

BEAUMONT-CHERRY VALLEY WATER DISTRICT

CONTRACT DOCUMENTS

FOR

9TH STREET AND 11TH STREET


PIPELINE REPLACEMENT PROJECT



Beaumont-Cherry Valley Water District
Attn: **Mark Swanson**
560 Magnolia Avenue
Beaumont, CA 92223
mark.swanson@bcvwd.org



Signature:

 2/6/2020

General Manager
Beaumont-Cherry Valley Water District

KEY DATES (Subject to change at discretion of District):

| | |
|---------------------------|---------------------|
| Issue Date: | February 6, 2020 |
| District Project Manager: | Mark Swanson |

**BEAUMONT-CHERRY VALLEY WATER DISTRICT
9TH STREET AND 11TH STREET PIPELINE REPLACEMENT PROJECT**

CONTRACT DOCUMENTS

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NOTICE INVITING BIDS

NOTICE INVITING BIDS Sealed bids will be received only at Beaumont-Cherry Valley Water District (Owner), 560 Magnolia Avenue, Beaumont, California, 92223 Telephone (951) 845-9581 until **2:00 p.m.** local time on **Tuesday, February 18, 2020**, for **9TH Street and 11TH Street Pipeline Replacement Project**.

WORK: The Work includes the provision of all equipment, labor, and traffic control, disinfection, and testing to install District furnished pipeline materials and appurtenances necessary to complete the construction of the following, as specified and shown in the Construction Documents:

- 9th Street Pipeline: Approximately 402 Linear Feet of 8" cement mortar lined Ductile Iron Pipe, plus various laterals, valves, connections, and appurtenances.
- 11th Street Pipeline: Approximately 205 Linear Feet of 8" cement mortar lined Ductile Iron Pipe, plus various laterals, valves, connections, and appurtenances.

The site of work is located in the City of Beaumont, County of Riverside, California.

COMPLETION OF WORK. The work shall be performed by a single contractor under a single contract. All work must be completed within 30 calendar days from Date of Award.

OBTAINING CONTRACT DOCUMENTS. A PDF copy of the complete bid package is available on the District Website at www.BCVWD.org. Alternatively, a copy of the complete bid package is available upon request from the District's Engineering Department. A charge of \$10.00 will be made for each hard copy of each bid package requested.

OPENING OF BIDS. Bids will be publicly opened and read aloud at the place and time stated above. Bidders are invited to be present. Bidders may examine the Contract Documents at Beaumont-Cherry Valley Water District, 560 Magnolia Ave., Beaumont, California, 92223.

PERIOD FOR AWARD. If Owner elects to award a contract for the Work, the award will be made within sixty (60) calendar days from the date of bid opening.

WAGE RATES. The Director of the Department of Industrial Relations has ascertained the general prevailing rate of per diem wages and the general rate of holiday and over-time work in the locality in which the work is to be performed for each craft or type of workmen needed to execute the Contract or Work as hereinafter set forth (see Labor Code 1770 et.seq.). Copies of rates are on file at the office of the Owner, which copies shall be made available to any interested party on request. The successful Bidder shall post a copy of such determinations at each job site. Attention is called to the fact that not less than the minimum salaries and all Contractors and Subcontractors shall pay wages on this Project.

LICENSING REQUIREMENTS. Bidders shall be licensed in accordance with provisions of Chapter 9, Division 3, of the Business and Professional Code of the State of California on the date and time of submittal of the bid documents and shall maintain such license until final acceptance of the work. Required classifications are: Class A, General Engineering; C-34, Pipeline Contractor. Bidders shall have verifiable experience in similar work. Bidders and their sub-contractors shall also be registered to perform public work pursuant to Section 4104 of the public contract code with the State of California, Department of Industrial Relations.

The District cannot award a public works contract to any contractor or subcontractor whose company appears on the ineligible contractor's list published by the Labor Commission, per Labor Code, Section 1777.1.

PROJECT ADMINISTRATION. All questions relative to this project prior to the opening of bids shall be directed to:

Mark Swanson
Beaumont-Cherry Valley Water District
560 Magnolia Avenue
Beaumont, CA 92223
Telephone: (951) 845-9581
Fax: (951) 845-0159

The Owner reserves the right to reject any or all Bids, to waive any informality or irregularity in any Bid and to make awards in the interest of the Owner, including award to other than the lowest bidder. The Owner reserves the right to have performed the entire Work defined by the Contract Documents or such parts of said Work as the Owner may elect, to combine various alternative bids and bid items within a Bid, and to accept or reject one or more separately scheduled bid items within a Bid. The Owner further reserves the right to withhold issuance of the Notice to Proceed, after execution of the Contract Agreement, for the period not to exceed fifteen (15) days after the date the Contract Agreement is executed. No additional payment will be made to the successful Bidder on account of such withholding.

NON-MANDATORY PRE-BID CONFERENCE. A **Non-mandatory** pre-bid conference with representatives of prospective bidders will be held at the Beaumont-Cherry Valley Water District offices, 560 Magnolia Avenue, Beaumont, California at 4:00 pm. on February 12, 2020. Prospective bidders are invited to present any relevant questions at the pre-bid conference, but insofar as practicable, questions should be prepared in written form and sent to Beaumont-Cherry Valley Water District so as to arrive not later than one (1) days prior to the **non-mandatory** pre-bid conference.

BID FORM

NAME OF BIDDER: _____

The undersigned, hereby declare that we have carefully examined the location of the proposed Work, and have read and examined the Contract Documents, including all plans, specifications, and all addenda, if any, for the following Project:

BEAUMONT-CHERRY VALLEY WATER DISTRICT

**9TH STREET AND 11TH STREET
PIPELINE REPLACEMENT PROJECT**

We hereby propose to furnish all labor, materials, equipment, tools, transportation, and services, and to discharge all duties and obligations necessary and required to perform and complete the Project for the following BASE BID TOTAL BID PRICE:

| BASE BID | BID PRICE (IN WRITTEN FORM) | BID PRICE (IN NUMBERS) |
|--|--|-----------------------------------|
| BID SCHEDULE I 9TH STREET PIPELINE REPLACEMENT | | |
| BID SCHEDULE II 11TH STREET PIPELINE REPLACEMENT | | |
| TOTAL BID PRICE (SCHEDULE I & II) | | |

In case of discrepancy between the written price and the numerical price, the written price shall prevail.

Name of Bidder _____

Signature _____

Name and Title _____

Dated _____

BID SCHEDULE I

9TH STREET WATER LINE REPLACEMENT PROJECT

Time of Completion: Thirty (30) Calendar Days (Bid Schedule I and II combined)

| ITEM NO. | DESCRIPTION OF ITEMS | EST. QUANTITY | UNIT | UNIT PRICE (FIGURES) | TOTAL AMOUNT |
|----------|---|---------------|------|----------------------|--------------|
| 101 | Furnish project insurance, and project permits (not to exceed two percent (2%) of the total bid price). | 1 | L.S. | | |
| 102 | Mobilization / Demobilization including project closeout and cleanup (not to exceed three percent (3%) of total bid price). | 1 | L.S. | | |
| 103 | State required line item for California Code Sections 6705 and 6707, excavation safety measures. | 1 | L.S. | | |
| 104 | Furnish and implement traffic control, in accordance with District prepared traffic control plans including, furnishing all signs, delineators, arrow boards, and flagmen in accordance with said plans. | 1 | L.S. | | |
| 105 | Saw cut, remove, and dispose of existing AC paving and base as required prior to trenching, provide temporary asphalt pavement patch as required at end of each day | 402 | L.F. | | |
| 106 | Install District furnished fully restrained 8" cement mortar lined potable ductile iron pipe, Class 350 to an average depth of 4.25 feet below existing roadway, including export of native material, installation of District Furnished backfill material, compaction, and compaction testing. | 402 | L.F. | | |
| 107 | Additive Bid Item: Install 8" pipe at flow line depth between 1.1' and 2.0' deeper than the 4.25 foot average depth identified under Bid Item 106 above (the incremental cost difference over Bid Item No. 106) | 40 | L.F. | | |
| 108 | Additive Bid Item: Install 8" pipe at flow line depth between 2.1' and 3.0' deeper than the 4.25 average depth identified under Bid Item 106 above (the incremental cost difference over Bid Item No. 106) | 40 | L.F. | | |
| 109 | Install District furnished 1" water service saddle, corporation stop, service lateral piping, angle meter stop, and meter box per BCVWD Standard Plate 6-3 and Plate 12. (Final Meter installation and connection to customer piping by BCVWD). | 2 | EA | | |

BID SCHEDULE I (Continued)

9TH STREET WATER LINE REPLACEMENT PROJECT

| ITEM NO. | DESCRIPTION OF ITEMS | EST. QUANTITY | UNIT | UNIT PRICE (FIGURES) | TOTAL AMOUNT |
|---|---|----------------------|-------------|-----------------------------|---------------------|
| 110 | Install (and remove at end of testing) District furnished temporary 8" bulkhead and joint restraint and 2" galvanized test and disinfection riser and appurtenances (one @ each end of pipe) | 2 | EA | | |
| 111 | Pressure test and hydrostatic leak test 8" potable water pipelines per requirements set forth in Special Requirements, District Specifications, and in accordance with AWWA Standards best practices. | 1 | L.S. | | |
| 112 | Disinfect 8" potable water pipeline per requirements set forth in Special Requirements and per AWWA Standard Specifications and flush and disinfect test water and assist District Staff with bacteriological testing. | 1 | L.S. | | |
| 113 | Remove existing 8 " gate valve at Station 10 + 00 – Beaumont Avenue Connection Point and install new District furnished 8" gate valve per BCVWD Standard Plate 2 | 1 | EA | | |
| 114 | Install new District furnished connection pipeline consisting of fully restrained 8" cement mortar lined potable ductile iron pipe, Class 350, fittings and appurtenances per Construction Drawing Sheet 2, Detail B (and disinfection of said materials), including export of native material, installation of District Furnished backfill material, compaction, testing | 1 | EA | | |
| 115 | Remove existing 8 " gate valve at Station 14 + 02± – Euclid Avenue Connection Point and install new District furnished 8" gate valve per BCVWD Standard Plate 2 | 1 | EA | | |
| 116 | Install District furnished connection pipeline consisting of fully restrained 8" cement mortar lined potable ductile iron pipe, Class 350, fittings and appurtenances per Construction Drawing Sheet 2, Detail A (and disinfection of said materials), including export of native material, installation of District Furnished backfill material, compaction, testing | 1 | EA | | |
| TOTAL BID SCHEDULE I PRICE (Bid Items 101 Through 116) | | = | | | |

BID SCHEDULE II

11TH STREET WATER LINE REPLACEMENT PROJECT

Time of Completion: Thirty (30) Calendar Days (Bid Schedule I and II combined)

| ITEM NO. | DESCRIPTION OF ITEMS | EST. QUANTITY | UNIT | UNIT PRICE (FIGURES) | TOTAL AMOUNT |
|----------|--|---------------|------|----------------------|--------------|
| 201 | Furnish project insurance, and project permits (not to exceed two percent (2%) of the total bid price). | 1 | L.S. | | |
| 202 | Mobilization / Demobilization including project closeout and cleanup (not to exceed three percent (3%) of total bid price). | 1 | L.S. | | |
| 203 | State required line item for California Code Sections 6705 and 6707, excavation safety measures. | 1 | L.S. | | |
| 204 | Furnish and implement traffic control, in accordance with District prepared traffic control plans including, furnishing all signs, delineators, arrow boards, and flagmen in accordance with said plans. | 1 | L.S. | | |
| 205 | Saw cut, remove, and dispose of existing AC paving and base as required prior to trenching, provide temporary asphalt pavement patch as required at end of each day | 205 | L.F. | | |
| 206 | Install District furnished fully restrained 8" cement mortar lined potable ductile iron pipe, Class 350 to an average depth of 4.25 feet below existing roadway, including export of native material, installation of District Furnished backfill material, compaction, testing. | 205 | L.F. | | |
| 207 | Additive Bid Item: Install 8" pipe at flow line depth between 1.1' and 2.0' deeper than the 4.25 foot average depth identified under Bid Item 206 above (the incremental cost difference over Bid Item No. 206) | 20 | L.F. | | |
| 208 | Additive Bid Item: Install 8" pipe at flow line depth between 2.1' and 3.0' deeper than the 4.25 average depth identified under Bid Item 206 above (the incremental cost difference over Bid Item No. 206) | 20 | L.F. | | |
| 209 | Install District furnished 1" water service saddle, corporation stop, service lateral piping, angle meter stop, and meter box per BCVWD Standard Plate 6-3 and Plate 12. (Final Meter installation and connection to customer piping by BCVWD). | 1 | EA | | |

BID SCHEDULE II (continued)

11TH STREET WATER LINE REPLACEMENT PROJECT

| ITEM NO. | DESCRIPTION OF ITEMS | EST. QUANTITY | UNIT | UNIT PRICE (FIGURES) | TOTAL AMOUNT |
|------------------------------------|--|----------------------|-------------|-----------------------------|---------------------|
| 210 | Install (and remove at end of testing) District furnished temporary 8" bulkhead and joint restraint and 2" galvanized test and disinfection riser and appurtenances (one @ each end of pipe) | 2 | EA | | |
| 211 | Pressure test and hydrostatic leak test 8" potable water pipelines per requirements set forth in Special Requirements, District Specifications, and in accordance with AWWA Standards best practices. | 1 | L.S. | | |
| 212 | Disinfect 8" potable water pipeline per requirements set forth in Special Requirements and per AWWA Standard Specifications and flush and disinfect test water and assist District Staff with bacteriological testing.. | 1 | L.S. | | |
| 213 | Remove existing 4" gate valve at Station 10 + 00 – Beaumont Avenue Connection Point and install new District furnished 4" gate valve per BCVWD Standard Plate 2 | 1 | EA | | |
| 214 | Install new District furnished connection pipeline consisting of fully restrained 8" cement mortar lined potable ductile iron pipe, Class 350, fittings, 4"x 8" reducer, and appurtenances per Construction Drawing Sheet 2, Detail D (and disinfection of said materials), including export of native material, installation of District Furnished backfill material, compaction, testing | 1 | EA | | |
| 215 | Cut and remove existing 4" piping as necessary at Station 12 + 05± –11 th Street and Alleyway Connection Point. | 1 | EA | | |
| 216 | Install District furnished connection pipeline consisting of fully restrained 8" cement mortar lined potable ductile iron pipe, Class 350, fittings, 4"x8" reducer, flanged x plain end spool, flex coupling adapter, appurtenances, and concrete thrust block per Construction Drawing Sheet 2, Detail C (and disinfection of said materials), including export of native material, installation of District Furnished backfill material, compaction, testing | 1 | EA | | |
| TOTAL BID SCHEDULE I PRICE | | | | | |
| (Bid Items 201 Through 216) | | | | | = |

In case of discrepancy between the unit price and the item cost set forth for a unit basis item, the unit price shall prevail and, shall be utilized as the basis for determining the lowest responsive, responsible bidder. However, if the amount set forth as a unit price is ambiguous, unintelligible or uncertain for any cause, or is omitted, or is the same amount as the entry in the "Item Cost" column, then the amount set forth in the "Item Cost" column for the item shall prevail and shall be divided by the estimated quantity for the item and the price thus obtained shall be the unit price. Final payment shall be determined by the Engineer from measured quantities of work performed based upon the unit price.

In case of discrepancy between the written price and the numerical price, the written price shall prevail.

The undersigned agrees that this Bid Form constitutes a firm offer to the District for Bid Schedule I and Bid Schedule II which cannot be withdrawn for the number of calendar days indicated in the Notice Inviting Bids from and after the bid opening, or until a Contract for the Work is fully executed by the District. The District reserves the right to award any and all combinations of Bid Schedule I and/or Bid Schedule II and/or parts thereof.

The Contract duration shall commence on the date stated in the District's Notice to Proceed, and shall be completed by the Contractor in the time specified in the Contract Documents. In no case shall the Contractor commence construction prior to the date stated in the District's Notice to Proceed.

Bidder certifies that it is licensed in accordance with the law providing for the registration of Contractors, License No. _____, Expiration Date _____, class of license _____. If the bidder is a joint venture, each member of the joint venture must include the above information.

The undersigned acknowledges receipt, understanding and full consideration of the following addenda to the Contract Documents and information required of bidders.

1. Addenda No. _____ thru _____
2. Information Required of Bidders:
 - a. Executed General Information
 - b. Executed List of Sub Contractors
 - c. Executed Non-Collusion Affidavit form
 - d. Completed Iran Contracting Act Form

I hereby certify under penalty of perjury under the laws of the State of California, that all of the information submitted in connection with this Bid and all of the representations made herein are true and correct.

Name of Bidder _____

Signature _____

Name and Title _____

Dated _____

INFORMATION REQUIRED OF BIDDER

9TH STREET AND 11TH STREET PIPELINE REPLACEMENT PROJECT

GENERAL INFORMATION

The bidder shall furnish the following information. Additional sheets may be attached if necessary.

1. Contractor's Name and Address: _____

2. Type of Firm: Individual ___
(Check one) Partnership ___
Corporation ___

3. Telephone: _____

4. Contractor's license: Classification _____ No. _____

5. Names and titles of all owners/officers of the firm:

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

6. Number of years as a contractor in construction work of this type: _____

7. Answer the three (3) questions below and submit a brief description of the character of the work previously executed as required in the Instructions to Bidders as well as the locations of the major projects, giving the year in which it was done, the manner of its execution, name, telephone number, and address of owner, overall cost when constructed, and such other information as will tend to show ability to prosecute vigorously the work required by this Specification. Attach additional sheets if necessary.

1. Have you or any of your subcontractors been determined to have committed any serious or willful violations of Part 1 (commencing with Section 6300) of Division 5 of the Labor Code during the past five (5) years? _____ If yes, explain.

2. What are the most recent workers' compensation experience modification factors for your firm and each of the proposed subcontractors?

3. Have you and each of the proposed subcontractor(s) adopted injury prevention programs under Section 3201.4 or 6401.7 of the California Labor Code?

8. Person who inspected site of the proposed work for your firm:

Name: _____ Date of Inspection: _____

9. Proposed Project Manager

Name: _____

Qualifications: _____

10. NOTE: If required by the Owner, the bidder shall furnish a notarized financial statement, references, resume of superintendent, and other information sufficiently comprehensive to permit an appraisal of his current financial condition.

INFORMATION REQUIRED OF BIDDER

9TH STREET AND 11TH STREET PIPELINE REPLACEMENT PROJECT

LIST OF SUBCONTRACTORS

The bidder shall list below the name and business address of each subcontractor who will perform work under this contract in excess of one-half percent of the total bid price and shall also list the portion of the work which will be done by such subcontractor. After opening proposals, no changes or substitutions will be allowed without the written approval of the Owner.

Aggregate total of all subcontractors shall not exceed fifty percent (50%) of the total contract price.

1. Subcontractor's Name & Address:

Work to be performed:

2. Subcontractor's Name & Address:

Work to be performed:

3. Subcontractor's Name & Address:

Work to be performed:

4. Subcontractor's Name & Address:

Work to be performed:

5. Subcontractor's Name & Address:

Work to be performed:

6. Subcontractor's Name & Address:

Work to be performed:

7. Subcontractor's Name & Address:

Work to be performed:

8. Subcontractor's Name & Address:

Work to be performed:

INFORMATION REQUIRED OF BIDDER

9TH STREET AND 11TH STREET PIPELINE REPLACEMENT PROJECT

NON-COLLUSION AFFIDAVIT

STATE OF CALIFORNIA

COUNTY OF _____

}

NON-COLLUSION AFFIDAVIT

_____, being first duly sworn, deposes and says that
(Name of Affiant)

he/she is _____ of _____
(Title) (Name of Bidder)

the party making the foregoing bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

(Signature)

(Typed Name)

State of _____ }
County of _____ } ss.

Subscribed and sworn to (or affirmed) before me on this _____ day of _____, 20____, by _____, proved to me on the basis of satisfactory evidence to be the person/persons who appeared before me.

(SEAL)

Notary Public

Commission Expires: _____

BEAUMONT-CHERRY VALLEY WATER DISTRICT

**9TH STREET AND 11TH STREET PIPELINE
REPLACEMENT PROJECT**

DRAFT CONTRACT FOR PUBLIC WORKS

(CONTRACTOR WILL BE REQUIRED TO EXECUTE CONTRACT)

BEAUMONT-CHERRY VALLEY WATER DISTRICT

CONTRACT FOR PUBLIC WORK

1. Parties and Date

This Contract is entered into this ____ day of _____, 2020, between the BEAUMONT-CHERRY VALLEY WATER DISTRICT, a California Irrigation (Special) District ("District"), and _____ ("Contractor"), for the Work described as follows: 9th Street and 11th Street Pipeline Replacement.

2. Consideration

In consideration of the mutual covenants hereinafter contained, District and Contractor agree to comply with the terms of this Contract and to faithfully perform their duties hereunder.

3. Duties of Contractor

3.1 Contractor agrees to furnish all labor, tools, and equipment necessary to complete the work hereinafter described. Contractor hereby guarantees that all work to be performed by it hereunder will be performed in a good and workmanlike manner. The Work to be performed by Contractor is described on the Construction Drawings and Specifications included herein attached hereto and by this reference incorporated herein. Pursuant to Public Contract Code Section 3300, Contractor shall possess an active and current Contractor's License, Class A or C-57, which shall be maintained throughout the term of this Contract.

3.2 Contractor shall complete all work required herein on or before **March 30, 2020.**

3.3 Contractor shall furnish District with labor ~~and material~~ releases from all subcontractors performing work on, ~~or furnishing materials for~~, the job prior to final payment by District.

