-60114

DATE

DATE

DATE

EROSION CONTROL, HYDROSEEDING, PLANTING AND IRRIGATION

- 1. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED WITHIN 14 DAYS OF THE START OF CONSTRUCTION...
2. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION...
3. HYDROSEEDING SHALL BE APPLIED TO ALL EXPOSED SOILS...
4. PLANTING SHALL BE COMPLETED WITHIN 14 DAYS OF THE END OF CONSTRUCTION...

Table with 4 columns: SPECIFIC NAME, COMMON NAME, LBS/1000 SQ FT, and SEED TYPE. Rows include: BIRDSEED CANADIAN, CAULIFLOWER BROCC, 1.5, BIRDSEED; LOTUS BIRDSEED, 2.0; PLANTAIN SEEDS, 2.0; WHEAT BIRDSEED, 2.0.

NOTE: THIS IS TO BE APPLIED WITH A 1/2" LAYER OF FERTILIZER...
1.0 LBS PER 1000 SQ FT OF SOIL...
2.0 LBS PER 1000 SQ FT OF SOIL...

REFERENCES

- 1. CALIFORNIA CONSTRUCTION QUALITY ASSOCIATION (CQA) 2012 CONSTRUCTION BMP HANDBOOK / 2012 EROSION CONTROL...
2. CALIFORNIA CONSTRUCTION QUALITY ASSOCIATION (CQA) 2012 CONSTRUCTION BMP HANDBOOK / 2012 EROSION CONTROL...

EROSION CONTROL MEASURES

- 1. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION...
2. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION...
3. EROSION CONTROL MEASURES SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION...

ROBBERED FIBER MATRIX ITEM

- 1. THE USE OF FIBER MATRICES SHALL BE LIMITED TO THE FOLLOWING LIMITATIONS AND RESTRICTIONS...
2. FIBER MATRICES SHALL BE APPLIED TO ALL EXPOSED SOILS...
3. FIBER MATRICES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION...

EROSION AND SEDIMENT CONTROL MEASURES

- 1. EROSION CONTROL MEASURES SHALL BE INSTALLED WITHIN 14 DAYS OF THE START OF CONSTRUCTION...
2. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION...
3. EROSION CONTROL MEASURES SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION...

BLASTFURNACE AND SEDIMENT CONTROL MEASURES

- 1. BLASTFURNACE AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED WITHIN 14 DAYS OF THE START OF CONSTRUCTION...
2. BLASTFURNACE AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION...
3. BLASTFURNACE AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION...

EMERGENCY EROSION CONTROL MEASURES

- 1. EMERGENCY EROSION CONTROL MEASURES SHALL BE INSTALLED WITHIN 24 HOURS OF THE START OF CONSTRUCTION...
2. EMERGENCY EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION...
3. EMERGENCY EROSION CONTROL MEASURES SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION...

STORM WATER MANAGEMENT NOTES

- 1. STORM WATER MANAGEMENT MEASURES SHALL BE INSTALLED WITHIN 14 DAYS OF THE START OF CONSTRUCTION...
2. STORM WATER MANAGEMENT MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION...
3. STORM WATER MANAGEMENT MEASURES SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION...

PRIVATE CONTRACT
COUNTY OF SAN DIEGO
DEPARTMENT OF PUBLIC WORKS
ALTA ROAD AND BEMPRE VVA ROAD
COUNTY OF SAN DIEGO TRACTS 8606 & 8607
CALIFORNIA COORDINATE INCHES 132-1791



Table with 2 columns: COUNTY APPROVED CHANGES, RECORD DATE. Row 1: COUNTY APPROVED CHANGES, RECORD DATE.

RECORD PLAN
COUNTY APPROVED CHANGES
RECORD DATE

STEVENS CREDIT
18650 Chino Blvd, Ste 100
Chino, CA 91710
www.stevenscredit.com

STEVENS CREDIT
18650 Chino Blvd, Ste 100
Chino, CA 91710
www.stevenscredit.com

LEGEND

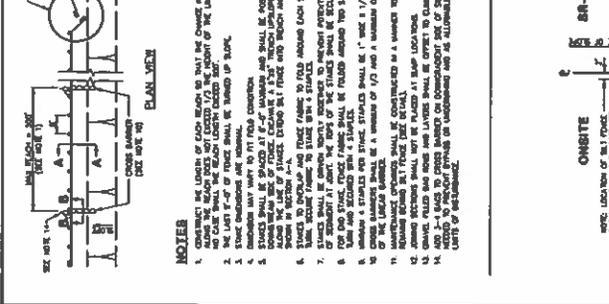
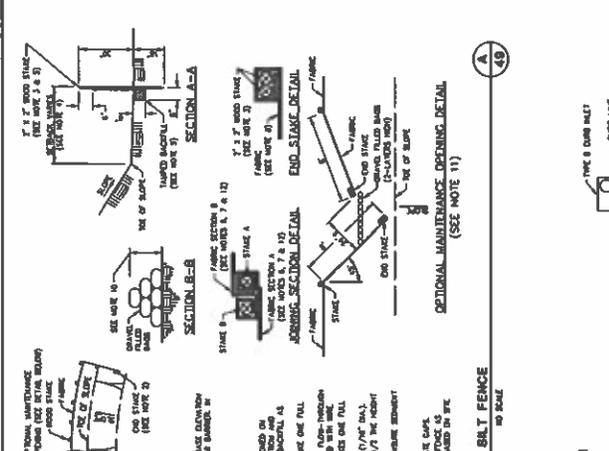
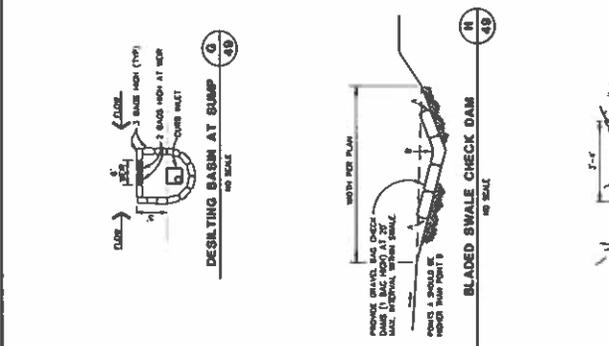
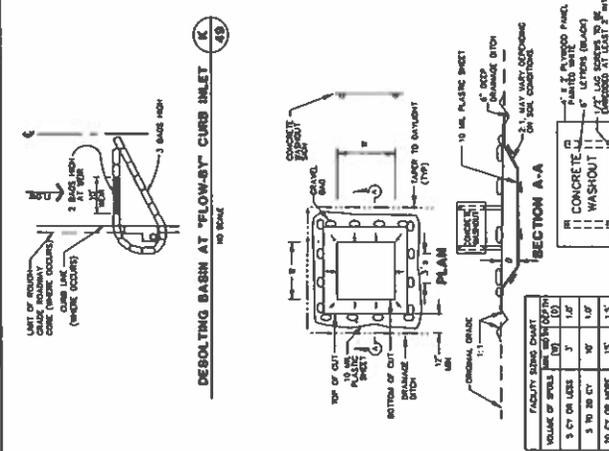
ITEM	SYMBOL	DETAIL
WALLET BOUNDARY	---	---
PROPOSED STORM DRAIN	---	---
EXISTING STORM DRAIN	---	---
DIRECTION OF FLOW ON GRADE (TP)	---	---
TEMPERATURE CONTROL FACILITY	---	---
TEMPERATURE CONTROL FACILITY	---	---
TEMPERATURE CONTROL FACILITY	---	---
TEMPERATURE CONTROL FACILITY	---	---
TEMPERATURE CONTROL FACILITY	---	---
TEMPERATURE CONTROL FACILITY	---	---
TEMPERATURE CONTROL FACILITY	---	---
TEMPERATURE CONTROL FACILITY	---	---
TEMPERATURE CONTROL FACILITY	---	---

NOTES:

- SEE SHEET 48 FOR CONDO CENTER NOTES.
- SEE SHEET 48 FOR HORIZONTAL AS WALLS.
- SEE SHEET 48 FOR HORIZONTAL AS WALLS.

ADDITIONAL CONSTRUCTION BUMPS TO BE IMPLEMENTED

REVISIONS TO CONSTRUCTION BIDDING: SEE SHEET 48 FOR HORIZONTAL AS WALLS. SEE SHEET 48 FOR HORIZONTAL AS WALLS. SEE SHEET 48 FOR HORIZONTAL AS WALLS.



