



ADDENDUM 1

SUBJECT: Culebra Park Area Streets (2022 Bond)
(ID No.: 23-03873), Date of Issue: **Wednesday, November 26, 2025**
Scheduled to Close: **Extended to: Tuesday, January 13, 2026**

FROM: Jaime E. Contreras, Procurement Manager

DATE: January 06, 2026

THIS NOTICE SHALL SERVE AS ADDENDUM NO. 1 – TO THE ABOVE REFERENCED INVITATION FOR BIDS

This addendum is separated into sections for convenience; however, all Respondents, and other parties shall be responsible for reading the entire addendum. The failure to list an item or items in all affected sections of this addendum does not relieve any party affected from performing as per instructions, providing that the information is set forth one time any place in this addendum. These documents shall be attached to and become part of the Contract Documents for this project. The Respondent shall be required to acknowledge the receipt of this addendum.

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1. The following changes and/or additions to the Contract Documents, via this addendum, shall apply to submittals made for and to the execution of the various parts of the work affected thereby.
 2. Careful note of the addendum shall be taken by all interested parties and all trades affected shall be fully advised in their performance of the work involved.
 3. This Addendum is hereby made part of the project requirements and contract documents for the above reference project. Ensure to acknowledge this Addendum in Civcast when downloading this Addendum. Acknowledgement of this Addendum is a requirement to submit bid in Civcast.
 4. This addendum consists of the items and their associated attachments as listed below:

THE ABOVE-MENTIONED INVITATION FOR BIDS IS HEREBY AMENDED AS FOLLOWS:

CHANGES TO 010-INVITATION FOR BIDS

1. **ADD** – SAN ANTONIO WATER SYSTEM – Joint Bid Project Contract Acknowledgement Form. (Required Upload)
2. The bid submittal deadline has been extended to **Tuesday, January 13, 2026, at 2:00 PM CT.**

ADMINISTRATIVE CHANGES TO SOLICATION DOCUMENTS

1. **ADD TO BID FORM – Alternate 1 -COSA Incentive, item SP999 Early Completion Incentive**– Notwithstanding any language in the contract documents to the contrary, this contract allows for an early completion incentive of \$485/day with a maximum incentive of \$43,650 if the project is completed early. The early completion incentive is not affected by additional calendar days added via change order as long as the project is completed before the new completion date (the original calendar days plus any additional change order calendar days added). The early completion incentive is contingent upon sufficient budget to fund the incentive. If there is not enough project budget after accepting the lowest responsible bid, the City reserves the right to adjust or remove the early completion incentive. Contingent upon sufficient funding, the early completion incentive amount will be confirmed and included in the contract award subject to City Council approval.

1. **WAGE DECISION-**

- a. Current: General Decision Number: TX20250291 09/19/2025
- b. Revised: General Decision Number: TX20260291 1/02/2026

QUESTIONS SUBMITTED IN ACCORDANCE WITH THE 040 STANDARD INSTRUCTIONS TO BIDDER/RESPONDENT:

QUESTIONS SUBMITTED ON CIVCAST

Question 1: On the SAWS portion of this bid for Mobilization and Preparing ROW should the quantity be one (1) for each?

Response: Yes, the Mobilization and Preparing ROW quantity should be (1) each for the SAWS Water work and (1) each for the SAWS Sewer work.

Question 2: Line item 3A and 3B are for inspection services, what are the qualifications acceptable to inspect the CPS work? Will inspections be a third party QAQC provider?

Response: CPS gas inspector will inspect work.

Question 3: Are there any long or short services to be installed?

Response: There are no new long or short services to be installed. All long and short services will be relays.

Question 4: How will trench restoration be addressed?

Response: Please see SAWS Specification 804 Excavation Trenching and Backfill. Under payment, it is stated that no direct payment will be made for trenching, backfilling, or placement of temporary all-weather material. All costs for these items shall be included in the contract price for the item to which the work pertains. Note that the minimum surface is stated under the Trench Surface Restoration section as 4 inches of hot-mix cold lay asphaltic black base.

Question 5: How will Gas Main tie ins be paid?

Response: These are not paid as a separate item. These are paid with main line installation.

Question 6: How will Gas main valves be paid?

Response: These are not paid as a separate item. These are paid with main line installation.

Finance Department, Procurement Division

P.O. Box 839966 | San Antonio, Texas 78283-3966 | 210.207.5734

Question 7: Unit Price Bid Form item “Portland Cement Concrete Driveways” engineers’ quantity is 2,853 sy. My takeoff is much less. Please verify quantity.

Response: This quantity was incorrect. Please see the updated summary sheets.

Question 8: Removal items “concrete curb” & “concrete sidewalks & driveways” are not clear. Can Demo sheets be added for clarification?

Response: The removal quantities have been updated. Please see the updated summary sheets. An exhibit showing the locations of curb and sidewalk removal will be provided. Existing driveway removals will be subsidiary to item 503 Asphaltic Concrete, Portland Cement Concrete, and Gravel Driveways.

Question 9: Determining quantity of chainlink fence to be removed is difficult with information provided. Can a quantity be provided?

Response: The quantity for the chain link fence is shown on the summary sheet at 793 LF. Note that not all of this chain link fence may be required to be removed but is dependent on the ability to tie into the adjacent property.

Question 10: Plan sheet 147 has proposed 42” rcp @ 157 lf. There is no bid item for this material. Can a bid form line be added for this material?

Response: This item will be added to the Bid Form.

Question 11: Under the SAWS joint bid section of the bid form, the item “casing or liner for jacking, boring, or tunneling 24” steel” has 2 lines. One is for 234 lf and the other 229 lf. What is the difference between these two lines?

Response: The 234 LF references the Water design for the steel casing and corresponding Bid Items, and the 229 LF references the addition of spilt casing to the existing Sanitary Sewer lines and corresponding Bid Items.

Question 12: CPS joint bid does not have a line for ½” or 1 ¼” gas line. Can a bid form line be added for this material?

Response: Service replacements for these lines will be paid for under CPS item 17A or 17B as applicable.

Question 13: CPS gas plan pages 211 & 214 indicates existing 2” gas line is to be lowered. Can you please provide a quantity of how much gas line is to be lowered?

Response: Please see updated proposed gas line sheets.

REVISIONS TO CONSULTANT'S DOCUMENTS (SPECIFICATIONS, PLANS, ETC.)

1. SHEET 2 – INDEX OF SHEETS
 - a. REPLACE SHEET 2 WITH REVISED SHEET. ADDED ADDITIONAL SHEETS FOR GAS RELOCATION SHEETS
2. SHEETS 7-10 – PROPOSED TYPICAL SECTIONS
 - a. REPLACED SHEETS 7-10 WITH REVISED SHEETS. ADDED PAVEMENT NOTE.
3. SHEET 11 – DRIVEWAY SUMMARY
 - a. REPLACED SHEET 11 WITH REVISED SHEET. UPDATED QUANTITIES ARE CLOUDED.
4. SHEET 12 – DRIVEWAY SUMMARY
 - a. REPLACED SHEET 12 WITH REVISED SHEET. UPDATED QUANTITIES ARE CLOUDED.
5. SHEET 15 – SUMMARY OF QUANTITIES
 - a. REPLACED SHEET 15 WITH REVISED SHEET. UPDATED QUANTITIES ARE CLOUDED.
6. SHEETS 201-214 – GAS RELOCATION SHEETS
 - a. REPLACED SHEETS 201-214 WITH REVISED SHEETS (SHEETS 201-218). ADDED 4 SHEETS.
7. BID FORM – UPDATED LINE ITEMS AND QUANTITIES
 - a. UPDATE QUANTITY FOR ITEM 103.3 REMOVE CONCRETE SIDEWALKS & DRIVEWAYS FROM 16,321 SF TO 7,888 SF
 - b. ADD LINE ITEM 401.1 REINFORCED CONCRETE PIPE (CLASS III)(42" DIA) AND QUANTITY OF 157 LF
 - c. UPDATE QUANTITY FOR ITEM 503.1 PORTLAND CEMENT CONCRETE DRIVEWAYS FROM 2,853 SY TO 1,743 SY
 - d. UPDATE QUANTITY FOR ITEM 503.1 PORTLAND CEMENT CONCRETE DRIVEWAYS (PENETRATION) FROM 723 SY TO 1,099 SY
 - e. REMOVE THE FOLLOWING CPS BASE BID LINE ITEMS
 - i. (CPS) 510-03 2" PLA GAS PIPE
 - ii. (CPS) 510-03 1" PLA GAS PIPE
 - iii. (CPS) 520-15 PIPE FITTINGS
 - iv. 1A #14 TRACER WIRE
 - v. 2A 2" STEEL FITTINGS
 - vi. 3A MAIN INSPECTION
 - vii. 3B SERVICE INSPECTION
 - f. ADD THE FOLLOWING CPS BASE BID LINE ITEMS
 - i. 1A - INSTALL GAS MAIN OR CASING BY TRENCHING (LF DISTANCE AS-MEASURED ALONG TOP OF TRENCH), 2" PLASTIC PIPE AND TRACER WIRE – LF – 1026
 - ii. 1C - INSTALL GAS MAIN OR CASING BY TRENCHING (LF DISTANCE AS-MEASURED ALONG TOP OF TRENCH), 4" PLASTIC PIPE AND TRACER WIRE – LF – 1480

- iii. 4A - ASPHALT - STREET RESTORATION ADJUSTMENT, WHEN REQUIRED. TO BE USED AS DIRECTED BY THE CPS ENERGY REPRESENTATIVE - 2" TYPE D WMA W/10" TYPE B WMA – SF – 800
- iv. 4B - FLOWABLE FILL - STREET RESTORATION ADJUSTMENT, WHEN REQUIRED. TO BE USED AS DIRECTED BY THE CPS ENERGY REPRESENTATIVE – CY – 300
- v. 4D - CONCRETE - STREET RESTORATION ADJUSTMENT, WHEN REQUIRED. TO BE USED AS DIRECTED BY THE CPS ENERGY REPRESENTATIVE – CY – 100
- vi. 4E - CONCRETE/FLATWORK - STREET RESTORATION ADJUSTMENT, WHEN REQUIRED. TO BE USED AS DIRECTED BY THE CPS ENERGY REPRESENTATIVE – SF – 200
- vii. 17A - CIVIC SERVICE REPLACEMENT RERUN AND LOWER GAS SERVICE OFF NEW MAIN (MAIN TO METER) SIZES 1/2" THRU 1-1/4", SHORT SIDE – EA – 9
- viii. 17B - CIVIC SERVICE REPLACEMENT RERUN AND LOWER GAS SERVICE OFF NEW MAIN (MAIN TO METER) SIZES 1/2" THRU 1-1/4", LONG SIDE – EA – 3
- ix. 21A - T - PUMP TEST AND TIE-OVER EXISTING SERVICE TO NEW MAIN - SIZES 1/2" THRU 1-1/4" – EA – 12

8. CULEBRA LIST OF SPECS TOC
 a. REPLACED WITH UPDATED TOC

9. CPS STANDARD SPECIFICATIONS
 a. ADD GAS-1,-2,-3,-4
 b. ADD GAS-7_FORM

SIGNED AND SEALED BY CONSULTANT (Engineer/Architect of Record). By signing and sealing this addendum, the Engineer/Architect of Record acknowledges that the sign/seal is only for changes/clarifications to the items associated with the Engineer's/Architect's work referenced in this addendum.



Jaime E. Contreras

Jaime E. Contreras
 Procurement Manager
 Finance Department - Procurement Division



**CITY OF SAN ANTONIO, TEXAS
SAN ANTONIO WATER SYSTEM
JOINT-BID PROJECT CONTRACT ACKNOWLEDGEMENT**

_____ (Contractor), a _____ (Entity Type) authorized to do business in the State of Texas (hereafter referred to as “Contractor”) with its primary business location at _____ (Address), _____ (City), _____ (State) _____ (Zip code), hereby acknowledges and agrees that it is entering into a construction contract with both the City of San Antonio, Texas, a Texas Municipal Corporation and home-rule City (hereafter referred to as “City” or “COSA”) by and through its designated representative; and with the San Antonio Water System (hereafter referred to as “SAWS”) by and through its Chief Executive Officer and as authorized by its Board of Trustees (collectively, City and SAWS may be referred to separately as “Owner” or collectively as “Owners”), in order to construct the _____ (“The Project”), _____ (Project Number). Owners and Contractor individually shall be referred to herein as “a Party” and collectively referred to herein as “the Parties”. Contractor acknowledges and accepts that all terms, conditions, and amendments contained in the Project solicitation and Contractor’s submittal in response to the solicitation remain in place. This Acknowledgement supplements the rights and obligations between Owners and Contractor and does not determine the rights and obligations between the Owners. The Owners have entered one or more Memorandum(s) of Understanding (“MOU”), separate from this Acknowledgement.

Article 1. Scopes of Work – City of San Antonio will provide the funds, direction, and approvals for construction, repairs, improvements, and realignment of the street, storm water, and surface water infrastructure and improvements (“City Scope of Work”); and

SAWS will provide the funds, direction, and approvals for construction, repairs, improvements, and realignment of the water, wastewater, recycled water, and chilled water (if applicable) scopes of work, as shown on designated plan sheets and generally labeled as SAWS Project No. _____ (SAWS Project No.) (“SAWS Scope of Work”).

Additional scopes of work may include natural gas and/or power under the general direction of City Public Service Energy (“CPS”) and other subsurface utilities such as telecommunications.

Article 2. Identification of each Owner Cost – It is the intent for the fees, expenses and costs attributable to SAWS Scope of Work, and City Scope of Work to be separated and identified to the greatest extent possible.

In addition to the Schedule of Values requirements in the Contact Documents, and to the extent commercially possible, each line item in the Schedule of Values shall identify and break out the costs attributable to SAWS Scope of Work and City Scope of Work.

In addition to the Payment Application requirements in the Contract Documents, and to the extent commercially possible, each Payment Application shall identify and break out the construction fees attributable to SAWS Scope of Work and City Scope of Work.

The total Project construction cost accepted by owners is not to exceed \$ _____, of which SAWS will be responsible for \$ _____.

Article 3. Contract Documents – Contract Documents include but are not limited to this Acknowledgement, City’s Ordinance awarding the Project, SAWS’s Resolution awarding its scope of the Project, solicitation documents, Contractor’s proposal, City’s General Conditions, SAWS’ General Conditions (attached hereto as Exhibit I and incorporated by reference for all purposes herein if not already included in the solicitation documents), SAWS Supplemental Conditions (attached hereto as Exhibit II and incorporated by reference for all purposes herein if not already included in the solicitation documents), Form 095 (i.e., SAWS’ Special Conditions) attached hereto as Exhibit III, SAWS Security Procedures attached hereto as Exhibit IV and incorporated by reference for all purposes herein), any Supplementary and additional Special Conditions, the Drawings/Plans, Specifications, details and other documents prepared by the Design Consultant and its Sub-Consultants and by Owners’ other consultants that are accepted by City and SAWS and describe the scope and quality of the materials, supplies, equipment, systems and other elements that are required for construction of the Project. This Agreement is intended to supplement and be read in accord with all other Contract Documents. The Contract Documents form the entire and integrated contractual agreement between Owners and Contractor and supersede all prior negotiations, representations, or agreements, written or oral. When interpreting the word “Owner” or “City” in the solicitation documents and the Contractor’s Proposal, the term shall include BOTH the City and SAWS as necessary to effectuate the intent of this Acknowledgement.

Each separate Owner’s general conditions, special conditions and supplemental conditions will apply to that respective Owner’s Scope of Work; such that for any issues relating to SAWS Scope of Work, the Contractor shall be required to follow the San Antonio Water System terms and conditions and seek determinations and direction from San Antonio Water System; and for any issues relating to City Scope of Work, the Contractor shall be required to follow the City of San Antonio’s terms and conditions and seek determination and direction from City of San Antonio. This includes but is not limited to the following on SAWS Scope of Work: warranty/correction periods (24 months on SAWS Scope of Work), limits on mobilization and preparation of right away costs, limits on allowable markups on Change Orders, establishment in field of all lines and grades for water works, construction staking, additional survey, layout and measurements, and limits on delay damages. For any Work that cannot be reasonably limited to an individual Owner’s Scope of Work, then City of San Antonio’s General Conditions shall apply as amended with Form 095 attached as Exhibit III and with the terms “City” and “Owner” being interpreted to include both City of San Antonio and SAWS.

Article 4. Changes In Terms and Conditions – The terms and conditions of the Contract Documents may be changed only by a Field Work Directive, Change Order, or Amendment executed by both City and SAWS, except as specifically stated in this paragraph. If the Field Work Directive, Change Order, or Amendment adds to or reduces the cost of the project, it shall specifically state the percentage of the cost or credit each Owner is responsible for.

Contractor may rely on a Field Work Directive, Change Order, or Submittal Approval executed solely by SAWS if 1) it affects solely the design or construction of SAWS’ scope of work, 2) does not add any days to the project schedule, and 3) will not result in any increased cost to City.

Contractor may rely on a Field Work Directive, Change Order, or Submittal Approval executed solely by City if 1) it affects solely the design or construction of City’s scope of work, 2) does not add any days to the project schedule, and 3) will not result in any increased cost to SAWS.

Contractor may rely on a Field Work Directive, Change Order, or Submittal Approval executed solely by City after SAWS has accepted substantial completion of its scope of work if 1) it affects solely the design or construction of City's scope of work, and 2) will not result in any increased cost to SAWS.

Owners' Representatives shall mean the individuals designated by City and by SAWS, respectively, to act on their behalf. In no event shall the City's Designated Representative have any implied or express authority to bind SAWS; nor shall the SAWS' Designated Representative have any implied or express authority to bind City, except as stated in this Article.

Article 5. Disagreement Between Owners – In the event there are conflicting determinations by City and SAWS, or in the event City and SAWS cannot agree on a determination, Contractor must immediately notify Owners' Representatives of the perceived conflict or disagreement and seek direction. Contractor is hereby notified that City and SAWS have entered one or more memoranda of understanding addressing the relationships and disputes between City and SAWS.

Article 6. Subcontractors – Before the start of construction, Contractor will identify the individual, firm, equipment vendor, or corporation, that will be performing SAWS's scope of work (the "SAWS Subcontractor"). SAWS reserves the right to reject Subcontractors and sub-tier Subcontractors performing SAWS' Scope of Work if SAWS determines, in exercising its sole judgment, such Subcontractor is not capable in all respects to fully perform the contract requirements, or the integrity and reliability for satisfactory performance. Sub-tier subcontractors must be identified by the subcontractors and be similarly subject to the review of qualifications by SAWS for the performance of a part of the Work. SAWS shall compensate Contractor for any increased change in Contract Price and Contract Time for any additional cost and risk Contractor may incur related directly to SAWS' requiring another subcontractor be used. Contractor shall not be required to contract with anyone with regard to whom Contractor has a reasonable objection, and Contractor shall have full responsibility for all Subcontractors even if recommended or selected by an Owner. Contractor shall make no substitution for any Subcontractor, person, or entity previously selected if an Owner makes reasonable objection to such substitution.

Article 7. Payment and Performance Bonds – Contractor must provide Payment and Performance Bonds naming both City and SAWS as obliges, each in the penal sum of \$_____; in a form acceptable to both Owners. The penal sums of the Payment and Performance Bonds are subject to increase as described herein. The bonds shall each be in accordance with the provisions of Chapter 2253, Texas Government Code.

Article 8. Subsurface Investigations – Upon encountering concealed, unknown, or differing site conditions (as those terms are defined in the applicable Contract Documents), Contractor will assist Owners' and Design Consultants' investigation by using its best efforts to identify the following for Owners' consideration: i) subsurface feature(s) that require additional investigation; ii) a reasonable scope of any investigation; and, iii) to what extent those features differ from existing location information provided by the owner of the feature. This provision is in addition to, not in lieu of, Contractor's obligations upon encountering concealed, unknown, or differing site conditions under the Contract Documents. Contractor should note that the accuracy of this information is important because Owners may rely on it to apportion any additional costs between Owners.

Article 9. Insurance – Contractor shall purchase and maintain in effect, or cause to be procured and kept in effect with the Contractor as a named insured, as appropriate, the insurance policies required in accordance with this paragraph, Exhibit V, or elsewhere in the Contract Documents.

Article 10. Project Administration – Owners will administer their design and construction management through an Internet-based Project Management system (also referred to as “PRIMELink”). Contractor shall conduct communication through this medium and perform all Project-related functions utilizing this management system, to include all correspondences, submittals, Requests for Information, vouchers, payment requests and processing, Amendments, Change Orders and other administrative activities. All references to “CPMS” in SAWS General Conditions shall be deemed to refer to PRIMELink for all purposes.

Submittals: Contractor shall adhere to requirements for Shop Drawing, Product Data, and Samples in the City’s General Conditions including but not limited to “III.11 DOCUMENTS AND SAMPLES AT THE SITE”, provided however, for Shop Drawings, Product Data, Samples, and Submittals relating solely to SAWS’ Scope of Work, Contractor shall adhere to San Antonio Water System’s General Conditions of the Contract, specifically “5.12 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES” and administered through PrimeLink.

SBEDA: Contractor shall comply with City’s SBEDA Ordinance and Procurement Program policies and procedures in compliance with the attached Exhibit VII and as administered and directed by City. The San Antonio Water System’s Small, Minority, and Women Business Program (SMWBP) requirements do not apply.

Article 11. Election Of Remedies and Waivers of Joint Claims

NO JOINT AND SEVERAL LIABILITY: SUBJECT TO THE AVAILABILITY OF FUNDS, AND NOTWITHSTANDING ANYTHING IN THIS CONTRACT TO THE CONTRARY, CONTRACTOR ACCEPTS AND AGREES THAT CITY AND SAWS ARE EACH SEPARATELY LIABLE FOR THEIR OWN SCOPE OF WORK UNDER THIS CONTRACT. ALL OBLIGATIONS OF CITY AND SAWS SHALL BE SEVERAL AND NOT JOINT, AND IN NO EVENT SHALL THE CITY OR SAWS HAVE ANY LIABILITY OR OBLIGATION WITH RESPECT TO THE ACTS OR OMISSIONS OF THE OTHER OWNER. NEITHER CITY NOR SAWS SHALL HAVE ANY EXPRESS OR IMPLIED RIGHT OR AUTHORITY TO ASSUME OR CREATE ANY OBLIGATIONS ON BEHALF OF OR IN THE NAME OF THE OTHER OWNER OR TO BIND THE OTHER OWNER TO ANY CONTRACT, AGREEMENT, OR UNDERTAKING WITH CONTRACTOR OR ANY THIRD PARTY, EXCEPT AS EXPRESSLY STATED IN THIS AGREEMENT.

SEPARATE CLAIMS AND LEGAL PROCEEDINGS: IN THE EVENT OF ANY LITIGATION PURSUED BY CONTRACTOR, CONTRACTOR AGREES THAT IT IS PROHIBITED FROM PURSUING CLAIMS AGAINST CITY AND SAWS UNDER THE SAME LAWSUIT (I.E., THE SAME CAUSE NUMBER). CONTRACTOR AGREES THAT ANY LEGAL ACTION, PROCEEDING, OR CLAIM ARISING OUT OF OR RELATING TO THIS CONTRACT SHALL BE BROUGHT AGAINST THE CITY AND SAWS IN SEPARATE LAWSUITS. CONTRACTOR SHALL NOT, UNDER ANY CIRCUMSTANCES, JOIN THE CITY AND SAWS AS CO-DEFENDANTS IN A SINGLE LEGAL ACTION OR PROCEEDING, WHETHER IN CONTRACT, TORT, OR OTHERWISE. CONTRACTOR FURTHER AGREES THAT ANY ALLEGED WAIVER OF IMMUNITY MUST BE SPECIFIC TO EITHER THE CITY OR SAWS, AND CONTRACTOR AGREES THAT ALLEGED WAIVER BY ONE DOES NOT CONSTITUTE WAIVER BY THE OTHER. IN THE EVENT CITY AND SAWS ARE BOTH NAMED DEFENDANTS WITHIN A SINGLE LAWSUIT, CONTRACTOR AGREES AND COVENANTS TO MAKE AN ELECTION OF REMEDIES AS TO EACH AND EVERY FACTUAL BASIS FOR RECOVERY (E.G., ALLEGED UNPAID ITEM OF WORK, ALLEGED SINGLE INCIDENT CAUSING DELAY, ETC.), AND MUST THEREBY ELECT TO PURSUE ONLY ONE OWNER AS TO EACH AND EVERY CAUSE OF ACTION AND ELEMENT OF CLAIMED DAMAGE RELATED TO THAT FACTUAL BASIS. CONTRACTOR FURTHER AGREES AND COVENANTS TO MOVE THE COURT TO SEVERE THE CLAIMS WITHIN NINETY (90) DAYS OF THE FIRST ANSWER BY EITHER THE

CITY DEFENDANT OR SAWS DEFENDANT IN ANY JOINT LAWSUIT. IN NO INSTANCE MAY CONTRACTOR PURSUE ANY CLAIM AGAINST BOTH CITY AND SAWS. IN NO INSTANCE WILL CITY AND SAWS BE JOINTLY AND SEVERALLY LIABLE FOR ANY RECOVERY.

Article 12. Dispute Resolution – All disputes between Contractor and City arising from this Agreement, as well as those arising on any other City Project, shall be resolved in accordance with the procedures and limitations of Texas Local Government Code Subchapter I, Chapter 271.151et.seq., and City’s General Conditions. All disputes between Contractor and SAWS arising from this Agreement shall be resolved in accordance with Article X of SAWS’ General Conditions. City and SAWS each separately designate their Representatives named for this Project for examining, negotiating, and resolving claims and counterclaims. Owners hereby waive sovereign immunity only in accordance with Section 271.152 of the Local Government Code for its obligations to Contractor arising under this Agreement.

Contractor is hereby put on notice that any dispute between City and SAWS will be resolved by separate dispute resolution process unless, on mutual agreement by City, SAWS, and Contractor, the Parties mutually agree to resolve one or more specified disputed matters by mutual submission to the Dispute Resolution Board authorized by San Antonio City Council and the San Antonio Water System Board of Trustees.

Article 13. Indemnification – ALL PROVISIONS CONCERNING INDEMNITY CONTAINED IN THE GENERAL CONDITIONS OF CITY WILL CONTROL OVER THE PROVISIONS CONCERNING INDEMNITY CONTAINED IN THE GENERAL CONDITIONS OF SAWS. AS NOTED THROUGHOUT THIS AGREEMENT, THE WORD “OWNER” OR “CITY” IN ALL PROVISIONS CONCERNING INDEMNITY SHALL INCLUDE BOTH THE CITY AND SAWS.

Acknowledged and Agreed:

City of San Antonio, by

San Antonio Water System, by

_____ (print name),
its City Manager or Designee

Robert R. Puente,
its President and CEO or Designee

Signature

Signature

Contractor:

_____, by

_____ (print name),
its authorized representative

Signature

**EXHIBIT I - GENERAL CONDITIONS FOR
SAN ANTONIO WATER SYSTEM CONSTRUCTION CONTRACTS,**

EXHIBIT II - SAWS SUPPLEMENTAL CONDITIONS

ARTICLE II- LEGAL RELATIONSHIPS AND RESPONSIBILITIES

Section 2.10 is amended to insert the following:

.2 If work is permitted on a national holiday, as defined by §662.003 (a) of the Texas Government Code (New Year's Day, Martin Luther King Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Christmas Day), the employee holiday rate of pay will be at 1 1/2 times the hourly rate, regardless of number of hours worked for that pay period. Please note: Not all national holidays as defined by §662.003(a) of the Texas Government Code are also SAWS designated holidays.

The remaining sections of Article II shall remain the same.

ARTICLE IV- CONTRACT ADMINISTRATION

Remove Section 4.9.2 of the general conditions and replace with the following:

The Contractor shall not, except upon procuring written consent from proper private parties, enter or occupy with men, tools, materials, or equipment, any privately owned land except for those on easements or rights of entry provided herein by SAWS. Contractor must submit a copy of the written consent from the landowner to SAWS.

The remaining sections of Article IV shall remain the same.

ARTICLE VIII. - CONTRACT COMPLETION TIME

Remove Section 8.6 Liquidated Damages for Failure to Complete on Time: of the General Conditions and replace with the following:

8.6 Liquidated Damages for Failure to Complete on Time – The Contractor agrees that Time Is Of Essence of this Contract and that for each day of delay beyond the number of days herein agreed upon for the completion of work herein specified and contracted for, after due allowance for such extension of time as is provided for under the provisions herein, the Owner may withhold permanently for the Contractor's total compensation, not as a penalty but as liquidated damages, the sum per day in accordance with the City's Supplement Conditions.

The remaining sections of Article VIII shall remain the same.

EXHIBIT III - FORM 095

**SAN ANTONIO WATER SYSTEM
WATERWORKS AND SANITARY SEWER CONSTRUCTION
SPECIAL CONDITIONS**

The following changes are made to the Contract Documents:

1. Add to the Contract Definitions

San Antonio Water System: San Antonio Water System Board of Trustees.

2. Add to the Invitation for Bid

The San Antonio Water System area of construction operations is coincident with the area of construction operations specified in the contract documents for the project. All water and sewer facility adjustment and attendant work as shown on the Plans is considered to be an integral part of the project, and the Contractor shall be responsible for the timely scheduling and accomplishment of all water and sewer main and attendant work in conjunction with the work outlined in paragraph 1 of the City of San Antonio Invitation for Bid.

3. Add to the General Conditions

All resident inspection of water and sewer facility adjustment and attendant work will be performed by an authorized representative of the San Antonio Water System who will in turn be responsible directly to the inspectors designated above.

4. Add to the General Conditions Paragraph

Materials for Water and Sanitary Sewer Main Replacement and adjustments: The Contractor shall also furnish all materials required for the installation of all water and sanitary main replacement and adjustments, service lines, sanitary sewer laterals, manholes and attendant work as shown on the drawings and in accordance with the San Antonio Water System Material Specifications.

5. Add to General Conditions

Water Mains: The Contractor shall be responsible for the establishment in the field of all lines and grades for water works construction utilizing as may be appropriate the survey base control data provided by the Engineer for the work indicated in Paragraph 1 of the City of San Antonio Invitation for Bid. All construction staking, additional survey, layout and measurement work shall also be performed by the Contractor as part of his work.

6. Add to the General Conditions

Warranty/Correction Period for Water and Sewer Works: During a period of 24 months from and after the date of the final acceptance by the San Antonio Water System of the water and wastewater work completed by and through this contract, the Contractor shall make all needed repairs arising out of defective workmanship or materials, or both, which in the judgment of the San Antonio Water System shall become necessary during such period. If within 3 days after the receipt of a notice in writing to the Contractor or his agent, the Contractor shall neglect to make or to undertake with due diligence the aforesaid repairs, the San Antonio Water System is hereby authorized to make such repairs at the Contractor's expense. In case of an emergency where, in the judgment of the San Antonio Water System delay would cause a serious loss or damage, repairs may be made with notice being sent to the Contractor, and the Contractor shall pay the cost thereof.

7. Add to these Contract Documents, the Standard Specifications for Water and Sanitary Sewer Construction, available to the Contractor at the San Antonio Water System or at www.saws.org.
- a. Add the following paragraph to **SAWS Item No. 100 – Mobilization**, to the end of Section 100.1 DESCRIPTION:

The combined total bids for SAWS Mobilization, Item No. 100 and SAWS Preparing Right-Of-Way, Item No. 101 shall not exceed 15% of the SAWS base bid. A SAWS base bid shall be defined as all SAWS bid items excluding Mobilization, Item No. 100 and Preparing Right-Of-Way, Item No. 101.

- b. Add the following paragraph to **SAWS Item No. 101 – Preparation of Right-of-Way**, to the end of Section 101.1 DESCRIPTION:

The combined total bids for SAWS Mobilization, Item No. 100 and SAWS Preparing Right-Of-Way, Item No. 101 shall not exceed 15% of the SAWS base bid. A SAWS base bid shall be defined as all SAWS bid items excluding Mobilization, Item No. 100 and Preparing Right-Of-Way, Item No. 101.

8. Add to these Contract Documents, the San Antonio Water System Special Provisions, attached separately.
9. Add to these Contract Documents, the San Antonio Water System Proposals, attached separately.
10. Add to the General Conditions for Article 7 - Changes in Work for San Antonio Water Systems work that is joint bid the City the following will apply

Change Orders allowable markups for SAWS work is as follows:

ACTUAL COST OF THE WORK – Actual Cost incurred by the Contractor to perform the additional Work. Contractor shall provide a complete breakdown of the

actual costs to the Owner on a daily basis as follows:

Labor including Foremen Materials comprising the Work.

The Contractor's actual incremental ownership or rental cost of equipment during the time of use on the extra Work. (Rental cost may be based on current Southwest Regional AGC, Association of Equipment Distributors regional computations or equivalent)

Power and consumable supplies for the operation of power equipment.

Insurance, any extra bond premiums, Social Security and unemployment contributions, and benefits.

PARTICIPATION ALLOWANCE

ALLOWABLE MARKUPS	Work Performed by PC		Work Performed by Sub A		Work Performed by Sub B	
	Overhead & Profit	Commission	Overhead & Profit	Commission	Overhead & Profit	Commission
Prime Contractor (PC)	20%	---	---	5%	---	5%
Subcontractor A (Sub A)	---	---	20%	---	---	5%
Subcontractor B (Sub B)	---	---	---	---	20%	---
Subcontractor C (Sub C)	SAWS Does Not Allow Mark Up on Sub C					

DEFINITIONS	
Prime Contractor	Owns the contract with City
Subcontractor A	Works directly with Prime Contractor
Subcontractor B	Works directly with Subcontractor A
Subcontractor C	Works directly with Subcontractor B
O&P	Overhead and Profit
Comm.	Commission

EXAMPLE		Sub B Change Order for \$1000	
		Work Performed by Sub B	
		O&P	Comm
Prime Contractor		---	\$63.00
Subcontractor A			\$60.00
Subcontractor B		\$200.00	---
Subcontractor C		---	---
Summary	CO	Mark Up	CO Total
	\$1000.00	\$323.00	\$1323.00

Not more than four categories of percentages, not to exceed the maximum percentages shown above, will be allowed regardless of the number of subtier subcontractors: For proposals covering both increases and decreases in the amount of the Contract, the application of overhead and profit percentages shall be on the net increase in Actual for the Contractor or Subcontractor performing the Work. However, where the Contractor

or first tier Subcontractor receives proposals for additive and deductive amounts from separate subtier subcontractors, the commission shall be allowed on the added amounts prior to subtraction of the credit amounts. The cost of such extra Work shall be added to the Contract Sum by a Written Change Order

The remaining Article 7 remains as per the City General Conditions.

EXHIBIT IV – SAWS’ CERTIFICATE OF INTERESTED PARTIES (Form 1295)

The Texas Government Code §2252.908 and the rules issued by the Texas Ethics Commission found in Title 1, Sections 46.1, 46.3 and 46.5 of the Texas Administrative Code, require a business entity to submit a completed Form 1295 to the San Antonio Water System (SAWS) before SAWS may enter into a contract with that business entity. Form 1295 must be completed online. It is available from the Texas Ethics Commission by accessing the following web address:

https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm.

Print your completed Form 1295 and the certification of filing. Sign Form 1295 in front of a notary and submit it, along with the certification of filing, with your response to this solicitation. In Box 3 of Form 1295, provide the solicitation number shown on the cover page of this solicitation (e.g., IFB 23-00001234, RFQ 23-100001234 or RFCSP 23-00001234).

The following definitions found in the statute and Texas Ethics Commission rules may be helpful in completing the required Form 1295.

“Business entity” includes an entity through which business is conducted with a governmental entity or state agency, regardless of whether the entity is a for-profit or nonprofit entity. The term does not include a governmental entity or state agency.

“Controlling interest” means: (1) an ownership interest or participating interest in a business entity by virtue of units, percentage, shares, stock, or otherwise that exceeds 10 percent; (2) membership on the board of directors or other governing body of a business entity of which the board or other governing body is composed of not more than 10 members; or (3) service as an officer of a business entity that has four or fewer officers, or service as one of the four officers most highly compensated by a business entity that has more than four officers. Subsection (3) of this section does not apply to an officer of a publicly held business entity or its wholly owned subsidiaries.

“Interested Party” means: (1) a person who has a controlling interest in a business entity with whom a governmental entity or state agency contracts; or (2) an intermediary.

“Intermediary,” for purposes of this rule, means a person who actively participates in the facilitation of the contract or negotiating the contract, including a broker, adviser, attorney, or representative of or agent for the business entity who:

- (1) receives compensation from the business entity for the person’s participation;
- (2) communicates directly with the governmental entity or state agency on behalf of the business entity regarding the contract; and
- (3) is not an employee of the business entity or of an entity with a controlling interest in the business entity.

EXHIBIT V – INSURANCE REQUIREMENTS

In addition to the insurance requirements elsewhere in the Contract Documents, Contractor will procure and maintain, and require that its Subcontractors procure and maintain, the insurance coverages set forth in this Exhibit V under forms of policies satisfactory to City and SAWS with the policy limits set forth below. Contractor shall be required to maintain such coverages for the full term of the Agreement and for any longer completed operations periods discussed in this Exhibit. “Owner,” “SAWS,” “City,” “Indemnitee,” “Indemnitees,” “Contractor,” and “Subcontractor” shall each have the meanings set forth in the Agreement.

1. Liability Limits:

- Raise Commercial General Liability (CGL) from \$1M / \$2M aggregate to \$5M per occurrence with a per-project aggregate.
- Auto Liability: increase to \$5 million combined single limit, which may be satisfied through umbrella or excess coverage.
- Maintain Employers’ Liability at \$1M that will protect the Contractor, SAWS, and the City for damages because of bodily injury, sickness, disease of vendor's employees apart from that imposed by Workers' Compensation laws.

2. Extend Completed Operations & Additional Insured Duration:

- Require 5 years of completed-operations coverage post-completion.
- Ensure SAWS and City are both named as Additional Insureds (AI) on ISO CG 20 10 / CG 20 37 endorsements, maintaining status through the post-completion period.

3. Add Pollution & Environmental Coverage:

- Contractor’s Pollution Liability Insurance with limits of \$2,000,000 per claim/occurrence/\$2,000,000 in the aggregate. The policy shall provide either a “claims made” or an “occurrence based” coverage for all claims, liabilities, damages, costs, fees, and expenses of any kind or character arising out of any Pollution Condition(s) (as defined below) that is in any way related to Contractor’s operations, actions or inactions, and completed operations associated with any work performed by Contractor, its subcontractors, or any of their respective employees, agents, representatives, or officers under this Contract.
- If the Policy is “claims made” based, coverage must be maintained for a minimum of thirty-six (36) months after the date that a Conditional Letter of Acceptance is issued, or if the Contract is terminated for any reason, for a minimum of thirty-six (36) months following the date of termination.
- The “claims made” policy retroactive date will be no later than the Contract effective date or the project commencement date, whichever is earliest.
- If the Policy is “occurrence based”, no policy retroactive date is required and, the thirty-six (36) months extension of coverage after the date that a Certificate of Completion is issued, or if the Contract is terminated for any reason, is not required.

- Any exceptions to the above cited coverage forms must be reviewed and approved by SAWS Risk Manager and CITY Risk Manager.
- Pollution Condition(s) means the discharge, dispersal, release or escape of any solid, liquid, gaseous or thermal irritant or contaminant, including, but not limited to, smoke, sewage, vapors, soot, fumes, acids, alkalis, toxic chemicals, medical waste and waste materials into or upon land, the atmosphere or any watercourse or body of water, including groundwater, provided such conditions are not naturally present in the environment in the amounts or concentrations discovered.
- The Contractor's Pollution Liability Insurance will pay on behalf of the Contractor, SAWS and the City all claims, demands, damages, liabilities, costs, fees, and expenses of any kind or character for bodily injury or death, property damage, environmental or natural resource damage, and any fines, fees, assessments or penalties of any kind assessed by any governmental department, agency or commission that result from or are related to a Pollution Condition(s). Coverage will include all subcontractors hired by Contractor to perform any work on the Project or under this Contract.
 - The policy shall also include the following coverage provisions:
 - Provide for bodily injury to include physical injury, sickness, disease, mental anguish, and emotional distress sustained by any person, including death;
 - All costs that are related to or that arise out of or from the investigation or adjustment of any claim or in connection with any court, arbitration, mediation, state administrative hearing, or other proceeding of any kind, including attorney's fees, expert witness fees, costs, charges and expenses of any kind or character, that arise out of or that are related to a Pollution Condition(s);
 - Coverage shall be Primary non-contributory and in addition to any other valid and collectible insurance carried by SAWS and the CITY as respects to this Contract;
 - Coverage for Natural Resource Damages and any fines, fees penalties or assessments by any governmental agency, commission or department related to any Pollution Condition(s);
 - Insured versus Insured exclusion, if found in the policy, shall not apply to a claim by an Insured who qualifies as a Client of the Named Insured under the policy;
 - If Non-Owned Disposal sites are used for disposal of wastes, these sites shall be specifically included under the Contractors Pollution Liability Insurance policy; and
 - Coverage for punitive, exemplary, and multiple damages.
 - Commercial/Business Automobile Liability policy of the Contractor hauling excavated spoil shall either be endorsed to provide coverage under the CA-9948 endorsement or the Contractor's Pollution Liability Insurance policy shall be endorsed to provide transportation coverage beyond the boundaries of the job site.
 - NOTE - For the Contractor's Pollution Liability, declare on the Certificate of Liability Insurance ("Certificate") the coverage form under which this line of insurance is written – either:
 - Claims-made form - if the coverage form declared on the Certificate is the Claims-made form, also include on the Certificate the "Retroactive-date" when this line of coverage was first written or started, or the Contract date or the project commencement date, whichever is earliest; or
 - Occurrence based form – no additional wording required.
- Include Transportation Pollution Liability, either through the auto policy (CA 99 48) or CPL form.

4. Endorsement & Waiver Language:

- Insurance required shall be deemed primary and non-contributory with respect to any insurance or self-insurance carried by SAWS, the City and their employees and agents for liability arising out of operations under this Contract (ISO CG 20 01 04 13 or broader).
- All applicable lines of insurance (GL, Auto, WC) shall be endorsed to provide a Waiver of Subrogation in favor of both SAWS and City.

5. Builder's Risk / Installation Floater Requirements

- The Contractor shall provide Physical Damage Insurance on Builder's Risk Form which insures SAWS and the City for damages to all Property Purchased for, or assigned to, the Project commencing on the start date through completion. Policy limits shall be in an amount equal to the total construction cost contracted herewith. The policy form shall be an All Risk Builders' Risk form and shall include the flood and earthquake endorsements.
- Name SAWS and City as Loss Payees with 100% replacement-cost valuation.

6. Document Verification

- Contractor shall provide full copies of declaration pages and endorsements (not just certificates) to be provided to both City and SAWS prior to work start.
 - For City, comply with instructions in General Conditions or elsewhere.
 - FOR SAWS: Certificates of Insurance must be uploaded into CertFocus by Vertikal RMS System as follows:
 - Upon written confirmation of your selection pending final Board Approval, you will receive a unique URL hyperlink via email to the SAWS Project in the CertFocus by Vertikal system. No Login or Password is required to access the system.
 - Utilizing the assigned project hyperlink, you will be required to upload Certificates of Insurance into the CertFocus System. The certificate will be reviewed for compliance by Vertikal. If the certificate is deemed noncompliant, the certificate will be rejected, and you will be provided with instructions for correction.
 - Questions regarding certificate uploads should be directed to Vertikal RMS at: (877) 576-2378.

WORKERS' COMPENSATION INSURANCE COVERAGE REQUIREMENTS

For information only, the following "WORKERS' COMPENSATION INSURANCE COVERAGE REQUIREMENTS", has been added at the end of this section to comply with Owners' obligations under 28 TAC §110.110.

A. Definitions:

Certificate of coverage ("certificate") - A copy of a certificate of insurance, a certificate of authority to self-insure issued by the division [or a coverage agreement (DWC Form-81, DWC Form-82, DWC Form-83, or DWC Form-84,) showing statutory workers' compensation insurance coverage for the person's or entity's employees providing services on a project, for the duration of the project.

Duration of the project - includes the time from the beginning of the work on the project until the contractor's/person's work on the project has been completed and accepted by the governmental entity.

Persons providing services on the project ("subcontractor" in §406.096) - includes all persons or entities performing all or part of the services the contractor has undertaken to perform on the project, regardless of whether that person contracted directly with the contractor and regardless of whether that person has employees. This includes, without limitation, independent contractors, subcontractors, leasing companies, motor carriers, owner-operators, employees of any such entity, or employees of any entity which furnishes persons to provide services on the project. "Services" include, without limitation, providing, hauling, or delivering equipment or materials, or providing labor, transportation, or other service related to a project. "Services" does not include activities unrelated to the project, such as food/beverage vendors, office supply deliveries, and delivery of portable toilets.

B. The contractor shall provide coverage, based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of Texas Labor Code, Section 401.011(44) for all employees of the contractor providing services on the project, for the duration of the project.

C. The Contractor must provide a certificate of coverage to the governmental entity prior to being awarded the contract.

D. If the coverage period shown on the contractor's current certificate of coverage ends during the duration of the project, the contractor must, prior to the end of the coverage period, file a new certificate of coverage with the governmental entity showing that coverage has been extended.

E. The contractor shall obtain from each person providing services on a project, and provide to the governmental entity:

(1) a certificate of coverage, prior to that person beginning work on the project, so the governmental entity will have on file certificates of coverage showing coverage for all persons providing services on the project; and

(2) no later than seven days after receipt by the contractor, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the project.

F. The contractor shall retain all required certificates of coverage for the duration of the project and for one year thereafter.

G. The contractor shall notify the governmental entity in writing by certified mail or personal delivery, within 10 days after the contractor knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the project.

H. The contractor shall post on each project site a notice, in the text, form and manner prescribed by the Division of Workers' Compensation, informing all persons providing services on the project that they are required to be covered, and stating how a person may verify coverage and report lack of coverage.

I. The contractor shall contractually require each person with whom it contracts to provide services on a project, to:

(1) provide coverage, based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of Texas Labor Code, Section 401.011(44) for all of its employees providing services on the project, for the duration of the project;

(2) provide to the contractor, prior to that person beginning work on the project, a certificate of coverage showing that coverage is being provided for all employees of the person providing services on the project, for the duration of the project;

(3) provide the contractor, prior to the end of the coverage period, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the project;

(4) obtain from each other person with whom it contracts, and provide to the contractor:

(a) a certificate of coverage, prior to the other person beginning work on the project; and

(b) a new certificate of coverage showing extension of coverage, prior to the end of the coverage period, if the coverage period shown on the current certificate of coverage ends during the duration of the project;

(5) retain all required certificates of coverage on file for the duration of the project and for one year thereafter;

(6) notify the governmental entity in writing by certified mail or personal delivery, within 10 days after the person knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the project; and

(7) contractually require each person with whom it contracts, to perform as required by paragraphs (1) - (7), with the certificates of coverage to be provided to the person for whom they are providing services.

J. By signing this contract, providing, or causing to be provided a certificate of coverage, the contractor is representing to the governmental entity that all employees of the contractor who will provide services on the project will be covered by workers' compensation coverage for the duration of the project, that the coverage will be based on proper reporting of classification codes and payroll amounts, and that all coverage agreements will be filed with the appropriate insurance carrier or, in the case of a self-insured, with the division. Providing false or misleading information may subject the contractor to administrative penalties, criminal penalties, civil penalties, or other civil actions.

K. The contractor's failure to comply with any of these provisions is a breach of contract by the contractor which entitles the governmental entity to declare the contract void if the contractor does not remedy the breach within ten days after receipt of notice of breach from the governmental entity.

EXHIBIT VI

SAWS' SECURITY PROCEDURES

If work will be conducted on SAWS property, on SAWS infrastructure, on a SAWS customer's property, or involve any SAWS networks, or any SAWS facility, the Contractor shall ensure a Prime Contractor Data Form (PCDF) and a Background Screening Letter are properly completed for all employees and sub-contractors performing work under this Contract. All paperwork must be received and on file with SAWS Security prior to work commencement. Background checks must, at a minimum, include Sex Offender Registry, Texas Statewide Criminal, U.S. Patriot Act/Global Terrorist Watchlist, Residency History, Social Security Alert and Federal Criminal Records check. The Contractor may use any background check provider that is accredited by the Professional Background Screening Association (PBSA). If any background check results in negative report(s), such background check results should be provided electronically to the SAWS Security Department Manager at steven.tijerina@saws.org for review and assessment for site access determination for the individual at issue. Such good faith review is at the sole and exclusive discretion of SAWS, and SAWS will notify the Contractor if the individual with background check negative report(s) is approved for site access. Any approved Sub-Contractors performing work on the contract must also be listed in the PCDF and the Background Screening Letter. Contractor shall be responsible for the accuracy of information on the PCDF and the Background Screening Letter, and for obtaining all required items (badges and/or parking tags) necessary to fulfilling the work under this Agreement. The PCDF and Background Screening Letter must be sent electronically to securitygroup@saws.org. Contractor shall advise the SAWS Project Manager/Inspector of any employee terminations or changes to personnel performing work under this Agreement and the Contractor shall immediately turn in all badges and/or parking tags of employees who are terminated or no longer performing work under this Contract. If Contractor becomes aware or reasonably should have become aware of any changes in the information contained in the PCDF or the Background Screening Letters, Contractor shall immediately notify the SAWS Project Manager/Inspector and provide electronically updated PCDF and Background Screening Letter to securitygroup@saws.org. Once the project is completed, the Contractor shall return all badges and parking tags to the Badge Office.

