ADDENDUM 4

SUBJECT: Sidney Brooks (City Base Land – S New Braunfels) 2022 Bond, (ID No.: 23-03916)
Date of Issue: Wednesday, July 9, 2025
Scheduled to Close: Friday, August 29, 2025

FROM: Jaime E. Contreras, Procurement Manager

DATE: August 21, 2025

THIS NOTICE SHALL SERVE AS ADDENDUM NO. IV –
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 in order to submit bid in Civcast. This addendum consists of the items and their associated attachments as listed below:

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

GENERAL INFORMATION

1. N/A

ADMINISTRATIVE CHANGES TO SOLICATION DOCUMENTS

1. Invitation for Bids – Bid Opening Date
    a. Current: Friday, August 29, 2025
    b. Revised: Tuesday, September 23, 2025
2. Invitation for Bids – Deadline for Questions Date
    a. Current: Thursday, August 14, 2025
    b. Revised: Thursday, August 28, 2025

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

QUESTIONS SUBMITTED ON CIVCAST

Question 1: E-Z Bel Construction is an approved contractor through CPS to perform the illumination required on this project. Please add to the COSA approved list.
Response: CPS provided the list of approved contractors included in this solicitation. Please reach out to CPS to confirm.

Question 2: Will CPS be providing the materials (poly pipe, tracer wire, valves, bypass components) for this project?
Response: CPS provides all gas components. Exceptions are as follows: Sand Bedding, flowable fill, concrete flatwork and steel reinforcement, asphalt and asphalt base, & select fill.

Question 3: Are there any compaction or revegetation requirements for the fill placed at the City dump site?
Response: Excess soils will be graded and spread as to even out the material over LF008. See Item SS 1070 in Spec Book as part of Addendum 03.

Question 4: Can concrete and HMA removed from the project be dumped at the City dump site?

Response: Asphalt is not allowed in the LF008 site. Should any asphalt be kept at CoSA's request, CoSA to provide appropriate location.

QUESTIONS SUBMITTED AT SITE-VISIT

N/A

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

Consultant's revisions listed below will be issued as an attachment to this addendum.

REVISIONS SUBMITTED TO BID FORM

1. Revised CPS GAS Item 1014026 – PIPE PLASTIC 6" IPS SDR 11 WITH TRACER WIRE – 2401 LF TO 2547 LF.

2. Revised CPS GAS Item 1014022 – PIPE PLASTIC 4" IPS SDR 11 WITH TRACER WIRE – 212 LF TO 253 LF.
3. Revised CPS GAS Item 1013959 – PIPE PLASTIC 2" IPS SDR 11 WITH TRACER WIRE – 237 LF TO 133 LF.
4. Removed SAWS Reclaimed Item 7023-7023 – REMOVE EXISTING WATER LINE (2 IN) – 1048 LF.
5. Removed SAWS Reclaimed Item 7023-XXXX – REMOVE EXISTING WATER LINE (4 IN) – 228 LF.

REVISIONS SUBMITTED TO PLANS

1. Sheet 293 SAWS Reclaimed Water Index of Sheets and Summary of Quantities:
    a. Revised Quantity Summary as follows:
        i. Removed Item 7023-7023 – REMOVE EXISTING WATER LINE (2 IN) – 1048 LF
        ii. Removed Item 7023-XXXX – REMOVE EXISTING WATER LINE (4 IN) – 228 LF
2. Sheet 294 SAWS Reclaimed Water General Notes Sheet 1:
    a. Included note 21 that states “Contractor to abandon existing lines in place. Any pipe that conflicts with proposed construction is to be removed. Abandonment and removal of conflicting pipe will be NSPI.”
    b. Included notes that did not appear graphically in previous submittal.
    c. Renumbered notes due to inclusion of Note 21.
3. Sheet 295 SAWS Reclaimed Water General Notes Sheet 1:
    a. Renumbered notes due to inclusion of Note 21.
4. Sheet 296 SAWS Reclaimed Water Project Layout:
    a. Revised callouts stating “Remove” to state “Abandon” instead.
5. Sheet 300 SAWS Reclaimed Water Plan Sheet 4:
    a. Revised Quantity Box Removing Item 7023-7023 REMOVING EXISTING WATER LINE (2 IN) – 250 LF
    b. Revised callouts stating “Remove” to state “Abandon” instead.
6. Sheet 301 SAWS Reclaimed Water Plan Sheet 5:
    a. Revised Quantity Box Removing Item 7023-7023 REMOVING EXISTING WATER LINE (2 IN) – 451 LF
    b. Revised callouts stating “Remove” to state “Abandon” instead.
7. Sheet 302 SAWS Reclaimed Water Plan Sheet 6:
    a. Revised Quantity Box Removing Item 7023-7023 REMOVING EXISTING WATER LINE (2 IN) – 347 LF
    b. Revised Quantity Box Removing Item 7023-XXXX – REMOVE EXISTING WATER LINE (4 IN) – 95 LF
    c. Revised callouts stating “Remove” to state “Abandon” instead.
8. Sheet 303 SAWS Reclaimed Water Plan Sheet 7:
    a. Revised Quantity Box Removing Item 7023-XXXX – REMOVE EXISTING WATER LINE (4 IN) – 133 LF
    b. Revised callouts stating “Remove” to state “Abandon” instead.
9. Sheet 328 CPS Gas Plans Title Sheet 1:
    a. Revised CPS GAS Item 1014026 – PIPE PLASTIC 6" IPS SDR 11 WITH TRACER WIRE – 2401 LF TO 2547 LF
    b. Revised CPS GAS Item 1014022 – PIPE PLASTIC 4" IPS SDR 11 WITH TRACER WIRE – 287 LF TO 253 LF
    c. Revised CPS GAS Item 1013959 – PIPE PLASTIC 2" IPS SDR 11 WITH TRACER WIRE – 162 LF TO 133 LF

d. Added Abandonment of 6” Plastic Pipe – 106 LF

10. Sheet 332 CPS Gas Plans Summary Sheet 5:
    a. Removed various segment runs and revised quantities to reflect updated quantities.
11. Sheet 333 CPS Gas Plans Summary Sheet 6:
    a. Removed various segment runs and revised quantities to reflect updated quantities.
12. Sheet 334 CPS Gas Plans Sheet 7:
    a. Revised plan sheet. Tie-in location was shifted further west to provide clearance for proposed inlet.
    b. Revised Quantities to reflect revised design.
13. Sheet 335 CPS Gas Plans Sheet 8:
    a. Revised plan sheet. Adjusted tie-in to account for planned tree removal.
    b. Revised Quantities to reflect revised design.
14. Sheet 336 CPS Gas Plans Sheet 9:
    a. Revised plan sheet. Gas Alignment was shifted further north to provide additional clearance to proposed trees.
    b. Revised Quantities to reflect revised design.
15. Sheet 337 CPS Gas Plans Sheet 10:
    a. Revised plan sheet. Gas Alignment was shifted further north to provide additional clearance to proposed trees.
    b. Revised Quantities to reflect revised design.
16. Sheet 338 CPS Gas Plans Sheet 11:
    a. Revised plan sheet. Gas Alignment was shifted further north to provide additional clearance to proposed trees.
    b. Revised Quantities to reflect revised design.
17. Sheet 339 CPS Gas Plans Sheet 12:
    a. Omitted Barlow Equation for Plastic Pipe.

REVISIONS SUBMITTED TO SPECIFICATIONS

1. N/A

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
Procurement Division, Finance Department

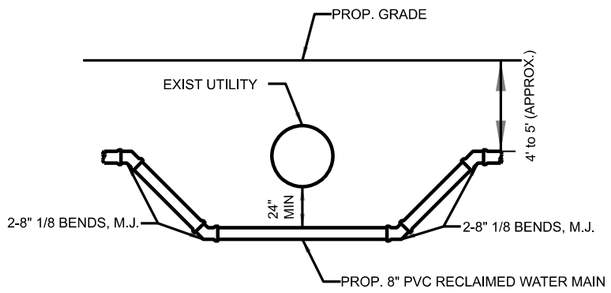
INDEX OF SHEETS:

SUMMARY OF QUANTITIES:

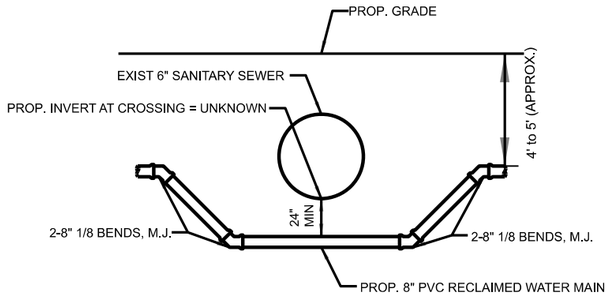
Item No.	Description	Unit	Sheet No. 6	Sheet No. 7	Sheet No. 8	Sheet No. 9	Sheet No. 10	Sheet No. 11	Sheet No. 12	Sheet No. 13	Sheet No. 14	Total
100	Mobilization (Maximum 10% of Subtotal A)	LS										0
101	Preparing Right of Way (Maximum 5% of Subtotal A)	LS										0
550	Trench Excavation Safety Protection	LF				258	458	492	311			1499
818	2" C900 PVC (CL235) Waterline	LF				10						10
818	8" C900 PVC (CL235) Waterline	LF				248	458	492	291			1489
828	Gate Valves	EA				3		1	3			7
836	Pipe Fittings, all sizes and types	TON				2	1	2	1			6
840	2" Water Tie-Ins	EA				1						1
840	4" Water Tie-Ins	EA						1	1			2
841	Hydrostatic Testing	EA				1		1				2
1015	Service Line Break/Leak Repairs	EA				1		1	1			3
1020	Water Main break/Leak Repairs	EA							1			1

02

CROSSING DETAILS:



1 TYPICAL UTILITY CROSSING DETAIL
NOT TO SCALE



2 SANITARY SEWER CROSSING @ 121+83.45
NOT TO SCALE

Developer's Name: CITY OF SAN ANTONIO
Address: 100 W HOUSTON ST
City: SAN ANTONIO State: TEXAS ZIP: TEXAS
Phone # 210-207-5734 FAX # NA
SAWS Block Map # 176550, 178550 Total EDU's NA Total Acreage NA
Total Linear Footage of Pipe: 1,489 LF 8" PVC, 10 LF 2" PVC Plat No. NA
Number of Lots NA SAWS JOB NO. 24-1186

STATE OF TEXAS
NIKKI CHRISTINE BROM
137308
LICENSED
PROFESSIONAL ENGINEER

MARCH 31, 2025

RS&H, Inc.
13750 San Pedro Ave, Suite 300
San Antonio, Texas 78232
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® Texas Registration No. F-3401
www.rsandh.com

No.	Revision	Drawn	Approved	Date
2	Addendum 04			8/19/2025
1	Addendum 03			8/8/2025

REVISIONS

INDEX OF SHEETS & SUMMARY OF QUANTITIES

DEVELOPER: San Antonio Water Systems

CONT. | BUDGET PROJ. #

SUBMITTED

APPROVED

MAP No. 176550, 178550 | SHEET 2 OF 14

SECT. No.

DR. ZHA | CK. NCB | JOB No.

8/18/2025 8:08:29 AM
Dwz://rsandh-pw.bentley.com:rsandh-pw-01/Documents/Transportation/Projects/10230710000-COSA-2022-Bond-Sidney-Brooks-Drive/03.00 Project Execution/03.04 Design/Irrigation/SID-S-REC-PLAN.dgn

SAWS STANDARD GENERAL CONSTRUCTION NOTES

GENERAL CONSTRUCTION

1. All materials and construction procedures within the scope of this contract shall be approved by the San Antonio Water System (SAWS) and comply with the Plans, Specifications, General Conditions and with the following as applicable:

   A. Current Texas Administrative Code (TAC) Title 30 Part 1 Chapter 217, TAC Title 30 Part 1 Chapter 290, and TAC Title 30 Part 1 Chapter 210.
   B. Current TXDOT "Standard Specifications for Construction of Highways, Streets and Drainage."
   C. Current "San Antonio Water System Standard Specifications for Water and Sanitary Sewer Construction."
   D. Current City of San Antonio "Standard Specifications for Construction."
   E. Current City of San Antonio "Utility Excavation Criteria Manual" (UECM).

2. The Contractor shall obtain SAWS Standard Details from SAWS website, https://apps.saws.org/business_center/specs/constspecs/ unless otherwise noted within design plans.

3. The Contractor is to notify and make arrangements with the SAWS Construction Inspection Division at 210-233-3500 (during regular SAWS working hours), and provide notification procedures the Contractor will use to notify affected home residents and/or property owners two (2) weeks prior to excavation. Outside of regular SAWS working hours the SAWS EOC should be contacted at 210-704-7297.

4. If necessary, Contractor will coordinate use of SAWS premises at no additional cost to SAWS. Such efforts include, but are not limited to, obtaining security identification badges required for access to SAWS facilities.

5. Locations and depths of existing utilities and service laterals shown on the plans are understood to be approximate. Actual locations and depths must be field verified by the Contractor prior to construction. It shall be the Contractor's responsibility to locate utility service lines as required for construction and to protect them during construction at no cost to SAWS.

6. The Contractor shall verify the exact location of underground utilities and drainage structures prior to construction whether shown on plans or not. As-builts for SAWS infrastructure can be obtained at website below. Contractor shall coordinate physical locates for SAWS infrastructure through the SAWS Inspector. Please allow up to 7 business days for locates requesting pipe location markers on SAWS infrastructure. The following contact information are supplied for verification purposes:

   San Antonio Water System:
   Request as-builts: https://www.saws.org/service/locates-service/
   COSA Drainage 210-206-8433
   COSA Traffic Signal Operations 210-207-7720
   Texas State Wide One Call Locator 1-800-545-6005 or 811

7. The Contractor shall comply with City of San Antonio or other governing Municipality's tree ordinances when excavating near trees.

8. Any work completed without prior written authorization which is not included in these plans and specifications will not be compensated by the San Antonio Water System.

9. Holiday Work: Contractors will not be allowed to perform SAWS work on SAWS recognized holidays.

   Weekend Work: Contractors are required to submit request to the SAWS Inspection Construction department by 12:00pm on the Wednesday prior to the weekend being requested. Request should be sent to constworkreq@saws.org.

   Any and all SAWS utility work installed without weekend approval will be subject to be uncovered for proper inspection at no cost to SAWS.

10. PRE CON SITE VIDEO: Before the start of any construction. The site must be video recorded by the contractor with one copy submitted to SAWS Inspections. A pre-site video will provide accurate documentation of the existing conditions (NSPI).

11. POWER POLE BRACING: Contractors should be advised that there are existing overhead utility poles along the project corridor. Contractors should further be advised that if the distance from the outside face of a utility trench to the face of a utility pole is less than 5 feet, said utility pole is subject to bracing, based on a determination made by utility pole owner. Costs incurred by contractor for bracing of these utility poles is subsidiary to that respective utility company's work. It is advisable for the contractor to review the construction documents and visit the construction site to determine potential impacts.

12. CONSTRUCTION SEQUENCING: It is the Contractor's sole responsibility to schedule sequencing for removal and installation of existing and proposed SAWS utilities in conjunction with general project construction. Sequence of construction activities shall be considered in order to minimize the extent and duration of disturbances.

13. Contractor shall comply with applicable regulations including, but not limited to, those overseen by the U.S. Occupational Safety and Health Administration (OSHA). OSHA information and related materials may be obtained at https://www.osha.gov/ or at the OSHA San Antonio Office located at Fountainhead Tower, Suite 605 8200 W. Interstate 10 San Antonio, TX 78230 which is also reachable by phone at (210) 472-5040.

14. TRENCH EXCAVATION SAFETY PROTECTION: Contractor and/or Contractor's independently retained employee or structural design/geotechnical/safety/equipment consultant, if any, shall review these plans and available geotechnical information and the anticipated installation site(s) within the project work areas in order to implement Contractor's trench excavation safety protection systems, programs and/or procedures. The Contractor's implementation of the systems, programs and/or procedures shall provide for adequate trench excavation safety protection that complies with, as a minimum, OSHA standards for trench excavations. Specifically, Contractor and/or Contractor's independently retained employee or safety consultant shall implement a trench safety program in accordance with OSHA standards governing the presence and activities of individuals working in and around trench excavation.

