



Luensmann Offsite Water Main Ext PH1
Solicitation Number: CO-00717
Job No.: 23-1043

ADDENDUM 1
11/16/2023

To Bidder of Record:

This addendum, applicable to work referenced above, is an amendment to the bid proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided in submitted copies of the bid proposal.

RESPONSES TO QUESTIONS

- Question:** On plan sheet 3.00. Remove 60 LF 16" AC main. 1+00 begin 16" PVC water main. What is this going to tie into? +/- Station 1+75 remove 153 LF AC main. It's confusing what exactly is going on between Station 0+52.33 and station 2+27.88?

Response: See Changes to the Plans #2. Sheet C3.00 has been revised to clarify the work within this area. The main at 1+00 ties into the existing main crossing US 87 (SAWS job no. 83-1385). The revised sheet shows new main being placed between 0+52.33 and 2+27.88. See Changes to the Specifications #1. The quantity for "16" PVC C-900 (DR 18) Pipe (Open Cut)" has been updated accordingly.

- Question:** Will Ductile Iron Pipe PC200 (SAWS Spec 05-11) be allowed as an alternate to PVC pipe?

Response: Ductile iron pipe will be allowed as an alternate to PVC pipe. See Changes to the Specifications #1. The Bid Proposal has been revised to include the option to provide pricing for ductile iron pipe.

- Question:** Due to the hot soils, will "Zinc" Coating be required on ductile Iron pipe or if ductile is allowed may "ZINC" coating be added to pipe requirement, adding additional corrosion protection?

Response: Zinc coating is not a requirement for ductile iron pipe. For protection against corrosion of ductile iron pipe, instead of a zinc coating please reference SAWS specification 814.

- Question:** Please furnish a detail of the proposed concrete encasements installed around the proposed water main.

Response: Refer to the details provided with SAWS specification 858.

- Question:** Will a staging area be provided?

Response: A staging area may be set up by the contractor within the limits of the permanent sewer easement or temporary construction easement as needed. The decision as to the necessity, size, and location of the staging area will be left to the contractor.

6. **Question:** Is a construction entrance required?

Response: Construction entrance locations and designs shall be determined by the contractor provided they don't encroach onto private property outside of the established permanent sewer or temporary construction easements.

7. **Question:** Will an office trailer be required?

Response: No, an office trailer is not required. The decision as to whether or not an office trailer will be used will be left to the contractor.

8. **Question:** Can trees be cleared in the temporary construction easement?

Response: The contractor may only clear trees identified to be removed per the provided Tree Preservation Plan sheets.

9. **Question:** Is HDPE an acceptable alternative?

Response: HDPE pipe will be allowed as an alternate to PVC pipe. See Changes to the Specifications #1. The Bid Proposal has been revised to include the option to provide pricing for HDPE pipe.

10. **Question:** Is there a boring log?

Response: No boring log is available.

11. **Question:** Are there any boring logs available for this project?

Response: See response to Question 10.

12. **Question:** Is a floodplain development permit required for this project?

Response: Yes. A Bexar County Floodplain Development Permit is required for this project but that has been obtained and will be provided to the selected contractor.

13. **Question:** What are the access points along Kirkner Road as there don't seem to be any gates?

Response: See Changes to the Plans #8. A gate has been added to sheet C3.06 to accommodate access from Kirkner Road.

14. **Question:** Is there a location where the contractor can establish a small yard to stockpile pipe and materials?

Response: The contractor will be able to utilize both the permanent sewer easement and the temporary construction easement for storage of pipe and other materials. The size and location of this area will be determined by the selected contractor.

15. **Question:** Bid item 1 – Repair of Concrete Pavement (Full Depth) (TxDOT Spec) has a quantity of 76 CY per the Bid Form. Should that be 76 SY as the quantity on sheet C3.14 shows 76 SY on the quantity table?

Response: See Changes to the Specifications #1. The quantity for that line item is now "SY."

16. **Question:** Bid item #16, spec 828-24" MJ butterfly valves. The Bid Proposal and plan sheets are calling out for MJ & flanged butterfly valves. SAWS has required flanged butterfly valves on 20" and larger valves under spec 830, Butterfly Valves. Are the 24" butterfly valves for this project going to allow MJ connections instead of flange connections per SAWS construction spec DD-830-02, Butterfly Valve Assembly?

Response: Flanged butterfly valves will be required. See Changes to the Specifications #1 and Changes to the Plans #1 through #17. The Bid Proposal and plans have been revised to reference as such.

17. **Question:** The general notes call out for the contractor to machine chlorinate the water line. Will the location of the chlorination assembly be added to the plans and bid proposal.

Response: Per SAWS Specification 847, Disinfection, this work is considered subsidiary to the work and no separate measurement will be made by the Contractor for this work.

18. **Question:** Will SAWS provide access to the proposed water line from station 83+00 through 154+00 to visually inspect for rock out cropping, cross fencing, brush clearing, etc? This area appears to have multiple property owners without public access to the site.

Response: Prospective bidders will need to contact the property owners in question regarding access to the site for a pre-bid field visit. During construction the temporary and permanent easements obtained will grant the selected contractor access to these areas.

19. **Question:** In order to secure material pricing, when is the anticipated award date and notice to proceed date?

Response: This project is anticipated to be considered by the SAWS Board of Trustees at the January 2024 meeting. Per the Supplemental Conditions bidders shall assume a notice to proceed date of February 2, 2024.

20. **Question:** Have all the temporary and permanent easements been obtained by SAWS?

Response: Yes, all these have been obtained.

21. **Question:** Will SAWS provide a copy of the Geotechnical Data Report prepared by HVJ South Central Texas – M&J, Inc., dated August 3, 2023?

Response: No Geotechnical Data Report will be made available for this project. See Changes to the Specifications #3. The reference to the above Geotechnical Data Report has been removed from the bid documents.

22. **Question:** It appears the entire width of the gravel driveways will be damaged and need to be replaced. Will the full width be paid for or what are the pay limits SAWS will pay for? What is the depth of the flex base for the driveways?

Response: The quantity for Gravel Driveway on the Bid Form includes the full width of the gravel driveway. The depth of the flex base can be assumed to be 6" minimum.

23. **Question:** Is seeding required wherever there has been disturbance within the easement (temporary and permanent) or just at the designated revegetated areas on the plans?

Response: Seeding is required throughout the entirety of the temporary and permanent easements. See Changes to the Specifications #1. The quantity for Revegetation has been revised to a square yardage instead of a lump sum.

24. **Question:** The water line construction will take up the full width of the existing driveways on sheets C3.08, C3.09, and C3.11. Are there alternate routes the property owners can use during this construction?

Response: Yes, the property owners utilizing the driveways labeled to be replaced on sheets C3.08, C3.09, and C3.11 have alternate routes available to them to access those properties.

25. **Question:** On sheet C3.00 the call out says to connect to the existing 16" AC main at the tee, but then it also says to remove 60 LF of the AC main. If the existing main is removed then the jumper would need to remain in place permanently since there is nothing stating to replace that 60 LF with new PVC main.

Response: See response to question #1. The revised sheet now includes permanent water main installation for the 60 LF length mentioned above.

26. **Question:** Where is the fence repair at Station 4+47 being paid for as it is not called out on the plans?

Response: See Changes to the Plans #2. Sheet C3.00 has been revised to show the removal and replacement of 73 LF of wire fence. See Changes to the Specifications #1. The quantities for "Fence Gate 16' Type 1" and "Remove and Replace Existing Fence" have been updated accordingly.

CHANGES TO THE SPECIFICATIONS

1. Remove the Bid Proposal in its entirety and replace with the attached revised Bid Proposal. The quantity for "16" PVC C-900 (DR 18) Pipe (Open Cut)" has been updated. "The quantity for line item 1 has been revised to read "SY." The option to provide bids for ductile iron pipe has been added. The line item for butterfly valves has been revised to remove the reference to MJ. The quantity for Revegetation has been revised to a square yardage instead of a lump sum. The quantities for "Fence Gate 16' Type 1" and "Remove and Replace Existing Fence" have been updated. Bidders shall use the revised bid proposal when submitting a bid for this project. Failure to use the revised version may result in the bid being found non-responsive.
2. Due to updates in the General Wage Decisions for Building Construction Type, remove the wage decision document from the solicitation in entirety and replace with revised version (rev. 10/27/2023 for General Decision Number TX20230231). This version should be utilized by the awarded contractor for the project.
3. **Remove** Supplemental Specification SS 2140 in its entirety and **replace** with the version attached to this addendum. Reference to an existing geotechnical report has been removed.

CHANGES TO THE PLANS

1. Sheet C2.00: Sheet Index – Remove in its entirety and replace with the attached document.
 - Revised Quantity Table
2. Sheet C3.00: Water Main Plan and Profile Sta 1+00 to 12+00 – Remove in its entirety and replace with the attached document.

- Revised note to remove and replace AC water main.
 - Revised 24" Butterfly valve to be Flanged.
 - Updated quantity table for additional LF of 16" PVC C900 and add Remove and replace fence.
3. Sheet C3.01: Water Main Plan and Profile Sta 12+00 to 23+00 – Remove in its entirety and replace with the attached document.
 - Revised 24" Butterfly valve to be Flanged.
 4. Sheet C3.02: Water Main Plan and Profile Sta 23+00 to 34+00 – Remove in its entirety and replace with the attached document.
 - Revised 24" Butterfly valve to be Flanged.
 5. Sheet C3.03: Water Main Plan and Profile Sta 34+00 to 45+00 – Remove in its entirety and replace with the attached document.
 - Revised 24" Butterfly valve to be Flanged.
 6. Sheet C3.04: Water Main Plan and Profile Sta 45+00 to 56+00 – Remove in its entirety and replace with the attached document.
 - Revised 24" Butterfly valve to be Flanged.
 7. Sheet C3.05: Water Main Plan and Profile Sta 56+00 to 67+00 – Remove in its entirety and replace with the attached document.
 - Revised 24" Butterfly valve to be Flanged.
 8. Sheet C3.06: Water Main Plan and Profile Sta 67+00 to 78+00 – Remove in its entirety and replace with the attached document.
 - Updated quantity table to add a Fence Gate Type 1
 - Revised 24" Butterfly valve to be Flanged.
 9. Sheet C3.07: Water Main Plan and Profile Sta 78+00 to 89+00 – Remove in its entirety and replace with the attached document.
 - Revised 24" Butterfly valve to be Flanged.
 10. Sheet C3.08: Water Main Plan and Profile Sta 89+00 to 100+00 – Remove in its entirety and replace with the attached document.
 - Updated quantity table to add a Fence Gate Type 1 and Remove and Replace Existing Fence
 - Revised 24" Butterfly valve to be Flanged.
 11. Sheet C3.09: Water Main Plan and Profile Sta 100+00 to 111+00 – Remove in its entirety and replace with the attached document.
 - Updated quantity table to add a Fence Gate Type 1 and Remove and Replace Existing Fence
 12. Sheet C3.09: Water Main Plan and Profile Sta 100+00 to 111+00 – Remove in its entirety and replace with the attached document.
 - Updated quantity table to add a Fence Gate Type 1 and Remove and Replace Existing Fence
 - Revised 24" Butterfly valve to be Flanged.
 13. Sheet C3.10: Water Main Plan and Profile Sta 111+00 to 121+500 – Remove in its entirety and replace with the attached document.
 - Updated quantity table to add a Fence Gate Type 1 and Remove and Replace Existing Fence
 - Revised 24" Butterfly valve to be Flanged.
 14. Sheet C3.11: Water Main Plan and Profile Sta 121+50 to 132+50 – Remove in its entirety and replace with the attached document.
 - Updated quantity table to add a Fence Gate Type 1 and Remove and Replace Existing Fence
 - Revised 24" Butterfly valve to be Flanged.
 15. Sheet C3.12: Water Main Plan and Profile Sta 132+50 to 141+50 – Remove in its entirety and replace with the attached document.
 - Updated quantity table to add a Fence Gate Type 1 and Remove and Replace Existing Fence
 - Revised 24" Butterfly valve to be Flanged.
 16. Sheet C3.13: Water Main Plan and Profile Sta 141+50 to 151+00 – Remove in its entirety and replace with the attached document.

- Updated quantity table to add a Fence Gate Type 1 and Remove and Replace Existing Fence
 - Revised 24" Butterfly valve to be Flanged.
17. Sheet C3.14: Water Main Plan and Profile Sta 151+00 to 154+00 – Remove in its entirety and replace with the attached document.
- Updated quantity table to add a Fence Gate Type 1 and Remove and Replace Existing Fence
 - Revised 24" Butterfly valve to be Flanged.

END OF ADDENDUM

This Addendum, including these six (6) pages, is forty-three (43) pages with attachments in its entirety.

Attachments:

- Bid Proposal (3 pages)
- General Wage Decision Number TX20230231 (rev. 10/27/2023) (7 pages)
- Supplemental Specification SS 2140 (11 pages)
- Sheet C2.00 (1 page)
- Sheets C3.00 through C3.14 (15 pages)



BID PROPOSAL

PROPOSAL OF _____, a corporation
a partnership consisting of _____
an individual doing business as _____

THE SAN ANTONIO WATER SYSTEM:

Pursuant to Instructions and Invitation to Bidders, the undersigned proposes to furnish all labor and materials as specified and perform the work required for the project as specified, in accordance with the Plans and Specifications for the following prices in the bid proposal to wit:

PLEASE SEE ATTACHED LIST OF BID ITEMS.

BIDDER'S SIGNATURE & TITLE

FIRM'S NAME (TYPE OR PRINT)

FIRM'S ADDRESS

FIRM'S PHONE NO. /FAX NO.

FIRM'S EMAIL ADDRESS

The Contractor herein acknowledges receipt of the following: **Addendum No(s)**. _____

OWNER RESERVES THE RIGHT TO ACCEPT THE OVERALL MOST RESPONSIBLE BID.

The Bidder offers to construct the Project in accordance with the Contract Documents for the contract price, and to complete the Project within **245** calendar days after the start date, as set forth in the Authorization to Proceed. **The bidder understands and accepts the provisions of the contract Documents relating to liquidated damages of the project if not completed on time.**

Complete the additional requirements of the Bid Proposal which are included on the following pages.

Statement on President's Executive Orders

Has your firm previously performed work subject to the President's Executive Orders Numbers 11246 and 11375 or any preceding similar executive orders (Numbers 10925 and 11114)? Yes No

Texas Government Code Chapter 2274 Verifications

- (1) Are you, Contractor, held or controlled by individuals who are citizens of China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274? Yes No
- (2) Are you, Contractor, held or controlled by a company or other entity, including a governmental entity, that is owned or controlled by citizens of or directly controlled by the government of China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274? Yes No
- (3) Are you, Contractor, headquartered in China, Iran, North Korea, Russia or a country designated by the Governor of the State of Texas pursuant to Texas Government Code Chapter 2274? Yes No

Line Items						
Line No.	Item No.	Item Description	Unit	Quantity	Unit Price	Total
1	361	Repair of Concrete Pavement (Full Depth) (TxDOT Spec)	SY	76		
2	401	Flowable Backfill (TxDOT Spec)	CY	56		
3	502	Barricades, Signs and Traffic Handling (TxDOT Spec)	LS	1		
4	503.5	Gravel Driveway	SY	2,387		
5	507	16' Fence Gate, Type 1	EA	9		
6	508	Remove and Replace Existing Fence	LF	590		
7	520	Revegetation	SY	68,220		
8	530	Barricades, Signs and Traffic Handling (COSA Spec)	LS	1		
9	540	SWPPP	LS	1		
10	550	Trench Excavation Protection	LF	15,079		
FOR ITEMS 11 THROUGH 19 BIDDERS WILL EITHER PROVIDE A BID FOR 814, 815, OR 818, NOT MULTIPLE ITEMS						
11	818	12" PVC C-900 (DR 18) Pipe (Open Cut)	LF	15		
12	818	16" PVC C-900 (DR 18) Pipe (Open Cut)	LF	172		
13	818	24" PVC C-900 (DR 18) Pipe (Open Cut)	LF	14,892		
14	814	12" Ductile Iron Pipe (Open Cut)	LF	15		
15	814	16" Ductile Iron Pipe (Open Cut)	LF	172		
16	814	24" Ductile Iron Pipe (Open Cut)	LF	14,892		
17	815	12" HDPE Pipe (Open Cut)	LF	15		
18	815	16" HDPE Pipe (Open Cut)	LF	172		
19	815	24" HDPE Pipe (Open Cut)	LF	14,892		
20	828	12" Gate Valve, MJ w/6" Valve Box, Complete	EA	3		
21	828	16" Gate Valve, MJ w/6" Valve Box, Complete	EA	2		
22	830	24" Butterfly Valve w/6" Valve Box, Complete	EA	25		
23	834	Standard Fire Hydrant Assembly	EA	10		
24	836	Ductile Iron Fittings	TON	8.83		
25	840	Water Tie-in to 16" Main	EA	1		
26	840	Water Tie-in to 12" Main	EA	2		
27	840	Water Tie-in to 8" Main	EA	2		
28	841	Hydrostatic Testing	EA	6		
29	844	2" Temporary Blow-Off Assembly	EA	6		
30	844	4" Permanent Blow-Off Assembly	EA	1		
31	846	2" Combination ARV Assembly	EA	6		
32	856.1	48" Jack and Bore Tunneling	LF	435		
33	856.2	48" Steel Casing	LF	435		

FOR ITEMS 34 THROUGH 36 BIDDERS WILL EITHER PROVIDE A BID FOR 814, 815, OR 818, NOT MULTIPLE ITEMS						
34	818	24" PVC C-900 (DR 18) Carrier Pipe	LF	435		
35	814	24" Ductile Iron Carrier Pipe	LF	435		
36	815	24" HDPE Carrier Pipe	LF	435		
37	858	Concrete Encasement	CY	231		
38	3000	Remove Asbestos Cement Pipe	LF	213		
39	3100	12" Temporary Water Line, Including Fittings, Tie-ins, and all Appurtenances	LF	197		
40	6001	Portable Changeable Message Sign (TxDOT Spec)	EA	1		
SUBTOTAL (ITEMS 1 - 40)						

41	100	Mobilization Maximum 10% of line items 1-40	LS	1		
42	102	Intermediate Mobilization and Demobilization	LS	1		
43	101	Preparation of Right-of-Way - This item shall include preparing the right-of-way for construction operations by removing and disposing all obstructions from the right-of-way and from designated easements where removal of such obstructions is not otherwise provided for in the contract documents. Maximum 5% of line items 1-40	LS	1		
TOTAL BID PRICE (TO INCLUDE LINE ITEMS 1- 40)						

MOBILIZATION LUMP SUM BID SHALL BE LIMITED TO A MAXIMUM OF 10% OF THE LINE ITEM "1-40" SUB-TOTAL BASE BID AMOUNT. PREPARING RIGHT-OF-WAY LUMP SUM BID SHALL BE LIMITED TO A MAXIMUM OF 5% OF THE LINE ITEM "1-40" SUB-TOTAL BASE BID AMOUNT. THE LINE ITEM "1-40" SUB-TOTAL BASE BID IS DEFINED AS ALL BID ITEMS EXCLUDING ITEM 100, MOBILIZATION AND ITEM 101, PREPARATION OF RIGHT-OF-WAY. IN THE EVENT OF A DISCREPANCY BETWEEN THE WRITTEN PERCENTAGE AND DOLLAR AMOUNT SHOWN FOR MOBILIZATION AND PREPARATION OF ROW BID ITEMS THE WRITTEN PERCENTAGE WILL GOVERN. IF THE PERCENTAGE WRITTEN EXCEEDS THE ALLOWABLE MAXIMUM STATED FOR MOBILIZATION AND OR PREPARATION OF ROW, SAWS RESERVES THE RIGHT TO CAP THE AMOUNT AT THE PERCENTAGES SHOWN AND ADJUST THE EXTENSIONS OF THE BID ITEMS ACCORDINGLY.