LEGEND

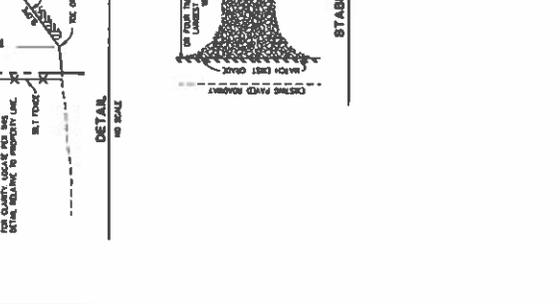
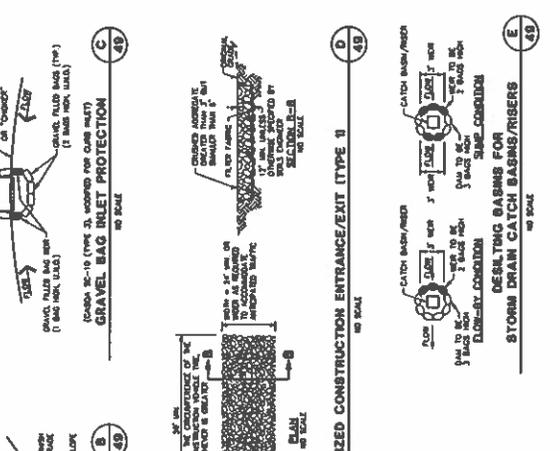
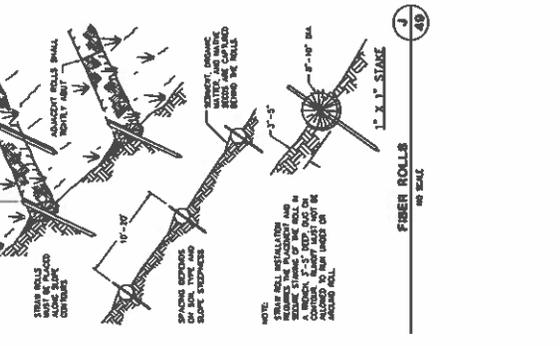
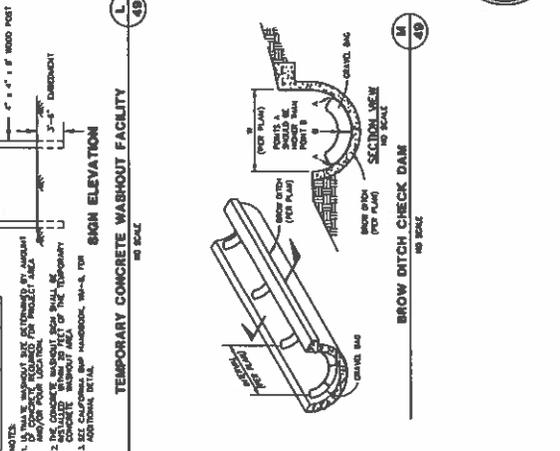
ITEM	SYMBOL	DETAIL
WALLET BOUNDARY	---	---
PROPOSED STORM DRAIN	---	---
EXISTING STORM DRAIN	---	---
DIRECTION OF FLOW ON GRADE (TP)	---	---
TEMPERATURE CONTROL FACILITY	---	---
TEMPERATURE CONTROL FACILITY	---	---
TEMPERATURE CONTROL FACILITY	---	---
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TEMPERATURE CONTROL FACILITY	---	---
TEMPERATURE CONTROL FACILITY	---	---

NOTES:

- SEE SHEET 48 FOR CONDO CENTER NOTES.
- SEE SHEET 48 FOR HORIZONTAL AS WALLS.
- SEE SHEET 48 FOR HORIZONTAL AS WALLS.

ADDITIONAL CONSTRUCTION BUMPS TO BE IMPLEMENTED

REVISIONS TO CONSTRUCTION BIDDING: SEE SHEET 48 FOR HORIZONTAL AS WALLS. SEE SHEET 48 FOR HORIZONTAL AS WALLS. SEE SHEET 48 FOR HORIZONTAL AS WALLS.



PRIVATE CONTRACT

THIS CONTRACT IS FOR THE DESIGN AND CONSTRUCTION OF THE STORM DRAINAGE SYSTEM FOR THE ALTA ROAD & BENSURE WVA ROAD AT ALTA BUSINESS PARK & HAWAII SUBDIVISION COUNTY OF SAN DIEGO TRACTS 8808 & 8809 CALIFORNIA CORPORATE ZONE 138-1701

DATE: 01/12/17

PROJECT NO: 17-001

CONTRACT NO: 17-001

COUNTY APPROVED CHANGES

NO.	DESCRIPTION	DATE

RECORD PLAN

DATE: 01/12/17

SCALE: AS SHOWN

STEVENS CRESTO
PROFESSIONAL ENGINEER
5465 Chatsworth Dr., Ste 300
San Diego, CA 92121
(619) 594-1100

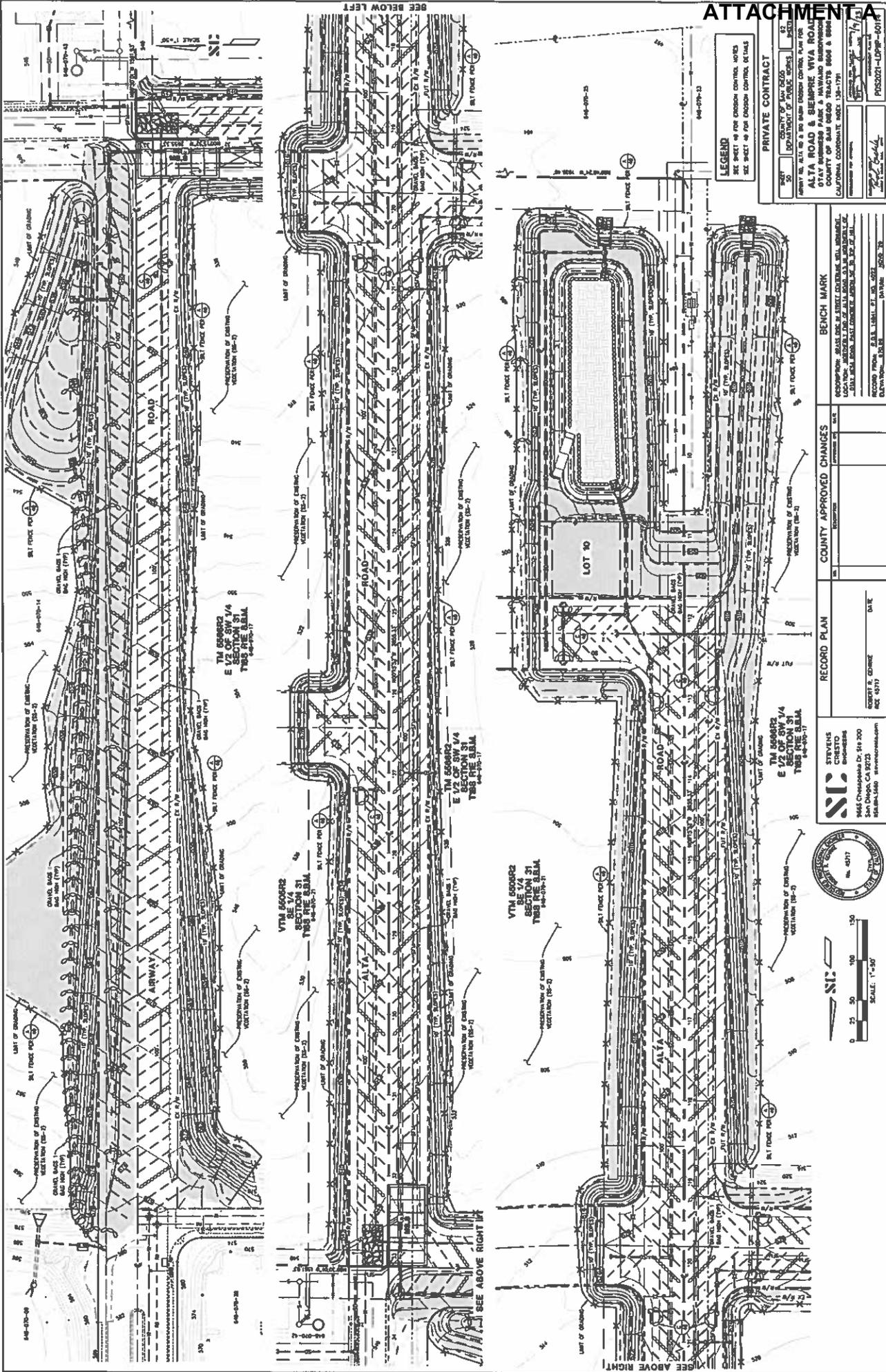
BENCH MARK

DESCRIPTION: BENCH MARK IS NOT TO BE USED FOR CONSTRUCTION OF THIS PROJECT.

LOCATION: 10' NORTH OF THE CENTERLINE OF THE ROAD AND 10' WEST OF THE CENTERLINE OF THE ROAD.