RECLAIMED WATER:

15. Prior to tie-ins, any shutdowns of existing mains of any size must be coordinated with the SAWS Inspection and/or SAWS Production groups at least twenty-five (25) calendar days or more in advance of the shutdown. The Contractor must also provide a sequence of work as related to the tie-ins; this is at no additional cost to SAWS or the project and it is the responsibility of the Contractor to sequence the work accordingly.
    SAWS Production Control Center 210-233-2016

16. Asbestos Cement (AC) pipe, also known as transit pipe which is known to contain asbestos-containing material (ACM), may be located within the project limits. Special waste management procedures and health and safety requirements will be applicable when removal and/or disturbance of this pipe occurs. Payment for such work is to be made under Item No. 3000, "Handling Asbestos Cement Pipe".

    AC pipe removed on construction projects for tie-in(s) should be in length of 26 linear feet (LF). Lengths of 13 LF should be removed where AC pipe is being removed and crossing pipes, conduits, or boxes.

17. VALVE REMOVAL: Where the contractor is to abandon a water main, the control valve located on the abandoning branch will be removed and replaced with a cap/plug. (NSPI)

18. DIVISION VALVES: Division Valves shown on plans or not shown on plans but found in the field shall only be operated by SAWS Distribution and Collection staff and only with prior written approval of the SAWS Director of Production and Operations and proper coordination with all SAWS departments. Contractor shall provide written notification to the inspector a minimum of twenty-five (25) calendar days in advance to start the coordination process and will be informed by the Inspector when the division valve will be operated by the SAWS Distribution and Collection staff. The Division Valve can only be operated by SAWS Distribution and Collection staff member not the inspector or the contractor. Operation of a Division Valve without the express prior written approval of the SAWS Distribution and Collection staff will constitute a material breach of any written SAWS contract or permit in addition to subjecting the Contractor to liability for any and all fines, fees, or other damages, direct or consequential, that may arise from or be caused by the operation of the valve without prior written permission. Please be informed that the approval of the operation or opening or closing of a division valve can take several weeks for approval. Division Valves will also have a valve lid labeled Division Valve and a locking mechanism installed with a key. The lock and key mechanism will be paid for by the contractor but will be installed by SAWS Distribution and Collection staff.

GENERAL CONSTRUCTION NOTES

19. All fittings and appurtenances not identified by a specific pay item shall be included in the bid price for the pipeline.

20. The Contractor shall protect existing reclaimed water infrastructure until abandoned.

21. Contractor to abandon existing lines in place. Any pipe that conflicts with proposed construction is to be removed. Abandonment and removal of conflicting pipe will be NSPI. 02

22. All limits of work outside of the project scope or beyond what is considered incidental to normal utility construction will be addressed by the SAWS Inspector. All communication from SAWS will be coordinated through the SAWS Inspector. SAWS Inspector will also determine if additional compensation is warranted if limits exceed incidentals.

23. Contractor is responsible for maintaining and protecting the integrity of power poles and guy wires during construction (NSPI).

24. Contractor shall protect and/or repair (if damaged) any existing water/sewer service laterals and irrigation shown or not shown (NSPI).

25. Contractor shall maintain vehicular access through all driveways for emergency access.

26. Contractor to protect existing signs that are not specifically called out on the plans as remove and replace (NSPI). Provide temporary signs and salvage and replace signs that interfere with construction of reclaimed water mains and services. (NSPI).

27. SAWS shall machine chlorinate new water mains, if the water main length is greater than 800 feet. Contractor shall notify SAWS one week prior to commencing chlorination.

28. Contractor shall chlorinate new mains with "HTH", if water main length is 800 feet or less.

29. All water mains shall pass pressure testing in accordance with the San Antonio Water System Standard Specifications for Water and Sanitary Sewer Construction. All air release valves shall be installed and operational prior to filling and testing pipelines.

30. A copy of all testing reports shall be forwarded to the San Antonio Water System Construction Inspections Division.

31. There shall be no blasting allowed on this project.

32. Groundwater and surface water management are the sole responsibility of the Contractor.

33. Contractor shall notify the SAWS Inspect and each property owner 48 hours in advance of coming onto owner's property to begin construction and repeat as required to keep property owner's property to and repeat as required to keep property owners informed and aware of ongoing activity as required and requested.

34. All excavation is unclassified. No extra payments will be made to the Contractor an account of rock, mud, muck, gravel, water, or other stable or unstable materials or conditions encountered. Contractor shall make subsurface investigations as deemed necessary prior to bidding the work to account for these situations and bid accordingly. No additional payment will be made for rock excavation.

35. All pipe and backfill material such as sand, gravel, dirt, etc., not used by the end of each workday shall be removed at the end of each workday.

36. Contractor shall sweep roadways at the end of each workday as per SAWS standards.

37. At end of each workday, Contractor shall backfill and compact all open trenches and install all-weather surface or cover all open trenches with steel plates that are installed flush with the existing pavement.

38. The Contractor shall limit work activities to existing rights-of-way and SAWS easements. No provisions have been made for work activities for storage of materials and/or equipment on private property. Prior to utilizing other property on the project for any purpose, the Contractor shall obtain from current landowner and tenant (if applicable), written approval for all activities that will be involved on said properties and Contractor shall provide copies of all agreements to SAWS. Contractor shall arrange for a disposal site outside the project right-of-way and provide copies of all agreements to SAWS.

39. Contractor shall not store any pipe or equipment within the right-of-way unless authorize by City of San Antonio Right-of-Way Department. Contractor shall not store any excavated or backfill material within the right-of-way. All excavated or backfill material must be removed from the project site at the end of each work day.

40. Unless noted otherwise, Contractor shall be responsible for any repair of any damage to all property including existing utilities, landscaping, fencing, and roads appurtenances (signs, curbs, drains, culverts, pavement, concrete aprons, traffic signals, sidewalks, driveways, etc.) which is damaged in the performance of this contract by the Contractor, his agents, employees, subcontractors, or their employees. Damaged property and utilities shall be restored to their original condition or better at the Contractor's expense.

41. Contractor shall dispose of all excess material and wastes from this project at their own expense. Any illegal dumped debris or rock boulders that are obstructing construction work shall be disposed by Contractor in legal manner. (NPSI).

SAWS TIE-IN NOTES, SHUTDOWN NOTE, AND SEQUENCING NOTES

42. The contractor shall become familiar with SAWS' requirement for water main shutdowns, as discussed herein. The contractor shall be aware that water mains within the project limits are extremely critical to the area and shutdowns, extending beyond what is specified, pose a public safety risk.

43. Work shall be executed in such familiar that the existing SAWS infrastructure may be kept in continuous operation or readiness except for scheduled shutdowns. Existing SAWS infrastructure shall be kept in operation specifically [permitted in the specifications or approved by SAWS. Existing water mains are to remain active until proposed mains are constructed, tested, and approved by SAWS.

44. The contractor shall locate and verify all tie-ins, services, and crossings prior to construction. Existing water service lines crossing proposed construction to be located and any temporary measures required to maintain service during construction shall be identified prior to commencing work (NSPI).

45. The contractor shall coordinate with business affected by shutdowns at least twenty-five (25) calendar days prior to shutdowns taking place. For locations where fire protection may be impacted, the contractor shall ensure continuous fire protection is provided during tie-ins. Close coordination with the fore marshal shall take place prior to any shutdowns impacting fire protection.

46. The contractor shall schedule shutdowns with the SAWS inspector at least tweny-five (25) calendar days in advance. Shutdowns shall be performed at off-peak hours and, in some cases (if specified in the plans and specifications), is recommended during off-peak season (November-March). There will be no additional compensation for work performed during off-peak hours.

47. SAWS reserves the right to cancel scheduled shutdowns, if conditions warrant, at no additional expense to SAWS. The intent is not to cancel scheduled shutdowns, however, water mains within project limits are extremely critical to maintain water service in the area, and unforeseen conditions may warrant shutdowns to be rescheduled.

48. The following list is a list for shutdown planning and coordination procedures. It is to be used as a guide to prepare the required shutdown and sequencing schedule:

A. The contractor shall submit a plan consisting of a construction sequence, time schedule, details of labor, equipment, material available, dewatering plan, temporary water mains, and contingency plans for work to be performed during each shutdown, to SAWS for approval. The plan shall demonstrate the contractor's ability to meet the time limitations. Meetings may be required and will be requested at SAWS' or the contractors request to discuss shutdown plans, construction scheduling during shutdowns, and contingency plans.

B. Simultaneous shutdowns of more than one facility, except as specifically indicated, will not be permitted.

C. All equipment and supplies required to complete the work during each shutdown period shall be on site before any facilities are taken out of service.

D. The contractor shall make all preparations at the tie-in locations prior to shutdowns occurring in order to minimize the length of the shutdowns.

E. The contractor shall have an additional crew on standby for each tie-in specified in the notes/specs at no additional expense to SAWS.

F. Operation of all existing butterfly valves and gate valves, including division valves, required for completion of the work shall be performed by SAWS.

G. Temporary water mains, if specified in the construction documents, shall be installed, tested, and approved by the SAWS inspector prior to shutdowns taking place.

H. If the work intended to be done during shutdown periods is not done satisfactorily, or as planned, or within the time required or approved by SAWS, SAWS may order the contractor to place the facility back in service to be done with other forces. If the work is done with other forces, the owner's costs will be deducted from the amounts due to the contractor. In no case shall SAWS be required to make additional payments for overtime work or redoing the work due to contractor's failure to complete the work in the allotted time.

02

Developer's Name: CITY OF SAN ANTONIO

Address: 100 W HOUSTON ST

City: SAN ANTONIO State: TEXAS ZIP: TEXAS

Phone # 210-207-5734 FAX # NA

SAWS Block Map # 176550, 178550 Total EDU's NA Total Acreage NA

Total Linear Footage of Pipe: 1,489 LF 8" PVC, 10 LF 2" PVC Plat No. NA

Number of Lots NA SAWS JOB NO. 24-1186

STATE OF TEXAS
NIKKI CHRISTINE BROM
137308
LICENSED
PROFESSIONAL ENGINEER

MARCH 31, 2025

RS&H
RS&H, Inc.
13750 San Pedro Ave, Suite 300
San Antonio, Texas 78232
210-224-2800 FAX 210-545-3103
Texas Registration No. F-3401
www.rsandh.com

No.	Revision	Drawn	Approved	Date
2	Addendum 04			8/19/2025
1	Addendum 03			8/8/2025

REVISIONS

RECLAIMED WATER GENERAL NOTES

DEVELOPER: San Antonio Water Systems

CONT. | BUDGET PROJ. #

SUBMITTED

APPROVED

MAP No. 176550, 178550 | SHEET 3

SECT. No. | OF 14

DR. ZHA | CK. NCB | JOB No.

8/19/2025 10:50:10 AM
pw://rsandh-pw.bentley.com:rsandh-pw-01:Documents/Transportation/Projects/10230710000+COSA+2022+Bond+Sidney+Brooks+Drive/03.00 Project Execution/03.04 Design/Irrigation/SID-S-REC-NOTE-01.dgn

UTILITIES

49. The existence and location of utilities indicated on these plans are taken from available records and are not guaranteed to be accurate.

50. The Contractor shall verify the exact location of underground utilities and drainage structures at least 1-2 weeks prior to construction whether shown on plans or not. Please allow up to 7 business days for locates requesting pipe location markers on SAWS facilities. Contractor shall call Texas State Wide One Call locator at 1-800-545-6005 or 811.

51. Contractor shall exercise extreme caution when working near, adjacent, or under existing utilities. Any damage to existing utility facilities resulting from Contractor's activities or construction methods will be repaired, replaced, restored or fully reimbursed at the Contractor's expense.

52. The location and depth of existing utilities and associated easements, if any, shown in these plans are approximate only. Prior to construction, Contractor shall verify the locations and depth of all the existing public or private utilities including but not limited to water, sanitary sewer, service laterals, telephone, cable television, data transfer cables, communications, duct banks, utility vaults, gas, heating and cooling, underground electric, fiber optic, drainage systems and irrigation lines. Contractor shall notify SAWS and the Engineer of any discrepancies or conflicts prior to construction. Any damage to the existing utilities shall be repaired at the Contractor's expense (NSPI).

53. Contractor shall provide proper shoring or other suitable support for all utilities crossed or located adjacent to the construction areas. Contractor shall coordinate with the utility company representatives as required to provide support , marking and protective measures within the construction work zones.

54. Whenever power poles are adjacent to the proposed construction, the Contractor shall provide proper shoring or other suitable support during construction, with methods approved by the utility company maintenance department. (NSPI)

55. Due to federal regulations Title 49, part 192.181, CPS must maintain access to gas valves at all times. The Contractor must protect and work around any gas valves that are in the project area.

56. Contractor shall support. maintain, and keep intact all drainage features or structures. Existing drainage paths shall not be blocked and shall remain in operation during construction. Any damage resulting from contractor's activities or construction will be restored by the Contractor at their own expense.

Site Restoration

57. Contractor shall restore all property to acceptable conditions as determined by the inspector with no spoil, fill, or garbage left onsite. All spoil, excess material, and garbage shall be removed from the project site at the Contractor's expense.

58. The Contractor shall be responsible for restoring to its original, or better, condition from damages done to existing fences, curbs, or concrete driveways (NSPI).

Plan of Record

59. Contractor shall furnish the Engineer with a complete "Plan-of-Record" redline set of plans prior to submitting "final" pay request. Redlines are required for all monthly payments.

60. Contractor is required to complete plan of record drawings for completed work as work progresses and shall be required to demonstrate progress to the inspector and engineer prior to payment of testing related bid items on associated segments of the project. Said drawings shall indicate the actual measurements and locations of the installed pipeline, fittings, valves, and appurtenances with offset distances to easement lines and other features.

CONSTRUCTION STAKING

61. Contractor shall be responsible for layout and setting his own construction stakes, markers, etc.

CPS ENERGY NOTES

62. Consider overhead line clearances and locations where large equipment may be used.

63. Sleeving of overhead primary lines will be a cost to the Contractor. The shielding/sleeving of lines is for reference, not for protection from electrical shock.

64. De-energizing of primary lines or transmission lines for construction purposes will be a cost to the Contractor. De-energizing may not be possible in all instances.

65. Temporary relocation of poles during construction will be the responsibility of the Contractor.

66. Include utility inspections and time needed where necessary in schedules.

DEWATERING

67. For the entire duration of the contract, the contractor shall keep all parts of the project site, including excavations, free from any accumulation of water regardless of the source or cause of such water, by adequate trenching and pumping, as required (NSPI).

68. Pumping shall include adequate pumps, hose strainers, and any other appurtenances, fuel, power, trenching, erosion-control facilities, and pumping, as required.

69. Water shall be disposed of in such a manner that does not endanger public health or cause damage or expense to public or private property, and is in accordance with the requirements of any public agencies having jurisdiction. If sewers and streets are used for drainage or the disposal of water during construction, they shall be maintained and left satisfactorily clean upon the completion of work.

02

Developer's Name: CITY OF SAN ANTONIO

Address: 100 W HOUSTON ST

City: SAN ANTONIO State: TEXAS ZIP: TEXAS

Phone # 210-207-5734 FAX # NA

SAWS Block Map # 176550, 178550 Total EDU's NA Total Acreage NA

Total Linear Footage of Pipe: 1,489 LF 8" PVC, 10 LF 2" PVC Plat No. NA

Number of Lots NA SAWS JOB NO. 24-1186

STATE OF TEXAS
NIKKI CHRISTINE BROM
137308
LICENSED
PROFESSIONAL ENGINEER

MARCH 31, 2025

RS&H, Inc.
13750 San Pedro Ave, Suite 300
San Antonio, Texas 78232
210-224-2800 FAX 210-545-3103
Texas Registration No. F-3401
www.rsandh.com

No.	Revision	Drawn	Approved	Date
2	Addendum 04			8/19/2025

REVISIONS

RECLAIMED WATER GENERAL NOTES

DEVELOPER: San Antonio Water Systems

CONT. BUDGET PROJ. #

SUBMITTED

APPROVED

MAP No. 176550, 178550 SHEET 4

SECT. No.