3.4 **(Section 3.4 Not Required)** ~~Contractor shall furnish a performance bond in the amount of the full contract price, a payment bond in the amount of 50% of the full contract price, and a maintenance bond in the amount of the full contract price issued in forms consistent with industry standards by United States Treasury authorized bonding companies as approved by District, prior to commencement of the Work. Bonds shall be furnished on the forms attached at the back of this Contract, if Additive Bid Item is exercised. Contractor hereby guarantees that all materials and workmanship furnished by him under the Contract will meet fully all requirements thereof as to quality or workmanship and of materials furnished by him. Contractor hereby agrees to replace all materials and pay for all installation costs made necessary by defects in materials or workmanship supplied by him that become evident within twelve (12) months after the date of final payment and to pay for all~~

~~work necessary to remove, restore, and replace the materials to full serviceability and to full compliance with the requirements of the Contract, including the test requirements for any part of the materials furnished hereunder which, during said twelve (12) month period, are found to be deficient with respect to any provision of the Contract. Contractor also agrees and does hereby hold District harmless from claims of any kind which may arise from injury or damage due to said defects. Contractor shall replace all defective materials promptly upon receipt of written orders for same from District. If Contractor fails to replace all defective materials promptly, District may secure the service of others to do this work, and Contractor and his surety shall be liable to District for the cost, including removal and replacement thereof. The guarantees, indemnifications and agreements set forth above shall continue to be secured following completion of the project by Contractor providing a maintenance bond in the amount of 100% of the full contract price on a form commonly used in the industry and acceptable to the District, and for this purpose said bond shall remain in force for a period of one (1) year after the date of the final payment.~~

3.5 Copies of the prevailing rate of per diem wages for each craft, classification or type of worker needed to execute this Contract are available to interested parties upon request. If the total amount of this Contract is \$1,000 or more, Contractor agrees to pay such prevailing rates to each workman needed to execute the work required under this Contract and further agrees to comply with the penalty provisions of Section 1775 of the Labor Code in the event of its failure to pay prevailing rates. Pursuant to Section 1727 of the Labor Code, all wages and penalties withheld for failure of Contractor to pay such per diem wages shall be transferred by District to the State Labor Commissioner for disbursement, should Contractor fail to bring suit for recovery within ninety (90) days after completion of the Contract or acceptance of the work.

3.6 Contractor shall pay travel subsistence payments to each workman needed to execute the work, as such travel and subsistence payments are defined in the applicable collective bargaining agreements filed in accordance with Section 1773.8 of the Labor Code.

3.7 When Contractor employs workmen in an apprenticeable craft or trade, Contractor shall comply with the provisions of Section 1777.5 of the Labor Code with respect to the employment of properly registered apprentices upon public works. The primary responsibility for compliance with said section for all apprenticeable occupations shall be with Contractor.

3.8 Contractor is advised that eight (8) hours labor constitutes a legal day's work. Pursuant to Section 1813 of the Labor Code, Contractor shall forfeit a penalty of \$25.00 per worker for each day that each worker is permitted to work more than eight (8) hours in any one calendar day and forty (40) hours in any one calendar week, except when payment for overtime is made at not less than one and one-half (1-1/2) times the basic rate for that worker.

3.9 In accordance with the requirements of Labor Code Section 1776, Contractor shall keep accurate payroll records on forms provided by the Division of Labor Standards Enforcement,

or keep payroll records containing the same information required by such forms, and shall make any such records available for inspection.

3.10 Contractor shall keep himself fully informed of all laws and regulations in any manner affecting the performance of the Contract work, and shall indemnify District and District's agents against any liability arising from violation of any such law or regulation.

3.11 Contractor shall at its own expense maintain at least the following insurance coverages throughout the performance of this Contract:

(a) Worker's compensation insurance coverages for all persons employed or to be employed in the performance of this Contract, which insurance shall at all times be maintained in strict accordance with the requirements of the current California Worker's Compensation Insurance Laws.

(b) General commercial liability insurance coverage of at least \$2,000,000 per occurrence and \$2,000,000 general aggregate insuring Contractor and naming District as an additional insured for all claims for bodily injury, personal injury and property damage, arising out of or in connection with any operations under this Contract.

(c) Automobile liability insurance coverage with a limit of liability of \$1,000,000 per accident Combined Single Limit.

(d) Course of construction insurance with a limit of liability equal to the full contract amount, unless waived in writing by District.

Prior to commencement of any work under this Contract, Contractor shall obtain and furnish to District a Certificate of Insurance as to each type of insurance required, which certificate shall be on the form provided to Contractor by District.

3.12 Contractor shall be responsible for all loss and damage which may arise out of the nature of the work agreed to herein, or from the action of the elements, or from any unforeseen difficulties which may arise or be encountered in the prosecution of the work until same is fully completed and accepted by District. However, Contractor shall be responsible for damage proximately caused by an act of God within the meaning of Section 4150 of the Government Code only to the extent of five percent (5%) of the contract amount.

3.13 Contractor shall indemnify and hold harmless District, its agents and employees, from and against all claims, damages, losses and expenses, including attorney's fees, arising out of or resulting from performance of work under this Contract and which are attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property, including the loss of use resulting therefrom, caused in whole or in part by any negligent or willful act or omission of the Contractor or anyone directly or indirectly employed by him or for whose acts he may be liable.

3.14 Contractor shall be responsible for securing and paying for all permits and licenses necessary to perform the work described herein.

3.15 If the work entails trenching of five (5) feet or more in depth, Contractor shall make adequate provisions for shoring, bracing, sloping, or other protection from the hazard of caving ground.

3.16 As required by Public Contract Code Section 7104, Contractor shall promptly, and prior to disturbance of conditions, notify District of (a) any material discovered in excavation that Contractor believes to be a hazardous waste that is required to be removed to a Class I, Class II, or Class III disposal site; (b) subsurface or latent physical conditions at the site differing from those indicated by District; and (c) unknown physical conditions of an unusual nature at the site, significantly different from those ordinarily encountered in such contract work. Upon notification, District will promptly investigate the conditions to determine whether a change order is appropriate. In the event of a dispute, Contractor shall not be excused from any scheduled completion date but will retain all rights provided by the Contract or by law for resolving the dispute.

4. District's Responsibilities

4.1 As consideration for performance of the work required herein, District agrees to pay Contractor the total contract amount of _____, (\$ _____), provided that such amount shall be subject to adjustment pursuant to written change orders signed in advance by District.

4.2 Contractor shall submit progress payment invoices to District at the end of each calendar month during the term of the Contract. All progress payment invoices shall be subject to approval by the District prior to payment by the District. Such progress payment invoices shall be made in accordance with Section 20104.50 of the California Public Contract Code, requiring District to make a determination of suitability of the payment request within seven (7) days of receipt of such request and further requiring District to make payment on properly submitted progress payment invoices within thirty (30) days in order to avoid interest payments to the Contractor upon such amounts.

4.3 When the Contractor determines that he has completed the work required herein, Contractor shall so notify District in writing and shall furnish all labor and material releases required by Section 3.3 of this Contract. District shall thereupon inspect the work and, if acceptable, shall pay to Contractor the contract price, less any amount which District may be authorized or directed by law to retain. Payment of retention proceeds due to Contractor shall be made no later than sixty (60) calendar days after such final acceptance by District, in accordance with Section 7107 of the California Public Contract Code. Contractor is hereby alerted to provisions of Section 7107 of the California Public Contract Code, requiring Contractor to pay each of its subcontractors from whom retention has been withheld, each subcontractor's share of the retention received, within ten (10) calendar days from the time that all or any portion of such retention proceeds are received by Contractor from District. District will allow Contractor to substitute qualified securities, deposited with District or a qualified escrow agent, in lieu of contract retentions in accordance with provisions of California Public Contract Code, Section 22300. The escrow agreement used in such instance shall be substantially similar to that

form set out in Section 22300 of the Public Contract Code. District will provide this form to the Contractor upon request.

4.4 To the extent required by Section 4215 of the Government Code, District shall compensate Contractor for the costs of locating and repairing damage to underground utility facilities not due to the failure of Contractor to exercise reasonable care, and removing or relocating underground utility facilities not indicated in the construction drawings and for equipment necessarily idled during such work. Contractor shall not be assessed liquidated damages for delay caused by failure of District to provide for removal or relocation of such utility facilities.

5. Contractual Relationship

It is expressly agreed that Contractor is an independent contractor, and neither Contractor nor any of its employees shall be deemed employees of District. Contractor shall have full supervision over all workers on the job, including equipment, drivers, and operators, and neither District nor any of District's agents shall be held responsible for any action of Contractor under this Contract. Should any question arise regarding the meaning or import of any of the provisions of this Contract or written or oral instructions from District, the matter shall be referred to District's General Manager, whose decision shall be binding upon Contractor.

6. Assignment Forbidden

Contractor shall not assign or transfer this Contract or any right, title or interest herein without the prior written consent of District. If contractor attempts an assignment of this Contract or any right or interest herein, District may, at its option, terminate and revoke the Contract and shall thereupon be relieved from any and all obligations to Contractor or his assignee or transferee.

7. Time of Essence

Time is of the essence in the performance of this Contract. Contractor will be assessed liquidated damages in the amount of \$500.00 per calendar day for each day of unauthorized delay in completing performance.

8. Termination

This Contract may be terminated by District at any time by giving Contractor seven (7) days advance written notice. In the event of termination by District for any reason other than the fault of the Contractor, District shall pay Contractor for all work performed up to that time as provided herein. In the event of breach of the Contract by Contractor, District may terminate the Contract immediately without notice, may reduce payment to the Contractor in the amount necessary to offset District's resulting damages, and may pursue any other available recourse against Contractor.

9. **Dispute Resolution**

Any separate demand by Contractor for the payment of money or damages shall be resolved in accordance with Public Contract Code Sections 20104 et seq., if they apply. Copies of those sections are available upon request and by this reference are incorporated herein.

10. **Attorney's Fees and Costs**

If any action is necessary to enforce or interpret the terms of this Contract, the prevailing party shall be entitled to recover from the losing party attorney's fees in an amount determined to be reasonable by the court, together with costs and necessary disbursements.

11. **Notices**

Any notice required to be given under the terms of this Contract shall be sufficient and complete upon depositing the same in the United States mail, with postage prepaid and addressed as follows:

| | |
|------------------------------|--------------------------|
| <u>DISTRICT</u> | <u>Contractor</u> |
| Beaumont-Cherry Valley Water | _____ |
| District | _____ |
| P.O. Box 2037 | _____ |
| 560 Magnolia Avenue | _____ |
| Beaumont, CA 9223 | _____ |

12. **Counterparts**

This Contract shall be executed in two (2) counterparts, each of which shall constitute an original.

13. **Certification of License**

Contractor certifies that as of the date of execution of this contract, Contractor has a current contractor's license of the classification indicated below Contractor's signature hereto.

IN WITNESS WHEREOF, each of the parties has caused this Contract to be executed on the day and year first above written.

(Contractor)

By: _____

Title: _____

Contractor's License Number & Classification

ATTEST:

Secretary

BEAUMONT-CHERRY VALLEY
WATER DISTRICT

By: _____
Daniel K. Jagers
General Manager

ATTEST:

Lona Williams
Secretary to the Board

CERTIFICATION

LABOR CODE – SECTION 1861

I, the undersigned Contractor, am aware of the provisions of Section 3700 et seq. of the Labor Code which requires every employer to be insured against liability for Worker's Compensation or to undertake self-insurance in accordance with the provisions of the Code, and I, the undersigned Contractor, agree to and will comply with such provisions before commencing the performance of the work of this Contract.

Contractor

By: _____

Title: _____

BEAUMONT-CHERRY VALLEY WATER DISTRICT

9TH STREET AND 11TH STREET PIPELINE REPLACEMENT PROJECT

SPECIAL REQUIREMENTS

**BEAUMONT-CHERRY VALLEY WATER DISTRICT
9th STREET AND 11TH STREET PIPELINE REPLACEMENT PROJECT**

SPECIAL REQUIREMENTS

These Special Requirements set forth requirements for work related to the replacement of Beaumont-Cherry Valley Water District water facilities (i.e. pipelines and appurtenances).

SR-01 Contract Documents, Specifications, and Drawings The Contractor shall recognize and acknowledge the condition that Bid Schedule I and II shall include all work activities necessary to install the new pipelines, water services and appurtenances identified on the Contract Plans and abandon existing pipelines and associated water services being replaced and that there will be no additional compensation from the Owner for the completion of said work.

SR-02 District Standard Specifications Work shall be completed in accordance with the Beaumont-Cherry Valley Water District "District Standards for the Furnishing of Materials and Construction of Water and Recycled Water Facilities and Preparation of Water System Plans." Copies of said standards are available at the District website: www.bcvwd.org and specific referenced Standard Drawings are included at the back of this specification.

SR-03 Contract Drawings

The following Beaumont-Cherry Valley Water District Drawings are made a part of these Contract Documents:

**Beaumont-Cherry Valley Water District Construction Drawings (24" x 36")
Titled: 9th Street and 11th Street Pipeline Replacement Project**

| <u>Title</u> | <u>Sheet No.</u> |
|--|------------------|
| Title, Sheet Index, Vicinity Map, and Construction Notes | 1 |
| 9 th Street: Station 10 + 00 to Station 14 + 05± | 2 |
| 11 th Street: Station 10 + 00 to Station 12 + 09± | 2 |

**Beaumont-Cherry Valley Water District Traffic Control Plan Drawing (24" x 36")
Titled: Traffic Control Plans for 9th Street and 11th Street**

| <u>Title</u> | <u>Sheet No.</u> |
|---------------------------------------|------------------|
| Title, Vicinity Map, Legend and Notes | 1 |
| Typical Traffic Control Plan Setup | 2 |

**Beaumont-Cherry Valley Water District Standard Drawings (8-1/2" x 11")
(Bound at the Back of these Technical Provisions)**

| <u>Title</u> | <u>Plate No.</u> |
|-------------------------------------|----------------------------------|
| Water Sewer Separation Requirements | Plate D4-1, D4-2, D4-3, and D4-4 |
| Standard Fire Hydrant | Plate 1 |
| Gate Valve/Valve Can Installation | Plate 2 |
| Trench Detail | Plate 6-1 |
| Service Trench Detail | Plate 6-2 |
| 1" Service Line Detail | Plate 6-3 |

2" Service Line Detail
Flexible Coupling Tie Details
Thrust Block Details
Meter Box Installation

Plate 6-4
Plate 9
Plate 11-1 to 11-2
Plate 12

SR-04 Special Work Requirements At the end of every workday, the Contractor shall completely backfill and compact all open pipeline and water service trenches. No trench shall be left open after work hours without special approval of the District and the City of Beaumont.

SR-05 Scope of Work Under these Specifications the Contractor shall furnish all labor and equipment to complete Construction of the 9th Street and 11th Street Pipeline Replacement Project in accordance with the Contract Documents (plans and specifications). Work generally consists of installing District furnished materials and appurtenances necessary to construct new pipelines, saddles, corporation stops, and service lateral runs to existing water meter installations installed in or behind existing sidewalks, test and disinfect said pipeline and service installations, and connecting those installations to existing pipeline points of connections and water meters as further described hereafter and as shown on the Construction Drawings.

A brief scope description of work to perform as shown on the contract drawings is as follows:

NOTE: Quantities provided below are approximate. Bidders are responsible to verify actual quantities from the detailed design drawings to accurately calculate quantity take-offs.

General Description of 9th Street Pipeline Replacement Project work activities:

- Install approximately **402 linear feet** of District furnished ductile iron pipeline materials and appurtenances as shown on the Construction Drawings, install temporary bulkheads and test risers, pressure and leak test and disinfect said new pipeline and make subsequent connections to 9th Street points of connection located at Euclid Avenue and Beaumont Avenue including existing valve replacement at points of connection.
- Install District furnished 1" service saddle(s) and corporation stop(s) per BCVWD Standard Drawing 6-1 for new service lateral locations as shown on the Construction Drawings.
- Install District furnished, 1" water service lateral(s) and new angle meter stop(s) on new pipeline per Standard Drawings 6-1, 6-2 and 6-3 (excluding meter(s)). Upon completion and testing of new water main abandon existing service and disconnect existing service and angle meter stop from existing water meter and connect new service and new angle meter stop to new District furnished water meter located in sidewalks, behind curb, and/or in right of way.
- After the new water laterals are installed and service is restored to the water meter, abandon the existing service lateral(s).
- Relocate existing water service(s) as shown on the Construction Drawings, including all coordination of said relocation with BCVWD.
- Disinfect all potable water pipelines, appurtenances, and water service piping and appurtenances (per AWWA Standard).
- Provide Water District customer notifications (letters and door-hangers) detailing water pipeline installation and replacement water service installation.
- Some meter boxes and lids are damaged and require replacement. Said items will be furnished by the District on an as needed basis and shall be replaced as needed in accordance with District Standards.
- Contractor shall coordinate with District and City staff to ensure disruption of water service to each connection is minimized.

General Description of 11th Street Pipeline Replacement Project work activities:

- Install approximately **205 linear feet** of District furnished ductile iron pipeline materials and appurtenances as shown on the Construction Drawings, install temporary bulkheads and test risers, pressure and leak test and disinfect said new pipeline and make subsequent connections and install flex coupling adapter and concrete thrust block to 11th Street point of connection located at westerly point of connection in 11th Street and also connection at Beaumont Avenue, including existing valve replacement at easterly point of connection.
- Install District furnished 1" service saddle(s) and corporation stop(s) per BCVWD Standard Drawing 6-1 for new service lateral locations as shown on the Construction Drawings.
- Install District furnished, 1" water service lateral(s) and new angle meter stop(s) on new pipeline per Standard Drawings 6-1, 6-2 and 6-3 (excluding meter(s)). Upon completion and testing of new water main abandon existing service and disconnect existing service and angle meter stop from existing water meter and connect new service and new angle meter stop to new District furnished water meter located in sidewalks, behind curb, and/or in right of way.
- After the new water laterals are installed and service is restored to the water meter, abandon the existing service lateral(s).
- Relocate existing water service(s) as shown on the Construction Drawings, including all coordination of said relocation with BCVWD.
- Disinfect all potable water pipelines, appurtenances, and water service piping and appurtenances (per AWWA Standard).
- Provide Water District customer notifications (letters and door-hangers) detailing water pipeline installation and replacement water service installation.
- Some meter boxes and lids are damaged and require replacement. Said items will be furnished by the District on an as needed basis and shall be replaced as needed in accordance with District Standards.
- Contractor shall coordinate with District and City staff to ensure disruption of water service to each connection is minimized.

SR-06 Water Pipeline Installation and Water Service Connections The Contractor shall notify the District one (1) week in advance of the planned water pipeline and water service installation work and also provide 48 hour and 24 hour advance confirmation of when the work will be performed.

Contractor shall be responsible for dewatering, de-chlorination, and disposal of all water from all testing/flushing activities. Discharge of all water must abide by the District's NPDES permit which limits total residual chlorine to a maximum concentration of 0.1 mg/l.

Contractor shall also protect existing water pipelines and residential and commercial services from contamination during water service installation and connection procedures. Contractor shall disinfect all water pipelines, new water services and appurtenances, pipeline closure materials (tie-in materials) and the existing pipeline at connection points per AWWA Section C- 651. All costs associated with connections to existing water pipelines shall be included in the appropriate bid item.

Sequence of Disinfection for New Water Pipeline and Service Laterals, Facilities, and Appurtenances: The new pipeline and water service laterals, facilities, and appurtenances shall be disinfected only after all of the new water pipeline and service lateral and appurtenances are installed.

- **EXISTING WATER SERVICE LATERALS MUST BE KEPT IN SERVICE UNTIL NEW DOMESTIC WATER SERVICE LATERALS ARE INSTALLED AND CONNECTED TO THE EXISTING SERVICE.**

SR-07 Reference to District's Standard Drawings and Detailed Provisions Any and all referenced "District Standards for the Furnishing of Materials and Construction of Water and Recycled Water Facilities and Preparation of Water Plans" shall be considered part of the contract drawings and specifications. All referenced Standard Drawings and Standards of the District are available from the District upon request or on the District's website at www.bcvwd.org. The Contractor shall not be entitled to any compensation due to referenced documents not included in the Specifications and Contract Drawings.

SR-08 Construction Soils Compaction Tests Upon Contractor's request, the District's consultant will provide soil/compaction testing for the project. However, any cost of re-compaction due to the Contractor's negligence will be at the Contractor's expense. A 48-hour notice is required for soil services.

SR-09 Coordination The Contractor should take note that other work may be taking place simultaneously at the jobsite as part of a concurrent City of Beaumont Street Improvement Project taking place in the vicinity of the District project. It shall be the Contractor's responsibility to coordinate his activities with all other contractors performing work in the project area and to cooperate with all other contractors within reasonable and professional norms so that all construction may be completed in a timely manner. In the event a scheduling conflict arises between contractors performing work on the job site and if both parties are unable to reach an agreement, the City and/or the District shall be the final authority in resolving said scheduling conflict. No additional compensation will be allowed due to conflicts with other construction in the area.

SR-10 Existing Underground Utilities and Potholing for Existing Utilities Unless otherwise indicated on the plans or directly by the utility owner, all utilities shall be protected in place and service maintained as part of the project work. The existing and proposed water pipeline alignments, water service lateral alignments and known utilities are plotted on the plan view of the plans. Contractor shall notify USA (Dig alert) of identified project area, and pothole all existing utilities and points of connection, and protect in place all points of connections, water service crossings and utilities affected by the proposed water pipeline and water service lateral installations.

The Contractor is responsible for performing exploratory excavations (potholing) along the alignment of the project to confirm location of existing utilities and to establish water service lateral installation requirements to existing pipelines and water meters. **The Contractor is hereby granted permission to use vacuum excavation on BCVWD facilities. Vacuum excavations may not be used on any other facilities unless written permission is obtained from the owner of the facility in accordance with State Law 4216.** The Contractor shall field survey the elevation and location of utilities, including tie-in points, and verify no conflict exists between existing utilities and new water service laterals. All associated costs with potholing shall be included in the unit bid price of water service laterals stated in the Bid Schedule and no additional compensation will be allowed.

SR-11 Provisions for Securing of Trenches and Continuous access All trenches within the street right-of-way must be backfilled at the end of each workday per the City of Beaumont

Encroachment Permit requirements. The Contractor will be required to provide complete unobstructed access to each resident's driveway at the end of every workday. The Contractor will be required to provide complete unobstructed access to each commercial property at all times during construction.

The Contractor will be responsible for notifying the residents 72 hours in advance that construction activities will occur in front of their residence and that their driveways may be blocked for short durations by these construction activities.

The cost of securing trenches and providing continuous access shall be included in the Contractor's bid and no additional compensation will be allowed.

SR-12 Preservation of Existing Improvements, Restoration of Work Site and Disposal of Spoil and Waste Materials

- A. Contractor shall perform his operations so that existing improvements (including roads and other paved surfaces adjacent to or in the vicinity of the work site) are not damaged. Contractor shall repair and restore any disturbed or damaged private or public improvements, which results from his operations (except that which is specifically a part of the Contract Work) to the satisfaction of the District, or the agency having jurisdiction over said improvements, all at the Contractor's expense.
- B. All work sites shall be restored to pre-job conditions and shall meet the requirements of the District and property owner.
- C. Contractor shall be responsible for the proper disposal of all waste materials resulting from his operations, including rubbish, packaging materials, discarded equipment parts, and damaged construction materials, in a manner and at locations suitable to the District and all health and other regulatory agencies.