"General Decision Number: TX20230231 10/27/2023

Superseded General Decision Number: TX20220231

State: Texas

Construction Type: Building

County: Bexar County in Texas.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022: Executive Order 14026 generally applies to the contract. The contractor must pay all covered workers at least \$16.20 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 2023.

If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022: Executive Order 13658 generally applies to the contract. The contractor must pay all covered workers at least \$12.15 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2023.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/06/2023
1	01/13/2023

2	02/03/2023
3	04/14/2023
4	08/25/2023
5	09/01/2023
6	10/13/2023
7	10/27/2023

ASBE0087-014 06/04/2023

Rates Fringes

ASBESTOS WORKER/HEAT & FROST
INSULATOR (Duct, Pipe and
Mechanical System Insulation)....\$ 28.95 8.39

BOIL0074-003 07/01/2023

Rates Fringes

BOILERMAKER.....\$ 37.00 24.64

* ELEC0060-003 06/05/2023

Rates Fringes

ELECTRICIAN (Communication
Technician Only).....\$ 33.00 18%+5.45

* ELEC0060-004 06/05/2023

Rates Fringes

ELECTRICIAN (Excludes Low
Voltage Wiring).....\$ 33.00 18%+5.45

ELEV0081-001 01/01/2023

Rates Fringes

ELEVATOR MECHANIC.....\$ 46.83 37.335+a+b

FOOTNOTES:

a. 6% under 5 years based on regular hourly rate for all hours worked. 8% over 5 years based on regular hourly rate for all hours worked.

b. Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Friday after Thanksgiving Day; Christmas Day; and Veterans Day.

ENGI0450-002 04/01/2014

Rates Fringes

POWER EQUIPMENT OPERATOR
Cranes.....\$ 34.85 9.85

IRON0066-013 06/01/2023

Rates Fringes

IRONWORKER, STRUCTURAL.....\$ 26.00 7.53

IRON0084-011 06/01/2023

	Rates	Fringes
IRONWORKER, ORNAMENTAL.....	\$ 27.51	8.13

PLUM0142-009 07/01/2023

	Rates	Fringes
HVAC MECHANIC (Electrical Temperature Control Installation & Unit Installation Only).....	\$ 35.95	11.25
PIPEFITTER (Including HVAC Pipe Installation).....	\$ 35.95	11.25
PLUMBER..... Including HVAC Pipe Installation Excludes HVAC Pipe Installation	\$ 35.95	11.25

SFTX0669-002 04/01/2023

	Rates	Fringes
SPRINKLER FITTER (Fire Sprinklers).....	\$ 34.60	23.30

SHEE0067-004 07/03/2023

	Rates	Fringes
Sheet metal worker Excludes HVAC Duct Installation.....	\$ 30.24	15.89
HVAC Duct Installation Only..	\$ 30.24	15.89

* SUTX2014-006 07/21/2014

	Rates	Fringes
BRICKLAYER.....	\$ 22.15	0.00
CARPENTER (Acoustical Ceiling Installation Only).....	\$ 17.83	0.00
CARPENTER (Form Work Only).....	\$ 13.63 **	0.00
CARPENTER, Excludes Acoustical Ceiling Installation, Drywall Hanging, Form Work, and Metal Stud Installation.....	\$ 16.86	4.17
CAULKER.....	\$ 15.00 **	0.00
CEMENT MASON/CONCRETE FINISHER...	\$ 22.27	5.30
DRYWALL FINISHER/TAPER.....	\$ 13.81 **	0.00
DRYWALL HANGER AND METAL STUD INSTALLER.....	\$ 15.18 **	0.00
ELECTRICIAN (Low Voltage Wiring Only).....	\$ 20.39	3.04
IRONWORKER, REINFORCING.....	\$ 12.27 **	0.00

LABORER: Common or General.....	\$ 10.75 **	0.00
LABORER: Mason Tender - Brick...	\$ 11.88 **	0.00
LABORER: Mason Tender - Cement/Concrete.....	\$ 12.00 **	0.00
LABORER: Pipelayer.....	\$ 11.00 **	0.00
LABORER: Roof Tearoff.....	\$ 11.28 **	0.00
LABORER: Landscape and Irrigation.....	\$ 8.00 **	0.00
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 15.98 **	0.00
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$ 14.00 **	0.00
OPERATOR: Bulldozer.....	\$ 14.00 **	0.00
OPERATOR: Drill.....	\$ 14.50 **	0.00
OPERATOR: Forklift.....	\$ 12.50 **	0.00
OPERATOR: Grader/Blade.....	\$ 23.00	5.07
OPERATOR: Loader.....	\$ 12.79 **	0.00
OPERATOR: Mechanic.....	\$ 18.75	5.12
OPERATOR: Paver (Asphalt, Aggregate, and Concrete).....	\$ 16.03 **	0.00
OPERATOR: Roller.....	\$ 12.00 **	0.00
PAINTER (Brush, Roller and Spray), Excludes Drywall Finishing/Taping.....	\$ 13.07 **	0.00
ROOFER.....	\$ 12.00 **	0.00
TILE FINISHER.....	\$ 11.32 **	0.00
TILE SETTER.....	\$ 14.94 **	0.00
TRUCK DRIVER: Dump Truck.....	\$ 12.39 **	1.18
TRUCK DRIVER: Flatbed Truck.....	\$ 19.65	8.57
TRUCK DRIVER: Semi-Trailer Truck.....	\$ 12.50 **	0.00
TRUCK DRIVER: Water Truck.....	\$ 12.00 **	4.11

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

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** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$16.20) or 13658

(\$12.15). Please see the Note at the top of the wage determination for more information.

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>.

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) (ii)).

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

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which 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. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average

rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of 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. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

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

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write 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 the answer to the question in 1.) is yes, then an

interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write 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 by 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

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

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PART 1 - GENERAL

1.01 SUMMARY

- A. This section provides for furnishing all labor, materials, equipment, power, and incidentals for performing all operations necessary to dewater, depressurize, drain, and maintain excavations as described herein and as necessary to operate pumps, installation of pipeline and appurtenances. Included are installing, maintaining, operating and work removing dewatering systems, and all work necessary to control, handle, and dispose of groundwater and surface water during the construction of open cut trench and shaft excavations, directional drilling, pipelines and appurtenances, and protecting Work against rising waters and repair of any resulting damage at no additional cost to SAWS.
- B. Work includes reduction of hydrostatic pressure and control of groundwater and perched groundwater in open cut trench and shaft excavations to provide dry and stable subgrade for construction. The work also includes the design, procurement, and installation of facilities to satisfactorily treat water, if required, for discharge to drainage system.
- C. Protecting work against surface runoff and rising flood water.
- D. Conformance to SWPPP.

1.02 CONTRACTOR'S RESPONSIBILITY

- A. It is the sole responsibility of the Contractor to identify groundwater and surface water conditions and to provide any and all labor, material, equipment, techniques, and methods to lower, control and handle groundwater and surface water as necessary for the Contractor's construction methods and to monitor the effectiveness of this installed system and its effect on adjacent facilities.
- B. Operate, maintain, and modify the system(s) as required to conform to these Specifications. Upon completion of the construction, Contractor shall remove the system(s). The development, drilling and abandonment of all wells used in the dewatering system shall comply with Texas Commission on Environmental Quality regulations and Texas Water Well Drillers Association.
- C. Assume sole responsibility for dewatering systems and for all loss or damage resulting from partial or complete failure of protective measures and any settlement or resultant damage caused by the dewatering operations. Modify groundwater control systems or operations if they cause or threaten to cause damage to new construction, existing site improvements, adjacent property, or adjacent wells. Repair damage caused by the dewatering system or resulting from failure of the system to protect property asrequired.

- D. Provide an adequate number of piezometers installed at the proper locations and depths as required to provide meaningful observations of the conditions affecting the excavation adjacent structures, and wells.

1.03 DEFINITIONS

- A. Ground water control system: system used to dewater and depressurize water-bearing soil layers.
 - 1. Dewatering: lowering the water table and intercepting seepage that would otherwise emerge from slopes or bottoms of excavations, or into tunnels and shafts; and disposing of removed water. Intent of dewatering is to increase stability of tunnel excavations and excavated slopes; prevent dislocation of material from slopes or bottoms of excavations, reduce lateral loads on sheeting and bracing, improve excavating and hauling characteristics of excavated material, prevent failure or heaving of bottom of excavations, and to provide suitable conditions for placement of backfill materials and construction of structures and other installations.
 - 2. Depressurization: includes reduction in piezometric pressure within strata not controlled by dewatering alone, necessary to prevent failure or heaving of excavation bottom or instability of tunnel excavations.
- B. Excavation drainage: includes keeping excavations free of surface and seepage water.
- C. Surface drainage: includes use of temporary drainage ditches and dikes and installation of temporary culverts and sump pumps with discharge lines necessary to protect Work from any source of surface water.
- D. Monitoring facilities for groundwater control system: includes piezometers, monitoring wells and flow meters for observing and recording flow rates.

1.04 DESIGN CRITERIA

- A. The Contractor shall be responsible for dewatering design and selection of methods and equipment for the dewatering system. The design shall be performed and stamped by a professional engineer registered in the State of Texas and specialized in hydrogeology or geotechnical engineering. Design shall include the monitoring and recording system.
- B. Dewatering systems shall be designed to satisfy the following objectives:
 - 1. Effectively reduce hydrostatic pressures, lower groundwater levels, and intercept perched groundwater to provide a dry and stable subgrade for the execution of subsequent operations.

2. Not result in damage to existing adjacent properties, buildings, structures, utilities, and other work.
 3. Assure that after 12 hours of initial pumping, no soil particles will be present in the discharge water.
 4. Comply with requirements for sanitary sewer discharge as described in Paragraph 3.08 of this Section.
 5. Maintain stability of sides and bottom of excavations.
- C. Required methods may include sump pumping, single-stage or multiple-stage well point systems, eductor and ejector-type well systems, deep wells, and combinations thereof. Groundwater cutoffs are also acceptable provided groundwater inflows at hydrostatic pressures are controlled so that the Work can be performed in the dry and so that there is no seepage or loss of ground.
- D. Locate dewatering facilities within the proposed and temporary easements, JUAs, and only where they will not interfere with utilities, traffic, pedestrians, or construction work to be done by others.
- E. Contractor shall modify dewatering or groundwater control procedures that cause or threaten to cause damage to new or existing facilities, so as to prevent further damage. The Contractor shall be responsible for determining and making the modifications at no additional cost to SAWS.
- F. Dewatering facilities, monitoring wells, and piezometers shall be made accessible to the Engineer at any time for monitoring purposes.
- G. Additional monitoring wells and piezometers may be requested by the Engineer or SAWS to be installed by the Contractor, at no additional cost to SAWS. Monitoring wells and piezometers shall be accessible to SAWS at all times.
- H. Dewatering and monitoring wells shall be installed and abandoned per Texas Commission on Environmental Quality Rules and Regulations.
- I. Provide ditches, berms, pumps and other methods necessary to divert and drain surface water from excavation and other work areas.

1.05 QUALITY REQUIREMENTS

- A. Provide for the arrangement, locations and depths of the dewatering system to accomplish the Work and satisfy the requirements specified herein. Provide sumps, well points, and deep wells with suitable filters and well screens of adequate size and screen opening to prevent removal of fines from the soils. Make available equipment, machinery and piping, including standby power and pumps in good working condition and of adequate capacity to continue dewatering operations in an emergency.

- B. Provide dewatering and/or groundwater control as required and as specified until the pipe or structure under construction has been completed.
- C. Dispose of water in closed conduits, do not to damage public or private property or create a nuisance or health hazard. Contractor to shall not use existing sanitary sewer system for discharge of groundwater and/or surface water flow.

1.06 SUBMITTALS

- A. Prior to the installation of the dewatering system and any excavation where groundwater is anticipated to be encountered, submit a Groundwater and Surface Water Control Plan for review by SAWS and Engineer prior to start of any fieldwork. The Plan shall be signed by a Professional Engineer registered in the State of Texas. Submit a plan to include the following:
 - 1. Results of any subsurface investigation and description of the extent and characteristics of water bearing layers subject to groundwater control.
 - 2. Design data, and descriptions of proposed groundwater and surface water control facilities for each location where these facilities are required.
 - 3. The proposed type of dewatering or groundwater control system including a description of the methods, equipment, standby equipment and power supply, observation wells and/or piezometers, pollution control facilities, and discharge locations to be utilized.
 - 4. Arrangement, location and depth of the components of the proposed system. A complete description of the equipment to be used with associated installation, operation, and maintenance procedures.
 - 5. Location and size of wells, berms, dikes, sediment pits, and discharge lines, including their relation to existing drainage facilities.
 - 6. Excavation drainage methods including typical drainage layers, sump pump application and other means.
 - 7. Surface water control and drainage installations.
 - 8. Proposed methods and location for disposing of removed water.
 - 9. A schedule for the installation of the system.
 - 10. Working Drawings and supporting calculations demonstrating the adequacy of the proposed system and equipment prepared by a professional engineer registered in the State of Texas and specialized in hydrogeology or geotechnical engineering.
 - 11. Include QA/QC process that ensures the Contractor's management of groundwater and surface water control does not impede construction or existing infrastructure.

12. The submittal of dewatering and groundwater control systems shall be made at least 45 days from the Contractor's notice to proceed. The Contractor shall resubmit if the system is modified during installation or operation.
- B. Submit the following records upon completion of initial installation:
1. Installation and development reports for well points, eductors, and deep wells.
 2. Installation reports and baseline readings for piezometers and monitoring wells shall be provided monthly.
 3. Baseline analytical test data of water from monitoring wells.
 4. Initial flow rates.
- C. Submit the following records weekly during control of ground and surface water operations:
1. Records of flow rates and piezometric elevations obtained during monitoring of dewatering and depressurization. Refer to Paragraph 3.04, Requirements of Eductor, Well Points, or Deep Wells.
 2. Maintenance records for groundwater control installations, piezometers and monitoring wells.

1.07 SITE CONDITIONS

- A. The Contractor shall be responsible for the continuous control of water and safety of excavations at all times during the course of construction, including weekends and holidays and during periods of work stoppages, and shall provide adequate backup systems to accomplish control of water. The method of control, handling, and disposal of groundwater and surface water shall be by whatever means are necessary and in conformance with this section to obtain satisfactory working conditions and maintain the progress of the work. All applicable legislative statutes, judiciary decisions, and regulations shall be followed including those pertaining to the use of drilled wells for dewatering.
- B. All required drainage, pumping, and disposal shall be done without damage to adjacent property or structures, and without interference with the operations of other contractors, or the rights of public or private owners, or pedestrian and vehicular traffic. The Contractor shall modify the water control system at no cost to SAWS if, after installation and while in operation, it causes or threatens to cause damage to adjacent property or to existing buildings, structures, or utilities.
- C. Repair, subject to the Engineer's acceptance, any damage, disruption, or interference resulting directly or indirectly from dewatering operations at no additional cost to SAWS.
- D. Comply with requirements of agencies having jurisdiction.

- E. Comply with Texas Commission on Environmental Quality regulations and Texas Water Well Drillers Association for development, drilling, and abandonment of wells used in dewatering system.
- F. Obtain permit from TCEQ under the Texas Pollutant Discharge Elimination System (TPDES), for storm water discharge from construction sites.
- G. Obtain all necessary permits from agencies with jurisdiction over use of groundwater matters affecting well installation, water discharge, and use of existing storm drains and natural water sources. Since review and permitting process may be lengthy, take early action to obtain required approvals.
- H. All dewatering operations shall be set up and operated within the construction limits shown, or within public rights-of-way unless written approval is received by the Contractor from the private property owner.
- I. Dewatering systems shall not interfere with areas required for vehicular and pedestrian traffic.
- J. Select equipment and materials necessary to achieve desired results for dewatering. Selected equipment and materials are subject to review by SAWS and Engineer through submittals required in Paragraph 1.06, Submittals.
- K. Use experienced contractors, regularly engaged in groundwater control system design, installation, and operation, to furnish and install and operate educators, well points, or deep wells, when needed.
- L. Maintain equipment in good repair and operating condition. Ensure pumps are properly cleaned and maintained to ensure pump performance.
- M. Keep sufficient standby equipment and materials available to ensure continuous operation, as required. Pumps need to be properly cleaned and maintained to ensure pump performance.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Dewatering systems: The design of the dewatering systems, and the selection of equipment and materials for the dewatering systems shall be the Contractor's responsibility and conform to the following:
 - 1. Where vertical shoring systems are used, wells shall be used and located outside of the shoring system.
 - 2. Equipment and materials determined by the Engineer to be unsound, inadequate, or unsuitable for the intended purpose shall be removed from the site and replaced with other approved items.

3. Install observation wells and/or piezometers as required to demonstrate that dewatering system design requirements have been achieved.
- B. Pumps and dewatering wells shall be provided with totalizing flow meters to accurately determine flow rates and the quantity of water pumped. Flow meters shall be installed no closer than 4 feet from any bend in the discharge pipe.