RECORD PLAN: 01/12/17, 17-001, 17-001

ELEVATION: 4817



LEGEND
 SEE SHEET OF FOR DESIGN CONTROL MARKS
 SEE SHEET OF FOR DESIGN CONTROL MARKS

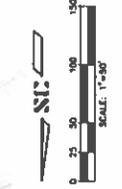
PRIVATE CONTRACT
 NO. 2025
 COUNTY OF SAN DIEGO
 COUNTY OF SAN DIEGO

ALTA ROAD & BEARERE NVA ROAD
 STAY BUSINESS PARK & HAWAII SUBDIVISION
 COUNTY OF SAN DIEGO TRACTS 8968 & 8969
 CALIFORNIA COORDINATE INDEX 13K-1791

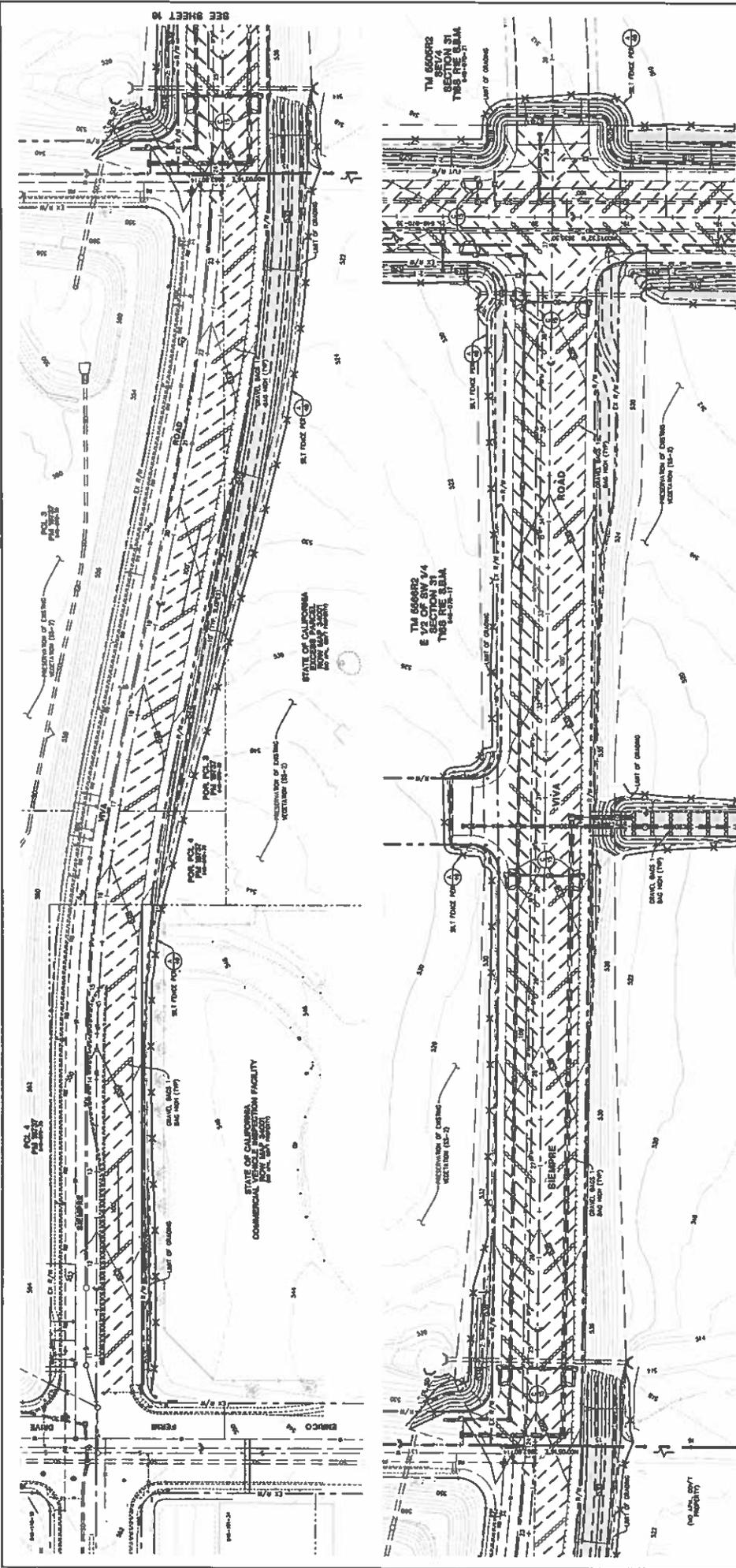
BENCH MARK
 RECORD FROM: S.A.A. LOCAL #1, 100-222
 ELEVATION: 520.86
 DATE: 2502-78

COUNTY APPROVED CHANGES
 RECORD PLAN
 DATE

STEVENS
 CREDITO
 ENGINEERS
 3944 Chesapeake Dr., #100
 San Diego, CA 92123
 (619) 444-1444
 www.stevens-engineers.com



SEE ABOVE RIGHT
 SEE ABOVE LEFT



LEGEND
 SEE SHEET 44 FOR DESIGN CONTROL NOTES
 SEE SHEET 45 FOR DESIGN CONTROL DETAILS



PRIVATE CONTRACT

PROJECT NO. 12
 COUNTY OF SAN DIEGO
 PROJECT: ALTA ROAD & SHERBINE VIVA ROAD
 STAY BUSINESS PARK & HANWARD SUBDIVISION
 COUNTY OF SAN DIEGO TRACTS 8906 & 8908
 CALIFORNIA COORDINATE INDEX 13N-17W

DATE: 11/12/11
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 PROJECT: 13N-17W-4011

BENCH MARK

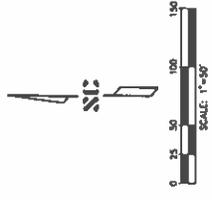
COORDINATES: 8146.500 E, 3162.000 N, 11.000 W
 ACCORDING TO: S.D.G.S. 13N-17W-4011, 11/12/11
 ELEVATION: 321.00

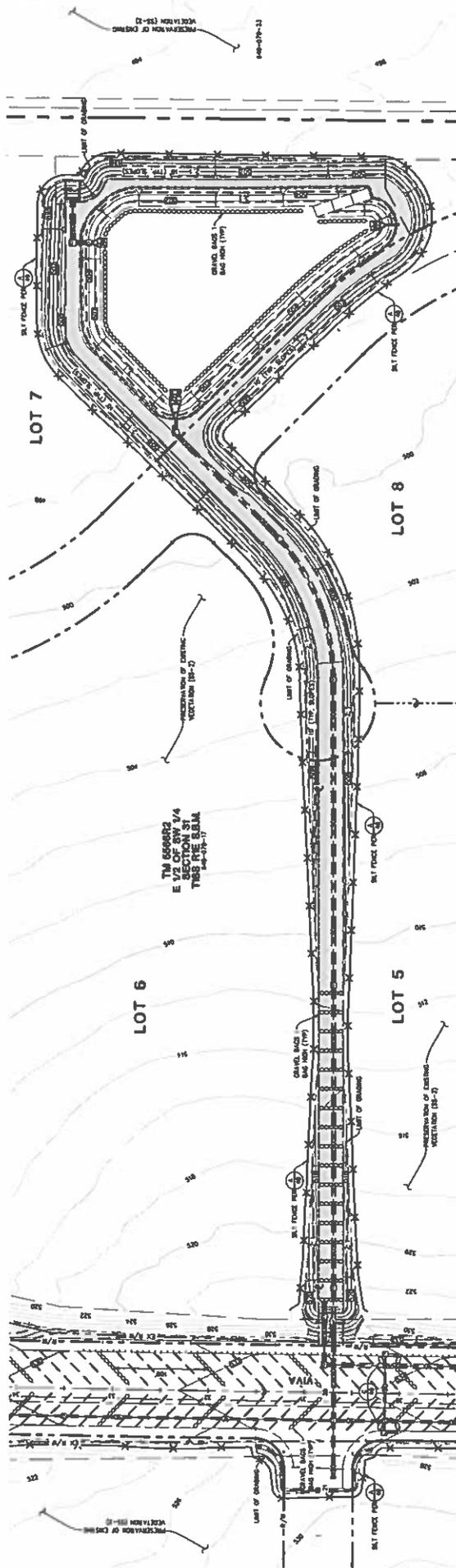
NO.	DESCRIPTION	APPROVED BY	DATE

RECORD PLAN

DATE: 11/12/11
 BY: ROBERT A. GURNEE
 NO. 49717

STEVENS CREDIT ENGINEERS
 1542 Chestnut Dr., Ste 200
 San Marcos, CA 92078
 760-341-1444





LEGEND
 SEE SHEET #4 FOR EXISTING CONTOUR NOTES
 SEE SHEET #5 FOR EXISTING CONTOUR DETAILS



PRIVATE CONTRACT
 SHEET NO. 1 OF 2
 PROJECT NO. 13-1791
 CLIENT: ALTA ROAD & BEAUBRE VIVA ROAD
 OTAY BUSINESS PARK & HAWAIIO SUBDIVISION
 COUNTY OF SAN DIEGO TRACTS 8605 & 8946
 CALIFORNIA CONTRACT NO. 13-1791
 DATE: 12/15/11
 PROJECT: 13-1791-0011F