SR-13 Replacing Existing Valve Cans After the street improvements have been completed, valve cans over the existing valves shall be replaced to match the new pavement section in accordance with the City of Beaumont's Project Construction Drawings and Specifications.

SR-14 Owner Furnished, Contractor Installed Items The District will furnish the following item(s) to be installed by the Contractor for water meter boxes that require replacement:

- 8" Class 350 Ductile Iron Pipe, restrained joint gaskets and appurtenances
- 8" Class 350 Ductile Iron flanged and mechanical joint fittings, restrained joint gaskets and/or EBAA Iron Series 1100 restraint systems and all gaskets, bolts and necessary appurtenances
- All water meter service saddles, corporation stops, service line copper and polypropylene sleeves, angle meter stops, and appurtenances
- All water meter boxes (as required)
- All water meters and AMR Radios
- All water meter box lids (as required)

The Contractor shall coordinate delivery of all materials and appurtenances with District Staff and shall also request water meter boxes, lids, and meters a minimum of 48 hours prior to the time they are needed for installation and the District will deliver said items to the project site. The Contractor shall complete a Meter Change-Out Form as described in these special conditions.

SR-15 Records of Construction Contractor shall keep and maintain, at the job site, one record set of Construction Drawings.

SR-16 Protection of Buried Metal Appurtenances All metal appurtenances including water service laterals shall be taped or polyethylene encased.

SR-17 Local Conditions The Contractor shall assess, by personal investigation, local conditions affecting the work. Neither the information contained in this section nor that derived from any maps or plats, or from the District or employees shall act to relieve the Contractor of any responsibility herein or from fulfilling any and all of the terms and requirements of this Contract. Contractor is further notified that a portion of the water meter boxes are located in concrete sidewalks. The Contractor shall protect said sidewalks in place or remove and replace panels of said concrete as necessary to install the new water service lateral piping.

Nuisance water, such as rainfall, irrigation water, or local surface runoff may occur within construction areas during the period of construction under this Contract. The Contractor, by submitting his bid, will be held responsible for having investigated the risks arising from such water and shall take all due measures to prevent delays in progress of the work caused by such waters. All costs associated with coordination of work with regards to local conditions, including nuisance water, shall be included in the bid and no additional compensation will be allowed. The cost of this Work, including permits and retention of licensed subcontractors, shall be included in the appropriate bid item and no additional compensation will be allowed.

SR-18 Shutdown Requirements, Work Restrictions and Operations Coordination Contractor shall coordinate the shutdown operation of existing systems with the District. No work shall be performed without 2 week prior notice followed by forty-eight (48) hour prior and twenty-four (24) hour confirmation notices to the District. No shutdown work shall be done without a District representative present.

SR-19 Replacement of Pre-Existing Damaged Meter Boxes and Lids Contractor shall protect meter boxes in-place during construction. However, the District will supply the Contractor with replacement boxes and lids for pre-existing damaged boxes and lids. For bidding purposes, the Contractor shall assume all water meter boxes and lids will require replacement with District furnished water meter boxes.

SR-20 Utility Service Lines There are existing individual utility services and service crossings such as water, sewer, gas, electric, telephone and cable TV. The Contractor shall pothole and locate all individual utility services prior to construction

SR-21 Contractor Coordination with City of Beaumont Contractor shall coordinate water pipeline installation and water service lateral replacement installation with City of Beaumont's street improvement project as necessary.

SR-22 Customer Notification Door-Hanger Contractor shall place door-hanger notices for every Customer prior to construction. The door-hanger shall be double sided; one side for English language and the other side for Spanish language. The Contractor shall provide contact information for questions and a brief description of the water service lateral installation work and temporary breaks of service during said work activities.

BEAUMONT-CHERRY VALLEY WATER DISTRICT

9TH STREET AND 11TH STREET PIPELINE REPLACEMENT PROJECT

BASIC/TECHNICAL SPECIFICATIONS

SECTION 01000
GENERAL REQUIREMENTS

1. Definitions

Whenever the terms herein defined occur in these Specifications or other related documents, they shall have the meanings here given.

- a. "District" or "Owner" shall mean the BEAUMONT-CHERRY VALLEY WATER DISTRICT 560 Magnolia Avenue, Beaumont, CA 92223, its Manager, and any other person or persons designated by the Owner to act on its behalf.
- b. "Manager" shall mean the person designated by the Board of Directors of the BEAUMONT-CHERRY VALLEY WATER DISTRICT to have charge, supervision, and administration of said Owner.
- c. "Contractor" shall mean the person, firm, or corporation responsible for the construction of facilities and improvements or any portions thereof to be integrated into Owner's facilities, either on behalf of the Owner or on behalf of a Developer.

Contractor shall at all times be represented on the Work in person or by a duly designated agent or superintendent. Contractor shall hold a valid Contractor's License in accordance with the provisions of Division 3, Chapter 9 of the Business and Professions Code of the State of California, and any amendments thereto.

- d. "Work" shall mean all Work to be performed by Contractor and shall be as specified by these Specifications and the Construction Drawings, Special Requirements, and Specific Directions for any particular project.

The Owner may at any time during Work, by written order, make such changes as found necessary in the character, quality, or quantity of the Work to be furnished.

- e. "Construction Drawings" shall mean those drawings approved by the Owner showing dimensions, details, features, and requirements of the Work. Said Construction Drawings shall be used in conjunction with Special Requirements or Specific Directions and shall be augmented by these Specifications and the Standard Drawings.
- f. "Special Requirements" shall mean those requirements describing Work not specified by Construction Drawings or Specific Directions, clarifying Work as shown by Construction Drawings or as described by Specific Directions, or supplementing or modifying these Specifications. Said requirements may be written or verbal.
- g. "Specific Directions" shall mean those instructions of the Owner supplementing or modifying the Construction Drawings, Special Requirements, and Specifications and shall include all Work not specified by Construction Drawings or Special Requirements. Said instructions may be written or verbal.
- h. "Specifications", also "Construction Specifications", shall mean the requirements contained herein and shall apply to all Work, where applicable, unless specified otherwise, in the Construction Drawings, Special Requirements, or Specific Directions. Said Specifications shall augment Construction Drawings, Special Requirements, or Specific Directions and shall pertain to all methods and materials of construction.
- i. "Standard Drawings" shall mean all drawings referenced as such and bound with the Specifications. Said Standard Drawings shall be considered an integral part of the Specifications.

- j. "Standard Specifications" shall mean the Standard Specifications for Public Works Construction, latest edition, as published by Building News, Inc, Los Angeles, California. The Standard Specifications shall augment, not supersede, the "Construction Specifications". As used herein, the Standard Specifications shall not apply to measurement, payment, schedule, delays, or extra work.

2. **Abbreviations**

Whenever used in these Specifications, the following abbreviations shall refer to the agency shown:

| | | |
|----|--------|--|
| a. | AASHTO | American Association of State Highway and Transportation Officials |
| b. | ACI | American Concrete Institute |
| c. | AISC | American Institute of Steel Construction |
| d. | AISI | American Iron and Steel Institute |
| e. | ANSI | American National Standards Institute |
| f. | API | American Petroleum Institute |
| g. | ASTM | American Society for Testing Materials |
| h. | AWWA | American Water Works Association |
| i. | AWS | American Welding Society |
| j. | CRSI | Concrete Reinforcement and Steel Institute |
| k. | DIPRA | Ductile Iron Pipe Research Institute |
| l. | EIA | Electronic Industries Association |
| m. | IEEE | Institute of Electrical and Electronic Engineers |
| n. | IPCEA | Insulated Power Cable Engineers' Association |
| o. | NBFU | National Board of Fire Underwriters |
| p. | NEC | National Electrical Code |
| q. | NEMA | National Electrical Manufacturing Association |
| r. | REA | Rural Electrification Administration |
| s. | SSPC | Steel Structures Painting Council |
| t. | UL | Underwriters' Laboratories |

All references to Specifications of any of the above agencies shall mean the latest editions thereof.

3. **Permits, Certificates, Laws, and Ordinances**

Unless specified otherwise, Contractor shall at no cost to the Owner obtain all necessary permits, certificates, and licenses from such Federal, State, and local agencies as required to perform the Work. Contractor shall comply with all laws, ordinances, or rules and regulations of said agencies in performance of the Work.

4. **Contractor's Liability**

Contractor shall be responsible, and the Owner shall not be answerable or accountable in any manner, for any loss or damage that may happen to the Work performed by Contractor, subcontractors, or those associated with or working under Contractor, or for any of materials or equipment used or employed in performing the Work, or for injury to any person or persons, including employees, the public, or others, or for damage to property from any cause which might have been prevented by Contractor, subcontractors, or those associated with or working under Contractor. Contractor having control over such Work must properly guard and does indemnify and hold the Owner harmless, and will defend the Owner therefrom at Contractor's own expense, against all injuries or damages to persons and property.

Contractor shall indemnify, defend, and hold the Owner harmless from any and all claims, demands, fines, and penalties imposed or levied by any Federal, State, or local agency associated with or related to the taking (as defined by the United States Fish and Wildlife Service and, or the California Department of Fish and Game) of any protected animal or plant species or habitat by Contractor, subcontractors, or those associated with or working under Contractor.

5. Interferences

Any and all crossings of public utility facilities such as water mains, sewer lines, gas lines, electrical or control cables and/or conduits, telephone and/or telegraph cables and/or conduits shall be made by Contractor in accordance with requirements and Specifications of appropriate agencies. Contractor shall obtain any necessary permits, licenses, and/or agreements required by said agencies.

Whenever facilities are encountered by Contractor, he shall ascertain the ownership thereof and shall make all necessary arrangements with the owners for the protection, removal, relocation, and/or replacement thereof. Contractor shall give the owners due notice of his requirements and shall give them convenient access and cooperate with them in every way while any work of removal and/or replacement is being performed.

6. Sanitation

All parts of the Work shall be maintained in a neat, clean, sanitary condition. A portable toilet, inaccessible to insects, shall be provided by the District wherever needed for use by the Contractor's employees and said toilet's use shall be strictly enforced. All waste and refuse from sanitary facilities shall be disposed of by the District. All waste and refuse from any source related to Contractor's operations shall be disposed of in a sanitary manner satisfactory to the Owner and in accordance with laws and regulations pertaining thereto. Contractor shall rigorously prohibit and prevent committing of nuisance within the Work area or upon the Owner's right-of-way or adjacent private property.

7. Accident Prevention and First Aid

Contractor shall provide a safe working environment for all persons working on or affected by the Work. Contractor shall take precautions for the protection of persons and property at all times during the course of the Work. Contractor shall exercise and observe the safety provisions of applicable laws and building and construction codes. Contractor shall maintain in good and safe operating condition all equipment and facilities required for proper execution and inspection of the Work.

Contractor shall guard machinery, equipment, and hazards in accordance with safety provisions of the Manual of Accident Prevention in Construction, published by the Associated General Contractors of America, the Construction Safety Orders and Trench Construction Safety Orders as issued by the Division of Industrial Safety of the Department of Industrial relations of the State of California, and Chapter 8 ("Traffic Control and Protection of Workmen") of the Manual of Instruction for the Maintenance Department of the State of California Department of Transportation, to the extent that such provisions are not inconsistent with applicable laws or regulations.

All warning signs, lights, barricades, and other measures designed to protect the traveling public shall be erected and maintained in good order by Contractor in accordance with applicable provisions of Chapter 21 ("Maintenance Signs, Barricades, and Traffic Control") of the Manual of Instruction for the Maintenance Department of the State of California Department of Transportation and of the applicable ordinances of the public agency having jurisdiction over the maintenance and policing of highways, thoroughfares, and streets. Special regard shall be given to the rights and convenience of the traveling public and the property owners and residents in the area of Work. Cross-over boards or steel plates approved by the Owner shall be placed and other precautions taken whenever necessary to provide for at least one-way traffic along all traveled streets and to provide access to driveways and residences, unless specified otherwise.

8. First Aid Facilities

Contractor shall keep first aid facilities and supplies on the jobsite. Contractor shall provide instruction in first aid as required by State regulations. Contractor shall provide emergency first aid treatment and supplies for his employees sufficient to comply with all applicable laws.

9. Heat Illness Prevention Plan

In hot environments, Contractor shall comply with the California Code of Regulations Title 8, Section 3396, Heat Illness Prevention and shall refer to BCVWD Heat Illness Prevention Program and implement proper procedures to protect Contractors employees and Sub-Contractor employees from over exposure.

10. Materials

The District will furnish all pipeline materials and appurtenances, select pipe zone backfill and Class II Base backfill material for the pipeline replacement project in order to meet the required time schedule.

If required by the Contract Documents, Contractor shall furnish only approved materials as listed in the Owner's "District Standards for furnishing of Materials and Construction of Water and Recycled Water Facilities and Preparation of Water System Plans". All materials to be furnished by Contractor shall be new and of the best quality for their intended use. All like materials shall be of one manufacture for any particular project.

If required, the Contractor shall submit 3 copies of all material lists to the Owner for approval thereof. Said material lists shall include manufacturer's name, designation, description, and related information of all materials to be furnished and installed or otherwise used by Contractor in the performance of the Work. Said material lists shall be submitted at or prior to project preconstruction meeting and said lists shall be approved by the Owner prior to beginning construction.

11. Construction

Contractor alone shall be responsible for the safety, efficiency, and adequacy of his plant, equipment, appliances, and methods and for any damage which may result from their failure or their improper construction, maintenance, or operation.

Contractor shall be responsible for examining all Construction Drawings, Specifications, Standard Drawings, Work site, delivery routes, and local conditions which may affect the Work.

Before proceeding with the Work, Contractor shall furnish the Owner any information required of him by the Construction Drawings, Specifications, Standard Drawings, Special Requirements, and Directions of the Owner.

Contractor shall keep at jobsite a complete set of Construction Drawings, Specifications, Standard Drawings, permits, certificates and licenses for the Work, and all other data required by the Owner. Contractor shall be responsible for checking all dimensions and quantities on said drawings or schedules and shall notify the Owner of any errors and omissions found.

Until acceptance of the Work by the Owner, Contractor shall bear the risk of injury or damage to any part of the Work by action of the elements or from any other cause and Contractor shall rebuild, repair, restore, and make good any injuries or damages to the Work.

Contractor shall cooperate with other contractors who are working in the project area on behalf of other public entities and the City of Beaumont as the Owner may specify and he shall comply with all orders of the Owner. Contractor shall employ only competent and skillful persons to perform the Work. Said persons shall be qualified or certified to perform the Work in accordance with requirements of said person's trade.

Contractor shall submit to the Owner for approval a construction schedule covering all Work based on normal work periods. Contractor shall not deviate from approved schedule without prior permission from the Owner. Whenever Contractor arranges to work at night or at any time other than normal work periods or to vary the period during which Work is to be carried on each day, he shall obtain special permission from the Owner to do so and he shall keep the Owner properly informed of his activities. Construction schedule shall show the order in which Contractor proposes to carry out Work, dates of anticipated commencement and completion of Work and salient components thereof, and estimated percentage of Work to be completed at any time during the construction period.

12. Records of Construction

Contractor shall maintain at least one complete set of Construction Drawings on the jobsite during the course of construction upon which he shall note any changes in the Work as they occur. Contractor shall maintain said Drawings so that the Owner may at any time during the course of construction ascertain the changes that have occurred. Said Construction Drawings shall be the basis of the two sets of record drawings that Contractor shall provide the Owner upon completion of the Work.

13. Inspection

All materials and equipment furnished and all Work performed shall be subject to rigid inspection by the Owner. Contractor may be required to remove and replace under proper inspection any Work performed in the absence of prescribed inspection, with the entire cost being borne by Contractor irrespective of whether such Work is found to be defective. Work covered up without authority of the Owner shall, upon order of the Owner, be uncovered to the extent required to permit inspection, repair, or replacement and thereafter be recovered, and Contractor shall bear entire cost.

14. Examination of Work

Contractor shall furnish the Owner every reasonable facility for ascertaining whether Work is being accomplished in accordance with the requirements and intention of the Construction Drawings, Specifications, Standard Drawings, Special Requirements, and Directions of the Owner.

15. Right to Occupy Work

The Owner may wish to occupy or place in service portions of the Work before its final completion and shall be at liberty to do so. Such occupancy or placing in service of any portion of the Work shall not relieve Contractor of his responsibility of protection and care of all Work until final completion and acceptance provided, however, that expense directly attributable to operation and placing portions of Work in service shall not be chargeable to Contractor.

16. Maintenance and Guarantee

Contractor shall guarantee that all Work performed by him meets all requirements specified as to character, quality, and quantity of materials and workmanship. Contractor shall replace all materials and pay all installation costs made necessary by defects of workmanship supplied by him that become evident within one year after acceptance of the facilities or the date of final payment, whichever occurs later.

Contractor shall replace all defective materials if said materials are related to defects in the Contractor's workmanship promptly upon receipt of written notice from the Owner. If Contractor fails to replace all defective materials promptly, the Owner may secure the service of others to perform the Work and Contractor shall be liable to the Owner for any costs including removal and replacement thereof.

17. Construction Power

Contractor shall provide all necessary power required for his operations, and shall provide and maintain in good order such modern power equipment and installation as shall be adequate, in the opinion of the Owner, to perform the required Work in a safe and satisfactory manner.

18. Construction Water

Unless specified otherwise, the Owner will provide construction water to Contractor from its existing system at established rates. Contractor shall furnish and install all necessary piping and appurtenances necessary to convey water from the Owner's metered service connection to place of use.

19. Welding

Welding shall be done by the electric arc method using a process which excludes the atmosphere from the molten metal, except where otherwise approved by the Owner. Welding electrodes used for manual welding shall be an approved type. Except as modified herein, welding process qualification and operator qualification shall comply with the applicable requirements of the "Code for Arc and Gas Welding in Building Construction" of the AWS.

Each weld shall be uniform in width and size throughout its entire length. Each layer shall be smooth, free from slag, cracks, pinholes, and undercut and shall be completely fused to adjacent weld beads and base metal. Cover pass shall be completely free of course ripples, irregular surfaces, non-uniform bead pattern, high crown, deep ridges, or valleys between beads, and shall blend smoothly and gradually into surface of base metal. Butt welds shall be slightly convex, of uniform height, and shall have full penetration. Fillet welds shall be of size indicated, with full throat, and with each leg of equal length. Repair, chipping, or grinding of welds shall not gouge, groove, or reduce base metal thickness.

20. Environmental Factors

Contractor shall take all reasonable precautions to protect the environment.

a. Air Pollution

Contractor shall use only machinery and equipment which is equipped with suitable air pollution control devices so that undue quantities of pollutants are not added to the atmosphere in the vicinity of the Work site. Contractor's equipment shall meet all Federal, State, and local requirements for air quality emissions and Contractor shall comply with all applicable Federal, State, and local air pollution control regulations.

Contractor shall also take all necessary precautions to control dust created by construction operations. Contractor shall be especially diligent in implementing his dust control program and he shall be prepared to respond immediately and positively to any instructions for corrective action given by the Owner. Contractor shall use dust palliatives if necessary to satisfactorily control dust; however, Contractor shall secure the Owner's approval for use of dust palliatives other than water.

b. Explosives

Contractor shall handle, transport, store, and use explosives in accordance with applicable Federal, State, and local laws and regulations. Contractor shall be responsible for and make good any damage caused by his use of explosives.

c. Fires

Contractor shall exercise all precautions necessary to prevent unauthorized fires within or adjacent to the limits of the Work. Contractor shall be responsible for all damage resulting from fire due directly or indirectly to his or his employees' activities or the activities of his subcontractors or their employees.

d. Drainage and Flooding

Contractor shall manage excavation and spoil banks such that existing drainage conditions are not impaired. Contractor shall provide drainage in all cases where the existing drainage conditions are being unavoidably altered or disturbed by his operations. Temporary diversions, ditches, checks, swales, or other drainage structures or features necessary to ensure proper drainage and flood control shall be provided by Contractor at no extra cost to the Owner.

e. Historical and Archaeological Sites

If Contractor should encounter any evidence of historical or archaeological significance, he shall immediately cease construction, notify the Owner, and refrain from any activity until the Owner orders Work to resume. The Owner will assume full responsibility for any delays caused by historical or archaeological investigations.

f. Noise Pollution

Contractor shall equip all machinery and equipment used for construction with noise control devices such as mufflers for internal combustion engines or other suitable noise suppressors. Noise produced by construction operations shall be kept to a minimum and shall be consistent with reasonable human health requirements considering time of day and location of Work site. Contractor shall comply with all applicable Federal, State, and local noise pollution control regulations.

Unless specified otherwise, noise levels in connection with the Work shall not exceed 75 dB(A) at a distance of one hundred (100) feet for relatively continuous exposure and they shall not exceed 90 dB(A) at that same distance for relatively infrequent intermittent exposure. Contractor shall be prepared to respond immediately and positively to any instructions for corrective action given by the Owner particularly with respect to complaints from the public.

g. Public Relations

Contractor shall give due consideration to the comfort and convenience of the public and he shall instruct his employees to be polite and respectful in their dealings with the public at the Work site and in traveling to and from the Work site.

h. Traffic

Contractor shall adequately protect the public using any roads which are involved in Contractor's operations and he shall maintain safe traffic flow in the vicinity of the Work. Contractor shall use signs, barricades, delineators, flashers, and flagmen, all in strict compliance with Federal, State, and local rules and regulations regarding traffic control. Public roadways shall not be barricaded or blockaded except in accordance with requirements of public agencies having jurisdiction over same. Contractor shall provide access to all walkways, sidewalks, driveways, and streets at all times. Contractor shall implement traffic control plan provided by the Owner for the Work, and Contractor shall modify said traffic control plan, if required to provide a safe work space.

i. Vegetation and Wildlife

Contractor shall not destroy or disturb any vegetation or habitat unless absolutely necessary for the performance of the Work. Contractor shall take all steps necessary to ensure that his employees do not destroy or disturb any vegetation or wildlife in the prosecution of the Work or incidental thereto, including travel to and from the Work site.

j. Water Pollution

Contractor shall discard materials which might adversely affect ground or surface water at approved dump sites only. Chemicals and other water pollutants shall not be discharged into natural watercourses or on land tributary to said watercourses. Contractor shall comply with all applicable Federal, State, and local water pollution control regulations.

k. Cleanup

Contractor shall keep the premises occupied by him in a neat, clean condition free from unsightly accumulation of rubbish. Contractor shall maintain all Work areas within or without the project limits free from dust which would cause a hazard to the Work, operations of other contractors, or other persons or property. Upon completion of the Work, Contractor shall at his own expense satisfactorily dispose of or remove from the vicinity of the Work all plants, building, rubbish, unused materials, concrete forms, and other equipment and materials belonging to him or used under his direction during construction and, if he fails to do so, the same may be removed and disposed of by the Owner at Contractor's expense.