DR. ZHA CK. NCB JOB No. OF 14

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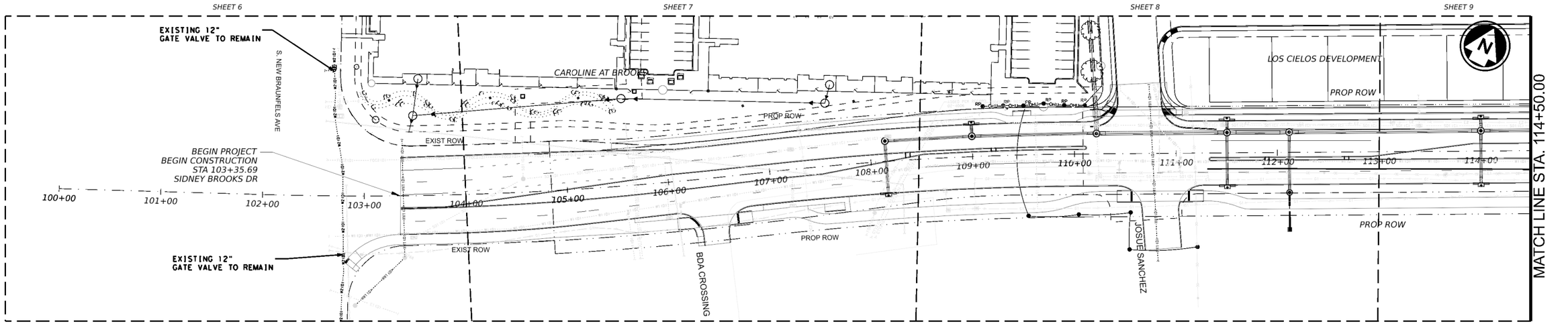

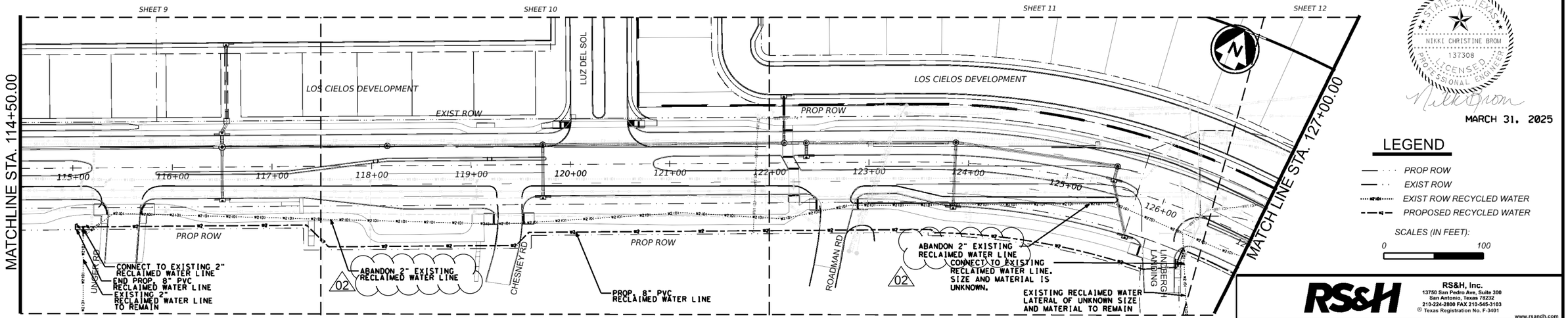

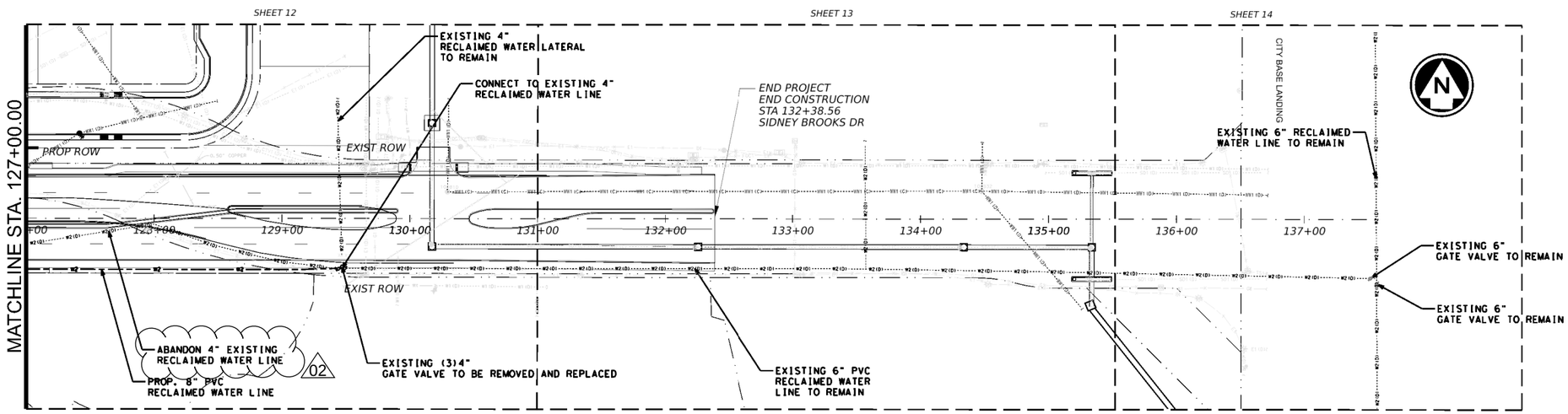

REFER TO COSA SIDNEY BROOKS PROJECT (23-03916) FOR CENTERLINES, ADDITIONAL CONTROL POINTS, AND BENCHMARK INFORMATION.

STATE OF TEXAS
NIKKI CHRISTINE BROM
137308
LICENSED PROFESSIONAL ENGINEER

MARCH 31, 2025

LEGEND

- PROP ROW
- EXIST ROW
- EXIST ROW RECYCLED WATER
- PROPOSED RECYCLED WATER

SCALES (IN FEET): 0 100

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No.	Revision	Drawn	Approved	Date
2	Addendum 04			8/19/2025
1	Addendum 03			8/8/2025

REVISIONS

RECLAIMED WATER PROJECT LAYOUT

DEVELOPER: San Antonio Water Systems

CONT. | BUDGET PROJ. #

SUBMITTED

APPROVED

MAP No. 176550, 178550 | SHEET 5

SECT. No. | OF 14

DR. ZHA | CK. NCB | JOB No.

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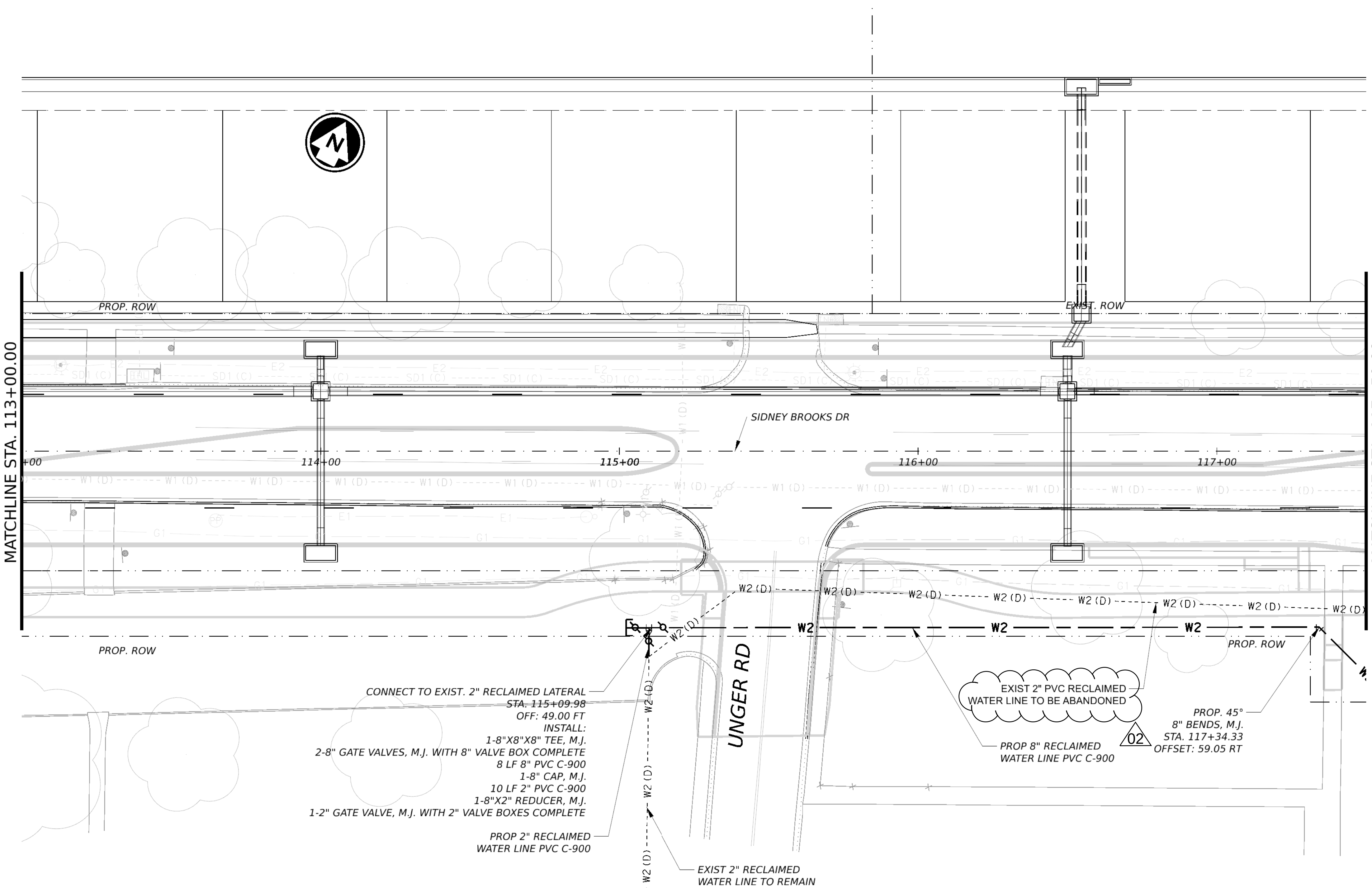
NOTES
1. CONTRACTOR TO RESTRAIN THE NEAREST EXISTING JOINT PER ITEM 839 WHEN TYING MAIN (NPSI).
2. DUE TO FEDERAL REGULATION TITLE 49, PART 92.181 CPS MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE THE PROJECT AREA.
3. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING CPS OVERHEAD AND UNDERGROUND ELECTRICAL FACILITIES ADJACENT TO THE WORK AREAS.
4. THE CONTRACTOR WILL HAVE RESPONSIBILITY TO PROTECT AND SUPPORT CABLE TV AND TELEPHONE COMPANY FACILITIES DURING CONSTRUCTION.
5. THE EXISTANCE AND LOCATION OF UTILITIES INDICATED ON THE PLAN TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE.
6. EXISTING UTILITY LOCATIONS REPRESENT SUE QUALITY LEVEL C AND D. CONTRACTOR TO VERIFY LOCATIONS.
7. ALL JOINTS TO BE RESTRAINED PER ITEM 839.
8. COORDINATE FINISHED GROUND ELEVATIONS WITH ROADWAY/GRADING AND DRAINAGE PLANS.
9. REPLACE EXISTING METER BOXES WITH NEW METER BOXES. NEW METER BOX IS SUBSIDIARY TO ITEM NO. 833 EXISTING METER AND NEW METER BOX RELOCATION.
10. REPLACEMENT OF WATER METER BOXES ARE TO BE AT THE DISCRETION OF THE SAWS INSPECTOR.
11. ALL SAWS FACILITIES OUTSIDE OF THE PROPOSED CITY OF SAN ANTONIO RIGHT-OF-WAY WILL REQUIRE PERMANENT EASEMENTS.

LEGEND

POTABLE WATER	W1
EXIST RECLAIMED	W2(D)
PROP RECLAIMED	W2
EXIST GAS MAIN	G1
EXIST SANITARY SEWER	WW1
EXIST STORM SEWER	SD1
PROP ROW	
EXIST ROW	
EXIST RECLAIMED WATER METER	
EXIST RECLAIMED WATER VALVE	
PROP RECLAIMED WATER VALVE	

0 20 40
SCALE: 1" = 40'



State of Texas — NIKKI CHRISTINE BROM — 137308 — LICENSED PROFESSIONAL ENGINEER

MARCH 31, 2025

ITEM	DESCRIPTION	UNIT	QUANTITY
550	Trench Excavation Safety Protection	LF	258
818	2" C900 PVC (CL235) Waterline	LF	10
818	8" C900 PVC (CL235) Waterline	LF	248
828	Gate Valves	EA	3
836	Pipe Fittings, all sizes and types	TON	2
840	2" Water Tie-Ins	EA	1
841	Hydrostatic Testing	EA	1
1015	Service Line Break/Leak Repairs	EA	1

02

Developer's Name: CITY OF SAN ANTONIO
Address: 100 W HOUSTON ST
City: SAN ANTONIO State: TEXAS ZIP: TEXAS
Phone # 210-207-5734 FAX # NA
SAWS Block Map # 176550, 178550 Total EDU's NA Total Acreage NA
Total Linear Footage of Pipe: 1,489 LF 8" PVC, 10 LF 2" PVC Plat No. NA
Number of Lots NA SAWS JOB NO. 24-1186

RS&H
RS&H, Inc.
13750 San Pedro Ave, Suite 300
San Antonio, Texas 78232
210-224-2800 FAX 210-545-3103
® Texas Registration No. F-3401
www.rsandh.com

No.	Revision	Drawn	Approved	Date
2	Addendum 04			8/19/2025
1	Addendum 03			8/8/2025

REVISIONS

RECLAIMED WATER
(SHEET 4 OF 9)

DEVELOPER: San Antonio Water Systems
CONT. BUDGET PROJ. #

SUBMITTED

APPROVED

MAP No. 176550, 178550 SHEET 9
SECT. No. Of 14
DR. ZHA CK. NCB JOB No.

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NOTES
1. CONTRACTOR TO RESTRAIN THE NEAREST EXISTING JOINT PER ITEM 839 WHEN TYING MAIN (NPSI).
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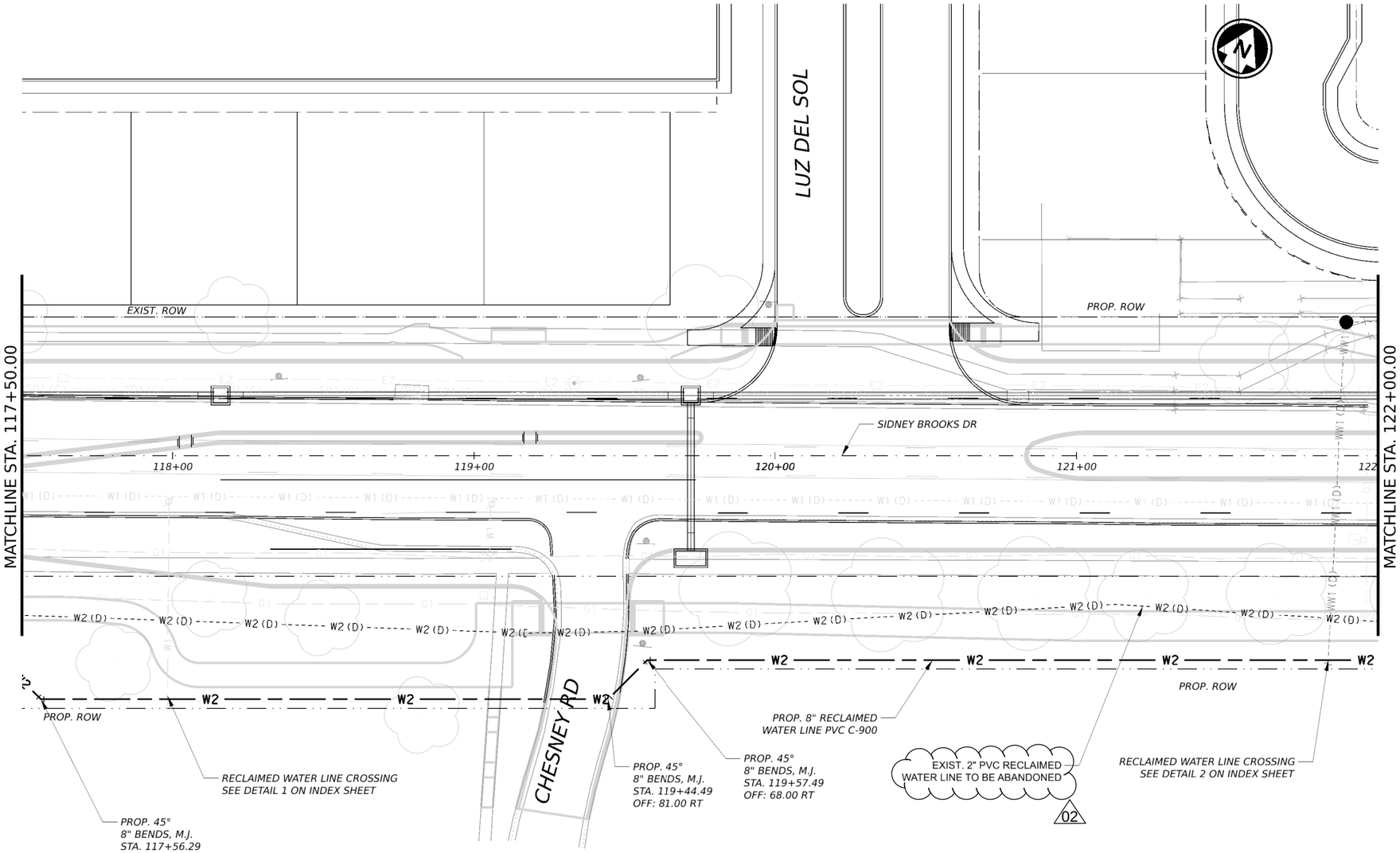