RECORD PLAN
 PROJECT NO. 13-1791
 SHEET NO. 1 OF 2
 DATE: 12/15/11

COUNTY APPROVED CHANGES
 NO. _____
 DATE _____

BENCH MARK
 ELEVATION: 844.15
 LOCATION: 1/4 MILE WEST OF 1/4 SECTION 31
 T15S R15E S81M
 RECORD FROM: S.D.G. 12861, P.T. 104, 2002
 DATA FROM: S.D.G. 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

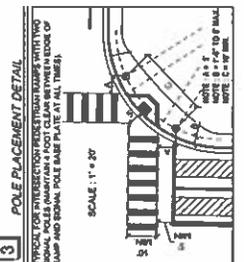
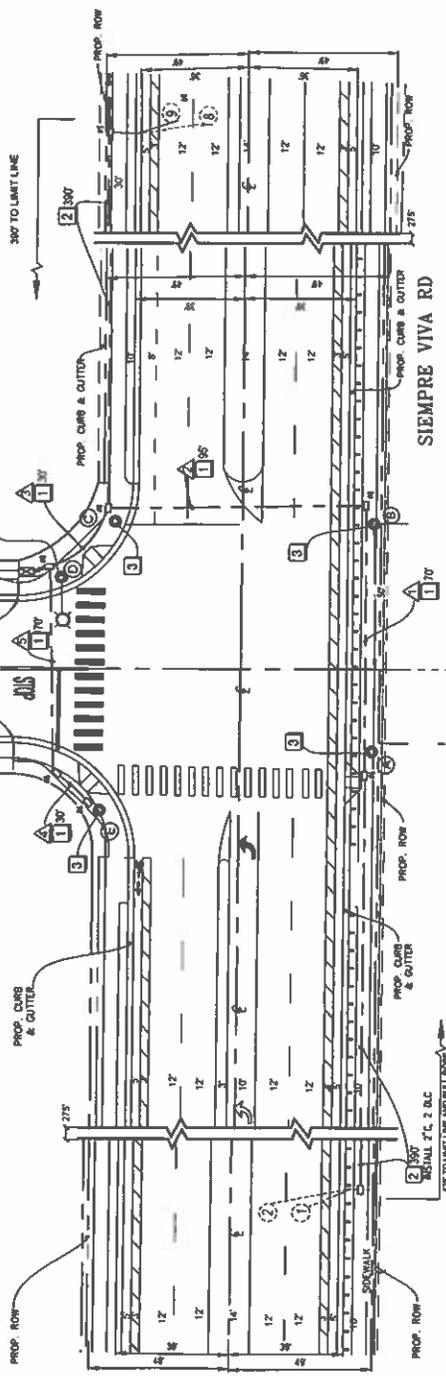
COUNTY OF SAN DIEGO TRAFFIC SIGNAL CONSTRUCTION NOTES

1. INSTALL 3" CONDUIT WITH PULL ROPE IN CONDUITS \triangle , \triangle , \triangle , AND #6 PULL BOXES. CONDUITS ARE TO BE PLACED 36" INCHES BELOW FINISHED GRADE OF ROADWAYS AND SIDEWALKS. (TOTAL 320 FEET)
2. INSTALL 2" CONDUIT WITH PULL ROPE WITH #6 PULL BOXES SPACED 250' FEET. CONDUITS ARE TO BE PLACED 36" BELOW GRADE OF SIDEWALK. (TOTAL 780 FEET)
3. PROPOSED TRAFFIC SIGNAL POLE FOUNDATION LOCATIONS SHOWN ON SHEET 55 OF SHEET 61 ARE PROVIDED FOR PLACEMENT OF THE #6 PULL BOXES TO ACCOMMODATE THE INSTALLATION OF EMPTY CONDUITS FOR THE FUTURE TRAFFIC SIGNALS.

LEGEND

- \triangle = CONDUIT RUN #
- B = CONSTRUCTION NOTE 1
- C = FEET OF CONDUIT AND PULL ROPE
- \odot = FUTURE SIGNAL POLE LOCATIONS SEE SIGNAL PLAN SHEET 55.

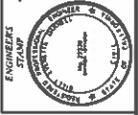
- COUNTY OF SAN DIEGO CONSTRUCTION GENERAL NOTES**
1. ALL RED, YELLOW, AND GREEN SIGNAL INDICATORS SHALL BE WLED.
 2. ALL PROTESTER VEHICLES SHALL BE INTERVENTIONAL SYMBOLS AND LLED.
 3. PROTESTER VEHICLES SHALL BE TYPE C INTERVENTIONAL SYMBOLS.
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STO TYPE	SPAN	LOCATION
A	5' 7"	A
B	5' 7"	B
C	5' 7"	C
D	5' 7"	D
E	5' 7"	E



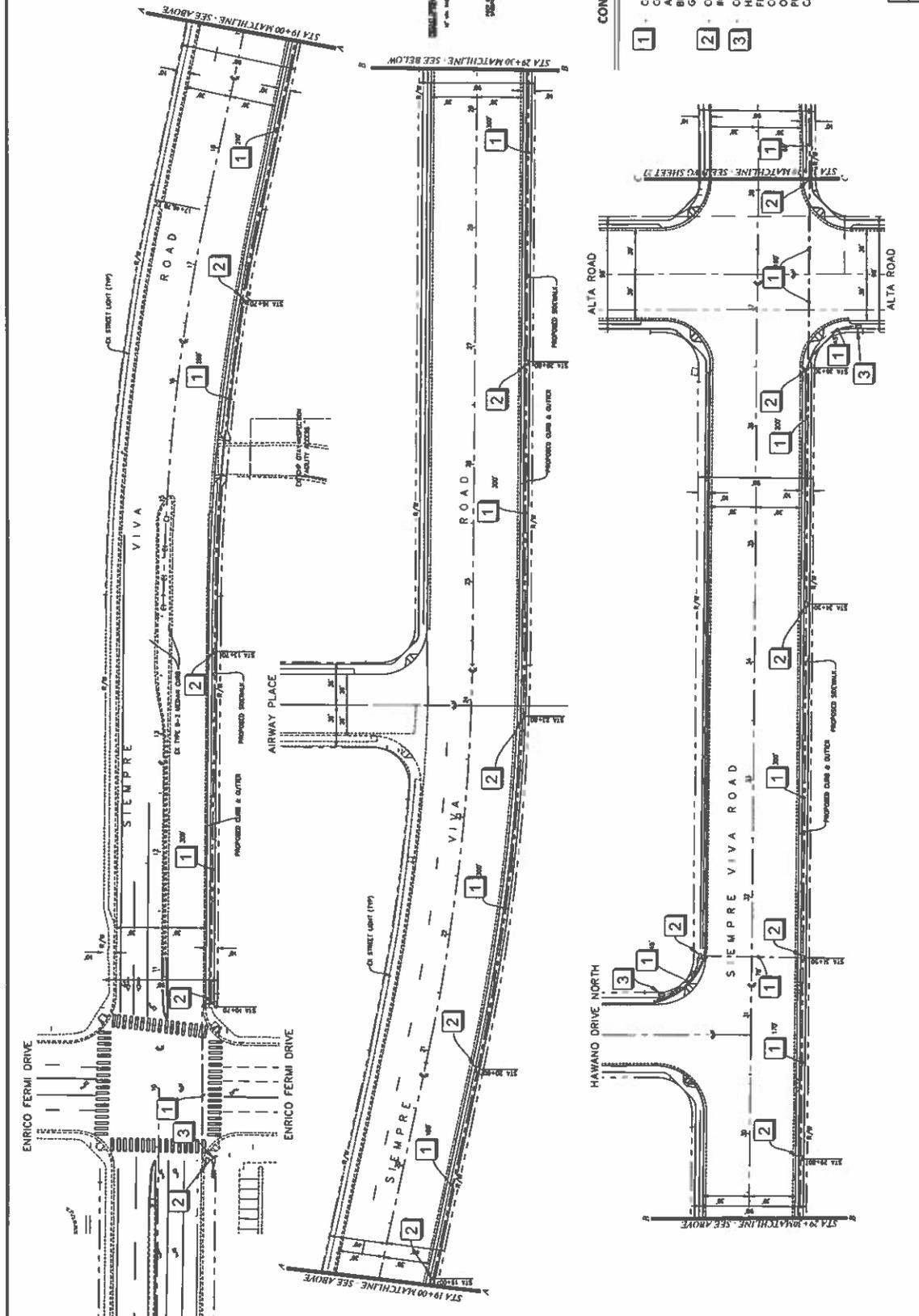
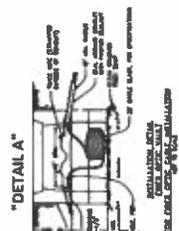
ENGINEER'S SEAL AND SIGNATURE FOR THE SUPERVISOR OF:
Paul E. Darnell 12/04/2022
 REGISTERED PROFESSIONAL ENGINEER
 LICENSE NO. 12715223
Darnell & Associates
 4111 SIEMPRE VIVA STREET, SUITE 200
 SAN DIEGO, CA 92121
 (619) 233-9870