BEAUMONT-CHERRY VALLEY WATER DISTRICT

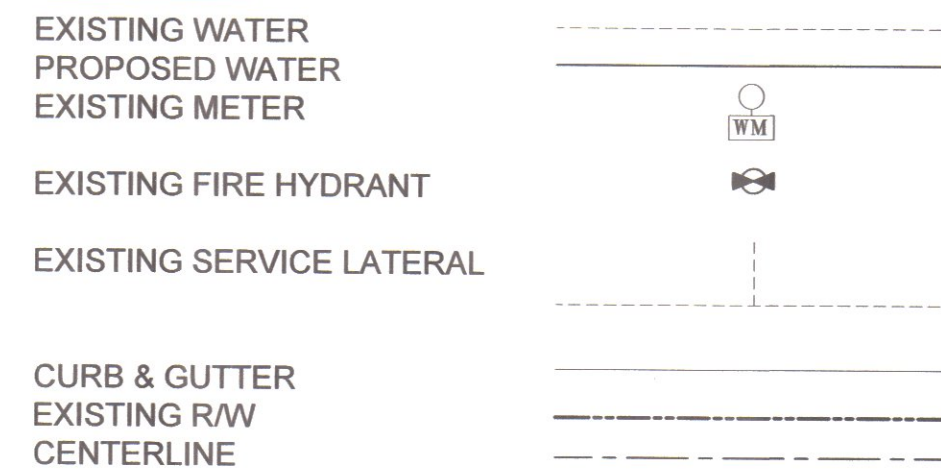
**9TH STREET AND 11TH STREET PIPELINE
REPLACEMENT PROJECT**

APPENDIX A

CONSTRUCTION PLANS

BEAUMONT-CHERRY VALLEY WATER DISTRICT PIPELINE REPLACEMENT PLAN FOR 9TH STREET AND 11TH STREET 2750 PRESSURE ZONE

LEGEND



ABBREVIATIONS

| | |
|--|-------|
| BEAUMONT-CHERRY VALLEY WATER DISTRICT..... | BCVWD |
| DUCTILE IRON PIPE..... | DIP |
| EXISTING..... | EX |
| NOT TO SCALE..... | NTS |
| PROPOSED..... | PROP |
| STATION..... | STA |
| STEEL..... | STL |
| PROTECT IN PLACE..... | PIP |
| FLANGED..... | FLG'D |
| MECHANICAL JOINT..... | MJ |
| PLAIN END..... | PE |

GENERAL CONSTRUCTION & NOTES

- 9TH STREET PIPELINE SHALL BE FULLY RESTRAINED WITH RESTRAINED JOINT GASKETS PER BCVWD STANDARD SPECIFICATIONS.
- 11TH STREET PIPELINE SHALL BE FULLY RESTRAINED WITH RESTRAINED JOINT GASKETS PER BCVWD STANDARD SPECIFICATIONS.
- BEAUMONT AVENUE CENTERLINE STATIONING FROM CITY OF BEAUMONT STREET IMPROVEMENT PLANS.
- INSTALL CLASS II AGGREGATE BASE (FURNISHED BY DISTRICT) FROM TOP OF PIPE ZONE TO GROUND SURFACE ALONG ALL NEW AND EXISTING PIPELINE TRENCHES PER BCVWD PLATE 6-1 AND 6-2.

DISTRICT ENGINEER'S NOTICE TO CONTRACTOR(S)

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS, AND IS REQUIRED FOR THE PROTECTION OF, AND ANY DAMAGE TO THESE LINES OR STRUCTURES.

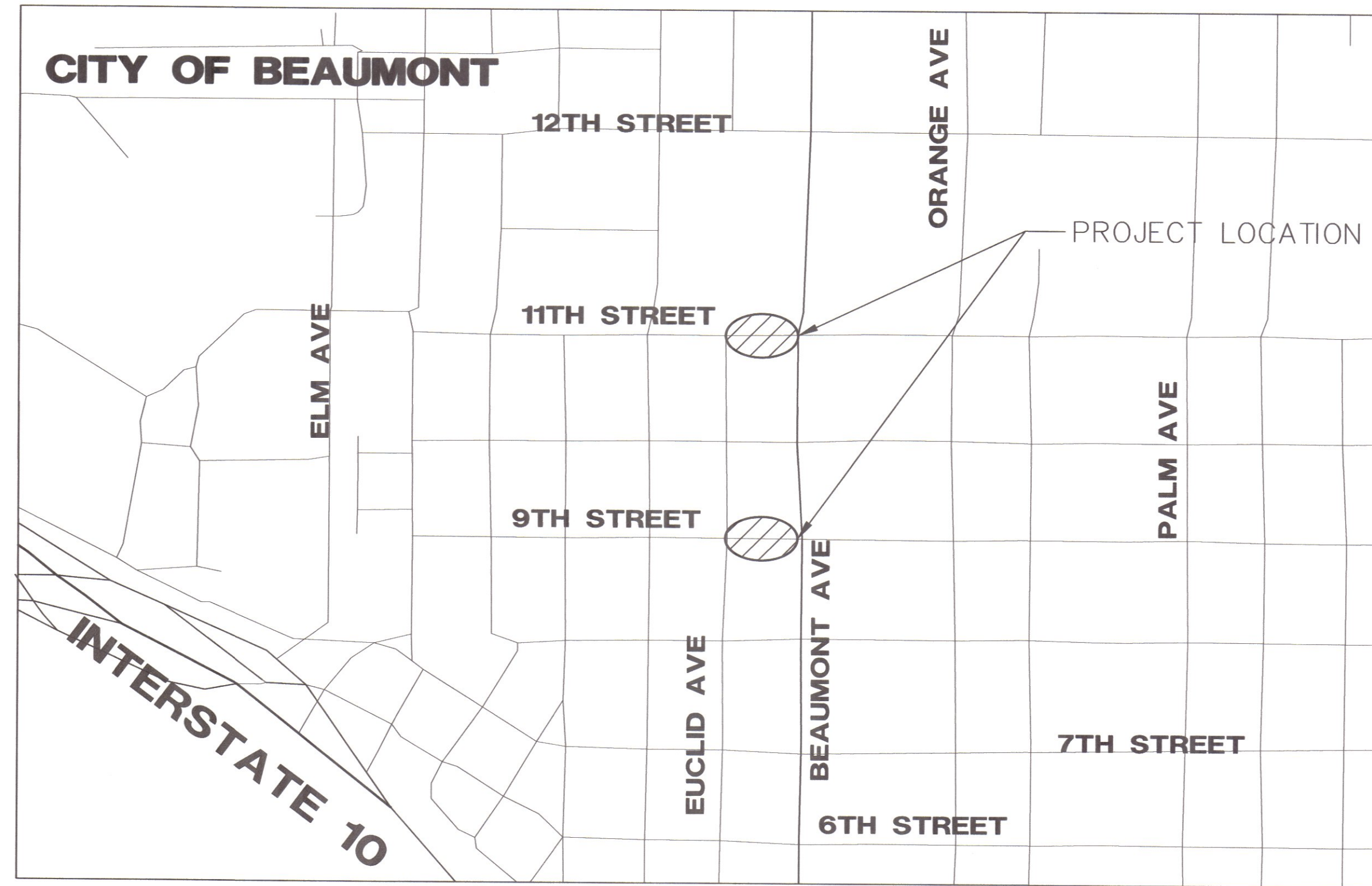
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF ALL UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR/OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

QUANTITIES SHOWN HEREON ARE PROVIDED FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES PRIOR TO BIDDING FOR CONSTRUCTION.

| SHEET No. | DESCRIPTION |
|-----------|--|
| 1 | TITLE, SHEET INDEX, VICINITY MAP, AND CONSTRUCTION NOTES |
| 2 | PIPELINE REPLACEMENT PLAN 9TH STREET: STA 10+00 - 14+02± 11TH STREET: STA 10+00 - 12+06± |

SHEET INDEX



VICINITY MAP

CONSTRUCTION NOTES

| NO. | DESCRIPTION | UNIT | QTY |
|-----|--|------|-----|
| 1 | PROTECT IN PLACE | - | - |
| 2 | INSTALL DISTRICT FURNISHED 1" WATER SERVICE SADDLE, CORPORATION STOP, SERVICE LATERAL PIPING, ANGLE METER STOP, AND METER BOX PER BCVWD STANDARD PLATE 6-3 AND PLATE 12. | EA | 3 |
| 3 | NOT USED | - | - |
| 4 | DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD) | - | - |
| 5 | TIE IN TO EXISTING PIPELINE | EA | 4 |
| 6 | INSTALL 8" DIP (CLASS 350) WITH POLYETHYLENE ENCASEMENT AND BEDDING PER BCVWD PLATE 6-1 (36" MIN. COVER) | LF | 608 |
| 7 | INSTALL 8" - 45° FLG'D X MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT | EA | 4 |
| 8 | INSTALL 8" - 45° MJ ELBOW WITH EBAA IRON SERIES 1100 RESTRAINT | EA | 4 |
| 9 | ABANDON IN PLACE EXISTING PIPELINE AND PLUG SEVERED PIPE ENDS WITH 3" MINIMUM CLASS "C" CONCRETE PLUG (EACH END) | EA | 2 |
| 10 | INSTALL THRUST BLOCK PER BCVWD PLATE 11-1 AND 11-2 | EA | 1 |
| 11 | INSTALL FLEX COUPLING ADAPTER PER BCVWD PLATE 9 | EA | 1 |
| 12 | INSTALL 4" FLG'D X PE SPOOL, 2'-0" LONG | EA | 1 |
| 13 | INSTALL 4" X 8" FLG'D DIP ECCENTRIC REDUCER, ORIENTED AS SHOWN | EA | 2 |
| 14 | REMOVE AND REPLACE EXISTING GATE VALVE PER BCVWD STANDARD SPECIFICATIONS | EA | 3 |

CONTRACTOR'S RESPONSIBILITY FOR THE JOB SITE

CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

GENERAL NOTES

- ALL WORK SHOWN ON THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE "DISTRICT STANDARDS FOR THE FURNISHING OF MATERIALS AND THE CONSTRUCTION OF WATER AND RECYCLED WATER FACILITIES AND PREPARATION OF WATER SYSTEM PLANS," LATEST REVISION, AND THE ADOPTED ADDENDUMS THERETO.
- WORK SHALL BE PERFORMED BY A CONTRACTOR LICENSED IN THE STATE OF CALIFORNIA, EXPERIENCED IN WATER UTILITY CONSTRUCTION.
- UNLESS OTHERWISE INDICATED, ALL PIPES SHALL BE CEMENT MORTAR LINED DUCTILE IRON PIPE, MINIMUM PRESSURE CLASS 350, WITH PUSH-ON JOINTS. ALL PIPES SHALL BE INSTALLED WITH TRACER WIRE AND WITH POLYETHYLENE ENCASEMENT. TRACER WIRE SHALL BE 14-GAUGE, INSULATED (BLUE COLOR) SOLID COPPER WIRE.
- FOR SEPARATION REQUIREMENTS BETWEEN WATER AND RECYCLED WATER, STORM DRAINS, AND SEWER LINES, SEE STATE OF CALIFORNIA CODE OF REGULATIONS, TITLE 22, SECTION 64572.
- CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA (TELEPHONE 811 / 800-227-2600) FOR LOCATION OF ALL UNDERGROUND UTILITIES TWO WORKING DAYS PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM CITY OF BEAUMONT AND/OR RIVERSIDE COUNTY, AS APPROPRIATE, PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE DISTRICT AT (951) 845-9581 TWO WORKING DAYS PRIOR TO COMMENCING WORK ON THE WATER UTILITY INSTALLATION. CONTRACTOR SHALL NOTIFY DISTRICT BY PRECEDING WEDNESDAY AT 4:00 P.M. PRIOR TO WORKING DURING THE WEEKEND. CANCELLATIONS SHALL BE NOTIFIED TO THE DISTRICT BY PRECEDING FRIDAY AT 3:00 P.M.
- NO EXISTING DISTRIBUTION SYSTEM VALVE SHALL BE OPERATED BY THE CONTRACTOR. DISTRICT PERSONNEL WILL OPERATE ALL NECESSARY VALVES.
- NO DEVIATIONS FROM THESE PLANS SHALL BE PERMITTED WITHOUT THE APPROVAL OF THE DISTRICT.
- EXISTING WATER MAINS SHALL NOT BE TAKEN OUT OF SERVICE FOR MORE THAN 4 HOURS. CONTRACTOR SHALL NOTIFY ALL WATER USERS AFFECTED BY THE SHUTDOWN A MINIMUM OF 48 HOURS PRIOR TO THE ACTUAL SHUTDOWN. INDICATE THE DATE AND PRECISE HOURS THAT THE MAIN WILL BE TAKEN OUT OF SERVICE.
- CONTRACTOR SHALL CONFORM TO THE STREET EXCAVATION REPLACEMENT STANDARDS OF THE CITY OF BEAUMONT.
- CONTRACTOR SHALL NOTIFY THE DISTRICT AT (951) 845-9581 TWO WORKING DAYS PRIOR TO PLACEMENT OF CONCRETE FOR SIDEWALKS.
- CONTRACTOR TO INSTALL MINIMUM 1" COPPER, TYPE K, SERVICE LATERALS IN ACCORDANCE WITH DISTRICT SPECIFICATIONS SHOWN ON DISTRICT STANDARD PLATE 6-2, PLATE 6-3, AND PLATE 12. ALL COPPER SERVICES SHALL BE INSTALLED WITH TAPE WRAP AND WITH POLYETHYLENE ENCASEMENT.
- CONTRACTOR SHALL COORDINATE ALL RECONNECTS WITH DISTRICT PERSONNEL PRIOR TO ANY CONNECTIONS OR RETIREMENTS OF ANY DISTRICT FACILITIES.
- CONTRACTOR SHALL BEAR ALL COSTS FOR THE CORRECTION OR REMOVAL AND REPLACEMENT OF DEFECTIVE WORK, AND ALL ADDITIONAL DIRECT AND INDIRECT COSTS THE CITY, COUNTY, OR DISTRICT MAY INCUR ON ACCOUNT OF DEFECTIVE WORK, INCLUDING THE COSTS OF ADDITIONAL ADMINISTRATIVE, PROFESSIONAL CONSULTANT, INSPECTION, TESTING, AND OTHER SERVICES.
- ALL PIPE SHALL BE HYDRO TESTED, DISINFECTED AND APPROVED PRIOR TO FINAL CONNECTION TO EXISTING WATER LINES.
- ALL MATERIALS SHALL BE OF DOMESTIC ORIGIN AND NOT OF FOREIGN MANUFACTURE.
- CONTRACTOR SHALL FURNISH TO THE DISTRICT COPIES OF ALL SOIL COMPACTION TEST REPORTS FOR THE INSTALLED WATER MAINS TWO (2) WORKING DAYS PRIOR TO HYDRO TESTING OF PIPELINES.
- CONTRACTOR SHALL FURNISH DISTRICT WITH PROJECT SPECIFIC MATERIALS OF CONSTRUCTION SUBMITTALS (IN PDF FORMAT) FOR REVIEW APPROVAL PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL KEEP AND MAINTAIN AT THE JOB SITE ONE (1) SET OF RECORD DRAWINGS. CONTRACTOR SHALL MARK ON DRAWINGS ALL CHANGES IN PROJECT CONDITIONS, LOCATIONS, CONFIGURATIONS AND ANY DEVIATIONS WHICH MAY VARY FROM THE DRAWINGS. THESE MASTER RECORD DRAWINGS SHALL BE MAINTAINED AND UP TO DATE DURING THE PROGRESS OF WORK. RECORD DRAWINGS SHALL BE ACCESSIBLE TO THE DISTRICT AT ALL TIMES DURING CONSTRUCTION AND A COPY OF SAID RECORD DRAWINGS SHALL BE DELIVERED TO THE DISTRICT UPON COMPLETION OF THE WORK.



| | |
|---------------------------------------|--|
| BEAUMONT-CHERRY VALLEY WATER DISTRICT | |
| ENGINEERING | |
| TRANSMISSION & DISTRIBUTION | |
| SYMBOLS | |
| REVISIONS | |
| DATE | |
| BY | |



BEAUMONT-CHERRY VALLEY WATER DISTRICT

560 Magnolia Ave. • Beaumont, CA. 92223 • 951-845-9581

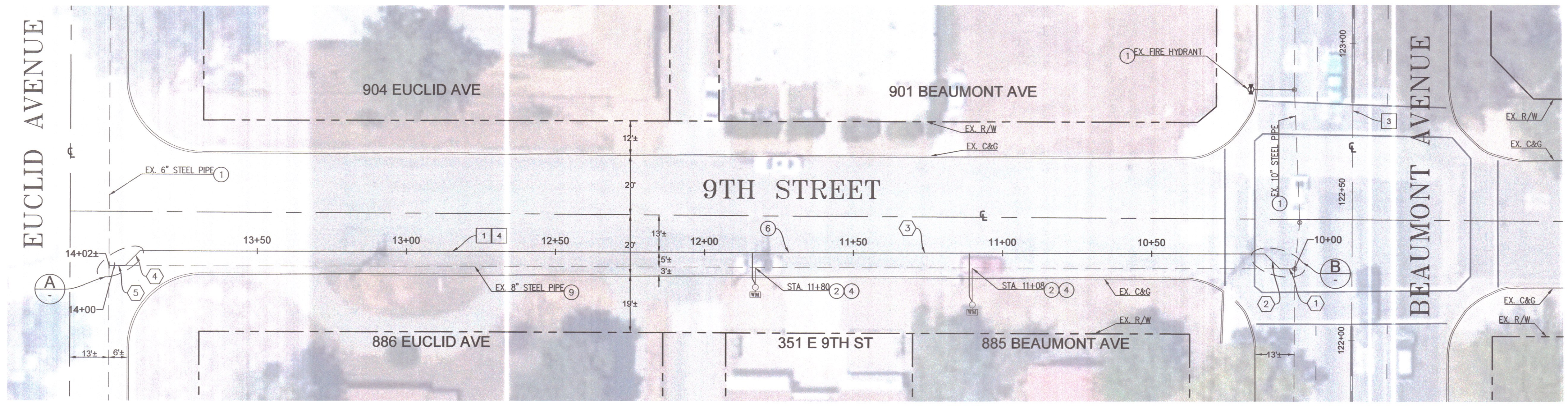
APPROVED BY: *[Signature]*
REGISTERED ENGINEER No. 72332 DATE 02-06-2020

| | |
|------------|----------|
| SCALE | AS NOTED |
| FIELD BOOK | N/A |
| DESIGN | DAB |
| DRAWN | DAB |
| CHECKED | MBS/DKJ |