LEGEND

- POTABLE WATER — W1
- EXIST RECLAIMED — W2 (D)
- PROP RECLAIMED — W2
- EXIST GAS MAIN — G1
- EXIST SANITARY SEWER — WW1
- EXIST STORM SEWER — SD1
- PROP ROW
- EXIST ROW
- EXIST RECLAIMED WATER METER
- EXIST RECLAIMED WATER VALVE
- PROP RECLAIMED WATER VALVE

0 20 40
SCALE: 1" = 40'

ITEM	DESCRIPTION	UNIT	QUANTITY
550	Trench Excavation Safety Protection	LF	458
818	8" C900 PVC (CL235) Waterline	LF	458
836	Pipe Fittings, all sizes and types	TON	1

02

Developer's Name: CITY OF SAN ANTONIO
Address: 100 W HOUSTON ST
City: SAN ANTONIO State: TEXAS ZIP: TEXAS
Phone # 210-207-5734 FAX # NA
SAWS Block Map # 176550, 178550 Total EDU's NA Total Acreage NA
Total Linear Footage of Pipe: 1,489 LF 8" PVC, 10 LF 2" PVC Plat No. NA
Number of Lots NA SAWS JOB NO. 24-1186

STATE OF TEXAS
NIKKI CHRISTINE BROM
137308
LICENSED
PROFESSIONAL ENGINEER
MARCH 31, 2025

RS&H
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13750 San Pedro Ave, Suite 300
San Antonio, Texas 78232
210-224-2800 FAX 210-545-3103
Texas Registration No. F-3401
www.rsandh.com

No.	Revision	Drawn	Approved	Date
2	Addendum 04			8/19/2025
1	Addendum 03			8/8/2025

REVISIONS

RECLAIMED WATER (SHEET 5 OF 9)

DEVELOPER: San Antonio Water Systems
CONT. | BUDGET PROJ. #
SUBMITTED
APPROVED

MAP No. 176550, 178550 | SHEET 10
SECT. No. | OF 14
DR. ZHA | CK. NCB | JOB No.

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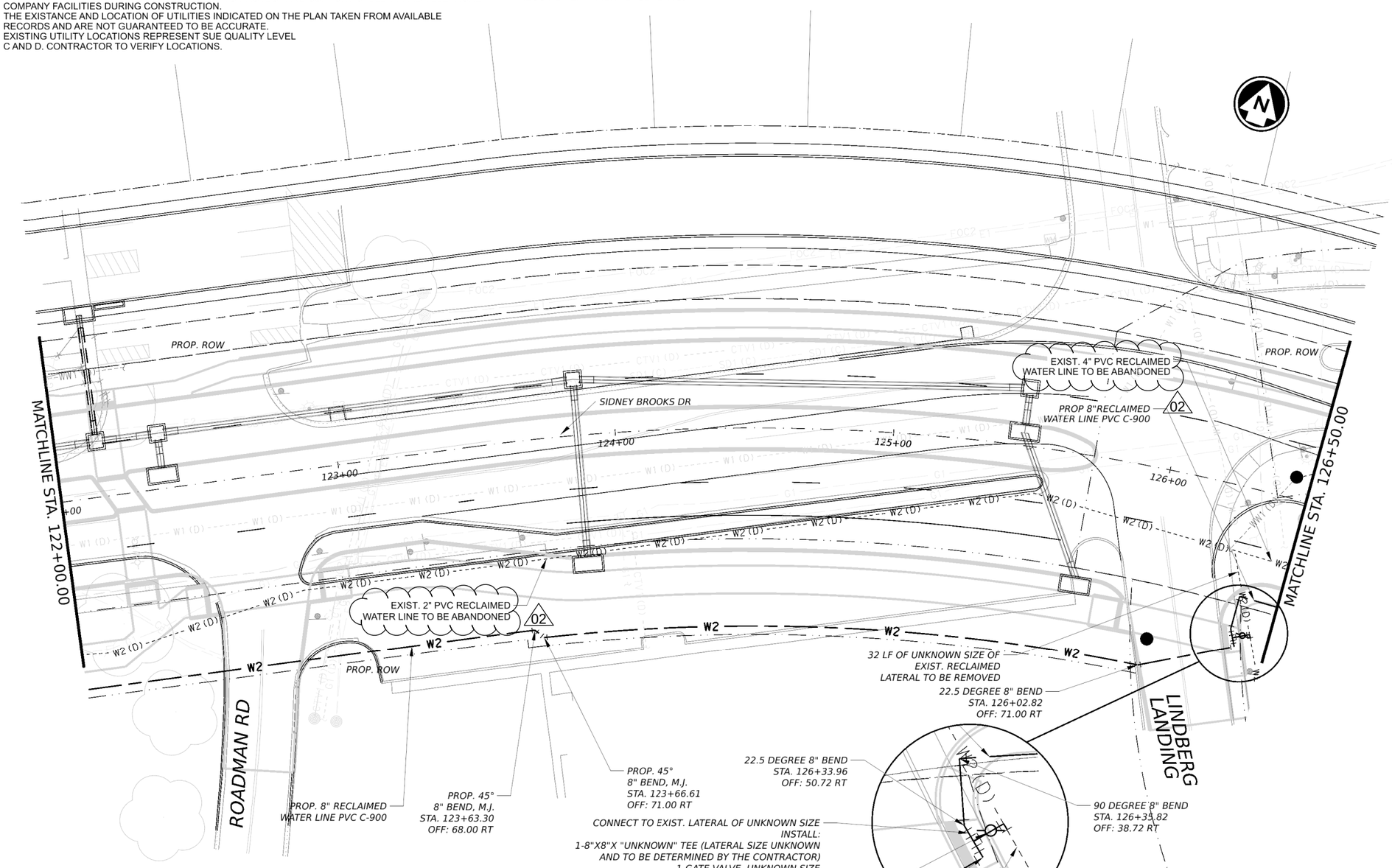

LEGEND

POTABLE WATER	W1
EXIST RECLAIMED	W2(D)
PROP RECLAIMED	W2
EXIST GAS MAIN	G1
EXIST SANITARY SEWER	WW1
EXIST STORM SEWER	SD1
PROP ROW	
EXIST ROW	
EXIST RECLAIMED WATER METER	
EXIST RECLAIMED WATER VALVE	
PROP RECLAIMED WATER VALVE	

0 20 40
SCALE: 1" = 40'

ITEM	DESCRIPTION	UNIT	QUANTITY
550	Trench Excavation Safety Protection	LF	492
818	8" C900 PVC (CL235) Waterline	LF	492
828	Gate Valves	EA	1
836	Pipe Fittings, all sizes and types	TON	2
840	4" Water Tie-Ins	EA	1
841	Hydrostatic Testing	EA	1
1015	Service Line Break/Leak Repairs	EA	1

02

Developer's Name: CITY OF SAN ANTONIO
Address: 100 W HOUSTON ST
City: SAN ANTONIO State: TEXAS ZIP: TEXAS
Phone # 210-207-5734 FAX # NA
SAWS Block Map # 176550, 178550 Total EDU's NA Total Acreage NA
Total Linear Footage of Pipe: 1,489 LF 8" PVC, 10 LF 2" PVC Plat No. NA
Number of Lots NA SAWS JOB NO. 24-1186

STATE OF TEXAS
NIKKI CHRISTINE BROM
137308
LICENSED
PROFESSIONAL ENGINEER
MARCH 31, 2025

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13750 San Pedro Ave, Suite 300
San Antonio, Texas 78232
210-224-2800 FAX 210-545-3103
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No.	Revision	Drawn	Approved	Date
2	Addendum 04			8/19/2025
1	Addendum 03			8/8/2025

REVISIONS

RECLAIMED WATER (SHEET 6 OF 9)

DEVELOPER: San Antonio Water Systems
CONT. BUDGET PROJ. #
SUBMITTED
APPROVED
MAP No. 176550, 178550
SECT. No.
DR. ZHA CK. NCB JOB No.
SHEET 11 OF 14

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NOTES
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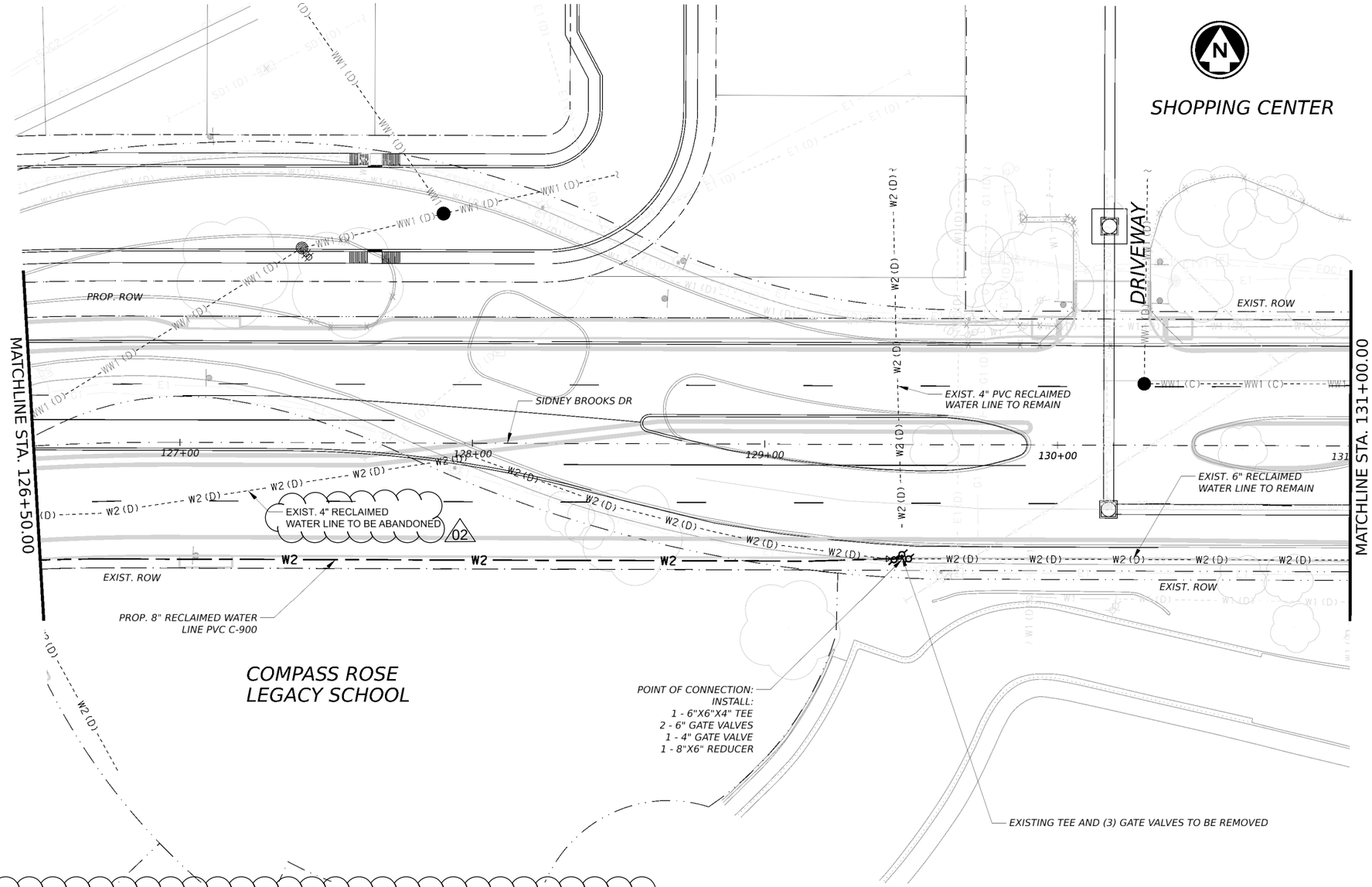
11. ALL SAWS FACILITIES OUTSIDE OF THE PROPOSED CITY OF SAN ANTONIO RIGHT-OF-WAY WILL REQUIRE PERMANENT EASEMENTS.



ITEM	DESCRIPTION	UNIT	QUANTITY
550	Trench Excavation Safety Protection	LF	311
818	8" C900 PVC (CL235) Waterline	LF	291
828	Gate Valves	EA	3
836	Pipe Fittings, all sizes and types	TON	1
840	4" Water Tie-Ins	EA	1
1015	Service Line Break/Leak	EA	1
1020	Water Main Break/Leak Repairs	EA	1

02

LEGEND

POTABLE WATER	W1
EXIST RECLAIMED	W2(D)
PROP RECLAIMED	W2
EXIST GAS MAIN	G1
EXIST SANITARY SEWER	WW1
EXIST STORM SEWER	SD1
PROP ROW	
EXIST ROW	
EXIST RECLAIMED WATER METER	
EXIST RECLAIMED WATER VALVE	
PROP RECLAIMED WATER VALVE	

0 20 40
SCALE: 1" = 40'

STATE OF TEXAS
NIKKI CHRISTINE BROM
137308
LICENSED PROFESSIONAL ENGINEER

MARCH 31, 2025

Developer's Name: CITY OF SAN ANTONIO
Address: 100 W HOUSTON ST
City: SAN ANTONIO State: TEXAS ZIP: TEXAS
Phone # 210-207-5734 FAX # NA
SAWS Block Map # 176550, 178550 Total EDU's NA Total Acreage NA
Total Linear Footage of Pipe: 1,489 LF 8" PVC, 10 LF 2" PVC Plat No. NA
Number of Lots NA SAWS JOB NO 24-1186

RS&H, Inc.
13750 San Pedro Ave, Suite 300
San Antonio, Texas 78232
210-224-2800 FAX 210-545-3103
© Texas Registration No. F-3401
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No.	Revision	Drawn	Approved	Date
2	Addendum 04			8/19/2025
1	Addendum 03			8/8/2025

REVISIONS

RECLAIMED WATER
(SHEET 7 OF 9)

DEVELOPER: San Antonio Water Systems
CONT. | BUDGET PROJ. #
SUBMITTED
APPROVED
MAP No. 176550, 178550 | SHEET 12
SECT. No. | OF 14
DR. ZHA | CK. NCB | JOB No.

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Civic Improvement Project

Contract Exhibit GAS-6

General Notes

1. 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.
2. 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.
3. Gas main is to be abandoned in sections no longer than 300 feet. Each section is to be purged of gas with compressed air, and then the ends are to be sealed with concrete. All abandoned services are to be plugged. All valve boxes on abandoned mains are to be removed.
4. 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.
5. 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 shallnotify 811 for all utility locates and maintain an open ticket for the duration of the gas work.
6. Gas valves and underground gas facility access points should remain accessible at all times. Contractor must notify John Offer with CPS Energy at (210) 353-2012 at least 48 hours prior to construction in order to adjust existing valve covers or access points within the proposed area of construction.
7. 48 hours before excavating, notify One-Call at 1-800-545-6005. This number should notify all utilities of locates. For Emergency gas locates call 210-353-HELP.
8. In accordance with the Texas Administrative Code Title 16, Part 1, Ch. 3 Rule 3.30 and in compliance with the Clean Water Act, 33 U.S.C. 1251, for projects that will disturb 1 or more acres of land or will disturb less than 1 acre of land but is part of a common plan of development that will ultimately disturb 1 or more acres the General Contractor is responsible for submitting the Notice of Intent (NOI) through the Electronic Notice of Intent Online System (eNOI) at the following web address: www.epa.gov/npdes/stormwater/cgpenoi . The General Contractor will need to ensure Sub-Contractor compliance under EPA Construction General Permit requirements. NOI must be certified 14 days prior to earth disturbing activities, in accordance with National Pollutant Discharge Elimination System (NPDES) EPA Construction General Permit.
9. 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.
10. 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.
11. 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.
12. 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. All 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.
13. 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 installedmeter capacity exceeding 1,000 SCFH . An EFV or manual service valve 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.
14. 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.
15. Pipe supports must be installed ot 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.