PART 3 - EXECUTION

3.01 SURFACE DRAINAGE

- A. Surface drainage shall be intercepted and diverted away from the Work sites by the use of dikes, curbswalls, ditches, sumps (with pumps), or other means. Surface drainage systems shall be designed so that they do not cause erosion on or off the site. Surface runoff shall be controlled to prevent entry of water into excavations. Drainage systems shall be removed when no longer needed.
- B. Divert surface water and seepage water into sumps and pump it into drainage channels or storm drains, when approved by agencies having jurisdiction. Provide settling basins when required by agencies.
- C. Water collected from surface drainage system shall be managed in a manner that prevents releasing hazardous substances to surface or subsurface soil or groundwater, except as specifically authorized by any applicable discharge permit.

3.02 GROUNDWATER CONTROL IN SHAFT AND TRENCH EXCAVATIONS

- A. Perform necessary subsurface investigation to identify water bearing layers, piezometric pressures and soil parameters for design and installation of ground water control systems. Perform pump tests, if necessary to determine draw down characteristics. Present results in the Ground Water and Surface Water Control Plan submittal. Contractor shall expedite subsurface investigations in order to include information in the Ground Water and Surface Water Control Plan.
- B. Provide labor, material, equipment, techniques and methods to lower, control and handle ground water in a manner compatible with construction methods and site conditions. Monitor effectiveness of installed systems and their effect on adjacent property.
- C. Install, operate, and maintain ground water control systems in accordance with the Ground Water and Surface Water Control Plan. Notify SAWS and Engineer in writing of changes made to accommodate field conditions and changes to Work. Provided revised drawings and calculations with notification.
- D. Provide continuous system operation, including nights, weekends, and holidays, as required. Arrange appropriate backup if electrical power is primary energy source for dewatering system.

- E. Monitor operations to verify systems lower ground water piezometric levels at rate required to maintain dry excavation resulting in stable subgrade for subsequent construction operations.
- F. Continue dewater in all required areas, until the involved Work is completed, including the placing and compaction of backfill materials in dry conditions and in accordance with the Contract Documents.
- G. Depressurize zones where hydrostatic pressures in confined water bearing layers exist below excavations to eliminate risk of uplift or other instability of excavation or installed works. Define allowable piezometric elevations in the Ground Water and Surface Water Control Plan.
- H. Provide a uniform diameter for each pipe drain run constructed for dewatering. Remove the pipe drain when it has served its purpose. If removal of the pipe is impractical, provide grout connections at 50-foot intervals, and fill the pipe with cement-bentonite grout or cement and sand grout when the pipe has served its purpose.
- I. Removal of ground water control installations.
- J. Remove pumping system components and piping when ground water control is no longer required.
- K. Remove monitoring wells when directed by SAWS.
- L. Grout abandoned well and piezometer holes. Fill piping that is not removed with cement-bentonite grout or cement-sand grout.
- M. During backfilling, maintain water level a minimum of 5 feet below prevailing level of backfill. Do not allow the water level to cause uplift pressures in excess of 80 percent of downward pressure produced by weight of structure of backfill in place. Do not allow water levels to rise into cement-stabilized sand until at least 48 hours afterplacement.
- N. Compact backfill to not less than 98 percent of maximum dry density in accordance with SAWS Specifications.
- O. The Contractor shall monitor and record, on a daily basis, the volume of water pumped per calendar day from shaft and trench excavations, using flow measuring devices approved by the Engineer. In addition, the Contractor shall observe and record any occurrences of water in the tunnel. The record shall be provided to the Engineer on a daily basis.

3.03 DEWATERING TRENCH

- A. No pipeline shall be laid in a trench in the presence of water. All water shall be removed from the trench sufficiently ahead of the pipeline placing operation. The Contractor shall ensure dewatering of the trench to ensure a dry, firm bed on which to place the pipeline. As a minimum, water levels shall be maintained at least 2 feet below the pipe invert.

Trench shall continue to be dewatered until trench backfilling operations have been completed.

- B. Removal of water may be accomplished by pumping or pumping in connection with well point installation as the particular situation may warrant.
- C. If the soils encountered at the trench grade are suitable for the passage of water, without destroying the sides or utility foundation of the trench, sumps may be provided at intervals at the side of the main trench excavation. Pumps shall be used to lower the water level by taking their suction from said sumps.
- D. In cohesive soils where seepage is usually low, groundwater is generally managed by collection in trench bottom sumps for pumped disposal. Care should be taken to have a redundant pumping system that allows for overnight pumping. Water must not be allowed to pond in the trench bottoms.
- E. Recommend a pre-construction survey of nearby structures be performed prior to construction.

3.04 REQUIREMENTS FOR EDUCTOR, WELL POINTS, OR DEEP WELLS

- A. Install sufficient piezometers or monitoring wells to show that trench or shaft excavations in water bearing materials are pre-drained prior to excavation. Provide separate piezometers for monitoring of dewatering and for monitoring of depressurization. Install piezometers and monitoring wells for tunneling as appropriate for selected method of work.
- B. Install piezometers or monitoring wells at least one week in advance of the start of associated excavation.
- C. Dewatering may be omitted for portions of under drains or other excavations, where auger borings and piezometers or monitoring wells show that soil is pre-drained by existing systems and that ground water control plan criteria are satisfied.
- D. Replace installations that produce noticeable amounts of sediments after development.
- E. Provide additional ground water control installations, or change method of control if, ground water control plan does not provide satisfactory results based on the performance criteria defined by plan and by the Contract Documents. Submit revised plan according to Paragraph 1.06 B.

3.05 DISPOSAL OF WATER

- A. All water removed from the construction site(s) shall be discharged through pipes. The conveying of water in open ditches or trenches will not be allowed. Do not discharge pumped drainage water into the sanitary sewer system or inhibit pedestrian or vehicular traffic with the ground water control system.

- B. The Contractor shall secure all applicable permits for groundwater discharged to storm water system that drain directly to waterways.
- C. Appropriate extraction well design and construction, settling basins, filter fabric structures, or other means may be used to reduce the concentration of suspended solids to allowable limits, prior to discharge. Discharge from settling basins, if used by the Contractor, shall not cause siltation or flooding in any stream, storm sewer, or on adjacent properties. Settling basins, if used by the Contractor, shall be cleaned of solids as necessary to maintain their efficiency.
- D. Permission to use any storm sewers or drains for water disposal purpose shall be obtained from SAWS. All requirements and costs for such use shall be the responsibility of the Contractor. The Contractor shall not cause flooding by overloading or blocking the flow in the drainage facilities, and it shall leave the facilities unrestricted and as clean as originally found.
- E. Dewatering effluent shall be managed in a manner that prevents releasing hazardous substances to surface or subsurface soil or groundwater.
- F. Discharge of pumped surface water to the ground surface around the work sites is not permitted.

3.06 WELL ABANDONMENT

- A. Upon completion of the Contract, Contractor shall abandon all existing and new observation wells and piezometers in accordance with TCEQ rules and regulations. The well and piezometer vaults and well covers shall be removed completely and disposed of and the surface restored to preconstruction conditions.
- B. Surface restoration in paved areas shall match existing material types and thicknesses as necessary to restore the surface to its original condition. In other areas, restore ground surface by backfilling with topsoil, sod, or other materials as required to match original conditions.

3.07 MAINTENANCE AND OBSERVATION

- A. Maintenance and observation of piezometers or observation well is the responsibility of the Contractor and shall consist of keeping them in good condition and observing and recording the elevation of the water level daily, as long as the dewatering system is in operation, and weekly thereafter until the work is completed or the piezometers or wells are removed.
- B. Submit a record of the water level to SAWS and the Engineer weekly, as well as with monthly pay applications.

- C. Replace damaged and destroyed piezometers or observation wells, unless otherwise accepted by SAWS and the Engineer, with new piezometers or wells within 48 hours, at no additional cost to SAWS.
- D. Cut off piezometers or observation wells in excavation areas, where exposed, as excavation proceeds, and continue to maintain and make observations in other wells as specified.
- E. Remove backfill or grout piezometers or observation wells inside or outside the excavation area, following backfill of trenching or tunnel grouting as approved by SAWS and the Engineer.

3.08 REPAIR OF DAMAGE

- A. Contractor to assume full responsibility for all loss and damage due to flooding, rising water, or seepage resulting from dewatering operations in any part of the work. Contractor to repair any damage to partially completed work from these or other causes, and performance of any other work necessitated by lack of adequate dewatering or drainage facilities.

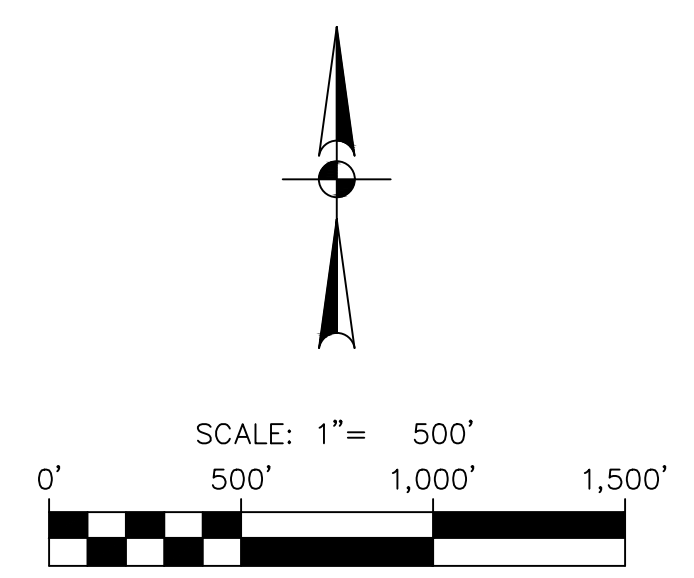
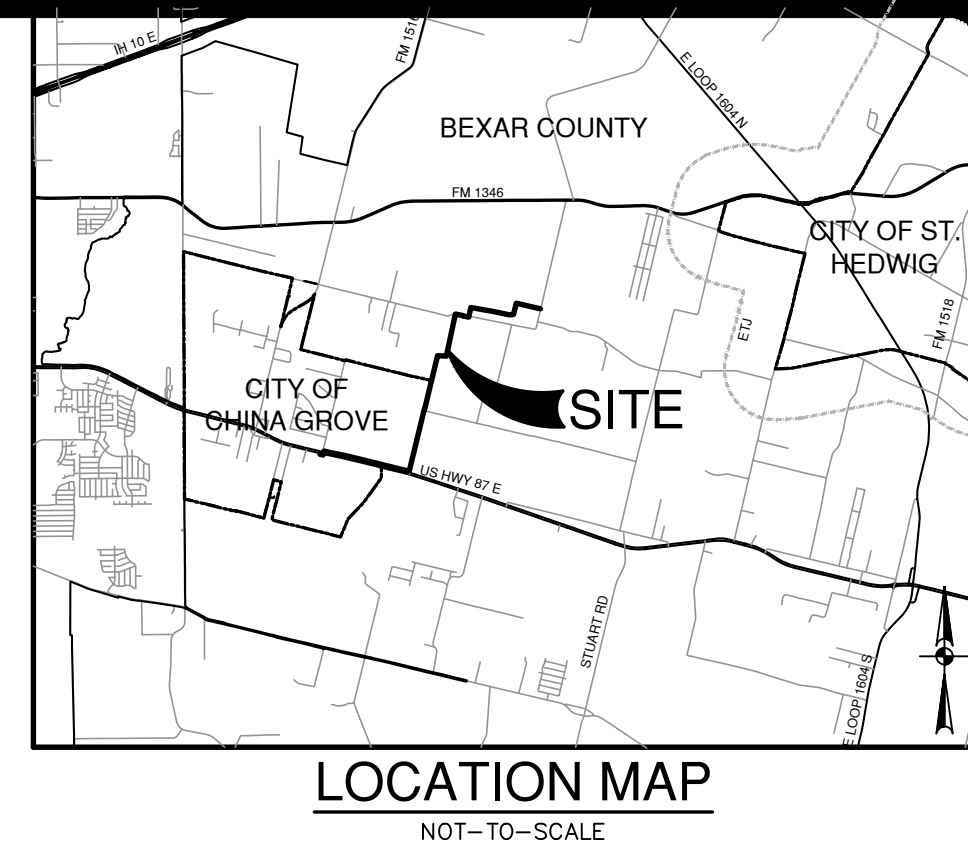
PART 4 – PAYMENT

4.01 MEASUREMENT FOR PAYMENT

- A. This item is considered subsidiary to the installation of the FRP sewer main and no separate payment will be made to the Contractor for the work.

END OF SECTION

QUANTITY TABLE			
ITEM	DESCRIPTION	UNIT	QTY
361	REPAIR OF CONCRETE PAVEMENT (FULL DEPTH) (TXDOT SPEC)	SY	76
401	FLOWABLE BACKFILL (TXDOT)	CY	56
502	BARRICADES, SIGNS AND TRAFFIC HANDLING (TXDOT SPEC)	LS	1
503.5	GRAVEL DRIVEWAY	SY	2387
507	FENCE GATE 16" TYPE 1	EA	9
508	REMOVE AND REPLACE EXISTING FENCE	LF	590
520	REVEGETATION OF DISTURBED AREA (+/- 68,220 SY)	LS	1
530	BARRICADES, SIGNS AND TRAFFIC HANDLING (COSA SPEC)	LS	1
540	SWPPP	LS	1
550	TRENCH EXCAVATION PROTECTION	LF	15031
818	12-INCH PVC C-900 (DR 18) PIPE	LF	15
818	16-INCH PVC C-900 (DR 18) PIPE	LF	172
818	24-INCH PVC C-900 (DR 18) PIPE	LF	1492
828	12" GATE VALVE, M.J. W/ 6" VALVE BOX, COMPLETE	EA	3
828	16" GATE VALVE, M.J. W/ 6" VALVE BOX, COMPLETE	EA	2
828	24" BUTTERFLY VALVE, FLG. W/ 6" VALVE BOX, COMPLETE	EA	25
834	STANDARD FIRE HYDRANT ASSEMBLY	EA	10
836	DUCTILE IRON FITTINGS	TON	8.83
840	WATER TIE-IN TO 16" EXISTING MAIN	EA	1
840	WATER TIE-IN TO 12" EXISTING MAIN	EA	2
840	WATER TIE-IN TO 8" EXISTING MAIN	EA	2
841	HYDROSTATIC TESTING	EA	6
844	2" TEMPORARY BLOW-OFF ASSEMBLY	EA	6
844	4" PERMANENT BLOW-OFF ASSEMBLY	EA	1
846	2" COMBINATION A.R.V. ASSEMBLY	EA	6
856.1	48" JACK AND BORE TUNNELING	LF	435
856.2	48" STEEL CASING	LF	435
856.3	24-INCH PVC C-900 (DR 18) CARRIER PIPE	LF	435
858	CONCRETE ENCASMENT	CY	231
3000	REMOVE ASBESTOS CEMENT PIPE	LF	213
3100	12" TEMPORARY WATER LINE, INCLUDING FITTINGS, TIE-INS, AND ALL APPURTENANCES	LF	197
6001	PORTABLE CHANGEABLE MESSAGE SIGN (TXDOT SPEC)	EA	1
100	MOBILIZATION	LS	1
101	PREPARATION OF ROW	LS	1



- KEY NOTES:**
- (A) VANESELTINE, LEE, 1.321AC (VOL. 8342 PG. 0571)
 - (B) BANKS JANICE O, 1.01AC (DEED# 20210162113)
 - (C) AREVALO RAMIRO ALEJANDRO PACHECO, 1.01AC (DEED# 20210013866)
 - (D) ARREDONDO ARTURO R & CHERI D, 1.21AC (VOL. 14712 PG. 2221)
 - (E) LOPEZ BRUNO & ARIANNA, 1.22AC (DEED# 20210105376)
 - (F) LOPEZ MARIVEL, 1.15AC (DEED# 20180130866)
 - (G) BALL, KENNETH O & JENNIFER, 0.98AC (VOL. 4055 PG. 1761)
 - (H) PALMER, EDNA M, 0.98AC (VOL. 6393 PG. 0218)
 - (I) BURFORD ANGEL B & DAWN, 0.98AC (VOL. 12925 PG. 1542)
 - (J) GRANGER CYNTHIA M, 0.98AC (DEED# 20210168695)
 - (K) PEREZ JOSHUA & DOLORES, 0.98AC (DEED# 20190097363)
 - (L) LUCIO BRYAN & LAUREN E, 0.98AC (DEED# 20220230146)
 - (M) ALLAN, DENNIS RAY, 0.98AC (VOL. 10816 PG. 0590)
 - (N) ALLAN, JOHNNIE, 0.98AC (VOL. 8725 PG. 1584)
 - (O) RUEWELER DIANA J & RICHARD K, 0.98AC (DEED# 20200119186)
 - (P) TETER, JOHN R & JONI L, 0.98AC (VOL. 3976 PG. 1532)

Control Point Table

Point #	Elevation	Northing	Easting	Description
1000	635.49	13690378.61	2179261.24	SIRCTV PANEL-122
1002	640.89	13691029.64	2179693.51	SIRCTV PANEL-121
1004	638.49	13690603.13	2179474.39	SIRCTV PANEL-124
1010	603.46	13690125.63	2181748.62	SMAG PANEL-125
1014	613.03	13689647.80	2183669.94	SMAG PANEL-126
1016	624.55	13689433.62	2184477.00	SMAG PANEL-120
1022	632.71	13692154.36	2184781.89	SMAG PANEL-119
1024	646.85	13694553.93	2185169.16	S60D PANEL-205
1026	611.03	13697846.37	2186016.40	SMAG PANEL-117
1028	588.01	13697824.88	2186969.94	SIRCTV PANEL-116
1032	575.78	13697136.33	2190419.66	SIRCTV PANEL-128
1034	582.93	13697365.76	2191284.45	SIRCTV PANEL-113

CPS UTILITY NOTE
 CONTRACTOR TO MAINTAIN A MINIMUM 50FOOT CLEARANCE FROM CPS POLES FOR ANY OPEN EXCAVATION. IF MINIMUM CLEARANCE CANNOT BE OBTAINED, CONTRACTOR TO COORDINATE AND SCHEDULE WITH CPS TO BRACE UTILITY POLE.