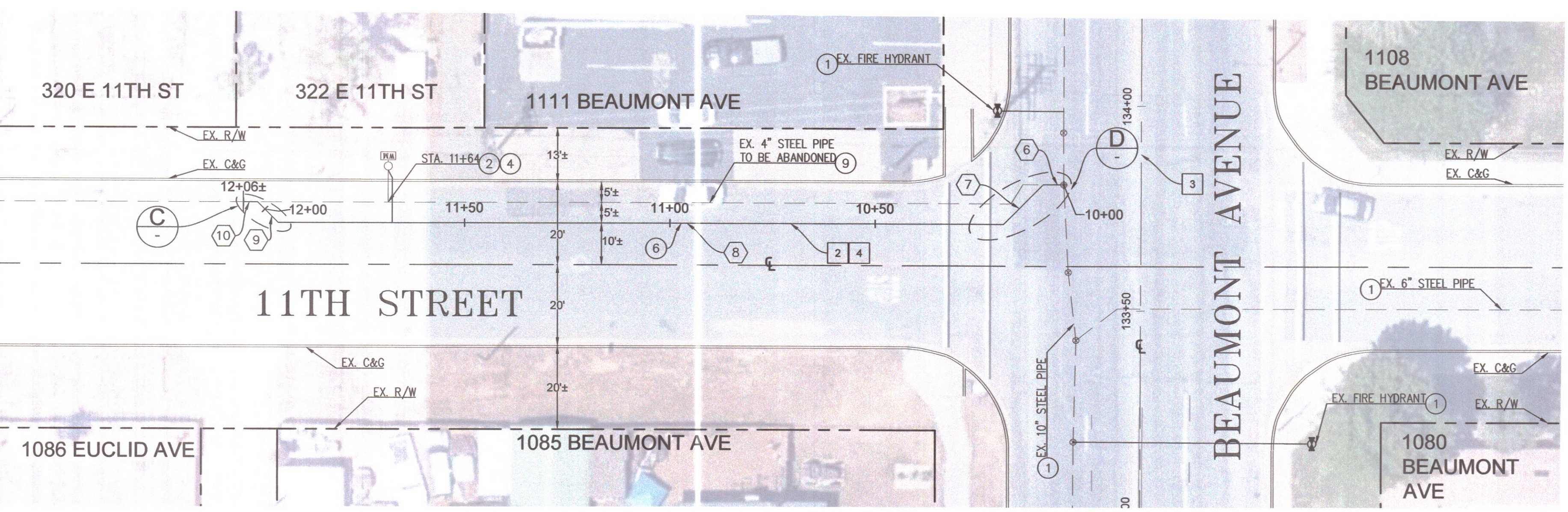
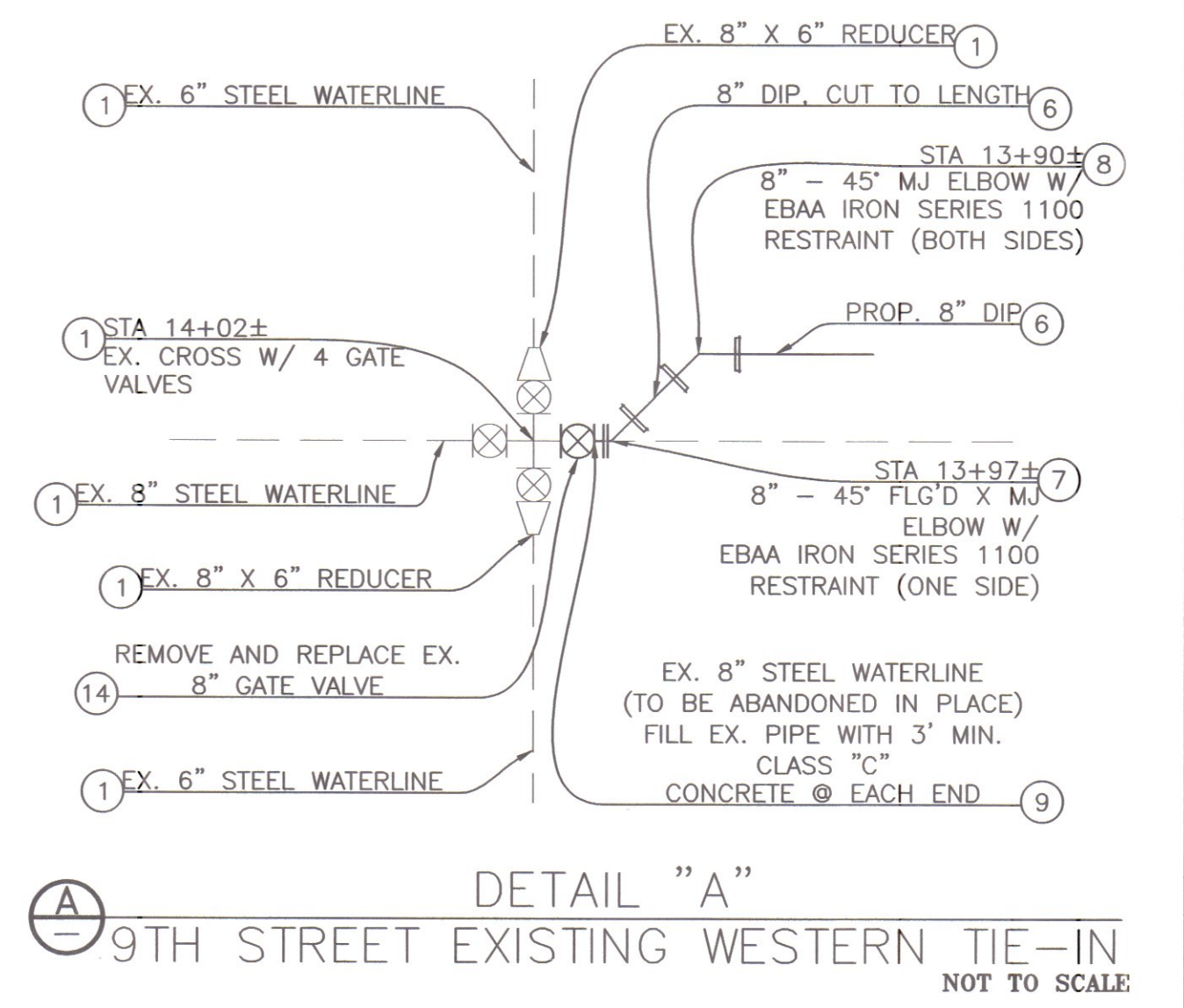
BCVWD
PIPELINE REPLACEMENT PLAN
TITLE, SHEET INDEX,
VICINITY MAP, AND
CONSTRUCTION NOTES

2750 PZ

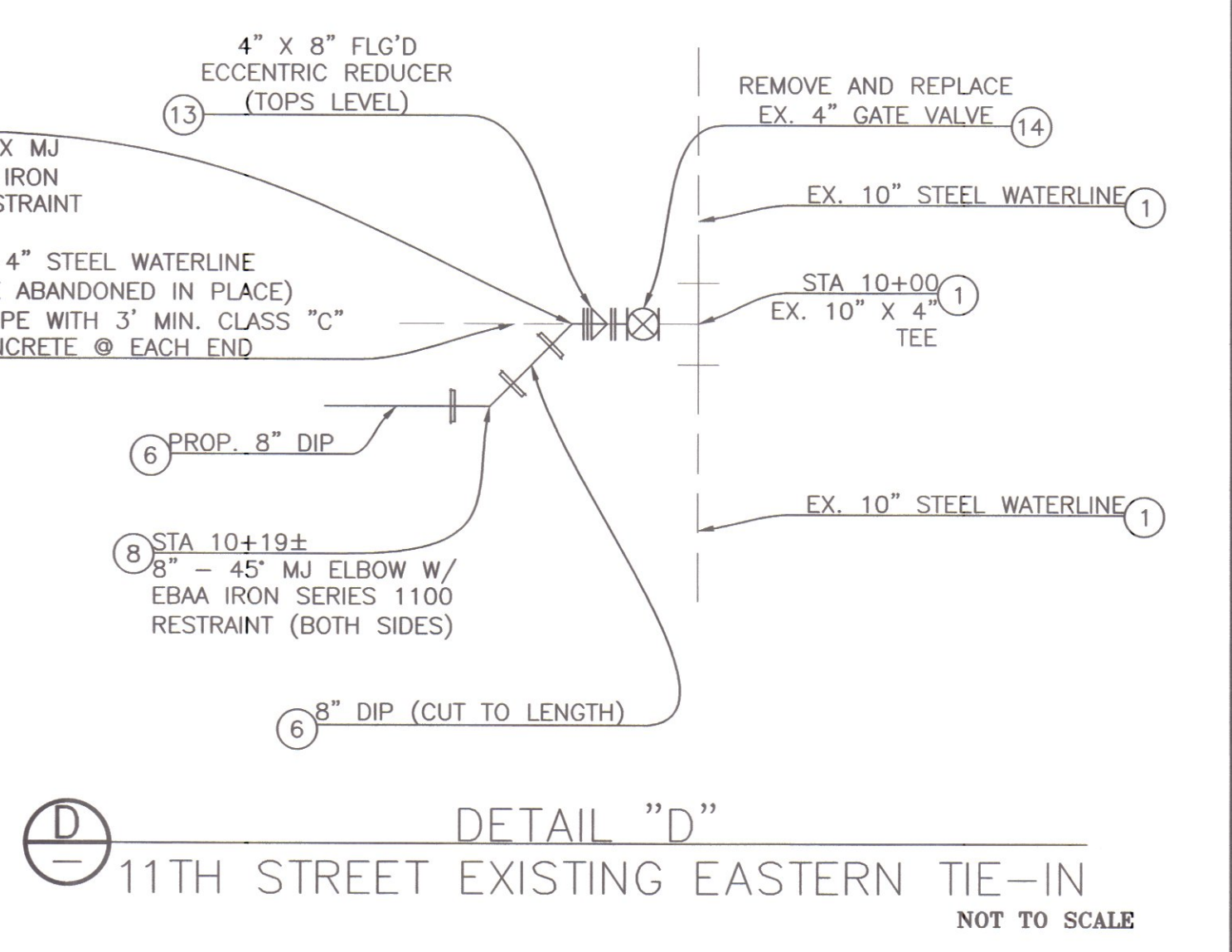
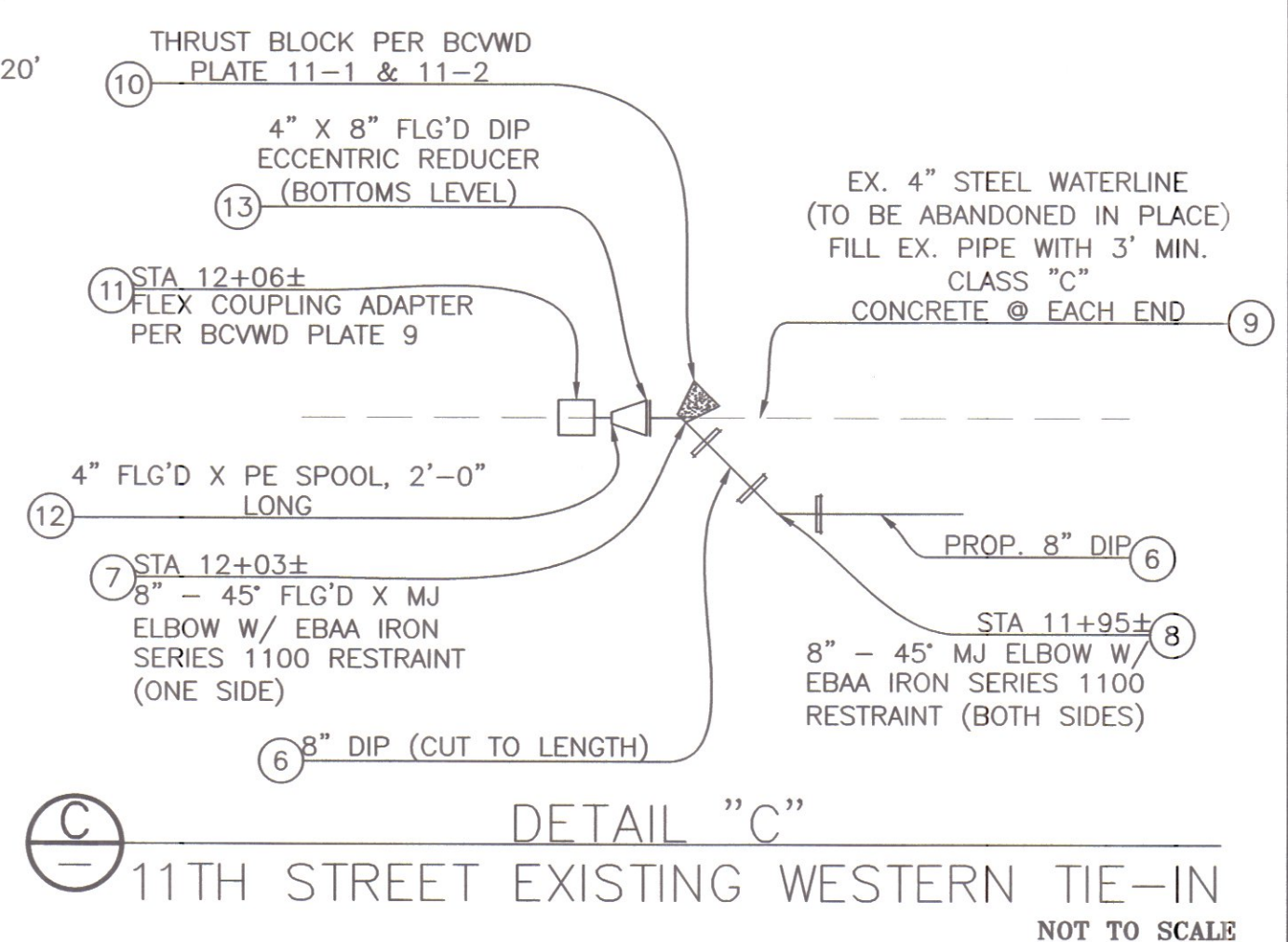
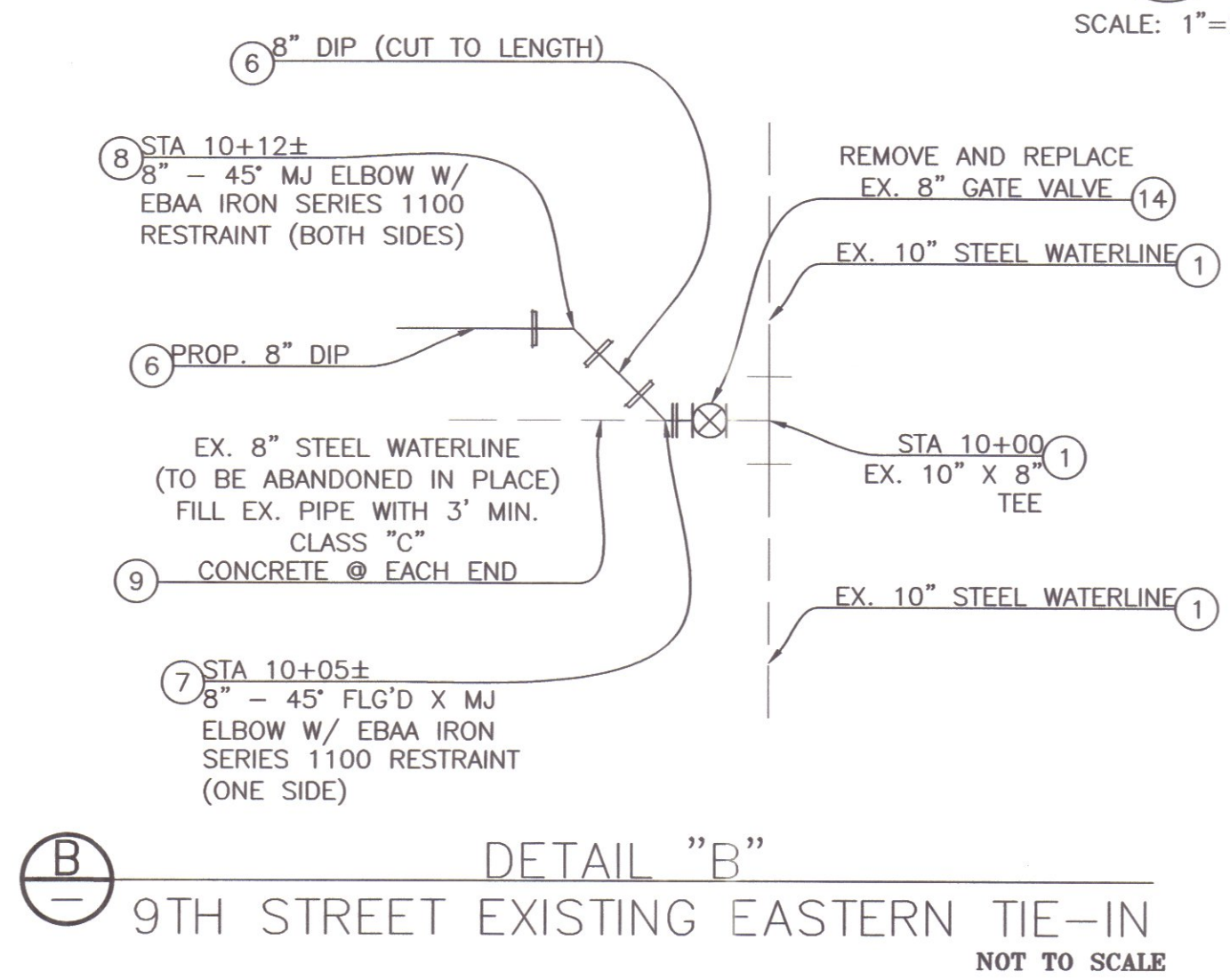
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FILE No.



9TH STREET PIPELINE REPLACEMENT



11TH STREET PIPELINE REPLACEMENT



- CONSTRUCTION NOTES**
- PROTECT IN PLACE
 - INSTALL DISTRICT FURNISHED 1" WATER SERVICE SADDLE, CORPORATION STOP, SERVICE LATERAL PIPING, ANGLE METER STOP, AND METER BOX PER BCVWD STANDARD PLATE 6-3 AND PLATE 12.
 - NOT USED
 - DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)
 - TIE IN TO EXISTING PIPELINE
 - INSTALL 8" DIP (CLASS 350) WITH POLYETHYLENE ENCASUREMENT AND BEDDING PER BCVWD PLATE 6-1 (36" MIN. COVER)
 - INSTALL 8"-45° FLG'D X MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT
 - INSTALL 8" - 45° MJ ELBOW WITH EBAA IRON SERIES 1100 RESTRAINT
 - ABANDON IN PLACE EXISTING PIPELINE AND PLUG SEVERED PIPE ENDS WITH 3" MINIMUM CLASS "C" CONCRETE PLUG (EACH END)
 - INSTALL THRUST BLOCK PER BCVWD PLATE 11-1 AND 11-2
 - INSTALL FLEX COUPLING ADAPTER PER BCVWD PLATE 9
 - INSTALL 4" FLG'D X PE SPOOL, 2'-0" LONG
 - INSTALL 4" X 8" FLG'D DIP ECCENTRIC REDUCER, ORIENTED AS SHOWN
 - REMOVE AND REPLACE EXISTING GATE VALVE PER BCVWD STANDARD SPECIFICATIONS

LINE/CURVE DATA TABLE

| | BEARING/DELTA | RADIUS | LENGTH(±) (FT) |
|----|---------------|--------|-------------------|
| 1 | N 90°00'00" E | - | 5 |
| 2 | N 45°00'00" W | - | 7 |
| 3 | N 90°00'00" E | - | 377 |
| 4 | N 45°00'00" E | - | 7 |
| 5 | N 90°00'00" E | - | 5 |
| 6 | N 90°00'00" E | - | 5 |
| 7 | N 45°00'00" E | - | 14 |
| 8 | N 90°00'00" E | - | 177 |
| 9 | N 45°00'00" W | - | 7 |
| 10 | N 90°00'00" E | - | 3 |

- GENERAL CONSTRUCTION & NOTES:**
- 9TH STREET PIPELINE SHALL BE FULLY RESTRAINED WITH RESTRAINED JOINT GASKETS PER BCVWD STANDARD SPECIFICATIONS.
 - 11TH STREET PIPELINE SHALL BE FULLY RESTRAINED WITH RESTRAINED JOINT GASKETS PER BCVWD STANDARD SPECIFICATIONS.
 - BEAUMONT AVENUE CENTERLINE STATIONING FROM CITY OF BEAUMONT STREET IMPROVEMENT PLANS.
 - INSTALL CLASS II AGGREGATE BASE (FURNISHED BY DISTRICT) FROM TOP OF PIPE ZONE TO GROUND SURFACE ALONG ALL NEW AND EXISTING PIPELINE TRENCHES PER BCVWD PLATE 6-1 AND 6-2.

48 hours BEFORE excavation
1-(800)227-2600
CALL Underground Service Alert

| SYMBOL | REVISIONS | DATE | BY |
|--------|-----------|------|----|
| | | | |



BEAUMONT-CHERRY VALLEY WATER DISTRICT
560 Magnolia Ave. • Beaumont, CA. 92223 • 951-845-9581

APPROVED BY: [Signature]
REGISTERED ENGINEER No. 72332 DATE 02-06-2020

| | |
|------------|----------|
| SCALE | AS NOTED |
| FIELD BOOK | N/A |
| DESIGN | DAB |
| DRAWN | DAB |
| CHECKED | MBS/DKJ |

BCVWD
PIPELINE REPLACEMENT PLAN
9TH STREET: STA 10+00 - 14+02±
11TH STREET: STA 10+00 - 12+06±

2750 PZ
SHEET
2
OF 2 SHEETS
FILE No.

BEAUMONT-CHERRY VALLEY WATER DISTRICT

**9TH STREET AND 11TH STREET PIPELINE
REPLACEMENT PROJECT**

APPENDIX B






**TRAFFIC CONTROL PLANS
FOR
9TH STREET AND 11TH STREET**

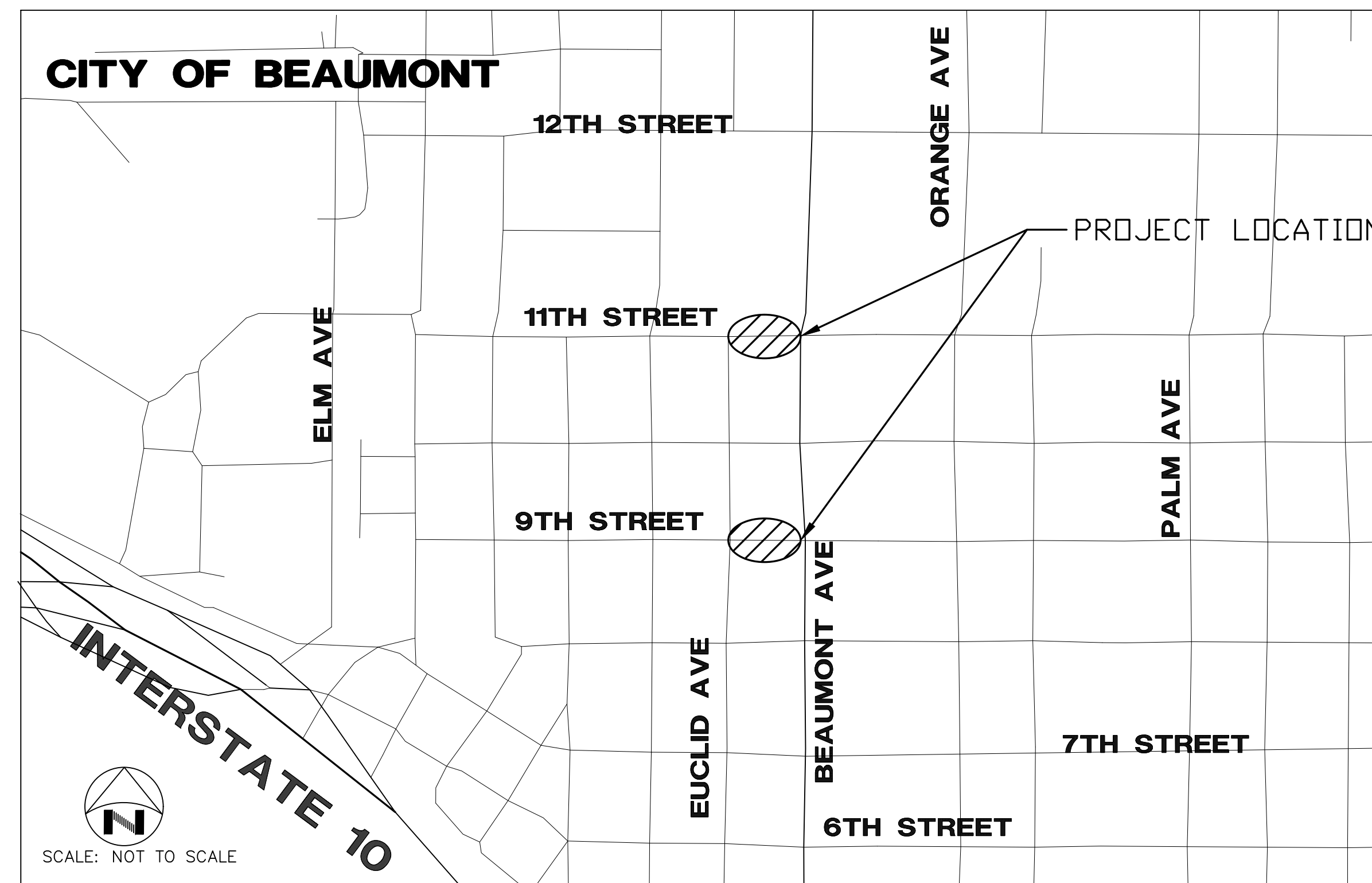
BEAUMONT-CHERRY VALLEY WATER DISTRICT TRAFFIC CONTROL PLANS FOR PIPELINE REPLACEMENT FOR 9TH STREET AND 11TH STREET

2750 PRESSURE ZONE

LOCATED WITHIN A PORTION OF SECTION 29, TOWNSHIP 3S SOUTH, RANGE 1 WEST, S.B.M.