DP Service Insertion Notes

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

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:_____

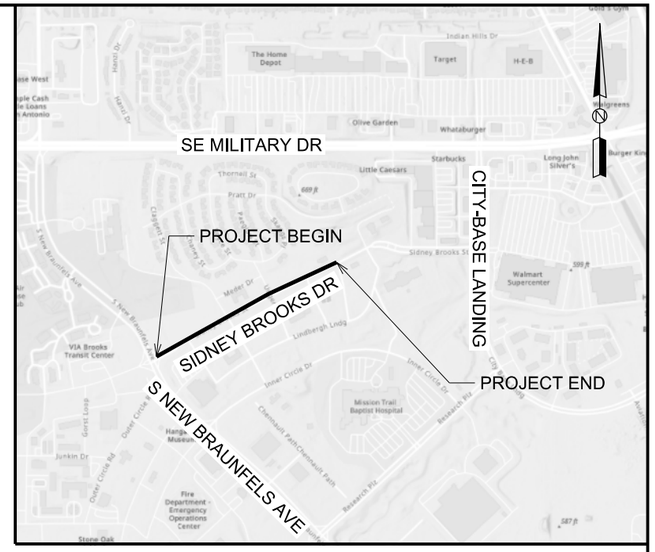
Project Notes

1. All R.O.W. acquisition/clearing and OHE pole relocations 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.
2. Contact Jason Guillemette of CPS Energy by email at least 48-hours prior to all gas main tie-ins to request pressure control operation plan. A minimum two-week notice must be submitted prior to performing tie-ins on any supply-pressure gas mains.
3. Contractor will be responsible for all costs associated with removing abandoned utilities or structures that conflict with the installation of proposed gas facilities.
4. Contractor must refer to traffic control plan for construction phasing and areas of gas installation that will require night or weekend work. All night or weekend gas work reguiring an inspector or other CPS personnel must be scheduled with CPS Energy at least one week in advance.
5. Contact Jason Guillemette of CPS Energy to locate all non-stock materials listed on the Material Summary Tables.

SWPPP General Notes:

1. A STORM WATER PERMIT IS ACTIVE FOR THIS CONSTRUCTION SITE. CONTRACTOR SHALL CALL JULIE MORELLI OF ZEPHYR ENVIRONMENTAL (210) 386-6580 AT LEAST 48-HOURS PRIOR TO ANY SOIL DISTURBANCE.
2. Do not disturb vegetated areas (trees, grass, weeds, brush, etc.) any more than necessary for construction.
3. Storm Water Pollution Prevention Controls may need to be modified in the field to accomplish the desired effect. All modifications are to be noted on the SWPPP and signed and dated by the responsible party.
4. Restrict entry and exit to the project site to designated locations by use of adequate fencing, if necessary.
5. All Storm Water Pollution Prevention Controls are to be maintained and in working conditions at all times.
6. For a complete listing of Temporary Storm Water Pollution Prevention Controls refer to the NPDES Storm Water Pollution Prevention Plan (SWPPP).
7. Construction entrance / exit location, and construction equipment and material storage yard to be determined in the field.
8. Storm water pollution prevention structures should be constructed within the site boundaries. Some of these features may be shown outside the site boundaries on this plan for visual clarity.
9. As soon as practical, all disturbed soil that will not be covered by impervious cover such as parkway areas, easement areas, embankment slopes, etc. will be stabilized per project specifications.
10. Upon completion of the project, including site stabilization, and before final payment is issued, the contractor shall remove all sediment and erosion control measures, paying special attention to rock berms in drainage features.
11. CONTRACTOR SHALL PERFORM PRE-CONSTRUCTION SITE MEETING WITH CPS ENERGY REPRESENTATIVES PRIOR TO ANY SOIL DISTURBANCE TO DISCUSS COORDINATION FOR SWPPP AND ANY ENVIRONMENTAL OR CULTURAL MONITORING REQUIREMENTS.

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



Location Map
N.T.S.

Construction Points		Install			Abandon	
From	To	Pipe Size	Length	MAOP	Pipe Size	Length
1	2				3-SPD	1839'
1	2				4-SPD	1773'
1	2	6PA-SPD	2547'	59 psig	4PA-SPD	348'
1	2				6PA-SPD	106'
3	4	4PA-SPD	37'	59 psig		
5	6	2PA-SPD	107'	59 psig		
7	8	4PA-SPD	73'	59 psig		
7	9	2PA-SPD	26'	59 psig		
10	11	4PA-SPD	75'	59 psig		
12	13	4PA-SPD	68'	59 psig	4PA-SPD	77'
Install					Abandon	
					Total 3-SPD	1839'
Total 2PA-SPD			133'		Total 4-SPD	1773'
Total 4PA-SPD			253'		Total 4PA-SPD	425'
Total 6PA-SPD			2547'		Total 6PA-SPD	106'

1

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

STATE OF TEXAS
MICHAEL J. GUERRA
95687
LICENSED PROFESSIONAL ENGINEER
P.E.
08/08/2025

Construction

Contractor
Center
By
Start Date
Comp. Date
CPS Inspector

No.	Drawing Revision	Date
0	Planning Completed	10/30/2024
1	Addendum 04	8/8/2025

Checked By:
Approved By: William T Fey
Date Approved: 08-08-25
Date Approved: 8/18/2025
Designed By: Alyssa Arizola, aarizola@lja.com, 210-630-6493
LJA ENGINEERING, INC FRN - F-1386
Map Quadrants: X= 2148447, Y= 13674853
Project No.: G-0272
Job Title: COSA - SIDNEY BROOKS
CPS ENERGY 500 McCULLOUGH SAN ANTONIO, TX 78215
Job No.: WR # 40759305

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8/8/2025

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

Contract Exhibit GAS-6

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	PLASTIC FUSE INSPECTION VERIFICATION			COMMENTS
	INSPECTED BY (PRINT NAME):	SIGNATURE:	DATE:	
	INSPECTED BY (PRINT NAME):	SIGNATURE:	DATE:	
	INSPECTED BY (PRINT NAME):	SIGNATURE:	DATE:	
	INSPECTED BY (PRINT NAME):	SIGNATURE:	DATE:	
	INSPECTED BY (PRINT NAME):	SIGNATURE:	DATE:	
	INSPECTED BY (PRINT NAME):	SIGNATURE:	DATE:	
	INSPECTED BY (PRINT NAME):	SIGNATURE:	DATE:	
	INSPECTED BY (PRINT NAME):	SIGNATURE:	DATE:	
	INSPECTED BY (PRINT NAME):	SIGNATURE:	DATE:	
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	INSPECTED BY (PRINT NAME):	SIGNATURE:	DATE:	
	INSPECTED BY (PRINT NAME):	SIGNATURE:	DATE:	
	INSPECTED BY (PRINT NAME):	SIGNATURE:	DATE:	
	INSPECTED BY (PRINT NAME):	SIGNATURE:	DATE:	

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

STATE OF TEXAS
MICHAEL J. GUERRA
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LICENSED
PROFESSIONAL ENGINEER

P.E.
08/08/2025

No.	Drawing Revision	Date
0	Planning Completed	10/30/2024
1	Addendum 04	8/8/2025

Checked By:	Date Approved: 08-08-25	Designed By: Alyssa Arizola, aarizola@lja.com, 210-630-6493	LJA ENGINEERING, INC FRN - F-1386	Job Title: COSA - SIDNEY BROOKS
Approved By: William T Fey	Date Approved: 8/18/2025	Map Quadrants: X= 2148447 Y= 13674853	Project No. G-0272	CPS ENERGY, 500 McCULLOUGH, SAN ANTONIO, TX 78215

Job No. WR # 40759305

K:\SA1351 CPS Energy\Gas Engineering\COSA\2402 - Sidney Brooks (WR 40759305)\CADD\Plan Set\2-PFIV.dgn
8/8/2025

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

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							
		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							
EXAMPLE:	1 to 2	2" IPS DR 11 Yellowstripe 8300 GAS PE3408/4710-PE100 CEE ASTM D2513 WT015 Y NR 0356 A1-043 27Jul06 coil#0152	1,200	Air	1 hour	90 psig	Inspector Name	Foreman or Contractor Name	5/31/2017

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.

STATE OF TEXAS
MICHAEL J. GUERRA
95687
LICENSED PROFESSIONAL ENGINEER
P.E.
08/08/2025

No.	Drawing Revision	Date
0	Planning Completed	10/30/2024
1	Addendum 04	8/8/2025

Checked By: — Date Approved: 08-08-25
Approved By: William T Fey — Date Approved: 8/18/2025

Designed By: Alyssa Arizola
aarizola@lja.com
210-630-6493
LJA ENGINEERING, INC FRN - F-1386

Map Quadrants: X= 2148447 Y= 13674853
Project No.: G-0272

Job Title: COSA - SIDNEY BROOKS

CPS ENERGY
500 McCULLOUGH
SAN ANTONIO, TX 78215

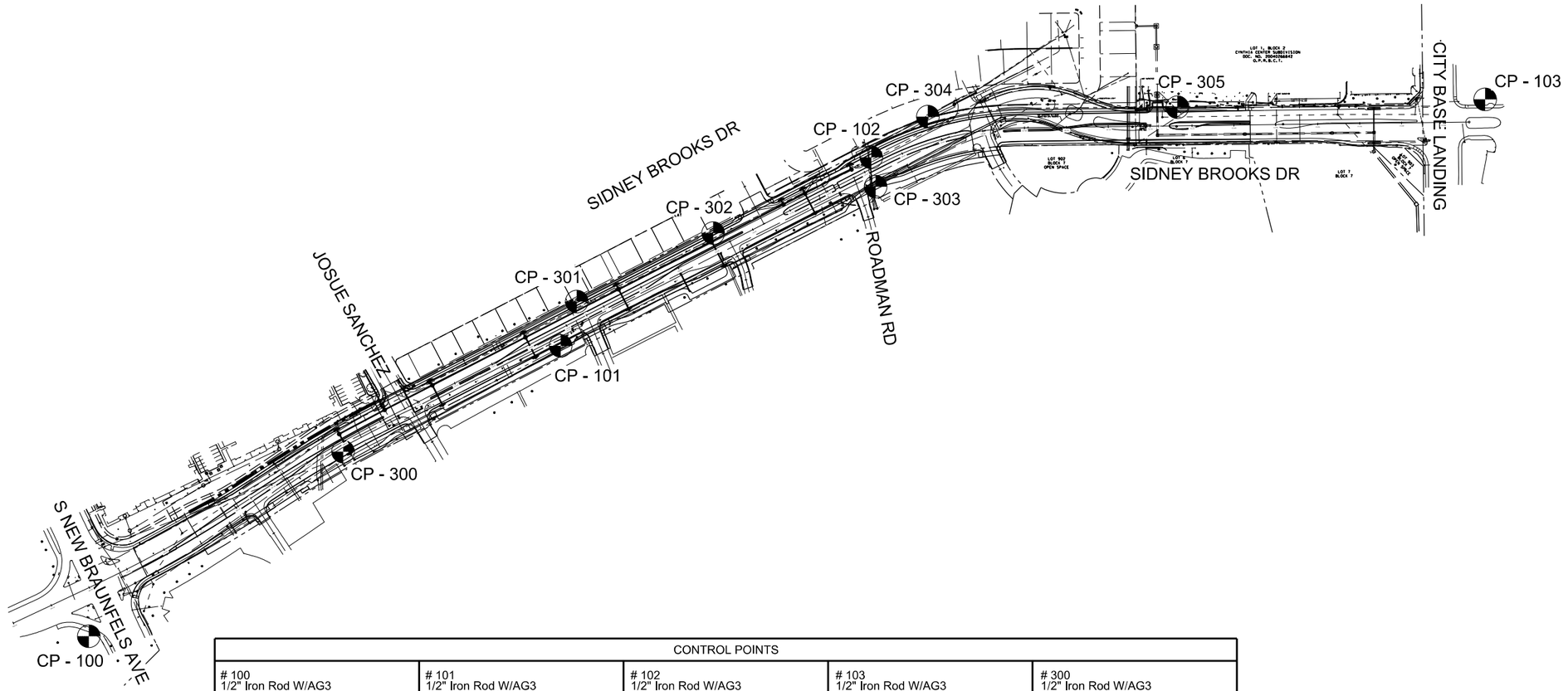
Job No.: WR # 40759305

K:\SA1351 CPS Energy\Gas Engineering\COSA\2402 - Sidney Brooks (WR 40759305)\CADD\Plan Set\3-PrintLineData.dgn
8/8/2025

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

Contract Exhibit GAS-6

Scale:
1"=300'



CONTROL POINTS				
# 100 1/2" Iron Rod W/AG3 Control Cap Set Northing: 13675960.07 Easting: 2145632.10 Elevation: 607.73' 1/2 Iron Rod with AG3 control cap set on the southwest of S New Braunfels Ave +/- 104' south of intersection with Sidney Brooks RD	# 101 1/2" Iron Rod W/AG3 Control Cap Set Northing: 13676653.05 Easting: 2146757.73 Elevation: 615.24' 1/2" Iron Rod with AG3 control cap set on the southwest of Unger Road, +/- 87' northwest of intersection with Sidney Brooks Dr.	# 102 1/2" Iron Rod W/AG3 Control Cap set Northing: 13677103.14 Easting: 2147499.06 Elevation: 624.77' 1/2 Iron Rod with AG3 control cap set on the northeast of Sidney Brooks Rd, +/- 83 ft southeast of intersection with Roadman Rd	# 103 1/2" Iron Rod W/AG3 Control Cap Set Northing: 13677241.52 Easting: 2148963.53 Elevation: 599.14' 1/2 Iron Road with AG3 control cap set on the northeast of City Base Landing, +/- 113' northeast of intersection with Sidney Brooks Dr	# 300 1/2" Iron Rod W/AG3 Control Cap Set Northing: 13676400.64 Easting: 2146238.80 Elevation: 613.93' 1/2" Iron Rod with AG3 control cap set on south of Sidney Brooks Dr, +/- 87' east of the intersection with Unger Rd.
# 301 Mag Nail Set in Asphalt Northing: 13676759.06 Easting: 2146796.40 Elevation: 616.69' Mag Nail Set in Asphalt set on north of Unger Rd, +/- 39' north of intersection with Sidney Brooks Rd	# 302 1/2" Iron Rod W/AG3 Control Cap Set Northing: 13676922.46 Easting: 2147121.89 Elevation: 619.85' 1/2" Iron Rod with AG3 control cap set on the nort of Sidney Brooks Dr, +/- 362' northwest of intersection with Roadman Rd	# 303 Mag Nail Set in Asphalt Northing: 13677033.37 Easting: 2147509.28 Elevation: 621.15' Mag Nail Set in Asphalt set on south of Sidney Brooks Rd, +/- 40' northeast of intersection with Roadman Rd	# 304 1/2" Iron Rod W/AG3 Control Cap Set Northing: 13677200.37 Easting: 2147633.93 Elevation: 629.56' 1/2" Iron Rod with AG3 control cap set north of Sidney Brooks Rd, +/- 232' northeast of intersection with Roadman Rd	# 305 1/2" Iron Rod W/AG3 Control Cap Set Northing: 13677223.00 Easting: 2148229.35 Elevation: 620.10' 1/2" Iron Rod with AG3 control cap set on the northeast of Sidney Brooks Rd, +/- 635' west of City Base Landing intersection.

NOTE: Gas contractor must verify control points with general contractor prior to installation of gas facilities.

GENERAL NOTES:

1. COORDINATES SHOWN ARE DISPLAYED AS SURFACE VALUES IN US SURVEY FEET, BASED ON THE NORTH AMERICAN DATUM OF 1983 (2011) EPOCH 2010.00 FROM THE TEXAS COORDINATE SYSTEM ESTABLISHED FOR THE SOUTH CENTRAL ZONE, WITH A SURFACE ADJUSTMENT FACTOR OF 1.00017 APPLIED, AS DERIVED FROM UTILIZING TRIMBLE G3 RTKNET NETWORK CORRECTIONS.

2. BEARINGS SHOWN ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (2011) EPOCH 2010.00 FROM THE TEXAS COORDINATE SYSTEM ESTABLISHED FOR THE SOUTH CENTRAL ZONE, AS DERIVED FROM TRIMBLE G3 RTKNET NETWORK CONNECTIONS.