Each employee and agent of Contractor shall obtain a SAWS photo identification badge (a "Contractor's Badge") and parking tag prior to any work on SAWS property or asset, which shall be used only for purposes necessary to perform the work under this Contract. SAWS Badge Office hours are every Wednesday and Friday from 8:00am to 12:00pm, excluding National and SAWS holidays (hours are subject to change). SAWS Security staff can be contacted at (210) 233-3177

or (210) 233-2343. Once the Project is completed, the Contractor shall return all Contractor Badges and parking tags to the Security Office. A Contractor who does not return the Contractor Badges or parking tags will be considered not in compliance with these procedures.

SAWS facilities require a SAWS employee to physically escort the Contractor at all times. SAWS may, at its sole discretion, waive the escort requirements if the PCDF and a background screening letter is on file with the SAWS Security Department. Waiver of the escort requirement shall only be approved through a written correspondence to Contractor from the SAWS Security Department.

Sub-contractors must always be under escort of Contractor while performing work on any SAWS property or asset. Sub-contractors must display the Contractor's Badge at all times while working on any SAWS property or asset. Sub-contractors are required to complete a background screening and be listed on the PCDF regardless of receiving a Contractor's Badge. The Contractor is solely responsible for the actions of its employees, agents, sub-contractors, and consultants.

Contractor is responsible for being in compliance with SAWS Security requirements and for maintaining security of SAWS property, infrastructure, SAWS customer's property, networks, and facilities for the length of the Project. Security incidents must be reported to SAWS Security immediately at (210) 233-3338.

If the Contractor plans to leave the site unsecure or provide open access to the job site during the Project, they must provide a SAWS-approved security guard to monitor ingress and egress to the SAWS site.

If Contractor takes any action that diminishes the security of a SAWS site, Contractor will be responsible for providing additional security requirements at its expense. Some examples of additional requirements that SAWS may require include hiring of SAWS approved security guards, temporary fencing, mobile Closed Circuit Television Monitoring trailer(s), or extra lighting. Contractor shall follow and abide by security standards as set forth by the SAWS Security Department.

Advance coordination by Contractor with SAWS Security for these security requirements is necessary to ensure no delays with timely performance of work. Any other provision of this Contract notwithstanding, in the event Contractor fails to comply with SAWS Security requirements, SAWS may, with no penalty, claim of any nature (including but not limited to breach of contract) against SAWS by the Contractor:

- Issue a Work Stoppage Order until the security violation (s) are remedied.
- Ask any unidentified or improperly identified person or equipment to leave SAWS site immediately and not return until items or deficiencies are remedied to SAWS's satisfaction.

EXHIBIT VII – SBEDA COMPLIANCE PROVISIONS

1. **SBEDA Program.** For purposes of the following provisions, "Contractor" refers to the party subject to SBEDA Program requirements, whether acting as a contractor, consultant or vendor under the Agreement. Contractor acknowledges that the Agreement is subject to City's Small Business Economic Development Advocacy (SBEDA) Ordinance (Ordinance No. 2024-12-05-0977), as amended, the SBEDA Policy & Procedure Manual, and the City Manager's memorandum titled *Direction Regarding Ordinance Application to Certain Contracts*, issued on September 10, 2025, which are incorporated herein by reference. Terms used herein shall have the meanings ascribed in the Ordinance and Manual. **Contractor is responsible for reviewing the full SBEDA Ordinance**

and associated documents, available on the City's Economic Development Department's website or upon request.

2. General Compliance. Contractor shall comply fully with all applicable SBEDA requirements and procedures, including but not limited to:

- 2.1 Cooperating with the Economic Development Department (EDD) and Originating Department in the monitoring and reporting of subcontractor utilization;
- 2.2 Providing timely and truthful responses to inquiries or investigations related to SBEDA compliance;
- 2.3 Permitting EDD inspections of contract-related records and personnel upon reasonable notice;
- 2.4 Submitting proposed changes to its Subcontractor Utilization Plan (UP) in writing, utilizing form(s) provided, for prior approval by the Originating Department and EDD;
- 2.5 Notifying City and EDD immediately of any contract assignment, transfer, or change in ownership or business structure;
- 2.6 Retaining subcontractor payment records for a minimum of four years following contract completion or litigation resolution;
- 2.7 Accepting that subcontractor participation credit may be disallowed if Commercially Useful Function requirements are not met;
- 2.8 Maintaining active registration in the City's Centralized Vendor Registration system (CVR), with recommended registration for all subcontractors.

3. Affirmative Procurement Initiatives. Contractor shall comply with all applicable contract-specific Affirmative Procurement Initiatives (APIs), as outlined in the UP or Commitment Form Contractor submitted in response to City's solicitation. It is Contractor's responsibility to verify with EDD which API(s) apply if uncertain. API(s) may include:

- 3.1 **ESBE and/or SBE Prime Contract Program.** Contractor shall not subcontract more than 49% of the contract value to firms not certified under the applicable program.
- 3.2 **SBE Joint Venture Program.** Contractor shall maintain the specified percentage of contract value designated to the SBE Joint Venture Partner.
- 3.3 **Contracting Program(s).** Contractor shall subcontract a specified percentage of the contract value to SBEDA-eligible firm(s) under the applicable program.
- 3.4 **Mentor Program.** Contractor shall serve as a mentor to a small business in accordance with program requirements. Matching documents must be submitted within thirty (30) calendar days of project award.

4. Opportunity for Waiver. Contractor agrees that required compliance with contract-specific APIs and associated obligations shall apply throughout the contract term and shall extend to all contract modifications, unless expressly waived by EDD; waiver request forms are available at EDD's website or upon request: <http://www.sanantonio.gov/EDD/Forms.aspx> .

5. Commercial Nondiscrimination. Contractor represents and warrants that it shall not discriminate on the basis of race, color, religion, ancestry or national origin, sex, age, marital status, sexual orientation or, on the basis of disability or other unlawful forms of discrimination in the solicitation, selection, hiring or commercial treatment of subcontractors, vendors, suppliers, or commercial customers, nor shall the company retaliate against any person for reporting instances of such discrimination. The company shall provide equal opportunity for subcontractors, vendors, and suppliers to participate in all of its public sector and private sector subcontracting and supply

opportunities, provided that nothing contained in this clause shall prohibit or limit otherwise lawful efforts to remedy the effects of marketplace discrimination that have occurred or are occurring in the City's Relevant Marketplace. Contractor understands and agrees that a material violation of this clause shall be considered a material breach of the Agreement and may result in termination, disqualification of Contractor from participating in City contracts, or other sanctions. This clause is not enforceable by or for the benefit of, and creates no obligation to, any third party. Contractor shall incorporate this clause into each of its subcontractor/supplier agreements entered into pursuant to City contracts.

6. Prompt Payment. Contractor shall submit accurate subcontractor payment information with each invoice and shall pay all subcontractors in accordance with the Texas Prompt Payment Act (Chapter 2251, Texas Government Code) within ten (10) days of receipt of payment from the City. Noncompliance shall result in withholding of final retainage and ineligibility for future City contracts until resolved.

7 Violation. Contractor acknowledges and agrees that the following actions, while not exhaustive, constitute violations of the SBEDA Ordinance and shall be deemed material breaches of this Agreement: Fraudulently obtaining or aiding others in obtaining or retaining certification status for SBEDA benefits;

- 7.2 Willfully falsifying, concealing, or misrepresenting material facts or documents related to SBEDA compliance or another entity's SBEDA certification status;
- 7.3 Obstruction or interference with investigations of certification qualifications;
- 7.4 Fraudulently obtaining or aiding others in obtaining public funds under SBEDA.

Directional Drilling Operator....	\$ 25.19	0.00
Electrician.....	\$ 30.54	0.00
Excavator Operator, 50,000 pounds or less.....	\$ 22.93	0.00
Excavator Operator, Over 50,000 pounds.....	\$ 22.90	0.00
Flagger.....	\$ 15.52	0.00
Form Builder/Setter, Structures.....	\$ 20.63	0.00
Form Setter, Paving & Curb.....	\$ 19.18	0.00
Foundation Drill Operator, Truck Mounted.....	\$ 24.28	0.00
Front End Loader Operator, 3 CY or Less.....	\$ 20.33	0.00
Front End Loader Operator, Over 3 CY.....	\$ 20.20	0.00
Laborer, Common.....	\$ 17.52	0.00
Laborer, Utility.....	\$ 19.05	0.00
Loader/Backhoe Operator.....	\$ 20.32	0.00
Mechanic.....	\$ 26.15	0.00
Milling Machine Operator.....	\$ 21.73	0.00
Motor Grader Operator, Fine Grade.....	\$ 26.56	0.00
Motor Grader Operator, Rough.....	\$ 22.95	0.00
Off Road Hauler.....	\$ 17.52	0.00
Painter, Structures.....	\$ 23.76	0.00
Pavement Marking Machine Operator.....	\$ 22.00	0.00
Pipelayer.....	\$ 19.23	0.00
Reclaimer/Pulverizer Operator....	\$ 19.05	0.00
Reinforcing Steel Worker.....	\$ 22.46	0.00

Roller Operator, Asphalt.....	\$ 20.24	0.00
Roller Operator, Other.....	\$ 17.52	0.00
Scraper Operator.....	\$ 17.52	0.00
Servicer.....	\$ 23.75	0.00
Sign Erector.....	\$ 17.52	0.00
Spreader Box Operator.....	\$ 19.31	0.00
Traffic Signal/Light Pole Worker.....	\$ 21.99	0.00
Truck Driver Lowboy Float.....	\$ 25.96	0.00
Truck Driver, Single Axle.....	\$ 19.70	0.00
Truck Driver, Single or Tandem Axle Dump Truck.....	\$ 20.91	0.00
Truck Driver, Tandem Axle Tractor with Semi Trailer.....	\$ 21.71	0.00
Welder.....	\$ 23.38	0.00
Work Zone Barricade Servicer.....	\$ 17.75	0.00

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded. If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least \$13.30 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2025. The applicable Executive Order minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", ?SA?, or ?SC? denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c) (1).

State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

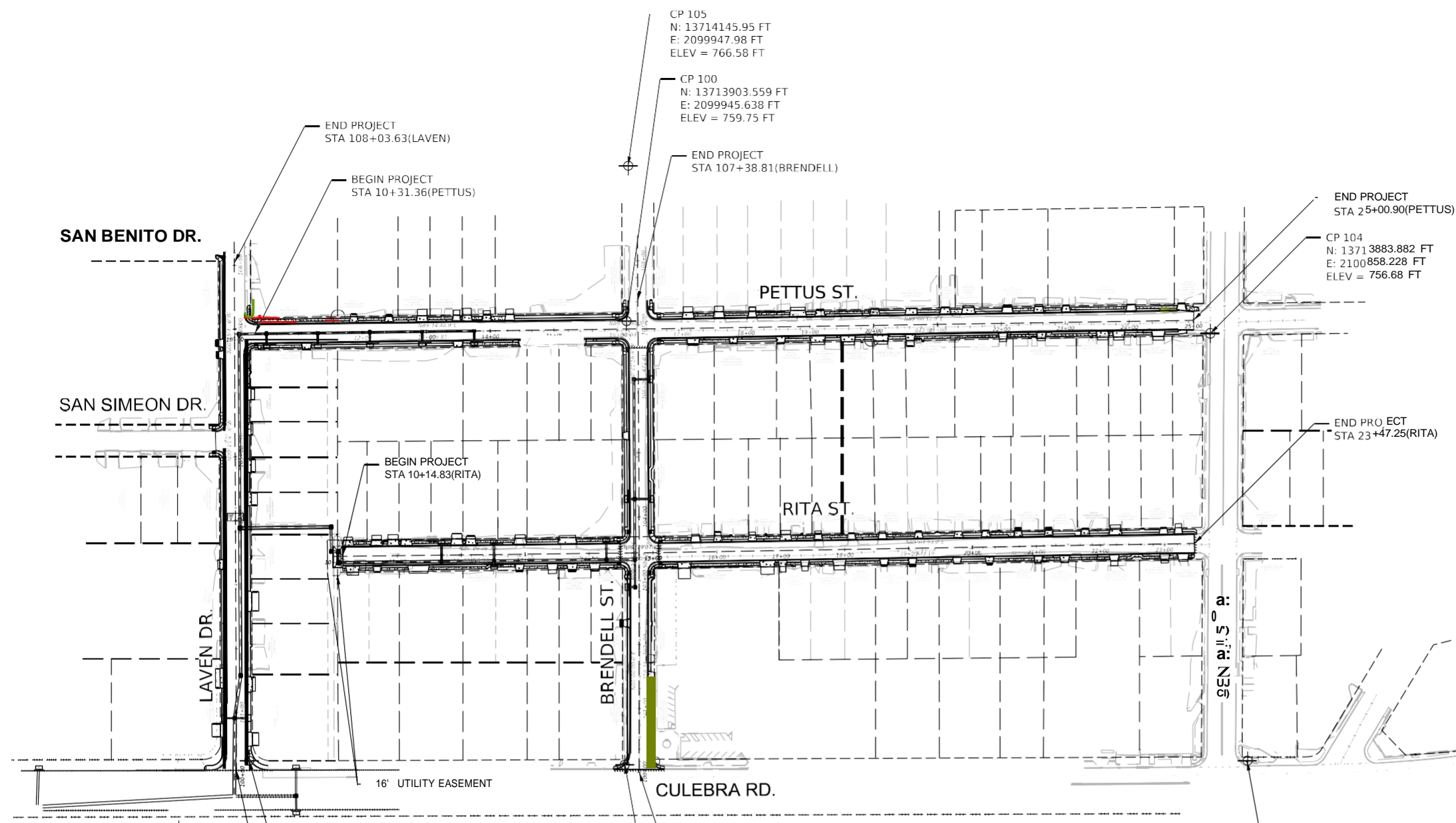
3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative

Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

=====
END OF GENERAL DECISION

5/22/2025 3:50:30 AM
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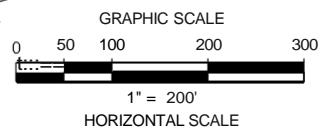
LEGEND

- EXISTING ROW
- PROPERTY LINE
- EASEMENT LINE
- CONTROL POINT

4

NOTES

1. REFER TO SURVEY CONTROL SHEETS FOR ADDITIONAL INFORMATION
2. SEE PLAN AND PROFILE SHEETS FOR PROPERTY INFORMATION



— CURB REMOVAL

— SIDEWALK REMOVAL

CP 103
 N: 13713215.132 FT
 E: 2100916.636 FT
 ELEV= 754.39 FT

CP 102
 N: 13713215.684 FT
 E: 2099355.3050 FT
 ELEV= 737.093 FT

BEGIN PROJECT
 STA 100+09.82(LAVEN)

CP 106
 N: 13712931.702 FT
 E: 2099287.706 FT
 ELEV= 733.466 FT

CP 101
 N: 13713209.481 FT
 E: 2099942.752 FT
 ELEV= 751.13 FT

BEGIN PROJECT
 STA 100+04.84(BRENDELL)

CP 105
 N: 13714145.95 FT
 E: 2099947.98 FT
 ELEV = 766.58 FT

CP 100
 N: 13713903.559 FT
 E: 2099945.638 FT
 ELEV = 759.75 FT

END PROJECT
 STA 107+38.81(BRENDELL)

END PROJECT
 STA 25+00.90(PETTUS)

CP 104
 N: 13713883.882 FT
 E: 2100858.228 FT
 ELEV = 756.68 FT

END PROJECT
 STA 23+47.25(RITA)

END PROJECT
 STA 108+03.63(LAVEN)

BEGIN PROJECT
 STA 10+31.36(PETTUS)

BEGIN PROJECT
 STA 10+14.83(RITA)

16' UTILITY EASEMENT

EXHIBIT

FOR REVIEW ONLY

By: MARTIN M. GONZALES P.E.#: 121996

DATE: 12/19/2025

AG3 GROUP

NOT FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

ill					
&					
&					
NO.	3	REVISION	BY	DATE	
		4800 FREDERICKSBURG RD SUITE 200SL SAN ANTONIO, TX 78229 P:210-208-9400 F:210-208-9401 TBPE #F-21809 TBPLS #10194622			
CITY OF SAN ANTONIO PUBLIC WORKS DEPARTMENT					
CULEBRA AREA STREETS PROJECT LAYOUT					
DRWN. BY:	55	D5GN. BY:	55	CHKD. BY:	MG
PROJECT NO. 23-03873		DATE: 05/28/2025		SHEET NO:	

INDEX OF SHEETS:

SHEET NO.	GENERAL
1	COVER SHEET
2	INDEX OF SHEETS
3	PROJECT LAYOUT
4	SURVEY CONTROL
5-10	TYPICAL SECTIONS
11-12	DRIVEWAY SUMMARY
13-14	GENERAL NOTES
15-17	SUMMARY OF QUANTITIES

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18	TCP GENERAL NOTES
19-20	TCP SEQUENCE OF WORK
21-25	TCP TYPICAL SECTIONS
26	SCHEDULE OF TRAFFIC CONTROL OVERALL PHASING
27-31	SCHEDULE OF TRAFFIC CONTROL TCP PHASES

SHEET NO.	TRAFFIC CONTROL STANDARDS
32-35	BARRICADE AND CONSTRUCTION STANDARDS
36-47	BC(1)21 - BC(12)21 **
48	TCP (1-2)-18 **
49	TCP (2-4)-18 **
50	WZ(BRK)-13
51	WZ(RCD)-13

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52-57	EXISTING UTILITY LAYOUT
58-59	PLAN & PROFILE SHEETS (LAVEN DR)
60-63	PLAN & PROFILE SHEETS (PETTUS DR)
64-65	PLAN & PROFILE SHEET (BRENDLELL)
66-69	PLAN & PROFILE SHEET (RITA DR)
70-114	STREET CROSS SECTIONS
115-118	INTERSECTION LAYOUTS

SHEET NO.	ROADWAY STANDARDS
119	CONCRETE DRIVEWAY STANDARDS *
120	MISCELLANEOUS CONSTRUCTION STANDARDS I *
121	MISCELLANEOUS CONSTRUCTION STANDARDS II *
122	WHEELCHAIR RAMP STANDARDS *
123	CHAIN LINK WIRE FENCE STANDARDS *

SHEET NO.	SGN & PVMT MRK PLANS
124	PLAN & PLAN SHEET (LAVEN DR)
125-126	PLAN & PLAN SHEETS (PETTUS DR)
127	PLAN & PLAN SHEET (BRENDLELL)
128-129	PLAN & PLAN SHEETS (RITA AVE)

SHEET NO.	SGN & PVMT MRK PLANS STANDARDS
130	12-FOOT PARABOLIC ASPHALT CONCRET ♦ SPEED HUMP

SHEET NO.	DRAINAGE PLANS
131	DRAINAGE AREA MAP EXISTING CONDITIONS
132	EXISTING DRAINAGE AREA PLAN CALCULATIONS
133	DRAINAGE AREA MAP PROPOSED CONDITIONS
134	PROPOSED DRAINAGE AREA PLAN CALCULATIONS
135	SYSTEM 1 DRAINAGE AREA LAYOUT
136	SYSTEM 1 STORM SEWER LAYOUT
137	SYSTEM 2 DRAINAGE AREA LAYOUT
138	SYSTEM 2 STORM SEWER LAYOUT
139-142	DRAINAGE HYDRAULIC SHEET
143-144	DRAINAGE PLAN & PROFILE SHEETS (LAVEN DR)
145	DRAINAGE PLAN & PROFILE SHEETS (PETTUS DR)
146	DRAINAGE PLAN & PROFILE SHEET (BRENDLELL)
147-148	DRAINAGE PLAN & PROFILE SHEET (RITA DR)
149-150	DRAINAGE LATERAL SHEETS

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151	STORM WATER MANHOLE LOCKING DETAIL
152-154	TYPE "C" INLET (TYPE 1&11) & INLET EXTENSION
155	S'X'S'X' JUNCTION BOX
156	6'X6'X6' JUNCTION BOX
157	PIPE BEDDING & MISCELLANEOUS DRAINAGE DETAILS
158	CONCRETE COLLAR DETAIL

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159	ENVIRONMENTAL LAYOUT
160	STORM WATER POLLUTION GENERAL NOTES
161	EPIC
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164	PLAN & PROFILE SW3P (LAVEN DR.)
165-166	PLAN & PROFILE SW3P (PETTUS ST.)
167	PLAN & PROFILE SW3P (BRENDLELL ST.)
168-169	PLAN & PROFILE SW3P (RITA AVE.)


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170	TEMPORARY EROSION, SEDIMENT & WATER POLLUTION CONTROL MEASURES STANDARDS 1
171	TEMPORARY EROSION, SEDIMENT & WATER POLLUTION CONTROL MEASURES STANDARDS 2

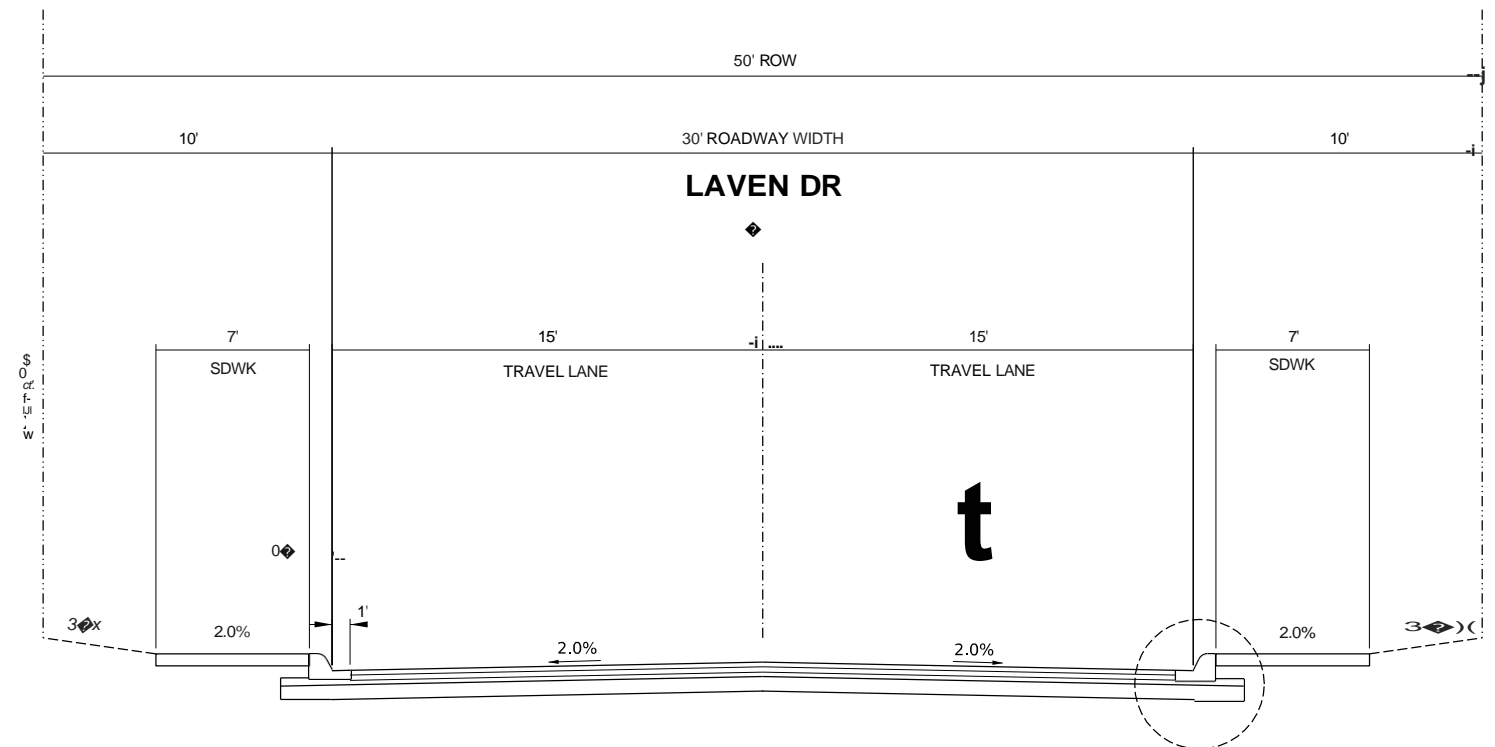
SHEET NO.	SAWS SANITARY SEWER AND WATER PLANS
172	SANITARY SEWER TITLE SHEET AND INDEX
173	GENERAL NOTES & QUANTITIES
174	PROJECT LAYOUT
175-183	SANITARY SEWER PLAN & PROFILE
184	WATER TITLE SHEET AND SHEET INDEX
185	GENERAL NOTES AND QUANTITIES
186	PROJECT LAYOUT
187-198	WATER PLAN & PROFILE
199-200	WATER DETAILS

SHEET NO.	CPS ENERGY GAS RELOCATION PLANS
201	CPS GAS RELOCATION TITLE SHEET
202	GENERAL NOTES, ESTIMATED QUANTITIES & LEGEND
203	KEY MAP
204-205	LINE DATA TABLE
206-208	LOCATION DATA TABLE
209-218	CPS ENERGY PLAN



* CITY OF SAN ANTONIO (COSA) STANDARD
 ** TXDOT STANDARD

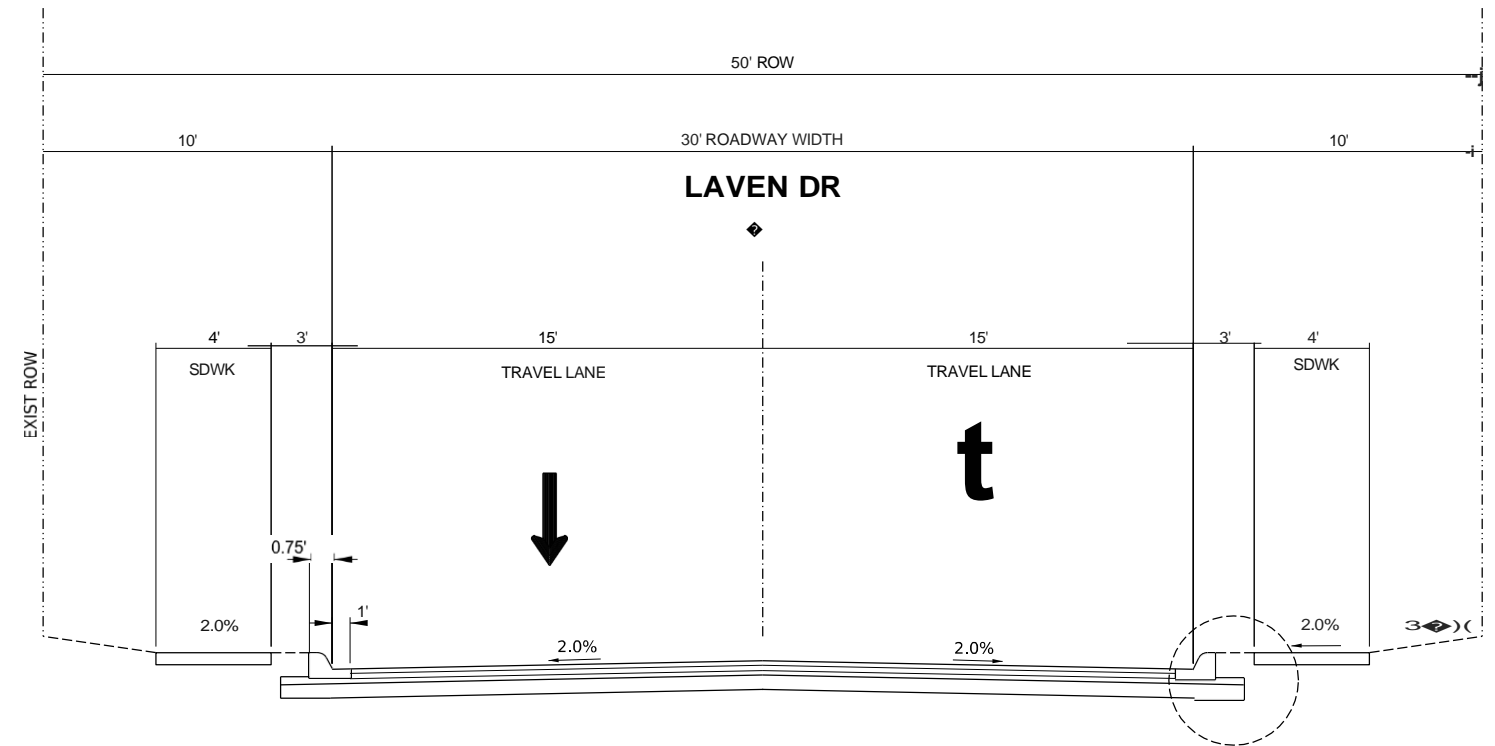
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NO.	REVISION	BY	DATE
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CITY OF SAN ANTONIO PUBLIC WORKS DEPARTMENT			
CULEBRA AREA STREETS INDEX OF SHEETS			
100% SUBMITTAL	PROJECT NO: 23-03873	DATE: 05/28/2025	
DRWN. BY: SS	DSGN. BY: 55	CHKD. BY: MG	SHEET NO: 2



PROPOSED LAVEN DR

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N.T.S.

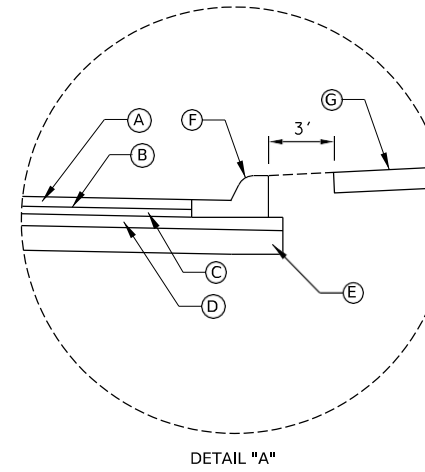
SEE DETAIL "A"



PROPOSED LAVEN DR

STA. 101+38.00 TO STA 108+03.63
N.T.S.

SEE DETAIL "A"



- 0 WARM MIX ASPHALT CONCRETE TYPED (2.0" COMP DEPTH)
- 0 TACKCOAT
- (C) WARM MIX ASPHALT CONCRETE TYPE B (5" COMP DEPTH) INSTALL 1 LIFT (3.5" TOP)
- (D) WARM MIX ASPHALT CONCRETE TYPE B (5" COMP DEPTH) INSTALL 1 LIFT (1.5" BOTTOM)
- (E) 6" MOISTURE CONDITIONED SUBGRADE
- (F) 7" CURB AND GUTTER
- (G) 4' CONC SIDEWALK

NOTES

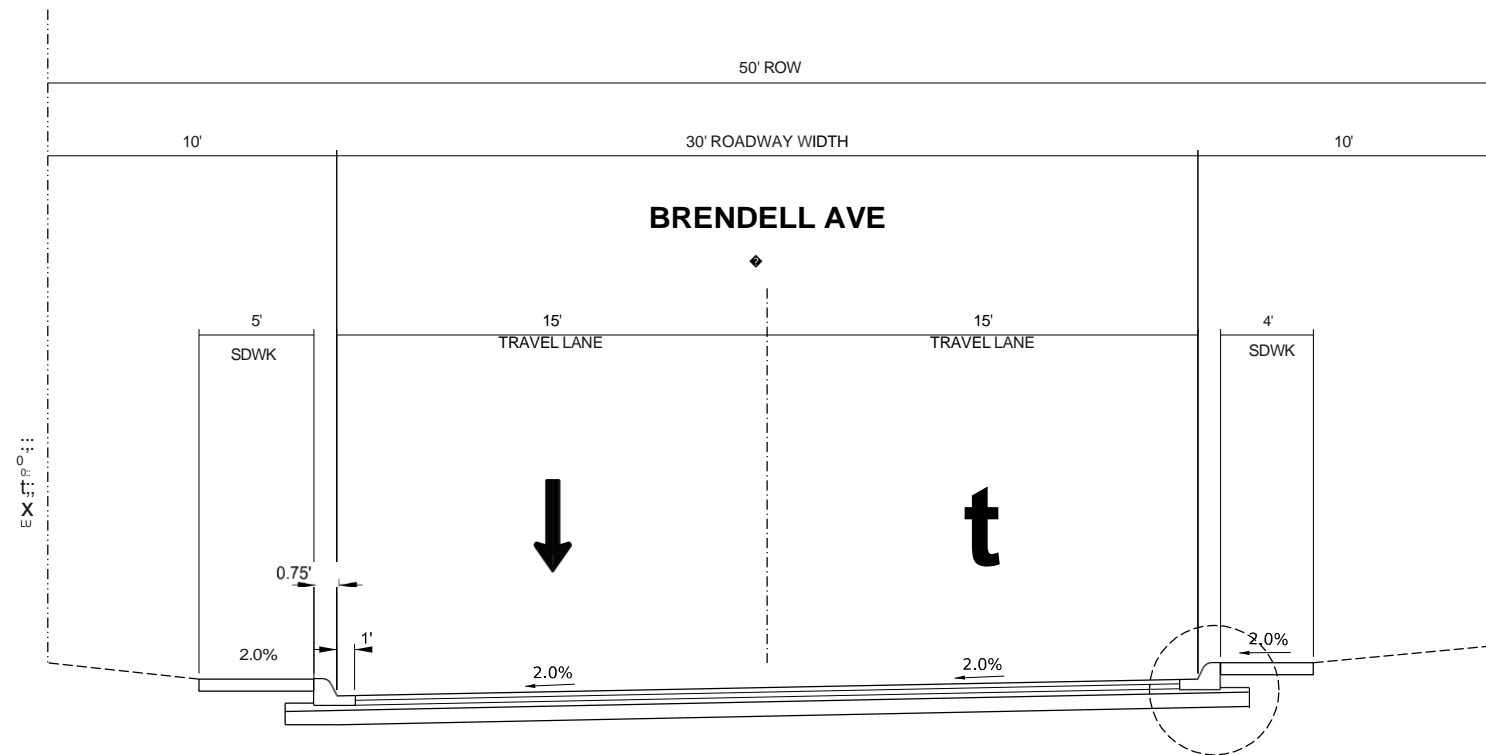
1. UP TO 30% RAP WILL BE ALLOWED FOR COURSES BELOW THE SURFACE OR BELOW THE WEARING COURSE. RAP WILL NOT BE ALLOWED IN THE FINAL SURFACE COURSE OR WEARING SURFACE. PG BINDER WILL FOLLOW COSA STANDARD SPECIFICATION ITEM 205.

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 Part Area Street
 01/18/2025
 47/23
 01/18/2025



12.19.25

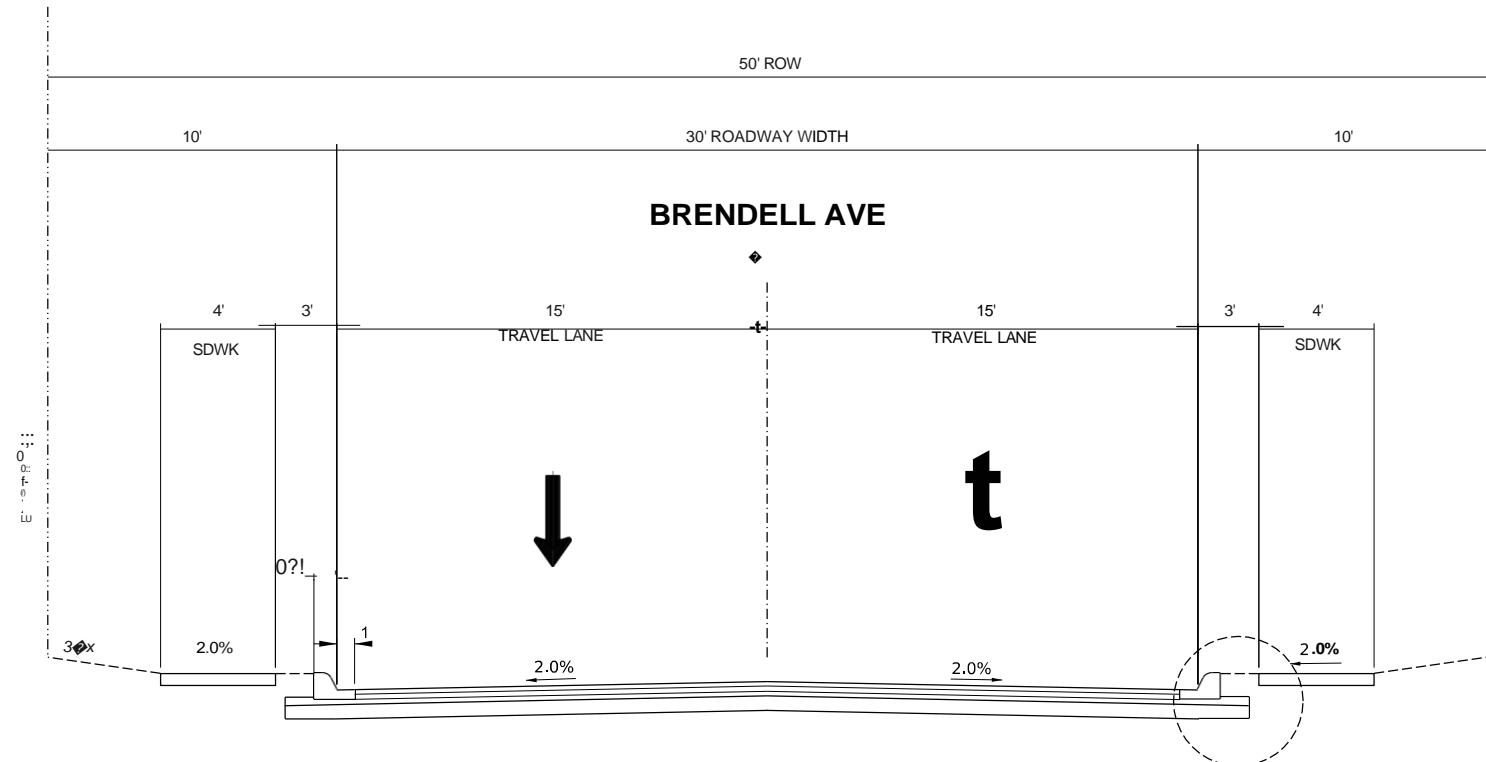
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		ADDENDUM 1	MG	12.19.25
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CITY OF SAN ANTONIO PUBLIC WORKS DEPARTMENT				
CULEBRA AREA STREETS PROPOSED TYPICAL SECTIONS				
100% SUBMITTAL	PROJECT NO: 23-03873	DATE: 05/28/2025		
DRWN. BY: SS	DSGN. BY: SS	CHKD. BY: MG	SHEET NO: 7	



PROPOSED BREDELL AVE

STA. 100+04.84 TO STA 103+04.76
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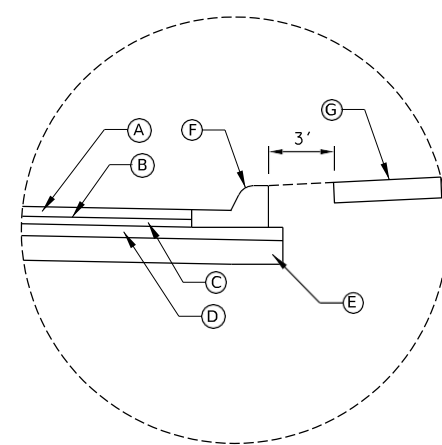
SEE DETAIL "A"



PROPOSED BREDELL AVE

STA. 103+04.76 TO STA 107+38.81
N.T.S.

SEE DETAIL "A"



DETAIL "A"

- 0 WARM MIX ASPHALT CONCRETE TYPED (2.0" COMP DEPTH)
- 0 TACKCOAT
- (C) WARM MIX ASPHALT CONCRETE TYPE B (5" COMP DEPTH) INSTALL 1 LIFT (3.5" TOP)
- (D) WARM MIX ASPHALT CONCRETE TYPE B (5" COMP DEPTH) INSTALL 1 LIFT (1.5" BOTTOM)
- (E) 6" MOISTURE CONDITIONED SUBGRADE
- (F) 7" CURB AND GUTTER
- (G) 4" CONC SIDEWALK

NOTES

1. UP TO 30% RAP WILL BE ALLOWED FOR COURSES BELOW THE SURFACE OR BELOW THE WEARING COURSE. RAP WILL NOT BE ALLOWED IN THE FINAL SURFACE COURSE OR WEARING SURFACE. PG BINDER WILL FOLLOW COSA STANDARD SPECIFICATION ITEM 205.

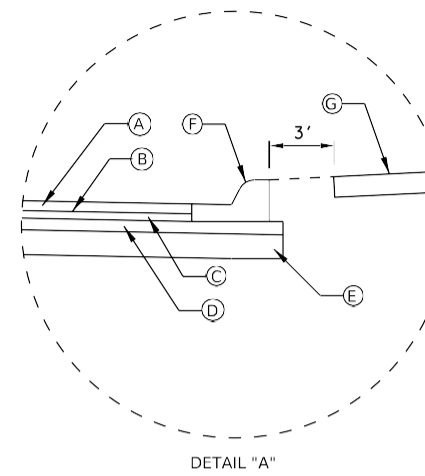
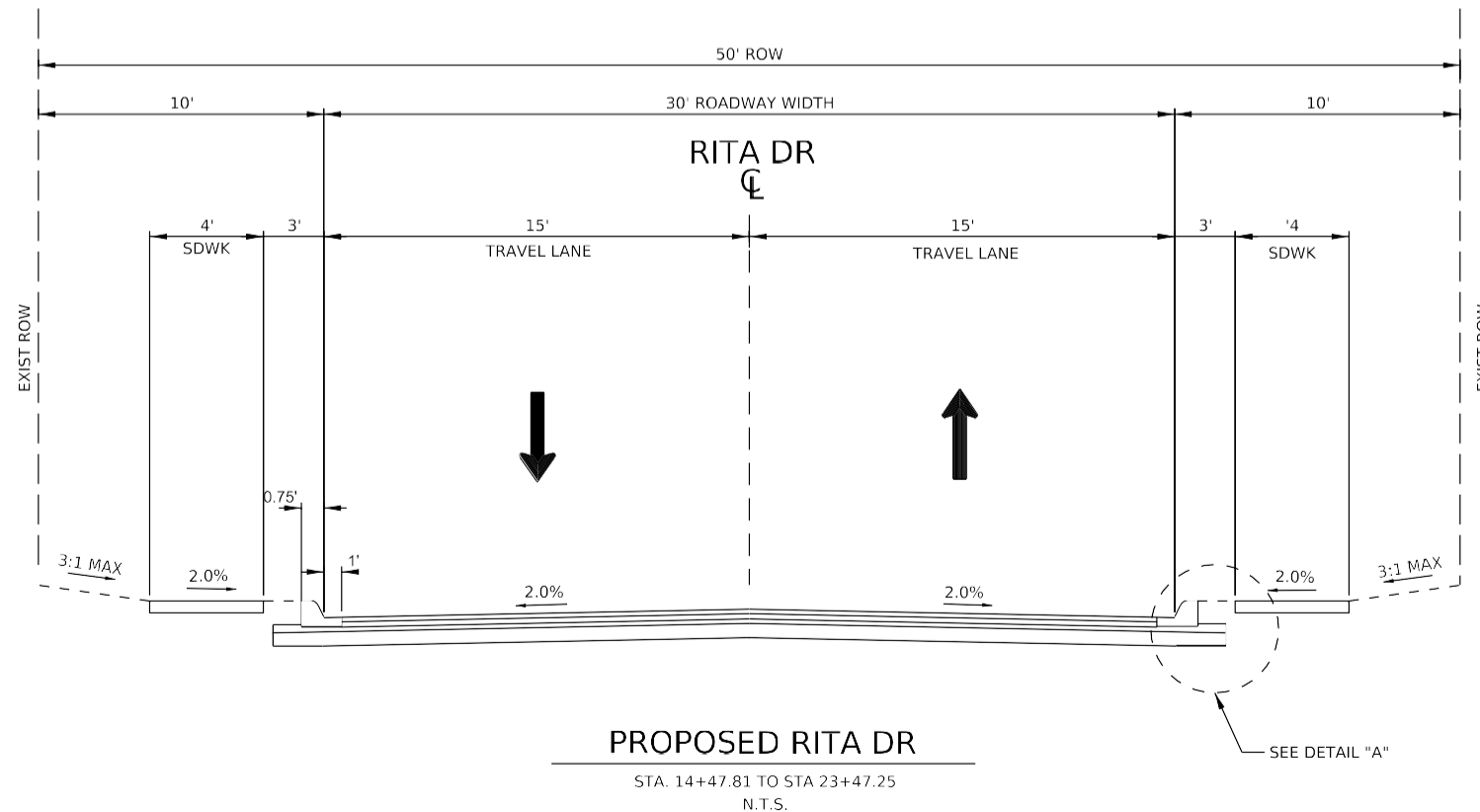
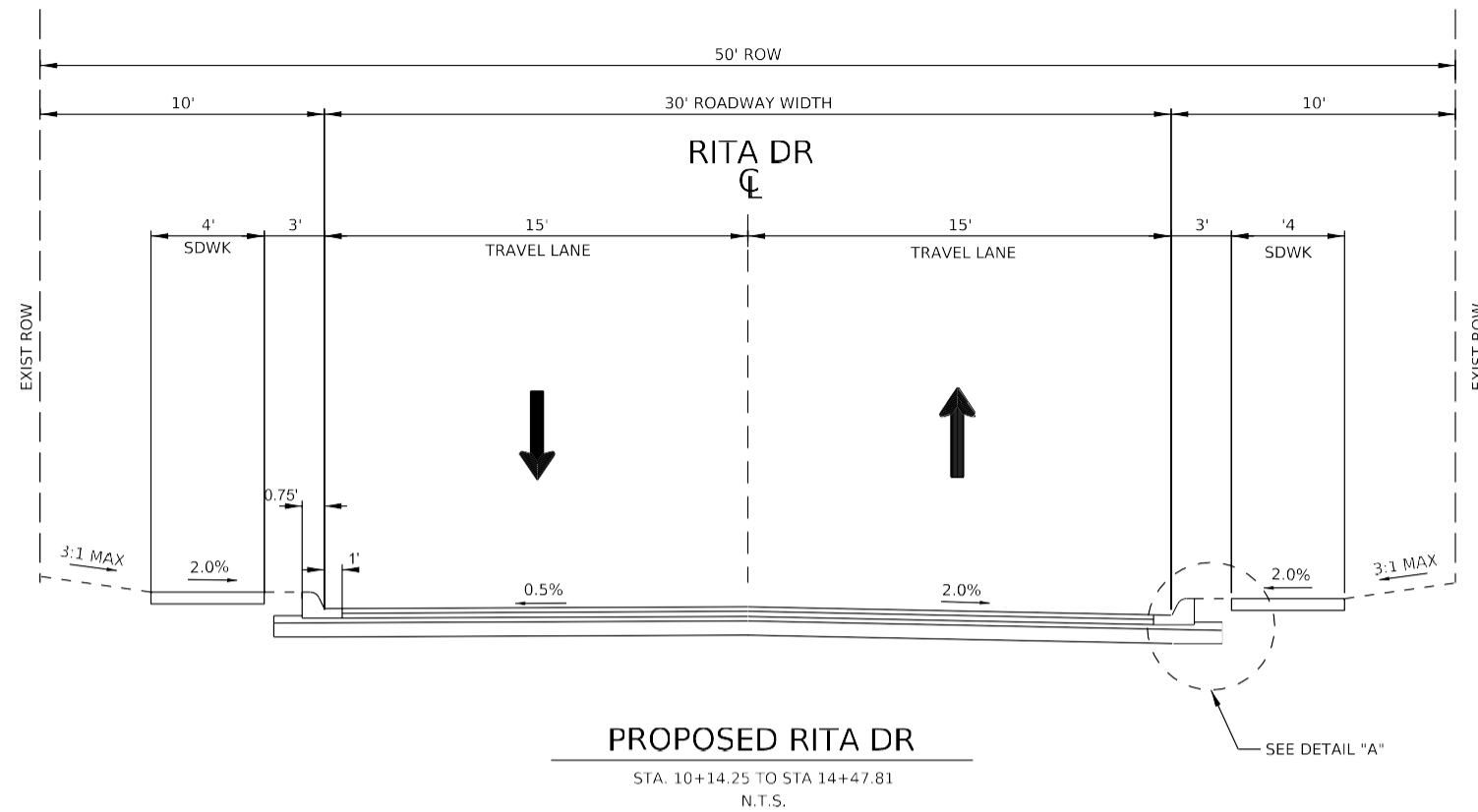
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 Part Area Street
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 107+38.81
 103+04.76
 100+04.84
 BREDELL AVE
 02
 12.19.25
 107+38.81
 103+04.76
 100+04.84
 BREDELL AVE