LEGEND

-  W20-1
-  W20-5
-  C30
-  W4-2
-  G20-2



VICINITY MAP

| SHEET No. | DESCRIPTION |
|-----------|---|
| 1 | TITLE, SHEET INDEX, VICINITY MAP, LEGEND, AND NOTES |
| 2 | TYPICAL TRAFFIC CONTROL LAYOUT |

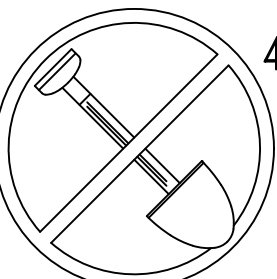

SHEET INDEX

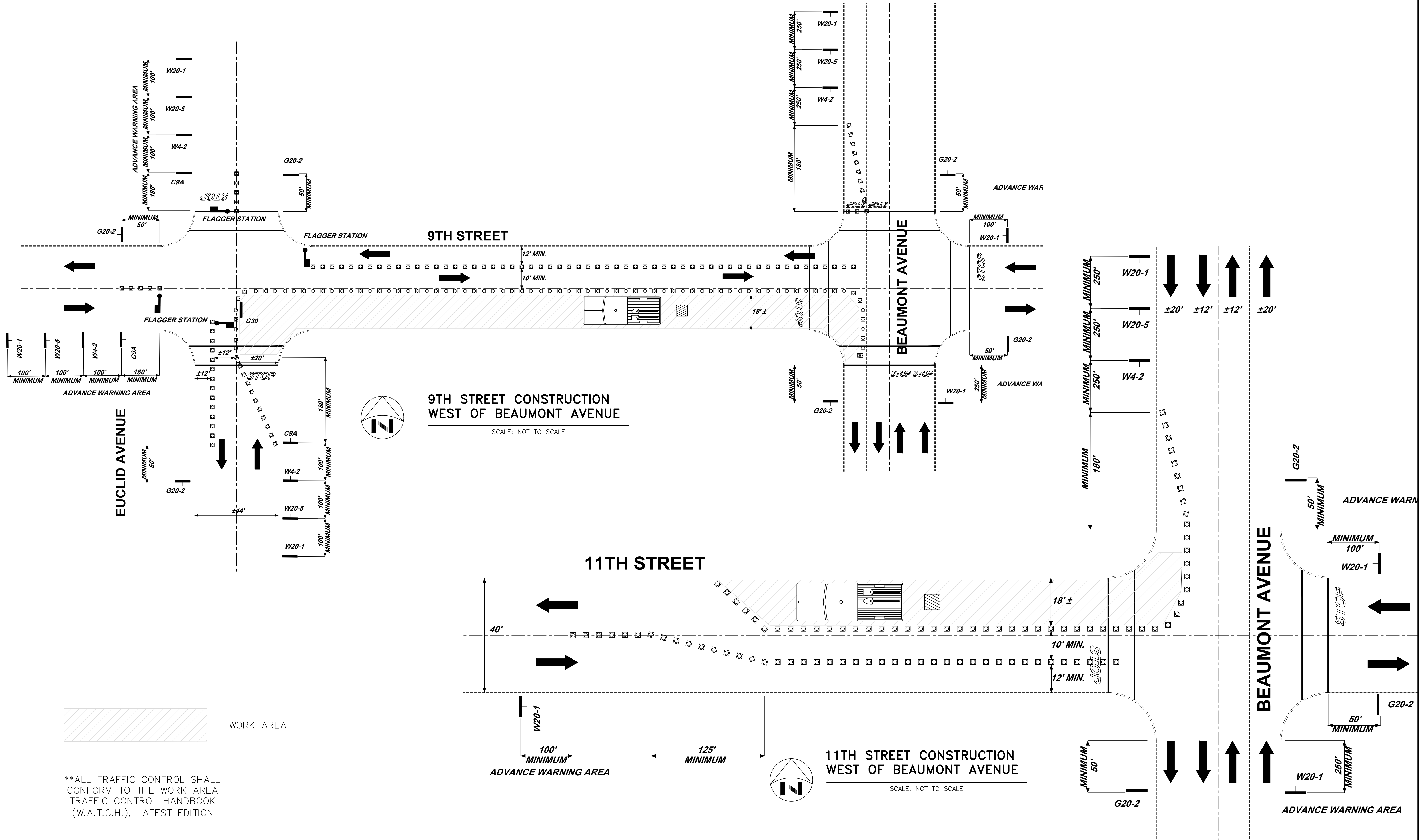
NOTES (APPLY TO SHEETS 1 THRU 2):

1. ALL TRAFFIC CONTROL DEVICES FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH), LATEST EDITION.
2. TRAFFIC CONTROL SHOWN HEREON IS THE MINIMUM REQUIRED. ADDITIONAL TRAFFIC CONTROL MAY BE REQUIRED TO FACILITATE PUBLIC SAFETY AND TRAFFIC FLOW IF DEEMED NECESSARY BY DISTRICT OR THE CITY OF BEAUMONT.
3. THE PANEL SIZE OF ALL ADVANCE WARNING SIGNS SHALL BE 36"X36". ALL ADVANCE WARNING SIGNS SHALL BE AT LEAST EIGHT FEET HIGH AND DESIGNED TO RESIST OVERTURNING BRISK WINDS. ALL ADVANCE WARNING SIGNS SHALL BE EQUIPPED WITH AT LEAST THREE 16" SQUARE ORANGE FLAGS FOR DAY USE.
4. THROUGHOUT EACH WORK PERIOD, CONTRACTOR SHALL INSPECT TRAFFIC CONTROL (SIGNS, BARRICADES, AND DELINEATORS) AND MAINTAIN SAME IN ACCORDANCE WITH TRAFFIC CONTROL PLANS.
5. ALL WORKERS SHALL BE EQUIPPED WITH A HIGH VISIBILITY REFLECTIVE SAFETY VEST AND HARD HAT AT ALL TIMES.
6. ALL FLAGGERS SHALL BE TRAINED AND THEIR SOLE DUTY SHALL BE TRAFFIC CONTROL. ALL FLAGGERS SHALL COMMUNICATE WITH EACH OTHER AND WITH EQUIPMENT OPERATORS BY RADIO TO ENSURE SAFE MOVEMENT OF LOCAL TRAFFIC AND PEDESTRIANS THROUGH THE WORK AREA. ALL FLAGGERS SHALL WEAR REFLECTIVE GEAR.
7. CONTRACTOR SHALL MAINTAIN A 10' MINIMUM LANE WIDTH AT ALL TIMES.
8. ACCESS TO PRIVATE PROPERTY AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES.
9. CONTRACTOR SHALL PROVIDE ACCESS FOR LOCAL RESIDENTS, EMERGENCY VEHICLES, MAIL DELIVERY, ROUTINE UTILITY OPERATIONS, AND REFUSE COLLECTION AT ALL TIMES.
10. THERE SHALL BE A MINIMUM DISTANCE OF 5' BETWEEN ANY OPEN TRENCH AND THE NEAREST TRAFFIC LANE. NO OPEN TRENCH ADJACENT TO A TRAFFIC LANE SHALL EXCEED 300 FEET.
11. CONTRACTOR SHALL POST SPECIAL ADVANCED NOTIFICATION SIGNS INDICATING DURATION OF CONSTRUCTION, A MINIMUM OF 1 WEEK PRIOR TO CONSTRUCTION TO INFORM THE PUBLIC OF THE IMPENDING WORK.
12. CONTRACTOR SHALL USE TRAFFIC CONTROL SHOWN HEREON FOR CONSTRUCTION OF WATERLINE AND APPURTENANCES, CONSTRUCTION OF PERMANENT ASPHALT CONCRETE BASE PAVEMENT, ASPHALT CONCRETE OVERLAY, AND FOR ANY OTHER WORK.
13. ALL WORK SHALL BE PERFORMED BETWEEN THE HOURS OF 7:00 AM TO 5:00 PM, MONDAY THRU FRIDAY. ALL TRENCHES SHALL BE PLATED OR BACKFILLED AT THE END OF EACH WORK PERIOD AND THE STREETS OPENED TO TRAFFIC FOR ALL DIRECTIONS.
14. CONTRACTOR PERFORMING WORK ON A PUBLIC STREET SHALL INSTALL AND MAINTAIN CONTROL DEVICES AS SHOWN HEREIN, AS WELL AS ANY SUCH ADDITIONAL DEVICES AS MAY BE REQUIRED TO INSURE THE SAFE MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE WORK AREA.
15. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN THEIR PROPER POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY.

RECDM CITY ENGINEER
 REGISTRATION # _____ DATE SIGNED _____
 APPROVED AS TO COMPLIANCE WITH APPLICABLE CITY OF BEAUMONT STANDARDS AND PRACTICES.

2750 PZ

| | | | | | | | | |
|---|---|-----------|------|----|--|---|--|---|
|  48 hours BEFORE excavation 1-(800)227-2600 CALL Underground Service Alert | BEAUMONT-CHERRY VALLEY WATER DISTRICT ENGINEERING TRANSMISSION & DISTRIBUTION | | | | BEAUMONT-CHERRY VALLEY WATER DISTRICT 560 Magnolia Ave. • Beaumont, CA. 92223 • 951-845-9581 APPROVED BY _____ REGISTERED ENGINEER No. _____ DATE _____ | SCALE N/A FIELD BOOK N/A DESIGN DAB DRAWN DAB CHECKED MBS/DKJ | BCVWD TRAFFIC CONTROL PLANS FOR PIPELINE REPLACEMENT FOR 9TH AND 11TH STREET TITLE, SHEET INDEX, VICINITY MAP, LEGEND, AND NOTES | SHEET 1 OF 2 SHEETS FILE No. _____ |
| | SYM | REVISIONS | DATE | BY | |  | | |



**ALL TRAFFIC CONTROL SHALL CONFORM TO THE WORK AREA TRAFFIC CONTROL HANDBOOK (W.A.T.C.H.), LATEST EDITION

48 hours BEFORE excavation
1-(800)227-2600
CALL Underground Service Alert

| | | | | |
|---------------------------------------|-----------|------|----|--|
| BEAUMONT-CHERRY VALLEY WATER DISTRICT | | | | |
| ENGINEERING | | | | |
| TRANSMISSION & DISTRIBUTION | | | | |
| SYMBOL | REVISIONS | DATE | BY | |



BEAUMONT-CHERRY VALLEY WATER DISTRICT
560 Magnolia Ave. • Beaumont, CA. 92223 • 951-845-9581

APPROVED BY _____
REGISTERED ENGINEER No. _____ DATE _____

| | |
|------------|---------|
| SCALE | N/A |
| FIELD BOOK | N/A |
| DESIGN | DAB |
| DRAWN | DAB |
| CHECKED | MBS/DKJ |

BCVWD
TRAFFIC CONTROL PLANS FOR PIPELINE REPLACEMENT FOR 9TH AND 11TH STREET
TYPICAL TRAFFIC CONTROL SETUP

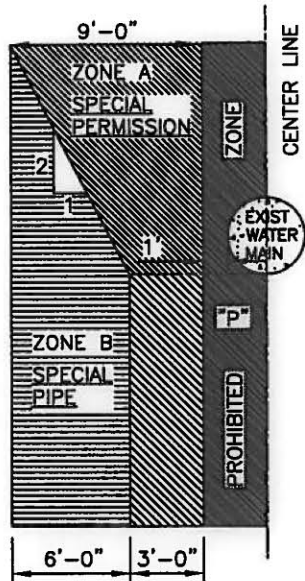
SHEET
2
OF 2 SHEETS
FILE No.

BEAUMONT-CHERRY VALLEY WATER DISTRICT

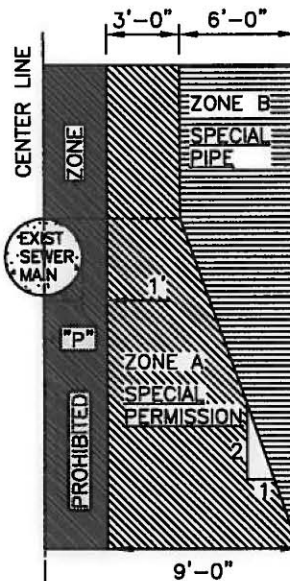
9TH STREET AND 11TH STREET PIPELINE REPLACEMENT PROJECT

APPENDIX C

STANDARD DRAWINGS



NEW SEWER MAIN

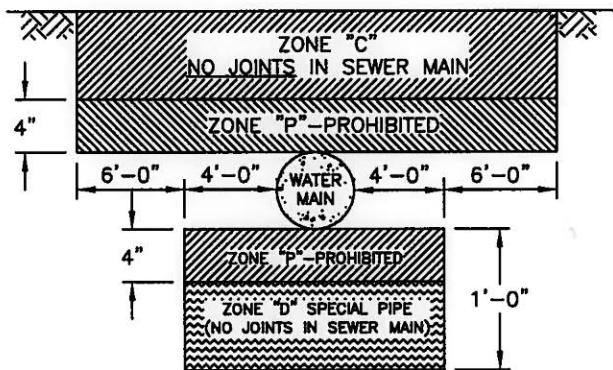


NEW WATER MAIN

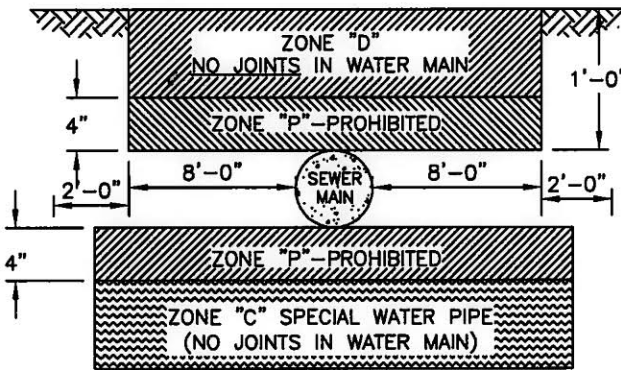
NOTE:

ZONES IDENTICAL ON EITHER SIDE OF CENTER LINES.
 ZONES "P" IS A PROHIBITED ZONE SECTION 64630 (e) (2) CALIFORNIA CODE OF REGULATIONS, TITLE 22 (CURRENT); OR SECTION 64572 (a) CALIFORNIA CODE OF REGULATIONS, TITLE 22 (PROPOSED).
 DIMENSIONS ARE FROM OUTSIDE OF WATER MAIN TO OUTSIDE OF SEWER.

PARALLEL CONSTRUCTION



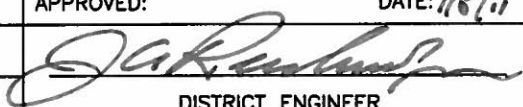
NEW SEWER MAIN



NEW WATER MAIN

CROSSINGS

NOT TO SCALE

| | | |
|--|----------------------|---------------|
| REVISED | PREPARED BY: PARSONS | DATE: 08/06 |
| 03/10 | APPROVED: | DATE: 11/6/11 |
|  DISTRICT ENGINEER | | |

| | |
|--|---------------|
| BEAUMONT CHERRY VALLEY WATER DISTRICT | |
| WATER-SEWER SEPARATION REQUIREMENTS | PLATE D4-1 |

BEAUMONT CHERRY VALLEY WATER DISTRICT

WATER - SEWER SEPARATION REQUIREMENTS

Appropriate alternative construction criteria for two different cases in which the regulatory criteria for sanitary sewer main and water main separation cannot be met are shown in District Standard Plate No. D4-1.

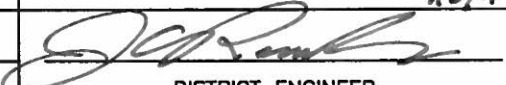
- Case 1 – New sanitary sewer main and a new or existing water main; alternative construction criteria apply to the sanitary sewer main.
- Case 2 – New water main and an existing sanitary sewer main; alternative construction criteria may apply to either or both the water main and sanitary sewer main.

Case 1: New Sanitary Sewer Main Installation

ZONE SPECIAL CONSTRUCTION REQUIRED FOR SEWER

- A. Sewer lines will not be permitted in this zone without prior written approval from the Health Department and Beaumont Cherry Valley Water District.
- B. If the water main does not meet the class 2 Zone B requirements given below, the sewer should be constructed of one of the following:
1. High-density-polyethylene (HDPE) pipe with fusion welded joints (per AWWA C906);
 2. Spirally-reinforced HDPE pipe with gasketed joints (per ASTM F-894);
 3. Extra strength vitrified clay pipe with compression joints;
 4. Class 4000, Type II, asbestos-cement pipe with rubber gasket joints;
 5. PVC sewer pipe with rubber ring joints (per ASTM D3034) or equivalent;
 6. Cast or ductile iron pipe with compression joints; or
 7. Reinforced concrete pressure pipe with compression joints (per AWWA C302).
- C. If the water main crossing below the sanitary sewer main does not meet the requirements for Case 2 Zone C, the sanitary sewer main should have no joints within ten feet from either side of the water main (in Zone C) and should be constructed of one of the following:
1. A continuous section of ductile iron pipe with hot dip bituminous coating; or
 2. One of the Zone D options 1, 3, 4, or 5 below.
- D. If the water main crossing above the sanitary sewer main does not meet the Case 2 Zone D requirements, the sanitary sewer main should have no joints within four feet from either side of the water main (in Zone D) and be constructed of one of the following:
1. HDPE pipe with fusion-welded joints (per AWWA C906)
 2. Ductile iron pipe with hot dip bituminous coating and mechanical joints (gasketed, bolter joints);
 3. A continuous section of Class 200 (DR 14 per AWWA C900) PVC pipe or equivalent, centered over the pipe being crossed; or
 4. A continuous section of reinforced concrete pressure pipe (per AWWA C302) centered over the pipe being crossed; or
 5. Any sanitary sewer main within a continuous sleeve.

NOT TO SCALE

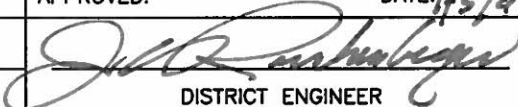
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| REVISED | PREPARED BY: PARSONS | DATE: 08/06 | BEAUMONT CHERRY VALLEY WATER DISTRICT | |
| 12/10 | APPROVED: | DATE: 1/5/11 | WATER-SEWER SEPARATION REQUIREMENTS | |
| |  DISTRICT ENGINEER | | PLATE D4-2 | |

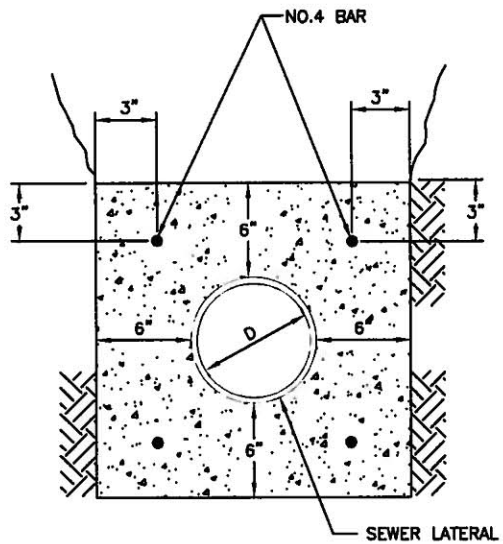
Case 2: Special Construction Required for Water Main

ZONE SPECIAL CONSTRUCTION REQUIRED FOR SEWER

- A. No water mains shall be constructed without prior written authorization from the Health Department.
- B. If the sewer does not meet the Case 1 Zone B requirements given above, the water main shall be constructed of one of the following:
 - 1. Ductile iron pipe with hot dip bituminous coating.
 - 2. Dipped and wrapped one-fourth-inch-thick welded steel pipe.
- C. If the sewer crossing above the water main does not meet the Class 1 Zone C requirements given above, the water main should have no joints within ten feet from either side of the sewer main (in Zone C) and be constructed of one of the following:
 - Ductile iron pipe with hot dip bituminous coating.
 - Dipped and wrapped one-fourth-inch-thick welded steel pipe.
- D. If the sanitary sewer main crossing below the water main does not meet the requirements for Case 1 Zone D, the water main should have no joints within eight feet from either side of the sanitary sewer main (in Zone D) and should be constructed as for Zone C.