WATER: SAWS PRESSURE ZONE 828
 LUENSMANN OFF-SITE WATER MAIN EXTENSION PHASE 1

Developer's Name: STARLIGHT HOMES FOR TEXAS, LLC			
Address: 17319 SAN PEDRO AVE, STE 140			
City:	SAN ANTONIO	State:	TEXAS
Zip:	78232		
Phone#:	(210) 899-5124	FAX#:	N/A
SAWS Block Map# 216570, 216572, 216574, 216576, 216578, 216580, 216582, 216584, 216586, 216588, 216590, 216592, 216594, 216596, 216598, 216600, 216602, 216604, 216606, 216608, 216610, 216612, 216614, 216616, 216618, 216620, 216622, 216624, 216626, 216628, 216630, 216632, 216634, 216636, 216638, 216640, 216642, 216644, 216646, 216648, 216650, 216652, 216654, 216656, 216658, 216660, 216662, 216664, 216666, 216668, 216670, 216672, 216674, 216676, 216678, 216680, 216682, 216684, 216686, 216688, 216690, 216692, 216694, 216696, 216698, 216700, 216702, 216704, 216706, 216708, 216710, 216712, 216714, 216716, 216718, 216720, 216722, 216724, 216726, 216728, 216730, 216732, 216734, 216736, 216738, 216740, 216742, 216744, 216746, 216748, 216750, 216752, 216754, 216756, 216758, 216760, 216762, 216764, 216766, 216768, 216770, 216772, 216774, 216776, 216778, 216780, 216782, 216784, 216786, 216788, 216790, 216792, 216794, 216796, 216798, 216800, 216802, 216804, 216806, 216808, 216810, 216812, 216814, 216816, 216818, 216820, 216822, 216824, 216826, 216828, 216830, 216832, 216834, 216836, 216838, 216840, 216842, 216844, 216846, 216848, 216850, 216852, 216854, 216856, 216858, 216860, 216862, 216864, 216866, 216868, 216870, 216872, 216874, 216876, 216878, 216880, 216882, 216884, 216886, 216888, 216890, 216892, 216894, 216896, 216898, 216900, 216902, 216904, 216906, 216908, 216910, 216912, 216914, 216916, 216918, 216920, 216922, 216924, 216926, 216928, 216930, 216932, 216934, 216936, 216938, 216940, 216942, 216944, 216946, 216948, 216950, 216952, 216954, 216956, 216958, 216960, 216962, 216964, 216966, 216968, 216970, 216972, 216974, 216976, 216978, 216980, 216982, 216984, 216986, 216988, 216990, 216992, 216994, 216996, 216998, 217000			
Total Linear Footage of Pipe 5" LF-12" PVC, 162 LF-18" PVC, 15,378 LF-24" PVC	Total Acreage 45.81		
Number of Lots	N/A	TOTAL EDU'S	N/A
SAWS JOB NO.	23-1043		

DATE: 11/07/23
 REVISION: 1
 ADDENDUM: 1

Jason T. Diamond
 11-7-23

PAPE-DAWSON ENGINEERS
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
 TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008880

LUENSMANN OFF-SITE WATER MAIN EXTENSION (PHASE 1)
 BEXAR COUNTY, TEXAS
 SHEET INDEX

PLAT NO.:
 JOB NO.: 12473-09
 DATE: MARCH 2023
 DESIGNER: CD
 CHECKED: MP DRAWN: CD
 SHEET: C2.00

Date: Nov 10, 2023, 3:17pm User: J. Robert Jones
 File: P:\12473\03\Design\Chal\Sheet\1247309.dwg

RESTRAINED JOINT NOTE

ALL 24" WATER MAIN PIPE RESTRAINED JOINT MATERIAL AND THE HARDWARE ASSOCIATED WITH THESE MATERIALS ARE CONSIDERED SUBSIDIARY TO THE BID ITEM "24" WATER MAIN (C900, DR 18, CLASS 235), RESTRAINED AND UNRESTRAINED, OPEN CUT".

FIRE HYDRANT LEAD FREE NOTE

SAWS REQUIRES GCPS AND COUNTER PERMITS TO USE LEAD FREE (<0.25% LEAD) FIRE HYDRANTS.

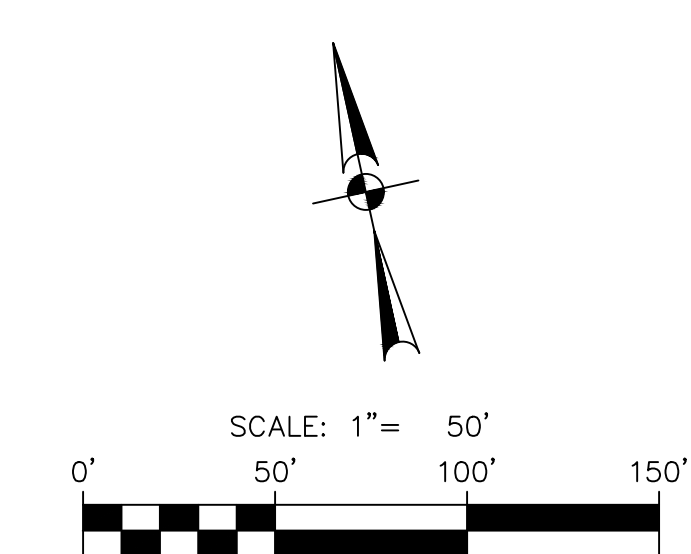
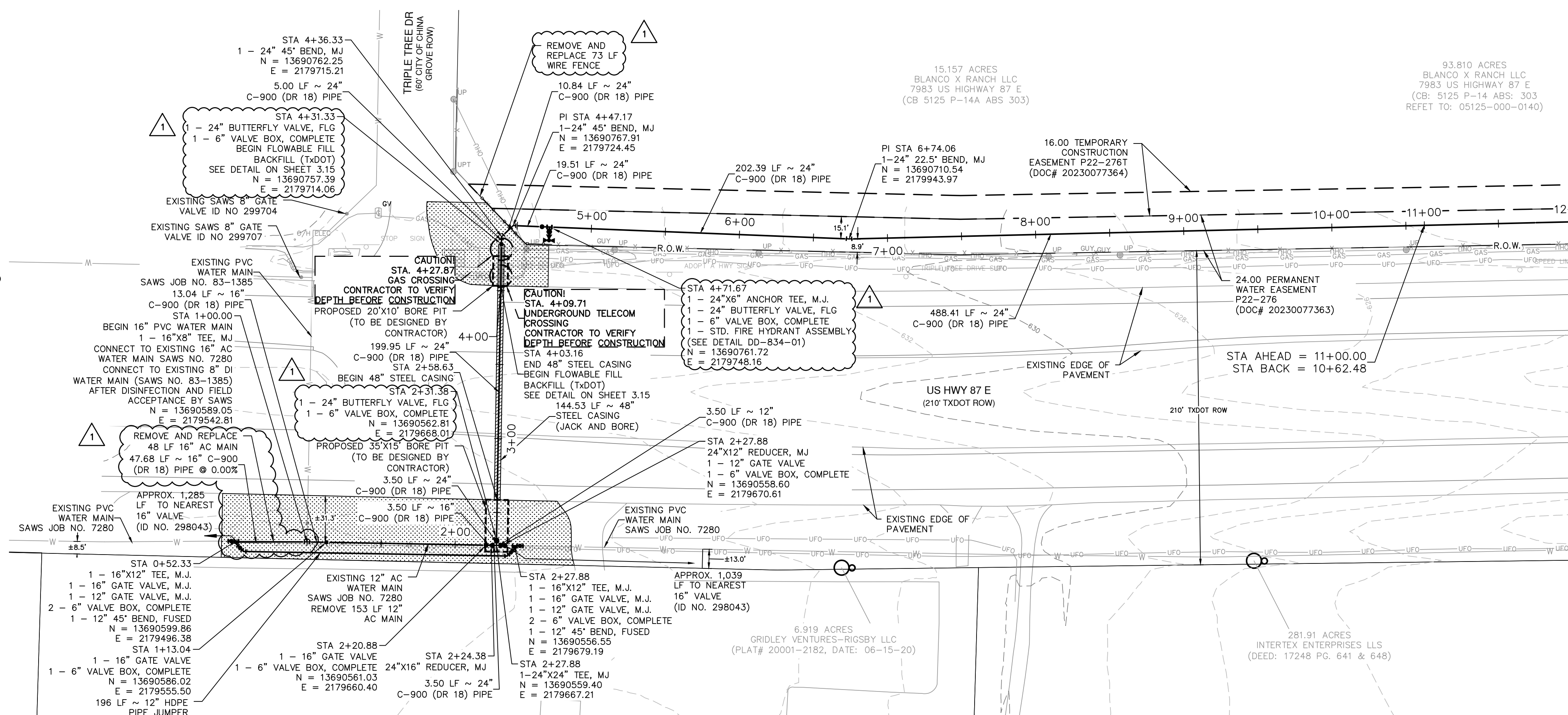
ALL PROPOSED 24" WATER MAIN SHALL BE
24" C-900 (DR 18) PVC PIPE

BUTTERFLY VALVE NOTE

ALL 24" BUTTERFLY VALVES SHALL BE CLASS 250 RATED.

CONTRACTOR NOTE

- PRIVATE DRIVEWAY ACCESS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- LIVESTOCK MAY BE PRESENT DURING CONSTRUCTION. CONTRACTOR TO KEEP GATES CLOSED AT ALL TIMES. CONTRACTOR SHALL BE RESPONSIBLE IF LIVESTOCK ARE INJURED OR RELEASED.



LEGEND

- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPERTY LINE
- TEMPORARY CONSTRUCTION ESMT
- PERMANENT WATER ESMT
- STEEL CASING
- CONCRETE ENCASUREMENT
- CITY LIMITS
- TxDOT REVEGETATION AREA

QUANTITY TABLE

ITEM	DESCRIPTION	UNIT	QTY
401	FLOWABLE BACKFILL (TxDOT)	CY	56
508	REMOVE AND REPLACE EXISTING FENCE	LF	73
590	TRENCH EXCAVATION PROTECTION	LF	917
818	12-INCH PVC C-900 (DR 18) PIPE	LF	4
818	16-INCH PVC C-900 (DR 18) PIPE	LF	172
818	24-INCH PVC C-900 (DR 18) PIPE	LF	789
828	12" GATE VALVE, MJ W/ 6" VALVE BOX, COMPLETE	EA	1
828	16" GATE VALVE, MJ W/ 6" VALVE BOX, COMPLETE	EA	2
828	24" BUTTERFLY VALVE, FLG W/ 6" VALVE BOX, COMPLETE	EA	2
834	STANDARD FIRE HYDRANT ASSEMBLY	EA	1
836	DUCTILE IRON FITTINGS	TON	1.47
840	WATER TIE-IN TO 16" EXISTING MAIN	EA	1
840	WATER TIE-IN TO 12" EXISTING MAIN	EA	1
840	WATER TIE-IN TO 8" EXISTING MAIN	EA	1
856.1	48" JACK AND BORE TUNNELING	LF	145
856.2	48" STEEL CASING	LF	145
856.3	24-INCH PVC C-900 (DR 18) CARRIER PIPE	LF	145
3000	REMOVE ASBESTOS CEMENT PIPE	LF	213
3000	12" TEMPORARY WATER LINE, INCLUDING FITTINGS, TIE-INS, AND ALL APPURTENANCES	LF	197

ASBESTOS CEMENT NOTE

ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE 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".

CPS UTILITY NOTE

CONTRACTOR TO MAINTAIN A MINIMUM 5 FOOT CLEARANCE FROM UTILITY POLES AND 30 FEET FROM TRANSMISSION TOWERS FOR ANY OPEN EXCAVATION. IF MINIMUM CLEARANCE CANNOT BE OBTAINED, CONTRACTOR TO COORDINATE AND SCHEDULE WITH CPS TO BRACE UTILITY POLE.

CAUTION UNDERGROUND UTILITIES

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINES; LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. THE CONTRACTOR MUST CONTACT 1-800-DIG-TESS AND CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION

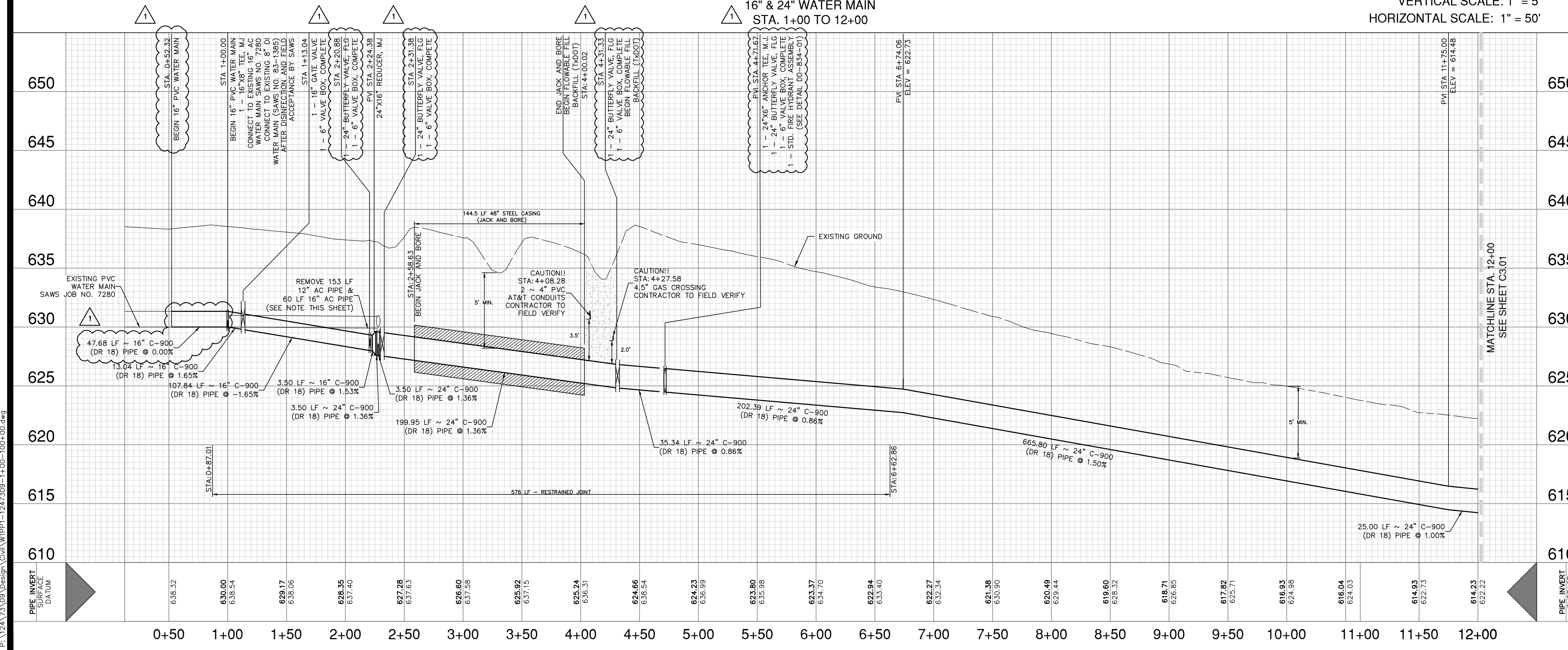
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY 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.

WATER: SAWS PRESSURE ZONE 828

LUENSMANN OFF-SITE WATER MAIN EXTENSION PHASE 1

Developer's Name: STARLIGHT HOMES FOR TEXAS, LLC
 Address: 17319 SAN PEDRO AVE, STE 140
 City: SAN ANTONIO State: TEXAS Zip: 78232
 Phone: (210) 899-5124 FAX: N/A
 210584,212564,214564,214566,216566,216568,226572
 SAWS Block Map#: 216570,216572,218572,220572,220574,224572 Total Acreage: 48.81
 228972,230972,230974,232974,232976,232978,232980,232982,232984,232986,232988,232990,232992,232994,232996,232998,233000
 Total Linear Footage of Pipe 5 LF=12" PVC, 162 LF=16" PVC, 15,378 LF=24" PVC Plat No./N/A
 Number of Lots: N/A TOTAL EDS: N/A SAWS JOB NO.: 23-1043

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



DATE: 11/07/23
 REVISION: ADDENDUM 1
 NO. 1

PAPE-PAWSON ENGINEERS
 SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
 TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008880

LUENSMANN OFF-SITE WATER MAIN EXTENSION (PHASE 1)
 BEXAR COUNTY, TEXAS
 WATER MAIN PLAN AND PROFILE
 STA 1+00 TO 12+00

PLAT NO. 12473-09
 JOB NO. 12473-09
 DATE MARCH 2023
 DESIGNER CD
 CHECKED MP DRAWN CD
 SHEET C3.00

Date: Nov 10, 2023, 4:01pm User: J. Pape-PAWSON File: P:\12473\12473_09_Design\Civil\WTPP1-1247309-1+00-100+00.dwg

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FIRE HYDRANT LEAD FREE NOTE

SAWS REQUIRES GCPS AND COUNTER PERMITS TO USE LEAD FREE (<.025% LEAD) FIRE HYDRANTS.

ALL PROPOSED 24" WATER MAIN SHALL BE 24" C-900 (DR 18) PVC PIPE

RESTRAINED JOINT NOTE

ALL 24" WATER MAIN PIPE RESTRAINED JOINT MATERIAL AND THE HARDWARE ASSOCIATED WITH THESE MATERIALS ARE CONSIDERED SUBSIDIARY TO THE BID ITEM "24" WATER MAIN (C900, DR 18, CLASS 235), RESTRAINED AND UNRESTRAINED, OPEN CUT".

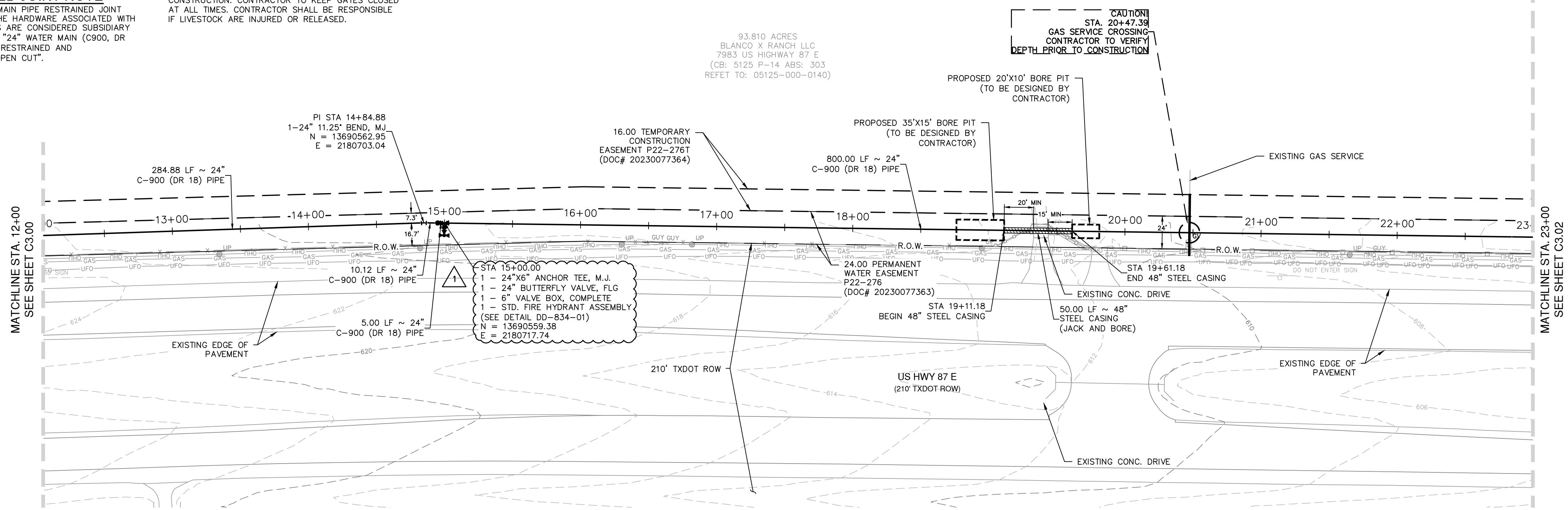
BUTTERFLY VALVE NOTE

ALL 24" BUTTERFLY VALVES SHALL BE CLASS 250 RATED.