12.19.25

NO.	3	REVISION	MG	12.19.25
ADDENDUM 1		MG	12.19.25	
4800 FREDERICKSBURG RD SUITE 2005L SAN ANTONIO, TX 78229 P:210-208-9400 F:210-208-9401 TBPE #F-21809 TBPLS #10194622				
CITY OF SAN ANTONIO PUBLIC WORKS DEPARTMENT				
CULEBRA AREA STREETS PROPOSED TYPICAL SECTIONS				
100% SUBMITTAL	PROJECT NO: 23-03873	DATE: 05/28/2025		
DRWN. BY: SS	DSGN. BY: SS	CHKD. BY: MG	SHEET NO: 8	

12/19/2025 3:39:27 PM R:\ESC 23004 Culebra Part Area Street (CoSA)\07_Sheets\01_General\Front End Sheets\COSA_Culebra_Typical_Sections_03.dgn




- (A) WARM MIX ASPHALT CONCRETE TYPE D (2.0" COMP DEPTH)
- (B) TACK COAT
- (C) WARM MIX ASPHALT CONCRETE TYPE B (5' COMP DEPTH) INSTALL 1 LIFT (3.5" TOP)
- (D) WARM MIX ASPHALT CONCRETE TYPE B (5" COMP DEPTH) INSTALL 1 LIFT (1.5" BOTTOM)
- (E) 6" MOISTURE CONDITIONED SUBGRADE
- (F) 7" CURB AND GUTTER
- (G) 4' CONC SIDEWALK

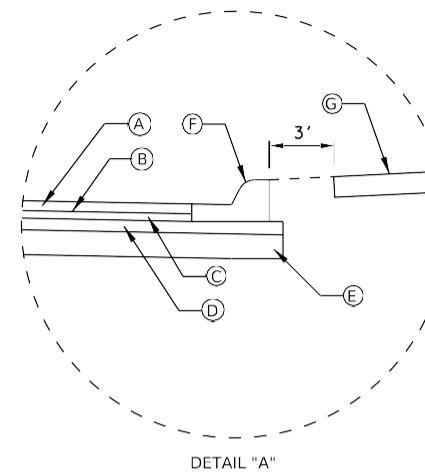
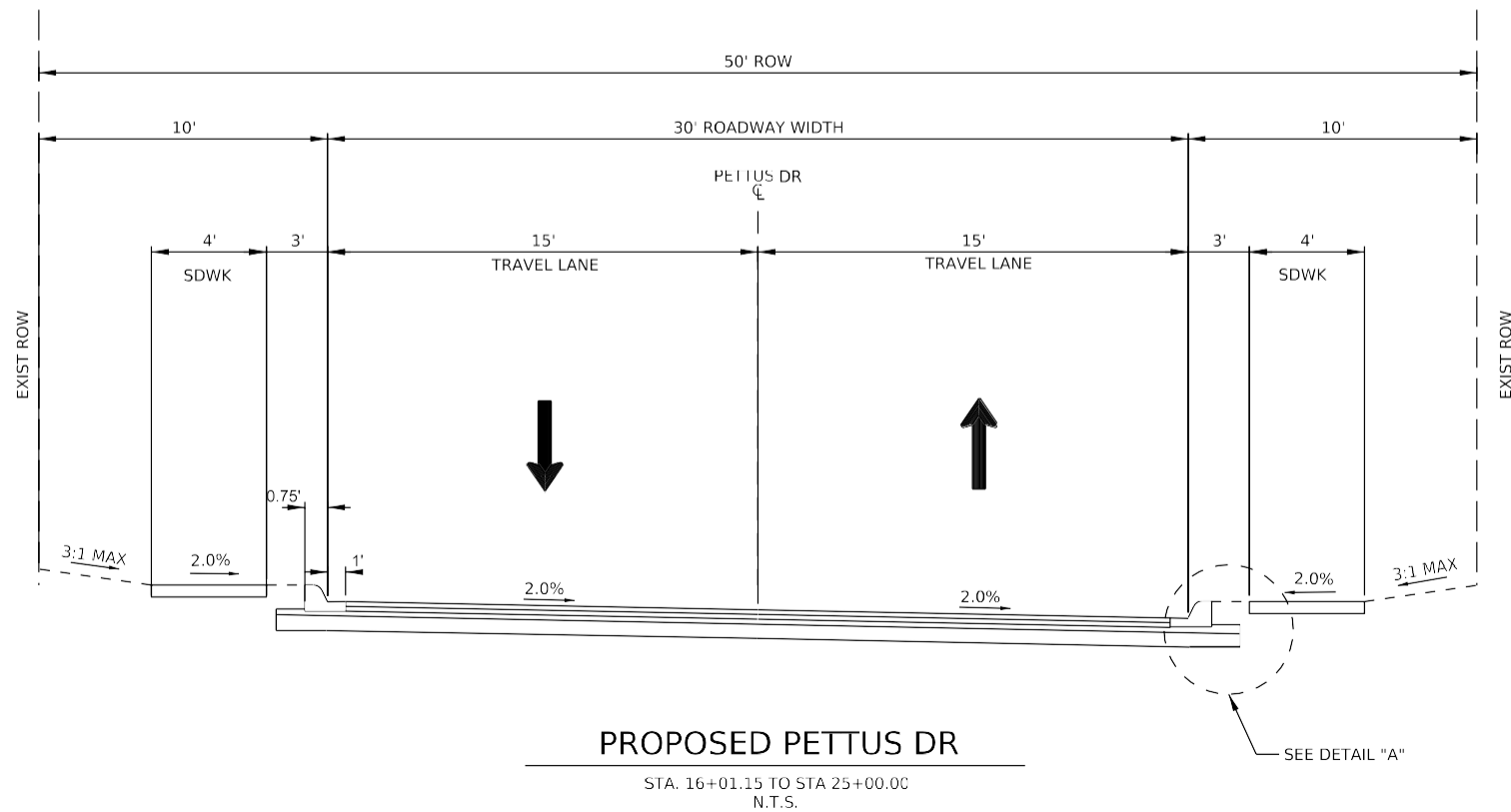
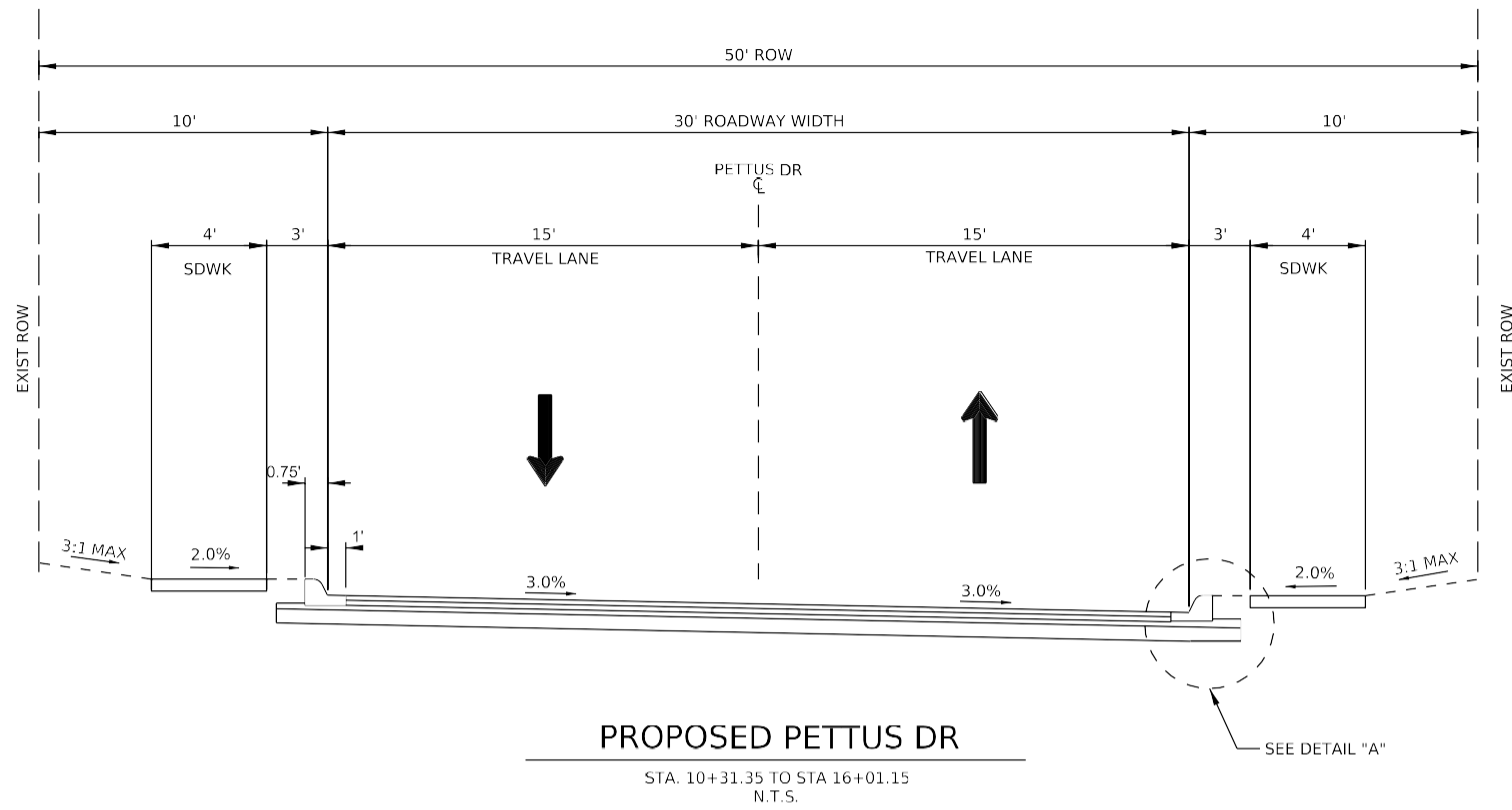
NOTES

1. UP TO 30% RAP WILL BE ALLOWED FOR COURSES BELOW THE SURFACE OR BELOW THE WEARING COURSE. RAP WILL NOT BE ALLOWED IN THE FINAL SURFACE COURSE OR WEARING SURFACE. PG BINDER WILL FOLLOW COSA STANDARD SPECIFICATION ITEM 205.



Martin V. Conzales
12.19.25

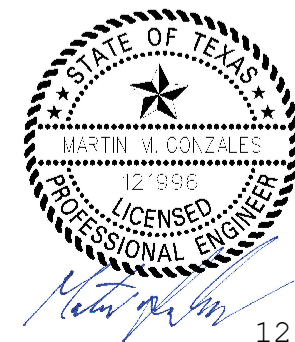
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1	ADDENDUM 1	MG	12.19.25
NO.	REVISION	BY	DATE
 4800 FREDERICKSBURG RD SUITE 200SL SAN ANTONIO, TX 78229 P:210-208-9400 F:210-208-9401 TBPE #F-21809 TBPLS #10194622			
CITY OF SAN ANTONIO PUBLIC WORKS DEPARTMENT			
CULEBRA AREA STREETS PROPOSED TYPICAL SECTIONS			
100% SUBMITTAL	PROJECT NO: 23-03873	DATE: 05/28/2025	
DRWN. BY: SS	DSGN. BY: SS	CHKD. BY: MG	SHEET NO: 9



- (A) WARM MIX ASPHALT CONCRETE TYPE D (2.0" COMP DEPTH)
- (B) TACK COAT
- (C) WARM MIX ASPHALT CONCRETE TYPE B (5' COMP DEPTH);
INSTALL 1 LIFT (3.5" TOP)
- (D) WARM MIX ASPHALT CONCRETE TYPE B (5" COMP DEPTH);
INSTALL 1 LIFT (1.5" BOTTOM)
- (E) 6" MOISTURE CONDITIONED SUBGRADE
- (F) 7" CURB AND GUTTER
- (G) 4' CONC SIDEWALK

NOTES

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12.19.25

3			
2			
1	ADDENDUM 1	MG	12.19.25
NO.	REVISION	BY	DATE
AG3 AG3 Group, LLC <small>ENGINEERING • SURVEY • CONSTRUCTION</small>		<small>4800 FREDERICKSBURG RD SUITE 200SL SAN ANTONIO, TX 78229 P:210-208-9400 F:210-208-9401 TBPE #F-21809 TBPLS #10194622</small>	
CITY OF SAN ANTONIO PUBLIC WORKS DEPARTMENT			
CULEBRA AREA STREETS PROPOSED TYPICAL SECTIONS			
100% SUBMITTAL	PROJECT NO: 23-03873	DATE: 05/28/2025	
DRWN. BY: SS	DSGN. BY: SS	CHKD. BY: MG	SHEET NO: 10

DRIVEWAY SUMMARY:

BRENDELL ST. :

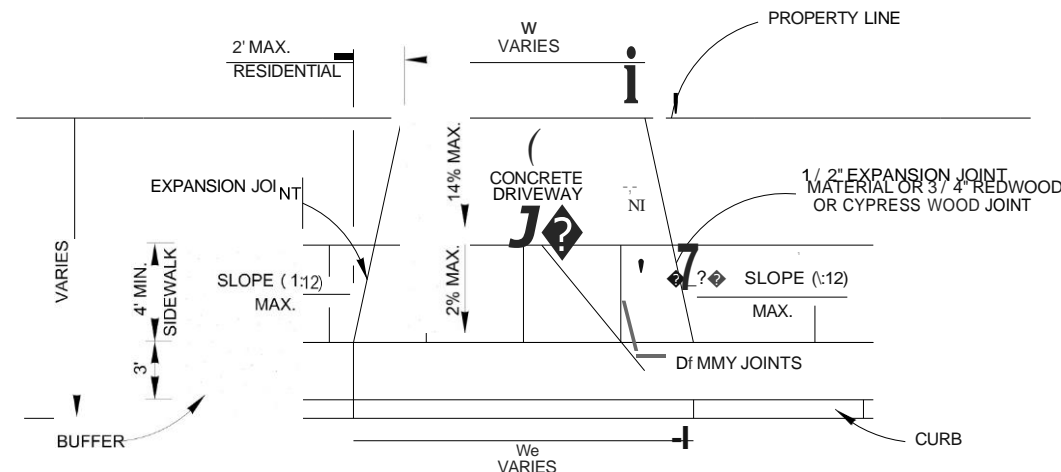
DRIVEWAY SUMMARY												
PLAN SHEET NO.	DRIVEWAY NUMBER	BASLINE NAME	BASLINE STATION	SIDE	DRIVEWAY TYPE	ITEM 530 6004 DRIVEWAY (CONC) (SY)	SIDEWALK WIDTH S (FT)	DRIVWAY WIDTH W (FT)	DRIVEWAY APRON LENGTH L (FT)	DRIVEWAY SLOPE (%)	DRIVEWAY PENETRATION P (FT)	EXISTING DRIVEWAY MATERIAL TYPE
62	1	BRENDELL ST.	101+41.17	RIGHT	Typical Commercial	39	5	30	5.42	14.00	0.00	Commercial Concrete
62	2	BRENDELL ST.	102+33.39	LEFT	Typical Residential	16	5	10	5.42	14.00	4.77	Asphalt
63	3	BRENDELL ST.	105+26.58	LEFT	Typical Residential	13	5	10	5.23	14.00	0.00	Asphalt

LAVEN ST.

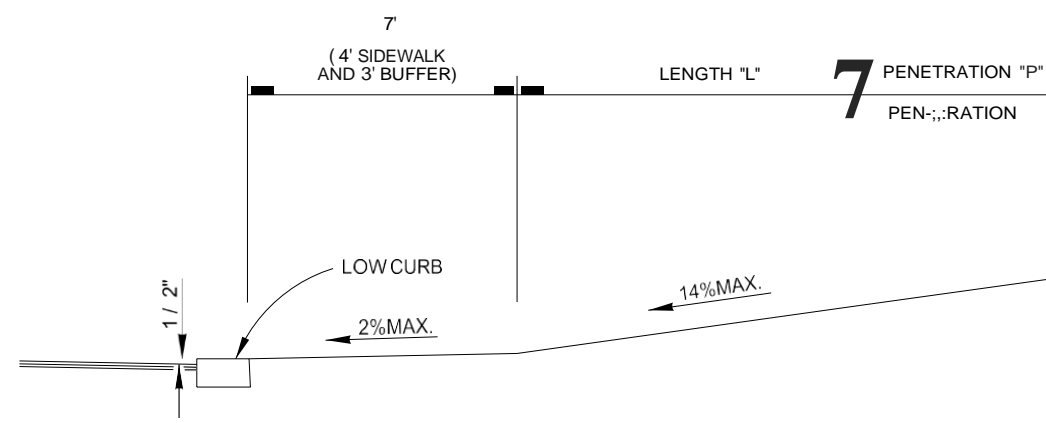
DRIVEWAY SUMMARY												
PLAN SHEET NO.	DRIVEWAY NUMBER	BASLINE NAME	BASLINE STATION	SIDE	DRIVEWAY TYPE	ITEM 530 6004 DRIVEWAY (CONC) (SY)	SIDEWALK WIDTH S (FT)	DRIVWAY WIDTH W (FT)	DRIVEWAY APRON LENGTH L (FT)	DRIVEWAY SLOPE (%)	DRIVEWAY PENETRATION P (FT)	EXISTING DRIVEWAY MATERIAL TYPE
56	4	LAVEN DR.	100+58.48	RIGHT	Typical Commercial	23	5	20	5.42	14.00	9.87	Commercial Concrete
56	5	LAVEN DR.	100+72.37	LEFT	Typical Commercial	24	5	20	5.42	14.00	13.09	Commercial Concrete
56	6	LAVEN DR.	101+44.28	RIGHT	Typical Commercial	26	5	22	5.42	14.00	3.14	Commercial Concrete
56	7	LAVEN DR.	101+54.98	LEFT	Typical Commercial	34	5	30	5.42	14.00	7.16	Commercial Concrete
56	8	LAVEN DR.	102+74.16	RIGHT	Typical Commercial	34	5	30	5.42	14.00	10.96	Commercial Concrete
56	9	LAVEN DR.	103+31.73	LEFT	Typical Residential	17	5	14	5.42	12.00	2.74	Flex Base
57	10	LAVEN DR.	104+34.40	RIGHT	Typical Residential	24	5	20	5.42	13.22	9.35	Concrete
57	11	LAVEN DR.	104+86.49	RIGHT	Typical Residential	24	5	20	5.42	14.00	6.49	Concrete
57	12	LAVEN DR.	105+43.88	RIGHT	Typical Residential	21	5	18	5.42	12.35	2.93	Concrete
57	13	LAVEN DR.	105+98.21	RIGHT	Typical Residential	20	5	17	5.42	14.00	5.86	Concrete
57	14	LAVEN DR.	106+59.85	LEFT	Typical Residential	13	5	10	4.65	12.00	3.93	Concrete
57	15	LAVEN DR.	106+78.17	LEFT	Typical Residential	13	5	12	5.42	12.00	5.08	Concrete

PETTUS ST.

DRIVEWAY SUMMARY												
PLAN SHEET NO.	DRIVEWAY NUMBER	BASLINE NAME	BASLINE STATION	SIDE	DRIVEWAY TYPE	ITEM 530 6004 DRIVEWAY (CONC) (SY)	SIDEWALK WIDTH S (FT)	DRIVWAY WIDTH W (FT)	DRIVEWAY APRON LENGTH L (FT)	DRIVEWAY SLOPE (%)	DRIVEWAY PENETRATION P (FT)	EXISTING DRIVEWAY MATERIAL TYPE
58	16	PETTUS ST.	11+12.69	RIGHT	Typical Residential	15	5	12	5.42	14	1.16	Concrete
58	17	PETTUS ST.	11+86.55	LEFT	Typical Residential	13	5	10	5.42	14	3.75	Flex Base
58	18	PETTUS ST.	12+41.59	LEFT	Typical Residential	13	5	15	5.42	14	1.9	Flex Base
58	19	PETTUS ST.	12+93.58	LEFT	Typical Residential	18	5	12	5.42	14	10.02	Flex Base
58	20	PETTUS ST.	13+47.42	LEFT	Typical Residential	13	5	10	5.42	14	7.93	Concrete
58	21	PETTUS ST.	13+49.77	RIGHT	Typical Residential	15	5	13	5.42	14	0	Concrete
58	22	PETTUS ST.	13+63.84	LEFT	Typical Residential	16	5	11	5.42	14	10.49	Concrete
58	23	PETTUS ST.	13+94.80	LEFT	Typical Residential	14	5	12	5.42	14	6.5	Flex Base
59	24	PETTUS ST.	14+30.53	LEFT	Typical Residential	15	5	10	5.42	14	8.45	Flex Base
59	25	PETTUS ST.	14+51.06	RIGHT	Typical Residential	13	5	10	5.42	14	0	Flex Base
59	26	PETTUS ST.	14+99.80	RIGHT	Typical Residential	13	5	10	5.42	14	0	Flex Base
59	27	PETTUS ST.	15+43.79	RIGHT	Typical Residential	13	5	15	5.42	14	0	Asphalt
59	28	PETTUS ST.	17+09.64	LEFT	Typical Residential	18	5	17	5.42	14	8.67	Concrete
59	29	PETTUS ST.	17+17.57	RIGHT	Typical Residential	20	5	14	5.42	14	0.75	Concrete
59	30	PETTUS ST.	17+58.00	LEFT	Typical Residential	18	5	10	5.42	14	8.65	Asphalt
59	31	PETTUS ST.	17_80.72	RIGHT	Typical Residential	13	5	10	5.42	14	0.35	Concrete
60	32	PETTUS ST.	18+10.17	LEFT	Typical Residential	13	5	11	5.42	12.64	6.57	Asphalt
60	33	PETTUS ST.	18+54.78	RIGHT	Typical Residential	14	5	23	5.42	14	1.86	Concrete
60	34	PETTUS ST.	18+81.42	LEFT	Typical Residential	27	5	21	5.42	14	4.91	Concrete
60	35	PETTUS ST.	19+12.46	RIGHT	Typical Residential	25	5	12	5.42	14	4.03	Flex Base
60	36	PETTUS ST.	19+16.12	LEFT	Typical Residential	15	5	20	5.42	14	1.62	Concrete
60	37	PETTUS ST.	19+59.64	RIGHT	Typical Residential	24	5	12	5.42	14	5.33	Flex Base
60	38	PETTUS ST.	20+01.79	LEFT	Typical Residential	15	5	21	5.42	14	1	Flex Base
60	39	PETTUS ST.	20+11.21	RIGHT	Typical Residential	25	5	12	5.42	14	5.13	Asphalt
60	40	PETTUS ST.	20+59.10	LEFT	Typical Residential	19	5	16	5.42	14	0.74	Flex Base
60	41	PETTUS ST.	20+58.09	RIGHT	Typical Residential	15	5	13	5.42	14	8.7	Flex Base
60	41A	PETTUS ST.	21+13.07	LEFT	Typical Residential	16	5	13	5.42	14	1.41	Flex Base
60	42	PETTUS ST.	21+48.22	LEFT	Typical Residential	20	5	17	5.42	14	2.56	Flex Base
61	43	PETTUS ST.	22+02.32	RIGHT	Typical Residential	14	5	11	5.42	14	4.06	Asphalt
61	44	PETTUS ST.	22+09.45	LEFT	Typical Residential	17	5	14	5.42	14	2.53	Flex Base
61	45	PETTUS ST.	22+62.45	RIGHT	Typical Residential	15	5	12	5.42	14	3.70	Flex Base
61	46	PETTUS ST.	22+58.53	LEFT	Typical Residential	15	5	12	5.42	14	2.65	Flex Base
61	47	PETTUS ST.	23+59.04	RIGHT	Typical Residential	20	5	10	5.42	14	4	Concrete
61	48	PETTUS ST.	23+00.96	LEFT	Typical Residential	13	5	17	5.42	14	1.44	Concrete
61	49	PETTUS ST.	23+84.09	RIGHT	Typical Residential	19	5	16	5.42	14	4.73	Flex Base
61	50	PETTUS ST.	24+02.99	LEFT	Typical Residential	16	5	13	5.42	14	1.14	Flex Base
61	51	PETTUS ST.	24+45.54	RIGHT	Typical Residential	20	5	17	5.42	14	5.91	Concrete
61	52	PETTUS ST.	24+82.49	LEFT	Typical Residential	15	5	11	5.42	12.84	1.73	Concrete



TYPICAL DRIVEWAY PLAN VIEW
WITH SIDEWALK ABUTTING CURB
N.T.S.



TYPICAL DRIVEWAY SECTION
WITH SIDEWALK ABUTTING CURB
N.T.S.



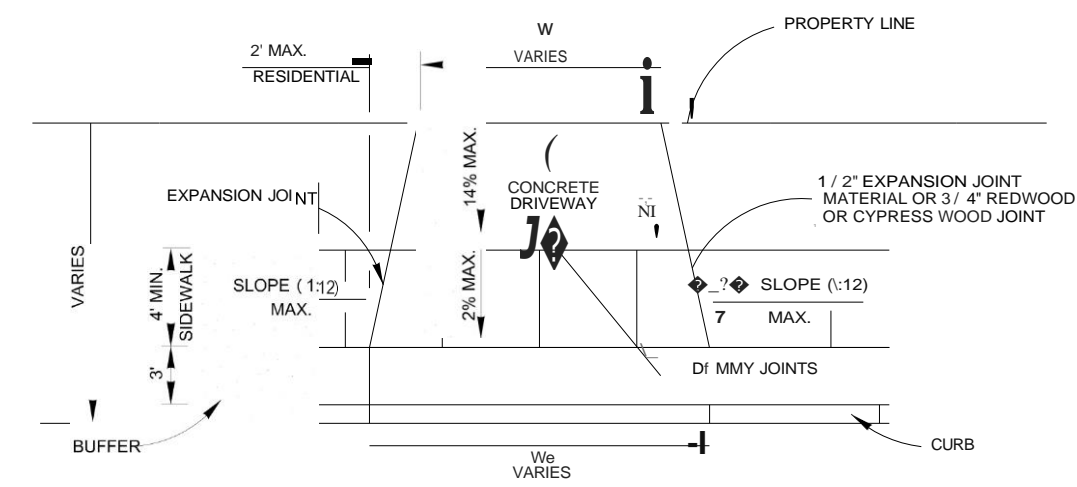
12.19.25

NO.	3	REVISION	BY	DATE
		ADDENDUM 1	MG	12.19.25
<p>AG3 Group, LLC ENGINEERING SURVEY CONSTRUCTION</p> <p>4800 FREDERICKSBURG RD SUITE 200SL SAN ANTONIO, TX 78229 P.210-208-9400 F.210-208-9401 TBPE #F-21809 TBPLS #10194622</p> <p>CITY OF SAN ANTONIO PUBLIC WORKS DEPARTMENT</p> <p>CULEBRA AREA STREETS</p> <p>DRIVEWAY SUMMARY</p>				
100% SUBMITTAL	PROJECT NOc	23-03873	DATEc	05/28/2025
DRWN. BYc	55	DSGN. BY,	55	CHKD. BY, MG
				SHEET NO, 11

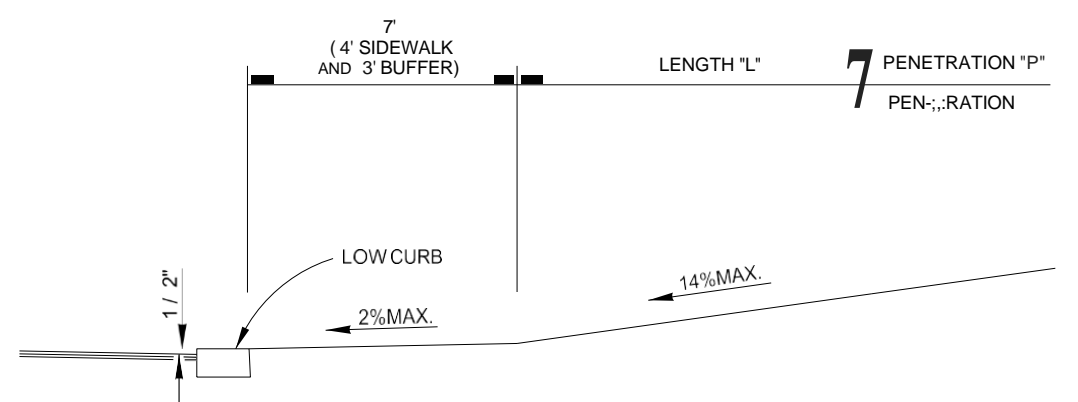
DRIVEWAY SUMMARY:

RITA AVE:

DRIVEWAY SUMMARY												
PLAN SHEET NO.	DRIVEWAY NUMBER	BASELINE NAME	BASELINE STATION	SIDE	DRIVEWAY TYPE	ITEM 530 6004 DRIVEWAY (CONC) (SY)	SIDEWALK WIDTHS (FT)	DRIVEWAY WIDTH W (FT)	DRIVEWAY APRON LENGTH L (FT)	DRIVEWAY SLOPE (%)	DRIVEWAY PENETRATION P (FT)	EXISTING DRIVEWAY MATERIAL TYPE
64	52 A	RITA ST.	10+23.14	LEFT	Typical Residential	17	5	14	5.42	14	4.90	Concrete
64	53	RITA ST.	10+30.14	RIGHT	Typical Residential	21	5	18	5.42	12	4.79	Concrete
64	54	RITA ST.	10+67.57	LEFT	Typical Residential	18	5	15	5.42	14	7.04	Concrete
64	55	RITA ST.	10+68.42	RIGHT	Typical Residential	13	5	10	5.42	14	0	Flex base
64	56	RITA ST.	10+93.46	LEFT	Typical Residential	19	5	16	5.42	12	7.94	Concrete
64	57	RITA ST.	11+14.10	LEFT	Typical Residential	18	5	15	5.42	12	0.50	Concrete
64	58	RITA ST.	11+33.10	RIGHT	Typical Residential	34	5	30	5.42	12	2.76	Concrete
64	59	RITA ST.	11+93.28	LEFT	Typical Residential	19	5	16	5.42	14	8.26	Concrete
64	60	RITA ST.	12+14.93	LEFT	Typical Residential	17	5	14	5.42	14	4.63	Concrete
64	61	RITA ST.	12+91.10	RIGHT	Typical Residential	14	5	11	5.42	12	1.85	Flex base
64	62	RITA ST.	12+92.38	LEFT	Typical Residential	19	5	16	5.42	2	5.25	Asphalt
64	63	RITA ST.	13+42.83	RIGHT	Typical Residential	16	5	26	5.42	14	5.85	Asphalt
64	64	RITA ST.	13+66.17	LEFT	Typical Residential	30	5	15	5.42	14	3.32	Asphalt
64	64 A	RITA ST.	13+73.51	RIGHT	Typical Residential	16	5	15	5.42	12	2.74	Asphalt
65	65	RITA ST.	14+08.97	RIGHT	Typical Residential	16	5	13	5.42	12	2.32	Asphalt
65	66	RITA ST.	15+66.57	LEFT	Typical Commercial	15	5	19	5.42	12	2.58	Asphalt
65	67	RITA ST.	15+49.06	RIGHT	Typical Residential	22	5	12	5.42	14	16.58	Flex base
65	68	RITA ST.	16+01.60	LEFT	Typical Residential	13	5	10	5.42	14	5.70	Asphalt
65	69	RITA ST.	16+55.49	LEFT	Typical Residential	13	5	10	5.42	14	4.40	Flex base
65	70	RITA ST.	16+79.17	RIGHT	Typical Commercial	25	5	21	5.42	14	11.89	Asphalt
65	71	RITA ST.	17+07.86	LEFT	Typical Residential	18	5	10	5.42	14	6.17	Asphalt
65	72	RITA ST.	17+02.93	RIGHT	Typical Residential	13	5	15	5.42	14	8.61	Asphalt
65	73	RITA ST.	17+58.46	LEFT	Typical Residential	13	5	10	5.42	12	4.52	Flex base
65	74	RITA ST.	17+37.85	RIGHT	Typical Residential	13	5	10	5.42	14	7.50	Asphalt
65	75	RITA ST.	18+10.44	LEFT	Typical Residential	13	5	17	5.42	12	3.33	Flex base
66	76	RITA ST.	17+91.74	RIGHT	Typical Residential	20	5	10	5.42	14	6.87	Flex base
66	77	RITA ST.	18+58.98	LEFT	Typical Residential	13	5	10	5.42	14	2.33	Flex base
66	78	RITA ST.	18+61.75	RIGHT	Typical Residential	13	5	10	5.42	14	2.34	Flex base
66	79	RITA ST.	19+15.74	LEFT	Typical Residential	13	5	29	5.42	14	1.81	Flex base
66	80	RITA ST.	19+06.04	RIGHT	Typical Residential	13	5	14	5.42	14	4.00	Flex base
66	81	RITA ST.	19+78.05	LEFT	Typical Residential	13	5	10	5.42	14	0	Flex base
66	82	RITA ST.	19+75.95	RIGHT	Typical Residential	13	5	10	5.42	14	0.81	Flex base
66	83	RITA ST.	20+20.72	LEFT	Typical Residential	13	5	10	5.42	14	1.17	Flex base
66	84	RITA ST.	20+26.73	RIGHT	Typical Residential	13	5	10	5.42	14	2.60	Flex base
66	85	RITA ST.	20+71.43	LEFT	Typical Residential	13	5	10	5.42	14	4.47	Flex base
66	86	RITA ST.	21+03.05	RIGHT	Typical Residential	13	5	10	5.42	14	2.31	Asphalt
66	87	RITA ST.	21+19.31	LEFT	Typical Residential	13	5	10	5.42	14	4.54	Asphalt
66	88	RITA ST.	21+44.18	RIGHT	Typical Residential	15	5	12	5.42	14	2.60	Concrete
66	89	RITA ST.	21+76.38	LEFT	Typical Residential	14	5	11	5.42	14	3.28	Flex base
67	90	RITA ST.	22+21.77	RIGHT	Typical Residential	15	5	12	3.71	14	7.88	Flex base
67	91	RITA ST.	22+23.71	LEFT	Typical Residential	19	5	16	5.42	14	6.29	Flex base
67	92	RITA ST.	23+01.02	RIGHT	Typical Residential	15	5	14	5.42	12	4.58	Flex base
67	93	RITA ST.	22+98.84	LEFT	Typical Residential	13	5	16	5.42	12	1.34	Flex base
67	94	RITA ST.	23+29.90	RIGHT	Typical Residential	17	5	14	5.42	12	2.60	Flex base
67	95	RITA ST.	23+22.29	LEFT	Typical Residential	13	5	10	5.42	12	6.52	Flex base



TYPICAL DRIVEWAY PLAN VIEW
WITH SIDEWALK ABUTTING CURB
N.T.S.



TYPICAL DRIVEWAY SECTION
WITH SIDEWALK ABUTTING CURB
N.T.S.



12.19.25

3			
2			
1	ADDENDUM 1	MG	12.19.25
NO.	REVISION	BY	DATE
	3		
<p>AG3 Group, LLC ENGINEERING-SURVEY-CONSTRUCTION</p> <p>4800 FREDERICKSBURG RD SUITE 200SL SAN ANTONIO, TX 78229 P.210-208-9400 F.210-208-9401 TBPE #F-21809 TBPLS #10194622</p>			
<p>CITY OF SAN ANTONIO PUBLIC WORKS DEPARTMENT</p> <p>CULEBRA AREA STREETS</p> <p>DRIVEWAY SUMMARY</p>			
100% SUBMITTAL	PROJECT NOc 23-03873	DATEc 05/28/2025	
DRWN. BYc 55	DSGN. BYc 55	CHKD. BYc MG	SHEET NO. 12

S:\CoSA\07_Street\04_Roadway\ADDENDUM 1.dwg
 11/19/2024 10:00 AM
 8/1/2024 10:00 AM


ROADWAY QUANTITIES

	ITEM NO.	104.1	203.1	208.1	240.2	240.2	240.4	307.1	500.1	500.4	502.1	503.1	503.1	513.1	4000
	DESCRIPTION	STREET EXCAVATION (1,000 CY < X < 10,000 CY)	TACK COAT	SALVAGE, HAULING, AND STOCKPILING RAC (2.5 INCHES DEPTH)	WARM MIX ASPHALTIC CONCRETE TYPE B (3.5" COMP DEPTH TOP)	WARM MIX ASPHALTIC CONCRETE TYPE B (1.5" COMP DEPTH TOP)	WARM MIX ASPHALTIC CONCRETE TYPE D (2.0" COMP DEPTH)	CONCRETE STRUCTURE (RETAINING WALLS)	CONCRETE CURB (<1,000 LF)	CONCRETE CURB AND GUTTER (>1,000 LF)	CONCRETE SIDEWALKS (1,000 SY < X < 10,000 SY)	PORTLAND CEMENT CONCRETE DRIVEWAYS (100 SY < X < 10,000 SY)	PORTLAND CEMENT CONCRETE DRIVEWAYS (PENETRATION)	REMOVING AND RELOCATING MAIL BOXES (< 50 UNITS)	SPEED HUMPS TYPE II MODULAR RUBBER CUSHIONS
	UNIT	CY	GAL	SY	SY	SY	SY	CY	LF	LF	SY	SY	SY	EA	EA
STREET	SHEET NO.														
LAVEN	58	354	269	0	1343	1500	1343	0	243	571	374	158	128	6	0
	59	300	227	276	1136	1269	1412	0	0	628	278	115	79	4	3
PETTUS	60	303	229	0	1147	1281	1423	0	0	739	275	158	114	4	0
	61	373	283	0	1415	1580	1691	0	0	811	308	123	82	9	0
	62	328	249	0	1244	1389	1520	0	0	800	268	228	158	9	0
	63	248	188	0	941	1051	1217	0	26	551	214	164	100	9	0
BRENDELL	64	348	263	0	1317	1471	1593	36	76	723	327	55	128	0	0
	65	217	164	0	821	917	1097	0	0	528	235	13	0	0	0
RITA	66	316	240	0	1198	1338	1474	0	30	771	231	271	109	5	0
	67	279	211	0	1057	1180	1333	24	0	680	348	181	127	5	0
	68	328	249	0	1244	1389	1520	0	0	800	287	185	34	13	0
	69	121	92	0	458	511	734	0	0	295	106	92	40	3	0
	TOTAL	3515	2664	276	13321	14875	16362	60	375	7897	3251	1743	1099	67	3

* ITEM 210 "ROLLING" IS SUBSIDIARY TO 205.2

REMOVAL QUANTITIES

	ITEM NO.	103.1	103.3	507.1	523.1
	DESCRIPTION	REMOVE CONCRETE CURB (<700 LF)	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS (<1,000 SF)	CHAIN LINK WIRE FENCE (4' HIGH)	ADJUSTING CHAIN LINK VEHICULAR GATE (<50 UNITS)
	UNIT	LF	SF	LF	EA
STREET	SHEET NO.				
LAVEN	58	814	2587	0	0
	59	628	2528	0	1
PETTUS	60	0	11	105	5
	61	0	258	66	3
	62	0	238	156	5
	63	73	427	13	4
BRENDELL	64	219	1458	104	1
	65	0	381	0	2
RITA	66	0	0	15	2
	67	0	0	70	4
	68	0	0	172	3
	69	0	0	92	1
	TOTAL	1734	7888	793	31

ADDENDUM 1	MG	12.19.25
NO.	REVISION	BY DATE
 4800 FREDERICKSBURG RD SUITE 200SL SAN ANTONIO, TX 78229 P.210-208-9400 F.210-208-9401 TBPE #F-21809 TBPLS #10194622		
CITY OF SAN ANTONIO PUBLIC WORKS DEPARTMENT		
CULEBRA AREA STREETS SUMMARY OF QUANTITIES		
100% SUBMITTAL	PROJECT NO: 23-03873	DATE: 05/28/2025
DRWN. BY: 55	DSGN. BY: 55	CHKD. BY: MG SHEET NO. 15

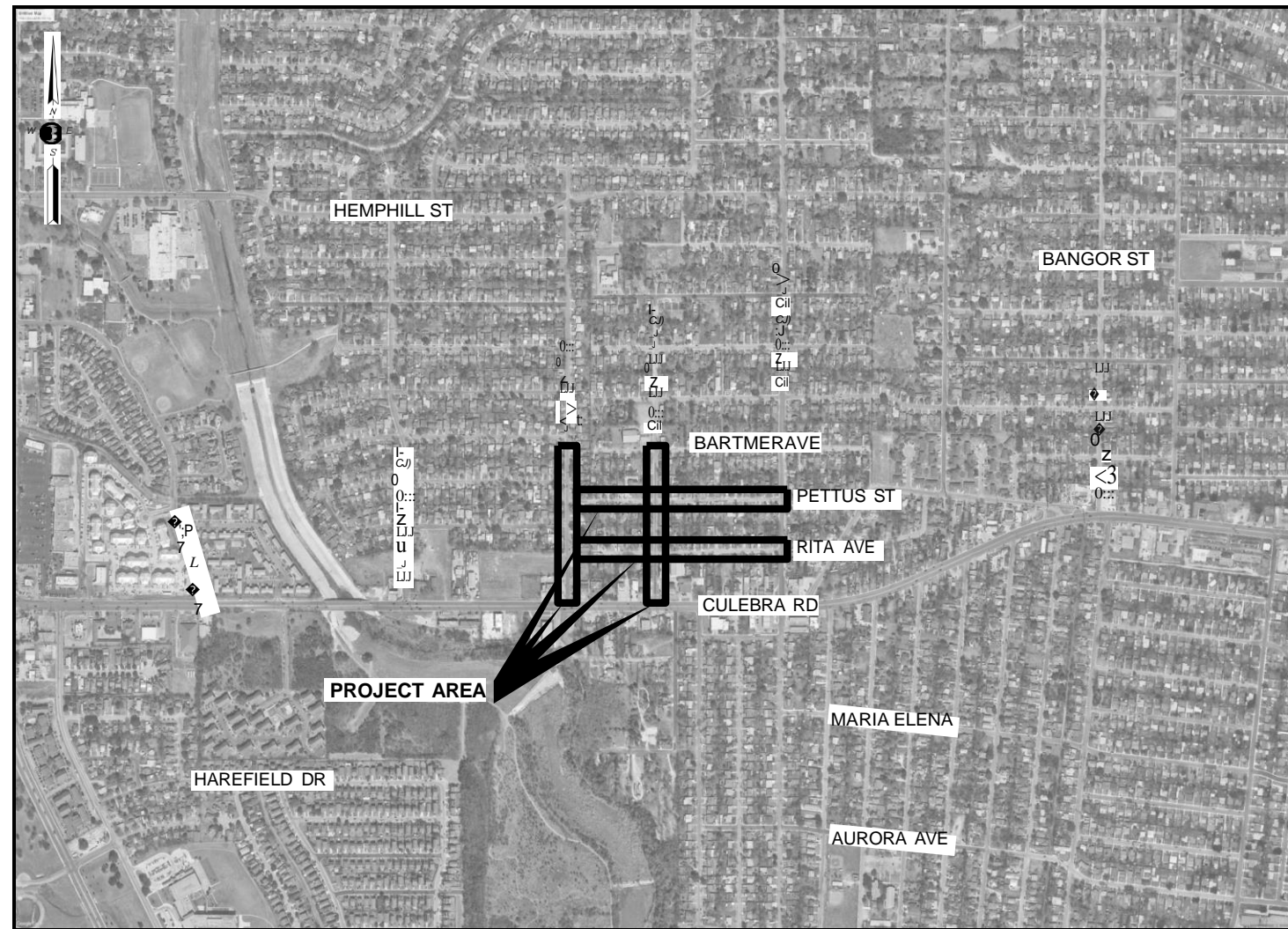
CULEBRA PARK AREA STREETS GAS RELOCATION LAVEN DR, PETTUS ST, BRENDLELL ST & RITA AVE

CITY OF SAN ANTONIO, BEXAR COUNTY, TEXAS
PROJECT NO: G-0272
JOB NO: 40759309

DESCRIPTION	BY	APVD BY	DATE

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6	Location Data Table-1
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9	Plan View - Laven Dr - STA 100+00 to 103+00
10	Plan View - Laven Dr - STA 103+00 to 106+00
11	Plan View - Laven Dr - STA 106+00 to 108+36
12	Plan View - Pettus St - STA 10+50 to 13+00
13	Plan View - Pettus St - STA 13+00 to 16+00
14	Plan View - Pettus St - STA 16+00 to 19+00
15	Plan View - Rita Ave - STA 10+00 to 13+00
16	Plan View - Rita Ave - STA 13+00 to 16+00
17	Plan View - Rita Ave - STA 16+00 to 19+00
18	Plan View - Easement - STA 00+00 to 00+00



LOCATION MAP

DECEMBER 2025



Youssef

12-28-2025

CPS ENERGY

P.O. BOX 1771
SAN ANTONIO, TX 78296



4800 FREDERICKSBURG RD SUITE 200SL
SAN ANTONIO, TX 78232
P-210-208-9400 F-210-208-9401
TBPE #F-21809
TBPLS #10194622

Binkley & Barfield, Inc.
BinkleyBarfield | BinkleyBarfield.com
210.502.2175

CULEBRA PARK AREA STREETS
GAS RELOCATION
LAVEN DR, PETTUS ST, BRENDLELL ST
& RITA AVE
COVER PAGE 201

PROJECT NUMBER: G-0272	
DRAWING NUMBER:	
COUNTY: BEXAR, TX	DATE: 12/28/2025
ENGINEER: YAL	DRAWN BY: LH
PAGE 1 OF 18	

General Notes

- All proposed gas mains are to be installed at 5'-0" of cover unless otherwise noted on the sketch, indicated on the Location Data Table, or as directed by the CPS Inspector or Field Representative. All proposed gas services are to be installed at the elevations indicated on the Location Data Table or as directed by the CPS Inspector or Field Representative.
- All services labeled with an "R" are to be rerun from main to meter and services labeled with a "R1" are to be rerun from main to 1' inside the property line. From main to 1' inside the property line, the services are to be installed at the elevation indicated on the Location Data Table. For services labeled with a "T", the existing service is to be tied over to the new main and services labeled with an "A" are to be abandoned.
- Gas main is to be abandoned in sections no longer than 300 feet. Each section is to be purged of gas with nitrogen and sealed with concrete. All abandoned services are to be plugged. All abandoned services are to be plugged.
- If the general contractor requires temporary tie-ins that are not shown on the CPS Energy sketch due to project phasing or to accommodate this project in any way, this work will be done at the general contractor's expense. General Contractor will also be responsible for all costs associated with power pole bracing whenever bracing is required for the installation of proposed gas facilities.
- The locations of underground utilities indicated on the job sketch are taken from the best records available and are not guaranteed to be accurate. Foreman/Contractor shall verify location and depth of all existing utilities, whether shown on the plans or not, and shall be responsible for the protection of existing utilities during construction. Foreman/Contractor shall notify 811 for all utility locates and maintain an open ticket for the duration of the gas work.
- Gas valves and underground gas facility access points should remain accessible at all times. Contractor must notify the CPS Energy project manager at least 48 hours prior to construction in order to adjust existing valve covers or access prints within the proposed area of construction.
- In accordance with the Texas Administrative Code Title 30, Part 1, Ch.305 and in compliance with the Clean Water Act, 33 U.S.C. 1251, for projects that will disturb 5 or more acres of land or will disturb less than 5 acres of land but is part of a common plan of development that will ultimately disturb 5 or more acres, the General Contractor is responsible for submitting the Notice of Intent (NOI) through the Texas Commission on Environmental Quality (TCEQ) Electronic State of Texas Environmental Electronic Reporting System (STEERS) and pay permit fee. The General Contractor will need to ensure Sub-Contractor compliance under TCEQ Construction General Permit requirements. NOI must be certified prior to earth disturbing activities. In accordance with Texas Pollutant Discharge Elimination System (TPDES) TCEQ Construction General Permit. Permit becomes active the same day that the NOI is certified.
- All gas facilities will require proper connection for cathodic protection and locating purposes as indicated by CPS. Call Corrosion Control at 353-3237 prior to installing, adjusting, or abandoning gas lines and before connecting or disconnecting wires to any CPTLB.
- All new polyethylene gas services and mains are to be joined by butt fusion. Compression couplings shall not be used on new gas line construction.
- TRENCH EXCAVATION PROTECTION:** Contractor and/or Contractor's independently retained employee or structural design/geotechnical/safety/equipment consultant, if any, shall review these plans and any available geotechnical information and the anticipated installation site(s) in order to develop the Contractor's plans to implement the project described in the Contract Documents. The Contractor's plans shall provide for adequate trench safety systems that comply with, as a minimum, OSHA standards for trench safety consultant shall develop and implement a trench safety program in accordance with OSHA standards governing the presence and activities of individuals working in and around trench excavation.
- The Contractor is hereby notified that all coal tar pipe coating and asphaltic pipe insulation is assumed to contain non-friable asbestos materials. The Contractor must follow all requirements in OSHA 1926.1101 to protect workers when removing the coating materials. The coal tar/asphaltic pipe insulation coating shall be removed using wet methods. Air removed coal tar pipe coating and asphaltic pipe insulation must be gathered, contained in 6-mil polyethylene sheeting, sealed with tape and delivered to the CPS Energy Mission Road Construction Center at 613 Mission Road, 78210. These requirements must be followed unless otherwise noted on the plans.
- In accordance with 49 CFR 192.383 & 192.385, The operator shall install either a manual service line shut-off valve or, if possible, based on sound engineering analysis and availability, an EFV for any new or replaced service line with installed meter capacity exceeding 1,000 SCFH. An EFV shall also be installed for all services operating at 10 PSIG or greater and having a total meter capacity of 1,000 SCFH or less.
- When casing is used, the casing pipe ends shall be sealed to protect the gas main or service pipe from damage after insertion. Additionally, the leading end of gas main or service pipe shall be closed before inserting into casing pipe.
- Pipe supports must be installed to prevent external loading on plastic pipe when anodeless risers are utilized for regulator stations. The risers must also be installed with appropriate measures to resist lateral movement.
- General contractor's project schedule and associated traffic control plan shall account for the removal of abandoned gas facilities that are in conflict with proposed grading, utilities, drainage structures, or any other planned project activities.