NOT TO SCALE

| | | | | |
|--|----------------------|--------------|--|---------------|
| REVISED | PREPARED BY: PARSONS | DATE: 08/06 | BEAUMONT CHERRY VALLEY WATER DISTRICT | |
| 12/10 | APPROVED: | DATE: 1/5/11 | | |
|  DISTRICT ENGINEER | | | WATER-SEWER SEPARATION REQUIREMENTS | PLATE D4-3 |




HOUSE LATERALS:

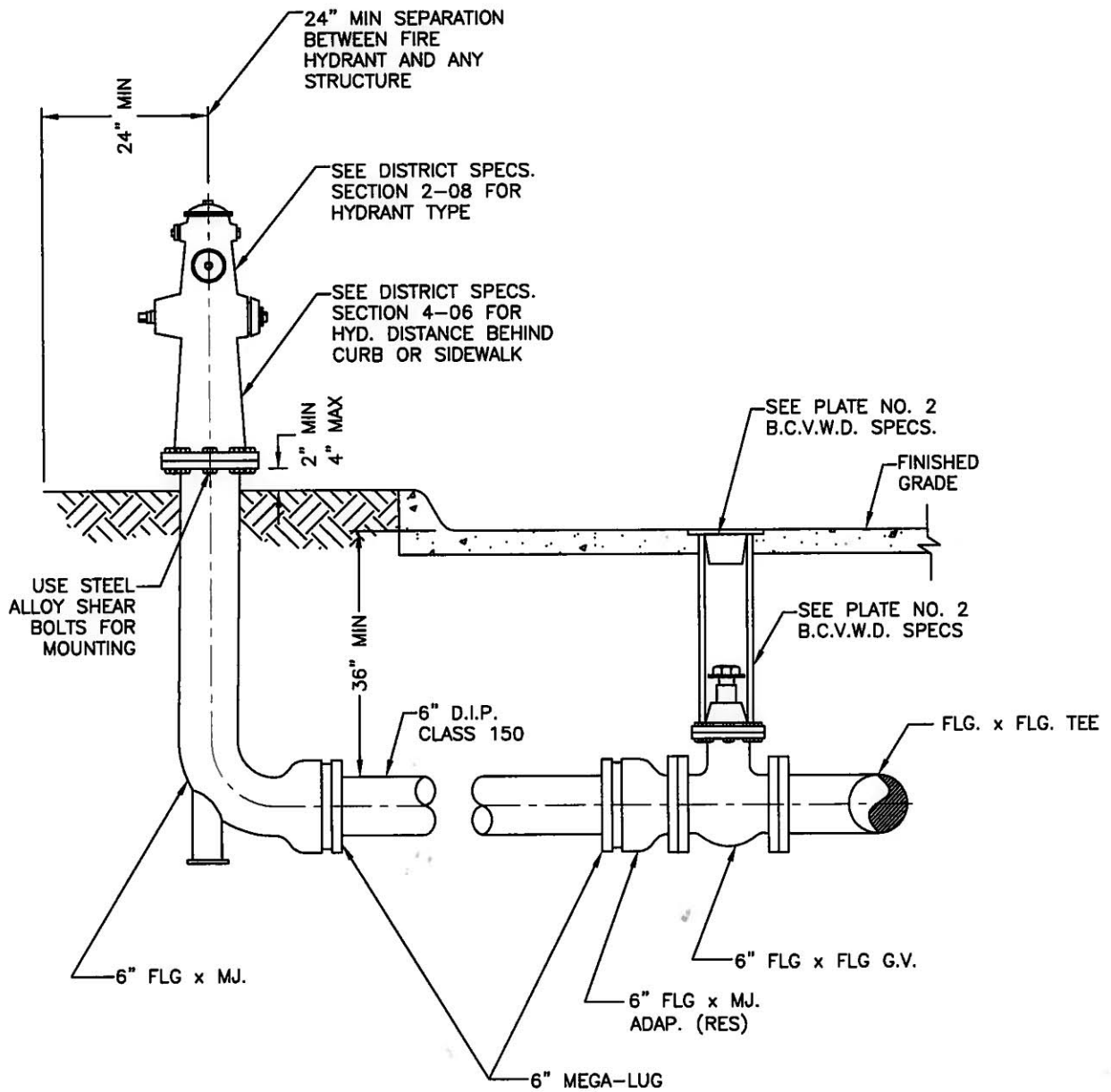
THE SPECIAL CONSTRUCTION REQUIREMENTS SHALL APPLY TO SEWER HOUSE LATERALS THAT CROSS ABOVE A WATER MAIN, BUT NOT TO THOSE SEWER HOUSE LATERALS THAT CROSS BELOW A WATER MAIN.

CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.

CONCRETE ENCASEMENT SHALL EXTEND 10' BEYOND WATER SERVICE ON BOTH SIDES.

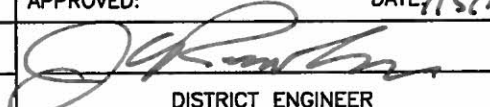
NOT TO SCALE

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|--------|--|--------------|--|---------------|
| REVISD | PREPARED BY: PARSONS | DATE: 08/06 | BEAUMONT CHERRY VALLEY WATER DISTRICT | |
| 12/10 | APPROVED: | DATE: 1/5/11 | | |
| |  DISTRICT ENGINEER | | HOUSE WATER AND SEWER LATERAL CROSSINGS | PLATE D4-4 |

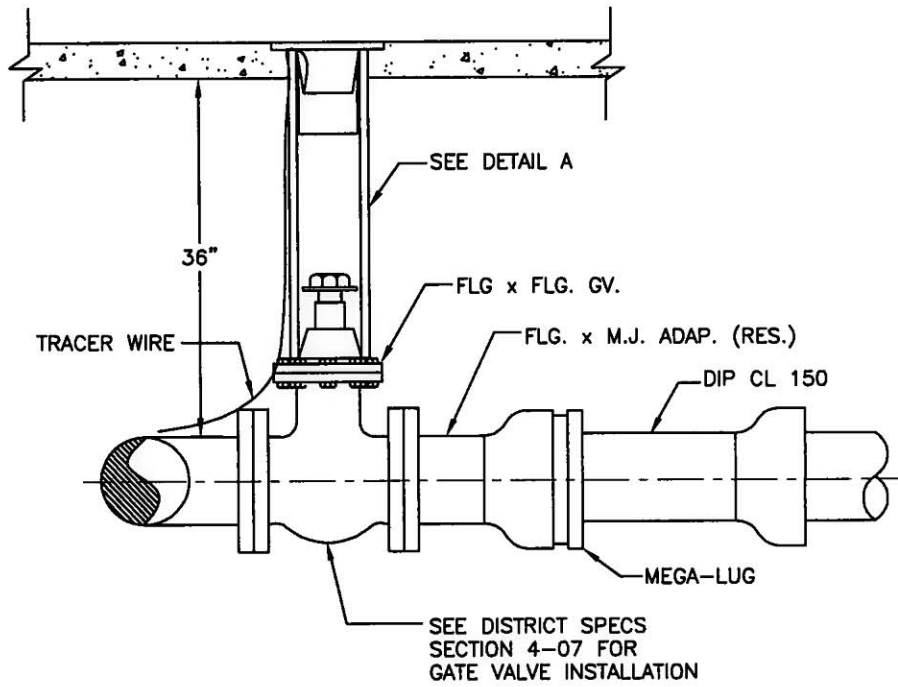


NOTE:
SHEAR BOLTS SHALL BE USED EVEN IF BREAK AWAY SPOOLS ARE USED ON TOP OF BURY.

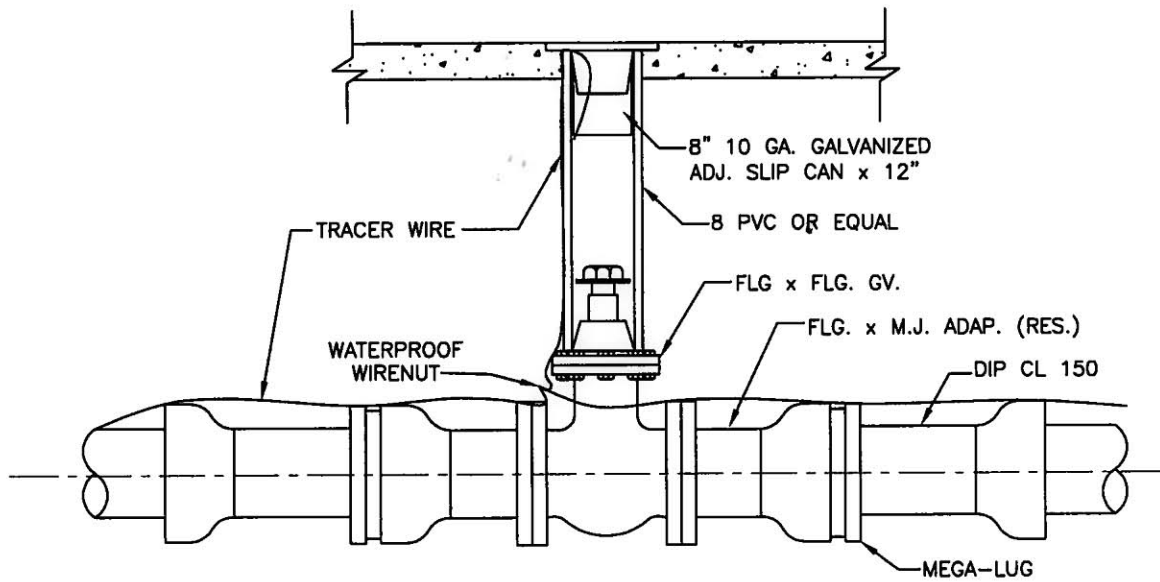
NOT TO SCALE

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|---------|--|---------------|--|------------|
| REVISED | PREPARED BY: PARSONS | DATE: 08/06 | BEAUMONT CHERRY VALLEY WATER DISTRICT | |
| 12/10 | APPROVED: | DATE: 1/12/11 | | |
| |  DISTRICT ENGINEER | | STANDARD FIRE HYDRANT | PLATE 1 |

FILE: X:\BCVWD_Projects\District_Projects\Standards\Plates

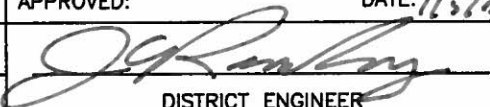


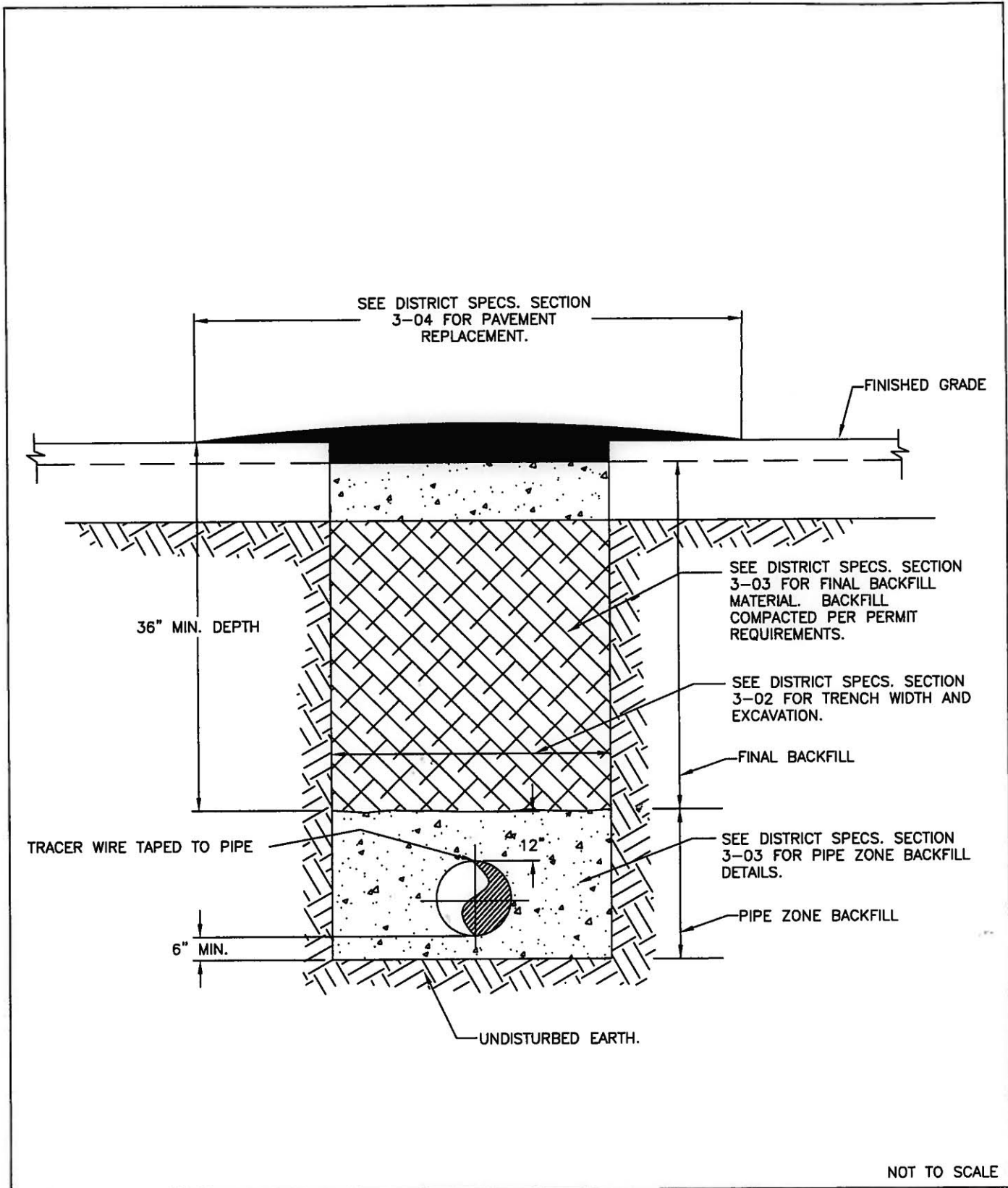
DETAIL B--(LATERAL VALVE)




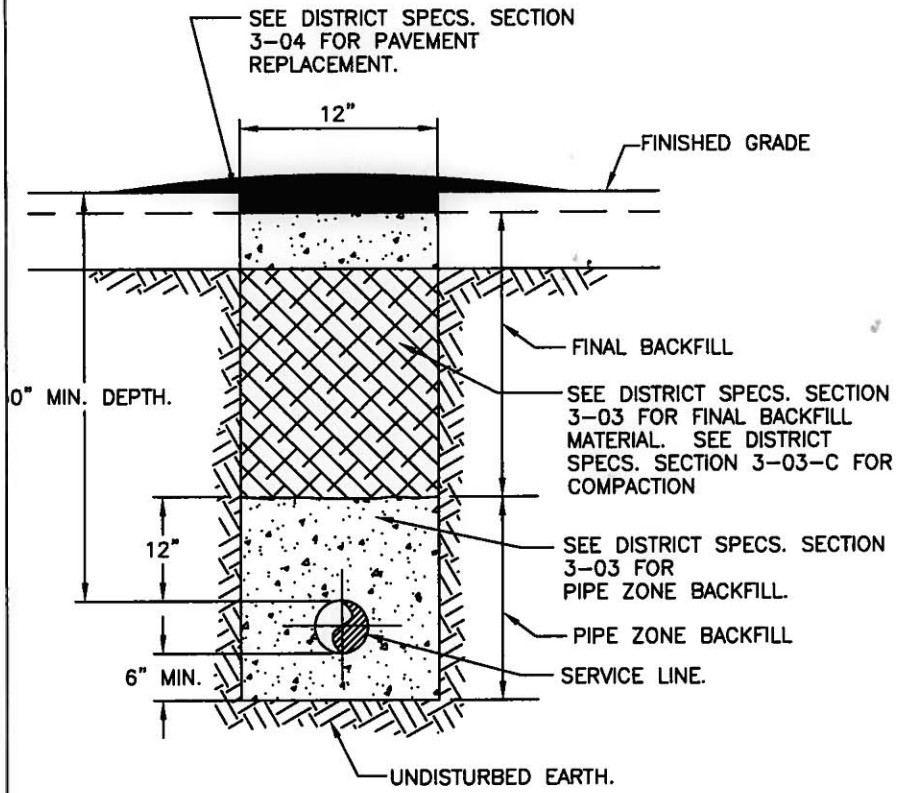
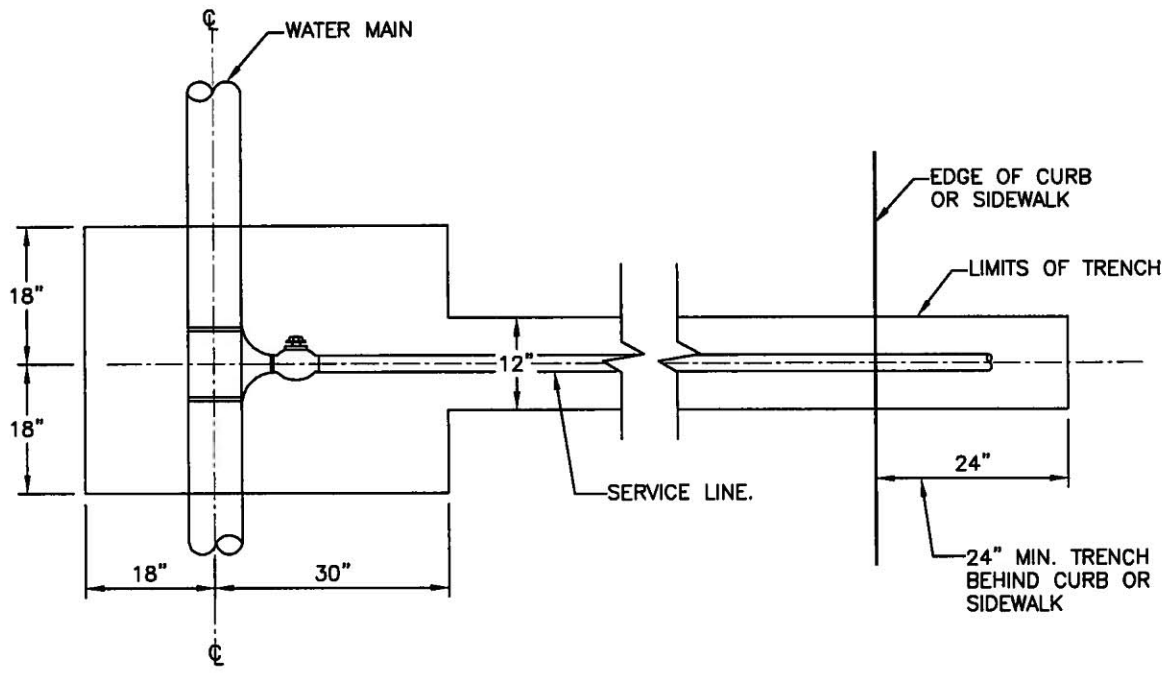
DETAIL-A (IN LINE VALVE)

NOT TO SCALE

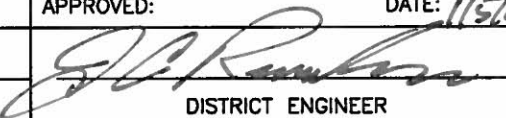
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| REVISED | PREPARED BY: PARSONS | DATE: 08/06 | BEAUMONT CHERRY VALLEY WATER DISTRICT | |
| 12/10 | APPROVED: | DATE: 11/5/10 | | |
| |  DISTRICT ENGINEER | | GATE VALVE/VALVE CAN INSTALLATION | PLATE 2 |



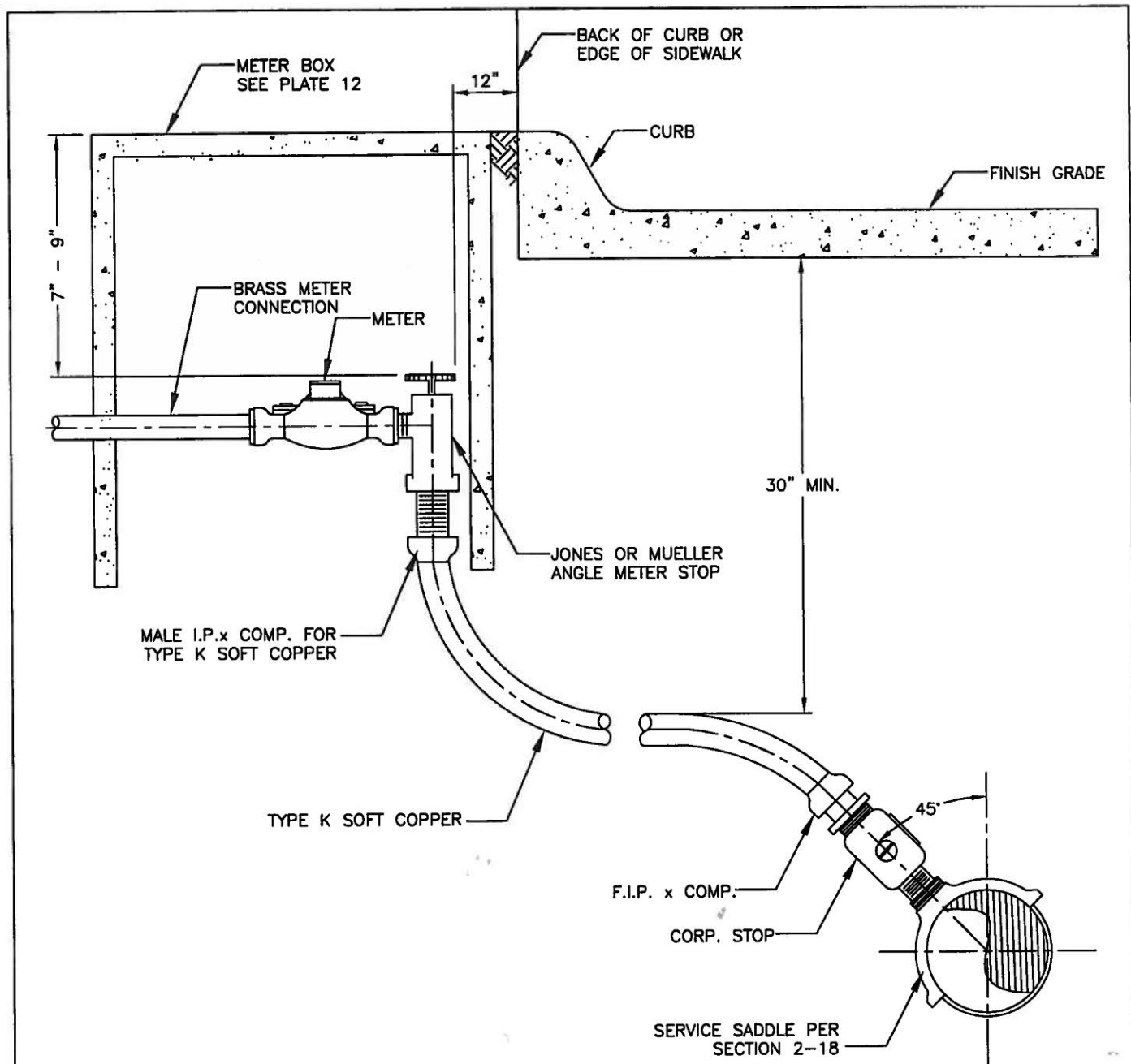
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| REVISED | PREPARED BY: PARSONS | DATE: 08/06 | BEAUMONT CHERRY VALLEY WATER DISTRICT | |
| 12/10 | APPROVED: | DATE: 1/5/11 | | |
| |  | | TRENCH DETAIL | PLATE 6-1 |
| | DISTRICT ENGINEER | | | |



NOT TO SCALE

| | | | | |
|--|----------------------|---------------|--|--------------|
| REVISED | PREPARED BY: PARSONS | DATE: 08/06 | BEAUMONT CHERRY VALLEY WATER DISTRICT | |
| 12/10 | APPROVED: | DATE: 11/5/11 | | |
|  DISTRICT ENGINEER | | | SERVICE TRENCH DETAIL | PLATE 6-2 |

FILE: X:\BCVWD_Projects\District_Projects\Standards\Plates



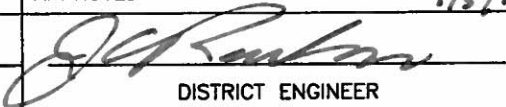
NOTES:

NO INTERMEDIATE COUPLINGS ARE ALLOWED BETWEEN CORPORATION STOP AND ANGLE METER STOP.