CONTRACTOR NOTE

1. PRIVATE DRIVEWAY ACCESS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
2. LIVESTOCK MAY BE PRESENT DURING CONSTRUCTION. CONTRACTOR TO KEEP GATES CLOSED AT ALL TIMES. CONTRACTOR SHALL BE RESPONSIBLE IF LIVESTOCK ARE INJURED OR RELEASED.

93.810 ACRES
BLANCO X RANCH LLC
7983 US HIGHWAY 87 E
(CB: 5125 P-14 ABS: 303
REFET TO: 05125-000-0140)



24" WATER MAIN
STA. 12+00 TO 23+00

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'

LEGEND

- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPERTY LINE
- TEMPORARY CONSTRUCTION ESMT
- PERMANENT WATER ESMT
- STEEL CASING
- CONCRETE ENCASUREMENT
- CITY LIMITS

QUANTITY TABLE

ITEM	DESCRIPTION	UNIT	QTY
550	TRENCH EXCAVATION PROTECTION	LF	1050
818	24-INCH PVC C-900 (DR 18) PIPE	LF	1050
828	24" BUTTERFLY VALVE, FLG W/ 6" VALVE BOX, COMPLETE	EA	1
834	STANDARD FIRE HYDRANT ASSEMBLY	EA	1
836	DUCTILE IRON FITTINGS	TON	0.17
856.1	48" JACK AND BORE TUNNELING	LF	50
856.2	48" STEEL CASING	LF	50
856.3	24-INCH PVC C-900 (DR 18) CARRIER PIPE	LF	50

CPS UTILITY NOTE

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CAUTION UNDERGROUND UTILITIES

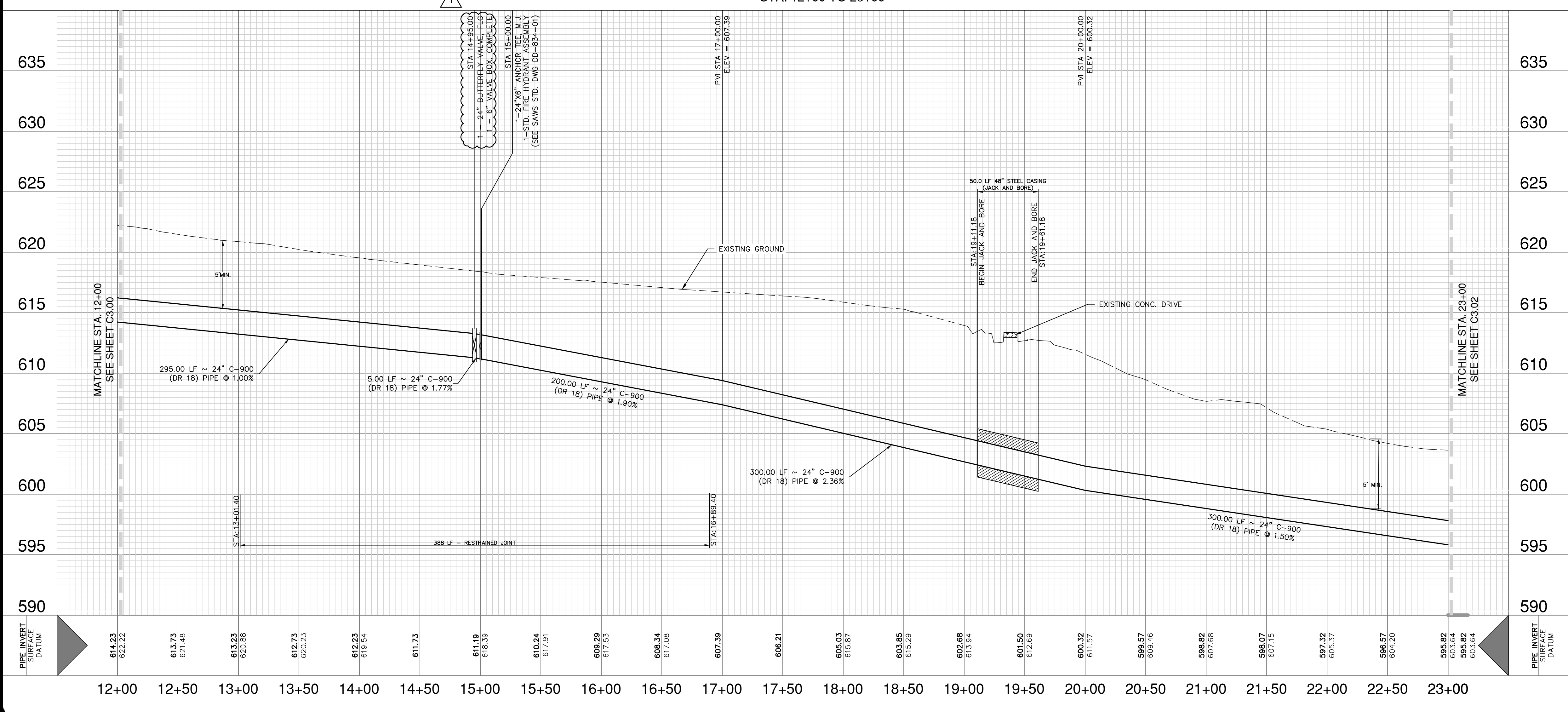
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TRENCH EXCAVATION SAFETY PROTECTION

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**WATER: SAWS PRESSURE ZONE 828
LUENSMANN OFF-SITE WATER MAIN EXTENSION PHASE 1**

Developer's Name: STARLIGHT HOMES FOR TEXAS, LLC
Address: 17319 SAN PEDRO AVE, SITE 140
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone# (210) 899-5124 FAX# N/A
210564,212564,214564,214566,214568,216566,216568,226572
SAWS Block Map# 216570,216572,218572,220572,222572,224572 Total Acreage 48.81
Total Linear Footage of Pipe 5 LF=12" PVC, 162 LF=18" PVC, 15,378 LF=24" PVC Plat No./N/A
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-1043



Date: Nov 10, 2023, 4:02pm User: ID: Robert Jones
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DATE	11/07/23
NO.	1
REVISION	ADDENDUM 1



PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10088800

LUENSMANN OFF-SITE WATER MAIN EXTENSION (PHASE 1)
BEXAR COUNTY, TEXAS
WATER MAIN PLAN AND PROFILE
STA 12+00 TO 23+00

PLAT NO.	
JOB NO.	12473-09
DATE	MARCH 2023
DESIGNER	CD
CHECKED	MP DRAWN CD
SHEET	C3.01

FIRE HYDRANT LEAD FREE NOTE

SAWS REQUIRES GCPS AND COUNTER PERMITS TO USE LEAD FREE (<0.25% LEAD) FIRE HYDRANTS.

ALL PROPOSED 24" WATER MAIN SHALL BE 24" C-900 (DR 18) PVC PIPE

RESTRAINED JOINT NOTE

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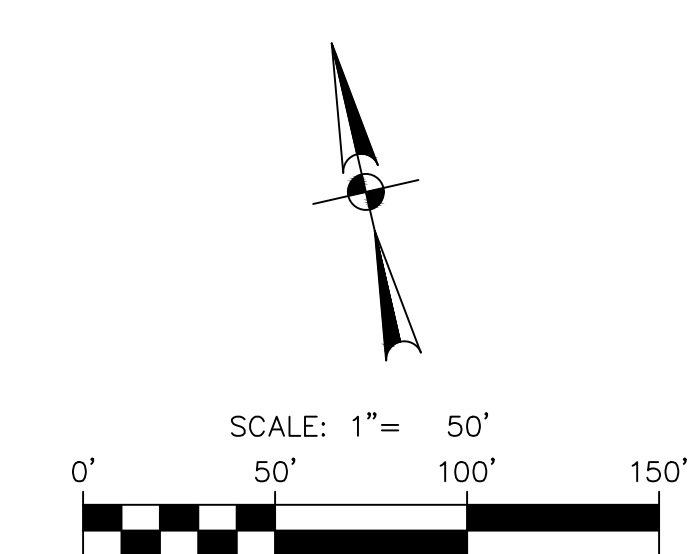
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ALL 24" BUTTERFLY VALVES SHALL BE CLASS 250 RATED.

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93.810 ACRES
BLANCO X RANCH LLC
7983 US HIGHWAY 87 E
(CB: 5125 P-14 ABS: 303
REFET TO: 05125-000-0140)



LEGEND

- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPERTY LINE
- TEMPORARY CONSTRUCTION ESMT
- PERMANENT WATER ESMT
- STEEL CASING
- CONCRETE ENCASUREMENT
- CITY LIMITS

QUANTITY TABLE

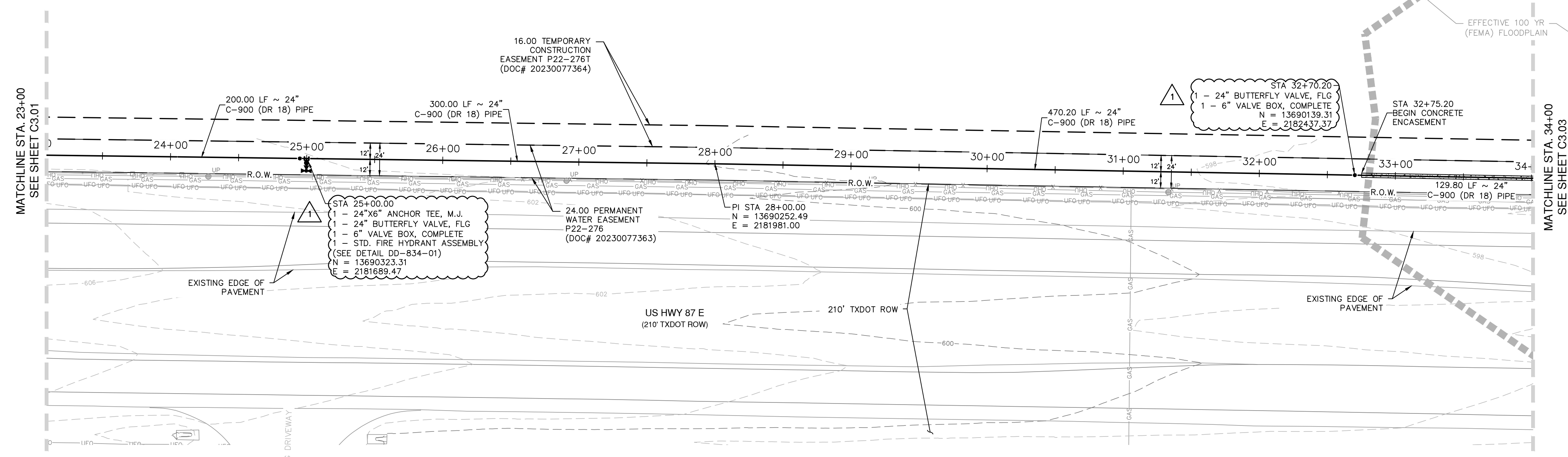
ITEM	DESCRIPTION	UNIT	QTY
550	TRENCH EXCAVATION PROTECTION	LF	1100
818	24" INCH PVC C-900 (DR 18) PIPE	LF	1100
828	24" BUTTERFLY VALVE, FLG 12" x 6"	EA	2
834	STANDARD FIRE HYDRANT ASSEMBLY	EA	2
858	CONCRETE ENCASUREMENT	CY	28

DATE: 11/07/23
NO. REVISION: 1
ADDENDUM: 1

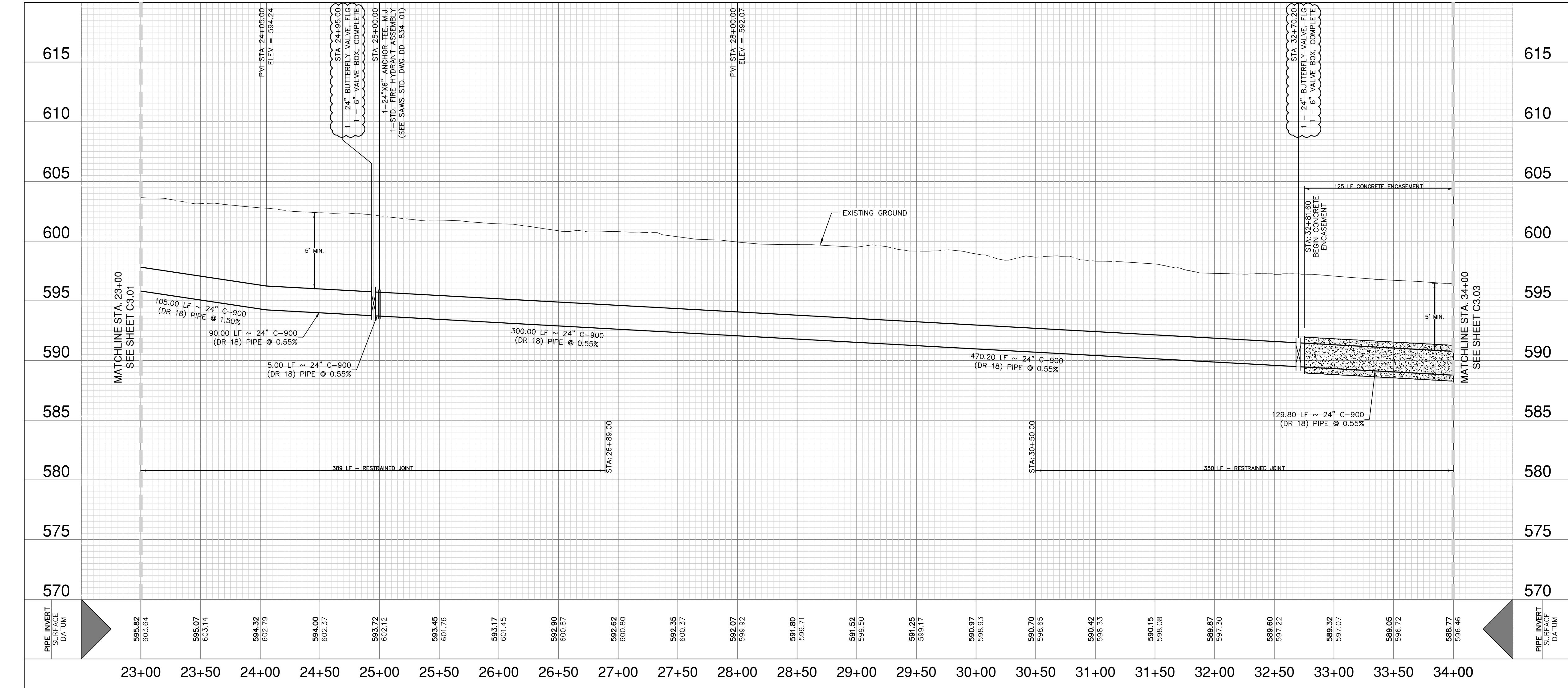
PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008880

LUENSMANN OFF-SITE WATER MAIN EXTENSION (PHASE 1)
BEXAR COUNTY, TEXAS
WATER MAIN PLAN AND PROFILE
STA 23+00 TO 34+00

PLAT NO. _____
JOB NO. 12473-09
DATE MARCH 2023
DESIGNER CD
CHECKED MP DRAWN CD
SHEET C3.02



24" WATER MAIN STA. 23+00 TO 34+00
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



CPS UTILITY NOTE

CONTRACTOR TO MAINTAIN A MINIMUM 5 FOOT CLEARANCE FROM UTILITY POLES AND 30 FEET FROM TRANSMISSION TOWERS FOR ANY OPEN EXCAVATION. IF MINIMUM CLEARANCE CANNOT BE OBTAINED, CONTRACTOR TO COORDINATE AND SCHEDULE WITH CPS TO BRACE UTILITY POLE.

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THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. THE CONTRACTOR MUST CONTACT 1-800-DIG-TESS AND CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

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 ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY 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.

WATER: SAWS PRESSURE ZONE 828

LUENSMANN OFF-SITE WATER MAIN EXTENSION PHASE 1

Developer's Name: STARLIGHT HOMES FOR TEXAS, LLC
Address: 17319 SAN PEDRO AVE, STE 140
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone# (210) 899-5124 FAX# N/A
210564,212564,214564,214566,215566,216566,216568,226572
SAWS Block Map# 216570,216572,218572,220572,222572,224572 Total Acreage 48.81
228572,230572,232572,234572,236572,238572,240572,242572,244572,246572,248572
Total Linear Footage of Pipe 5 LF=12" PVC, 162 LF=18" PVC, 15,378 LF=24" PVC Plat No./N/A
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-1043

Date: Nov 10, 2023, 4:03pm User: J. Robert Jones File: P:\12473\23\02_Design\Civil\WTP1-1247309-1a.dwg

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FIRE HYDRANT LEAD FREE NOTE
SAWS REQUIRES GCPS AND COUNTER PERMITS TO USE LEAD FREE (<0.25% LEAD) FIRE HYDRANTS.

BUTTERFLY VALVE NOTE

ALL PROPOSED 24" WATER MAIN SHALL BE
24" C-900 (DR 18) PVC PIPE

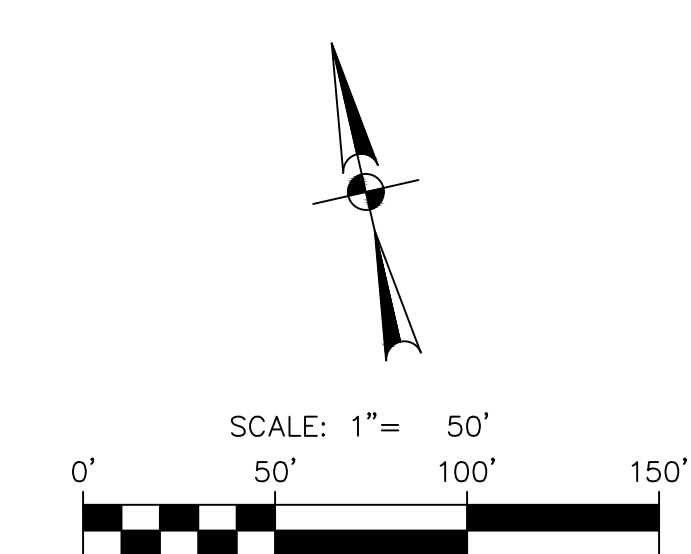
ALL 24" BUTTERFLY VALVES SHALL BE CLASS 250 RATED.