STATE OF TEXAS
MICHAEL J. GUERRA
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LICENSED
PROFESSIONAL ENGINEER

Michael J. Guerra, P.E.
08/08/2025

No.	Drawing Revision	Date
0	Planning Completed	10/30/2024
1	Addendum 04	8/8/2025

Checked By: Date Approved 08-08-25

Approved By: William T Fay Date Approved 8/18/2025

Designed By:
Alyssa Arizola
aarizola@lja.com
210-630-6493

LJA ENGINEERING, INC
FRN - F-1386

Map Quadrants X= 2148447 Y= 13674853

Project No. G-0272

Job Title: COSA - SIDNEY BROOKS

CPS ENERGY
500 McCULLOUGH
SAN ANTONIO, TX 78215

Job No. WR # 40759305

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8/8/2025

All proposed gas mains and services are to be installed at the planned Gas Top of Pipe Elevation indicated on the Location Data Table. Contract Exhibit GAS-6

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.

Location Data Table - Page 7 of 12

CS4 Item #	Location		Station Marker	Grade Elevations			Gas Requirements		Planned Depth of Gas			Potential Conflicting Facility			Clearance	
	Address	Location #/Street Name		Existing Grade	Proposed Final Grade	Estimated Finished Grade	Gas Pipe Size	Planned Gas T.O.P. Elevation	From Existing Grade	From Final Grade	From Finished Grade	Facility Description	Top Elevation	Bottom Elevation	Above Prop. Facility	Below Prop. Facility
		~~Sidney Brooks Dr~~	~~109+03~~	~~613.5~~	~~614.0~~	~~613.5~~	~~6PA~~	~~604.3~~	~~9.2~~	~~9.7~~	~~9.2~~	~~Ex 4" Gas~~	~~610.8~~	~~606.3~~	~~–~~	~~2.0~~
		~~Sidney Brooks Dr~~	~~109+63~~	~~613.9~~	~~615.0~~	~~614.5~~	~~6PA~~	~~606.6~~	~~7.3~~	~~8.4~~	~~7.9~~	~~Ex 4" Gas~~	~~608.9~~	~~608.6~~	~~–~~	~~2.0~~
		Sidney Brooks Dr	110+78	614.8	613.9	613.4	6PA	607.1	7.7	6.8	6.3	Ex 8" Sanitary Sewer	609.8	609.1	–	2.0
		~~Sidney Brooks Dr~~	~~111+13~~	~~615.1~~	~~614.3~~	~~613.8~~	~~6PA~~	~~607.9~~	~~7.3~~	~~6.4~~	~~5.9~~	~~Ex 3" Gas~~	~~610.1~~	~~609.9~~	~~–~~	~~2.0~~
		~~Sidney Brooks Dr~~	~~111+47~~	~~615.2~~	~~615.2~~	~~614.7~~	~~6PA~~	~~608.0~~	~~7.3~~	~~7.3~~	~~6.8~~	~~Ex 3" Gas~~	~~610.2~~	~~610.0~~	~~–~~	~~2.0~~

Location Data Table - Page 8 of 12

CS4 Item #	Location		Station Marker	Grade Elevations			Gas Requirements		Planned Depth of Gas			Potential Conflicting Facility			Clearance	
	Address	Location #/Street Name		Existing Grade	Proposed Final Grade	Estimated Finished Grade	Gas Pipe Size	Planned Gas T.O.P. Elevation	From Existing Grade	From Final Grade	From Finished Grade	Facility Description	Top Elevation	Bottom Elevation	Above Prop. Facility	Below Prop. Facility
		Sidney Brooks Dr	115+23	615.8	616.0	615.5	6PA	609.5	6.3	6.5	6.0	Ex 6" Water	612.0	611.5	–	2.0
		~~Sidney Brooks Dr~~	~~115+96~~	~~615.8~~	~~616.0~~	~~615.8~~	~~2PA~~	~~608.9~~	~~6.9~~	~~7.1~~	~~6.9~~	~~Ex 1" Gas~~	~~611.0~~	~~610.9~~	~~–~~	~~2.0~~

Location Data Table - Page 9 of 12

CS4 Item #	Location		Station Marker	Grade Elevations			Gas Requirements		Planned Depth of Gas			Potential Conflicting Facility			Clearance	
	Address	Location #/Street Name		Existing Grade	Proposed Final Grade	Estimated Finished Grade	Gas Pipe Size	Planned Gas T.O.P. Elevation	From Existing Grade	From Final Grade	From Finished Grade	Facility Description	Top Elevation	Bottom Elevation	Above Prop. Facility	Below Prop. Facility
		Sidney Brooks Dr	121+86	619.0	621.6	621.1	6PA	612.5	6.5	9.1	8.6	Ex 6" Sanitary Sewer	615.0	614.5	–	2.0
		~~Sidney Brooks Dr~~	~~122+16~~	~~618.9~~	~~621.7~~	~~621.2~~	~~2PA~~	~~612.7~~	~~6.2~~	~~9.0~~	~~8.5~~	~~Ex 2" Water~~	~~614.9~~	~~614.7~~	~~–~~	~~2.0~~
		~~Sidney Brooks Dr~~	~~122+16~~	~~619.1~~	~~621.8~~	~~621.3~~	~~2PA~~	~~612.9~~	~~6.3~~	~~8.9~~	~~8.4~~	~~Ex 3" Gas~~	~~615.1~~	~~614.9~~	~~–~~	~~2.0~~
		Sidney Brooks Dr	122+16	622.3	621.9	621.4	2PA	615.0	7.3	6.9	6.4	Ex 16" Water	618.3	617.0	–	2.0
		Sidney Brooks Dr	122+16	622.3	622.0	621.5	2PA	616.8	5.5	5.2	4.7	Prop Illumination	619.0	618.8	–	2.0
		Sidney Brooks Dr	122+16	622.7	622.6	622.1	2PA	612.5	10.2	10.1	9.6	Prop 24" Storm Drain	616.5	614.5	–	2.0
		Sidney Brooks Dr	122+16	624.7	624.3	623.8	2PA	617.0	7.7	7.3	6.8	Ex 8" Sanitary Sewer	619.7	619.0	–	2.0
		~~Sidney Brooks Dr~~	~~122+33~~	~~619.0~~	~~622.4~~	~~621.9~~	~~6PA~~	~~612.8~~	~~6.2~~	~~9.6~~	~~9.1~~	~~Ex 2" Water~~	~~615.0~~	~~614.8~~	~~–~~	~~2.0~~
		~~Sidney Brooks Dr~~	~~122+56~~	~~621.0~~	~~622.4~~	~~621.9~~	~~6PA~~	~~612.8~~	~~8.2~~	~~9.6~~	~~9.1~~	~~Ex 2" Water~~	~~615.0~~	~~614.8~~	~~–~~	~~2.0~~

1

STATE OF TEXAS
MICHAEL J. GUERRA
95687
LICENSED
PROFESSIONAL ENGINEER

P.E.
08/12/2025

No.	Drawing Revision	Date
0	Planning Completed	10/30/2024
1	Addendum 04	8/12/2025

Checked By: Date Approved: 08-12-25

Approved By: William T Fey Date Approved: 8/18/2025

Designed By: Alyssa Arizola
aarizola@lja.com
210-630-6493
LJA ENGINEERING, INC FRN - F-1386

Map Quadrants: X= 2148447 Y= 13674853

Project No.: G-0272

Job Title: COSA - SIDNEY BROOKS

CPS ENERGY
500 McCULLOUGH
SAN ANTONIO, TX 78215

Job No.: WR # 40759305

K:\SA1351 CPS Energy\Gas Engineering\COSA\2402 - Sidney Brooks (WR 40759305)\CADD\Plan Set\5-LocationDataTable.dgn

8/12/2025

All proposed gas mains and services are to be installed at the planned Gas Top of Pipe Elevation indicated on the Location Data Table. Contract Exhibit GAS-6

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.

Location Data Table - Page 10 of 12

CS4 Item #	Location		Station Marker	Grade Elevations			Gas Requirements		Planned Depth of Gas			Potential Conflicting Facility			Clearance	
	Address	Location #/Street Name		Existing Grade	Proposed Final Grade	Estimated Finished Grade	Gas Pipe Size	Planned Gas T.O.P. Elevation	From Existing Grade	From Final Grade	From Finished Grade	Facility Description	Top Elevation	Bottom Elevation	Above Prop. Facility	Below Prop. Facility
		~~Sidney Brooks Dr~~	~~124+00~~	~~624.0~~	~~622.5~~	~~621.0~~	~~6PA~~	~~617.1~~	~~6.9~~	~~5.4~~	~~3.9~~	~~Ex 4" Gas~~	~~619.5~~	~~619.1~~	–	~~2.0~~
		~~Sidney Brooks Dr~~	~~126+22~~	~~622.0~~	~~621.4~~	~~620.8~~	~~6PA~~	~~614.5~~	~~7.5~~	~~6.9~~	~~6.3~~	~~Ex Unk Water~~	~~617.0~~	~~616.5~~	–	~~2.0~~
		~~Sidney Brooks Dr~~	~~126+47~~	~~624.0~~	~~623.0~~	~~622.4~~	~~6PA~~	~~618.0~~	~~6.0~~	~~5.0~~	~~4.4~~	~~Ex 2" Gas~~	~~620.2~~	~~620.0~~	–	~~2.0~~
		~~Sidney Brooks Dr~~	~~126+56~~	~~622.0~~	~~622.2~~	~~620.3~~	~~4PA~~	~~617.2~~	~~4.8~~	~~5.0~~	~~3.1~~	~~Ex 2" Water~~	~~619.4~~	~~619.2~~	–	~~2.0~~
		Sidney Brooks Dr	126+57	624.0	622.6	620.9	4PA	617.4	6.6	5.2	3.5	Prop Illumination	619.6	619.4	–	2.0
		Sidney Brooks Dr	126+58	625.0	622.5	620.8	4PA	610.6	14.4	11.9	10.2	Ex 8" Sanitary Sewer	613.3	612.6	–	2.0
		~~Sidney Brooks Dr~~	~~126+58~~	~~624.5~~	~~621.0~~	~~619.3~~	~~4PA~~	~~614.3~~	~~10.2~~	~~6.7~~	~~5.0~~	~~Ex 4" Gas~~	~~621.0~~	~~620.7~~	–	~~6.3~~
		Sidney Brooks Dr	126+65	621.5	622.5	622.5	2PA	614.8	6.7	7.7	7.7	Prop 8" Rec Water	617.5	616.8		2.0

Location Data Table - Page 11 of 12

CS4 Item #	Location		Station Marker	Grade Elevations			Gas Requirements		Planned Depth of Gas			Potential Conflicting Facility			Clearance	
	Address	Location #/Street Name		Existing Grade	Proposed Final Grade	Estimated Finished Grade	Gas Pipe Size	Planned Gas T.O.P. Elevation	From Existing Grade	From Final Grade	From Finished Grade	Facility Description	Top Elevation	Bottom Elevation	Above Prop. Facility	Below Prop. Facility
		~~Sidney Brooks Dr~~	~~128+49~~	~~622.6~~	~~621.2~~	~~620.7~~	~~4PA~~	~~615.3~~	~~7.3~~	~~5.9~~	~~5.4~~	~~Ex 4" Gas~~	~~617.6~~	~~617.3~~	–	~~2.0~~
		~~Sidney Brooks Dr~~	~~128+49~~	~~622.6~~	~~621.2~~	~~620.7~~	~~4PA~~	~~613.8~~	~~8.8~~	~~7.4~~	~~6.9~~	~~Ex 2" Water~~	~~616.0~~	~~615.8~~	–	~~2.0~~
		Sidney Brooks Dr	128+49	622.5	621.3	619.8	4PA	616.1	6.4	5.2	3.7	Prop Illumination	618.3	618.1	–	2.0
		~~Sidney Brooks Dr~~	~~128+80~~	~~621.8~~	~~621.1~~	~~620.6~~	~~6PA~~	~~614.6~~	~~7.3~~	~~6.6~~	~~6.1~~	~~Ex 4" Gas~~	~~616.8~~	~~616.6~~	–	~~2.0~~
		~~Sidney Brooks Dr~~	~~128+89~~	~~621.8~~	~~621.1~~	~~620.6~~	~~6PA~~	~~613.8~~	~~8.0~~	~~7.3~~	~~6.8~~	~~Ex 2" Water~~	~~616.0~~	~~615.8~~	–	~~2.0~~
		Sidney Brooks Dr	129+46	621.6	621.0	620.5	6PA	615.1	6.5	5.9	5.4	Ex 4" Recycled Water	617.4	617.1	–	2.0
		~~Sidney Brooks Dr~~	~~129+73~~	~~622.0~~	~~621.5~~	~~621.0~~	~~6PA~~	~~611.7~~	~~10.3~~	~~9.8~~	~~9.3~~	~~Ex 4" Gas~~	~~614.1~~	~~613.7~~	–	~~2.0~~
		~~Sidney Brooks Dr~~	~~129+76~~	~~621.2~~	~~620.9~~	~~620.4~~	~~4PA~~	~~614.0~~	~~7.2~~	~~6.9~~	~~6.4~~	~~Ex 2" Gas (ABND)~~	~~616.2~~	~~616.0~~	–	~~2.0~~
		Sidney Brooks Dr	129+78	623.5	621.5	618.0	4PA	616.3	7.2	5.2	1.7	Prop Illumination	618.5	618.3	–	2.0
		Sidney Brooks Dr	129+90	621.2	621.0	620.5	6PA	614.7	6.5	6.3	5.8	Ex Unk Water	617.2	616.7	–	2.0
		Sidney Brooks Dr	132+37	617.9	617.8	617.3	6PA	611.4	6.5	6.4	5.9	Ex 6" Recycled Water	613.9	613.4	–	2.0

1

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STATE OF TEXAS
MICHAEL J. GUERRA
95687
LICENSED
PROFESSIONAL ENGINEER

Michael J. Guerra, P.E.
08/12/2025

No.	Drawing Revision	Date
0	Planning Completed	10/30/2024
1	Addendum 04	8/12/2025

Checked By: Date Approved: 08-12-25

Approved By: William T Fey Date Approved: 8/18/2025

Designed By: Alyssa Arizola, aarizola@lja.com, 210-630-6493 — LJA ENGINEERING, INC FRN - F-1386

Map Quadrants: X= 2148447, Y= 13674853

Project No.: G-0272

Job Title: COSA - SIDNEY BROOKS

CPS ENERGY
500 McCULLOUGH
SAN ANTONIO, TX 78215

Job No.: WR # 40759305

8/12/2025

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

Contract Exhibit GAS-6

Scale:
1"=40'

Note To Foreman:

Install 4" bypass at WL1 and tie-in proposed 6PA-SPD before abandoning existing main, use pressure gauges.

SE MILITARY DR
BROOKS CITY BASE, TX 78235
NCB 10879 P-117
BROOKS DEVELOPMENT AUTHOTITY

JOSUE SANCHEZ

SIDNEY BROOKS DR

New Gas Main Relocation Project
Under Construction
Refer to WR#40802126
Caroline at Brooks Apts.

Exist Tree to be Preserved
(See COSA Plans)

Prop Illumination
Pole Foundation

Exist Tree to Remain
(See COSA Plans)

Exist ROW

Prop Overhead Elec
(By Others)

Exist Tree to Remain
(See COSA Plans)

Prop Inlet

Prop ROW

Prop 36" Storm Drain Pipe

Prop 24" Storm
Drain Pipe

Exist 8" Sanitary Sewer

Exist Tree to be Removed
(See COSA Plans)

Proposed Gas Main Offset
STA 107+84.97
42.91' RT

Proposed Gas Main Offset
STA 107+84.97
55.45' RT

Proposed Gas Main Offset
STA 111+42.83
45.18' RT

Exist 16" Water

Prop 24" Storm Drain Pipe

Exist Abandoned 4PA-SPD

Exist 4PA-SPD (By Others)

Two Way Feed

Exist Abandoned 6" Water
(See SAWS Plans)

Prop Inlet

Remove Exist CPTLB

Abandon 4-SPD

Exist 4" Valve

Install 4PA-SPD

Install 6x4 Reducer

Install 6" Tee

Prop Trees

Prop EOP

Prop BOC

Proposed Gas Main Offset
STA 111+41.25
57.00' RT

Proposed Gas Main Offset
STA 111+52.74
55.02' RT

Abandon 6PA-SPD

Exist 6PA-SPD

Two Way Feed

Install
6x4 Reducer

Remove Exist
3" Valve

INSTALL 6PA-SPD

Abandon 3-SPD

Two Way Feed

Prop ROW

Remove
Exist 6" Valve

Install CPTLB

Install 6" Tee

Prop BOS

Tie-in to Exist 3-SPD
STA 111+13.95
57.00' RT

Abandon 6PA-SPD

Install 6" Cap

Remove Exist CPTLB

Exist Abandoned 3-SPD

Exist 6PA-SPD

Exist 3-SPD

Two Way Feed

Exist
3" Valve

JOSUE SANCHEZ

Exist 3-SPD

Two Way Feed

NOT OBSERVED IN FIELD
ADDED PER CPS RECORDS

Proposed Gas Main Offset
STA 107+85.19
54.36' RT

Prop EOP

Prop BOC

Exist 6PA-SPD

Install 6" Cap

Abandon 6PA-SPD

Install 6x6 Branching Saddle

Tie-in to Exist 6PA-SPD
STA 107+85.19
37.38' RT

Install 6PA-SPD

Exist Abandoned
3-SPD

INSTALL 6PA-SPD

Prop Back Sidewalk

Exist 6PA-SPD

Install 6" Tee

Tie-in to Exist 6PA-SPD
STA 108+71.74
55.49' RT

NOT OBSERVED IN FIELD
ADDED PER CPS RECORDS

Note To Foreman:

Minimum 1.25" bypass required or new main must be tied in before existing is abandoned.