NO.	DESCRIPTION	DATE

BENCH MARK
 DESCRIPTION: BENCH MARK IN METAL CONTAINER, METAL CORNER
 LOCATION: 10' SOUTH OF THE INTERSECTION OF SIEMPRE VIVA RD AND HAWANO DRIVE N.
 RECORD FROM: 3.05.1981, P.T. 100, 5002
 ELEVATION: 573.00' DATUM: MGS 29'

PRIVATE CONTRACT
 COUNTY OF SAN DIEGO
 DEPARTMENT OF PUBLIC WORKS
 PROJECT NO. 19-0001
 CONTRACT NO. 19-0001-01
 DATE: 12/04/2022
 DRAWING NO. 19-0001-01-01
 SHEET NO. 19-0001-01-01-01
 PROJECT: SIEMPRE VIVA RD AT HAWANO DRIVE NORTH
 COUNTY OF SAN DIEGO TRAFFIC SIGNALS
 COUNTY OF SAN DIEGO TRAFFIC SIGNALS
 CALIFORNIA, COORDINATE NORTH 13.0-17.0
 ENGINEER'S NAME: BILL E. DARNELL
 PROJECT NO. 19-0001
 CONTRACT NO. 19-0001-01
 DATE: 12/04/2022
 DRAWING NO. 19-0001-01-01
 SHEET NO. 19-0001-01-01-01



- CONSTRUCTION NOTES**
- 1 CONTRACTOR TO INSTALL THREE (3) INCH CONDUIT WITH TRACE WIRE, PULL ROPE AND 36 FIBER OPTIC CABLE. CONDUIT TO BE INSTALLED UNDER SIDEWALK, UNDER GRADE OF STREET AND SIDEWALK.
 - 2 CONTRACTOR TO INSTALL DOUBLE STACK #6 PULL BOX PER DETAIL A.
 - 3 CONTRACTOR TO INSTALL INTERCONNECT HAND-HOLD FOR TERMINATION OF 36 FIBER INTERCONNECT CABLE AND CONDUIT FOR INSTALLATION OF 22 FIBER OPTIC CABLE WITH PULL ROPE. PULL BOX TO INTERSECTION CONTROLLER CABINET.

PRIVATE CONTRACT

SHEET NO.	COUNT OF SHEETS
DATE	PROJECT NO.
PROJECT NAME: ENRICO FERMI DRIVE TO ALTA ROAD PROJECT LOCATION: SIEMPRE VIVA ROAD COUNTY OF SAN DIEGO CALIFORNIA COOPERATIVE INDEX: 130-131	
DATE OF ISSUE	PROJECT NO.
DATE OF REVISION	PROJECT NO.

BENCH MARK

DESCRIPTION: **BEARER BEAR IN STREET CENTRAL**

RECORD FROM: **ESS. USH. F.P. 181. 022**

ELEVATION: **678.9**

COUNTY APPROVED CHANGES

NO.	DESCRIPTION	DATE

RECORD PLAN

DATE: **7/20/2011**

BY: **[Signature]**

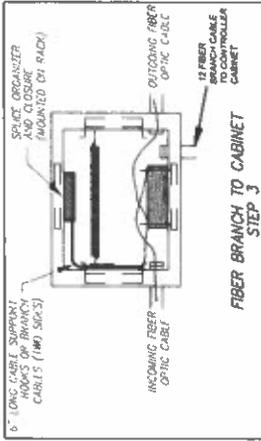
READY FOR SUBMITTAL TO THE DEPARTMENT OF PUBLIC WORKS

Darnell & ASSOCIATES
 5411 MARQUETTE STREET SUITE 204
 SAN DIEGO, CA 92121
 (619) 533-0371

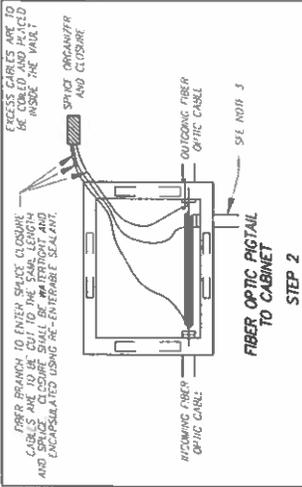
DATE: **7/20/2011**



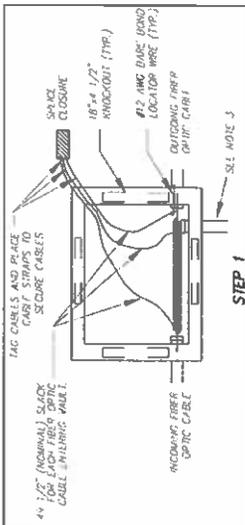
ENGINEER'S NAME: BILL E. DARNELL
 PROJECT: HAYWARD COUNTY RECORD PLAN



FIBER BRANCH TO CABINET
STEP 3



FIBER OPTIC PIGTAIL TO CABINET
STEP 2



STEP 1

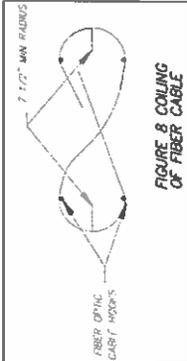
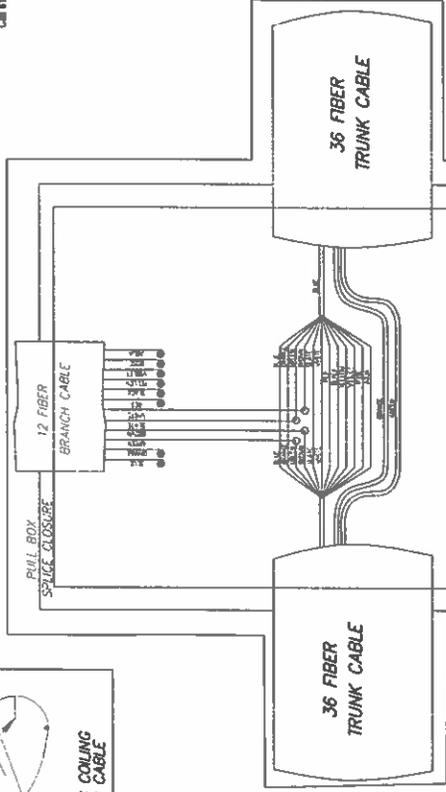
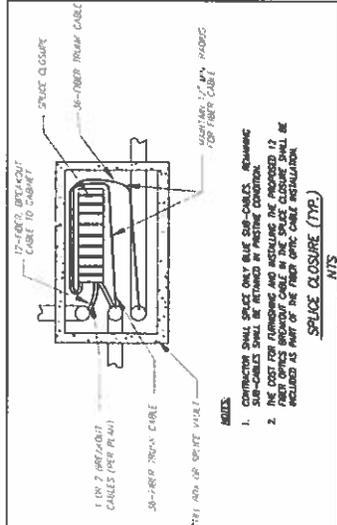


FIGURE 8 COILING OF FIBER CABLE



SPlice CLOSURE (TYPE) NOTES

- CONDUIT FROM THE TYPICAL TRENCH SECTION SHALL NOT DEFLECT BY MORE THAN 1" / 12" FROM THE ALIGNMENT PRECEDING OR FOLLOWING THE PULL BOX.
- BOTTOM OF CONDUITS SHALL BE LOCATED AT 30" BELOW EXISTING GROUND. CONDUITS AT PULL POINTS SHALL BE LOCATED NO MORE THAN 1" / 12" TO ENTER PULL BOX. CONDUITS SHALL BE FILL WITH MORTAR AND GROUT TO FULL DEPTH.
- LATERAL CONDUITS AS REQUIRED.
- ALL NEW PULL BOXES SHALL BE FURNISHED WITH ANCHORS AND HOOKS INSTALLED.
- ANCHORS AND HOOKS SHALL BE INSTALLED IN ALL SPlice WAITS.
- PROVIDE 100' OF SLACK FOR THE SINGLE WAVE TRUNK CABLE SHALL BE PROVIDED AT ALL SPlice WAITS WITHOUT WAIVES.
- BACKFILL WITH DESIGNATED SIZE NO. 57 AGGREGATE BELOW FULLER. BACKFILL AROUND SIDES OF PULL BOX WITH SELECT EXCAVATED MATERIAL AND THOROUGHLY COMPACT.