Project Notes

- All R.O.W. acquisition/clearing and OHE pole locations must be completed before gas adjustments. General Contractor will be responsible for all coordination and costs associated with power pole bracing where necessary for the installation of gas facilities.
- Contact Cameron Ruiz@210.353.4213 or CRuiz@cpsenergy.com to schedule a mandatory on-site Pre-Construction meeting at least one week prior mobilizing equipment and materials to the site.
- Contractor will be responsible for all costs associated with removing abandoned utilities or structures that conflict with the installation of proposed gas facilities.
- Contractor must refer to traffic control plan for construction phasing and areas of gas installation/removal for public safety control. Any night/weekend gas work requiring a CPSE Inspector or other CPSE personnel must be schedule with CPS Energy at least one week in advance.
- All fences, landscaping, pavement, structures, curbs, sidewalks, and/or markings shall be restored to existing or better condition if damaged while installing facilities related to the project.
- Crews are to immediately stop work and contact CPS Energy Environment Department at 210.353.2552 if karst (cave-like or voids) features are identified during construction.

ENVIRONMENTAL NOTE:

- Per the fact this is joint bid with a City of San Antonio (GOSA) Project.
- The installation contractor will be under COSA, and the existing Memorandum of Understanding (MOU) in place.
- COSA should be providing and is responsible for all environment related permits for the project.
- GOSA will provide their own Environment Permit, Issues and Concerns (EPIC) Sheet.
- Environment task 2130/2650 has been completed.

Legend

- Center Line
- Existing Property Line
- Proposed Property Line
- Easement Line
- Existing Gas Service
- Existing Gas Main
- Install Gas Service
- Install Gas Main
- Abandon Gas
- Cable TV
- Telephone
- Sanitary Sewer
- Proposed Drainage
- Existing Drainage
- Electric
- Water

UTILITY LOCATING REQUIREMENTS

- Call 811 to request utility locates at least two working days (excluding weekends and holidays) prior to excavating.
- Contact water and sewer utilities directly to request utility locates prior to excavating. Request for locates shall be submitted within the time frame required by the utility.
- Call 811 to request emergency gas utility locates.
- Contact TxDOT and Railroad directly, in addition to 811 and water/sewer utilities, to coordinate utility locates within TxDOT or Railroad right-of-way.
- Utility locate markings should remain visible throughout the duration of excavation activities.



Construction Points		Install			Abandon	
From	To	Pipe Size	Length	MAOP	Pipe Size	Length
1	2	4PA	1480'	33 psig	2-DP	1335'
3	4	2PA	778'	33 psig	2-DP	441'
5	6	2PA	48'	33 psig	2-DP	38'
7	8	2PA	178'	33 psig		
8	9	2PA	10'	33 psig		
10	11	2PA	12'	33 psig		
		Install			Abandon	
		Total 4PA	1480'		Total 2DP	1,814'
		Total 2PA	1026"			

DP Service Insertion Notes

- Rerunning of services shall be done as designated (see General Note Number 2).
- Insert 1" & 1/4" steel residential services with anodeless polyethylene (PE) as follows:
 - Run 1" PE pipe from main to one foot inside the property line.
 - Insert 1/2" PE pipe from one foot inside the property line to the pigtail of an anodeless riser.
 - The 1/2" PE insertion shall not exceed 100 feet in length.
- The minimum service size to a commercial property shall be 1.25".
- Steel risers are to be replaced with anodeless risers of equal size.
- Insertion shall not be used:
 - on services 1-1/2" or larger.
 - On services to a manifold that serves, or has the potential to serve, more than one meter.
 - On services requiring a 30 Lt. meter or larger.
- Any variance from the above standards should be approved by Gas Engineering.
- Installation of EFVs or manual valves shall be performed in accordance with 49 CFR 192.383 & 192.385.

The 90 PSIG pressure test applies to all lines with an MAOP of 59 and below.

Pressure Test	
Test Medium: Air/ Nitrogen / Gas	
Minimum Test Pressure: 90 PSIG	
Minimum Test Duration: 1 Hour	
Test Pressure: _____ PSIG	
Test Duration: _____	
CPS Inspector: _____	
Tested By: _____	
Date: _____	
Segment Tested: _____	

Construction	
Contractor	_____
Center	_____
By	_____
Start Date	_____
Comp. Date	_____
CPS Inspector	_____

NO.	DRAWING REVISION	DATE	CHECKED BY:	DATE APPROVED:	DESIGN BY:	PHONE:	JOB TITLE:	JOB NO.
0	Planning Completed	12/28/25	WTF	12/23/2025	OSCAR JURIA	713.869.3433	CULEBRA PARK AREA STREETS GAS RELOCATION LAVEN DR, PETTUS ST, BRENDELL ST & RITA AVE GENERAL NOTES, ESTIMATED QUANTITIES & LEGEND	40759309
			APPROVED BY:	DATE APPROVED:	MAP QUADRANTS	PROJECT NO.		
				12/23/2025	13-58 X= 2099780 Y=13710853	G-0272		



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SAN ANTONIO, TX 78296



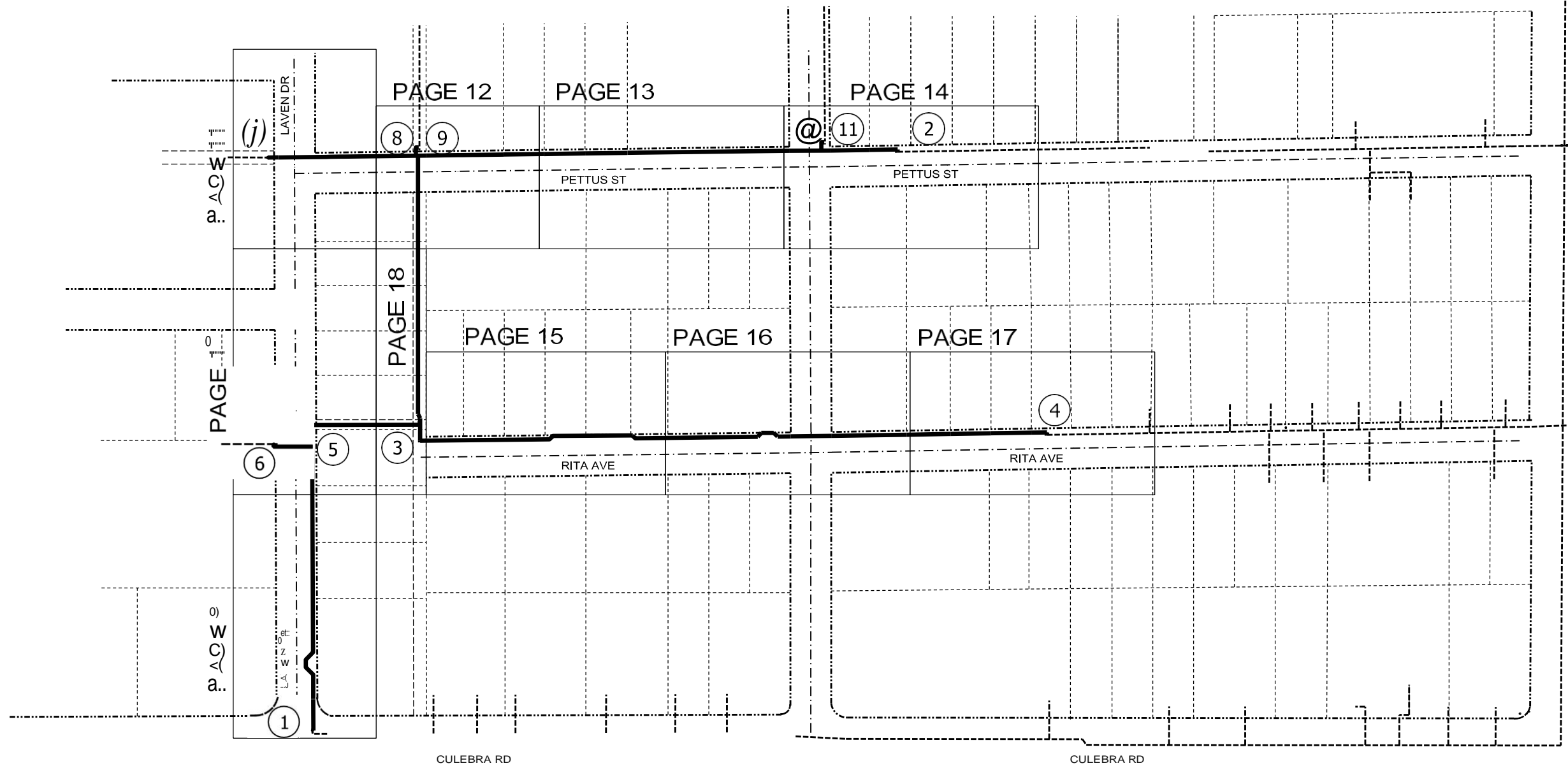
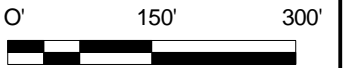
4800 FREDERICKSBURG RD SUITE 200SL SAN ANTONIO, TX 78232 P:210-208-9400 F:210-208-9401 TBPE #F-21809 TBPLS #10194622

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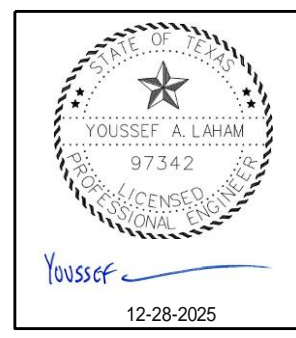
SCALE



TIE-IN & PURGE PLAN

1. After 4PA main is installed and tested from CP1 to CP2, tie-in at CP1 & CP2.
2. Purge from CP1 to CP2 until 100% gas is obtained.
3. Tie-in at CP3 & CP4 and Purge until 100% gas is obtained.
4. Tie-in at CP5 & CP6 and Purge until 100% gas is obtained.
5. Tie-in at CP7 & CP8 and Purge until 100% gas is obtained.
6. Tie-in at CP8 & CP9 and Purge until 100% gas is obtained.
7. Tie-in at CP10 & CP11 and Purge until 100% gas is obtained.
8. Abandon mains once services have been tied over to new mains.

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 Binkley & Barfield, Inc.
 TxEng F-257
 14310 Northbrook Dr.
 Suite 200
 San Antonio, TX 78232
 210.502.2175
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0	Planning Completed	12/28/25	WTF	12/23/2025	OSCAR JURIA	713.869.3433	CULEBRA PARK AREA STREETS GAS RELOCATION LAVEN DR, PETTUS ST, BRENDLELL ST & RITA AVE KEY MAP	40759309
			APPROVED BY:	DATE APPROVED:	MAP QUADRANTS	PROJECT NO.		
			W?Tr?	12/23/2025	13-58 X= 2099780 Y=13710853	G-0272	CPS ENERGY P.O. BOX 1771 SAN ANTONIO, TX 78296	AG3 AG3 Group, LLC ENGINEERING - SURVEY - CONSTRUCTION 4800 FREDERICKSBURG RD SUITE 200SI SAN ANTONIO, TX 78232 P:210-208-9400 F:210-208-9401 TBPE #F-21809 TBPLS #10194622

P.A.C.W. 18

NOTE: Construction personnel shall make any changes necessary to the pre-populated print line data shown. All pipe material specifications shall be field verified prior to entering data on this sheet.

POINT SPAN	PIPE PRINT LINE DATA (EXAMPLE SHOWN)	LENGTH	TEST MEDIUM	TEST DURATION	TEST PRESSURE	CPS INSPECTOR	TESTED BY	DATE
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513							
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513							
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513							
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513							
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513							
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513							
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513							
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513							
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513							
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513							
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513							
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513							
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513							
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513							
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513							
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513							
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513							
1 to 2	2" IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513 WT015 Y NR 0356 AI-043 27Jul06 coil#OI52	1,200	Air	1 hour	90 psig	Inspector Name	Foreman or Contractor Name	05/31/2017

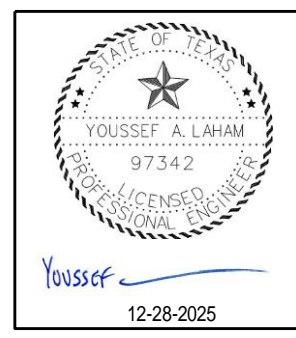
POINT SPAN	WELD/ FUSE INSPECTION VERIFICATION	INSPECTOR COMMENTS
	INSPECTOR NAME: _____ INSPECTOR SIGNATURE: _____ DATE: _____	
	INSPECTOR NAME: _____ INSPECTOR SIGNATURE: _____ DATE: _____	
	INSPECTOR NAME: _____ INSPECTOR SIGNATURE: _____ DATE: _____	
	INSPECTOR NAME: _____ INSPECTOR SIGNATURE: _____ DATE: _____	
	INSPECTOR NAME: _____ INSPECTOR SIGNATURE: _____ DATE: _____	
	INSPECTOR NAME: _____ INSPECTOR SIGNATURE: _____ DATE: _____	

NOTE: Signatures above confirm that all steel welds and plastic fuses were thoroughly inspected by authorized and qualified CPS Energy representative(s) in accordance with CPS Energy and regulatory compliance requirements.

MINIMUM TEST PRESSURE= 90 PSIG
 MAXIMUM TEST PRESSURE = 100 PSIG
 MINIMUM TEST DURATION= 1 HOUR
 NOTE: The 90 PSIG pressure test applies to all lines with an MAOP of 59 and below.

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 TxEng F-257
 14310 Northbrook Dr.
 Suite 200
 San Antonio, TX 78232
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0	Planning Completed	12/28/25	WTF	12/23/2025	OSCARJURIA	713.869.3433	CULEBRA PARK AREA STREETS GAS RELOCATION LAVEN DR, PETTUS ST, BRENDELL ST & RITA AVE LINE DATA TABLE	40759309
			APPROVED BY:	DATE APPROVED:	MAP QUADRANTS	PROJECT NO.	CPS ENERGY P.O. BOX 1771 SAN ANTONIO, TX 78296	
			W Tr7-	12/23/2025	13-58 X= 2099780 Y= 13710853	G-0272	AG3 AG3 Group, LLC ENGINEERING - SURVEY - CONSTRUCTION 4800 FREDERICKSBURG RD SUITE 200SI SAN ANTONIO, TX 78232 P:210-208-9400 F:210-208-9401 TBPE #F-21809 TBPLS #10194622	

NOTE: Construction personnel shall make any changes necessary to the pre-populated print line data shown. All pipe material specifications shall be field verified prior to entering data on this sheet.

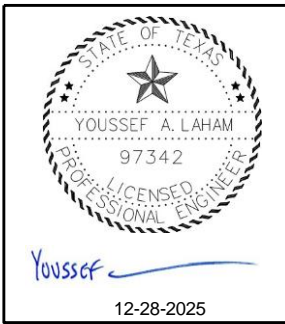
POINT SPAN	PIPE PRINT LINE DATA (EXAMPLE SHOWN)	LENGTH	TEST MEDIUM	TEST DURATION	TEST PRESSURE	CPS INSPECTOR	TESTED BY	DATE	
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513								
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513								
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513								
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513								
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513								
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513								
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513								
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513								
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513								
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513								
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513								
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513								
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513								
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513								
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513								
	IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513								
1 to 2	2" IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513	WT015 Y NR 0356 AI-043 27Jul06 coil#OI52	1,200	Air	1 hour	90 psig	Inspector Name	Foreman or Contractor Name	05/31/2017

POINT SPAN	WELD/ FUSE INSPECTION VERIFICATION	INSPECTOR COMMENTS
	INSPECTOR NAME: _____ INSPECTOR SIGNATURE: _____ DATE: _____	
	INSPECTOR NAME: _____ INSPECTOR SIGNATURE: _____ DATE: _____	
	INSPECTOR NAME: _____ INSPECTOR SIGNATURE: _____ DATE: _____	
	INSPECTOR NAME: _____ INSPECTOR SIGNATURE: _____ DATE: _____	
	INSPECTOR NAME: _____ INSPECTOR SIGNATURE: _____ DATE: _____	
	INSPECTOR NAME: _____ INSPECTOR SIGNATURE: _____ DATE: _____	

NOTE: Signatures above confirm that all steel welds and plastic fuses were thoroughly inspected by authorized and qualified CPS Energy representative(s) in accordance with CPS Energy and regulatory compliance requirements.

MINIMUM TEST PRESSURE= 90 PSIG
 MAXIMUM TEST PRESSURE = 100 PSIG
 MINIMUM TEST DURATION= 1 HOUR
 NOTE: The 90 PSIG pressure test applies to all lines with an MAOP of 59 and below.

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0	Planning Completed	12/28/25	WTF	12/23/2025	OSCARJURIA	713.869.3433	CULEBRA PARK AREA STREETS GAS RELOCATION LAVEN DR, PETTUS ST, BRENDLELL ST & RITA AVE LINE DATA TABLE	40759309
			APPROVED BY:	DATE APPROVED:	MAP QUADRANTS	PROJECT NO.	CPS ENERGY P.O. BOX 1771 SAN ANTONIO, TX 78296	
				12/23/2025	13-58 X= 2099780 Y= 13710853	G-0272	AG3 AG3 Group, LLC ENGINEERING - SURVEY - CONSTRUCTION	
							4800 FREDERICKSBURG RD SUITE 200SI SAN ANTONIO, TX 78232 P:210-208-9400 F:210-208-9401 TBPE #F-21809 TBPLS #10194622	

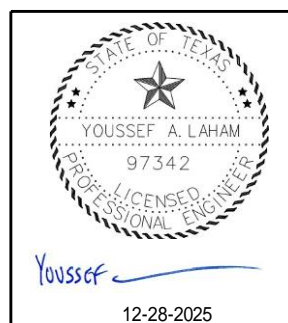


All proposed gas mains and services are to be installed at the planned Gas Top of Pipe Elevation indicated on the Location Data Table.

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Location Data Table - LAVEN DRIVE - Pages 9 to 11

CS4 Item#	Location			Grade Elevations			Gas Requirements		Planned Depth of Gas			Potential Conflicting Facility			Clearance		Installation Method	
	Address	Location # / Street Name	Station Marker	Existing Grade	Proposed Final Grade	Estimated Subgrade	Gas Pipe Size	Planned Gas T.O.P. Elevation	From Existing Grade	From Final Grade	From Estimated Subgrade	Proposed Facility Description	Top Elevation	Bottom Elevation	Above Prop. Facility	Below Prop. Facility	Bore	Trench
		13	100+92	737.7	737.7	736.5	4" p	729.0	8.7	8.7	7.5	Prop. 24" RCP	738.4	731.0		2.0		X
		16	103+56	746	746	744.8	4" p	734.2	11.8	11.8	10.6	Exist. 8" Water	740.3	739.6		5.4	X	
		17	103+56	746	746	744.8	4" p	734.2	11.8	11.8	10.6	Prop. 4'x3' Culvert	741.2	736.2		2.0		X
		20	107+12	748.1	748.1	746.9	4" p	741.4	6.7	6.7	5.5	Exist. 8" Water	744.1	743.4		2.0	X	



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 TxEng F-257
 14310 Northbrook Dr.
 Suite 200
 San Antonio, TX 78232
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0	Planning Completed	12/28/25	WTF	12/23/2025	OSCAR JURIA	713.869.3433	CULEBRA PARK AREA STREETS GAS RELOCATION LAVEN DR, PETTUS ST, BRENDLELL ST & RITA AVE LOCATION DATA TABLE	40759309
			APPROVED BY:	DATE APPROVED:	MAP QUADRANTS	PROJECT NO.	CPS ENERGY P.O. BOX 1771 SAN ANTONIO, TX 78296	
			WTrf	12/23/2025	13-58 X= 2099780 Y=13710853	G-0272	AG3 AG3 Group, LLC ENGINEERING - SURVEY - CONSTRUCTION 4800 FREDERICKSBURG RD SUITE 200SI SAN ANTONIO, TX 78232 P:210-208-9400 F:210-208-9401 TBPE #F-21809 TBPLS #10194622	

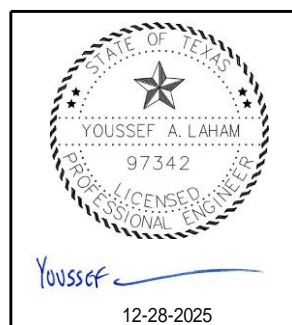
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All proposed gas mains and services are to be installed at the planned Gas Top of Pipe Elevation indicated on the Location Data Table.

Location Data Table - PETTUS STREET - Page 12 to 14

CS4 Item#	Location			Grade Elevations			Gas Requirements		Planned Depth of Gas			Potential Conflicting Facility			Clearance		Installation Method	
	Address	Location # / Street Name	Station Marker	Existing Grade	Proposed Final Grade	Estimated Subgrade	Gas Pipe Size	Planned Gas T.O.P. Elevation	From Existing Grade	From Final Grade	From Estimated Subgrade	Proposed Facility Description	Top Elevation	Bottom Elevation	Above Prop. Facility	Below Prop. Facility	Bore	Trench
		21	11+53	749.3	741.3	740	4" p	739	10.3	2.3	1.0	Exist. 8" Sanitary	741.6	741.0		2.0		X
4	5222	23	13+14	754.3	750.8	749.5	1" p	745.8	8.5	5.0	3.8	Prop. 36" RCP	750.8	747.8		2.0		X
4	5222	25	13+14	754.3	749	747.8	1" p	745.8	8.5	3.2	2.0	Exist. 8" Water	749.3	748.7		2.9	X	
4	5214	29	14+04	755.8	755.8	754.5	1" p	747.1	8.6	8.6	7.4	Exist. 8" Water	751.8	751.1		4.0	X	
4	5210	32	14+64	757	757	755.8	1" p	748.2	8.8	8.8	7.5	Exist. 8" Water	753	752.3		4.1	X	
		36	16+14	759.3	759.3	758	4" p	752.6	6.6	6.6	5.4	Exist. 8" Water	755.3	754.6		2.0	X	
4	5222	63	13+14	754.3	754.3	753.0	1" p	745.8	8.5	8.5	7.2	Exist. 8" Sanitary	749.3	748.6		2.8		X
4	5214	64	14+04	755.8	755.8	754.5	1" p	747.1	8.6	8.6	7.4	Exist. 8" Sanitary	749.8	749.1		2.0		X
4	5210	65	14+64	757.0	757.0	755.8	1" p	748.2	8.8	8.8	7.5	Exist. 8" Sanitary	751.0	750.3		2.1		X
		68	11+51	749.8	749.2	748.0	4" p	741.5	8.3	7.7	6.5	Prop. 36" RCP	746.5	743.5		2.0		X
		69	11+51	749.8	749.8	748.5	4" p	741.5	8.3	8.3	7.0	Exist. 8" Sanitary	744.8	744.1		2.6		X

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 TxEng F-257
 14310 Northbrook Dr.
 Suite 200
 San Antonio, TX 78232
 210.502.2175
 BinkleyBarfield.com

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0	Planning Completed	12/28/25	WTF	12/23/2025	OSCAR JURIA	713.869.3433	CULEBRA PARK AREA STREETS GAS RELOCATION LAVEN DR, PETTUS ST, BRENDELL ST & RITA AVE LOCATION DATA TABLE	40759309
			APPROVED BY:	DATE APPROVED:	MAP QUADRANTS	PROJECT NO.	CPS ENERGY P.O. BOX 1771 SAN ANTONIO, TX 78296	
			W Tr7-	12/23/2025	13-58 X=2099780 Y=13710853	G-0272	AG3 AG3 Group, LLC ENGINEERING - SURVEY - CONSTRUCTION 4800 FREDERICKSBURG RD SUITE 200SI SAN ANTONIO, TX 78232 P.210-208-9400 F.210-208-9401 TBPE #F-21809 TBPLS #10194622	

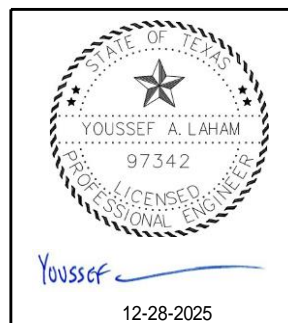
207

All proposed gas mains and services are to be installed at the planned Gas Top of Pipe Elevation indicated on the Location Data Table.

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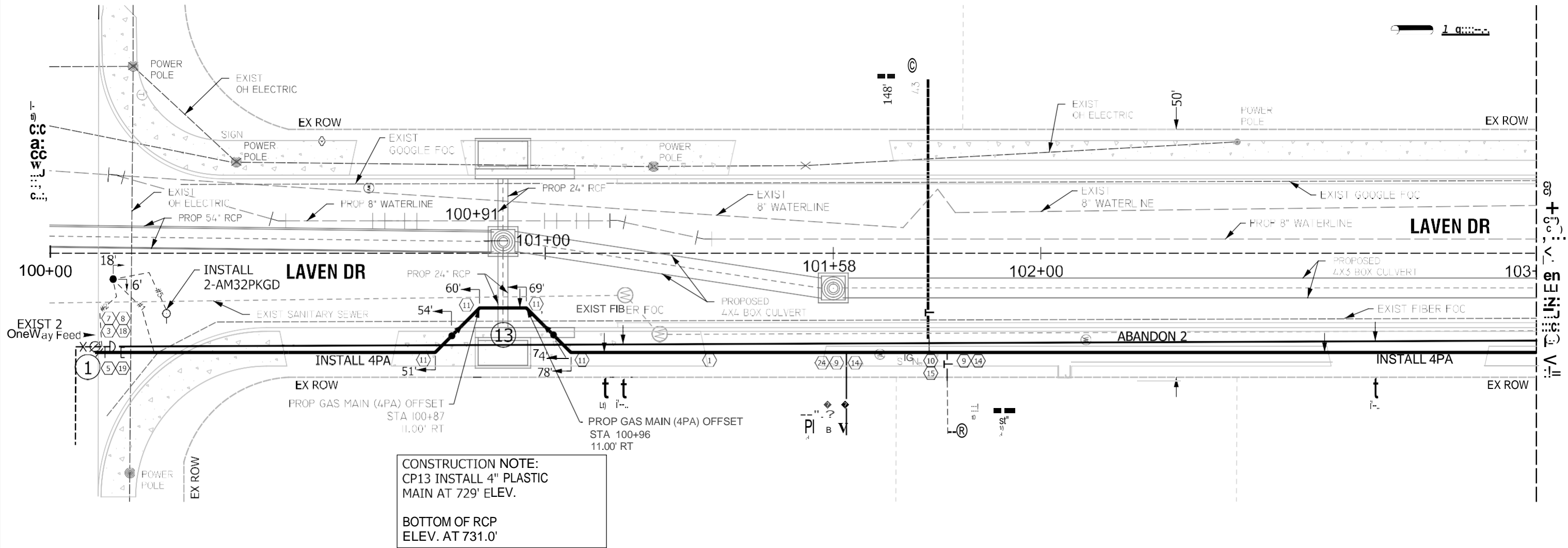
Location Data Table - RITA STREET - Page 15 - 18

CS4 Item#	Location		Station Marker	Grade Elevations			Gas Requirements		Planned Depth of Gas			Potential Conflicting Facility			Clearance		Installation Method	
	Address	Location # / Street Name		Existing Grade	Proposed Final Grade	Estimated Subgrade	Gas Pipe Size	Planned Gas T.O.P. Elevation	From Existing Grade	From Final Grade	From Estimated Subgrade	Proposed Facility Description	Top Elevation	Bottom Elevation	Above Prop. Facility	Below Prop. Facility	Bore	Trench
		41	10+07	743.7	743.7	742.4	2" p	739.9	3.8	3.8	2.5	Exist. 8" Sanitary	737.7	737.0	2.0			X
		54	14+59	753.4	753.4	752.2	2" p	746.5	6.9	6.9	5.6	Exist. 8" Water	749.4	748.7		2.2	X	
		55	14+72	754.4	754.4	753.1	2" p	746.5	7.9	7.9	6.6	Prop. 36" RCP	751.5	748.5		2.0		X
		61	9+94	743.3	741.1	739.9	2" p	736.1	7.2	5.0	3.8	Prop. 5x3 culvert	741.1	738.1		2.0		X
4	1326	62	9+44	743.3	740.6	739.4	1" p	735.6	7.7	5.0	3.8	Prop. 5x3 culvert	740.6	737.6		2.0		X



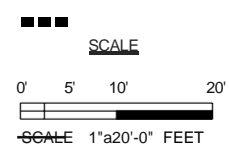
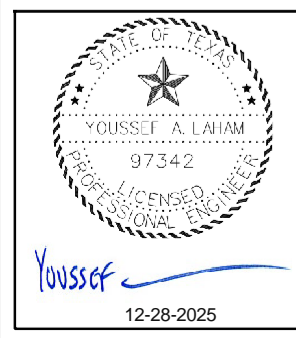
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0	Planning Completed	12/28/25	WTF	12/23/2025	OSCAR JURIA	713.869.3433	CULEBRA PARK AREA STREETS GAS RELOCATION LAVEN DR, PETTUS ST, BRENDLELL ST & RITA AVE LOCATION DATA TABLE	40759309
			APPROVED BY:	DATE APPROVED:	MAP QUADRANTS	PROJECT NO.	CPS ENERGY P.O. BOX 1771 SAN ANTONIO, TX 78296	
			w Tr	12/23/2025	13-58 X=2099780 Y=13710853	G-0272	AG3 AG3 Group, LLC ENGINEERING - SURVEY - CONSTRUCTION 4800 FREDERICKSBURG RD SUITE 200SI SAN ANTONIO, TX 78232 P.210-208-9400 F.210-208-9401 TBPE #F-21809 TBPLS #10194622	208



Material Summary Table - Laven Dr - Page 9

Item	Materials Description	Manufacturer	Design Qty.	Asbuilt Qty.	Stock#
1	PIPE PLASTIC 4" IPS SDR 11 COIL WITH TRACER WIRE		298'		1014020
3	CAP 2" PIPE END WELD				1016606
5	ANODE MAGNESIUM PKG 21" 32LB GRADE B				1016921
7	FITTING SHORTSTOP WELDING 3-WAY TEE 2"				1018419
8	REDUCER PE PIPE 4"x2" BUTT FUSE		1		1015809
9	TEE PE PIPE 4"x1" BUTT FUSE		2		1016170
10	TEE PE PIPE 4"x1 1/4" BUTT FUSE				1016174
11	ELBOW PE 45 DEG 4" BUTT FUSE		4		1015675
14	PIPE PLASTIC 1" IPS SDR 11 COIL WITH TRACER WIRE		22'		1013957
15	PIPE PLASTIC 1-1/4" IPS SDR 11 COIL WITH TRACER WIRE		3'		1013958
18	TRANSITION FITTING 2" STEEL TO PLASTIC				1016105
19	ELBOW PE 90 DEG 2" BUTT FUSE				1015679
24	RISER GAS ANODELESS 1x1x36Wx36H				1022977



NO.	DRAWING REVISION	DATE	CHECKED BY:	DATE APPROVED:	DESIGN BY:	PHONE:	JOB TITLE:	JOB NO.
0	Planning Completed	12/28/25			OSCAR JURIA	713.869.3433	CULEBRA PARK AREA STREETS LAVEN DR, PETTUS ST, BRENDELL ST & RITA AVE PLAN - LAVEN DR STA 100+00 TO STA 103+00	40759309

WTF 12/23/2025

APPROVED BY: **wTr7-** DATE APPROVED: 12/23/2025

MAP QUADRANTS: 13-58 X= 2098977 Y=13710854

PROJECT NO.: G-0272

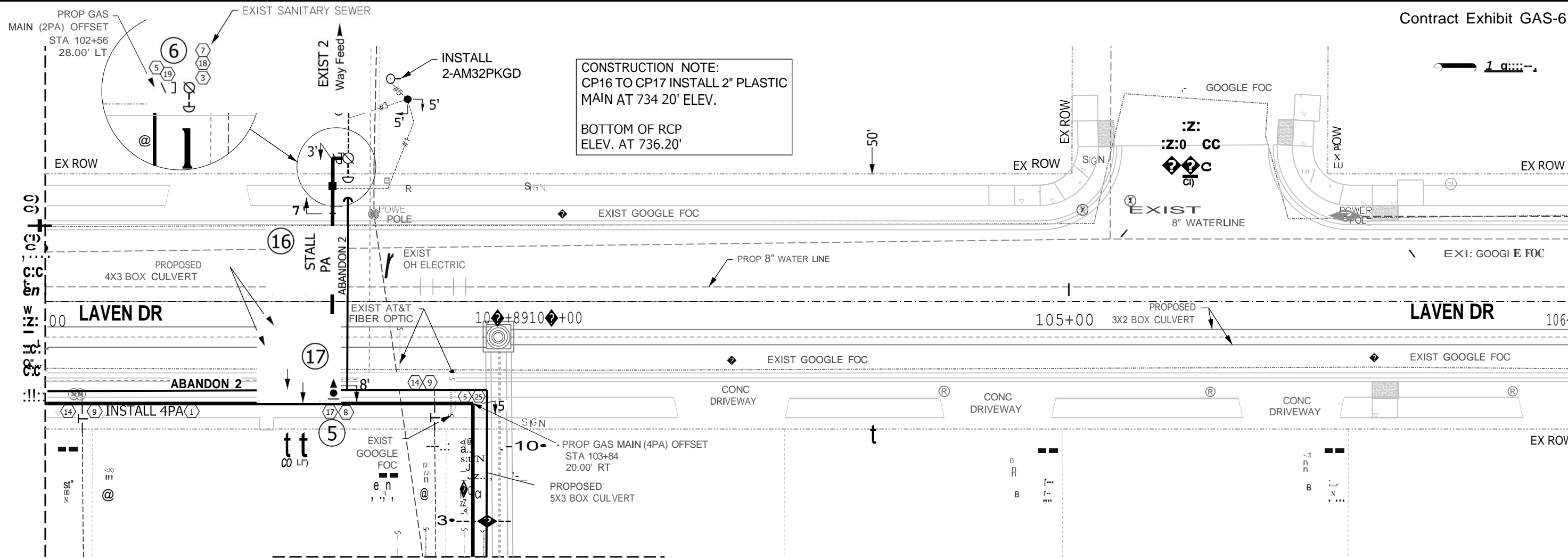
CPS ENERGY
 P.O. BOX 1771
 SAN ANTONIO, TX 78296

AG3
 AG3 Group, LLC
 ENGINEER - SUPPLY - CONSTRUCTOR

4800 FREDERICKSBURG RD
 SUITE 200SL
 SAN ANTONIO, TX 78232
 P.210-208-9400 F.210-208-9401
 TBPE #F-21809
 TBPLS #10194622

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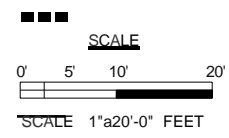
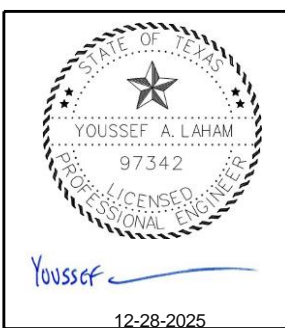


CONSTRUCTION NOTE:
 CP16 TO CP17 INSTALL 2" PLASTIC
 MAIN AT 734 20' ELEV.
 BOTTOM OF RCP
 ELEV. AT 736.20'

MATCHLINE PAGE 18

Material Summary Table - Laven Dr - Page 10

Item	Materials Description	Manufacturer	Design Qty.	Asbuilt Qty.	Stock#
1	PIPE PLASTIC 4" IPS SOR 11 COIL WITH TRACER WIRE		116'		1014020
3	CAP 2" PIPE END WELD				1016606
5	ANODE MAGNESIUM PKG 21" 32LB GRADE B		2		1016921
7	FITTING SHORTSTOP WELDING 3-WAY TEE 2"		1		1018419
8	REDUCER PE PIPE 4"x2" BUTT FUSE				1015809
9	TEE PE PIPE 4"x1" BUTT FUSE		2		1016170
13	PIPE PLASTIC 2" IPS SOR 11 COIL WITH TRACER WIRE		48'		1013959
14	PIPE PLASTIC 1" IPS SOR 11 COIL WITH TRACER WIRE		11'		1016109
17	TEE PE PIPE 4" BUTT FUSE				1015805
18	TRANSITION FITTING 2" STEEL TO PLASTIC				1016105
19	ELBOW PE 90 DEG 2" BUTT FUSE				1015679
25	ELBOW PE 90 DEG 4" BUTT FUSE				1015800



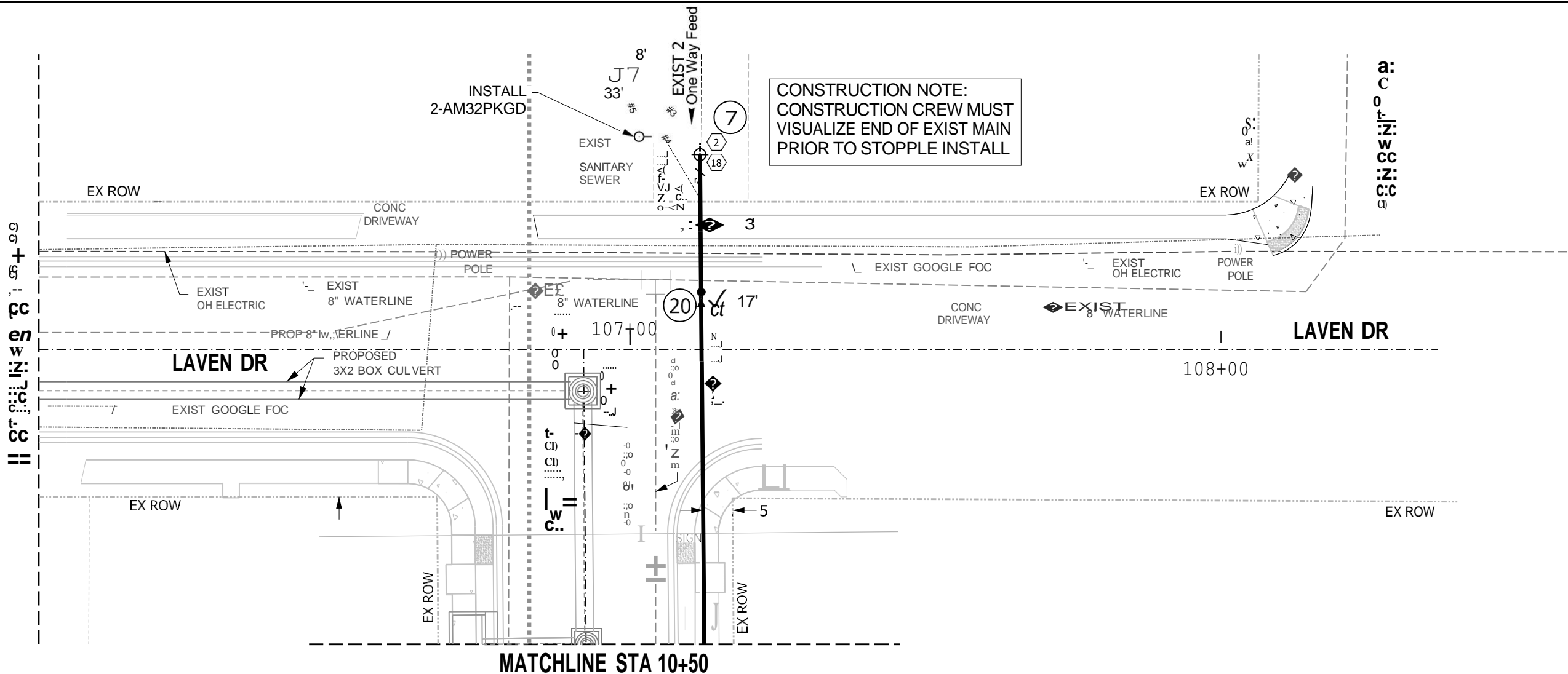
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	0	Planning Completed	12/28/25	WTF	12/23/2025	OSCARJURIA			
			APPROVED BY:	DATE APPROVED:	MAP QUADRANTS	PROJECT NO.			
			WTF	12/23/2025	13-58	G-0272			

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 SAN ANTONIO, TX 78296

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 ENGINEERS - SURVEY - CONSTRUCTORS

4800 FREDERICKSBURG RD
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 SAN ANTONIO, TX 78232
 P-210-208-9400 F-210-208-9401
 TBP# #21809

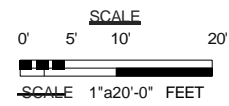
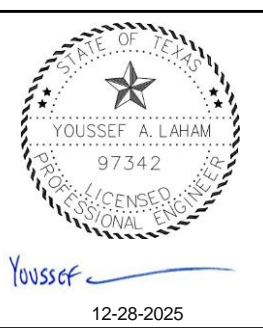
40759309



CONSTRUCTION NOTE:
CONSTRUCTION CREW MUST
VISUALIZE END OF EXIST MAIN
PRIOR TO STOPPLE INSTALL

Material Summary Table - Laven Dr - Page 11

Item	Materials Description	Manufacturer	Design Qty.	Asbuilt Qty.	Stock#
2	FITTING SHORTSTOP 2" WELDING STOPPLE		1		1018412
13	PIPE PLASTIC 2" IPS SOR 11 COIL WITH TRACER WIRE		80'		1013959
18	TRANSITION FITTING 2" STEEL TO PLASTIC				1016105

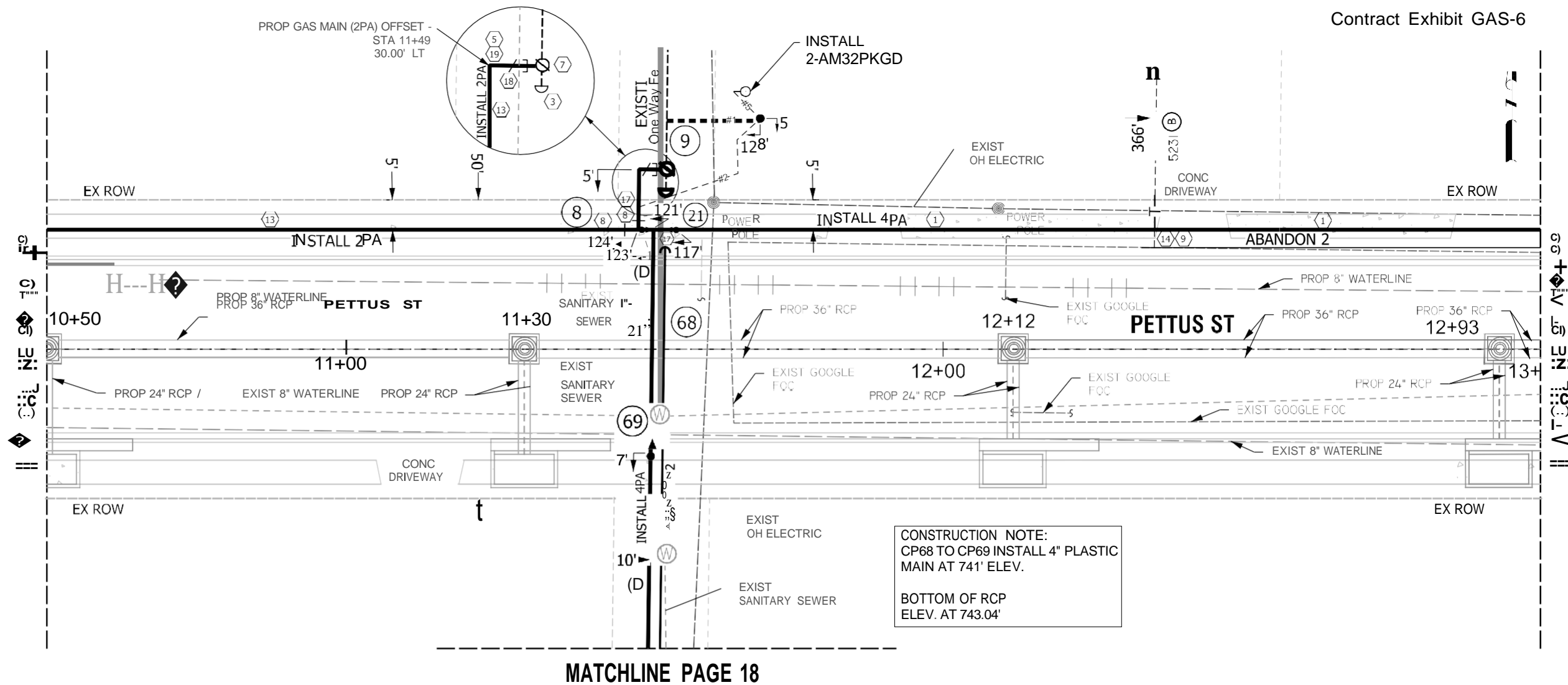


NO.	DRAWING REVISION	DATE
0	Planning Completed	12/28/25

CHECKED BY: WTF	DATE APPROVED: 12/23/2025	DESIGN BY: OSCARJURIA	PHONE: 713.869.3433
APPROVED BY: W Tr7-	DATE APPROVED: 12/23/2025	MAP QUADRANTS 13-58 X= 2098975 Y=13711551	PROJECT NO. G-0272

JOB TITLE: CULEBRA PARK AREA STREETS GAS RELOCATION LAVEN DR, PETTUS ST, BRENDELL ST & RITA AVE PLAN - LAVEN DR STA 106+00 TO STA 108+36		JOB NO. 40759309
CPS ENERGY P.O. BOX 1771 SAN ANTONIO, TX 78296	AG3 AG3 Group, LLC ENGINEERING • SURVEY • CONSTRUCTION 4800 FREDERICKSBURG RD SUITE 200SL SAN ANTONIO, TX 78232 P:210-208-9400 F:210-208-9401 TBPE #F-21809 TBPLS #10194622	

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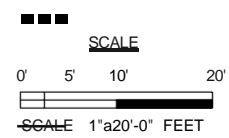
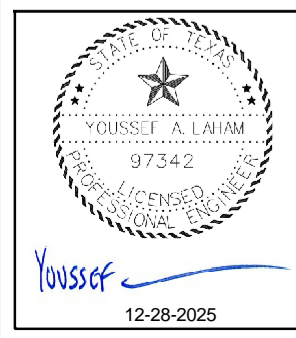


MATCHLINE PAGE 18

Material Summary Table - Pettus St - Page 12

Item	Materials Description	Manufacturer	Design Qty.	Asbuilt Qty.	Stock#
1	PIPE PLASTIC 4" IPS SOR 11 COIL WITH TRACER WIRE		225'		1014020
3	CAP 2" PIPE END WELD		1		1016606
5	ANODE MAGNESIUM PKG 21" 32LB GRADE B				1016921
7	FITTING SHORTSTOP WELDING 3-WAY TEE 2"		1		1018419
8	REDUCER PE PIPE 4"x2" BUTT FUSE		2		1015809
9	TEE PE PIPE 4"x1" BUTT FUSE		1		1016170
13	PIPE PLASTIC 2" IPS SOR 11 COIL WITH TRACER WIRE		107'		1013959
14	PIPE PLASTIC 1" IPS SOR 11 COIL WITH TRACER WIRE		6'		1013957
17	TEE PE PIPE 4" BUTT FUSE		2		1015805
18	TRANSITION FITTING 2" STEEL TO PLASTIC		1		1016105
19	ELBOW PE 90 DEG 2" BUTT FUSE				1015679