Note To Foreman:

Bore Josue Sanchez crossing, 40 LF 6PA-SPD

Abandon 3-SPD

Install 3" Cap

End Tracer Wire

Install 4" Transition Fitting

Install 4x3 Reducer

Install 3"
Stopple Tee

Install 2-32#
Anodes

Install CPTLB

Match Line "A"
STA 113+00
SEE PAGE 8 OF 12

NOTE: Gas Contractor to cad weld tracer wire to steel main

NOTE: CPS Energy inspector must complete "Asbuilt Quantity" and "Manufacturer" columns of each Material Summary Table and add rows for material used that is not listed.

Note To Foreman:

Gas Contractor must restore all existing sidewalks,driveways curbs, pavement, landscaping, etc. to existing or better condition if damaged outside of the project limits.

Note To Foreman:

Elevations of existing utilities are approximate and should be field-verified by contractor prior to gas main installation.

Material Summary Table

Item	Materials Description	Manufacturer	Design Quantity	Asbuilt Quantity	Stock #
1	TEE PE PIPE 6 IN BUTT FUSE		3 EA		1016369
2	CATHODIC PROTECTION TEST LEAD BOX		2 EA		1032940
3	PIPE PLASTIC 6 IN IPS SDR 11 WITH TRACER WIRE		554 LF		1014026
4	BEND PLASTIC 45 DEG 6 IN BUTT FUSE		10 EA		1016365
5	REDUCER 6X4 BUTT FUSE		2 EA		1016364
6	PIPE PLASTIC 4 IN IPS SDR 11 WITH TRACER WIRE		37 LF		1014022
7	BEND PLASTIC 45 DEG 4 IN BUTT FUSE		1 EA		1015675
8	FITTING TRANSITION 4 IN STL TO PLAS		1 EA		1016106
9	REDUCER 4 IN X 3 IN WELD		1 EA		1020369
10	FITTING SHORTSTOP WELDING 3-WAY TEE 3 IN		1 EA		1018482
11	CAP WELD 4 IN		1 EA		1016607
12	CAP WELD 3 IN		2 EA		1016609
13	ANODE MAGNESIUM PKG 21" 32 LB GRADE B		1 EA		1016921
14	BEND PLASTIC 90 DEG 6 IN BUTT FUSE		3 EA		1016366
28	CAP PLASTIC 6 IN BUTT FUSE		3 EA		1016367

STATE OF TEXAS
MICHAEL J. GUERRA
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PROFESSIONAL ENGINEER

Michael J. Guerra, P.E.
08/12/2025

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0	Planning Completed	10/30/2024
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Date Approved: 08-18-25

Approved By: William T Frey

Date Approved: 8/18/2025

Designed By:
Alyssa Arizola
aarizola@lja.com
210-630-6493

LJA ENGINEERING, INC
FRN - F-1386

Map Quadrants
X= 2148447
Y= 13674853

Project No.
G-0272

Job Title
COSA - SIDNEY BROOKS

CPS ENERGY
500 McCULLOUGH
SAN ANTONIO, TX 78215

Job No.
WR # 40759305

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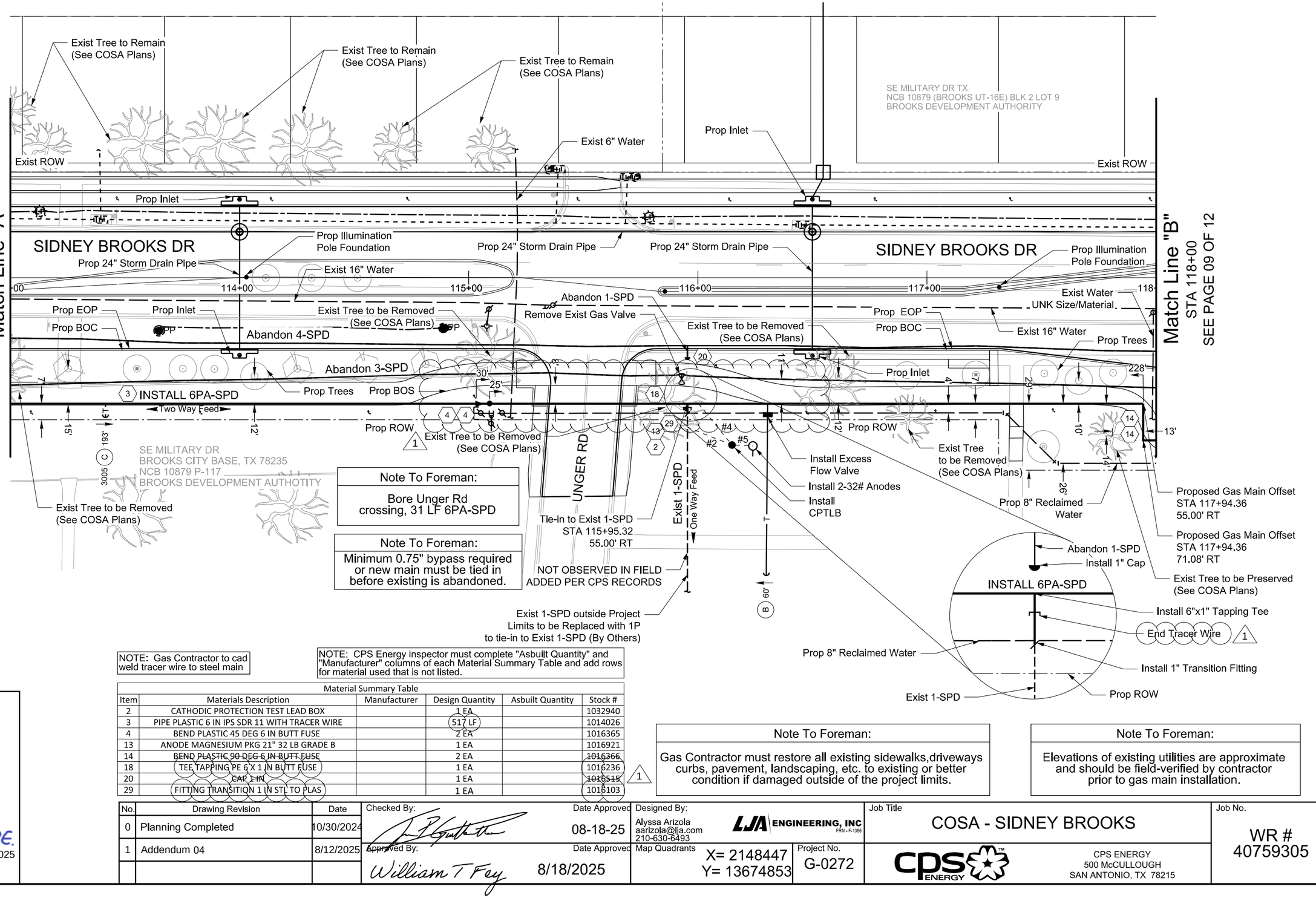
8/12/2025

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

Contract Exhibit GAS-6

Scale:
1"=40'



Note To Foreman:
Bore Unger Rd crossing, 31 LF 6PA-SPD

Note To Foreman:
Minimum 0.75" bypass required or new main must be tied in before existing is abandoned.

NOTE: Gas Contractor to cad weld tracer wire to steel main

NOTE: CPS Energy inspector must complete "Asbuilt Quantity" and "Manufacturer" columns of each Material Summary Table and add rows for material used that is not listed.

Material Summary Table

Item	Materials Description	Manufacturer	Design Quantity	Asbuilt Quantity	Stock #
2	CATHODIC PROTECTION TEST LEAD BOX		1 EA		1032940
3	PIPE PLASTIC 6 IN IPS SDR 11 WITH TRACER WIRE		517 LF		1014026
4	BEND PLASTIC 45 DEG 6 IN BUTT FUSE		2 EA		1016365
13	ANODE MAGNESIUM PKG 21" 32 LB GRADE B		1 EA		1016921
14	BEND PLASTIC 90 DEG 6 IN BUTT FUSE		2 EA		1016366
18	TEE TAPPING PE 6 X 1 IN BUTT FUSE		1 EA		1016236
20	CAP 1 IN		1 EA		1016515
29	FITTING TRANSITION 1 IN STL TO PLAS		1 EA		1016103

Note To Foreman:
Gas Contractor must restore all existing sidewalks,driveways curbs, pavement, landscaping, etc. to existing or better condition if damaged outside of the project limits.

Note To Foreman:
Elevations of existing utilities are approximate and should be field-verified by contractor prior to gas main installation.

STATE OF TEXAS
MICHAEL J. GUERRA
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210-630-6493

LJA ENGINEERING, INC
FRN - F-1386

Map Quadrants X= 2148447 Y= 13674853

Project No. G-0272

Job Title: COSA - SIDNEY BROOKS

CPS ENERGY
500 McCULLOUGH
SAN ANTONIO, TX 78215

Job No. WR # 40759305

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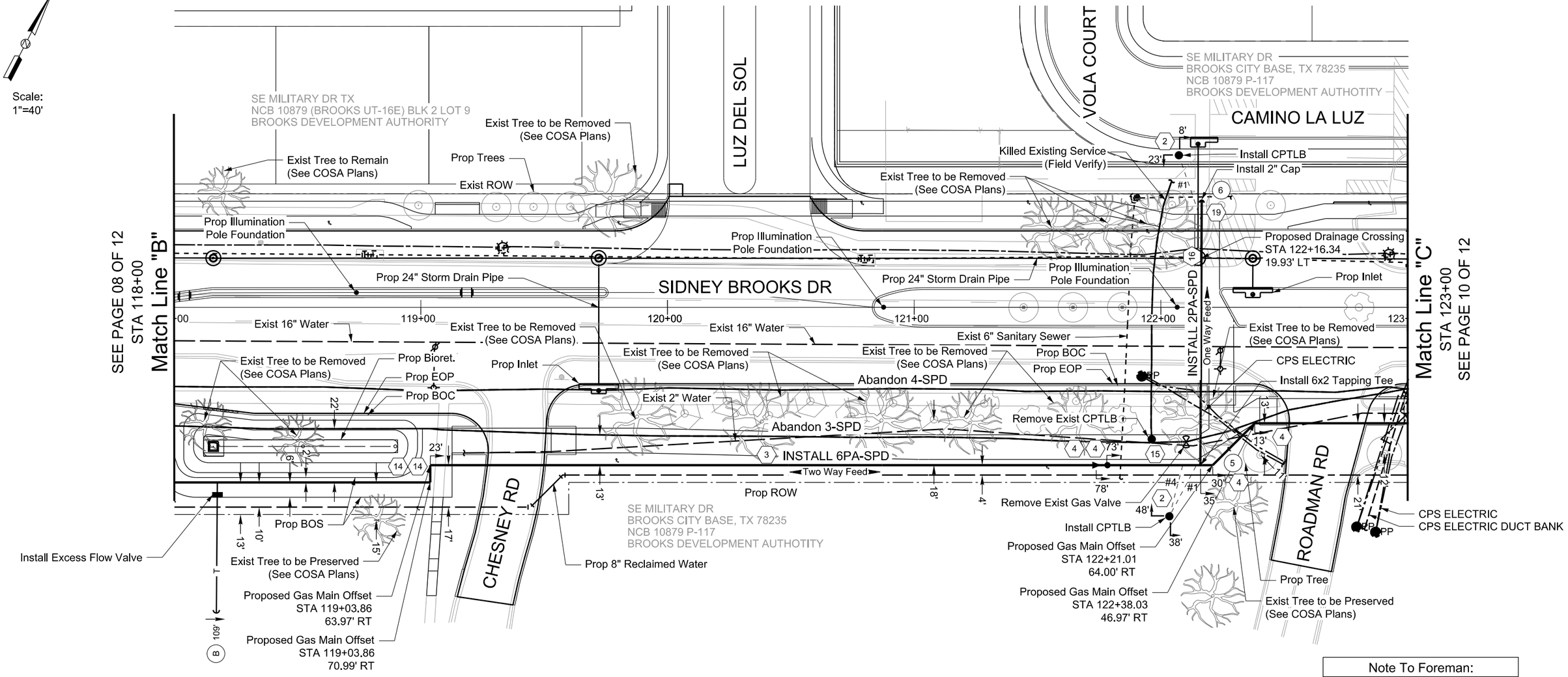
8/12/2025

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

Contract Exhibit GAS-6

Scale:
1"=40'



Note To Foreman:
Elevations of existing utilities are approximate and should be field-verified by contractor prior to gas main installation.

Note To Foreman:
Gas Contractor must restore all existing sidewalks,driveways curbs, pavement, landscaping, etc. to existing or better condition if damaged outside of the project limits.

Note To Foreman:
Bore Roadman Rd crossing, 31 LF 6PA-SPD

NOTE: CPS Energy inspector must complete "Asbuilt Quantity" and "Manufacturer" columns of each Material Summary Table and add rows for material used that is not listed.

Material Summary Table

Item	Materials Description	Manufacturer	Design Quantity	Asbuilt Quantity	Stock #
2	CATHODIC PROTECTION TEST LEAD BOX		2 EA		1032940
3	PIPE PLASTIC 6 IN IPS SDR 11 WITH TRACER WIRE		514 LF		1014026
4	BEND PLASTIC 45 DEG 6 IN BUTT FUSE		4 EA		1016365
14	BEND PLASTIC 90 DEG 6 IN BUTT FUSE		2 EA		1016366
15	TEE TAPPING PLASTIC ELECTROFUSION 6 IN X 2 IN		1 EA		1016303
16	PIPE PLASTIC 2 IN IPS SDR 11 WITH TRACER WIRE		107 LF		1013959
19	CAP PLASTIC 2 IN BUTT FUSE		1 EA		1015673

1

STATE OF TEXAS
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LJA ENGINEERING, INC FRN - F-1386

Map Quadrants X= 2148447 Y= 13674853

Project No. G-0272

Job Title: COSA - SIDNEY BROOKS

CPS ENERGY
CPS ENERGY
500 McCULLOUGH
SAN ANTONIO, TX 78215

Job No. WR # 40759305

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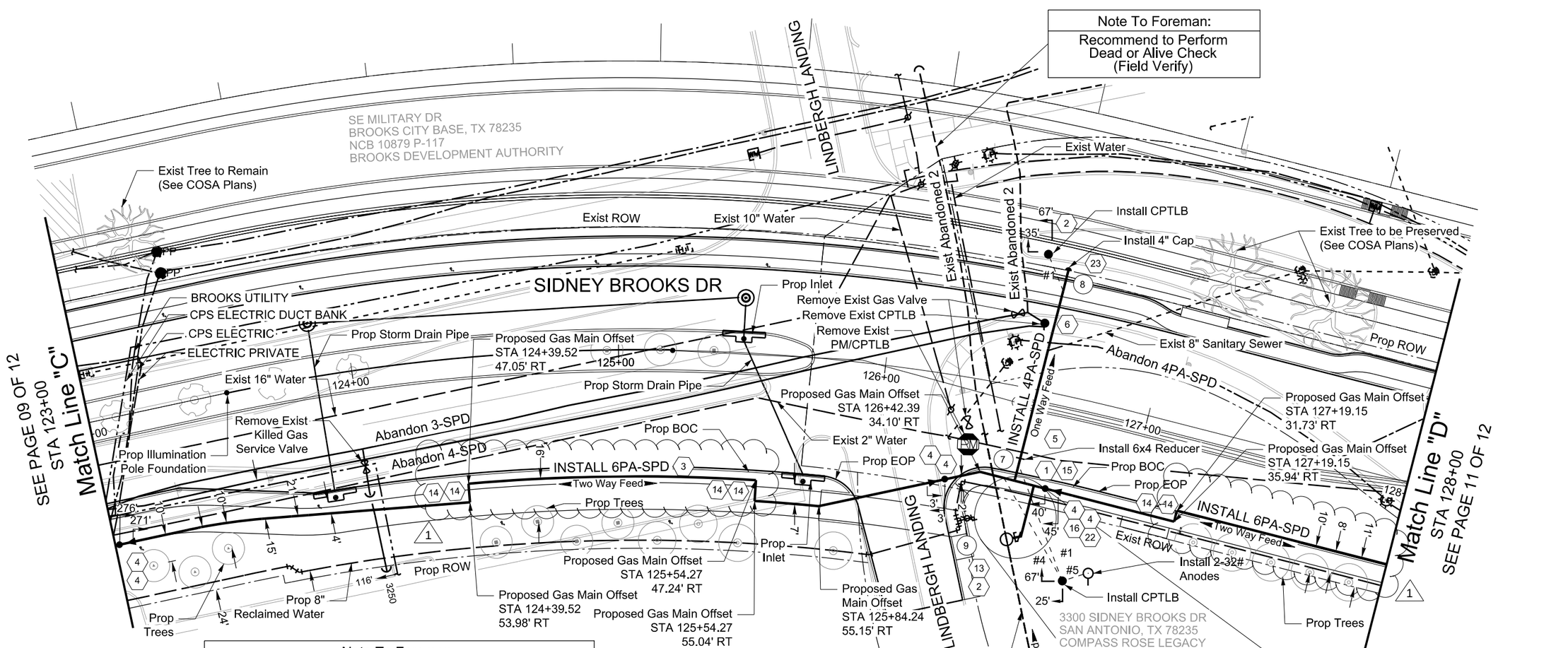
8/12/2025

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

Contract Exhibit GAS-6

Scale:
1"=40'



Note To Foreman:

Elevations of existing utilities are approximate and should be field-verified by contractor prior to gas main installation.