CONTRACTOR NOTE

- PRIVATE DRIVEWAY ACCESS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- LIVESTOCK MAY BE PRESENT DURING CONSTRUCTION. CONTRACTOR TO KEEP GATES CLOSED AT ALL TIMES. CONTRACTOR SHALL BE RESPONSIBLE IF LIVESTOCK ARE INJURED OR RELEASED.

RESTRAINED JOINT NOTE

ALL 24" WATER MAIN PIPE RESTRAINED JOINT MATERIAL AND THE HARDWARE ASSOCIATED WITH THESE MATERIALS ARE CONSIDERED SUBSIDIARY TO THE BID ITEM "24" WATER MAIN (C900, DR 18, CLASS 235), RESTRAINED AND UNRESTRAINED, OPEN CUT".

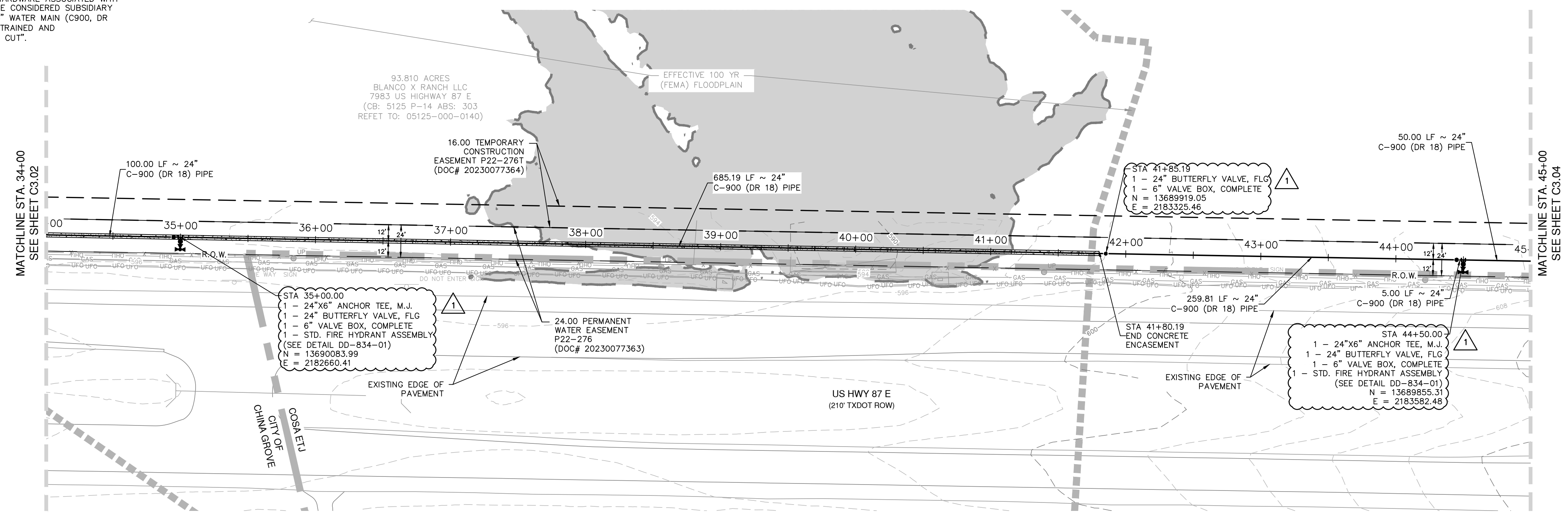


LEGEND

- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPERTY LINE
- TEMPORARY CONSTRUCTION ESMT
- PERMANENT WATER ESMT
- STEEL CASING
- CONCRETE ENCASUREMENT
- CITY LIMITS

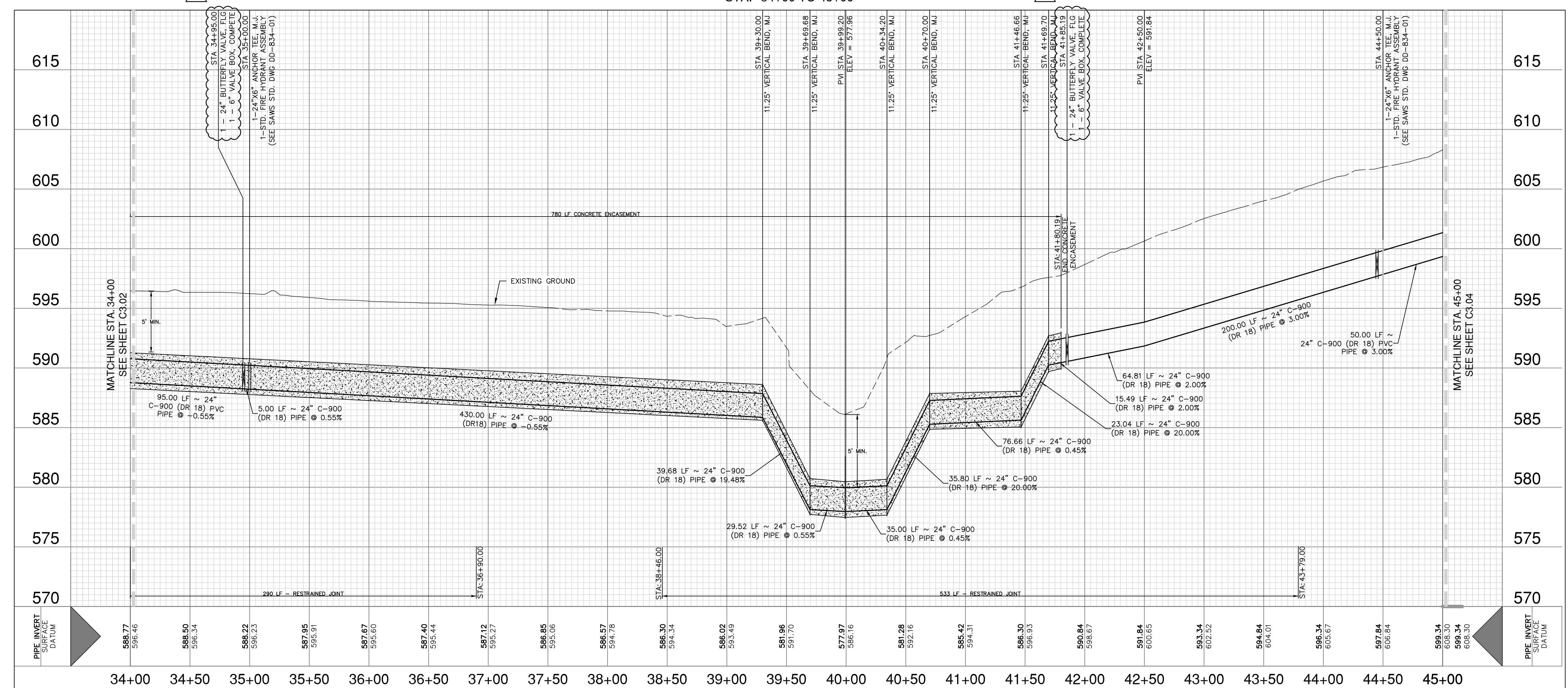
QUANTITY TABLE

ITEM	DESCRIPTION	UNIT	QTY
550	TRENCH EXCAVATION PROTECTION	LF	1100
878	24-INCH PVC C-900 (DR 18) PIPE	LF	1100
828	24" BUTTERFLY VALVE, FLG W/ 6" VALVE BOX, COMPLETE	EA	3
834	STANDARD FIRE HYDRANT ASSEMBLY	EA	3
836	DUCTILE IRON FITTINGS	TON	1.02
858	CONCRETE ENCASUREMENT	CY	170



**24" WATER MAIN
STA. 34+00 TO 45+00**

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



CPS UTILITY NOTE

CONTRACTOR TO MAINTAIN A MINIMUM 5 FOOT CLEARANCE FROM UTILITY POLES AND 30 FEET FROM TRANSMISSION TOWERS FOR ANY OPEN EXCAVATION. IF MINIMUM CLEARANCE CANNOT BE OBTAINED, CONTRACTOR TO COORDINATE AND SCHEDULE WITH CPS TO BRACE UTILITY POLE.

CAUTION UNDERGROUND UTILITIES

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. THE CONTRACTOR MUST CONTACT 1-800-DIG-TESS AND CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION

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**WATER: SAWS PRESSURE ZONE 828
LUENSMANN OFF-SITE WATER MAIN EXTENSION PHASE 1**

Developer's Name: STARLIGHT HOMES FOR TEXAS, LLC
Address: 17319 SAN PEDRO AVE, STE 140
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone# (210) 899-5124 FAX# N/A
210564,212564,214564,214566,214568,216566,216568,226572
SAWS Block Map# 216570,216572,218572,220572,220574,224572 Total Acreage 48.81
Total Linear Footage of Pipe 5 LF=12" PVC, 162 LF=18" PVC, 15,378 LF=24" PVC Plat No./N/A
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-1043

DATE 11/07/23
NO. REVISION 1
ADDENDUM 1
JASON T. DIAMOND
11-7-23

PAPE-PAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008860

LUENSMANN OFF-SITE WATER MAIN EXTENSION (PHASE 1)
BEXAR COUNTY, TEXAS
WATER MAIN PLAN AND PROFILE
STA 34+00 TO 45+00

PLAT NO.
JOB NO. 12473-09
DATE MARCH 2023
DESIGNER CD
CHECKED MP DRAWN CD
SHEET C3.03

Date: Nov 10, 2023 4:03pm User: J. Robert Jones
File: P:\12473\12473_03_Visual\Civil\WTP1-1247309-1a.dwg
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FIRE HYDRANT LEAD FREE NOTE

SAWS REQUIRES GCPS AND COUNTER PERMITS TO USE LEAD FREE (<0.25% LEAD) FIRE HYDRANTS.

ALL PROPOSED 24" WATER MAIN SHALL BE 24" C-900 (DR 18) PVC PIPE

RESTRAINED JOINT NOTE

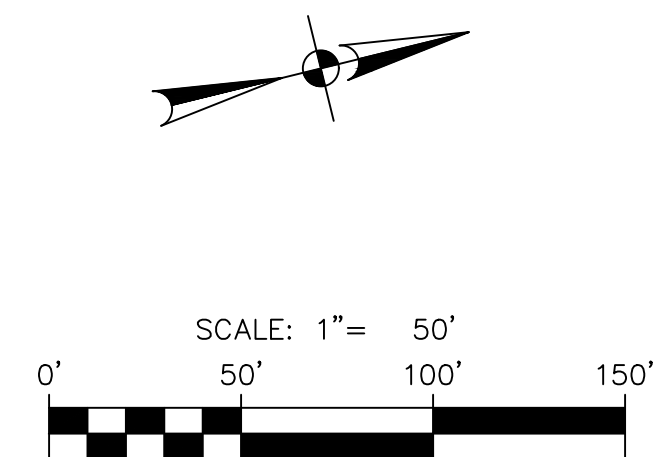
ALL 24" WATER MAIN PIPE RESTRAINED JOINT MATERIAL AND THE HARDWARE ASSOCIATED WITH THESE MATERIALS ARE CONSIDERED SUBSIDIARY TO THE BID ITEM "24" WATER MAIN (C900, DR 18, CLASS 235), RESTRAINED AND UNRESTRAINED, OPEN CUT".

BUTTERFLY VALVE NOTE

ALL 24" BUTTERFLY VALVES SHALL BE CLASS 250 RATED.

CONTRACTOR NOTE

1. PRIVATE DRIVEWAY ACCESS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
2. LIVESTOCK MAY BE PRESENT DURING CONSTRUCTION. CONTRACTOR TO KEEP GATES CLOSED AT ALL TIMES. CONTRACTOR SHALL BE RESPONSIBLE IF LIVESTOCK ARE INJURED OR RELEASED.



LEGEND

- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPERTY LINE
- TEMPORARY CONSTRUCTION ESMT
- PERMANENT WATER ESMT
- STEEL CASING
- CONCRETE ENCASEMENT
- CITY LIMITS

QUANTITY TABLE

ITEM	DESCRIPTION	UNIT	QTY
550	TRENCH EXCAVATION PROTECTION	LF	1100
818	24" INCH PVC C-900 (DR 18) PIPE	LF	1100
828	24" BUTTERFLY VALVE, FLG W/ 6" VALVE BOX, COMPLETE	EA	1
834	STANDARD FIRE HYDRANT ASSEMBLY	EA	1
846	2" COMBINATION A.R.V. ASSEMBLY	EA	1

DATE: 11/07/23
 NO. REVISION: 1
 ADDENDUM: 1

Jason T. Diamond
11-7-23

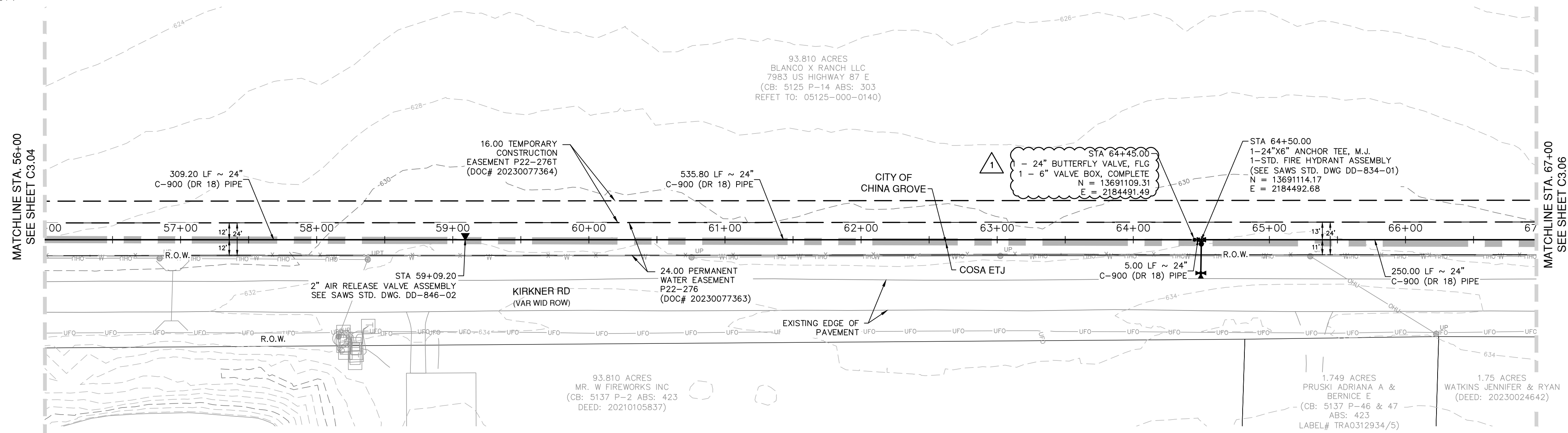
PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
 2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
 TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008860

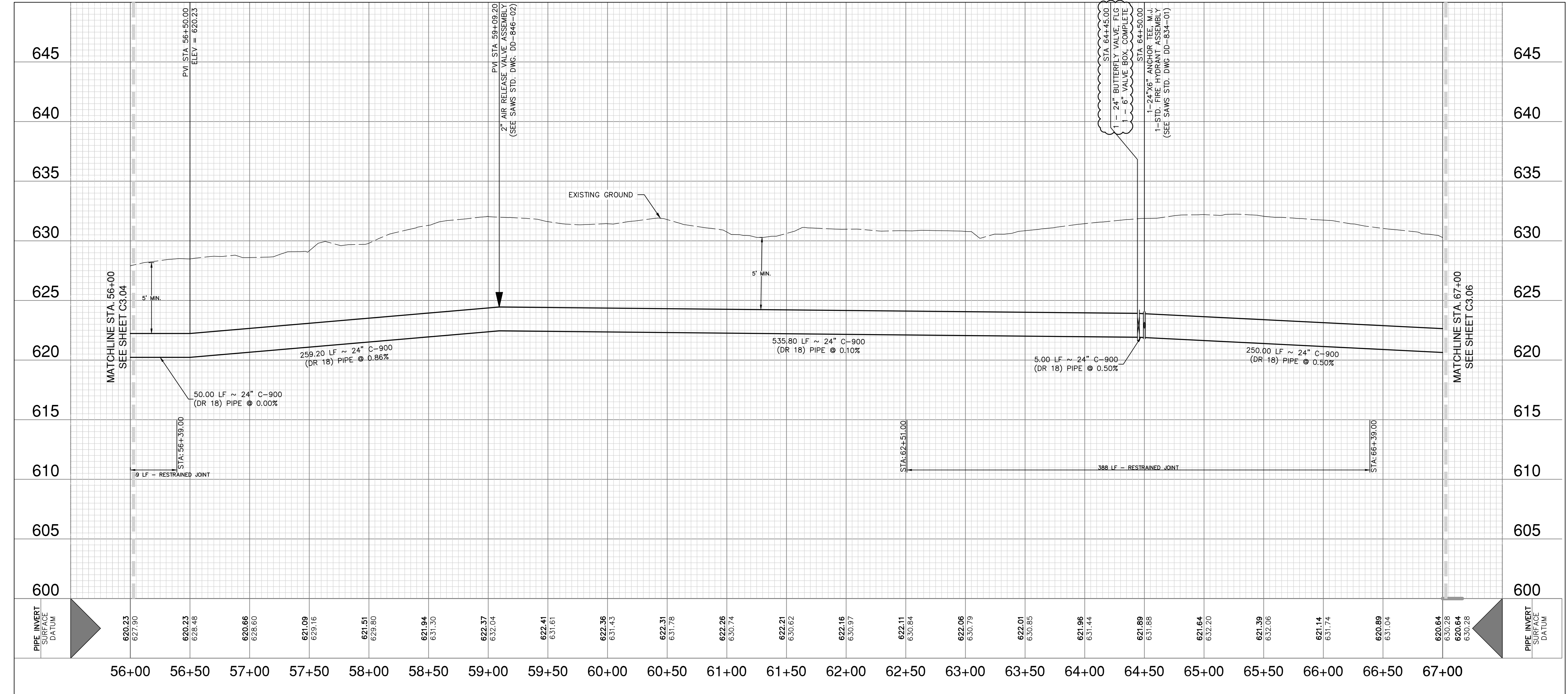
LUENSMANN OFF-SITE WATER MAIN EXTENSION (PHASE 1)