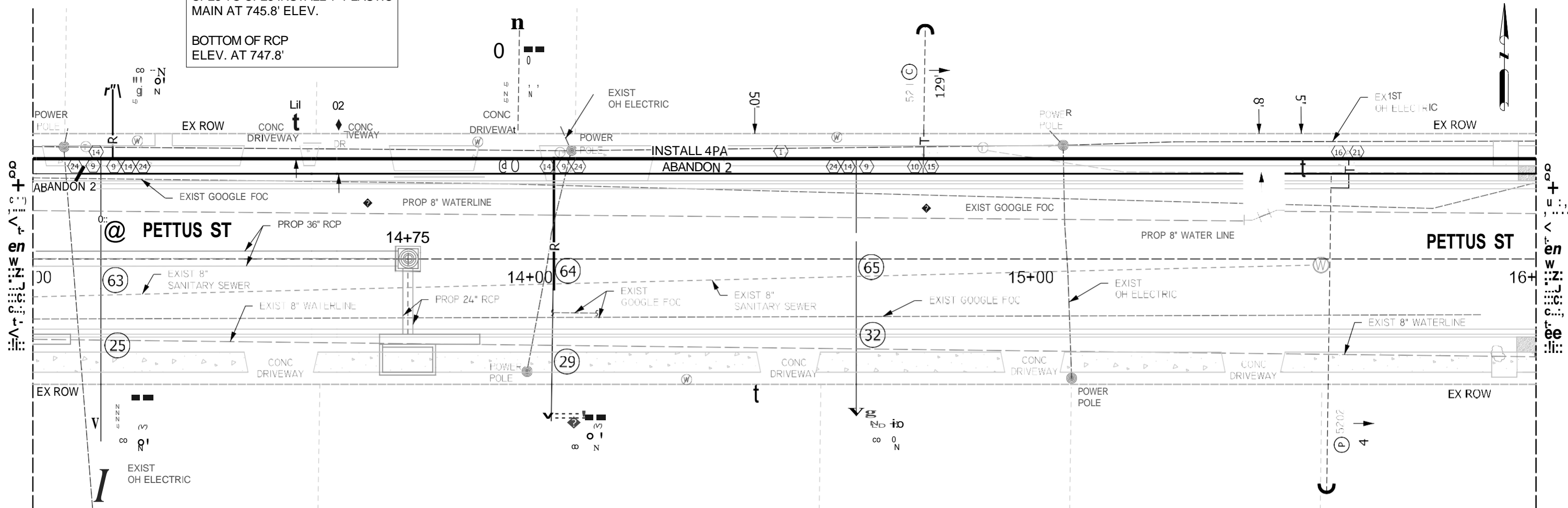
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NO.	DRAWING REVISION	DATE	CHECKED BY:	DATE APPROVED:	DESIGN BY:	PHONE:	JOB TITLE:	JOB NO.
0	Planning Completed	12/28/25	WTF	12/23/2025	OSCARJURIA	713.869.3433	CULEBRA PARK AREA STREETS GAS RELOCATION LAVEN DR, PETTUS ST, BRENDELL ST & RITA AVE PLAN - PETTUS ST STA 10+50 TO STA 13+00	40759309
			APPROVED BY:	DATE APPROVED:	MAP QUADRANTS	PROJECT NO.	CPS ENERGY P.O. BOX 1771 SAN ANTONIO, TX 78296	
			W Tr7-	12/23/2025	13-58 X= 2099193 Y=13711559	G-0272	AG3 AG3 Group, LLC ENGINEERS - SURVEY - CONSTRUCTORS 4800 FREDERICKSBURG RD SUITE 200SL SAN ANTONIO, TX 78232 P:210-208-9400 F:210-208-9401 TBPE #F-21809 TBPLS #10194622	212

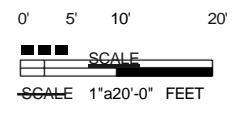
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CONSTRUCTION NOTE:
 CP23 TO CP25 INSTALL 1" PLASTIC
 MAIN AT 745.8' ELEV.
 BOTTOM OF RCP
 ELEV. AT 747.8'



Material Summary Table - Pettus ST - Page 13

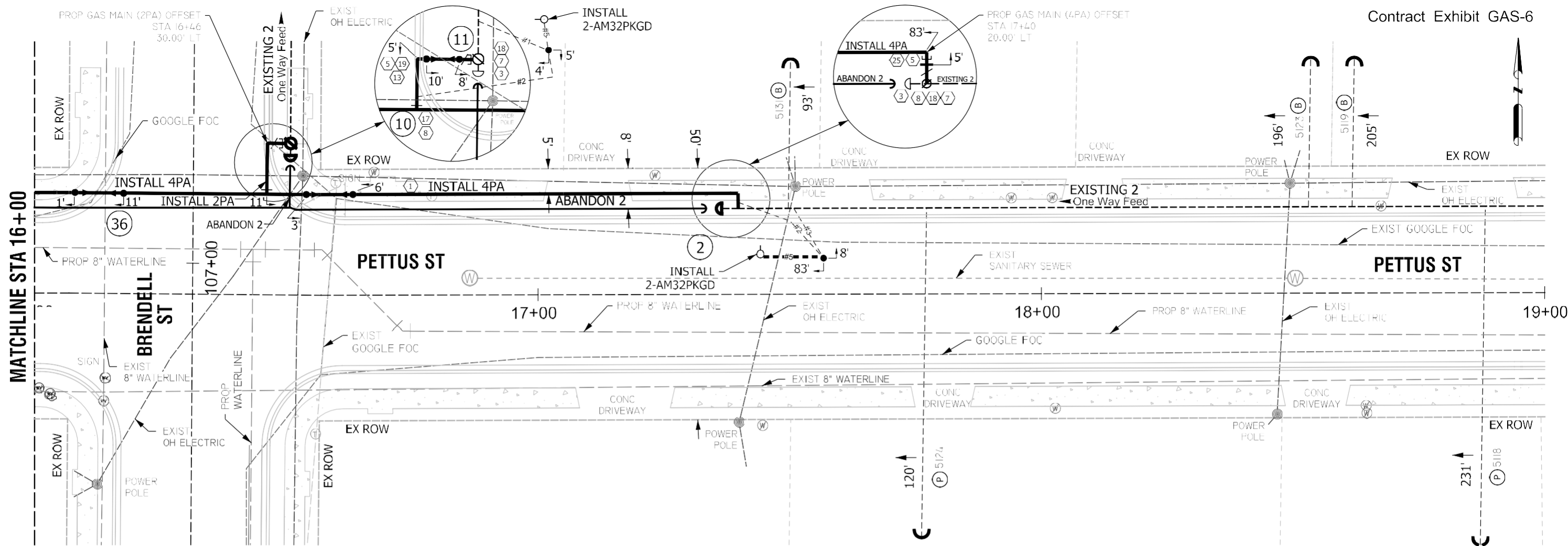
Item	Materials Description	Manufacturer	Design Qty.	Asbuilt Qty.	Stock#
1	PIPE PLASTIC 4" IPS SOR 11 COIL WITH TRACER WIRE		300'		1014020
9	TEE PE PIPE 4"x1" BUTT FUSE		5		1016170
10	TEE PE PIPE 4"x1 1/4" BUTT FUSE				1016174
14	PIPE PLASTIC 1" IPS SOR 11 COIL WITH TRACER WIRE		178'		1013957
15	PIPE PLASTIC 1-1/4" IPS SOR 11 COIL WITH TRACER WIRE		6'		1013958
16	PIPE PLASTIC 1/2" IPS SOR 11 COIL WITH TRACER WIRE		9'		1014021
21	TEE PE PIPE 4"x1/2" BUTT FUSE				1016309
24	RISER GAS ANOOELESS 1x1x36Wx36H		4		1022977



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NO.	DRAWING REVISION	DATE	CHECKED BY:	DATE APPROVED:	DESIGN BY:	PHONE:	JOB TITLE:	JOB NO.
0	Planning Completed	12/28/25	WTF	12/23/2025	OSCAR JURIA	713.869.3433	CULEBRA PARK AREA STREETS GAS RELOCATION LAVEN DR, PETTUS ST, BRENDELL ST & RITA AVE PLAN - PETTUS ST STA 13+00 TO STA 16+00	40759309
			APPROVED BY:	DATE APPROVED:	MAP QUADRANTS	PROJECT NO.	CPS ENERGY P.O. BOX 1771 SAN ANTONIO, TX 78296	
				12/23/2025	13-58 X= 2099446 Y=13711558	G-0272	AG3 AG3 Group, LLC ENGINEERS - SURVEY - CONSTRUCTORS 4800 FREDERICKSBURG RD SUITE 200SL SAN ANTONIO, TX 78232 P:210-208-9400 F:210-208-9401 TBPE #F-21809 TBPLS #10194622	213



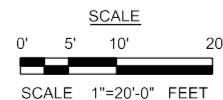
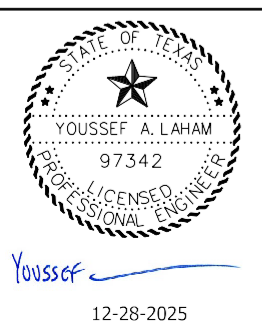


Material Summary Table - Pettus St - Page 14

Item	Materials Description	Manufacturer	Design Qty.	Asbuilt Qty.	Stock #
1	PIPE PLASTIC 4" IPS SDR 11 COIL WITH TRACER WIRE		145'		1014020
3	CAP 2" PIPE END WELD		2		1016606
5	ANODE MAGNESIUM PKG 21" 32LB GRADE B		2		1016921
7	FITTING SHORTSTOP WELDING 3-WAY TEE 2"		2		1018419
8	REDUCER PE PIPE 4"x2" BUTT FUSE		2		1015809
13	PIPE PLASTIC 2" IPS SDR 11 COIL WITH TRACER WIRE		12'		1013959
17	TEE PE PIPE 4" BUTT FUSE		1		1015805
18	TRANSITION FITTING 2" STEEL TO PLASTIC		2		1016105
19	ELBOW PE 90 DEG 2" BUTT FUSE		1		1015679
25	ELBOW PE 90 DEG 4" BUTT FUSE		1		1015800

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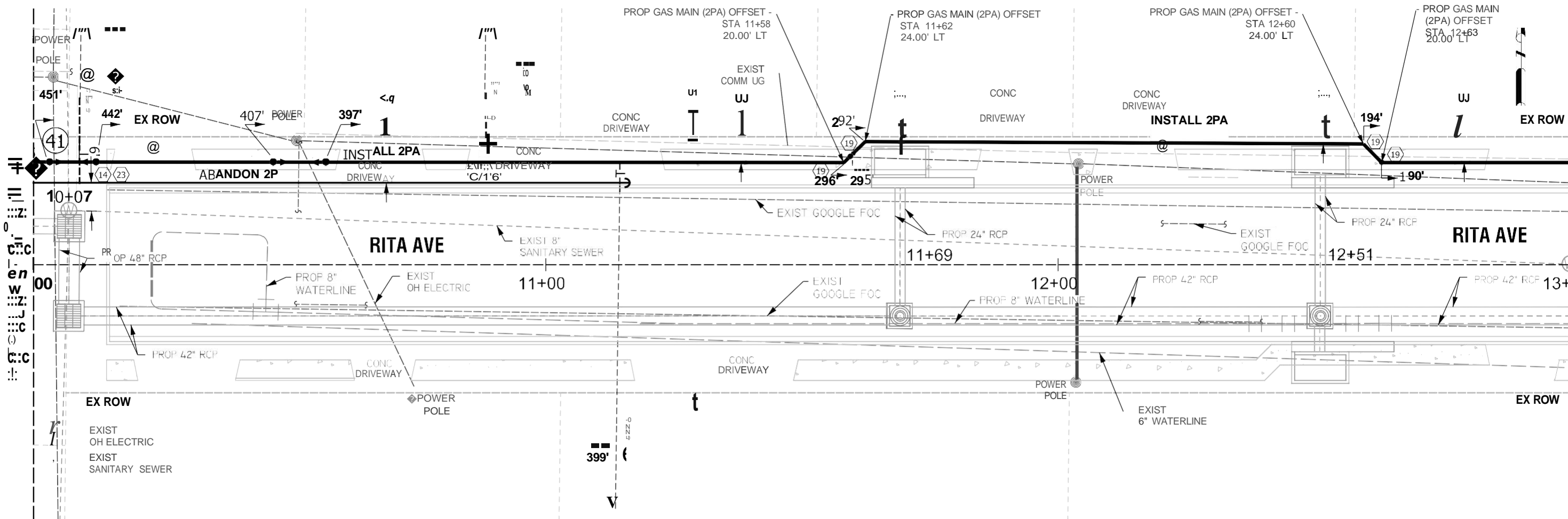
NO.	DRAWING REVISION	DATE
0	Planning Completed	12/28/25

CHECKED BY: WTF	DATE APPROVED: 12/23/2025	DESIGN BY: OSCAR JURIA	PHONE: 713.869.3433
APPROVED BY: <i>William T Fey</i>	DATE APPROVED: 12/23/2025	MAP QUADRANTS 13-58 X= 2099607 Y= 13711561	PROJECT NO. G-0272

JOB TITLE: CULEBRA PARK AREA STREETS GAS RELOCATION LAVEN DR, PETTUS ST, BRENDELL ST & RITA AVE PLAN - PETTUS ST STA 16+00 TO STA 19+00	JOB NO. 40759309
CPS ENERGY P.O. BOX 1771 SAN ANTONIO, TX 78296	AG3 AG3 Group, LLC ENGINEER - SUPPLY - CONSTRUCTOR 4900 FREDERICKSBURG RD SUITE 200SL SAN ANTONIO, TX 78232 P:210-208-9400 F:210-208-9401 TBPE #F-21809 TBPLS #10194622

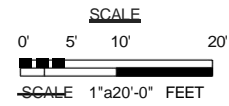
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DATE: 12/22/2025 12:15:24 PM



Material Summary Table - Rita Ave - Page 15

Item	Materials Description	Manufacturer	Design Qty.	Asbuilt Qty.	Stock#
13	PIPE PLASTIC 2" IPS SDR 11 COIL WITH TRACER WIRE		303'		1013959
14	PIPE PLASTIC 1" IPS SDR 11 COIL WITH TRACER WIRE		16'		1016109
19	ELBOW PE 90 DEG 2" BUTT FUSE		4		1015679
23	TEE PE PIPE 2"x1" BUTT FUSE		3		1016109



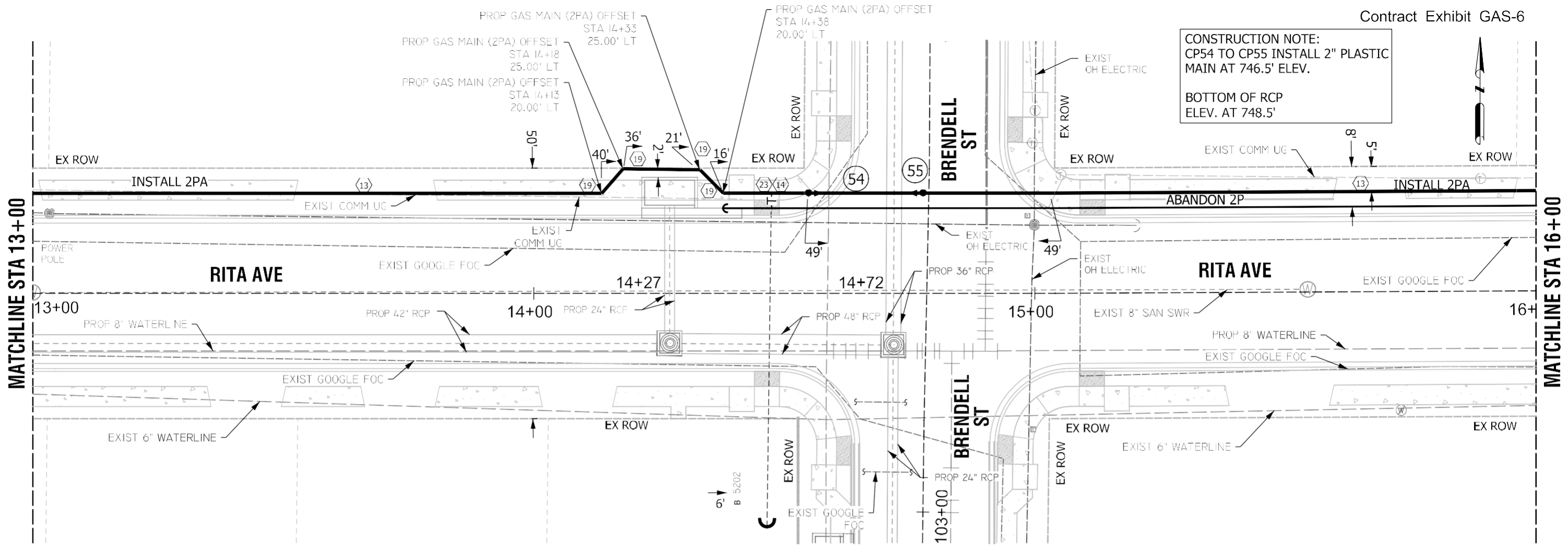
NO.	DRAWING REVISION	DATE
0	Planning Completed	12/28/25

CHECKED BY: **WTF** DATE APPROVED: 12/23/2025
 DESIGN BY: OSCAR JURIA PHONE: 713.869.3433
 APPROVED BY: DATE APPROVED: 12/23/2025
 MAP QUADRANTS: 13-58 X= 2099232 Y=13711210
 PROJECT NO.: G-0272

JOB TITLE: CULEBRA PARK AREA STREETS GAS RELOCATION LAVEN DR, PETTUS ST, BREDELL ST & RITA AVE PLAN - RITA AVE STA 10+00 TO STA 13+00
 JOB NO.: 40759309
CPS ENERGY
 P.O. BOX 1771
 SAN ANTONIO, TX 78296
AG3
 AG3 Group, LLC
 4800 FREDERICKSBURG RD SUITE 200SL
 SAN ANTONIO, TX 78232
 P:210-208-9400 F:210-208-9401
 TBPE #F-21809
 TBPLS #10194622

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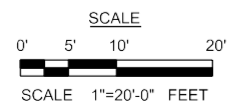
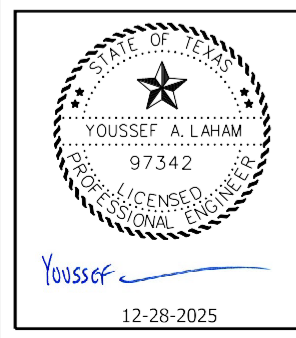
CONSTRUCTION NOTE:
 CP54 TO CP55 INSTALL 2" PLASTIC
 MAIN AT 746.5' ELEV.
 BOTTOM OF RCP
 ELEV. AT 748.5'



Material Summary Table - Rita Ave - Page 16

Item	Materials Description	Manufacturer	Design Qty.	Asbuilt Qty.	Stock #
13	PIPE PLASTIC 2" IPS SDR 11 COIL WITH TRACER WIRE		304'		1013959
14	PIPE PLASTIC 1" IPS SDR 11 COIL WITH TRACER WIRE		4'		1016109
19	ELBOW PE 90 DEG 2" BUTT FUSE		4		1015679
23	TEE PE PIPE 2"x1" BUTT FUSE		1		1016109

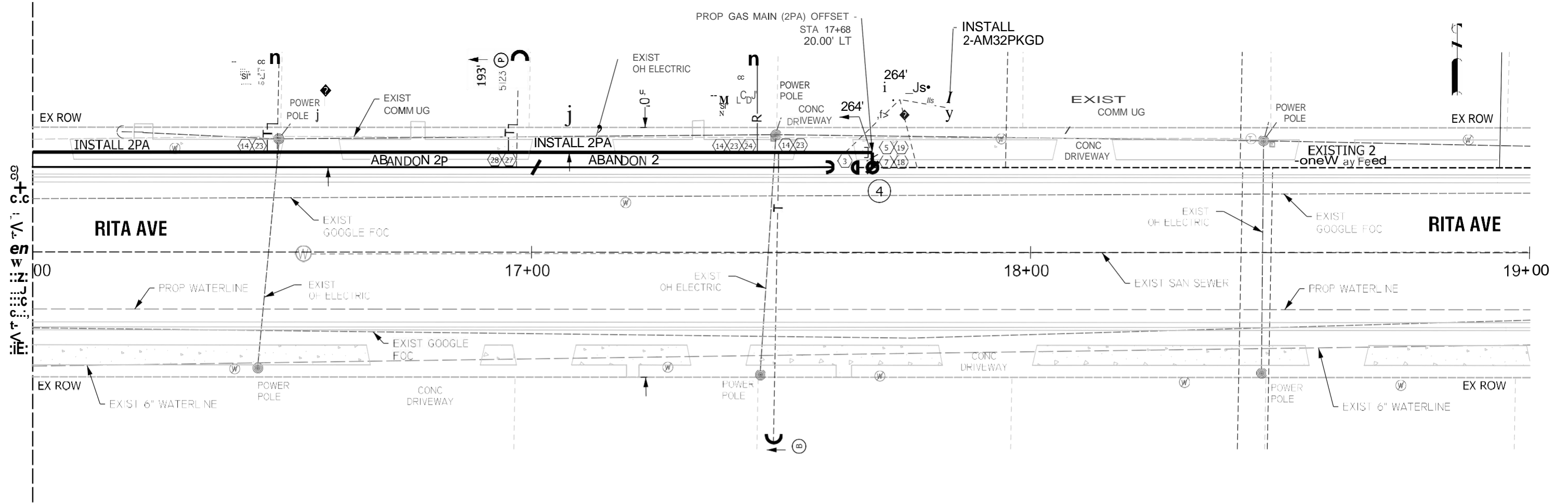
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NO.	DRAWING REVISION	DATE
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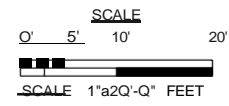
CHECKED BY: WTF	DATE APPROVED: 12/23/2025	DESIGN BY: OSCAR JURIA	PHONE: 713.869.3433
APPROVED BY: <i>William T Fey</i>	DATE APPROVED: 12/23/2025	MAP QUADRANTS: 13-58	PROJECT NO.: G-0272

JOB TITLE: CULEBRA PARK AREA STREETS GAS RELOCATION LAVEN DR, PETTUS ST, BRENDELL ST & RITA AVE PLAN - RITA AVE STA 13+00 TO STA 16+00		JOB NO. 40759309
CPS ENERGY P.O. BOX 1771 SAN ANTONIO, TX 78296	AG3 AG3 Group, LLC ENGINEER - SUPPLY - CONSTRUCTOR 4900 FREDERICKSBURG RD SUITE 200SL SAN ANTONIO, TX 78232 P:210-208-9400 F:210-208-9401 TBPE #F-21809 TBPLS #10194622	Binkley & Barfield, Inc. TxEng F-257 14310 Northbrook Dr. Suite 200 San Antonio, TX 78232 210.502.2175 BinkleyBarfield.com



Material Summary Table - Rita Ave - Page 17

Item	Materials Description	Manufacturer	Design Qty.	Asbuilt Qty.	Stock#
3	CAP 2" PE END WELD		1		1016606
5	ANODE MAGNESIUM PKG 21" 32LB GRADE B				1016921
7	FITTING SHORTSTOP WELDING 3-WAY TEE 2"				1018419
14	PIPE PLASTIC 1" IPS SOR 11 COIL WITH TRACER WIRE		27'		1016170
13	PIPE PLASTIC 2" IPS SOR 11 COIL WITH TRACER WIRE		171'		1013959
18	TRANSITION FITTING 2" STEEL TO PLASTIC				1016105
19	ELBOW PE 90 DEG 2" BUTT FUSE				1015679
23	TEE PE PIPE 2"x1" BUTT FUSE		3		1016109
24	RISER GAS ANODELESS 1x1x36Wx36H				1022977
27	PIPE PLASTIC 1/2" IPS SOR 9.33 COIL		5'		1014021
28	TEE TAPPING 4"x1/2" IPS BUTT FUSE				1016309

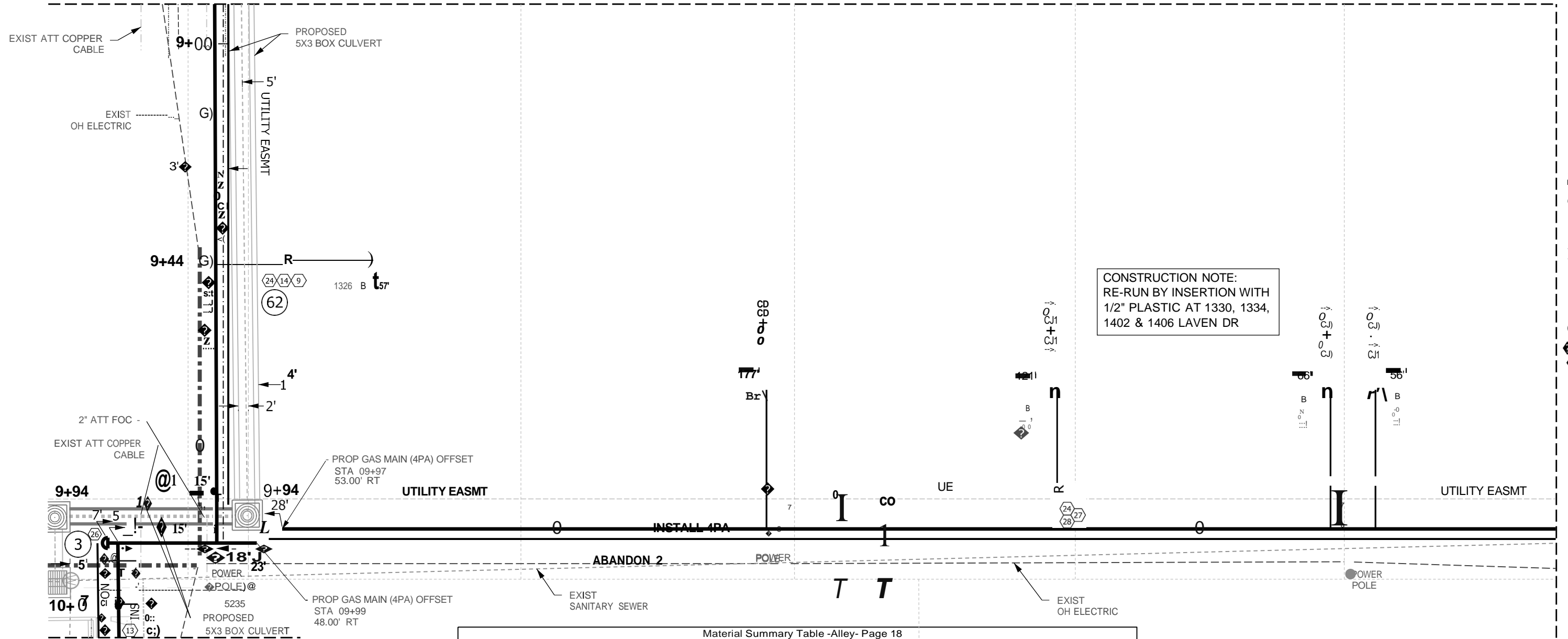


NO.	DRAWING REVISION	DATE
0	Planning Completed	12/28/25

CHECKED BY: WTF	DATE APPROVED: 12/23/2025	DESIGN BY: OSCARJURIA	PHONE: 713.869.3433
APPROVED BY: <i>William T Foy</i>	DATE APPROVED: 12/23/2025	MAP QUADRANTS 13-58 X= 2099860 Y=13711209	PROJECT NO. G-0272

Binkley & Barfield, Inc. TxEng F-257 14310 Northbrook Dr. Suite 200 San Antonio, TX 78232 210.502.2175 BinkleyBarfield.com		JOB NO. 40759309
CULEBRA PARK AREA STREETS GAS RELOCATION LAVEN DR, PETTUS ST, BRENDLELL ST & RITA AVE STAPLAN- RITA AVE 16+00 TO STA 19+00		JOB NO. 40759309
CPS ENERGY P.O. BOX 1771 SAN ANTONIO, TX 78296	AG3 AG3 Group, LLC ENGINEERS - SUPPLY - CONSTRUCTORS 4800 FREDERICKSBURG RD SUITE 200SL SAN ANTONIO, TX 78232 P:210-208-9400 F:210-208-9401 TBPE #F-21809 TBPLS #10194622	

MATCHLINE SEE PAGE 10

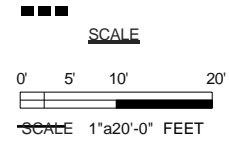


CONSTRUCTION NOTE:
RE-RUN BY INSERTION WITH
1/2" PLASTIC AT 1330, 1334,
1402 & 1406 LAVEN DR

MATCHLINE SEE PAGE 15

Material Summary Table -Alley- Page 18

Item	Materials Description	Manufacturer	Design Qty.	Asbuilt Qty.	Stock#
1	PIPE PLASTIC 4" IPS SOR 11 COIL WITH TRACER WIRE		396'		1014020
8	REDUCER PE PIPE 4"x2" BUTT FUSE				1015809
9	TEE PE PIPE 4"x1" BUTT FUSE		1		1016170
11	ELBOW PE 45 DEG 4" BUTT FUSE		2		1015675
13	PIPE PLASTIC 2" IPS SOR 11 COIL WITH TRACER WIRE		18'		1013959
14	PIPE PLASTIC 1" IPS SOR 11 COIL WITH TRACER WIRE		33'		1013959
17	TEE PE PIPE 4" BUTT FUSE				1015805
24	RISER GAS ANODELESS 1x1x36Wx36H		5		1022977
26	CAP PE PIPE 4" BUTT FUSE		1		1015674
27	PIPE PLASTIC 1/2" IPS SOR 9.33 COIL		112'		1014021
28	TEE TAPPING 4"x1/2" IPS BUTT FUSE		4		1016309



NO.	DRAWING REVISION	DATE
0	Planning Completed	12/28/25

CHECKED BY: **WTF**
DATE APPROVED: **12/23/2025**
APPROVED BY: **W?Trf**
DATE APPROVED: **12/23/2025**

DESIGN BY: **OSCAR JURIA**
PHONE: 713.869.3433
JOB TITLE: **CULEBRA PARK AREA STREETS GAS RELOCATION**
MAP QUADRANTS: 13-58 X=2098987 Y=13711242
PROJECT NO.: **G-0272**

PLAN - EASEMENT
STA 00+00 TO STA 00+00
CPS ENERGY
P.O. BOX 1771
SAN ANTONIO, TX 78296
AG3
AG3 Group, LLC
ENGINEERS + SURVEY + CONSTRUCTION
4800 FREDERICKSBURG RD SUITE 200SL
SAN ANTONIO, TX 78232
P:210-208-9400 F:210-208-9401
TBPE #F-21809
TBPLS #10194622

JOB NO. **40759309**

BinkleyBarfield | **cc**
Binkley & Barfield, Inc.
TxEng F-257
14310 Northbrook Dr.
Suite 200
San Antonio, TX 78232
210.502.2175
BinkleyBarfield.com

NORTH

0 10 20 30 40 50 60 70 80 90 100

F-E J:\AG3\2400000231.001_Culebra Park Area

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Martin M. Gonzales

01.05.2026

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**REQUIREMENTS AND SPECIFICATIONS
FOR CONSTRUCTION OF
NATURAL GAS DISTRIBUTION FACILITIES
ON CIVIC JOINT-BID
PROJECTS**

**CPS ENERGY
EXHIBIT GAS-1**

ADDITIONS TO THE PROJECT BID DOCUMENTS

1. MINIMUM REQUIREMENTS FOR BIDDING ON CPS WORK

A. Contractor used for the gas pipeline work must have performed utility gas pipeline work within the past (3) three years of similar technical scope and magnitude as the services to be performed under this contract. With their bid, Contractor shall provide evidence of qualifications in this regard and of any licenses, permits or registrations possessed that pertain to the services or are required in the specifications. Contractor may contact CPS Energy prior to the letting of this project to determine if their previous experience meets this requirement.

B. The Contractor shall have a program complying with 49 CFR Part 199, "Control of Drug Use in Natural Gas, Liquefied Natural Gas, and Hazardous Liquid Pipeline Operations" and 49 CFR Part 40, "Procedures for Transportation Workplace Drug and Alcohol Testing Programs" to test employees for the presence of prohibited drugs as prescribed and to provide an employee assistance program. The Contractor agrees to provide CPS Energy with an affidavit prior to the date of execution of the Contract which states that Contractor and its employees have complied with all applicable laws, statutes, and regulations pertaining to ensuring a drug free workplace including, but not limited to, the requirements of Part 199 and Part 40. Furthermore, the Contractor agrees to allow CPS Energy Human Resources personnel periodic on-site access to Contractor's records documenting compliance with Part 199 and Part 40. Contractor will provide the name and contact person for the agency or consortium used by the Contractor to comply with this requirement prior to the date of execution of the Contract.

C. The Contractor agrees to provide CPS Energy with an affidavit prior to the date of execution of the contract which states that Contractor and its employees have complied with all applicable laws, statutes, and regulations pertaining to ensuring a drug free workplace including, but not limited to, the requirements of 49 CFR as amended by the Research and Special Programs Administration (RSPA).

D. CPS Energy requires the following to verify Contractor and Sub-Contractor compliance with all applicable laws, statutes and regulations pertaining to the qualification of pipeline personnel including, but not limited to the applicable requirements of 49 CFR Part 192 – Subpart N -“Qualification of Pipeline Personnel” as adopted by the Railroad Commission of Texas (RCC) within the Pipeline Safety Rules.

1. ***A Notarized Affidavit that states the company placing the bid and its sub-contractors are in compliance with 49 CFR 192 and RRC Pipeline Safety Rules pertaining to the qualification of pipeline personnel.***

- 2. A current copy of its Operator Qualification Plan, unless currently on file, and approval of its plan by a CPS Energy Gas Operation's Representative. A copy of CPS Energy Covered Tasks is shown in Exhibit Gas-7 - CPS Energy Covered Tasks Regulated by 49 CFR Part 192.**
- 3. Current listing of employees and qualifications.**

E. The Contractor shall submit a copy of SMWBA Form 101 to CPS Energy prior to date of execution of the contract.

F. Prospective Contractors bidding on the Project shall submit to CPS Energy through the City of San Antonio a properly executed Certificate of Insurance from its insurance agent or carrier of such insurance coverages as required and set forth in the Project Contract Documents prior to award of the contract. Failure to provide proof of insurance will result in City's Contractor not being approved for award of the CPS Energy utility work on the Project.

ADDITIONS TO THE PROJECT CONTRACT DOCUMENTS

1. DEFINITION OF TERMS

Add to the City of San Antonio Article I. Contract Definitions: 49. CPS – CPS Energy Board, a municipal agency of the City of San Antonio.

2. LAWS TO BE OBSERVED

The Contractor shall make himself familiar with and at all times shall observe and comply with all Federal, State, and local laws, ordinances, and regulations which in any manner affect the conduct of the work and shall indemnify and save harmless CPS Energy and its representatives against any claim arising from the violation of any such law, ordinance, or regulation, whether by himself or by his employees.

3. PERMITS, LICENSES AND TAXES

The Contractor and his subcontractors shall procure all permits and licenses, pay all charges, fees, and taxes, and give all notices necessary and incident to the due and lawful prosecution of the work and upon request by the City Engineer give evidence of the same.

4. RESPONSIBILITY FOR DAMAGE CLAIMS

The Contractor agrees to indemnify and save harmless CPS Energy, its agents, and employees from all suits, action or claims and from all liability and damages for any and all injuries or damages sustained by any person or property of any character in consequence of any neglect in the performance of the contract by the Contractor and from any claims or amounts arising or recovered under the “Workers’ Compensation Laws”; Chapter 101, Texas Civil Practice and Remedies Code (Texas Tort Claims Act), or any other laws. He shall further so indemnify and be responsible for all damages or injury to property of any character occurring during the prosecution of the work to the extent resulting in whole or in part from any act, omission, neglect or misconduct on his part in the manner or method of executing the work; or from failure to properly execute the work; or from defective work or materials purchased by Contractor, except those claims for damages caused solely by the negligence of CPS Energy. Contractor shall not be released from these responsibilities until all claims have been settled and suitable evidence to the effect furnished to CPS Energy. The indemnification provided herein shall survive the termination of this Contract.

5. CONTRACTOR REQUIREMENT

A. The Contractor shall abide by the regulations promulgated in 49 Code of Federal Regulations Part 40 and 49 Code of Federal Regulations Part 199 and any modifications thereto listed below in this Article. CPS Energy will require such compliance to be a part of this Contract and will immediately terminate this Contract if Contractor is found to not be in

compliance with said regulations. Contractor shall indemnify CPS Energy against any fines, penalties, damages, costs or attorney fees based upon any violation by Contractor of the same.

B. The Contractor shall abide by the regulations promulgated by the Federal Highway Administration (FHWA) which states that contractors subject to FHWA mandates shall be in compliance with those parts of 49 Code of Federal Regulations (CFR) which relate to the illegal use of alcohol and controlled substances.

6. PROSECUTION AND PROGRESS

All workers or subcontractors employed by the Contractor shall have such skill and experience as will enable them to properly perform the duties assigned them.

7. WARRANTY

The Contractor shall warrant all components, materials and workmanship for a period of at the least one (1) year from the date of final completion of gas pipeline work by Contractor. The Contractor warrants the title and guarantees the equipment, materials and workmanship furnished under this Contract to be specified and to be free from defects in design, workmanship and materials. If within the warranty period the work fails to meet the provisions of this guarantee, CPS Energy shall notify the Contractor thereof immediately and the Contractor shall promptly correct any defects, including nonconformance with the Contract Documents, by adjustment, repair or replacement F.O.B. the Project site of all defective work at its sole costs.

8. INSURANCE

The Contractor agrees to keep in full force during the performance of services hereunder insurance sufficient to fully protect CPS Energy from all damages, claims, suits and/or judgements, caused or claimed to have been caused by or in connection with the performance or failure to perform any services undertaken by Contractor, his subcontractor, or their agents, or employees.

9. COORDINATION

All questions about the gas construction shall be addressed to ~~Brian Carter, CPS Energy~~ ~~Construction, at (210) 353-4270.~~ Design and engineering questions may be addressed to the CPS Energy Gas Engineering Division, Civic Improvements Section, at (210) 353-2430.

**CPS ENERGY
EXHIBIT GAS-2
SPECIFICATIONS FOR CONSTRUCTION OF
NATURAL GAS DISTRIBUTION FACILITIES**

1. GENERAL

The work to be done includes mobilization and clearing right-of-way where necessary; receiving, transporting and unloading all materials from a designated CPS Energy center; stringing pipe, welding steel pipe and pipe fittings, and fusing high density polyethylene gas pipe and pipe fittings; excavating trenches and ditching for the burial of the gas piping facilities; installation of gas piping into the excavation along with required appurtenances such as anodes, anodes lead wires, and tracer wires; backfilling of ditches, repair of damage to any street, road, highway, sidewalk, drainage structures, driveways, signs, other utilities, fencing, or other existing structures; clean-up of right-of-way and any other item enumerated in these specifications.

The work shall conform with Title 49 of the Code of Federal Regulations, Part 192, "Transportation of Natural and Other Gas by Pipeline: Minimum Federal Safety Standards" and to the CPS Energy design standards attached to this document as Exhibits GAS-3 and GAS-4, as applicable.

2. ROUTE OF THE GAS LINE

Construction of the gas line will, in general, follow the route shown on Exhibit GAS-6 (CPS Energy Job Sketch). Gas services to be installed, relocated or adjusted are also indicated on Exhibit GAS-6, as applicable.

CPS Energy reserves the right to make any changes in the routing which may be deemed necessary and such changes shall in no manner alter the terms or compensations payable under this contract except as they are affected by linear measurements of work completed.

All gas lines shall be installed in a separate trench apart from any other utility lines unless joint trenching with other utilities is specifically required on the CPS Energy Job Sketch or prior written approval is obtained from the CPS Energy representative allowing joint trench construction.

3. RIGHT-OF-WAY

The CPS Energy Job Sketch will indicate the planned route of the gas lines to be installed. The construction plans will show as much information as can be reasonably obtained by CPS Energy regarding the location of other existing buried utilities and structures in/or crossing the rights-of-way, but CPS Energy assumes no responsibility for the correctness or completeness of this information. Contractor will be held responsible for locating all such utilities and structures and for avoiding damage to them and for making repairs or paying for any damage thereto. CPS Energy will provide and furnish all necessary right-of-way, federal, state, county and city roadway crossing permits, which shall be necessary for the construction.

Most of CPS Energy's gas facilities are constructed within public rights-of-way; however, CPS Energy may acquire easements on private property for construction of gas distribution facilities when public rights-of-way are not available or unusable. When gas facilities are planned for construction within easements on private property, the exact boundaries of such easements will be shown on the CPS Energy Job Sketch, and CPS Energy will survey and stake the easement boundaries in the field. Contractor shall preserve such field staking of easement boundaries. If the Contractor's construction activities disturb the field survey stakes, then the Contractor shall be responsible for resurveying the easement boundary when necessary. Contractor shall comply with all reasonable requirements of landowners, tenants or lessees which are designed to reduce interference of construction. It will be the Contractor's responsibility to limit traffic on the right-of-way to only such vehicles as may be necessary for construction. Contractor will be held liable for damage claims arising from grass and brush fires that may be set during his operations.

In addition, the term "right-of-way" shall also apply to those portions of public streets, roads or highways in which sections of the utility lines will be constructed. The Contractor working in any public right-of-way is responsible for the safe movement of traffic (pedestrian and/or vehicular) through the construction area. The Contractor shall meet all requirements for barricading and traffic control as specified in the Texas Manual on Uniform Traffic Control Devices (TMUTCD).

4. MATERIALS TO BE FURNISHED BY CPS

CPS Energy agrees to furnish all steel pipe, polyethylene (plastic) gas pipe, casing pipe, valves, valve boxes, stop cocks, service risers, couplings, casing insulators, casing end seals, steel pipe insulating joints, miscellaneous pipe fittings, anodes, cathodic protection test lead boxes, pipeline warning signs, gas pipe tracer wire, tracer wire clamps, pipe coating primer, and pipe coating tape and/or shrink sleeves necessary to complete the job except when these materials are to be specifically provided by the Contractor in accordance with written requirements of the Compensation Schedule (Exhibit GAS-5) or CPS Energy Job Sketch (Exhibit GAS-6).

5. CLEARING, GRADING AND PREPARATION OF RIGHT-OF-WAY

The Contractor shall clear and grade right-of-way sufficiently for his need and for hauling and stringing pipe and other material but not to exceed the width of right-of-way. Contractor shall be responsible for any damages outside of right-of-way limits. Contractor shall perform all necessary grading and compaction at road, stream, and gully crossings and at other locations where needed to permit the passage of equipment, cars, and trucks. Before any brush or timber is cut to clear right-of-way, approval from CPS Energy in writing must be obtained. All brush and timber cut to clear right-of-way must be removed from the right-of-way and disposed of to the satisfaction of the CPS Energy representative. Any trimming of an oak tree will require the contractor to follow **oak wilt suppression procedures**:

- Avoid pruning or wounding any oaks unless absolutely necessary.
- If pruning is required, request assistance as soon as possible from the CPS Energy Tree & ROW Maintenance Section or one of the Inspectors listed below.

- Any pruning wounds or damage caused by equipment (trucks, diggers, trenchers, backhoes, etc.) must be painted immediately, within a minimum of one hour. This includes any cracked or ripped limbs and wounds to trunks, limbs or root flares which may have been damaged by passing equipment.
- Within a known infection center, all tools must be disinfected with a 10% clorox and water solution or Lysol spray before using these tools on any other oak tree.

Requests for Assistance From the Tree & ROW Maintenance Section

When assistance is required, please provide as much notice as possible or call as soon as damage occurs. Contact names and numbers are listed below:

	Office	Radio#	Cellular	Pager#
Section Office	353-3593	2400		
James F. Koenig	353-3798	2401	844-5457	1336
Terri Minnia	353-5218	2405	394-3580	2241
Margie Regalado	353-5243	2403	394-3579	2428
Clyde Stroud	353-5218	2404	394-3578	2301
Ed Scott	353-5243	2402	275-6935	2852

The Contractor shall promptly repair all bridges, private roads, fences, buildings or other property damaged by him in the progress of the work. Permission must be secured from owner before private roads or bridges are used or blocked.

The Contractor will be notified prior to construction of all known requirements or restrictions of right-of-way by CPS Energy.

The Contractor will be responsible for all preparation of right-of-way. This will include construction operations by removing and disposing of all obstructions from the right-of-way and/or gas easement where removal of such obstructions is not otherwise provided for in the plans and specifications.

Such obstructions shall be considered to include, but not be limited to, remains of houses not completely removed by others, foundations, floor slabs, concrete, brick, lumber, plaster, cisterns, septic tanks, basements, abandoned utility pipes or conduits, equipment or other foundations, fences, retaining walls, outhouses, shacks, and all other debris, as well as buried concrete slabs, curbs, driveways and sidewalks.

This item shall also include the removal of trees, stumps, bushes, shrubs, brush, roots, vegetation, logs, rubbish, paved parking areas, miscellaneous stone, brick, drainage structures, manholes, inlets, abandoned railroad tracks, scrap iron and all debris, whether above or below ground, except live utility facilities.

It is the intent of this specification to provide for the removal and disposal of all obstructions to the new construction, together with other objectionable materials, not specifically provided elsewhere by the plans and specifications.

Unless otherwise shown on the plans, all fences along the right-of-way and/or easement which are damaged or temporarily removed by the Contractor shall be replaced by the Contractor to an equal or better condition at no additional cost to CPS Energy.

Unless otherwise indicated on the plans, all underground obstructions shall be removed to in areas to be excavated to 2 feet below the lowest elevation of the excavation.

Holes remaining after removal of all obstructions, objectionable material, vegetation, etc., shall be backfilled and tamped as directed by the inspector, and the entire area shall be bladed to prevent ponding of water and to provide drainage.

All asphaltic material shall be deposited of or recycled at a facility authorized to accept the asphalt for such purposes.

If the contractor encounters hazardous substances, industrial waste, other environmental pollutants, underground storage tanks, or conditions conducive to environmental damage, Contractor shall immediately stop work in the area affected and report the condition to the Owner's representative in writing. Contractor shall not be responsible for or required to conduct any investigation, site monitoring, containment, cleanup, removal, restoration or other remedial work of any kind or nature (the "remedial work") under any applicable level, state or federal law, regulation or ordinance, or any judicial order. If the contractor agrees in writing to commence and/or prosecute some or all of the remedial work, all costs and expenses, to include any extension of the contract time, of such remedial work shall be paid by Owner to Contractor as additional compensation.

6. UNLOADING, HAULING, AND STRINGING MATERIALS

The Contractor shall unload from trucks and string on the right-of-way, as needed, all gas pipe and other materials in such manner as to prevent damage to same. Pipe shall be unloaded with proper equipment, and not dropped from trucks.

When materials in storage are issued to the Contractor, such materials shall become the responsibility of the Contractor, and adequate methods of inventory and material transfer will be set up by the Contractor. The Contractor and CPS Energy jointly shall inspect materials, which have been stockpiled by CPS Energy prior to hauling. After this inspection, the Contractor shall pay CPS Energy delivered cost of any materials lost or damaged beyond use during the construction operation.

Under no circumstances shall pipe be strung in advance of right-of-way clearing operations.

Stringing of pipe on right-of-way shall be done in such a manner as to cause minimum interference with the normal use of driveways, streets, roads, highways, and land crossed. The Contractor shall prevent entrance of dirt or debris into pipe during stringing.

7. LOCATING EXISTING CPS GAS FACILITIES

The Contractor shall be required to locate all existing gas facilities as needed for the construction and installation of new gas facilities. Upon request by the Contractor, the

CPS Energy inspector will provide copies of the appropriate gas maps to facilitate locating activities for the existing gas facilities at the job site, however; CPS Energy does not guarantee the accuracy of such gas facilities map information. The Contractor shall use conventional pipe locating equipment and techniques in conjunction with information from the gas facilities maps to determine the actual location of existing gas facilities. The Contractor shall be solely liable for any damages to existing gas facilities and any damages to other infrastructure such as the street, drainage structures or other utilities, that are incurred by the Contractor.

8. TRENCHING (CONVENTIONAL OPEN EXCAVATION)

A. **Equipment and General Methods** - Contractor shall use such equipment and methods that may be required to excavate the trench or ditch along the route specified on the CPS Energy Job Sketch, regardless of the type of soil or rock encountered and regardless of the depth of excavation necessary. Contractor shall furnish all equipment, materials and supplies that may be necessary for the completion and maintenance of the trench or ditch, including water control, shoring, coffer dams and sheet piling.

B. **Survey Stakes** - Contractor shall carefully preserve all survey stakes set by CPS Energy, CPS Energy representatives, or consulting engineers and shall be liable for any extra expense due to Contractor's failure to maintain such stakes.

C. **Trench Specifications** - The trench or ditch shall have sufficient width and be of such depth to allow installation of piping and valves at depths specified on the CPS Energy Job Sketch and/or the CPS Energy Design Standards. When surfaced streets are cut, the paving shall be cut in neat lines defining the width of the trench to be excavated. The cut shall extend entirely through the asphaltic surfacing and shall break the base material to a sufficient depth to assure the removal of the surfacing and base without breaking beyond the lines of the trench. Concrete saws, pneumatic paving chisels, or mechanically operated drop blades may be used for asphalt surface cutting as approved by the governmental authority exercising jurisdiction. A concrete saw must be used to cut concrete driveways, streets, or other concrete surfaces.

D. **Blasting** - No blasting will be permitted by CPS Energy.

E. **Hand Ditch Requirement** - In all cases where shrubbery, trees, or valuable growing timber is encountered in the right-of-way, and in any location where, in the opinion of the CPS Energy representative, the use of ditching equipment may result in unnecessary damage or injury to property crossed by the right-of-way, CPS Energy may require the Contractor to excavate the trench or ditch by hand or other approved method.

F. **Temporary Bridges** - When the trench or ditch is excavated where it is desirable for a property owner, tenant or other pedestrians to have a passageway across the excavation, the Contractor shall provide safe, temporary bridges or provide other safe means of crossing the ditch.

No streets or driveways shall be blocked at night, except with owner's permission, and any street or driveway opened shall be provided with a strong temporary bridge to allow

traffic to move safely. Open trenches and test holes shall be properly marked by means of barricades and warning lights.

G. Additional Depth of Trench - Where trenching across or adjacent to, or within the right-of-way of roads or highways, railroads, drainage ditches, creeks, ravines, and other water courses and also at points where the contour of the earth may require extra depth, Contractor shall excavate to such additional depth as may be necessary to meet the requirements of CPS Energy and any public or private authority having jurisdiction over same.

H. Dust Suppression - Whenever trenching activities create significant amounts of dust or other undesirable emissions into the atmosphere, then the Contractor may be required, at the sole discretion of the CPS Energy inspector, to take necessary action to reduce such emissions.