Note To Foreman:

Gas Contractor must restore all existing sidewalks,driveways curbs, pavement, landscaping, etc. to existing or better condition if damaged outside of the project limits.

Note To Foreman:

Bore Lindbergh Landing crossing, 40 LF 6PA-SPD

Note To Foreman:

Minimum 1.25" bypass required or new main must be tied in before existing is abandoned.

NOTE: Gas Contractor to cad weld tracer wire to steel main

Material Summary Table

Item	Materials Description	Manufacturer	Design Quantity	Asbuilt Quantity	Stock #
1	TEE PE PIPE 6 IN BUTT FUSE		1 EA		1016369
2	CATHODIC PROTECTION TEST LEAD BOX		2 EA		1032940
3	PIPE PLASTIC 6 IN IPS SDR 11 WITH TRACER WIRE		510 LF		1014026
4	BEND PLASTIC 45 DEG 6 IN BUTT FUSE		6 EA		1016365
5	REDUCER 6X4 BUTT FUSE		1 EA		1016364
6	PIPE PLASTIC 4 IN IPS SDR 11 WITH TRACER WIRE		73 LF		1014022
13	ANODE MAGNESIUM PKG 21" 32 LB GRADE B		1 EA		1016921
14	BEND PLASTIC 90 DEG 6 IN BUTT FUSE		6 EA		1016366
15	TEE TAPPING PLASTIC ELECTROFUSION 6 IN X 2 IN		1 EA		1016303
16	PIPE PLASTIC 2 IN IPS SDR 11 WITH TRACER WIRE		26 LF		1013959
22	FITTING TRANSITION 2 IN STL TO PLAS		1 EA		1016105
23	CAP PLASTIC 4 IN BUTT FUSE		1 EA		1015674

1 NOTE: CPS Energy inspector must complete "Asbuilt Quantity" and "Manufacturer" columns of each Material Summary Table and add rows for material used that is not listed.

STATE OF TEXAS
MICHAEL J. GUERRA
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PROFESSIONAL ENGINEER

P.E.
08/12/2025

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Approved By: William T Fey Date Approved 8/18/2025

Designed By: Alyssa Arizola aarizola@lja.com 210-630-6493

LJA ENGINEERING, INC FRN - F-1386

Map Quadrants X= 2148447 Y= 13674853

Project No. G-0272

Job Title: COSA - SIDNEY BROOKS

CPS ENERGY 500 McCULLOUGH SAN ANTONIO, TX 78215

Job No. WR # 40759305

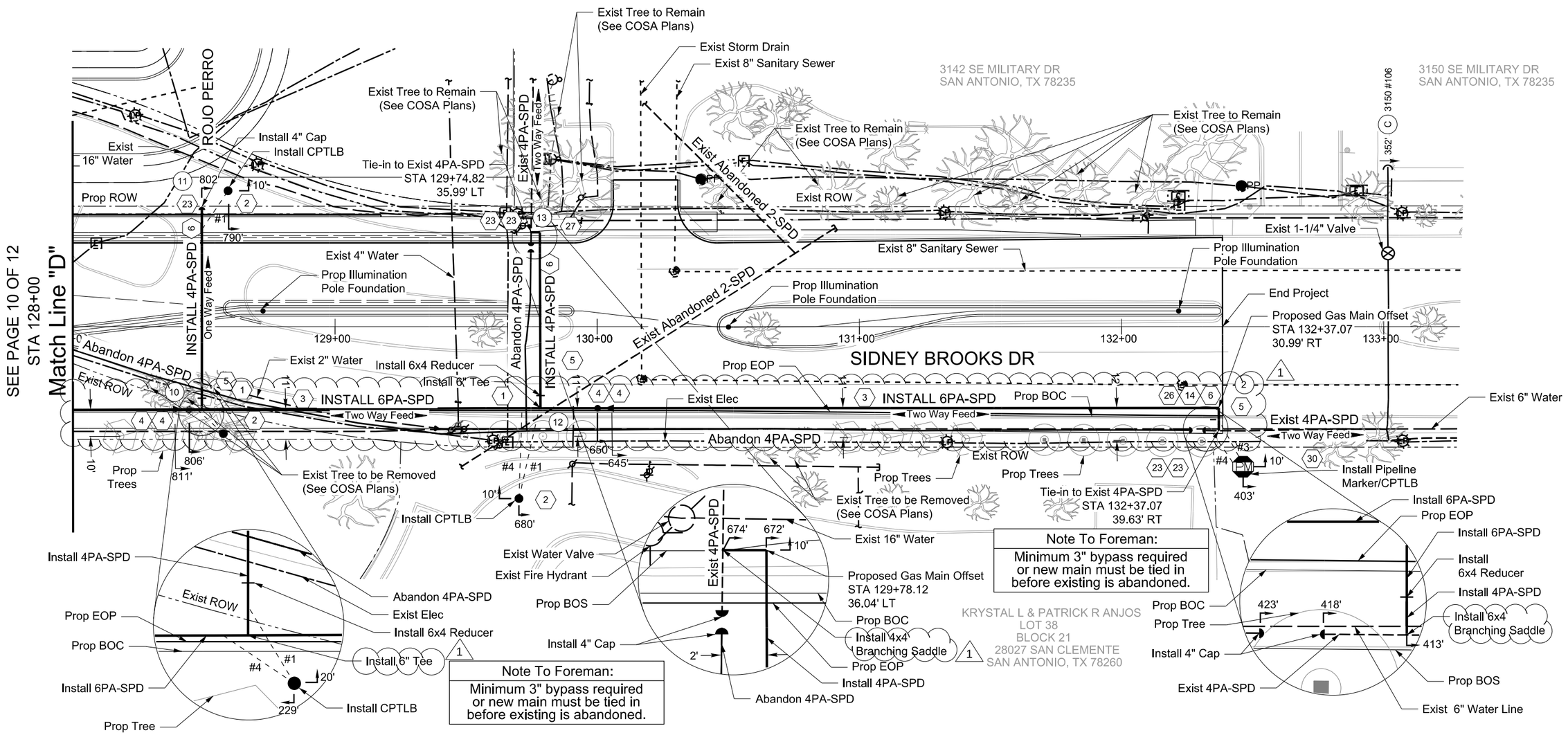
K:\SA1351 CPS Energy\Gas Engineering\COSA\2402 - Sidney Brooks (WR 40759305)\CADD\Plan Set\GAS*PLAN*4.dgn

8/12/2025

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

Contract Exhibit GAS-6

Scale:
1"=40'



Material Summary Table					
Item	Materials Description	Manufacturer	Design Quantity	Asbuilt Quantity	Stock #
1	TEE PE PIPE 6 IN BUTT FUSE		2 EA		1016369
2	CATHODIC PROTECTION TEST LEAD BOX		3 EA		1032940
3	PIPE PLASTIC 6 IN IPS SDR 11 WITH TRACER WIRE		452 LF		1014026
4	BEND PLASTIC 45 DEG 6 IN BUTT FUSE		4 EA		1016365
5	REDUCER 6X4 BUTT FUSE		3 EA		1016364
6	PIPE PLASTIC 4 IN IPS SDR 11 WITH TRACER WIRE		143 LF		1014022
14	BEND PLASTIC 90 DEG 6 IN BUTT FUSE		1 EA		1016366
23	CAP PLASTIC 4 IN BUTT FUSE		5 EA		1015674
26	SADDLE BRANCH PE 6X4 IN BUTT FUSE		1 EA		1016233
27	BEND PLASTIC 90 DEG 4 IN BUTT FUSE		1 EA		1015800
30	PIPELINE MARKER/CP TEST STATION 3-1/2 IN		1 EA		1011088

NOTE: CPS Energy inspector must complete "Asbuilt Quantity" and "Manufacturer" columns of each Material Summary Table and add rows for material used that is not listed.

Note To Foreman:

Gas Contractor must restore all existing sidewalks,driveways curbs, pavement, landscaping, etc. to existing or better condition if damaged outside of the project limits.

Note To Foreman:

Elevations of existing utilities are approximate and should be field-verified by contractor prior to gas main installation.

STATE OF TEXAS
MICHAEL J. GUERRA
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Michael J. Guerra, P.E.
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LJA ENGINEERING, INC FRN - F-1386

Map Quadrants X= 2148447 Y= 13674853

Project No. G-0272

Job Title: COSA - SIDNEY BROOKS

CPS ENERGY
500 McCULLOUGH
SAN ANTONIO, TX 78215

Job No. WR # 40759305

Page 11 of 12

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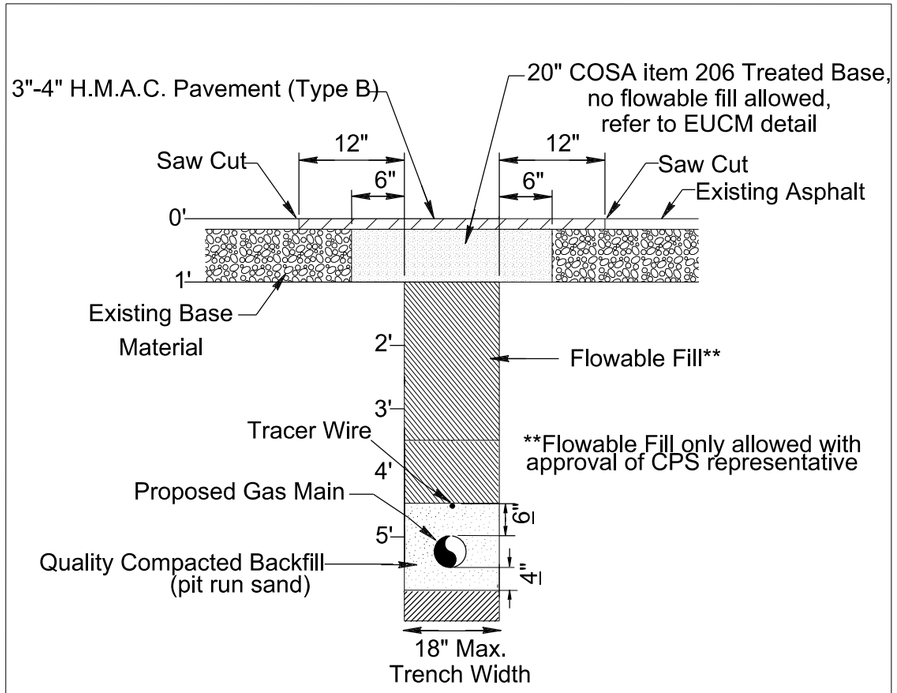
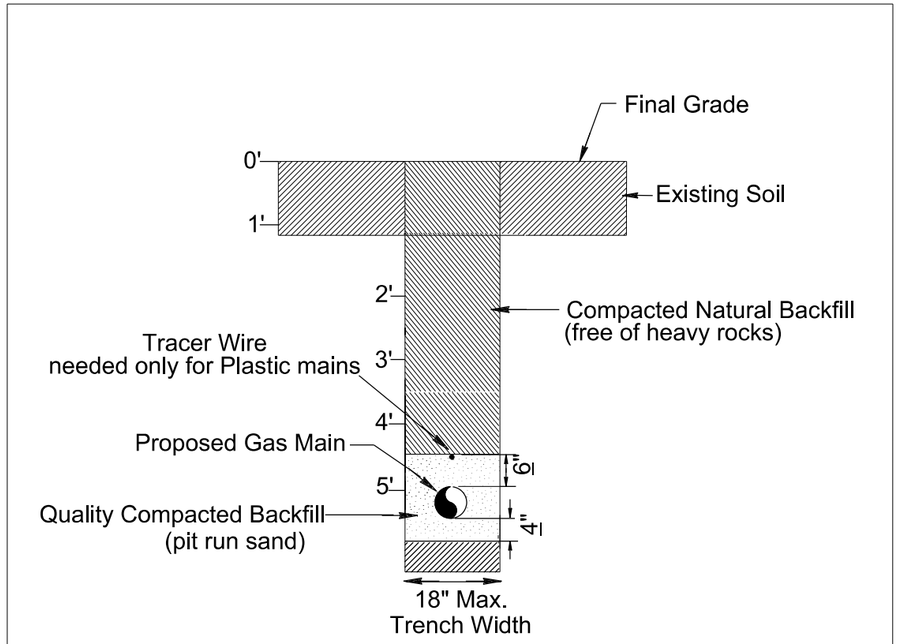
8/12/2025



Trench & Backfill Detail Under Pavement



Trench Detail For Earth Excavation Only

BARLOW EQUATION FOR PLASTIC PIPE	$P = 2S\frac{t}{(D-t)}(DF)$
D = OUTSIDE PIPE DIAMETER (in)	8.625
t = WALL THICKNESS (in)	0.784
DF = 0.40, PER CFR 192.121	0.4
S = HDB AT 73° F (psi)	1600
P = MAOP (psig)	128

OMIT 1

STATE OF TEXAS
MICHAEL J. GUERRA
95687
LICENSED PROFESSIONAL ENGINEER
P.E.
08/12/2025

No.	Drawing Revision	Date
0	Planning Completed	10/30/2024
1	Addendum 04	8/12/2025

Checked By: Date Approved 08-18-25
Approved By: William T Fey Date Approved 8/18/2025

Designed By: Alyssa Arizola aarizola@lja.com 210-630-6493
LJA ENGINEERING, INC FRN - F-1386
Map Quadrants X= 2148447 Y= 13674853
Project No. G-0272

Job Title: COSA - SIDNEY BROOKS
CPS ENERGY 500 McCULLOUGH SAN ANTONIO, TX 78215

Job No. WR # 40759305

K:\SA1351 CPS Energy\Gas Engineering\COSA\2402 - Sidney Brooks (WR 40759305)\CADD\Plan Set\Last-StandardDetails.dgn
8/12/2025

CITY OF SAN ANTONIO

025 UNIT PRICING FORM

PROJECT NAME: SIDNEY BROOKS (CITY BASE LAND - S NEW BRAUNFELS) 2022 BOND

PROJECT NO.: 23-03916

ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE
1	CPS GAS	1014026	PIPE PLASTIC 6" IPS SDR 11 WITH TRACER WIRE	LF	2547	
2	CPS GAS	1014022	PIPE PLASTIC 4" IPS SDR 11 WITH TRACER WIRE	LF	253	
3	CPS GAS	1013959	PIPE PLASTIC 2" IPS SDR 11 WITH TRACER WIRE	LF	133	
ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE
7023-7023	SAWS-RW		REMOVE EXISTING WATER LINE (2 IN)	LF	0	
7023-XXXX	SAWS-RW		REMOVE EXISTING WATER LINE (4 IN)	LF	0	