BEXAR COUNTY, TEXAS
 WATER MAIN PLAN AND PROFILE
 STA 56+00 TO 67+00

PLAT NO. _____
 JOB NO. 12473-09
 DATE MARCH 2023
 DESIGNER CD
 CHECKED MP DRAWN CD
 SHEET C3.05



24" WATER MAIN
 STA. 56+00 TO 67+00
 VERTICAL SCALE: 1" = 5'
 HORIZONTAL SCALE: 1" = 50'



CPS UTILITY NOTE

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WATER: SAWS PRESSURE ZONE 828

LUENSMANN OFF-SITE WATER MAIN EXTENSION PHASE 1

Developer's Name: STARLIGHT HOMES FOR TEXAS, LLC
Address: 17319 SAN PEDRO AVE, STE 140
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone: (210) 899-5124 FAX: N/A
SAWS Block Map: 210564, 212564, 214564, 216564, 218564, 220564, 222564, 224564, 226564, 228564, 230564, 232564, 234564, 236564, 238564, 240564, 242564, 244564, 246564, 248564, 250564, 252564, 254564, 256564, 258564, 260564, 262564, 264564, 266564, 268564, 270564, 272564, 274564, 276564, 278564, 280564, 282564, 284564, 286564, 288564, 290564, 292564, 294564, 296564, 298564, 300564, 302564, 304564, 306564, 308564, 310564, 312564, 314564, 316564, 318564, 320564, 322564, 324564, 326564, 328564, 330564, 332564, 334564, 336564, 338564, 340564, 342564, 344564, 346564, 348564, 350564, 352564, 354564, 356564, 358564, 360564, 362564, 364564, 366564, 368564, 370564, 372564, 374564, 376564, 378564, 380564, 382564, 384564, 386564, 388564, 390564, 392564, 394564, 396564, 398564, 400564, 402564, 404564, 406564, 408564, 410564, 412564, 414564, 416564, 418564, 420564, 422564, 424564, 426564, 428564, 430564, 432564, 434564, 436564, 438564, 440564, 442564, 444564, 446564, 448564, 450564, 452564, 454564, 456564, 458564, 460564, 462564, 464564, 466564, 468564, 470564, 472564, 474564, 476564, 478564, 480564, 482564, 484564, 486564, 488564, 490564, 492564, 494564, 496564, 498564, 500564, 502564, 504564, 506564, 508564, 510564, 512564, 514564, 516564, 518564, 520564, 522564, 524564, 526564, 528564, 530564, 532564, 534564, 536564, 538564, 540564, 542564, 544564, 546564, 548564, 550564, 552564, 554564, 556564, 558564, 560564, 562564, 564564, 566564, 568564, 570564, 572564, 574564, 576564, 578564, 580564, 582564, 584564, 586564, 588564, 590564, 592564, 594564, 596564, 598564, 600564, 602564, 604564, 606564, 608564, 610564, 612564, 614564, 616564, 618564, 620564, 622564, 624564, 626564, 628564, 630564, 632564, 634564, 636564, 638564, 640564, 642564, 644564, 646564, 648564, 650564, 652564, 654564, 656564, 658564, 660564, 662564, 664564, 666564, 668564, 670564, 672564, 674564, 676564, 678564, 680564, 682564, 684564, 686564, 688564, 690564, 692564, 694564, 696564, 698564, 700564, 702564, 704564, 706564, 708564, 710564, 712564, 714564, 716564, 718564, 720564, 722564, 724564, 726564, 728564, 730564, 732564, 734564, 736564, 738564, 740564, 742564, 744564, 746564, 748564, 750564, 752564, 754564, 756564, 758564, 760564, 762564, 764564, 766564, 768564, 770564, 772564, 774564, 776564, 778564, 780564, 782564, 784564, 786564, 788564, 790564, 792564, 794564, 796564, 798564, 800564, 802564, 804564, 806564, 808564, 810564, 812564, 814564, 816564, 818564, 820564, 822564, 824564, 826564, 828564, 830564, 832564, 834564, 836564, 838564, 840564, 842564, 844564, 846564, 848564, 850564, 852564, 854564, 856564, 858564, 860564, 862564, 864564, 866564, 868564, 870564, 872564, 874564, 876564, 878564, 880564, 882564, 884564, 886564, 888564, 890564, 892564, 894564, 896564, 898564, 900564, 902564, 904564, 906564, 908564, 910564, 912564, 914564, 916564, 918564, 920564, 922564, 924564, 926564, 928564, 930564, 932564, 934564, 936564, 938564, 940564, 942564, 944564, 946564, 948564, 950564, 952564, 954564, 956564, 958564, 960564, 962564, 964564, 966564, 968564, 970564, 972564, 974564, 976564, 978564, 980564, 982564, 984564, 986564, 988564, 990564, 992564, 994564, 996564, 998564, 1000564
Number of Lots: N/A TOTAL EDU'S: N/A SAWS JOB NO. 23-1043

Date: Nov 10, 2023, 4:05pm User: J. Robert Jones
 File: P:\124\23\02_Visual\Civil\WTP1-1247309-1-00-100-00.dwg

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FIRE HYDRANT LEAD FREE NOTE

SAWS REQUIRES GCPS AND COUNTER PERMITS TO USE LEAD FREE (<0.25% LEAD) FIRE HYDRANTS.

ALL PROPOSED 24" WATER MAIN SHALL BE 24" C-900 (DR 18) PVC PIPE

RESTRAINED JOINT NOTE

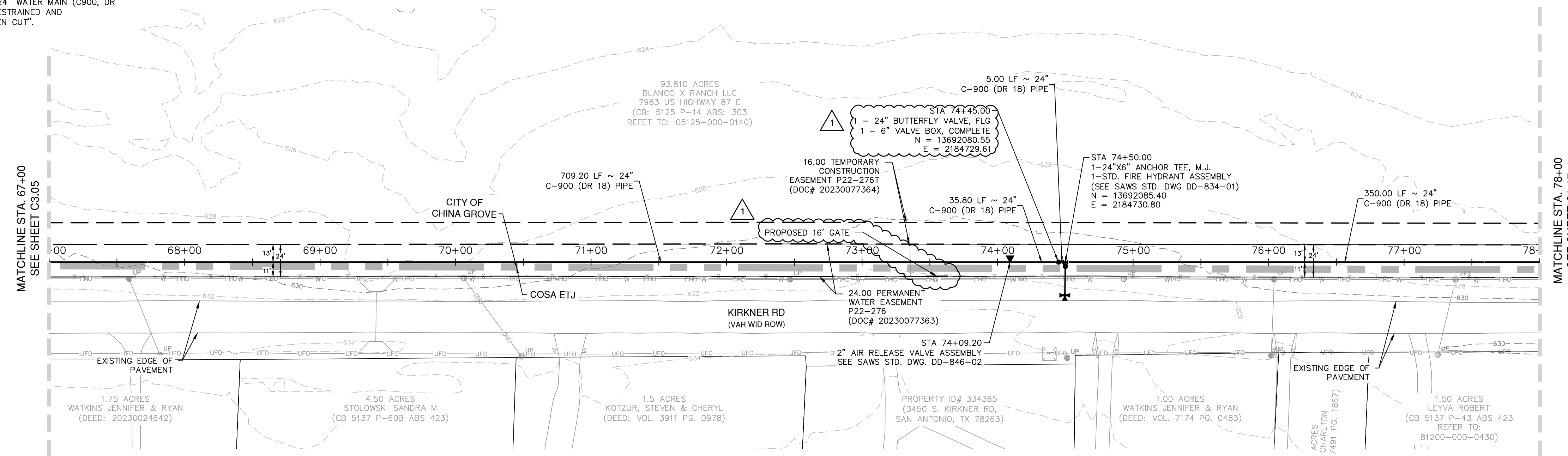
ALL 24" WATER MAIN PIPE RESTRAINED JOINT MATERIAL AND THE HARDWARE ASSOCIATED WITH THESE MATERIALS ARE CONSIDERED SUBSIDIARY TO THE BID ITEM "24" WATER MAIN (C900, DR 18, CLASS 235), RESTRAINED AND UNRESTRAINED, OPEN CUT".

BUTTERFLY VALVE NOTE

ALL 24" BUTTERFLY VALVES SHALL BE CLASS 250 RATED.

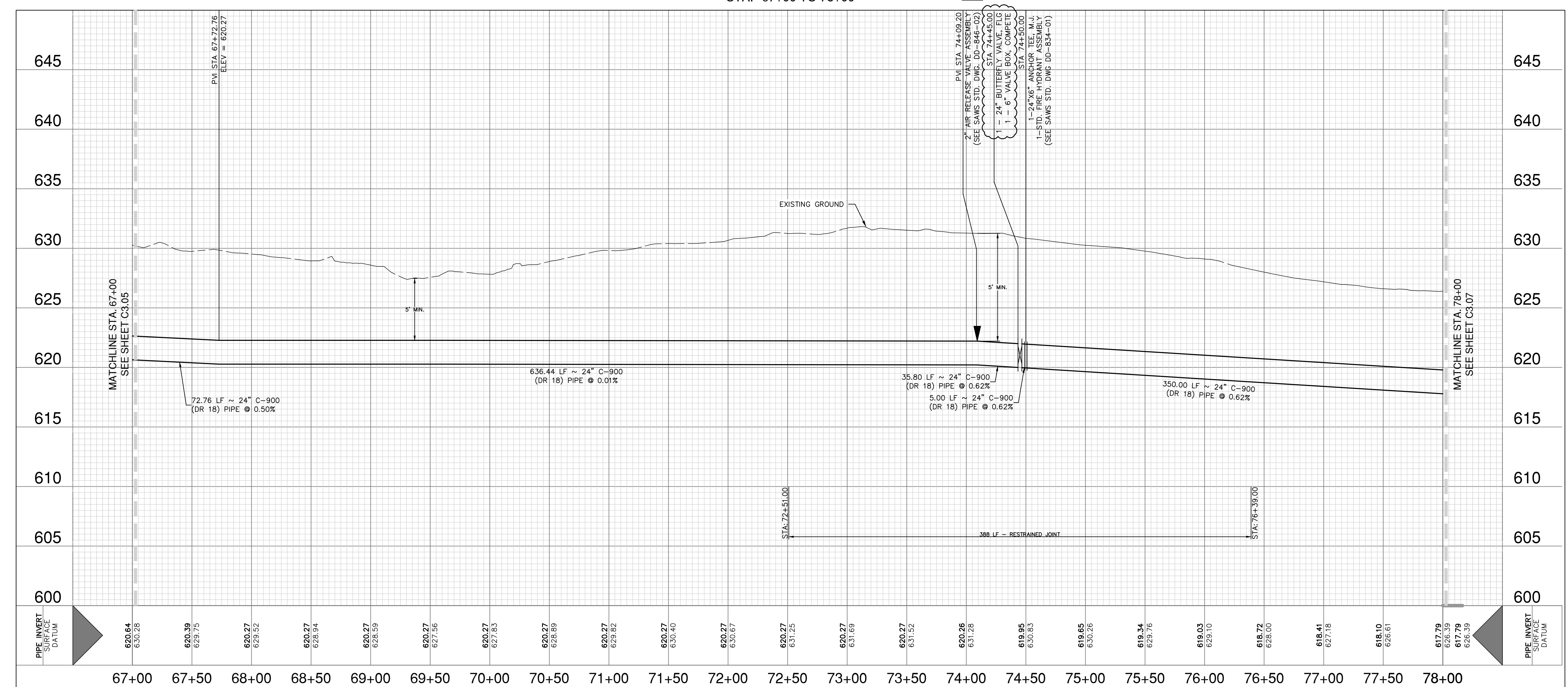
CONTRACTOR NOTE

1. PRIVATE DRIVEWAY ACCESS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
2. LIVESTOCK MAY BE PRESENT DURING CONSTRUCTION. CONTRACTOR TO KEEP GATES CLOSED AT ALL TIMES. CONTRACTOR SHALL BE RESPONSIBLE IF LIVESTOCK ARE INJURED OR RELEASED.



24" WATER MAIN
STA. 67+00 TO 78+00

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



LEGEND

- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPERTY LINE
- TEMPORARY CONSTRUCTION ESMT
- PERMANENT WATER ESMT
- STEEL CASING
- CONCRETE ENCASEMENT
- CITY LIMITS

QUANTITY TABLE

ITEM	DESCRIPTION	UNIT	QTY
507	FENCE GATE 16' TYPE 1	EA	1
550	TRENCH EXCAVATION PROTECTION	LF	1100
818	24" INCH PVC C-900 (DR 18) PIPE	LF	1100
828	24" BUTTERFLY VALVE, FLG W/ 6" VALVE BOX, COMPLETE	EA	1
834	STANDARD FIRE HYDRANT ASSEMBLY	EA	1
846	2" COMBINATION A.R.V. ASSEMBLY	EA	1

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WATER: SAWS PRESSURE ZONE 828

LUENSMANN OFF-SITE WATER MAIN EXTENSION PHASE 1

Developer's Name: STARLIGHT HOMES FOR TEXAS, LLC
Address: 17319 SAN PEDRO AVE, STE 140
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone# (210) 899-5124 FAX# N/A
210564,212564,214564,214566,216566,216568,226572
SAWS Block Map# 216570,216572,218572,220572,222572,224572 Total Acreage 48.81
228572,230572,232572,234572,236572,238572,240572,242572,244572,246572,248572,250572,252572,254572,256572,258572,260572,262572,264572,266572,268572,270572,272572,274572,276572,278572,280572,282572,284572,286572,288572,290572,292572,294572,296572,298572,300572
Total Linear Footage of Pipe 5 LF=12' PVC, 162 LF=18' PVC, 15,378 LF=24" PVC Plat No./N/A
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-1043

DATE 11/07/23
NO. REVISION 1
ADDENDUM 1

Jason T. Diamond
11-7-23

PAPE-PAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008860

LUENSMANN OFF-SITE WATER MAIN EXTENSION (PHASE 1)
BEXAR COUNTY, TEXAS
WATER MAIN PLAN AND PROFILE
STA 67+00 TO 78+00

PLAT NO.
JOB NO. 12473-09
DATE MARCH 2023
DESIGNER CD
CHECKED MP DRAWN CD
SHEET C3.06

Date: Nov 10, 2023, 4:06pm User: J. Diamond
File: P:\12473\12473_02_Visual\Civil\WTPP1-1247309-1-00-100-00.dwg
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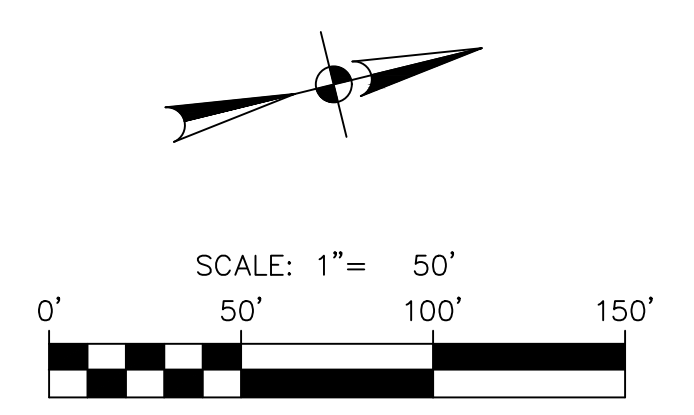
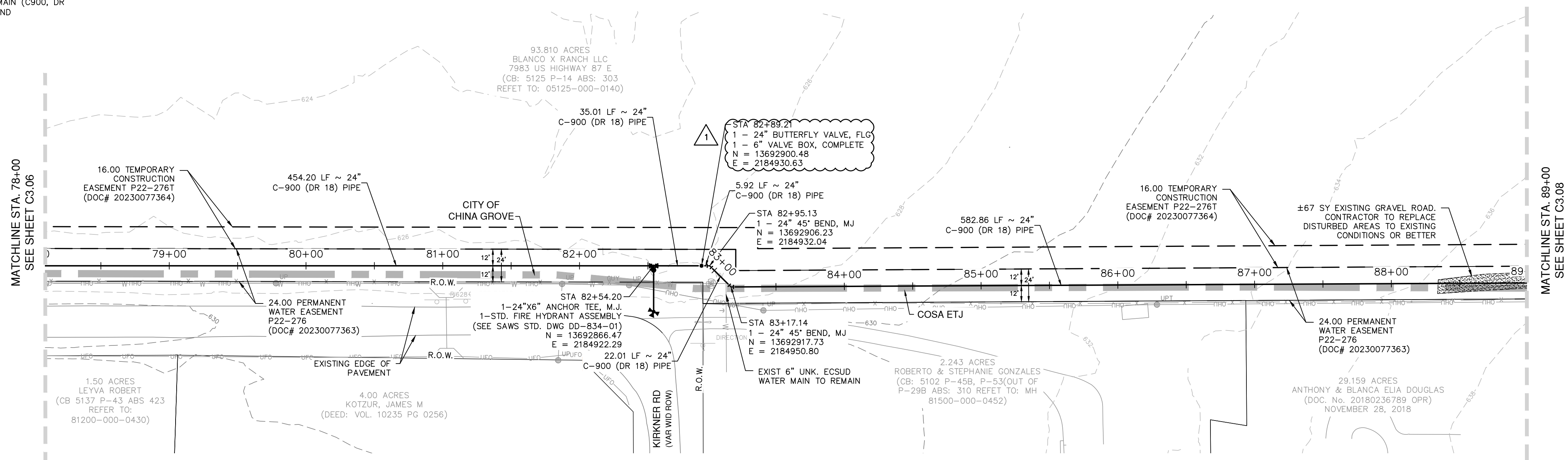
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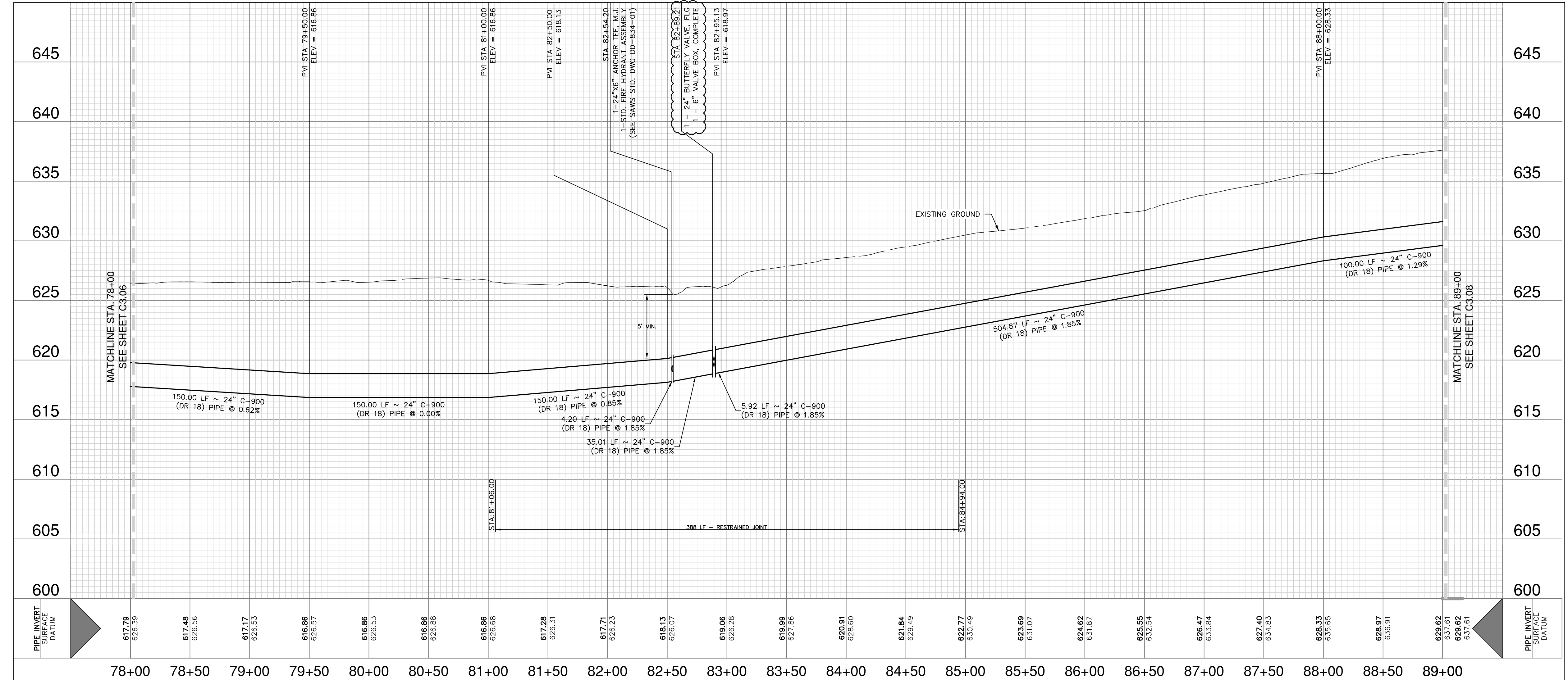
LEGEND