SPlice CLOSURE (TYP.) NOTES

NOTES

- CONTRACTOR SHALL SPlice ONLY BLUE SUB-CABLES. REMAINING SUB-CABLES SHALL BE RETAINED IN PROTECTIVE CONDUIT.
- THE COST FOR FURNISHING AND INSTALLING THE PROPOSED 12 FIBER OPTICS BROADCAST CABLE IN THE SPlice CLOSURE SHALL BE INCLUDED AS PART OF THE FIBER OPTIC CABLE INSTALLATION.
- CONTRACTOR TO COIL 10 FEET OF 12 FIBER CABLE IN PULL BOX.

UTILITY NOTES:

ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE LOCATED FROM RECORD DRAWINGS AND FIELD SURVEY. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PERTINENT UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

PLANS PREPARED UNDER THE SUPERVISION OF

Bill E. Darnell
 REGISTERED PROFESSIONAL ENGINEER R.C.E. No. 2228

Darnell & Associates, Inc.
 4111 MERCURY STREET, SUITE 200
 RAYNOR, CA 94583
 (916) 224-8773

DATE: 10/20/2012
 DRAWING NO.: 12-00-0022
 SHEET NO.: 001 OF 002

SEAL: REGISTERED PROFESSIONAL ENGINEER
 BILL E. DARNELL
 R.C.E. NO. 2228
 EXPIRES: 12/31/2015

COUNTY APPROVED CHANGES		RECORD PLAN	BENCH MARK
NO.	DESCRIPTION	DATE	DESCRIPTION

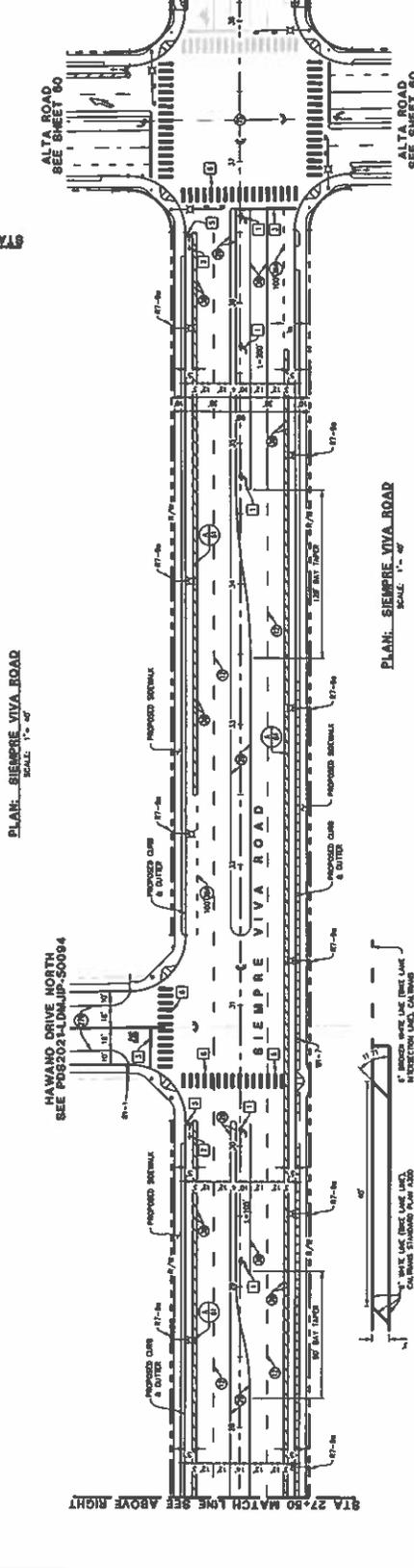
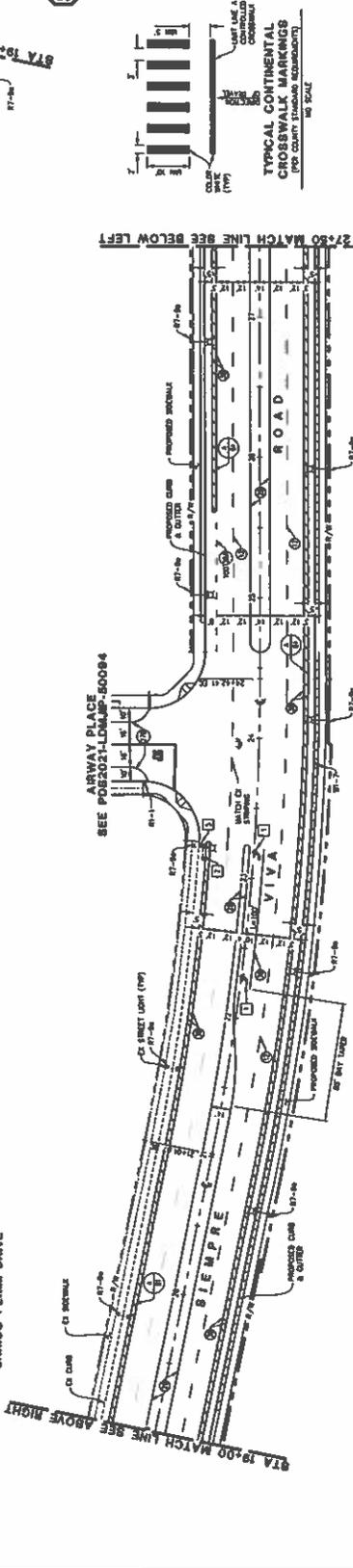
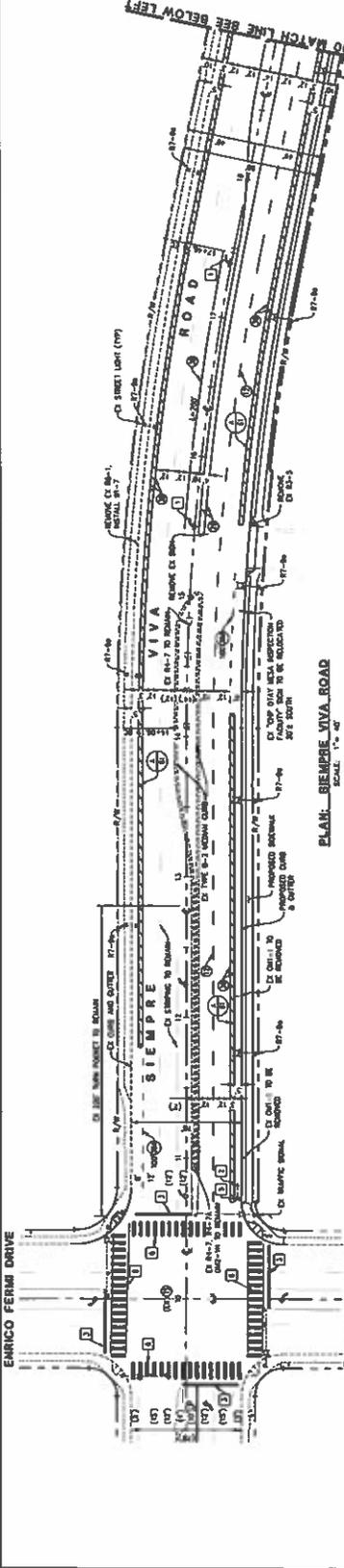
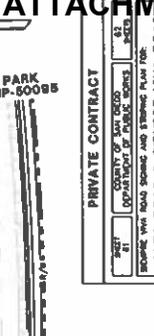
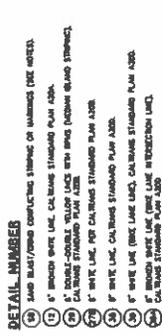
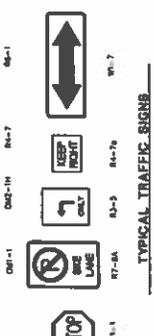
PRIVATE CONTRACT

COUNTY OF SAN DIEGO
 DEPARTMENT OF PUBLIC WORKS
 TRAFFIC SIGNAL WITH SIGNAL HEADS FOR
 IMPROVED WVA ROAD

EMERCO FERRIS DRIVE TO ALTA ROAD
 WVA ROAD
 COUNTY OF SAN DIEGO TRACT 1686 & 1688
 CALIFORNIA COORDINATE NORTH 13-1741

PROJECT: 12-00-0022
 SHEET: 001 OF 002

- SYMBOL LEGEND**
- ① - SIGNALIZED INTERSECTION
 - ② - TYPE 'B' (V) 'W' - 17' MINOR FOR CALTRANS STANDARD PLAN A2C
 - ③ - ONE LANE STRIPED, 8'6" MINOR FOR CALTRANS STANDARD PLAN A2C
 - ④ - ROAD STRIPED, SEE DETAIL CALLOUTS
 - ⑤ - ROAD C/D, STRIPED, SEE DETAIL CALLOUTS
 - ⑥ - 4' MINOR SIDE LANE, CALTRANS STANDARD PLAN A2C
 - ⑦ - 4' MINOR SIDE STRIPED, FOR CALTRANS STANDARD PLAN A2C
- STRIPING NOTES**
- SEE SHEET 80
 - SEE SHEET 80
- SIGN NOTES**
- SEE SHEET 80
 - SEE SHEET 80
- TRAFFIC CONTROL NOTES:**
- ALL TRAFFIC SIGNALS TO BE CONTROLLED BY THE COUNTY PUBLIC WORKS DEPARTMENT OF THE COUNTY OF SAN DIEGO. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION, MAINTENANCE, AND REMOVAL OF ALL TRAFFIC SIGNALS AND TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION, MAINTENANCE, AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES.