MINIMUM SPACING BETWEEN ANY 2 ADJACENT SADDLES ON THE MAIN LINE SHALL BE 18".

SERVICE LINE SHALL BE FREE OF KINKS AND COUPLINGS. ALL SERVICES WITH KINKS OR COUPLINGS SHALL BE REMOVED FROM CORPORATION STOP AT THE MAIN.

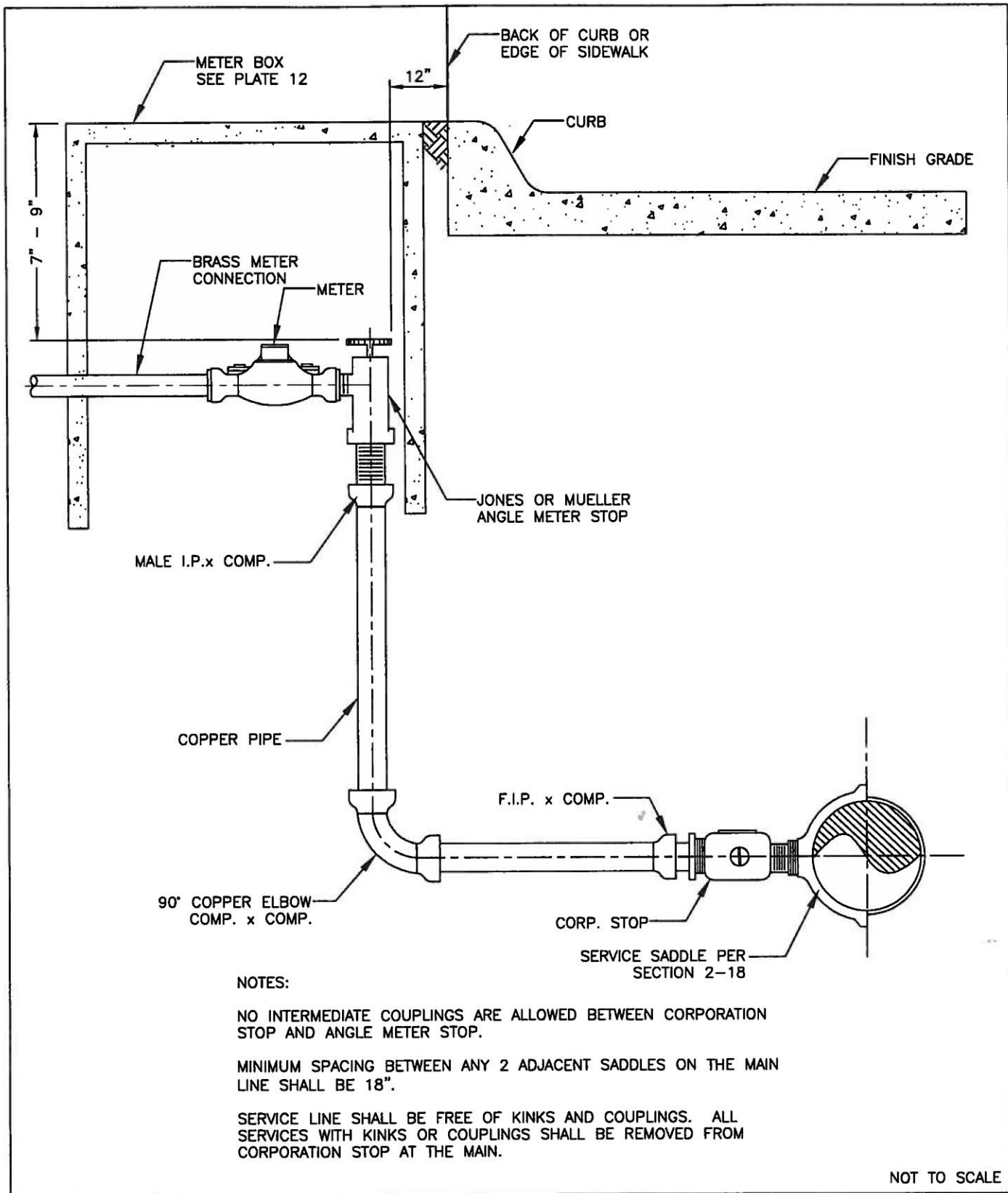
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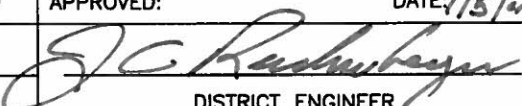
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| REVISED | PREPARED BY: PARSONS | DATE: 08/06 |
| 12/10 | APPROVED: | DATE: 1/5/11 |
|  | | |
| DISTRICT ENGINEER | | |

BEAUMONT CHERRY VALLEY
WATER DISTRICT

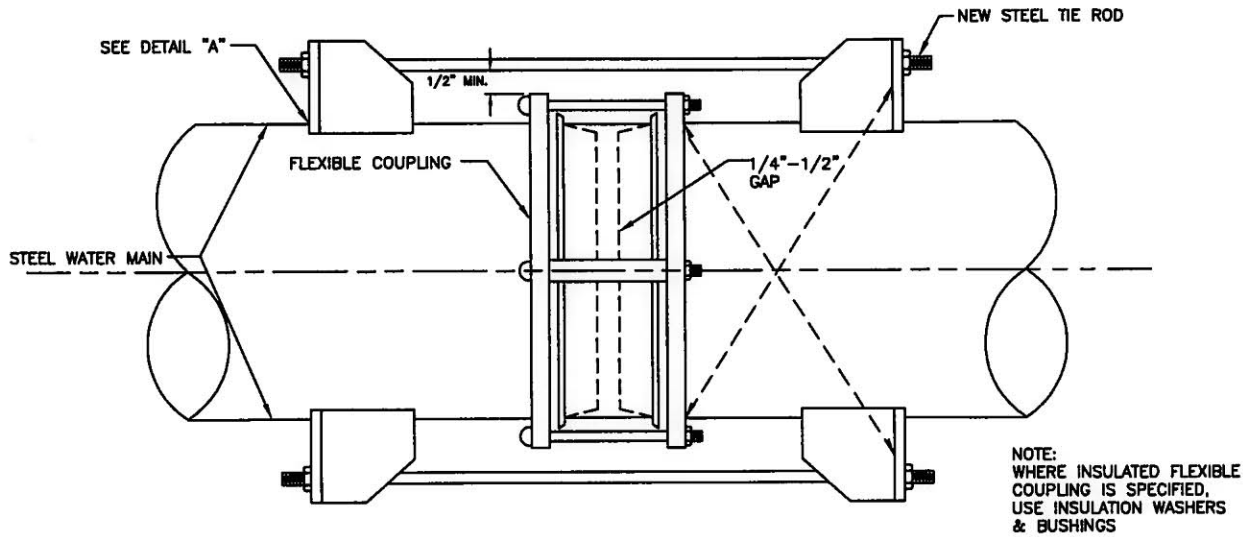
1" SERVICE LINE DETAIL

PLATE
6-3

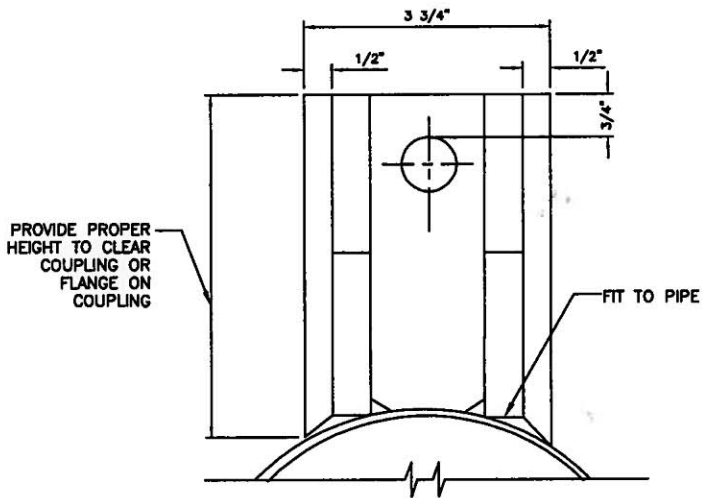


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| REVISED | PREPARED BY: PARSONS | DATE: 08/06 |
| 12/10 | APPROVED: | DATE: 1/5/11 |
|  DISTRICT ENGINEER | | |

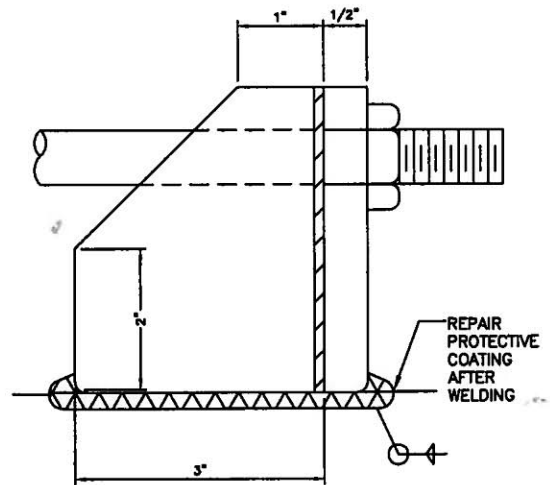
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| BEAUMONT CHERRY VALLEY WATER DISTRICT | |
| 2" SERVICE LINE DETAIL | PLATE 6-4 |



PLAN VIEW

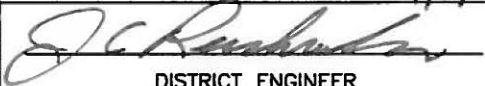


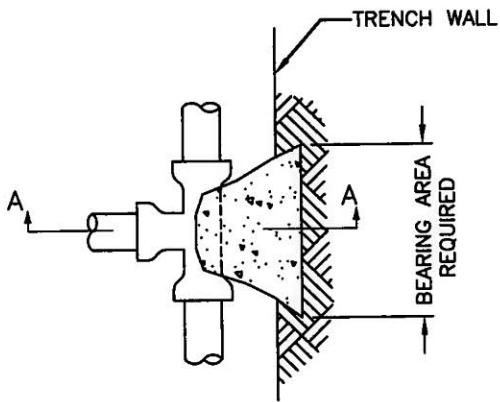
DETAIL "A"



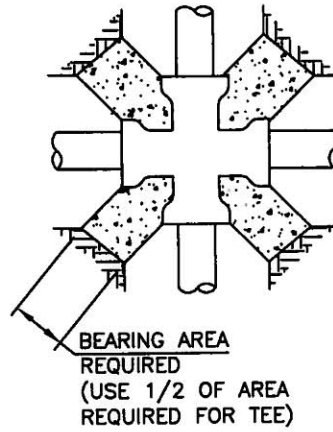
- NOTE:
1. INSTALL TIES ALONG THE HORIZONTAL AXIS OF PIPELINE.
 2. CONTRACTOR TO FURNISH COAL TAR ENAMEL AND PAINT ALL EXPOSED SURFACES.
 3. HARNESS LUG DESIGN SHALL BE PER AWWA M-11.

NOT TO SCALE

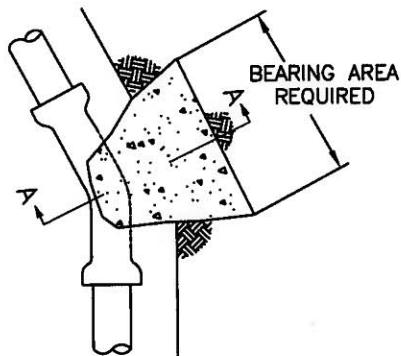
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| REVISED | PREPARED BY: PARSONS | DATE: 08/06 | BEAUMONT CHERRY VALLEY WATER DISTRICT | |
| 12/10 | APPROVED: | DATE: 11/5/11 | | |
| |  DISTRICT ENGINEER | | FLEXIBLE COUPLING TIE DETAILS | PLATE 9 |



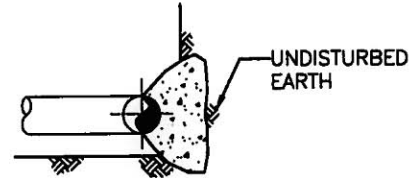
TEE



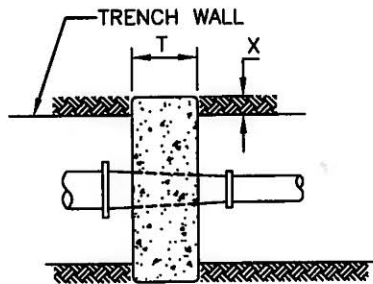
CROSS



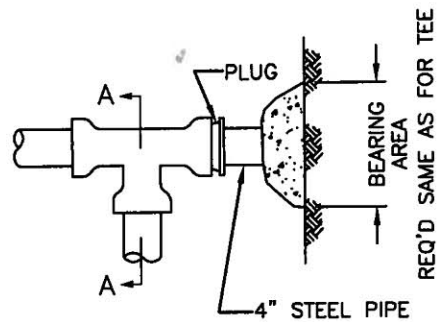
HORIZONTAL ELBOW



SECTION A




REDUCER



TEE WITH PLUG

NOTE:
FOR THRUST BLOCK SIZES SEE PLATE NO. 11-2.

NOT TO SCALE

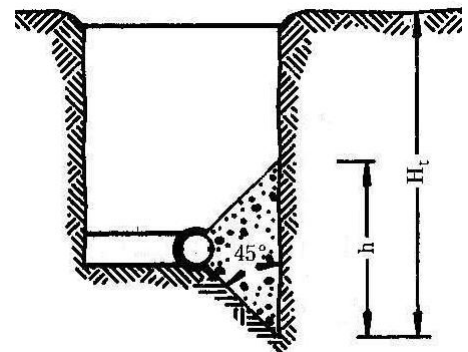
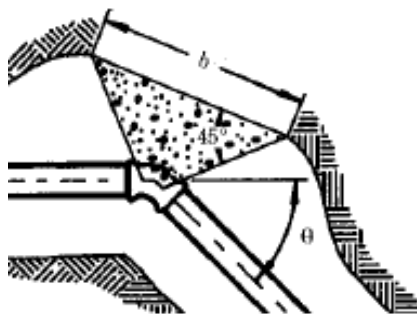
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|--|----------------------|---------------|--|---------------|
| REVISED | PREPARED BY: PARSONS | DATE: 08/06 | BEAUMONT CHERRY VALLEY WATER DISTRICT | |
| 12/10 | APPROVED: | DATE: 1/13/11 | | |
|  DISTRICT ENGINEER | | | THRUST BLOCK DETAILS | PLATE 11-1 |

**Beaumont Cherry Valley Water District
THRUST BLOCK SIZE FOR
HORIZONTAL PRESSURES
(BASED ON 2500 LB/SQ.FT. BEARING PRESSURE)**

| PIPE DIA | PIPE CLASS | PRES psi | Area in Square Feet | | | | |
|----------|------------|----------|---------------------|----------|----------|-----------|-----------|
| | | | Tee | 90° Bend | 45° Bend | 22½° Bend | 11¼° Bend |
| 6 | 150 | 150 | 3.4 | 4.8 | 2.6 | 1.3 | 0.7 |
| | | 225 | 5.0 | 7.1 | 3.9 | 2.0 | 1.0 |
| 8 | 150 | 150 | 5.8 | 8.2 | 4.4 | 2.3 | 1.1 |
| | | 225 | 7.7 | 10.9 | 5.9 | 3.0 | 1.5 |
| 10 | 150 | 150 | 8.7 | 12.3 | 6.7 | 3.4 | 1.7 |
| | | 225 | 13.1 | 18.5 | 10.0 | 5.1 | 2.6 |
| 12 | 150 | 150 | 12.3 | 17.4 | 9.4 | 4.8 | 2.4 |
| | | 225 | 18.5 | 26.1 | 14.1 | 7.2 | 3.6 |
| 14 | 150 | 150 | 16.5 | 23.4 | 12.7 | 6.5 | 3.2 |
| | | 225 | 24.8 | 35.1 | 19.0 | 9.7 | 4.9 |

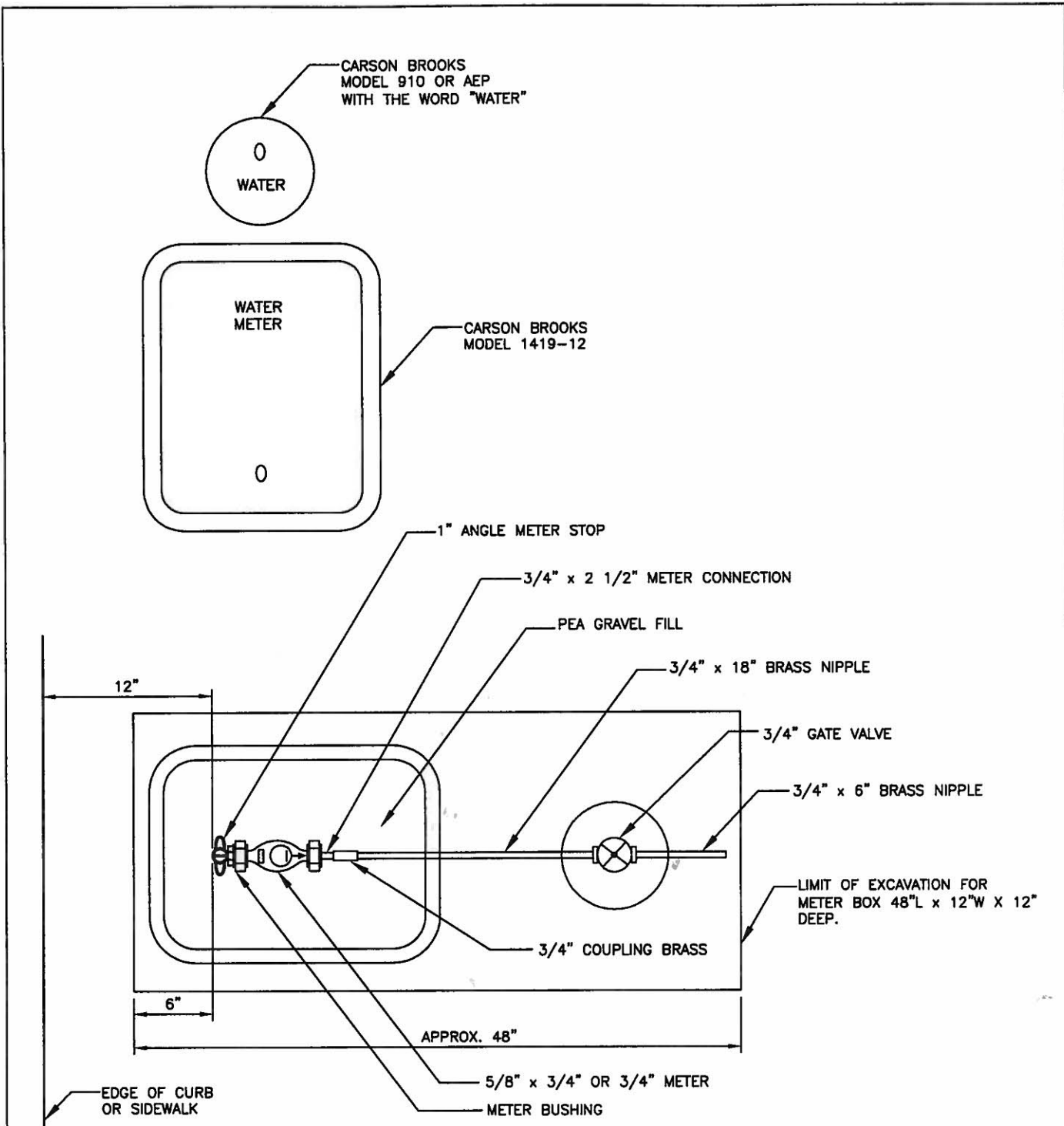
REDUCERS

| Reducer Size | Pipe Class | Pressure (psi) | Dimensions | | |
|--------------|------------|----------------|------------|----------|-----|
| | | | b | h | t |
| 8 X 6 | 150 | 150 | 14" | 2' - 2" | 12" |
| | | 225 | 18" | 2' - 6" | 12" |
| 10 X 8 | 150 | 150 | 16" | 2' - 4" | 12" |
| | | 225 | 20" | 2' - 10" | 12" |
| 12 X 10 | 150 | 150 | 18" | 2 - 6" | 12" |
| | | 225 | 20" | 3' - 4" | 12" |
| 14 X 12 | 150 | 150 | 18" | 2 - 10" | 12" |
| | | 225 | 22" | 3' - 6" | 12" |



General criteria for bearing block design:

1. Bearing surface should, where possible, be placed against undisturbed soil. Where it is not possible, the fill between the bearing surface and undisturbed soil must be compacted to at least 90% Standard Proctor density.
2. Block height (h) should be equal to or less than one-half the total depth to the bottom of the block, (H_T), but not less than the pipe diameter (D).
3. Block height (h) should be chosen such that the calculated block width (b) varies between one and two times the height.
4. For bearing capacities less than 2500 LB/SQ.FT. a proportional increase in bearing area will be required. Provide supporting geotechnical report.



NOTE:
 5/8" x 3/4" & 3/4" METER INSTALLATIONS FOR THIS SIZE BOX ONLY.
 LARGER METERS 1" 1220-12, 1 1/2" & 2" 1730-12 BOXES.

NOT TO SCALE

| | | | | |
|---------|----------------------|--------------|--|-------------|
| REVISID | PREPARED BY: PARSONS | DATE: 08/06 | BEAUMONT CHERRY VALLEY WATER DISTRICT | |
| 12/10 | APPROVED: | DATE: 1/5/11 | | |
| | <i>J.C. R...</i> | | METER BOX INSTALLATION | PLATE 12 |
| | DISTRICT ENGINEER | | | |