I. Trench Excavation Safety - The Contractor must comply with 29 CFR Part 1926, Occupational Safety and Health Standards; Subpart P - Excavations. Contractor and/or Contractor's independently retained employee or safety consultant, if any, shall review the construction plans and any available geotechnical information and the anticipated installation sites within the project work area in order to develop the Contractor's trench excavation safety plan and procedures. The plans and procedures shall, at a minimum, comply with OSHA's standards for trench excavations. Specifically, the Contractor and/or the Contractor's independently retained employee or safety consultant shall develop and implement a trench safety program in accordance with OSHA's standards governing the presence and activities of individuals working in and around trench excavation.

9. TRENCHLESS CONSTRUCTION METHODS

The use of guided or directional boring equipment to install new gas distribution facilities is acceptable to CPS Energy provided that the Contractor demonstrates to the satisfaction of the CPS Energy representative that such equipment is capable of installing the gas pipe along a controlled and relatively constant horizontal and vertical alignment for the specific soil conditions that are encountered at each job site. Special provisions must be made to insure that the gas pipe is not damaged as it is pulled or otherwise inserted into the bored hole. The bored hole must be at least one nominal pipe size larger than the gas pipe that is to be installed (i.e. a 4-inch gas pipe requires at least a 6-inch bored hole). When the bored hole is known to have significant deflections, the bored hole must then be at least two nominal pipe sizes larger than the gas pipe.

When such equipment is used to install polyethylene gas pipe, a fusible link shall be used between the pull head and the gas pipe at all times to prevent damage to the gas pipe during the pull-back operation. The fusible link shall be at least 2 feet in length and it shall be a section of CPS Energy polyethylene pipe that is one nominal pipe size smaller than the gas main being installed. The CPS Energy representative shall inspect the fusible link and the leading edge of the installed gas pipe for any significant gouges or scrapes in the outside wall of the pipe or excessive change in length of the fusible link. If such damages to the fusible link or pipe are found to exist, then the Contractor shall remove and replace all of the damaged pipe at the

Contractor's expense, and the Contractor shall reimburse CPS Energy for the cost of the damaged pipe (including CPS Energy inventory and handling expenses).

When such equipment is used to install steel gas pipe, the CPS Energy representative shall inspect the installed gas pipe for any significant gouges or scrapes in the protective coating on the outside wall of the steel pipe. If such damages to the coating are found to exist, then the Contractor shall repair all of the damaged coating at the Contractor's sole expense.

Whenever gas service lines are planned for installation along a section of gas main that is being installed with guided or directional boring equipment, the Contractor shall excavate at least one service tap location prior to pulling the gas main into the bored hole. The purpose of this excavation is to provide the CPS Energy representative with an intermediate inspection hole where the gas pipe can be inspected during the pipe insertion process. Preferably, the intermediate inspection hole shall be located near the middle of the directionally bored section. If several gas service connections are planned along the insertion route, then the CPS Energy representative shall select the location of the service tap that the Contractor must excavate for the intermediate inspection hole before the gas pipe insertion process.

Gas mains and services that are installed by guided or directional boring equipment shall not be routinely installed at depths greater than seven (7) feet unless one of the following conditions apply:

- 1) The CPS Energy Job Sketch (Exhibit Gas - 6) specifically requires installation depths in excess of seven (7) feet.
- 2) Installation depths in excess of seven (7) feet are the shallowest depths necessary to achieve acceptable clearance between the gas pipe and another buried utility or structure while maintaining the minimum burial depth requirements for the gas pipe.
- 3) The CPS Energy representative approves such installations even though conditions described in Items 1) and 2) above are not applicable.

When guided or directional boring equipment is used to install gas distribution facilities special provisions (if any) in the Compensation Schedule (Exhibit Gas-5) for additional compensation due to extra depth of cover shall not apply.

The method of gas service replacement by Insertion involves sliding a new polyethylene service pipe of smaller diameter into the existing steel service pipe. This is an acceptable method of installation provided that the ends of the existing steel pipe are reamed and fitted with bushings for the pipe to be inserted without damage, and a shrink sleeve is applied to keep components in place and prevent damage thereafter. In order to reduce stress on the service line being inserted from the main, the horizontal distance between the end point of the new service alignment and the point of insertion should be, at least, twice the perpendicular distance between the lines (See Insertion Detail, page 19 of 20, exhibit Gas-3). Tracer wires will be inserted through the existing service along with the new pipe. An electrical continuity test will be conducted on each installed tracer wire to verify that the tracer wire has not been "shorted" against the existing steel service during the installation procedure.

10. STORM WATER POLLUTION PREVENTION PLAN

The gas utility construction work shall be performed in accordance with the City of San Antonio Storm Water Pollution Prevention Plan (SWPPP).

11. PROTECTION OF GAS PIPE ENDS

During the course of construction, diligent care shall be exercised to keep the gas pipelines clean. At the end of each day's work and at the other times that the ends of the installed pipe are left unattended, the pipe ends shall be securely closed to prevent the entrance of water, animals, trash or any other obstructions, and shall not be opened until work is resumed.

If there is reasonable cause to believe that water, trash or other obstruction is in a portion of the lines, the Contractor shall take whatever steps are necessary to assure CPS Energy that there is no water, trash or other obstruction in the line or to remove the water or other foreign matter if it is in the lines. Any and all work required to assure CPS Energy that the gas pipes are clear of debris and other such matter or to remove such obstructions shall be at the Contractor's expense.

12. WELDING

Welding shall be in accordance with API Standard 1104, 17th Edition, dated September, 1994.

Welds shall be made the "shielded metal-arc" process. All equipment and welding rods will be furnished by the Contractor. Brand of welding rods proposed to be used by the Contractor shall be approved by CPS Energy prior to use.

Where determined by the CPS Energy representative to be necessary, back-welding or inside-welding of all tube turns, ells, etc., in the pipe lines shall be required by the Contractor as part of the work covered by the Contract. Back-welding shall be performed at the sole expense of the Contractor.

All welds shall be made with not less than three (3) beads. The second or "Hot Pass Bead", should be run on the full circumference of the pipe as soon as practical. The intent of the above is that the Hot Pass or second bead shall be run before the Stringer Bead has cooled.

Prior to being permitted to weld on the line, each welder shall qualify in accordance with Section 3.0 of API Standard 1104 referred to previously and shall pass the tests listed in paragraph 3.4 of the API Standard. The Contractor will conduct, or make arrangements for, and stand the expense of the qualification tests of the welders. The qualifying tests will be conducted in the presence of the CPS Energy representative.

Each welder will be assigned a specific number and it shall be his duty to personally affix such number in crayon on each weld for future identification. Steel die stamping shall not be used.

CPS Energy rights of welding inspection shall be as given in Section 5.1 of API Standard 1104. Unless otherwise directed, the Contractor will test all welds with soapsuds while subjected to an internal air pressure of 90 psig prior to field coating the joints.

Pin holes, leaks, cold laps, rivers, undercutting or any defects whatsoever occurring in any weld shall, at the discretion of the CPS Energy representative, be repaired by cutting out the entire weld and completely rewelding at no additional expense to CPS Energy. Whenever it thus becomes necessary to remove a weld from the completed line, replacement shall be made, at the sole expense of the Contractor, by welding into the line a pup joint having a minimum length of ten (10) feet.

13. RADIOGRAPHIC INSPECTION

This Section applies when radiographic inspection is specified in the contract documents.

A. Standards and Codes - The latest available edition of the following referenced documents shall be applied when required:

1. Department of Transportation, Title 49, Part 192 - "Transportation of Natural and Other Gas by Pipeline: Minimum Federal Safety Standards."
2. Recommended Practice No. SNT-TC-1A, Supplement A - "Radiographic Testing Method."
3. ANSI B31.8, "Gas Transmission and Distribution Piping Systems."
4. ASME Code Section V, "Nondestructive Examination."
5. United States Nuclear Regulatory Commission, Title 10, Chapter 1, CFR - Energy and other federal, state and local regulations for protection against radiation hazards.

B. Radiographic Procedure - All radiographic inspections shall be performed in accordance with written procedures per Section 8.2 of API Standard 1104. Contractor shall provide a copy of the written procedure to the CPS Energy representative who shall determine the acceptance of the procedure.

C. Personnel Qualifications - Radiographic certification shall be the result of a qualification and certification program that incorporates the requirements of Recommended Practice SNT-TC-1A, Supplement A in accordance with Section 8.7 of API Standard 1104.

D. Equipment and Material - Contractor shall furnish all equipment and materials necessary for the performance of the radiographic inspection. Such materials and equipment include all film and supplies for the processing, film identification, recording, filing and storage of same. Also, Contractor shall provide all barriers, warning systems, film badges, documentation and records as is necessary for the protection and personnel monitoring of every person near a radiation source.

E. Production Radiography Procedures - Contractor will notify the CPS Energy representative if any welds fail to meet the specification. All repaired welds or welded joints, which have been completely replaced, shall be radiographed.

F. Film Identification Procedure - Film identification shall be in accordance with Section 8.6 of API Standard 1104. The exact method of identification will be approved by the CPS Energy representative prior to the start of radiographic inspection.

G. Radiographic Reports and File - Contractor shall be responsible for furnishing the CPS Energy representative with a report for each calendar day the unit is on the project. All radiographs made by Contractor shall be delivered to the CPS Energy representative and shall become the property of CPS Energy.

14. PRESSURE TESTING

A. General - The Contractor shall demonstrate to the satisfaction of the CPS Energy representative, by performing a pressure test, that the mains and/or services installed do not leak and that they will operate safely at the desired maximum allowable operating pressure. Pressure tests are performed to verify satisfactory workmanship and the strength of materials. To the extent practical, the test shall be conducted to the entire pipeline so as to minimize the number of untested tie-in connections. All joints used to tie-in a test segment of pipeline after the test shall be soap bubble tested at not less than its operating pressure. The Contractor shall be responsible for locating and repairing any leaks or failures, which are revealed by the test.

The Contractor shall furnish all supervision, labor, materials and equipment to perform the pressure test required, including but not limited to, pumps, compressors, pigs, test instrumentation and water. Pressure test specifications will be indicated on the CPS Energy Job Sketch (Exhibit GAS-6). The specifications will indicate the minimum and maximum test pressure, test fluid and test duration, as appropriate. The Contractor shall conduct the test in accordance with the applicable requirements of Title 49 CFR 192 and shall take all necessary safety precautions to protect construction personnel and the general public during the course of the test. The Contractor shall be responsible for obtaining all permits necessary to conduct the test except for the Railroad Commission of Texas test water discharge permit that is required for hydrostatic pressure tests.

B. Standard Air Test - A standard air test will generally be specified for gas mains and services to be operated at pressures of 60 psig or less. This test will be indicated on the CPS Energy Job Sketch without a test duration period. The minimum test pressure shall be 90 psig and shall not exceed 120 psig. The test duration shall be a time sufficient to insure discovery of all potentially hazardous leaks. At the minimum, each weld, butt fusion and any other fitting and connection shall be soap bubble tested at the specified test pressure. The test pressure shall be measured with a dial type gauge and shall be monitored during the course of the test to detect leakage. Upon completion of the test(s), the Contractor shall sign and date, in the appropriate location, the "as built" job sketch to indicate successful completion of the test. Pending acceptance by the CPS Energy representative, the CPS Energy representative shall also sign the "as built" job sketch at the appropriate location.

C. High Pressure Test - When the CPS Energy Job Sketch specifies a test pressure greater than 90 psig or if a specific test duration period is specified, then the following requirements for a High Pressure Test shall also apply.

Prior to initiating any work required for a High Pressure Test, the Contractor must hold a pre-test meeting with the CPS Energy representative and a CPS Energy engineer from the Gas Engineering Division. At this meeting, the Contractor will be required to discuss all aspects of plans for conducting the High Pressure Test. The key points of discussion for hydrostatic pressure tests will include the following: 1) optimum direction and injection rate for filling the pipe section with water while minimizing air entrapment; 2) optimum direction and discharge location for safely and completely draining the pipe section; 3) the type, quantity and condition of pipeline pigs; 4) installation and use of temporary pig launchers and/or receivers; 5) capacities of water pumping equipment; 6) pressurization procedures; 7) written test documentation; 8) limitations on refilling and/or discharging test water during the pressure test without invalidating the test and causing the test to be restarted; 9) test water stabilization period after filling the pipe section; 10) appropriate procedure for dewatering the pipe section to minimize the amount of water that remains in the pipe; 11) any other critical aspects of the High Pressure Test.

The test medium may be either air or water and will be specified on the CPS Energy Job Sketch. A hydrostatic test shall be conducted in general conformance with API Recommended Practice 1110. Air tests shall also be conducted in conformance with API RP 1110 with regard to safety and instrumentation.

All filling and pressurization procedures are subject to the approval of the CPS Energy representative. When a hydrostatic test is to be performed, the Contractor shall fill the pipeline in such a manner that no air is entrapped, making use of pipeline pigs as necessary. The Contractor shall be required to furnish all pipeline pigging equipment, including appropriate styles and types of pipeline pigs and temporary pig traps and launchers. The CPS Energy representative must inspect all pigging equipment, and such equipment must be acceptable to the CPS Energy representative prior to use by the Contractor.

The Contractor shall allow a suitable time for temperature stabilization of the test fluid. The stabilization period shall be a minimum of twenty-four (24) hours after the filling operation is complete for a hydrostatic test, and the stabilization period shall be a minimum of eight (8) hours after the pipeline is pressurized to the minimum test pressure for all High Pressure Tests performed with air or other compressed gases. At the sole discretion of the CPS Energy representative, the stabilization period may be reduced for short sections of pipe such as offsets and valve complexes.

The Contractor shall note each significant step or event during the filling, pressurization and testing operation and comments shall be added for any incidents which may affect the results of the tests. Where the specified test duration is two hours or less, deadweight pressure, pipe temperature and ambient temperature measurements shall be recorded at 15 minute intervals. Where the specified test duration is greater than two hours, these measurements shall be recorded at 30 minute intervals.

Upon completion of the test, the Contractor shall obtain the approval of the CPS Energy representative prior to depressurizing the pipeline. The Contractor shall then depressurize, dewater, clean and dry the pipeline to the satisfaction of the CPS Energy

representative. Water shall be disposed of in the manner required by any permits and to the satisfaction of the CPS Energy representative.

D. Test Records - The Contractor shall submit to the CPS Energy representative all documentation associated with the test, including a completed Form I, "Hydrostatic Test Record and Certification" of Appendix I, API RP 1110, (or substantially similar documentation), testing logs and all recorder charts. All documentation shall be labeled to identify the pipeline section that was tested, and it must be signed and dated by the Contractor and approved by the CPS Energy representative.

15. COATING OF PIPE

The Contractor will be furnished coated and wrapped pipe in accordance with such specifications as CPS Energy may in its sole discretion determine. The Contractor will be responsible for coating all field joints and repairing damaged and defective coating on the pipe regardless of the nature, extent or cause of such damage or defect in the coating. However, if the damaged or defective coating is of such magnitude as requires an extra or additional charge by the Contractor, then the Contractor shall first refer such matter to the CPS Energy representative and not proceed until the Contractor has obtained prior written authorization from CPS Energy to do so, in which event the provisions of the Contract relating to extra or additional work shall be applicable.

Coating materials for coating field joints and repairing damaged or defective coating will be furnished by CPS Energy.

For coating field joints, the coating on the pipe must be cut back a distance of 8" to 12" from the joint. The edge of the enamel and felt wrapping shall be feathered at these points to assure a firm bond between the original coating and the field coating. After the joints are welded and tested, and the welds cleaned and brushed, the bare ends of the pipe shall be thoroughly cleaned, then immediately given a hand-brushed coat of primer to dry surfaces. Care shall be exercised to prevent primer from being applied too heavily, especially at the base of the welds; any runs or sags which have dried or dead primer shall be scraped off and the pipe reprimed. After the tape primer has dried to a tacky consistency, apply cold wrap tape with a 30 percent overlap taking care not to create any voids between the pipe and tap coating. No primer or coating will be applied to wet or damp pipe.

After the field joints have been coated and immediately before the pipe is lowered into the ditch, the entire coating will be tested to locate breaks or pinholes and other flaws in the enamel with an approved "holiday" detector in good working condition capable of producing the testing voltage in pulsating cycles at very low amperage. The voltage used shall not exceed 14,000 volts for pipe coatings of 3/32. All defective places will be plainly marked immediately after they are detected. The Contractor will furnish the holiday detector, and will check the coating for holidays in the presence of the CPS Energy representative.

All repairs to damaged coating which exceeds 2 square inches will be made by breaking out the old coating, scraping the pipe to bare metal, feathering the edges to assure a firm bond and repriming. After the primer has dried to a tacky consistency, apply cold wrap tape taking care not to create any voids between the pipe and the tape coating. For repairs less than 2 square

inches, the pipe need not be scraped to bare metal and primed; however, the good enamel around the damaged portion shall be feathered before the cold wrap is applied.

Compression type couplings, valves, welded fittings, etc., will receive a cold applied mastic after the pipe is in the ditch and they have been tested for leaks. A plastic wrap supplied by CPS Energy will be placed over the mastic to protect the coating during backfilling.

Handling of Coated Pipe - Coated pipe shall be handled only with suitable equipment in such a manner as to prevent damage to the coating. The coated pipe shall be placed on skids alongside the ditch until it is to be welded and lowered into the ditch. The skids shall be of sufficient width or padded with sandbags or resilient pads to prevent the skid edges from cutting the coating and wrapping. The skids shall be arranged to permit the coated pipe to bear on the full width of the skid.

At all times, coated and wrapped pipe shall be carefully handled with wide rubber, leather, composition, or canvas slings or belts containing no protruding rivets or belts that may injure the coating. Wire rope, tongs, chairs, hooks, and bare cables shall not be permitted to come into contact with the coating. Coated pipe shall not be handled when the temperature is low enough to cause cracking of the enamel.

16. CATHODIC PROTECTION

The Contractor shall install packaged anodes, insulating joints and insulating flange sets as provided for in the exhibits. Welding machines will not be used to test insulation or otherwise be grounded across insulating devices. Insulation will be checked by the CPS Energy representative and declared acceptable only after testing establishes satisfactory performance.

17. POLYETHYLENE GAS PIPE

Polyethylene pipe, which is commonly referred to as plastic, PE or HDPE pipe, shall be handled only with suitable equipment in such a manner as to prevent damage to the pipe such as fracture, kinking, deep gouges or cuts. The polyethylene pipe shall not be subjected to abuse by dropping, throwing or dragging except over smooth non-scratching terrain or surface.

An insulated copper wire shall be installed with all polyethylene pipe for the purpose of locating the pipe after backfilling. This wire shall be installed with 2 to 6 inches separation between the tracer wire and the polyethylene pipe. Under no circumstances shall the tracer wire be taped or otherwise secured against the outside wall of the polyethylene pipe or spirally wrapped around the pipe.

Fusion of polyethylene pipe joints shall be done by the Contractor in accordance with requirements of D.O.T., Title 49, Part 192 - Transportation of Natural Gas by Pipeline: Minimum Federal Safety Standards, Paragraphs 192.281, 192.283, 192.285, 192.287.

Prior to starting production fusing under this contract each Contractor employee that will be making polyethylene fusion joints shall qualify according to Paragraph 192.285 of the D.O.T. code using a CPS Energy approved procedure. Qualifying tests will be conducted in the presence of the CPS Energy representative.

The Contractor shall furnish all specialty tools and equipment that are required to handle, install, butt fuse and squeeze-off polyethylene pipe. The Contractor shall insure that all specialty tools and equipment are specifically designed for use on polyethylene piping systems and are in good working condition. The CPS Energy representative shall be allowed to inspect all specialty tools and equipment furnished by the Contractor. The CPS Energy representative may disallow the use of any specialty tools or equipment that are not specifically designed for use on high density polyethylene piping systems or are deemed to not be in good working condition. CPS Energy routinely uses the Steve Vick 6" Mark II Coil Trailer for handling large diameter coiled pipe, McElroy equipment for making butt fusions on polyethylene pipe and Mustang squeeze-off tools for stopping the flow of gas in existing polyethylene piping systems. The Contractor shall be required to provide copies of the original manufacturer's literature for all comparable equipment from other manufacturers. At the sole discretion of CPS Energy, comparable equipment from other manufacturers may be approved for use by the Contractor.

All polyethylene pipe joints shall be tested with soap and water with the line having an internal pressure of between 90 and 120 psig. All pressure tests on polyethylene pipe must be observed and approved by the CPS Energy representative. It shall be the Contractor's responsibility to coordinate pressure tests on polyethylene pipe so that such test can be performed with a CPS Energy representative present.

18. LOWERING IN AND BACKFILLING

The ditch shall be free of rocks and clods before the pipe is lowered into the ditch. No pipe will be lowered into the ditch until the ditch has been inspected and approved by the CPS Energy representative.

All stumps and roots found in the ditch line shall be cut so that they will not come in contact with the pipe. All loose rocks, stones, blocks, skids, chocks, tools, heavy clods, tree limbs, and other items, which may damage the pipe, shall be removed from the bottom of the ditch before the pipe is lowered in.

The ditch shall be excavated with sufficient depth to allow for a minimum thickness of four (4) inches of pit run sand to be placed in the ditch below the pipe. Pit run sand placed in the ditch to cushion the pipe shall be leveled and tamped so that the weight of the pipe is as evenly distributed as possible on solid ground.

Backfilling shall be so conducted that the ditch shall be neatly backfilled and compacted. Rock, gravel or like materials shall not be backfilled directly onto the pipe. The Contractor shall provide and shall haul sufficient pit run sand to be backfilled around and over the pipe to form a protective padding or cushion between the pipe and the rock, gravel and other such unexcavated materials. After the pipe has a six (6) inch minimum cover of pit run sand, the remaining backfill may contain rocks and gravel, except that large rocks in excess of four (4) inches in diameter, width or length, shall not be backfilled into the ditch. Such rocks shall be removed from the right-of-way and disposed of to the satisfaction of the landowner, tenant, and/or CPS Energy representative. Care shall be exercised to prevent hand shovels and tampers from damaging the pipe.

Trenches in public roadways will be backfilled and paved in accordance with the requirements of the governmental authority having jurisdiction over the street or road.

Where paving is cut, backfilling and finishing of the top of the trench will be in accordance with the requirements of the authority having jurisdiction over the pavement. On state highways, U.S. highways, expressways and freeways and their frontage roads, and any streets or roadways that are being maintained or rebuilt by the Texas Department of Transportation (TxDOT), the TxDOT specifications and requirements for backfilling trenches will apply. On county roads, private roads, streets in incorporated townships, driveways or paved parkways the backfill will be a mixture of concrete or other material mixtures with depths as required by the authority having jurisdiction and shall be placed in trench to within one and one-half (1-1/2) inches of the surface of the existing pavement. The Contractor shall apply final and finishing topping to cuts in paving with hot mix, hot lay asphalt. Inspection and approval by the authority having jurisdiction over the pavement shall be obtained by the Contractor before the job will be accepted as completed by CPS Energy.

Backfill in public and private thoroughfares shall be hydra-tamped with special care to prevent settlement or damage to other buried utilities.

The Contractor shall not use soil from the right-of-way except from the spoil bank. Any surplus soil shall be disposed of by the Contractor.

When crossing drainage ditches and minor streams, the Contractor shall furnish and install all materials necessary for bank reinforcement. Such backfill must be properly maintained by the Contractor until the entire job has been completed and accepted by an authorized representative of CPS Energy. No reimbursement will be made for repairing of backfill due to floods and/or other conditions occurring before final acceptance.

The Contractor shall control the ditching and backfilling so as to have a minimum amount of open ditch commensurate with good construction practices.

As soon as backfill is completed on a section of line, Contractor shall immediately clean up the right-of-way, removing all surplus and defective materials to CPS Energy-designated locations. Disposal of all refuse such as brush, broken skids, rock, etc., shall be to the satisfaction of the CPS Energy representative. Insofar as possible, the earth on both sides of the line ditch which has been disturbed during the construction of the line shall be leveled, and the ditch line shall be left in a condition satisfactory to the CPS Energy representative. All temporary fills and bridges shall be removed and the area cleaned to the satisfaction of the CPS Energy representative. The Contractor shall, at his expense, furnish, haul and install black top soil on the ditch line and right-of-way area where necessary in the opinion of the CPS Energy representative to leave such area in the same condition as existed prior to the commencement of the work and/or to obtain the minimum required cover for the utility lines as specified.

Upon completion of all backfilling and cleaning of the right-of-way, permanent repairs shall be made to all fences by using equivalent or new fencing materials. All fence repairs must be satisfactory to CPS Energy representative. These repairs are to be made by Contractor at no extra compensation.

19. FINAL PIPING CONNECTIONS AND/OR TIE-INS

The Contractor will make all connections of new gas lines to existing gas lines. This includes all necessary preparations for tie-ins and purging for all sections of gas lines installed by the Contractor. The Contractor will be required to weld short stop fittings and other necessary fittings on existing steel gas lines that will be used by CPS Energy personnel to control the flow of gas into the new gas lines. CPS Energy personnel will control the flow of gas on all operative gas facilities while the Contractor is making final piping connections and/or tie-ins.

The Contractor shall be responsible for insuring that all tie-ins between new and existing gas mains are performed in a safe manner. The Contractor shall furnish all necessary equipment and instrumentation that is required to insure that the final tie-in welds and/or fusions between new and existing gas facilities are performed in a safe manner. Such equipment and instrumentation may include pneumatic air movers, combustible gas indicators (CGI's), oxygen monitors, self-contained breathing apparatus and fire retardant clothing for construction personnel, and fire extinguishers.

20. REMOVAL OF EXISTING PIPE

The asphaltic wrap on pipe removed under this contract may contain asbestos. In handling the pipe (including the excavation, cutting, removal, loading and unloading of such pipe), Contractor shall observe all State and Federal worker protection regulations and standards, and all environmental and public safety standards that are applicable to such work, including the OSHA standard found at 29 CFR Section 1926.1101, and following, that relates to the occupational exposure standard to asbestos for the construction industry.

The Contractor will indicate in its bid the manner in which the pipe shall be managed after removal. For example, Contractor shall indicate whether the pipe will be disposed at a licensed landfill facility, will be recycled as pipe by Contractor, will be sold to and recycled as pipe by a third party, will be recycled by a third party as scrap metal, etc. If dealing with a third party, Contractor shall identify the various third parties Contractor will rely upon to provide the indicated services.

For all pipe removed from the ground under the terms of this contract, Contractor shall place the following notice, beginning approximately two (2), feet from each end of the pipe, in stenciled or comparable lettering, i.e. not attached labels, of not less than 3 inches in height;

PIPE WRAP MAY CONTAIN ASBESTOS

Upon removal of the pipe from the ground, ownership of the pipe is transferred to the Contractor.

21. PURGING NEW GAS FACILITIES

CPS Energy personnel will purge the new gas mains, and the Contractor will purge all new gas service lines or existing gas service lines that have been tied-over to the new gas mains or otherwise adjusted.

22. GOODWILL OF GAS CUSTOMERS & RESIDENTS IN THE WORK AREA

The Contractor shall make reasonable efforts to create goodwill among the property owners, tenants and lessees along the right-of-way of the gas construction project.

For this reason, no gas service shall be cut-off after 2:30 p.m. each day. All gas services that have been cut-off during the day must be restored before 4:00 p.m. that same day. If the Contractor is consistently late in restoring gas service by 4:00 p.m., the contract may, at CPS Energy's discretion, be adjusted to reflect an earlier cut-off time.

When customer gas service is to be interrupted, the Contractor must use CPS Energy approved door-hangers to inform the customers of the impending construction activity. The door-hangers must be placed on the front door of each residence at least 48 hours prior to construction, and the Contractor must contact each customer by telephone or in person before the gas service is cut off.

The Contractor shall provide approved sanitary facilities in sufficient quantities and at such locations as may be needed for workers on the job.

24. WORKDAYS, WORKING HOURS AND HOLIDAYS

Normal working hours for this contract shall be from 7:30 a.m. to 4:00 p.m. Work days shall include Monday through Friday, except for holidays. Holidays shall include the following days: New Year's Day, San Jacinto Day (observed on Friday of Fiesta Week), Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, and Christmas Day. If the holiday falls on a Saturday, it will be observed on the preceding Friday. If the holiday falls on a Sunday, it will be observed on the following Monday. Christmas Eve and New Year's Eve will be observed as holidays when Christmas Day and New Year's Day fall on Tuesday through Friday. Exceptions to these working hours and work days will be allowed by CPS Energy when required by the governing entity, mutually agreed upon by both Contractor and CPS Energy or the customer approves or requests work to be performed outside of these established times. **At the sole discretion of CPS Energy, service renewal work can be suspended during periods of extremely cold weather.**

25. ACCEPTANCE

The CPS Energy representative will make all inspections and final acceptance of the work performed by the Contractor for CPS Energy.

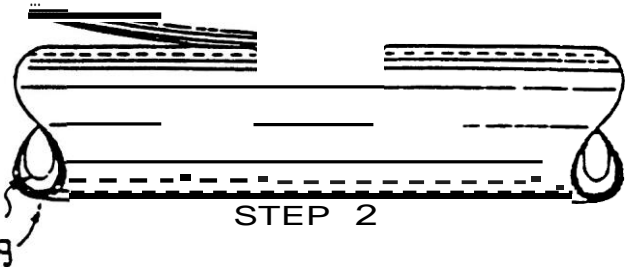
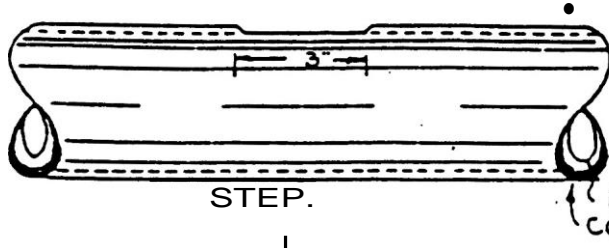
As required by CPS Energy, Contractor shall maintain and provide a copy of the "as-built" job sketch and all associated documents once the work is completed.

CPS
Design Standards
(Steel Gas Pipe)
Exhibit GAS-3



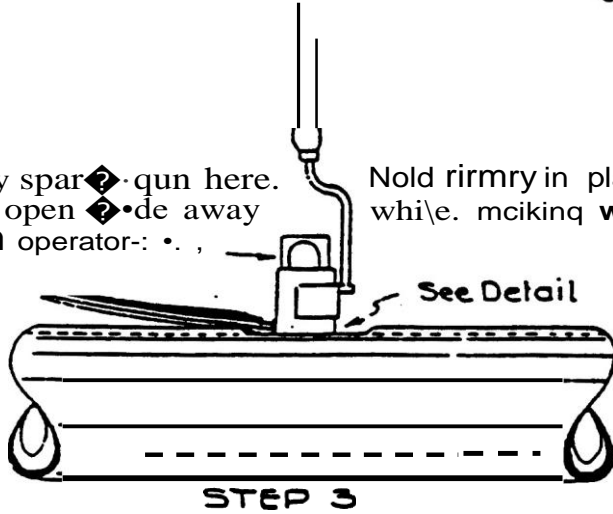
Remove cap of can of flux and fill pipe with flux. The flux should be clean and dry.

Strip 1 1/2 in. of insulation from wire and place copper sleeve on a 10 and roller wire.

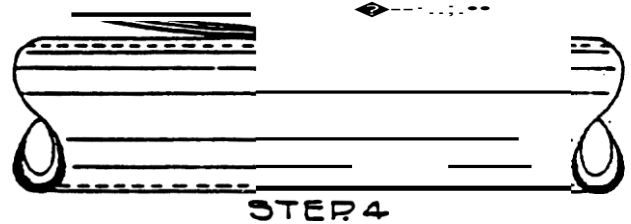


Apply spray gun here. Keep open 1/2 in. away from operator.

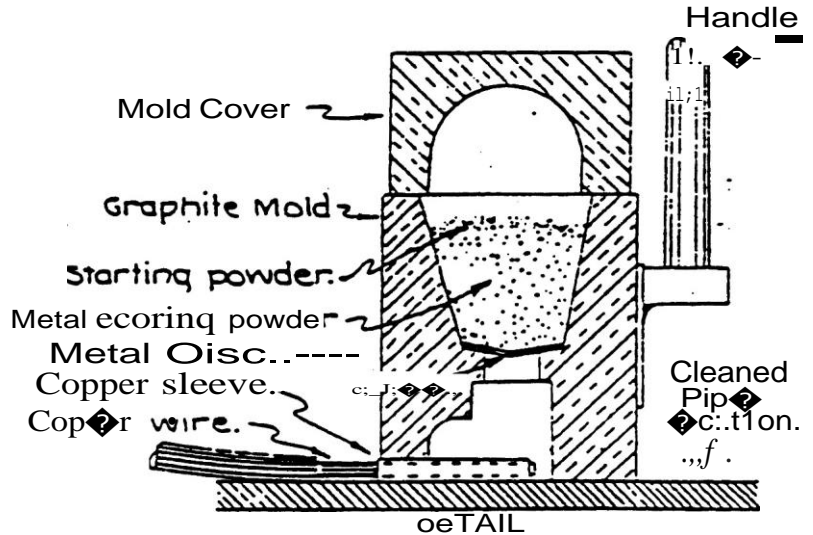
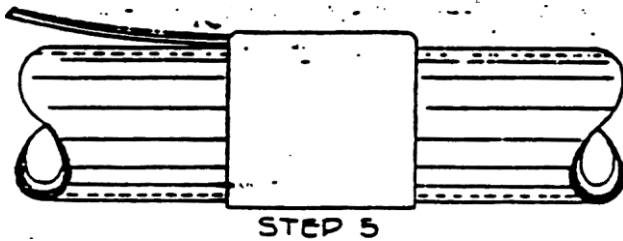
Hold firmly in place while making weld.



Remove flux with hammer and point thoroughly with primer.



Cover pipe with cap. Cover entire weld.



IMPORTANT

1. REMOVE CAP OF CAN OF FLUX AND DUMP OF CONTENTS INTO "MOLD". THE CHANGE WILL NOT BE NEEDED WITH THE FINE STATEMENT ROWER LINE.

1. THE CAP OF THE "MOLD" IS TO BE KEPT AT ALL TIMES.

Cadweld, sold with sleeve for 1/2 in. and 3/4 in.

CITY PUBLIC SERVICE BOARD

GAS DEPARTMENT

COOPER WITH CONNECTION TO PIPE USING CADWELD.

SCALE 2" = 1'	APPROVED	FIG.
DRAWN C.W.T.	BY W.D.B.	64
CHECKED <i>W.D.B.</i>	DATE 4-13-54	

INSTRUCTION SHEET : TYPE T-3 LOIR

PREPARATION OF SURFACE:

To obtain a good weld, surface must be bright clean and dry.

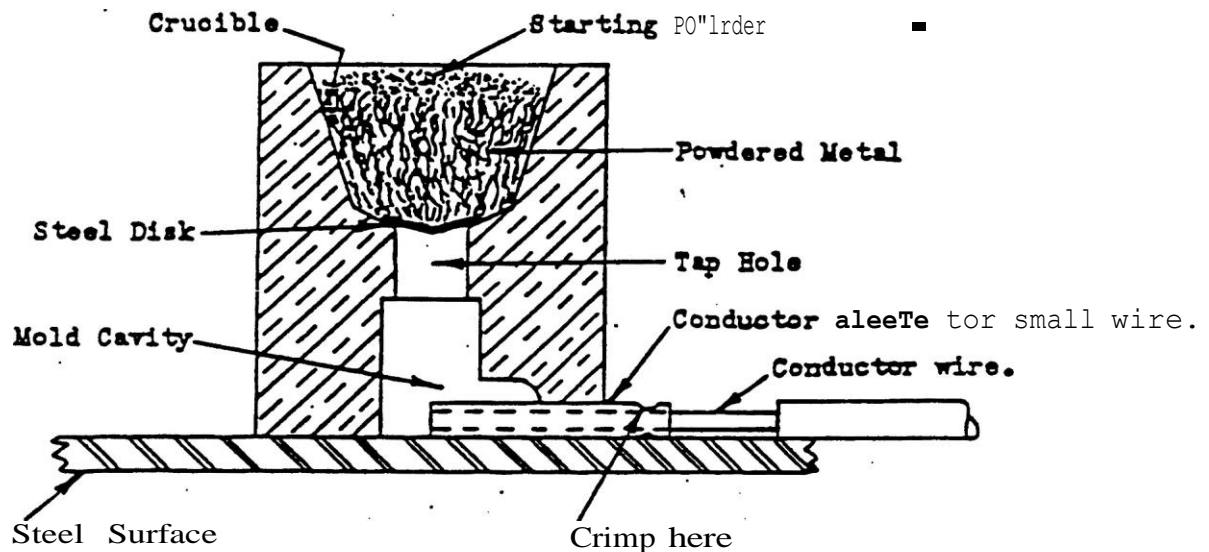
Steel surface should be ground or filed to remove all scale, rust, grease and dirt.

Galvanized steel must be cleaned with emery cloth to remove oxide.

PREPARATION OF WIRE:

Strip the insulation from the conductor and scrape until wire is bright and clean.

For #10 and smaller wire, place the wire in a copper sleeve, end flush, and crimp the sleeve tightly to the wire at the insulation to provide additional mechanical strength at the weld.



WELDING PROCEDURE:

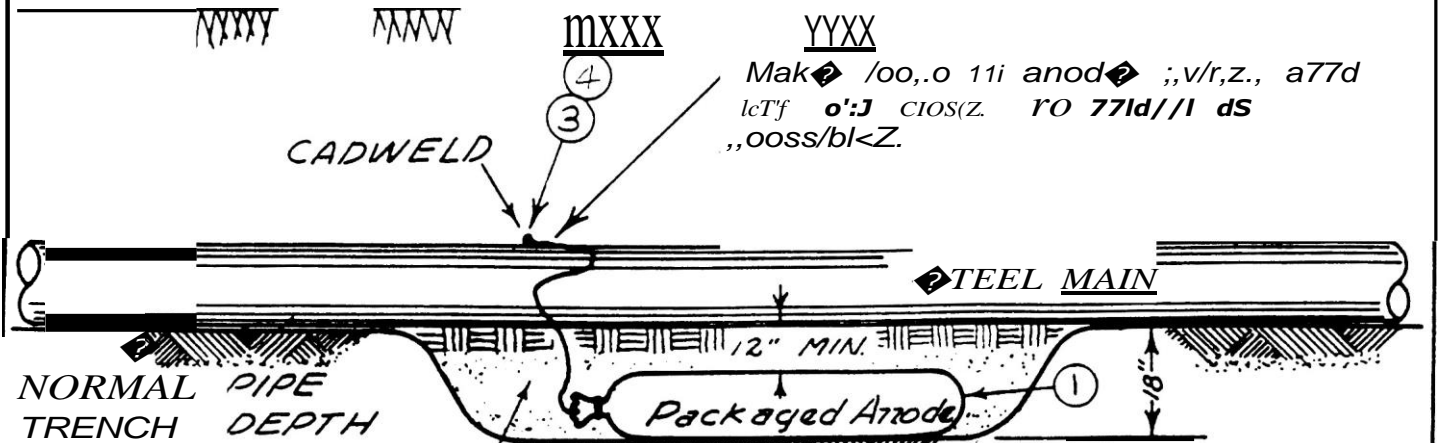
- (1) PLACE THE CRUCIBLE OVER CLEAN STEEL SURFACE and insert the wire until it is under the CENTER of the tap hole.
- (2) COVER TAP HOLE WITH STEEL DISK.
- (3) TIGHTEN CRUCIBLE AND CLOSE COVER. (Tap bottom of cartridge to be sure starting powder is emptied). Replace empty cartridge in box to keep remaining cartridge in an upright position.
- (4) HOLD OFF THE TRIGGER TO PREVENT LEAKS AND IGNITE WITH FLINT GUN. Jerk gun away to prevent fouling. Should gun become fouled, clean in Spirit or Ammonia.
- (5) DO NOT REMOVE CRUCIBLE UNTIL METAL HAS SOLIDIFIED.
- (6) ALL SLAG MUST BE CLEARED FROM MOLD BEFORE MAKING NEXT WELD.

Notes Wet or damp molds produce porous welds. Mold can be dried-out by firing a charge before making the desired weld.

4.5

PACKAGED AIDDES

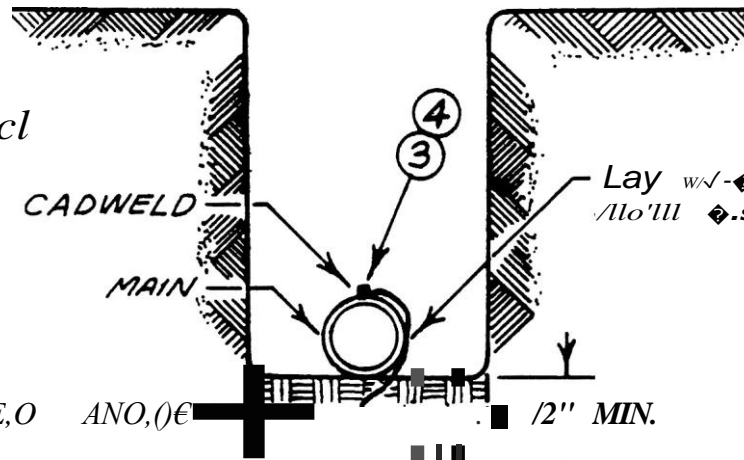
EXISTING GROUNDS



Normal Pipe Trench Depth

Not: QUALITY TOP STEEL
 51z c1nd /ocabo11 or anod will b4.:J,.04CiTi«d on n1a/i7 5kat"cll.

A11oda 5/,ovld
 llitZV or bL- picid
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WITM UTILITY TOPSOIL

0 PACKAGE,0 ANO,0€
 Lay w/- a c/o.sc ro
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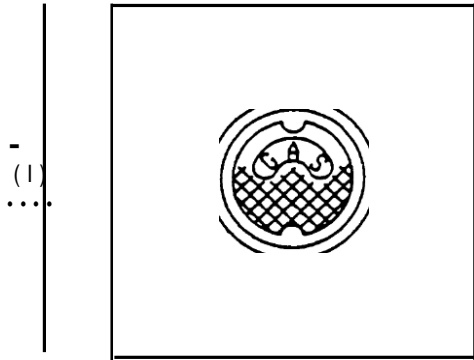
NOTES:

- a. C3dweld connection to be primed and coated carefully.
- b. Packaged anode should be covered with fine soil containing no rocks, clods, or sand.
- c. Pour 5 gallons of water over anode location and tamp thoroughly.
- d. Provide test leads when specified. (See test lead standard)
- ◆ Anode specification sheet will be attached to main order, and is to be completed by the main construction foreman.

DATE	APPROVED	CITY PUBLIC SERVICE BOARD	DRAWING DS-33
ISSUED 9-1-70	CJH		
REVISED		CONSTRUCTION STANOARO (GAS)	G-S-171-1-2

VALVE. STEEL
<WELD x FLANGE>

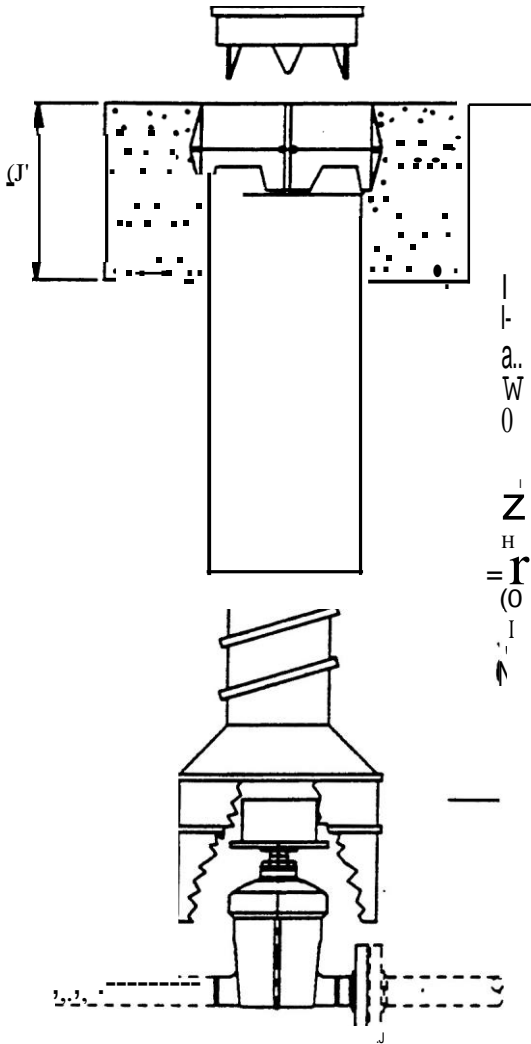
.18"



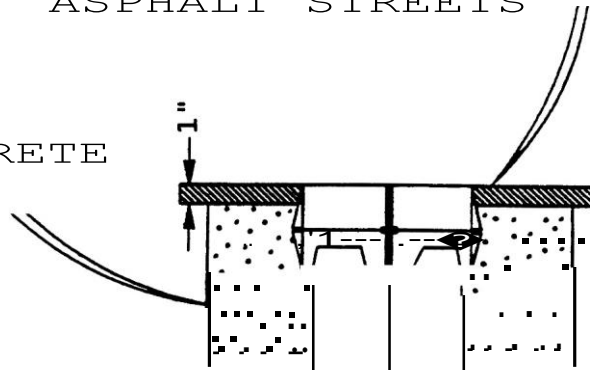
CAM UNITS
VGS2WXF
VGS4WXF

NOTE: TAMP 8c. BACKFILL
VALVE BOX ABOVE
PIPE.

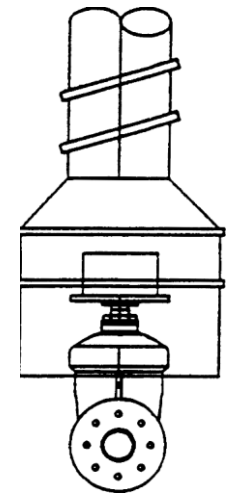
OPTIONAL METHOD FOR
ASPHALT STREETS



CONCRETE



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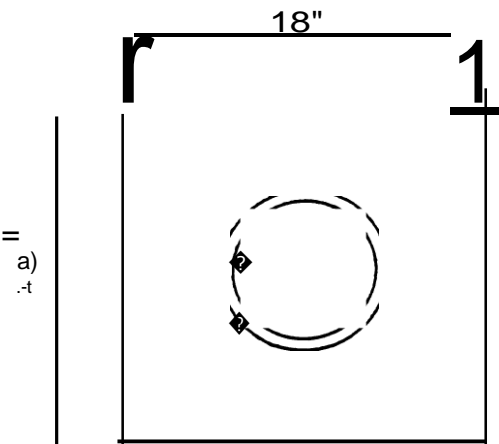


NOTEa COAT VALVE UP TO TOP OF PACKING GLAND.