COUNTY APPROVED CHANGES

NO.	DESCRIPTION	DATE

RECORD PLAN

DATE: _____

BY: _____

STEVENS CREDIT

4666 Chesapeake Dr., Ste 200

San Diego, CA 92121

TEL: 619-591-1111

FAX: 619-591-1112

STAMP

NO. 0817

DATE: 12/15/17

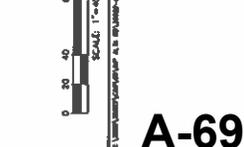
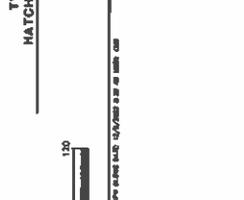
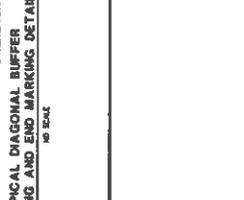
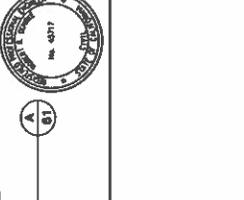
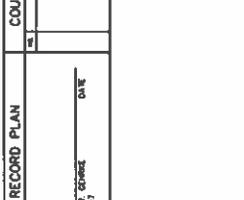
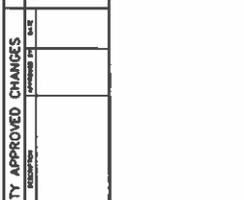


Exhibit B

Legal Description of the Property with Plat

**EXHIBIT "A"
LEGAL DESCRIPTION****PARCEL "B" (DD30306-01-02)**

That portion of Government Lot 4 conveyed to the State of California by deed recorded February 26, 1996 as Document No. 1996-0091184 in the office of the County Recorder of San Diego County in Section 31, Township 18 South, Range 1 East, San Bernardino Meridian, in the County of San Diego, State of California, according to United States Government Survey approved September 11, 1879, lying within a 51.00 foot wide strip of land, the Northerly line of said strip being the centerline of Siempre Viva Road per Easement for County Highway recorded July 01, 2002 as Document No. 2002-0553015 of Official Records [hereinafter R1], more particularly described as follows:

COMMENCING at the Southwest Corner of Government Lot 3 in said Section 31 being on the centerline of Enrico Fermi Drive;

Thence North 00°30'09" East 142.36 feet [North 00°30'12" East 142.31 feet per R1] along the Westerly line of said Lot 3 and centerline of Enrico Fermi Drive to the intersection with the centerline of Siempre Viva Road and the **TRUE POINT OF BEGINNING**;

Thence leaving said Westerly line South 89°29'40" East 406.19 feet [South 89°29'58" East 406.25 feet per R1] to the beginning of a tangent 1700.00 foot radius curve, concave Southerly;

Thence Easterly along said curve through a central angle of 11°28'42", a distance of 340.57 feet;

Thence South 78°00'58" East 355.11 feet [South 78°01'16" East 355.04 feet per R1] to the beginning of a tangent 1700.00 foot radius curve, concave Northerly;

Thence Easterly along said curve through a central angle of 09°54'35" [09°54'33" per R1], a distance of 294.03 feet [294.01 feet per R1] to the Easterly line of said Lot 3 and the **POINT OF TERMINUS**.

The Southerly sideline of said strip shall be prolonged or shortened so as to terminate in the North line of said Lot 4 and continued or shortened so as to terminate in the East line of said Lot 4.

Contains 11,770 Square Feet or 0.27 Acres, more or less.

PARCEL "C"

That portion of Government Lot 4 conveyed to the State of California by deed recorded February 26, 1996 as Document No. 1996-0091184 in the office of the County Recorder of San Diego County in Section 31, Township 18 South, Range 1 East, San Bernardino Meridian, in the County of San Diego, State of California, according to United States Government Survey approved September 11, 1879, lying Northerly and Northeasterly of the following described line:

COMMENCING at the Southwest Corner of Government Lot 3 in said Section 31 being on the centerline of Enrico Fermi Drive;

Thence South 89°38'35" East 846.76 feet along the Southerly line of said Lot 3 to the **TRUE POINT OF BEGINNING**;

Thence leaving said Southerly line South 74°38'15" East 248.39 feet;

Thence South 80°12'19" East 150.20 feet;

Thence South 84°32'06" East 150.49 feet to the Easterly line of said Lot 4 and the **POINT OF TERMINUS**.

Excepting therefrom that portion of said Lot 4 as described in the hereinabove **PARCEL "B"**.

Contains 21,608 Square Feet or 0.50 Acres, more or less.