AVAILABLE SIZESa 2.4 Page 5 of 19

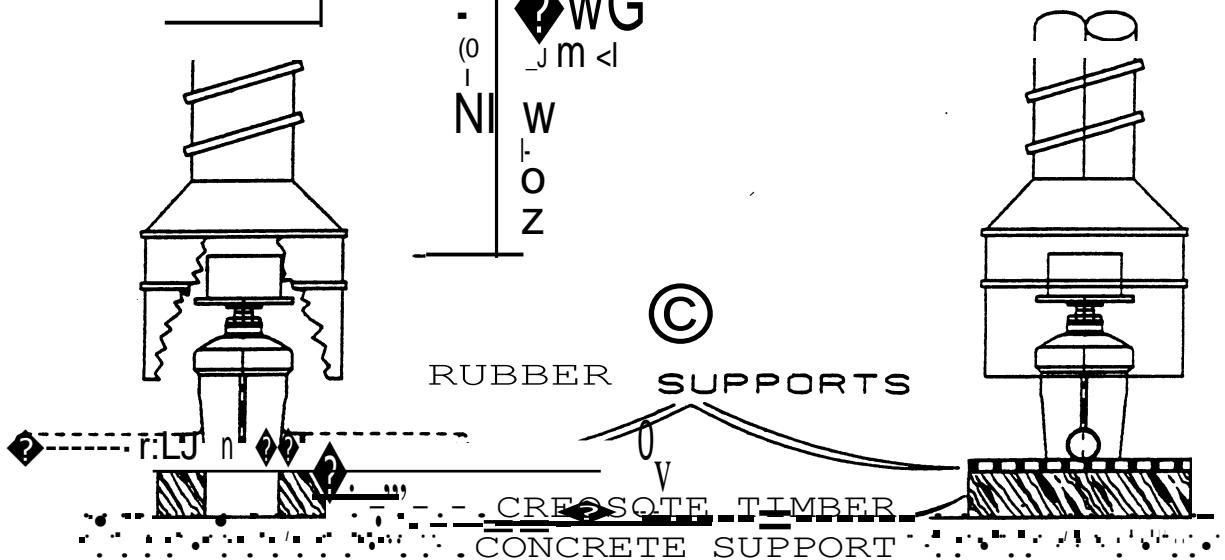
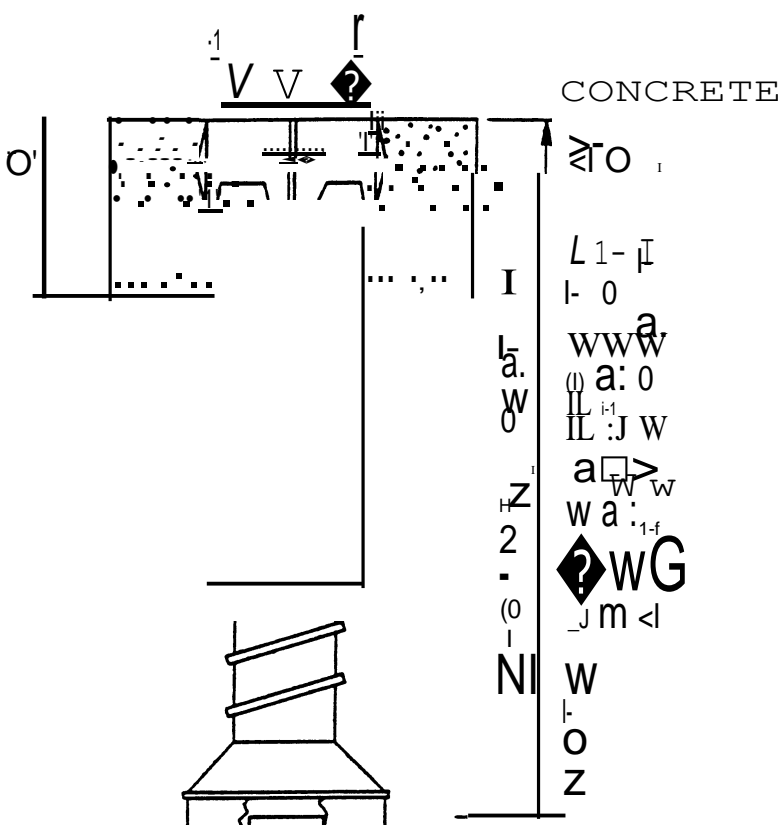
ISSUEC	APPROVED	CITY PUBLIC SERVICE	0 - S - 127 - 1 - 0
REVISED		CONSTRUCTION STANOARO <GAS>	DRAWING DS-36

VALVE STEEL
<WELD > WELD>



CAM UNITS	
VGS2WE	VGSSWE
VGS4WE	VGS12WE
VGSSXSWE	VGS16WE

OPTIONAL METHOD FOR ASPHALT STREETS

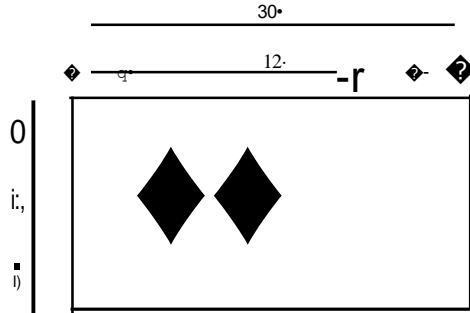


NOTE 1 ITEMS 6 AND 11 ARE TO BE INSTALLED FOR 12" VALVES OR LARGER. COAT VALVE UP TO TOP OF PACKING GLAND.
AVAILABLE SIZES, 2. 4. 8 > 6. a. 12

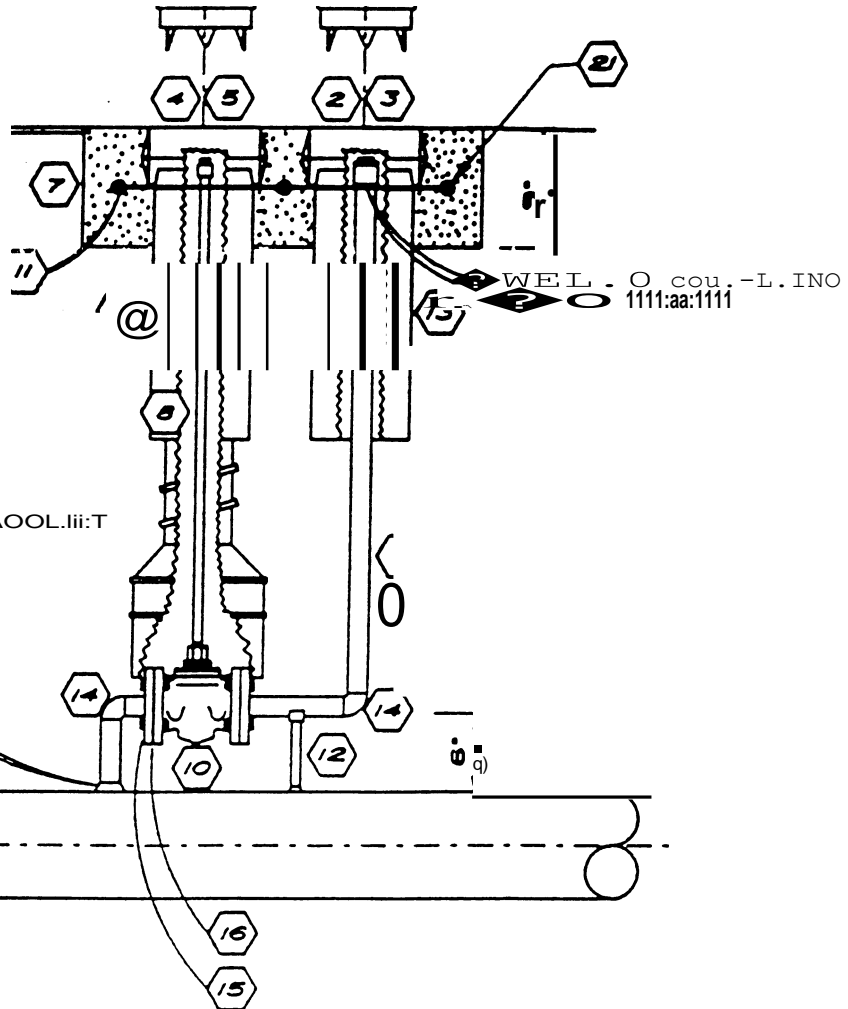
ISSUED	CATIE	AP, FLOVIEO	CITY PUBLIC SERVICE	0 - S - 12" - 2 - 0
REVISED			CONSTRUCTION STANOARC <OAS>	DRAWING DS-37

TEST RISER 2 IN.

EXHIBIT DST-3



A819HAL.T



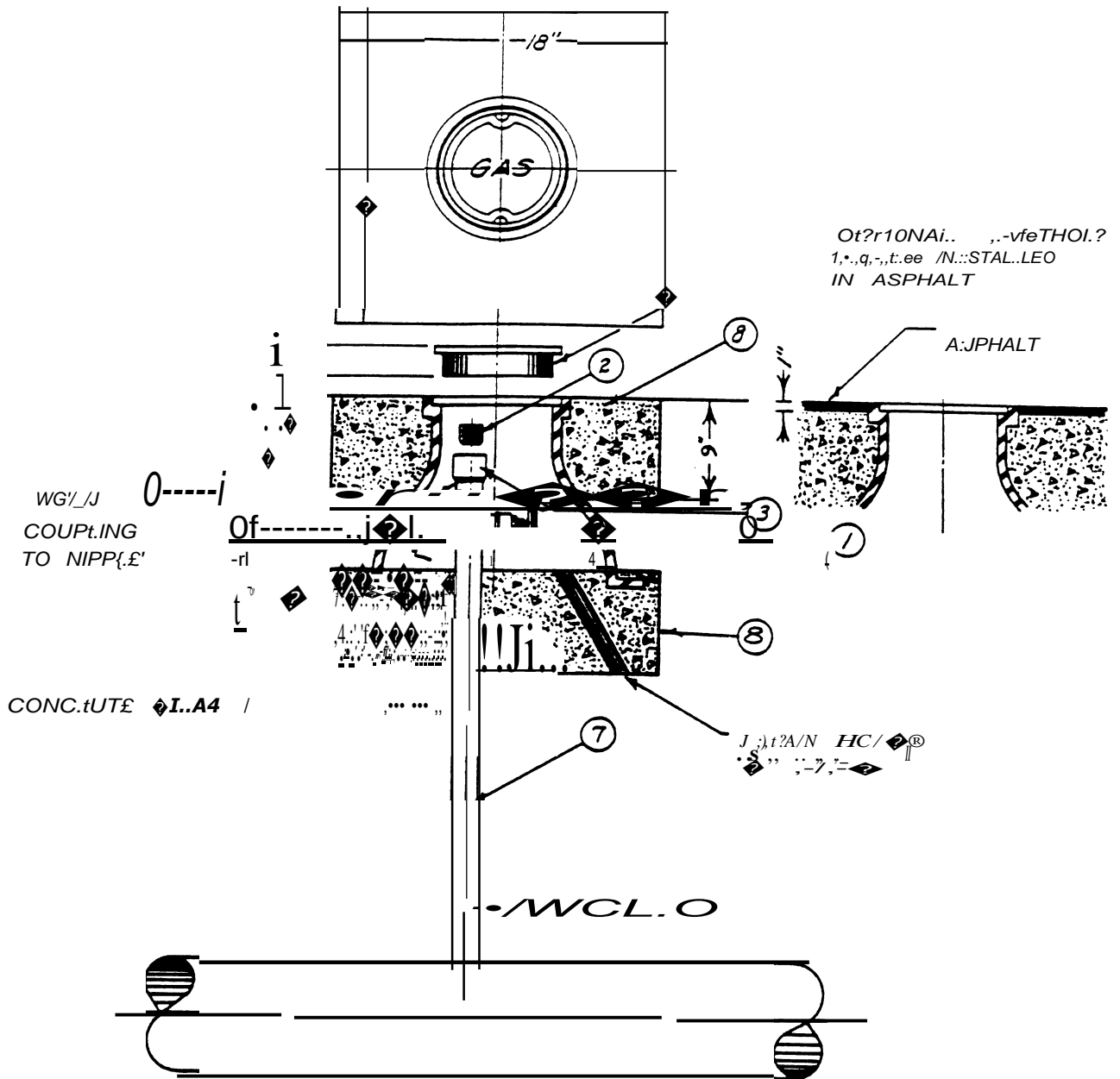
NOTE 1
EXIBITINO MAIN-USE 2" THFtlil:AOOL.lil:T

NEW TO MAIN IN ST-2

ISSUEO	DATE	APPROVED
	2/92	<i>D. Vogel</i>
REVISE'.O		

4.5

TEST RISER, 1 IN.

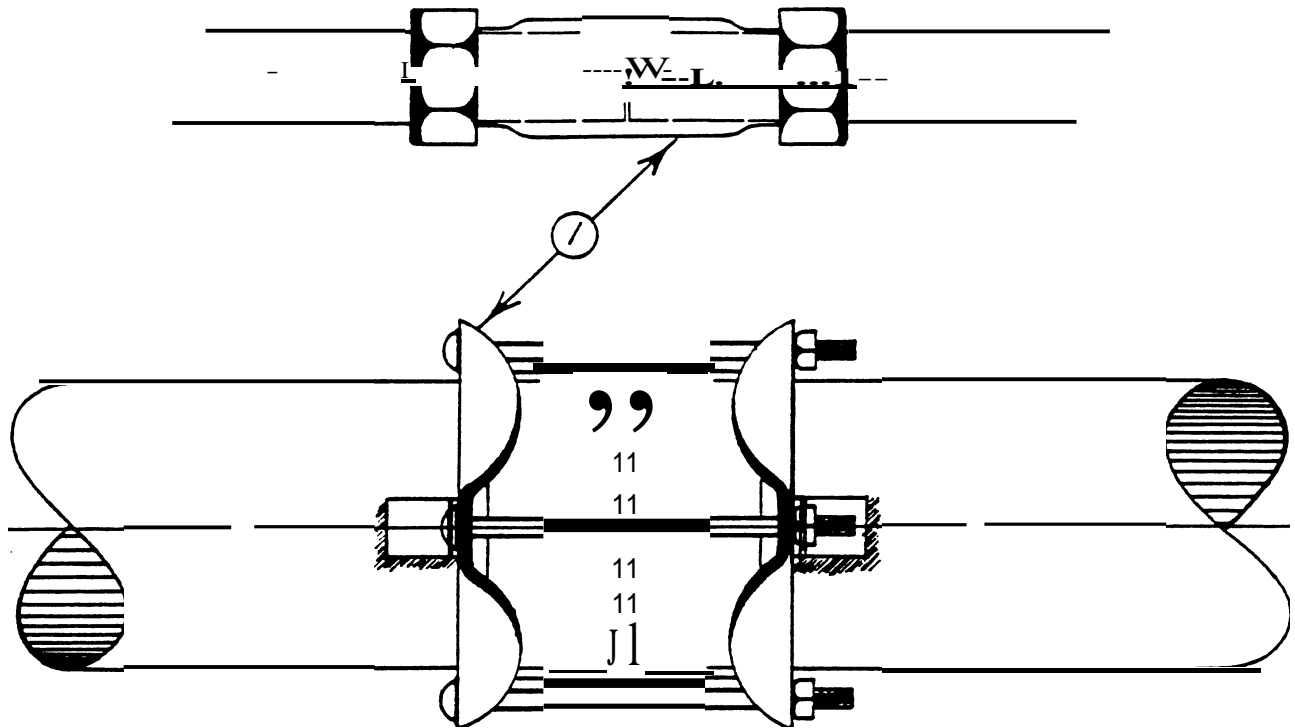


ISSUED	DATE	APPROVED	CITY PUBLIC SERVICE BOARD CONSTRUCTION STANDARD (GAS)	DRAWING DS-39
REVISED	--70	◆		G-S-141 -1-0

4.5

COUPLING, BONDED

WITH WEL..O LUGS



NOTE: 1 All couplings to be centered over pipe joint with minimum spacing between pipe ends. **Spacing shall** not exceed 1".

1 File pipe to **bripC** finish over areas covered by bonding gaskets. Area should be a **minialm** of 2-1/2" wide.

1 Lubricate **gasket** with soap water before installing.

◆ Tighten all bolts on coupling uniformly.

AVAILABLE SIZES: 3/4" . 1" . 1-1/4" . 1-1/2"
 2" . 4" . an . 12" . 16" . 18" . 20" . 24" . 30"

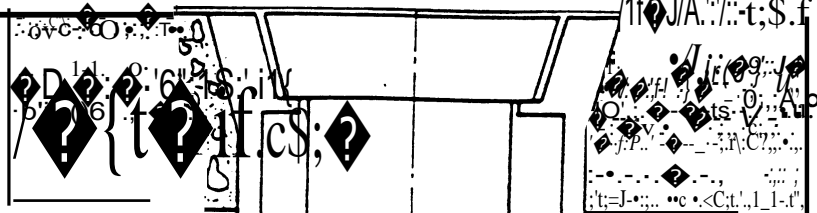
◆ .4 ◆

	DATE	APPROVED	CITY PUBLIC SERVICE BOARD	DRAWINGJ1S-4
ISSUED	19-7-01	CJ.		
REVISED				

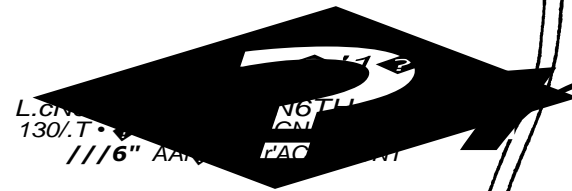
4.5

INSULATING FLANGE

1/2" J.A. 1/2" t; S.f



L. 1/2" J. 1/2" N. J
 I Qh; 3(11

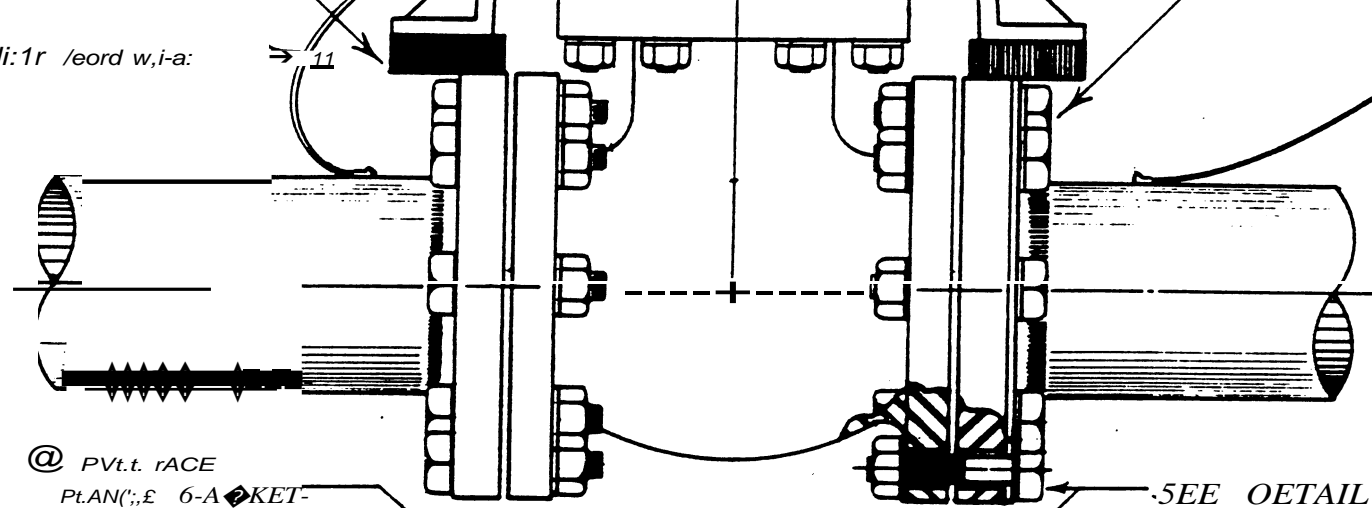


L. 1/2" J. 1/2" N. J
 130/T. 1/2" J. 1/2" N. J
 1/16" A.A. 1/2" J. 1/2" N. J

t/s cc., O' ot/ d'v'lo r'r"C
 J'o r,u/n ..1/vc .60/ n
 y,1/vc.

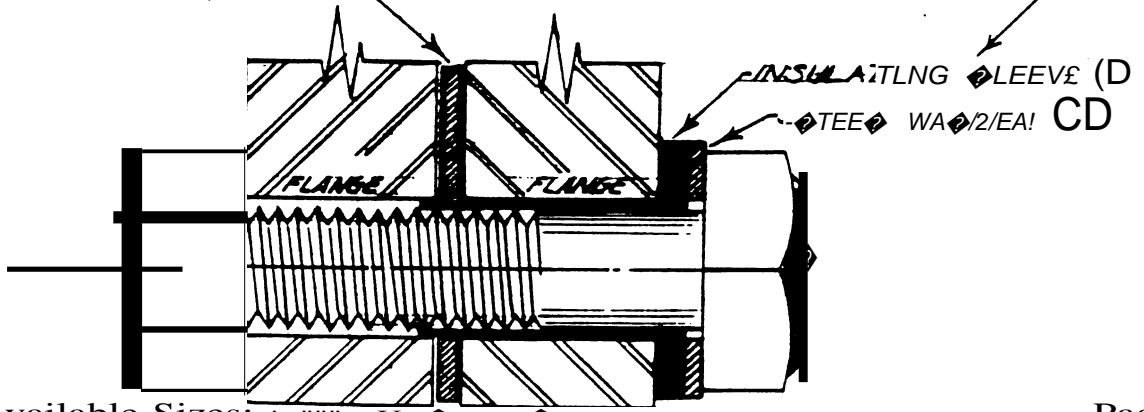
,Pn>114 111d c
 v,sv,r cd ,r-/T9C
 W.H Ctlrc

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@ P.V.t. rACE
 Pt.AN(,E 6-A KET-

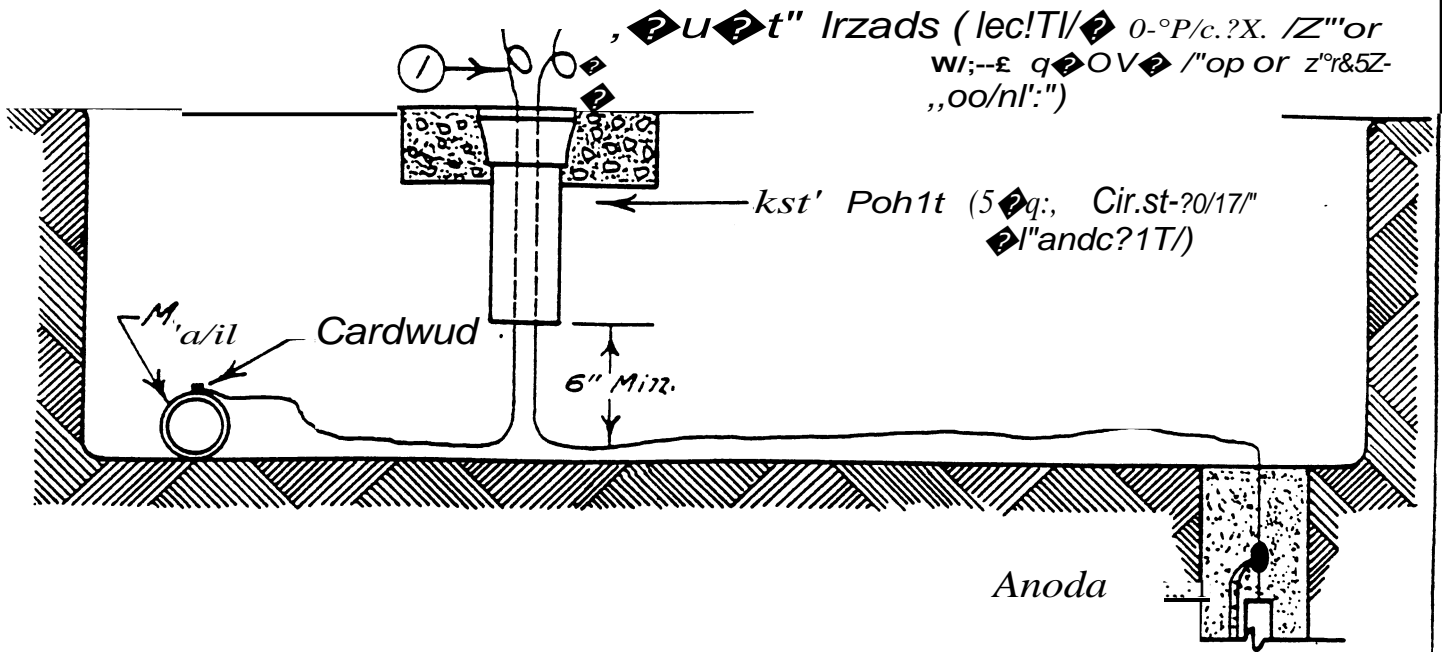
-SEE DETAIL



Available Sizes: 2, 4, 8, 12, 16; 150# Flg (2, 4, 8, 12, 16); 150# Exis-t Ylg (2, 4, 8, 12, 16); JOO# Flg (12, 16, 20)

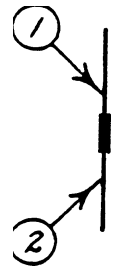
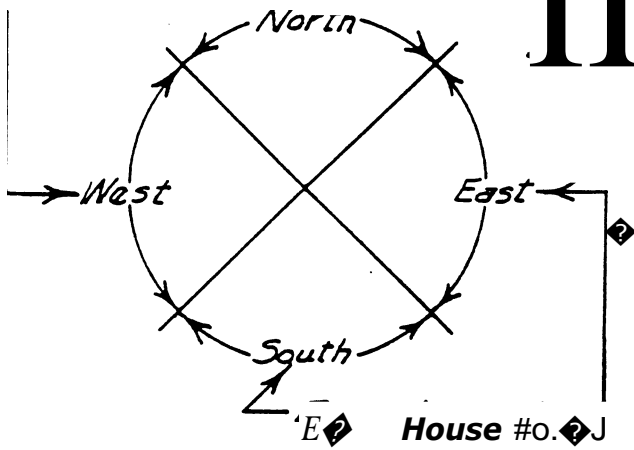
4.5

CATEODIC PROTECTION TEST LEAD CONNECTION TO MAIN



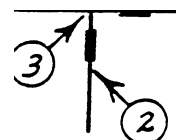
Odd f/ov:,tt /./o.'\$7

11



il >

7 ft



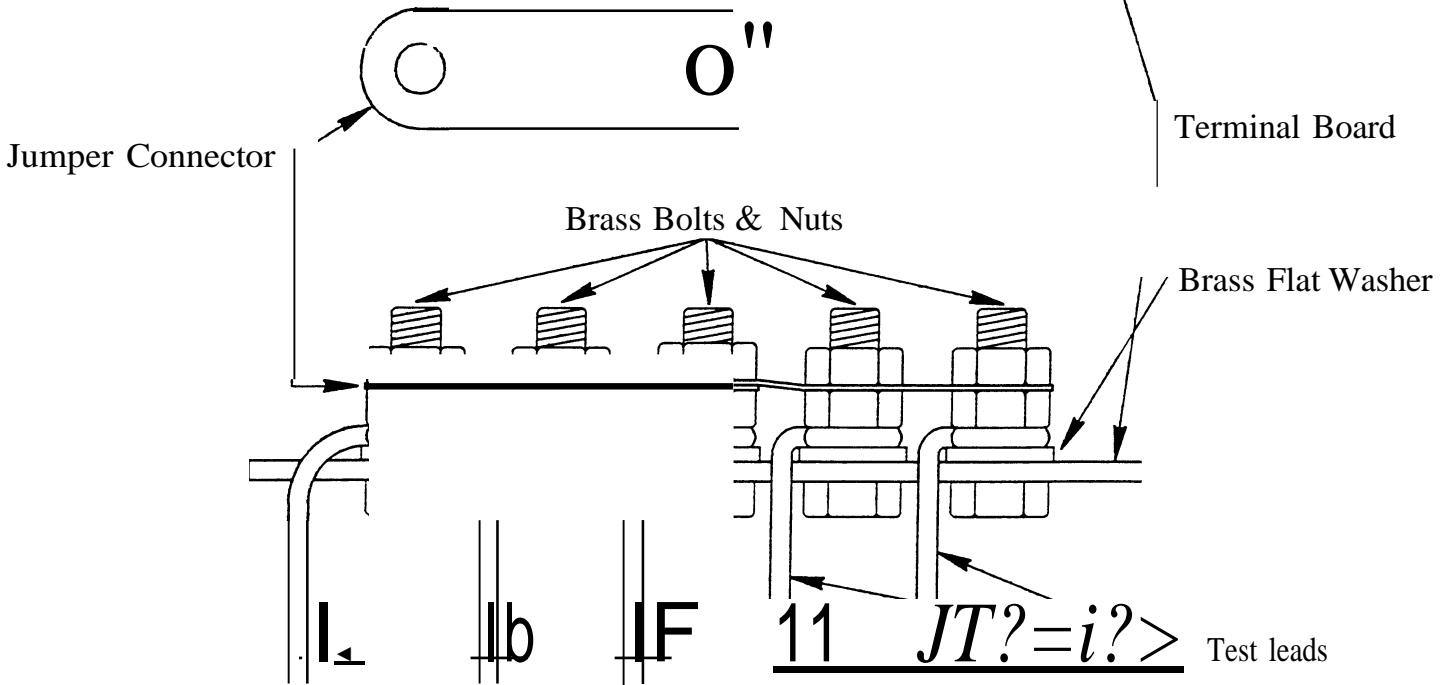
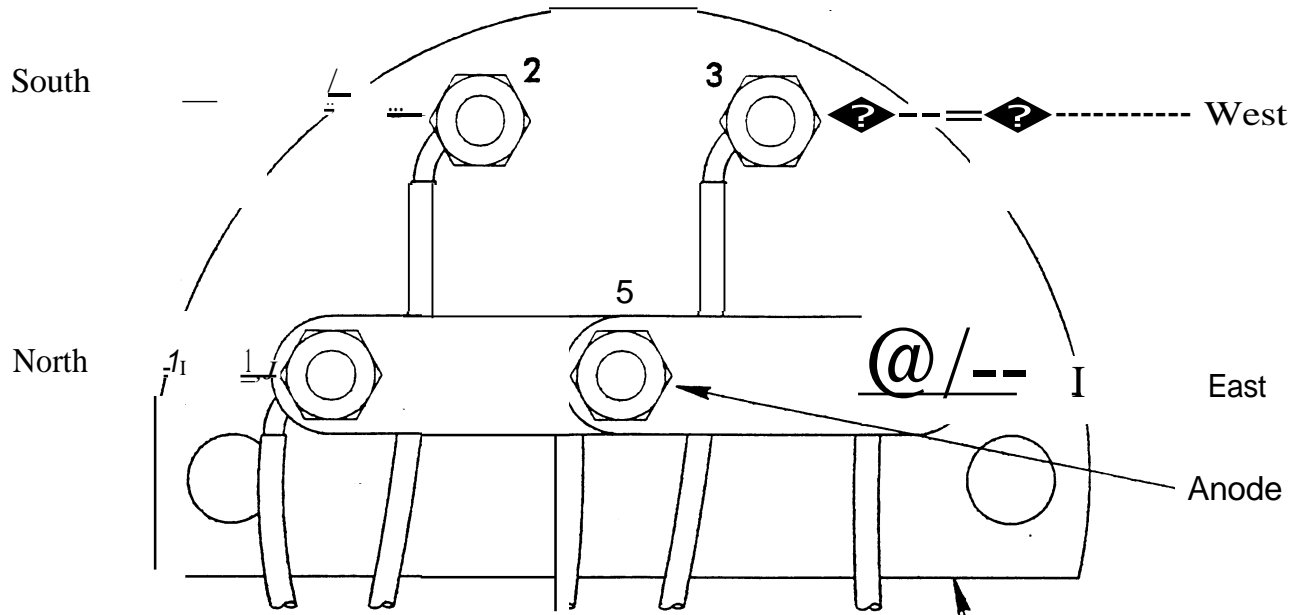
I

NOTES

1. All test leads to be No. 10 type TW solid copper wire.
2. Test point record cards will be attached to main order, and are to be completed by the main foreman.
3. All test leads should be tagged with a metal tag about 6" from end of lead according to the following numbering code:

- 1 North
- 2 South
- 3 West
- 4 East
- 5 Anode

	DATE	APPROVED	CITY PUBLIC SERVICE BOARD	DRAWING DS-43
ISSUED	1010	C-J		G-S-182-1-0
REVISED				

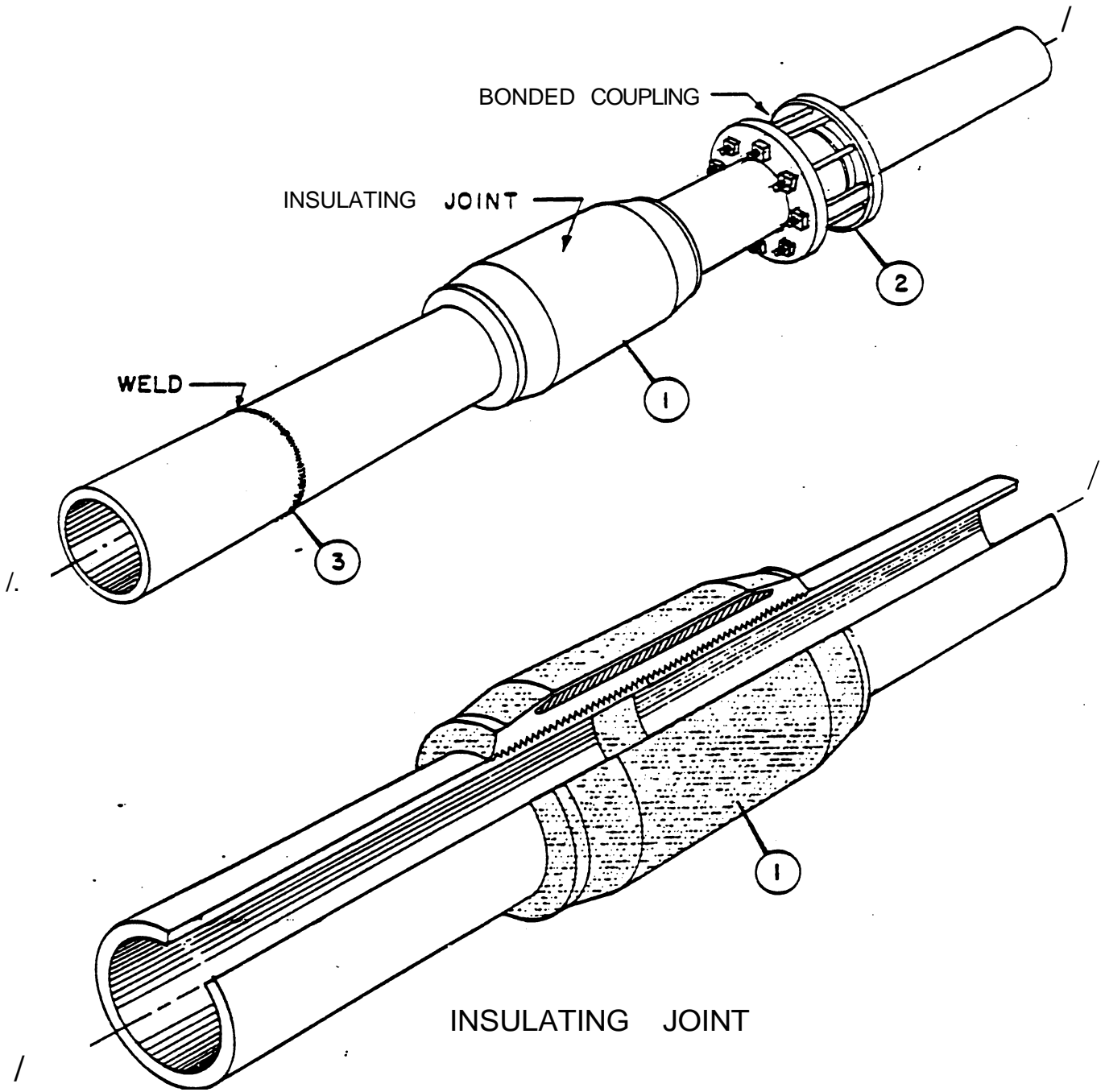


Note:
 Conned test leads on top
 side of terminal board

	Date	Approved
lauded	11-28-94	<i>M. Kotara</i>
119vised		

4.5

INSULATING JOINT a"t. 12"



AVAILABLE SIZES: e" 8 12"

DATE	APPROVED
6/5/00	<i>S.R.J.</i>

CITY PUBLIC SERVICE BOARD

DRAWING DS-45

ISSUED

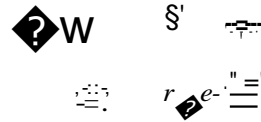
CONSTRUCTION

C>R.dWIPJr. /r..d 1

.. 1" 1" 1" 1" 1"

PLUGGING EMBRYONIC FITTINGS

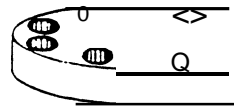
CAPPLUGS



SOCKET HEAD SCREWS



COVER



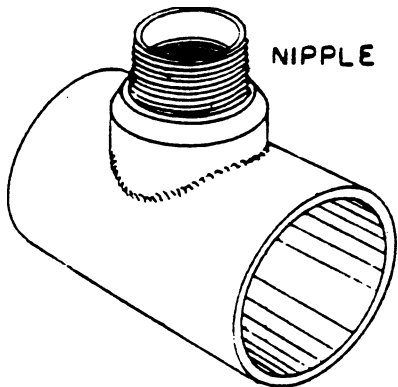
TEF'LON GASKET



CAP

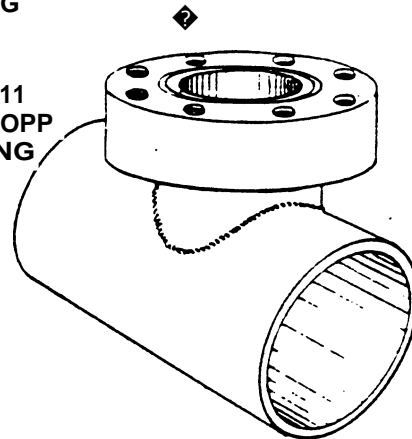
@ COMPLETION PLUG

COMPLETION PLUG



NIPPLE

TYPE 11 SHORTSTOP FITTING



Plug 2

Plug 4,8 a 12

NOTE:
4" YELLOW SALL MARKERS
(PASSIVE ANTENNA) TO SE
BURIED DIRECTLY ABOVE 8" and 12"
SHORTSTOP FITTINGS AT A
MAXIMUM DEPTH OF 4 FEET.

APPROVED	WRG	ERJ	
DATE	10/83	10/83	9/90

QTY. PU81.JC SERVICE B0A1AO
CONSTRUCTION STANDARD

PLUGGING EQUIPMENT INSTALLATION

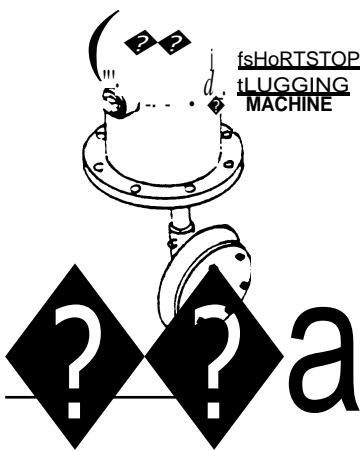
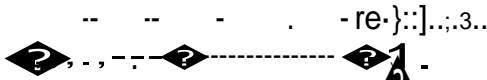
IMPORTANT

THE ARROW ON THE TEE HANDLE AND THE PLUGGING HEAD SHOULD BOTH FACE TOWARD THE SECTION OF MAIN BEING CUT.

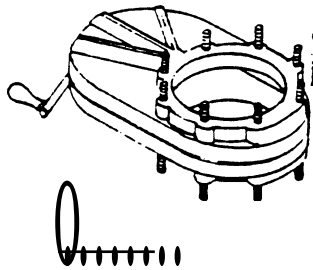


T:

TYPICAL SETUP FOR PLUGGING MACHINE



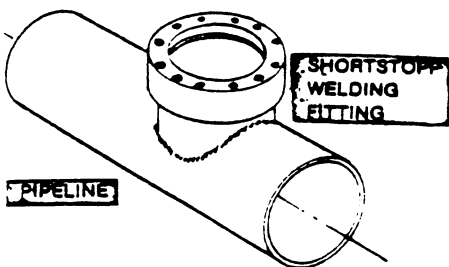
SHORTSTOP PLUGGING MACHINE



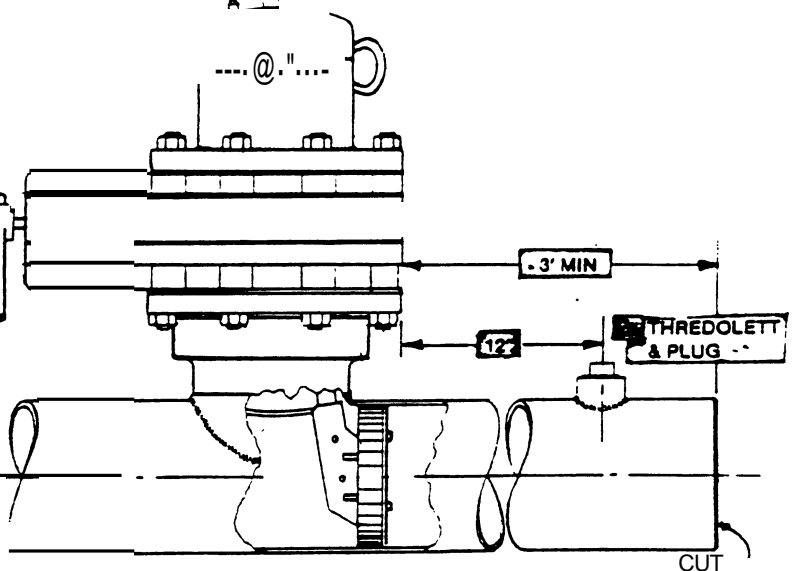
SHORTCUT VALVE



VALVE-TO-FITTING ADAPTER



SHORTSTOP WELDING FITTING



ALL SIZES MEET ANSI CLASS 150 SERVICE RATINGS. WHEN USED WITH TDW PLUGGING MACHINES. THE MAXIMUM RECOMMENDED WORKING PRESSURE IS 80 PSI FOR SHORTSTOP PLUGGING MACHINES.

APPROVED	WRG	FRL			
DATE	10/07	10/13			

INSTALLATION INSTRUCTIONS TYPE II SHORTSTOPP® FITTING

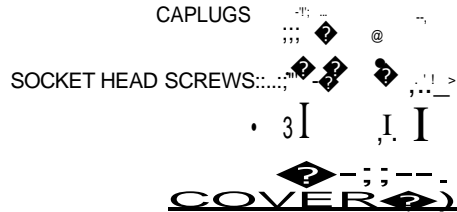
- 1 Remove completion plug from inside fitting before welding.
2. Clean all weld edges thoroughly - remove all paint, dirt, rust, oil, etc.
3. Apply grease to machined surface inside fitting to protect machined surface from weld spatter.
4. Center and level fitting. Flange centerline should intersect centerline of pipe, and flange gasket surface parallel to pipe.
5. Maintain 1/16" to 1/8" gap between fitting and pipe surface for proper penetration. DO NOT WELD INSIDE of fitting to avoid tapping problems.
6. Place white Teflon gasket on face of fitting.
7. Position reusable valve adapter flange on fitting so that the flow arrow stamped on flange adapter is in line with the pipe. Be sure that fitting and valve adapter flange bores are concentric.
8. Attach valve adapter flange to face of fitting; use socket head screws furnished with the fitting. A minimum torque on socket head screws assures a leak-tight joint.

4" fitting...40 to 60 ft. lbs.
 8" fitting...60 to 90 ft. lbs.
 12" fitting...60 to 90 ft. lbs.

CAUTION

Excessive overtorquing can break socket head screw. Broken socket head screw can be difficult to remove and could allow fitting to leak.

9. Place a standard ANSI flange gasket on face of valve adapter flange. Then install T.D.W. Shortcut Valve on the valve adapter flange.
10. Proceed and use standard T.O.W. Shortstopp equipment.
11. After completion plug has been set and Shortcut Valve has been removed, remove reusable valve adapter flange.
12. Install cover (blind flange) on fitting with use of socket head screws and Teflon gasket. Use minimum torque value as shown in Item 8.
13. Insert plastic Caplugs into hex holes of socket head screws on cover. Caplugs help prevent dirt and other foreign matter from entering fitting.

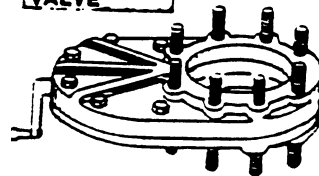


TEFLON GASKET

SHORTSTOPP FITTING

FITTING

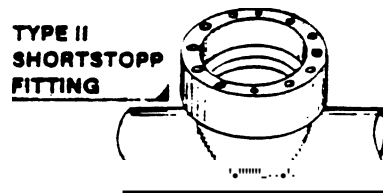
SHORTCUT VALVE



STANDARD 70 ANSI GASKET



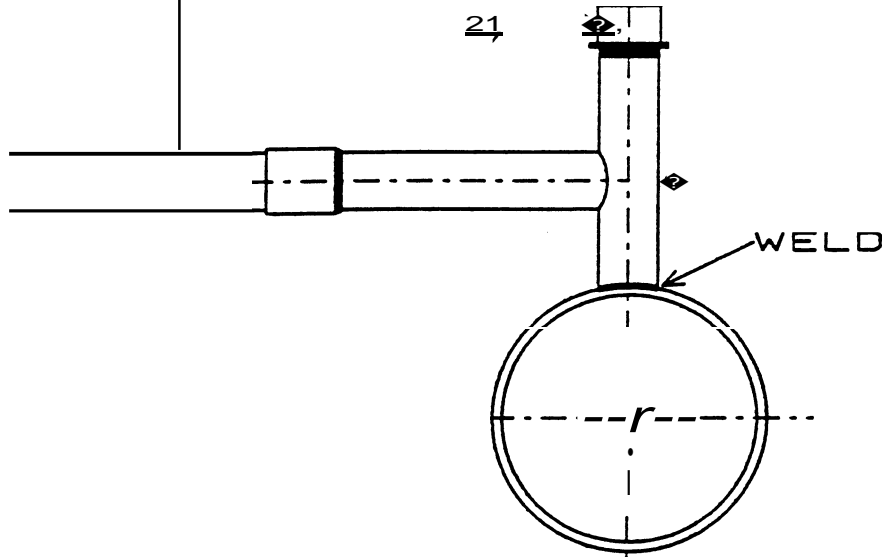
TYPE II SHORTSTOPP FITTING



APPROVED	WRS	5-20
DATE	12/13	10/03

TEE SERVICE WELDED TRANSITION
STEEL TO PLASTIC

STEEL TO PLASTIC TRANSITION FITTING



SIZE	SERVICE	DRILL SIZE
1		3/4"
1-1/4		1-1/4"

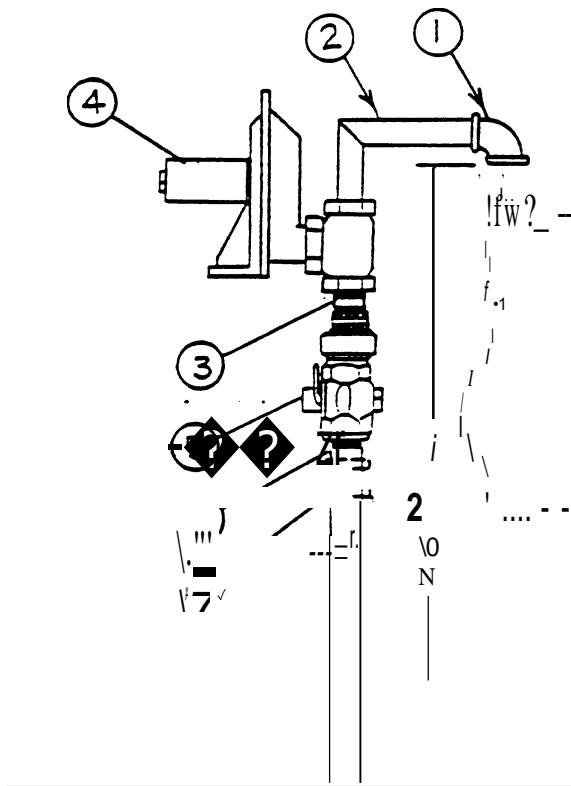
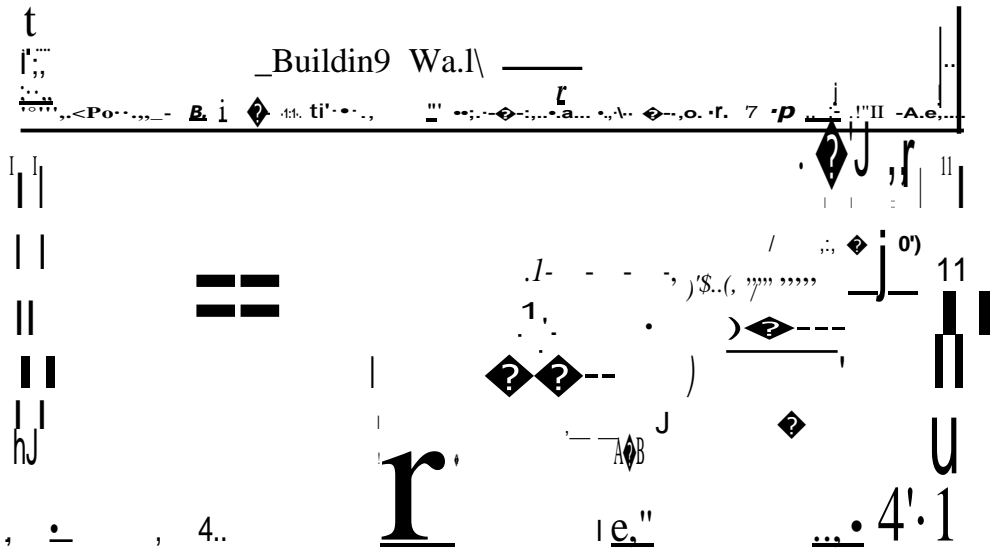
TEE SERVICE WELDED TRANSITION STEEL TO PLASTIC 1" C.P.S. STOCK •5207121121204
 TEE SERVICE WELDED TRANSITION STEEL TO PLASTIC 1 1/4" C.P.S. STOCK •52070121220

ISSUEO	CATE	AP,-AOVIEO	CITY PUBLIC SERVICE CONSTRUCTION STANOARO <OAS>	0 - S - 127 - 2 - 0
REVISEO				DRAWING DS-49

4.5

RIS... Am) PJ:GULATOR FOR 5,13oi3s "LT. METERS.

NOTE: FOR DIMENSIONS OF McTege R:FR -ro EXHISIT 8-1
 HJ THE EIA"NNJNG INSTRUCTIONS.