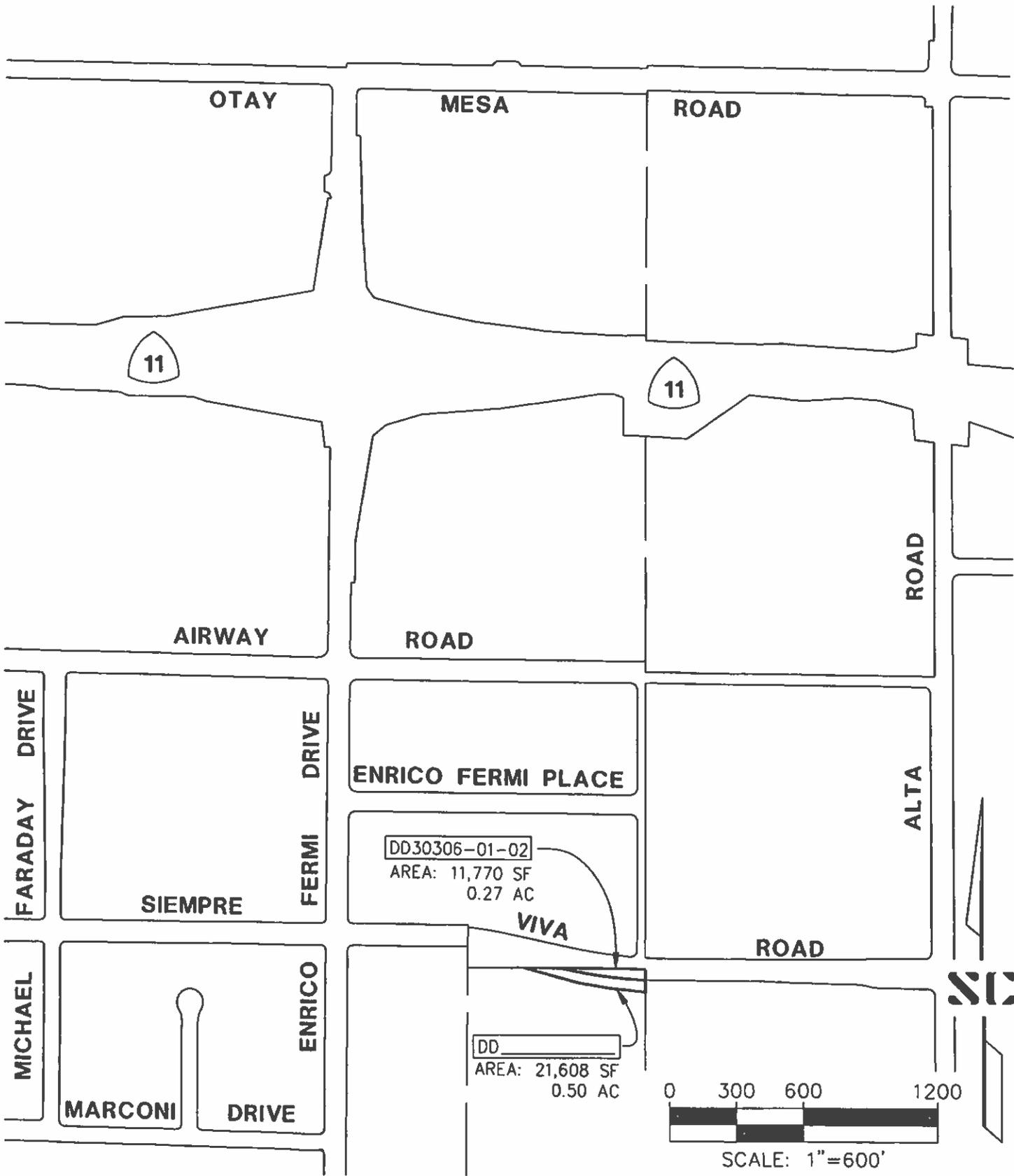
Joseph G. Cresto
PLS 8050

9/12/2022

Date



END OF LEGAL DESCRIPTION

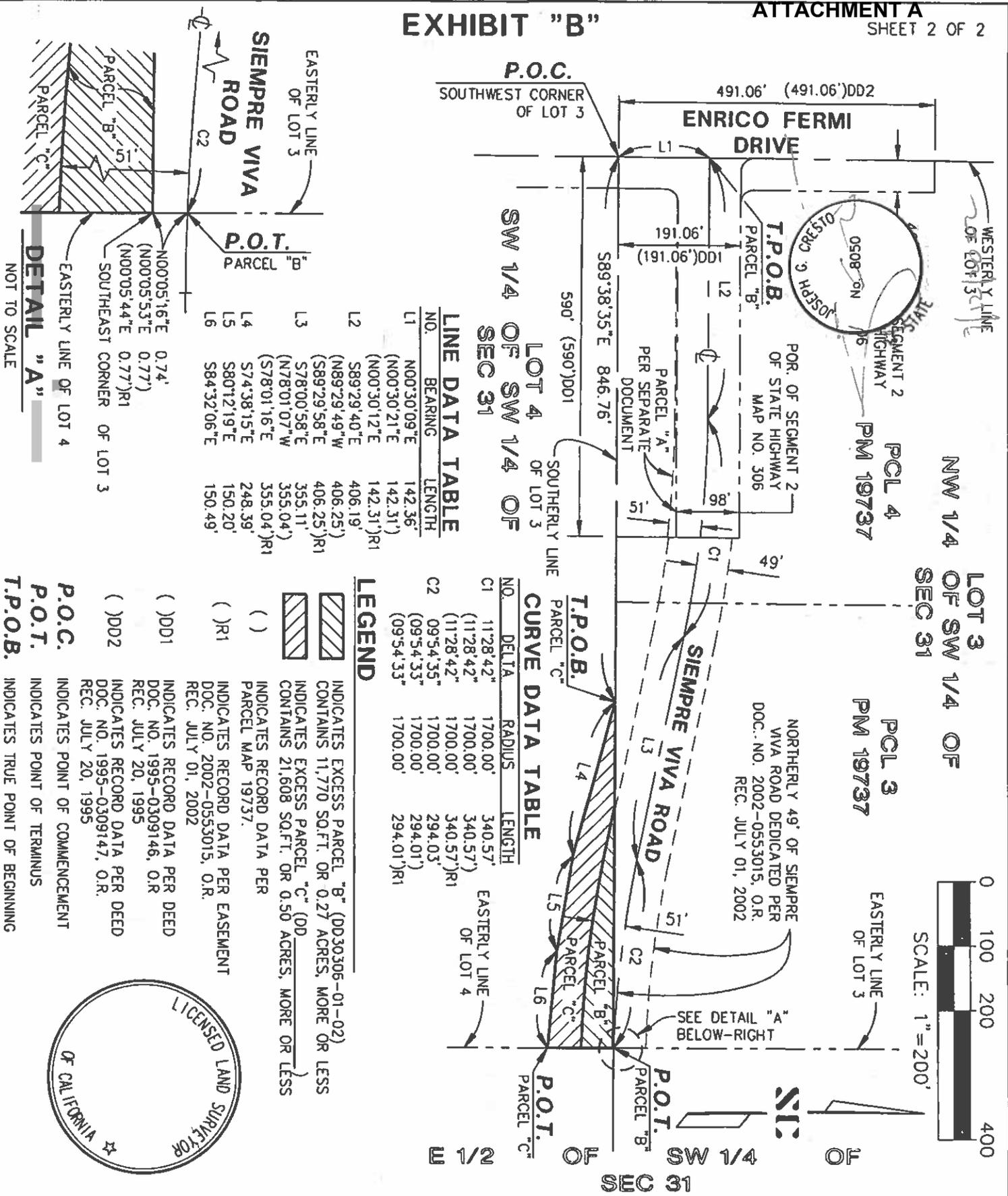


9665 Chesapeake Dr, Ste 200
 San Diego, CA 92123
 858.694.5660 stevenscrestocom

EXCESS PARCEL MAP KEY MAP
 DD30306-01-02

PORTION OF WEST 1/2 OF SOUTHWEST 1/4 OF SECTION 31
 T 18 S, R 1 E, S.B.M., COUNTY OF SAN DIEGO

EXHIBIT "B"



LOT 4 OF SW 1/4 OF SEC 31

LINE DATA TABLE

NO.	BEARING	LENGTH
L1	N00°30'09"E	142.36'
	(N00°30'21"E	142.31')
	(N00°30'12"E	142.31')
L2	S89°29'40"E	406.19'
	(N89°29'49"W	406.25')
	(S89°29'58"E	406.25')
	(S78°00'58"E	355.11')
	(N78°01'07"W	355.04')
	(S78°01'16"E	355.04')
L3	S74°38'15"E	248.39'
L4	S80°12'19"E	150.20'
L5	S84°32'06"E	150.49'
L6		

CURVE DATA TABLE

NO.	DELTA	RADIUS	LENGTH
C1	11°28'42"	1700.00'	340.57'
	(11°28'42"	1700.00'	340.57')
	(11°28'42"	1700.00'	340.57')
C2	09°54'35"	1700.00'	294.03'
	(09°54'35"	1700.00'	294.01')
	(09°54'33"	1700.00'	294.01')

LEGEND

- () DD01 INDICATES RECORD DATA PER DEED
- () DD02 INDICATES RECORD DATA PER DEED
- () DD03 INDICATES RECORD DATA PER DEED
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DETAIL "A"
NOT TO SCALE

P.O.C.
INDICATES POINT OF COMMENCEMENT

P.O.T.
INDICATES POINT OF TERMINUS

T.P.O.B.
INDICATES TRUE POINT OF BEGINNING



STEVENS
CRESTO
ENGINEERS

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San Diego, CA 92123
858.694.5660 stevenscresto.com

EXCESS PARCEL MAP
DD30306-01-02
PORTION OF WEST 1/2 OF SOUTHWEST 1/4 OF SECTION 31
T 18 S, R 1 E, S.B.M., COUNTY OF SAN DIEGO

EXHIBIT "A"
LEGAL DESCRIPTION

PARCEL "A" (DD30305-01-01)

That portion of Government Lot 3 conveyed to the State of California by deed recorded July 20, 1995 as Document No. 1995-0309146 in the office of the County Recorder of San Diego County, in Section 31, Township 18 South, Range 1 East, San Bernardino Meridian, in the County of San Diego, State of California, according to United States Government Survey approved September 11, 1879, lying within a 51.00 foot wide strip of land, the Northerly line of said strip being the centerline of Siempre Viva Road per Easement for County Highway recorded July 01, 2002 as Document No. 2002-0553015 of Official Records [hereinafter R1], more particularly described as follows:

COMMENCING at the Southwest Corner of said Lot 3 being on the centerline of Enrico Fermi Drive;

Thence North 00°30'09" East 142.36 feet [North 00°30'12" East 142.31 feet per R1] along the Westerly line of said Lot 3 and centerline of Enrico Fermi Drive to the intersection with the centerline of Siempre Viva Road and the **TRUE POINT OF BEGINNING**;

Thence leaving said Westerly line South 89°29'40" East 406.19 feet [South 89°29'58" East 406.25 feet per R1] to the beginning of a tangent 1700.00 foot radius curve, concave Southerly;

Thence Easterly along said curve through a central angle of 11°28'42", a distance of 340.57 feet;

Thence South 78°00'58" East 355.11 feet [South 78°01'16" East 355.04 feet per R1] to the beginning of a tangent 1700.00 foot radius curve, concave Northerly;

Thence Easterly along said curve through a central angle of 09°54'35" [09°54'33" per R1], a distance of 294.03 feet [294.01 feet per R1] to the Easterly line of said Lot 3 and the **POINT OF TERMINUS**.

Excepting therefrom, that portion lying within SEGMENT 2 of State Highway Map No. 306, Relinquishment No. R27226, as relinquished per document recorded March 13, 2001 as Document No. 2001-0142719 of Official Records.

The Southerly sideline of said strip shall be prolonged or shortened so as to terminate in the Southerly line of said SEGMENT 2 and continued or shortened so as to terminate in the East line of said lands conveyed to the State of California.

Contains 1,972 Square Feet or 0.05 Acres, more or less.



STEVENS
CRESTO
ENGINEERS
9665 Chesapeake Dr, Ste 200
San Diego, CA 92123
858.694.5660 stavencrestocom

EXCESS PARCEL MAP KEY MAP
DD30305-01-01
PORTION OF WEST 1/2 OF SOUTHWEST 1/4 OF SECTION 31
T 18 S, R 1 E, S.B.M., COUNTY OF SAN DIEGO