Available Sizes:

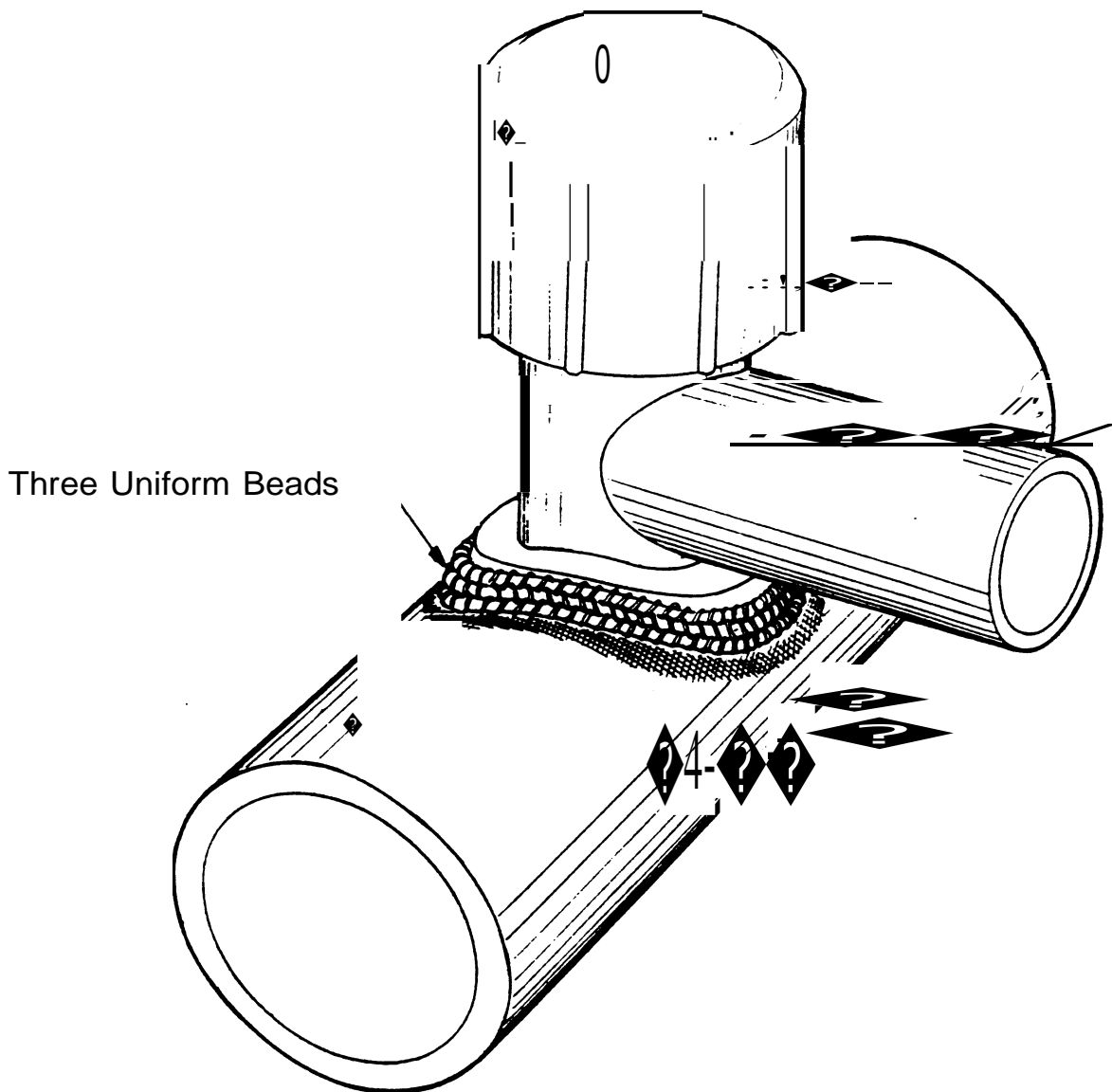
Service Size	Size of Meter Connection		
	1"	1 1/4"	1 1/2"
1"	•	•	•
1 1/4"	•	•	•
1 1/2"	•	•	•

ISSUED	DATE	APPROVED	CITY PUBLIC SERVICE BOARD	DRAWING DS-50
REVISED			CO-STRUC.W-N...STANDARD (GAS)	G-S-222-1-1

CPS
Design Standards
(Plastic Gas Pipe)
Exhibit GAS-4

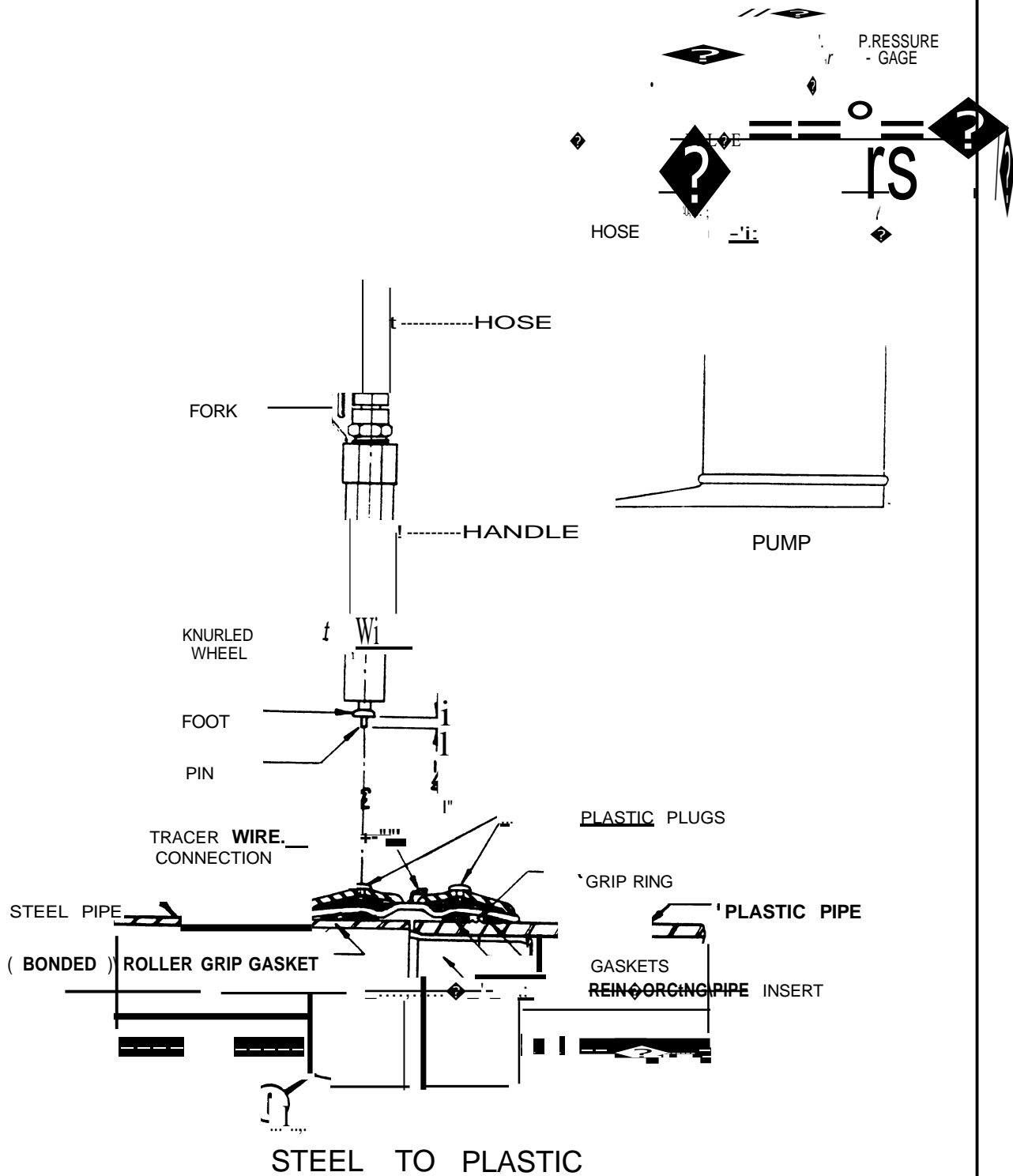
4.5

PLASTIC PIPE, TAPPING TEE



4.5

POSI-HOLD COUPLING INSTALLATION



ISSUED	DATE	APPROVED
REVIS	15/1	<i>[Signature]</i>

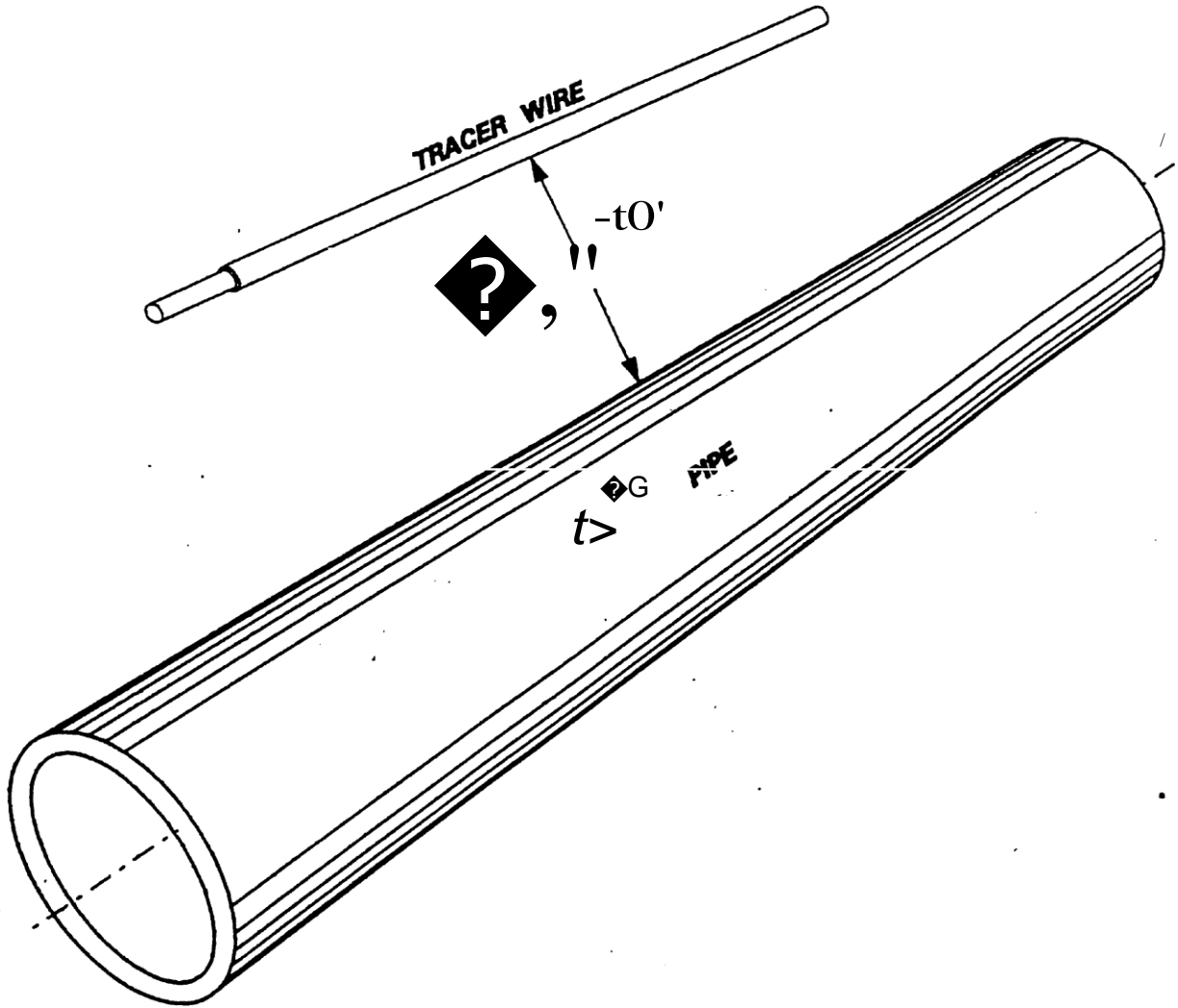
(GAS)

DRAWING DS-24

G-S-507-8-0

4.5

PLASTIC PIPE & TRACER WIRE

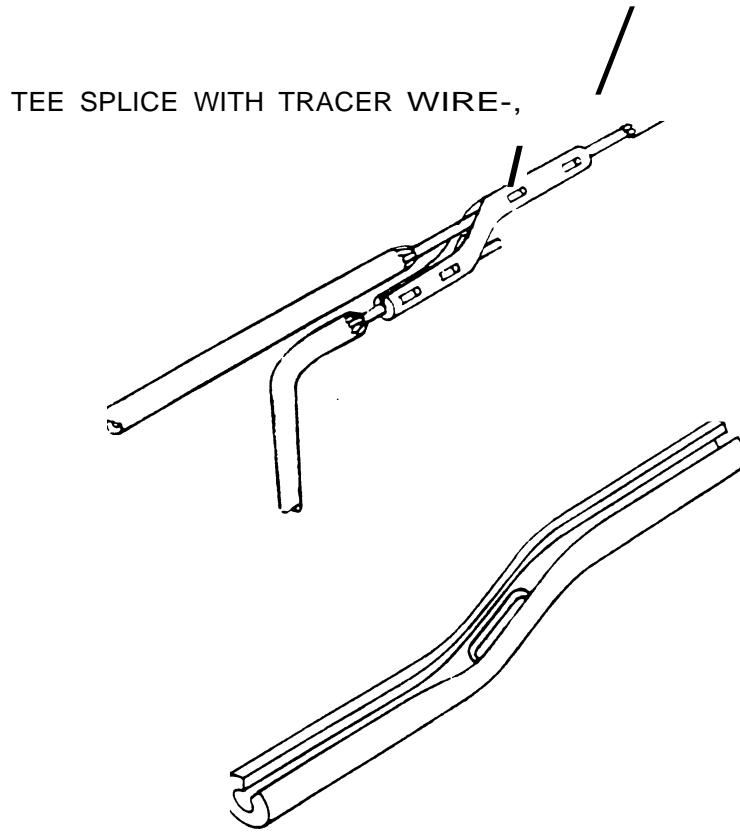


NOTE: THERE IS TO BE A TO T OF SEPARATION BETWEEN PIPE AND TRACER WIRE

ISSUED REVISED		CITY PUBLIC SERVICE CONSTRUCTION STANDARD	G-5-501-2-1 DATE: 11-0eo-82 12:47
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4.5

TEE SPLICE •



TEE SPLICE WITH TRACER WIRE-

TEE SPLICE

NOTE:

- 1. APPLY PIPELINE TAPE WRAP PRIMER (ALLOW TO DRY UNTIL TACKY)
- 2. USE PIPELINE TAPE WRAP ONLY (CIGARETTE WRAP)

	DUE	APPROVED
ISSUED	2/5/00	<i>A.R.S.</i>
REVISED		

CITY PUBLIC SERVICE BOARD
 CONSTRUCTION DRAWING (GAS)

DRAWING DS-27

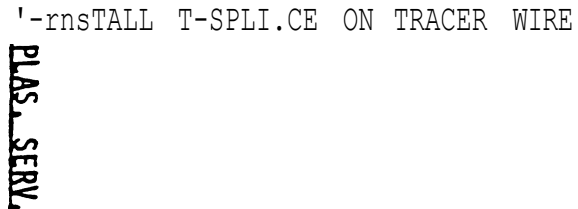
G - S - 541 - I - 0

DRAWING DS-28
 EXAMPLES FOR ANODELESS RISERS
 (Page 1 of 2)

4/1/03

CD ANODELESS TRACER WIRE ON PLASTIC MAIN - PLASTIC SERVICE WITH ANODELESS RISER

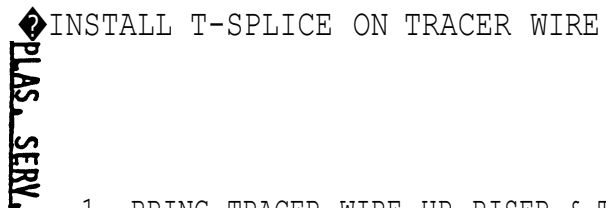
2P-AL



BRING TRACER WIRE UP RISER & TIE OFF

@ ANODELESS TRACER WIRE ON PLASTIC MAIN - PLASTIC SERVICE WITH STEEL TRANSITION RISER

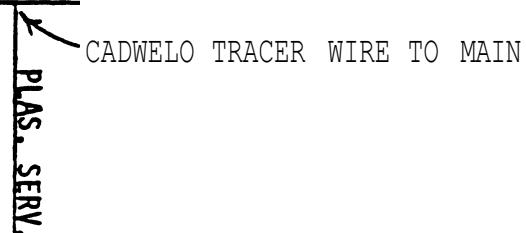
2P-AL



1. BRING TRACER WIRE UP RISER & TIE OFF
2. CAOWELD 1 LB. ANODE TO TRANSITION RISER

@ STEEL MAIN - PLASTIC SERVICE WITH ANODELESS RISER - ALSO RERUNS

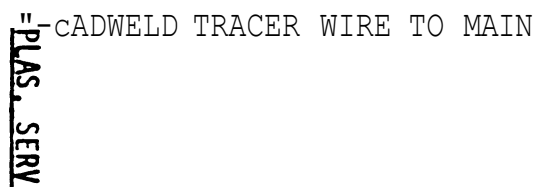
STL. MAIN



BRING TRACER WIRE UP RISER & TIE OFF

0 STEEL MAIN - PLASTIC SERVICE WITH STEEL TRANSITION RISER

STL. MAIN



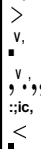
CADWELD TRACER WIRE TO TRANSITION RISER

0 PROTECTED TRACER WIRE ON PLASTIC MAIN - 2" OR 4" PLASTIC SERVICE WITH STEEL TRANSITION RISER

PLAS. MAIN



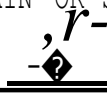
INSTALL T-SPLICE ON TRACER WIRE



CADWELD TRACER WIRE TO TRANSITION RISER

© ANODELESS TRACER WIRE ON PLASTIC MAIN OR SERVICE WITH STEEL REPAIR COUPLING

4P-AL



CONNECT 1 LB. ANODE TO COUPLING

0 PROTECTED TRACER WIRE ON PLASTIC MAIN OR SERVICE WITH STEEL REPAIR COUPLING

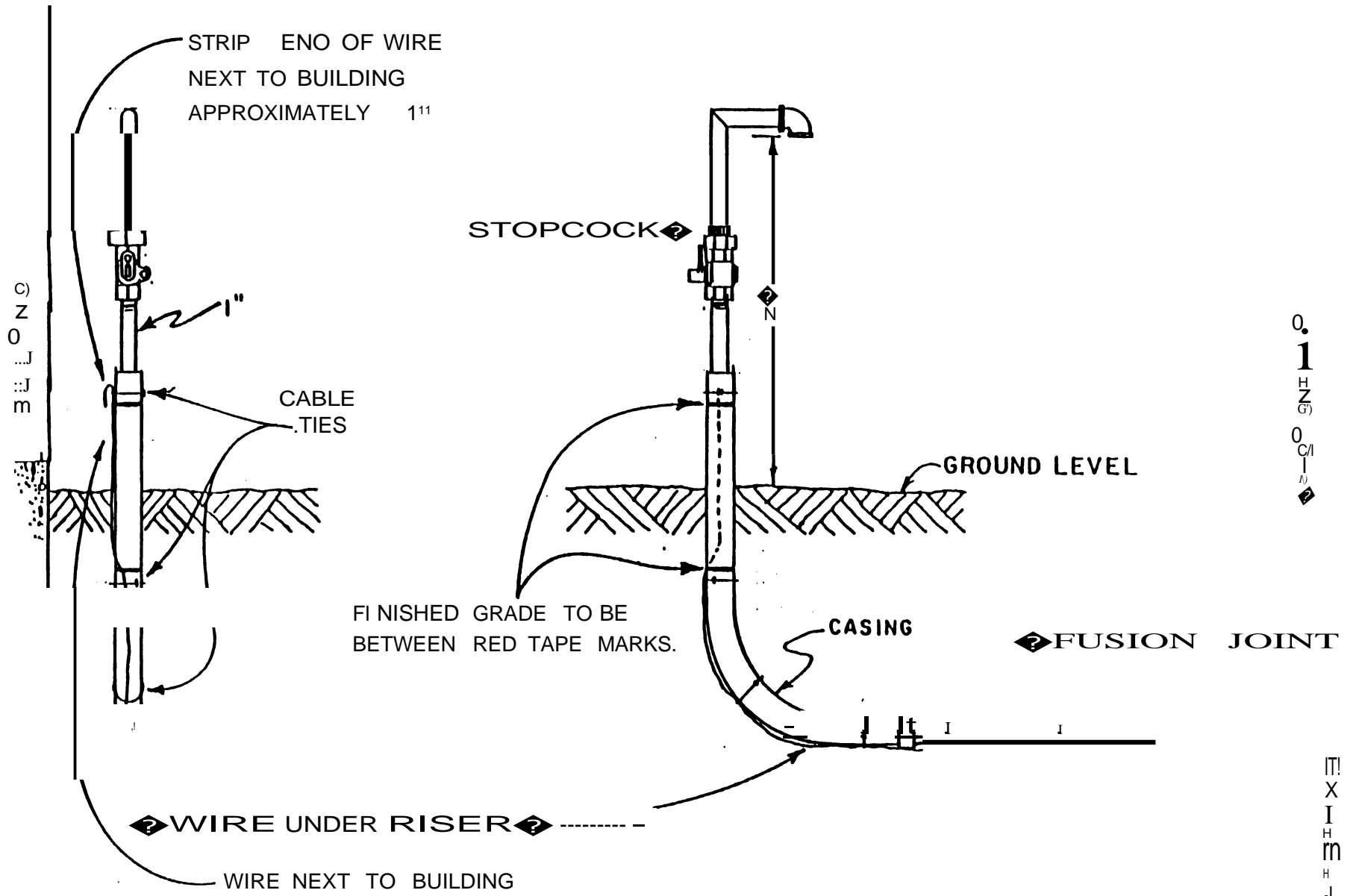
4P



L

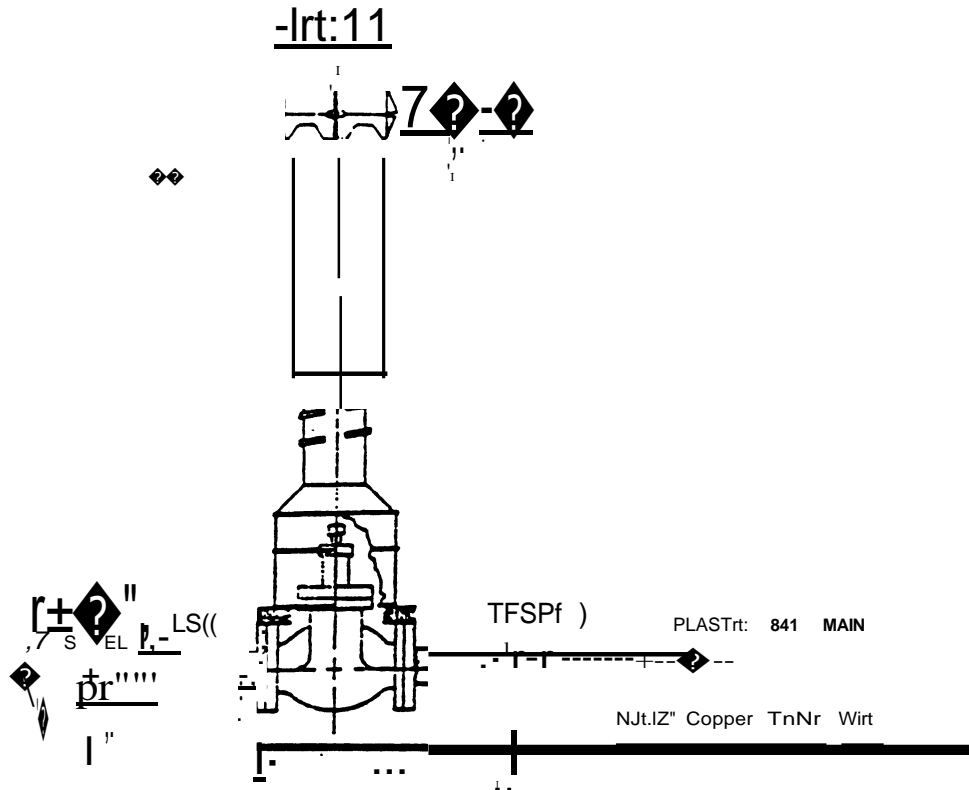
CONNECT COUPLING TO TRACER WIRE

NOTE - NEVER CADWELD TRACER WIRE TO NEW ANODELESS SERVICE RISER

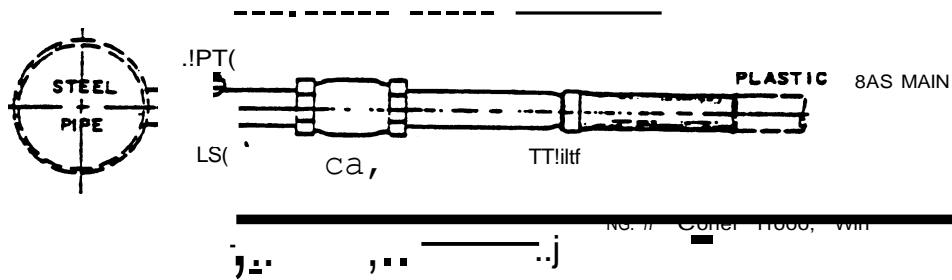


ANODE LESS RISER

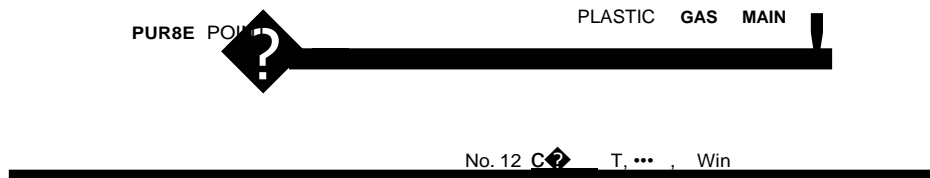
TERMINATION OF TRACER WIRE ON ANODELESS SYSTEMS



REMOVE 1" OF INSULATION AT END OF TRACER WIRE - LEAVE WIRE BARE
DO NOT LET WIRE TOUCH STEEL MAIN OR FITTINGS



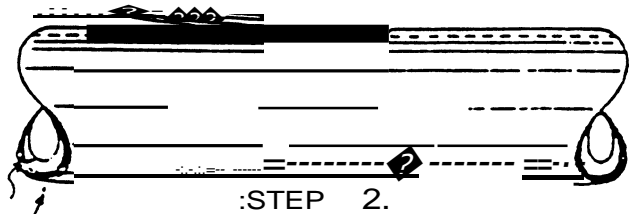
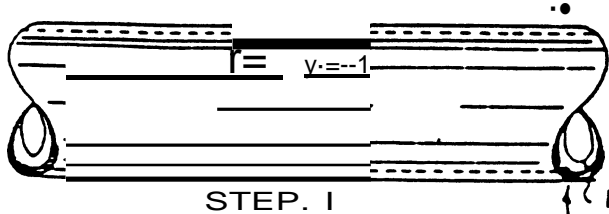
REMOVE 1" OF INSULATION AT END OF TRACER WIRE-LEAVE WIRE BARE
DO NOT LET WIRE TOUCH STEEL MAIN OR FITTINGS



REMOVE 1" OF INSULATION AT END OF TRACER WIRE - LEAVE WIRE BARE

Remove, a cut length of 0.1 in. long or, if pipe is 1/2 in. or more in diameter, 1-1/2 in. long. Clean end dry.

Strip 1/2 in. of insulation from wire and place copper sleeve on it. 10 end smaller wire.



STEP 1

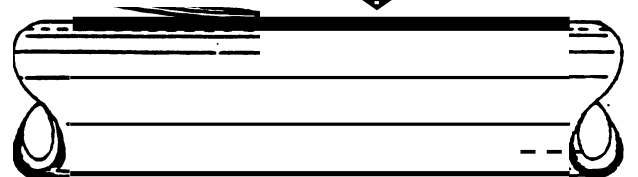
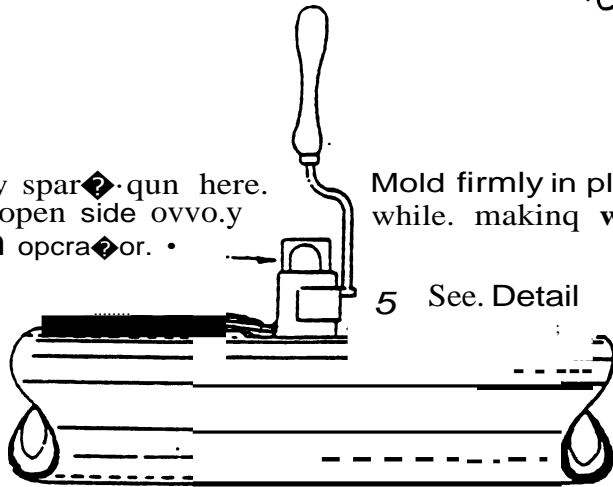
STEP 2

Pipe Coating

Apply spray gun here. Keep open side open.

Mold firmly in place while making weld.

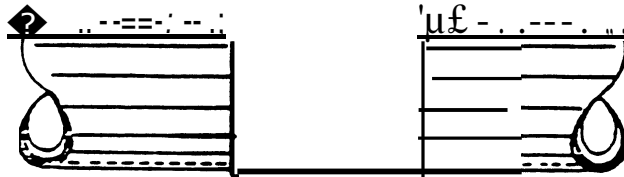
Remove sleeve with hammer and paint thoroughly with primer...



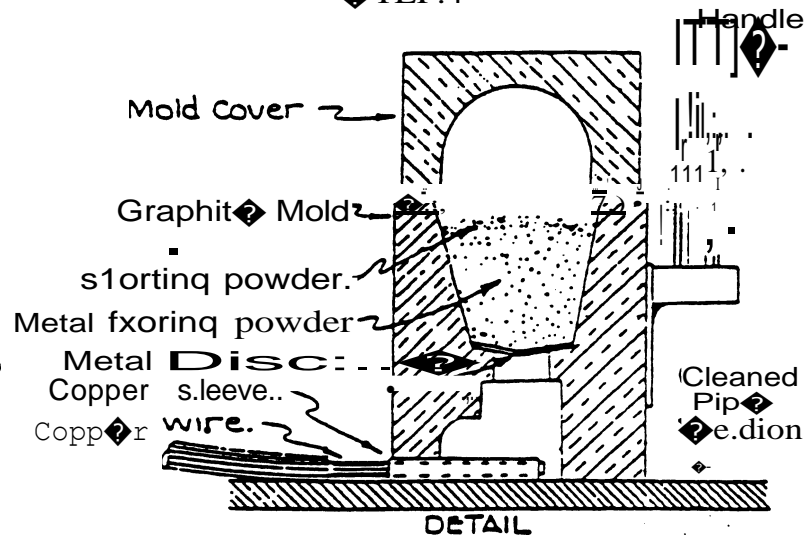
STEP 3

STEP 4

Remove pipe coating, 9 in. length. Cover entire weld.



STEP 5



IMPOATANT

1. REMOVE CAP OF CAWELL AND DUMP OF CONTAINERS FROM MOLD. THE CHANGE WILL NOT OCCUR WITHOUT THE FINISHING PROCESS.

Cadwell mold with sleeve for 1/2 in. and 5/8 in.

CITY PUBLIC SERVICE BOARD
AN ANTI-CORRUPTION PLAN
GAS DEPARTMENT

COPPER WIRE CONNECTION TO PIPING - USING CADWELL.

THE CAUSE OF THE MISTAKE IS THE POINT DRY AT ALL TIMES.

1. V. N. C. A. T. ,,, "!"-?- . . i u

INSTRUCTION SHEET - 7"?: TB-3 liLO!R

PREPARATION OF SURFACE

To obtain a good field, **surface** must be bright clean and dry.

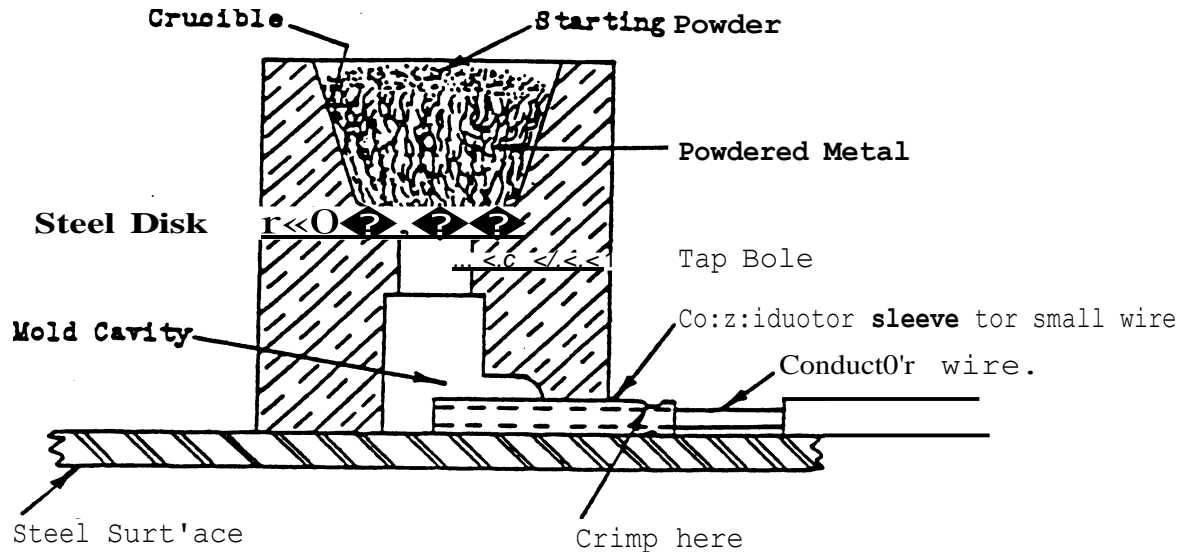
Steel surface should be ground or filed to remove all scale, rust, grease and dirt.

Galvanized steel must be cleaned with emery cloth to remove oxide.

PREPARATION OF WIRE:

Strip the insulation from the conductor and scrape until wire is bright and clean.

For #10 and smaller size, place the wire in a copper sleeve, end flush, and crimp the sleeve tightly to the wire at the insulation to provide additional mechanical strength at the weld.



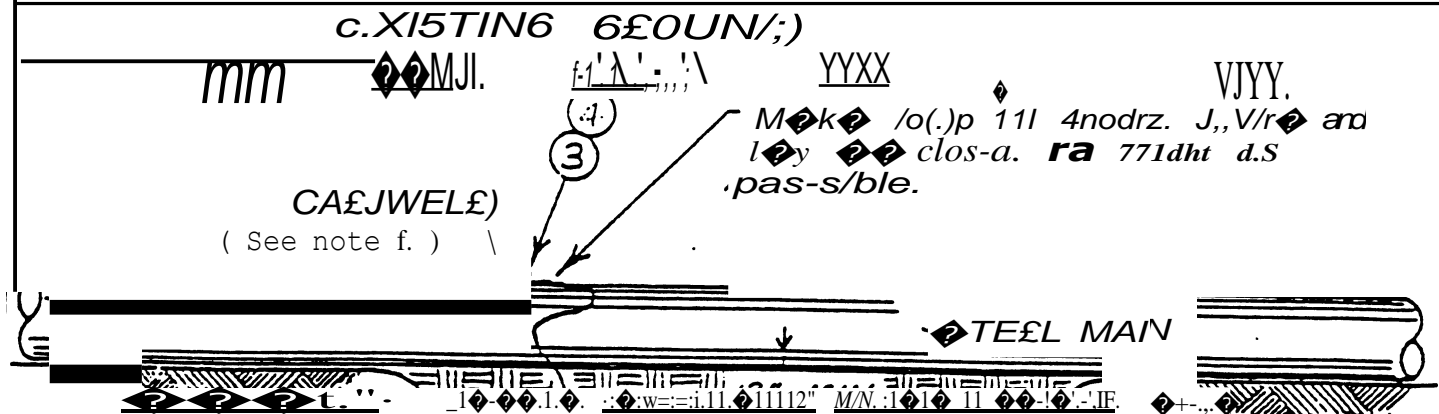
WELDING PROCEDURE:

- (1) PLACE WELDER OVER CLEAN STEEL SURFACE and insert **the wire** until it is under the CENTER at **the tap** hole.
- (2) COVER TAP HOLE WITH STEEL DISK.
- (3) DROP CARTRIDGE IN CRUCIBLE AND CLOSE COVER. (Tap bottom of crucible to be **sure starting** powder is emptied). Replace empty cartridge in box to keep remaining cartridges in an upright position.
- (4) HOLD OFF WELDER TO PREVENT LEAKS AND IGNITE FLYING FLINT GUN. Jerk gun away to prevent fouling. Should gun become fouled, soak in Spirit of ammonia.
- (5) DO NOT REMOVE WELDER UNTIL METAL HAS SOLIDIFIED.
- (6) ALL SLAG MUST BE CLEANED FROM MOLD BEFORE MAKING NEAT WELD.

Note: Wet or damp conditions produce porous welds. Mold can be dried out by firing a charge before making the desired field.

4.:

PACKAGED DES

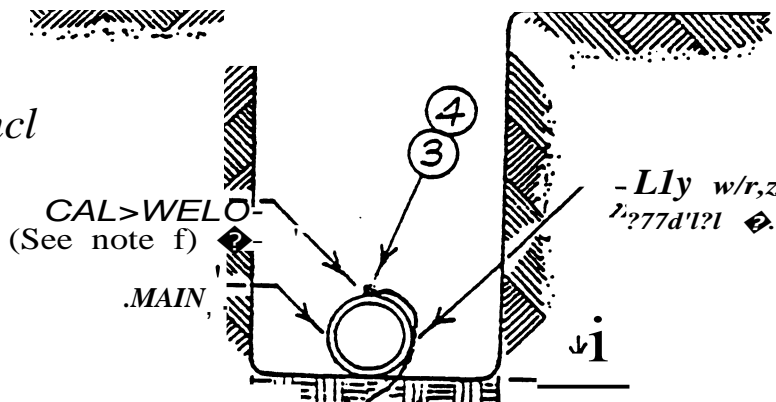


NORMAL PIP:

TRENCH .oePT.1-1 Pac.(:'£gtZdAno

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A.1"V0,0...L. 12 MIN.
AC.11 PACKING EXCAVATION
WITM QUALITY TOPSOIL
7 du:p.v
/.,9' t'£,;c /oc.at',Cm
u.' g,170c/Z

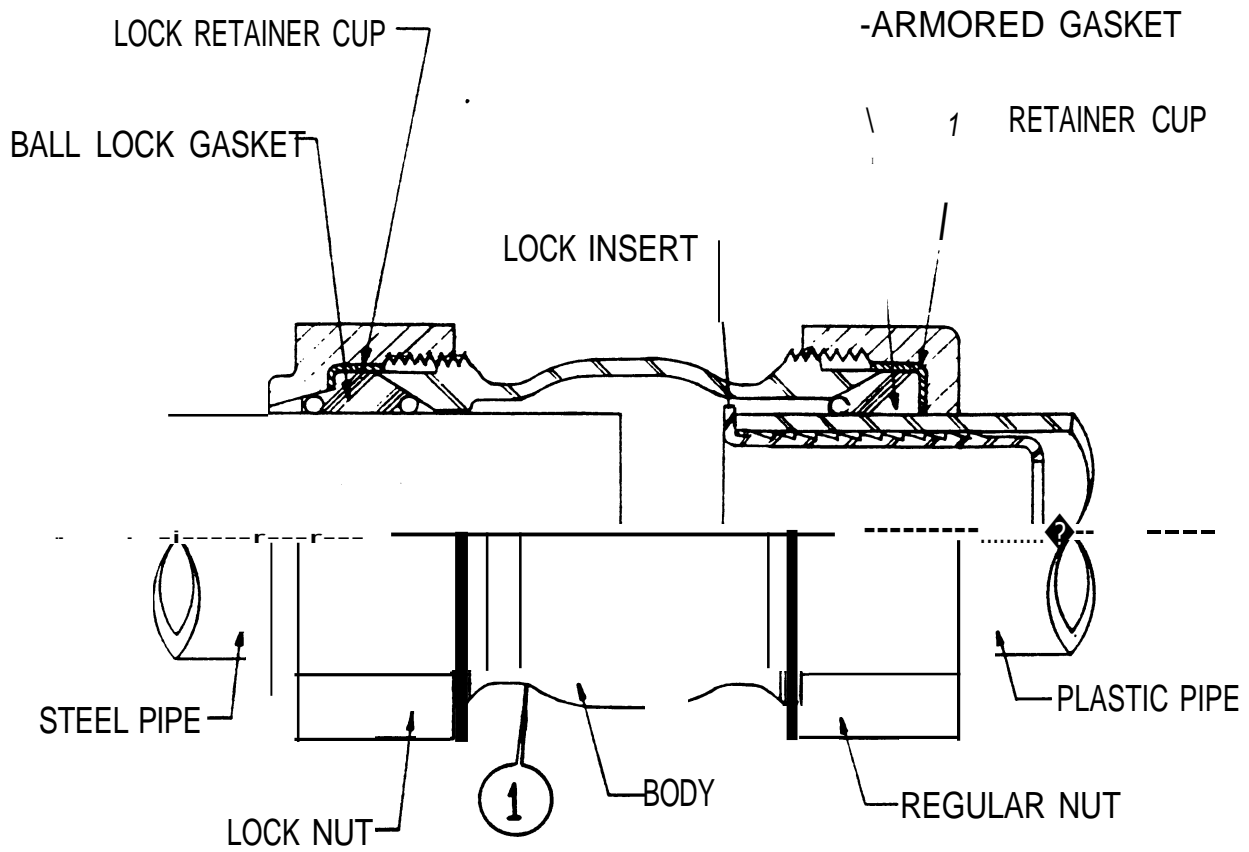
NOTES:

- a. radweld connt!ction to be primE!cl ind co.,ted careful_l_y.
- b. J.,ck,3i:;ed .,node should he covr.r!cl with fine soil cullL;linini. no roer:s£ c:lods. or f.:.Ind.
- c. £our S gallons of water over anode loc.ltion and c££p thoroughly.
- d. Provide test leads when specified. (See test lead standard)
- £ Anode specification sheet t.'ill be .attached to main order. ;1nd is co 'ba c'.ocpleted by the main construction foreoan..
- f. vihere pla£tic m£in £ installed in pla£e of steel, use tee splice to co£nect anode wire to tracer wire.

ISSUED	0££c:1 · A££ovED	CITY PUBLIC SERVICE BOARD	DRAWING DS-33
REVISED 11)-£-£	CONSTRUCTION STANDARD (GAS)	GS471-1-2

4.5

PLASTI- LOK TRANSITION COUPLING INSTALLED



STEEL TO PLASTIC

AVAILABLE SIZES: 1", 1 1/4", 2"

	DATE	APPROVED
ISSUED	9/81	GRS
REVISED		

CITY PUBLIC SERVICE BOARD
CONSTRUCTION DRAWING (GAS)

DRAWING DS-34
G - 5 - 507 - 4 - 0



CPS Energy - Covered Tasks Regulated by 49 CFR Part 192

Project OQ Covered Task Checklist

Project Name:	
Date:	
Work Request #:	
CPS Energy Project Manager:	
Contractor:	

1. Are OQ covered tasks identified on this project? Circle one: **YES** / **NO**

Project Manager

- a. If **NO**, attach this documentation completed up to this point to the project work package, WMIS Task 11100 "Accept Work Request for Construction".
- b. If **YES**, Project Manager will complete remaining portion of this form by identifying all covered tasks on this project that will be performed by either CPS Energy personnel or contractors and forward to contractor.
- c. Upon return of completed form from contractor, attach to the project work package, WMIS Task 11100 "Accept Work Request for Construction".

Contractor

- d. Contractor is to complete far right column identifying all covered tasks that they will have OQ'ed personnel available to perform and sign and date at end of form (last page).

Covered Task	To be Performed by CPS Energy	To Be Performed by Contractor	Contractor Qualified Personnel Available
Abandoning or deactivating pipeline facilities		X	
Backfilling (0981)		X	
Cathodic Protection Remediation/Install Anode (0031)		X	
Coating Application and Repair (0991, 1001, 1011)		X	
Conduct odor concentration tests (1211)	X		



EXHIBIT GAS-7

CPS Energy - Covered Tasks Regulated by 49 CFR Part 192

Project OQ Covered Task Checklist

Covered Task	To be Performed by CPS Energy	To Be Performed by Contractor	Contractor Qualified Personnel Available
Conducting leakage surveys (1261, 1271, 1281)	X		
Conducting Leakage Surveys- Aerial Survey (1281)	X		
Conducting Leakage Surveys- SSV Mobile Survey (1281)	X		
Connecting test lead wires to the pipeline (0051)		X	
Customer Meters and Regulators (1161,1171,1181,1191)	X		
Direct Examination Techniques (1421)	X		
Excavation (1321)		X	
General Pipeline Repairs (1051, 1071)	X		
Identify and mitigate areas of active corrosion (0171, 0181,0191)	X		
Inspect interference bonds, diodes & reverse current switches (0061)	X		
Inspect, Test and Maintain Sensing Devices (0221)	X		
Inspecting for atmospheric corrosion (0141)	X		
Inspecting for evidence of internal corrosion (0161)	X		
Inspecting Pipe Coating and Examining Exposed Pipe for External Corrosion (0151)	X		
Inspecting pipelines for third party damage (0201, 0211)	X		
Inspecting rectifiers or other impressed current power sources (0101, 0111)	X		
Inspection and testing of pipeline valves (0331)	X		
Inspection and testing of pressure regulation stations (0381, 0391, 0401)	X		



EXHIBIT GAS-7

CPS Energy - Covered Tasks Regulated by 49 CFR Part 192

Project OQ Covered Task Checklist

Covered Task	To be Performed by CPS Energy	To Be Performed by Contractor	Contractor Qualified Personnel Available
Inspection and testing of relief or pressure limiting devices (0411, 0421, 0431)	X		
Inspection of regulator vaults (1351)	X		
Install and Maintain Pipeline Markers (1301)		X	
Install Mechanical Clamps and Sleeves - Bolted (1041)	X		
Installation and Maintenance of Mechanical Electrical Connections (0041)	X		
Installation of Aboveground Pipe/Support and Anchors (0951,0961)	X		
Installation of Pipe (0861, 0871, 0881, 0901, 0911, 0921, 0941, 0971)		X	
Installation of Plastic Service by Insertion (0901,0921,0941)		X	
Investigating Inside Leak Complaints (1231)	X		
Investigating Outside Leak Complaints (1241)	X		
Joining of Pipe -- Flange Assembly(0731)	X		
Joining of Pipe -- Threaded Joints (0721)		X	
Joining PE Pipe by Electrofusion Coupling (0781)		X	
Joining PE Pipe by Electrofusion Sidewall (0781)		X	
Joining PE Pipe by Heat Fusion- Butt Fusion, Hydraulic Machine (0761)		X	
Joining PE Pipe by Heat Fusion- Butt Fusion, Manual (0751)		X	
Joining PE Pipe by Heat Fusion- Sidewall Fusion (0771)		X	
Joining PE Pipe by Mechanical Coupling, External Compression Ring (0711)		X	



EXHIBIT GAS-7

CPS Energy - Covered Tasks Regulated by 49 CFR Part 192

Project OQ Covered Task Checklist

Covered Task	To be Performed by CPS Energy	To Be Performed by Contractor	Contractor Qualified Personnel Available
Joining PE Pipe by Mechanical Coupling, Nut Follower & Bolt Types Coupling (0711)	X		
Joining Plastic Pipe by Solvent Cement (0671)	X		
Launching and/or Receiving Internal Devices (Pigs) for Lines In-Service (1641)		X	
Locating and Temporary Marking Pipelines (1291)	X		
Maintain and Adjust Rectifier (0111)	X		
NDT- Liquid Penetrant Testing (0611)	X		
NDT- Magnetic Particle Testing (0621)	X		
NDT- Radiographic Testing (0601)	X		
NDT- Ultrasonic Testing (0631)	X		
NRI(Notice of Required Inspection for excavation activities by third parties) (1331, 1341)	X		
Odorizing gas (1221)	X		
Operate Gas Pipeline - Local Facility Remote-Control Operations (1381)	X		
Operate Gas Pipeline - System Control Center Operations (1371)	X		
Operating Pipeline for Emergency Shutdown or Pressure Reduction Including Startup/Shutdown (0301,0311)	X		
Patrolling pipelines (1311)	X		
Pipeline pressure testing (0561, 0571, 0581)		X	
Purging of pipelines (1651)		X	
Squeeze Off Plastic Pipe (1141)		X	



EXHIBIT GAS-7

CPS Energy - Covered Tasks Regulated by 49 CFR Part 192

Project OQ Covered Task Checklist

Covered Task	To be Performed by CPS Energy	To Be Performed by Contractor	Contractor Qualified Personnel Available
Squeeze Off Steel Pipe (1151))		X	
Taking remedial action for atmospheric corrosion (1001)	X		
Tapping and Stopple Pipelines Under Pressure (1131)	X		
Tapping Pipelines Under Pressure (1081, 1101)	X		
Temporary Meter/Service Disconnect (1201)	X		
Testing cathodic protection system with pipe-to-soil reads (0001, 0021)	X		
Testing to determine cathodic protection current requirements (0091)	X		
Valve Maintenance/Repair (0321, 0341)	X		
Visually inspecting and approving welds (0811)	X		
Visually Inspecting Pipeline and Components for Defects (0641)	X		
Welding (0801)		X	

Contractor Name: _____

Signature: _____

Date: _____

Contractor shall provide evidence of operator qualification to support the information upon request. For any questions, please contact the CPS Energy Project Manager or OQ Administrator.

Version Date: 12/19/2019

Last Updated: 03/09/2023