PROPOSED WATER MAIN	---
EXISTING WATER MAIN	---
PROPERTY LINE	---
TEMPORARY CONSTRUCTION ESMT	---
PERMANENT WATER ESMT	---
STEEL CASING	---
CONCRETE ENCASUREMENT	---
CITY LIMITS	---

QUANTITY TABLE

ITEM	DESCRIPTION	UNIT	QTY
503.5	GRAVEL DRIVEWAY	SY	67
550	TRENCH EXCAVATION PROTECTION	LF	1100
818	24-INCH PVC C-900 (DR 18) PIPE	LF	1100
828	24" BUTTERFLY VALVE, FLG W/ 6" VALVE BOX, COMPLETE	EA	1
834	STANDARD FIRE HYDRANT ASSEMBLY	EA	1
836	DUCTILE IRON FITTINGS	TON	0.44

24" WATER MAIN
STA. 78+00 TO 89+00
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



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Address: 17319 SAN PEDRO AVE, STE 140
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210564,212564,214564,214566,216566,216568,226572
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Total Linear Footage of Pipe 5 LF=12" PVC, 162 LF=18" PVC, 15,378 LF=24" PVC Plat No./N/A
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-1043

DATE: 11/07/23
NO. REVISION: 1
ADDENDUM: 1

Jason T. Diamond
11-7-23

PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008860

LUENSMANN OFF-SITE WATER MAIN EXTENSION (PHASE 1)
BEXAR COUNTY, TEXAS
WATER MAIN PLAN AND PROFILE
STA 78+00 TO 89+00

PLAT NO.
JOB NO. 12473-09
DATE MARCH 2023
DESIGNER CD
CHECKED MP DRAWN CD
SHEET C3.07

Date: Nov 10, 2023, 4:06pm User: JD: Robert Jones
File: P:\12473\23\02_Vesign_Civil\WTP1-1247309-1-00-100-00.dwg

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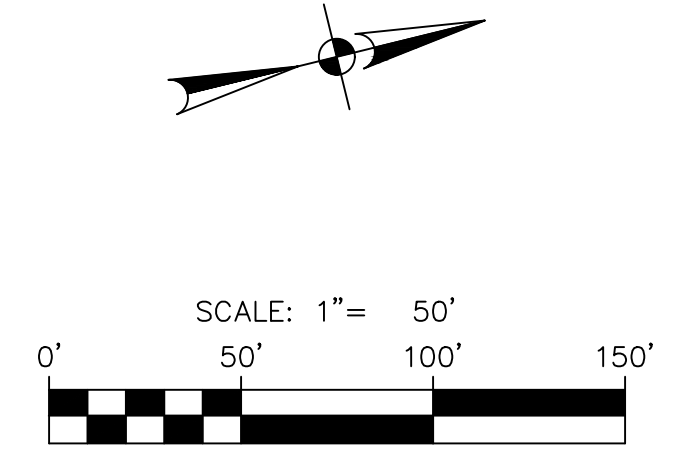
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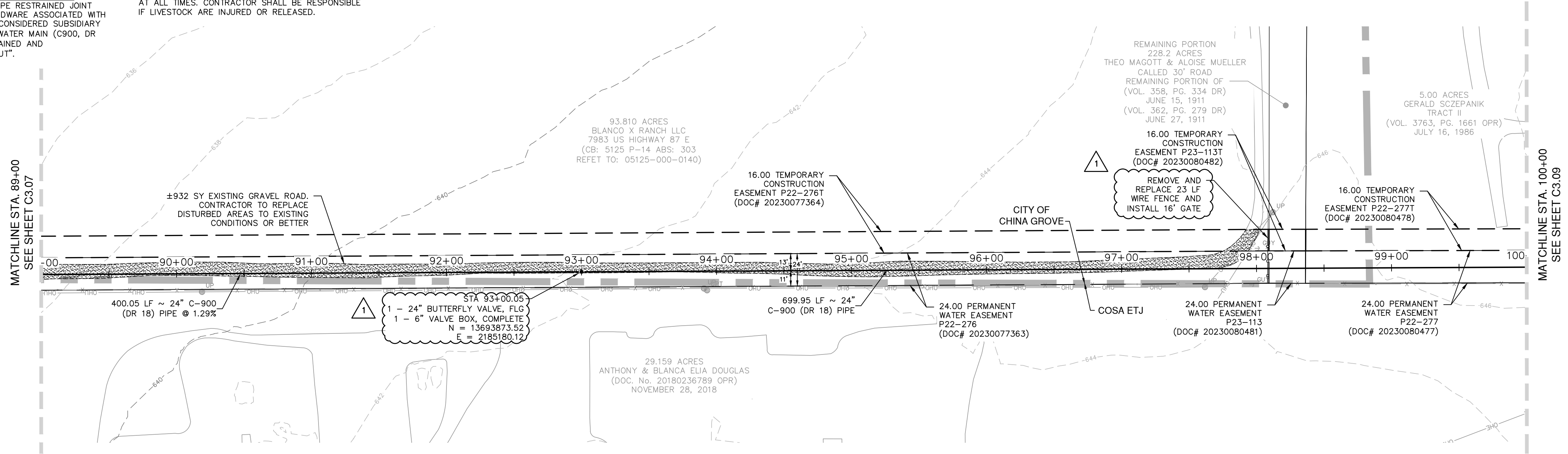


LEGEND

- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPERTY LINE
- TEMPORARY CONSTRUCTION ESMT
- PERMANENT WATER ESMT
- STEEL CASING
- CONCRETE ENCASUREMENT
- CITY LIMITS

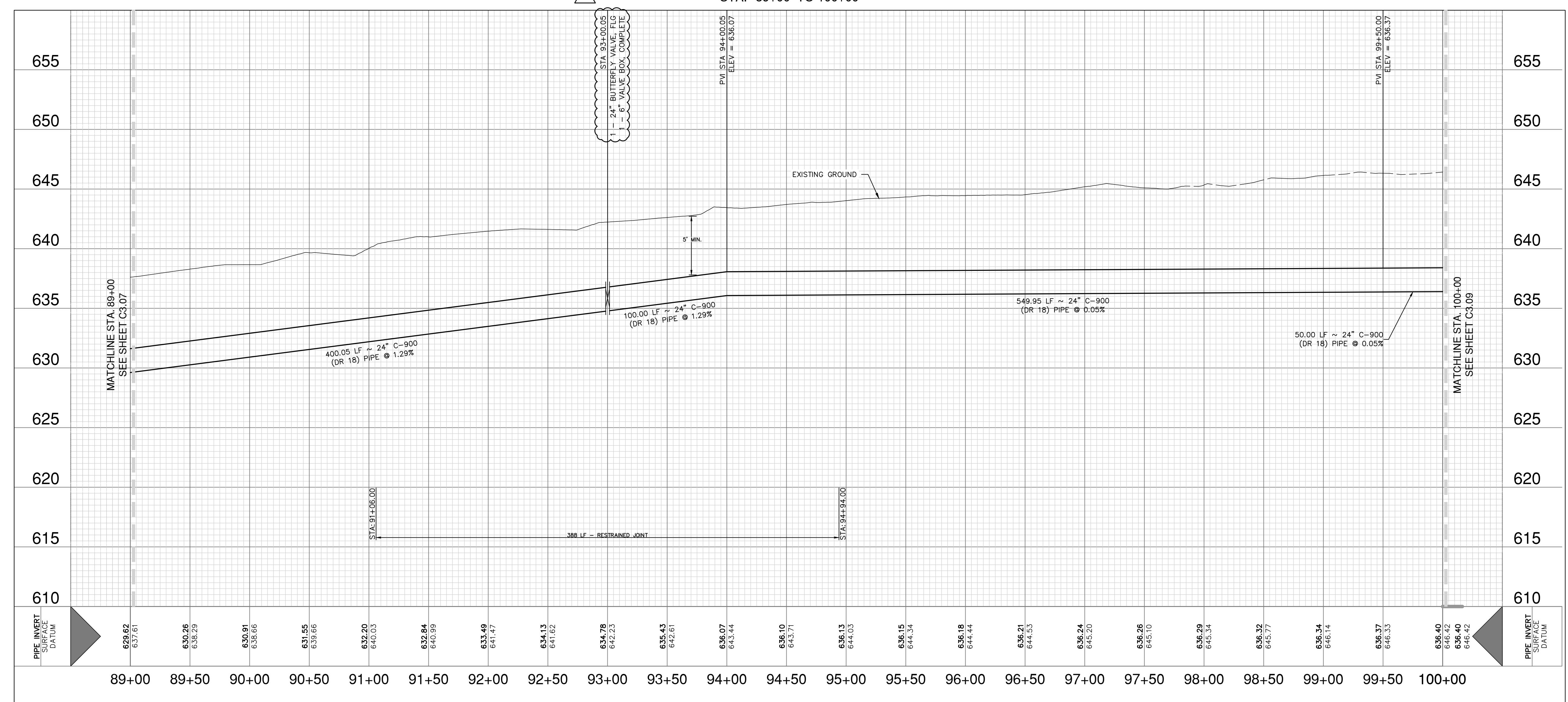
QUANTITY TABLE

ITEM	DESCRIPTION	UNIT	QTY
503.5	GRAVEL DRIVEWAY	SY	932
507	FENCE GATE 16" TYPE	EA	1
508	REMOVE AND REPLACE EXISTING FENCE	LF	23
550	TRENCH EXCAVATION PROTECTION	LF	1100
818	24-INCH PVC C-900 (DR 18) PIPE	LF	1100
828	24" BUTTERFLY VALVE, FLG W/ 6" VALVE BOX, COMPLETE	EA	1



**24" WATER MAIN
STA. 89+00 TO 100+00**

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



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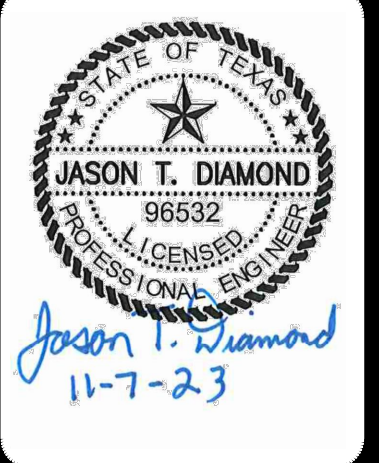
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**WATER: SAWS PRESSURE ZONE 828
LUENSMANN OFF-SITE WATER MAIN EXTENSION PHASE 1**

Developer's Name: STARLIGHT HOMES FOR TEXAS, LLC
Address: 17319 SAN PEDRO AVE, STE 140
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone# (210) 899-5124 FAX# N/A
#210564,212564,214564,214566,216566,216568,226572
SAWS Block Map# 216570,216572,218572,220572,222572,224572 Total Acreage 48.81
Total Linear Footage of Pipe 5 LF=12" PVC, 162 LF=18" PVC, 15,378 LF=24" PVC Plat No./N/A
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-1043

DATE	11/07/23
NO.	1
REVISION	ADDENDUM 1



PAPE-DAWSON ENGINEERS
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008880

LUENSMANN OFF-SITE WATER MAIN EXTENSION (PHASE 1)
BEXAR COUNTY, TEXAS
WATER MAIN PLAN AND PROFILE
STA 89+00 TO 100+00

PLAT NO.	
JOB NO.	12473-09
DATE	MARCH 2023
DESIGNER	CD
CHECKED	MP DRAWN CD
SHEET	C3.08

Date: Nov 10, 2023, 4:07pm User: J. Robert Jones
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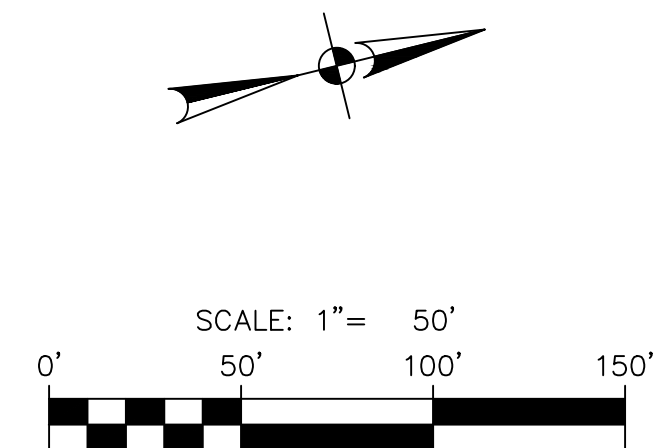
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LEGEND

PROPOSED WATER MAIN	---
EXISTING WATER MAIN	---
PROPERTY LINE	---
TEMPORARY CONSTRUCTION ESMT	---
PERMANENT WATER ESMT	---
STEEL CASING	---
CONCRETE ENCASUREMENT	---

QUANTITY TABLE

ITEM	DESCRIPTION	UNIT	QTY
503.5	GRAVEL DRIVEWAY	SY	731
507	FENCE GATE 16" TYPE	EA	2
508	REMOVE AND REPLACE EXISTING FENCE	LF	49
550	TRENCH EXCAVATION PROTECTION	LF	1080
818	24-INCH PVC C-900 (DR 18) PIPE (OPEN CUT)	LF	1080
828	24" BUTTERFLY VALVE, FLG W/ 6" VALVE BOX, COMPLETE	EA	1
836	DUCTILE IRON FITTINGS	TON	0.85
846	2" COMBINATION A.R.V. ASSEMBLY	EA	1
856.1	48" JACK AND BORE TUNNELING	LF	20
856.2	48" STEEL CASING	LF	20
856.3	24-INCH PVC C-900 (DR 18) CARRIER PIPE	LF	20

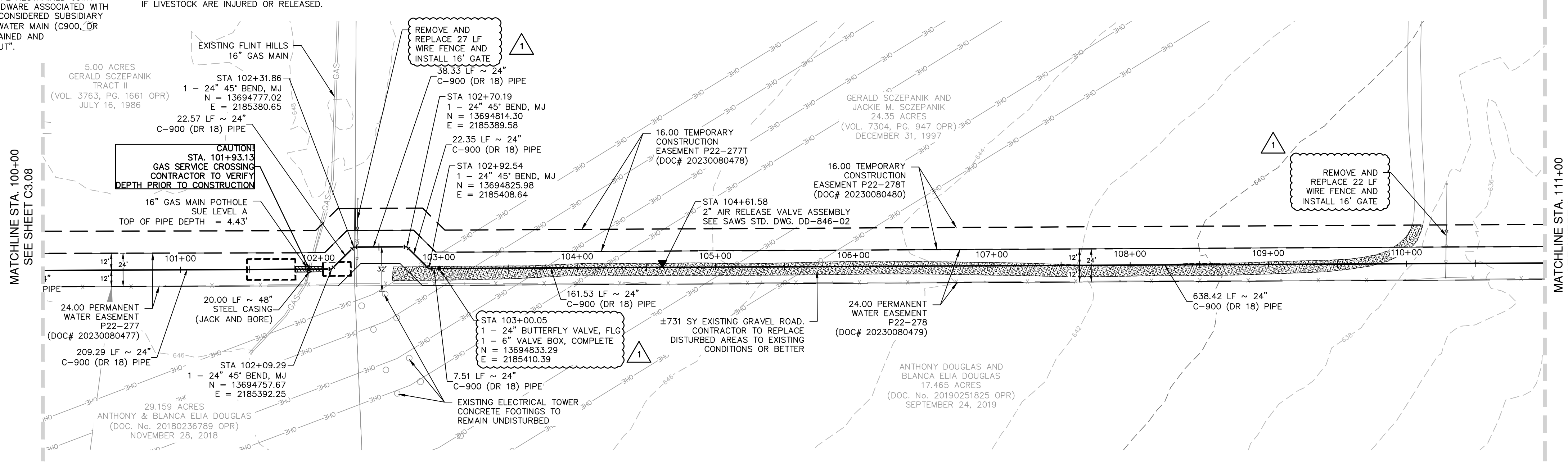
DATE: 11/07/23
NO. REVISION: ADDENDUM 1
1

Jason T. Diamond
11-7-23

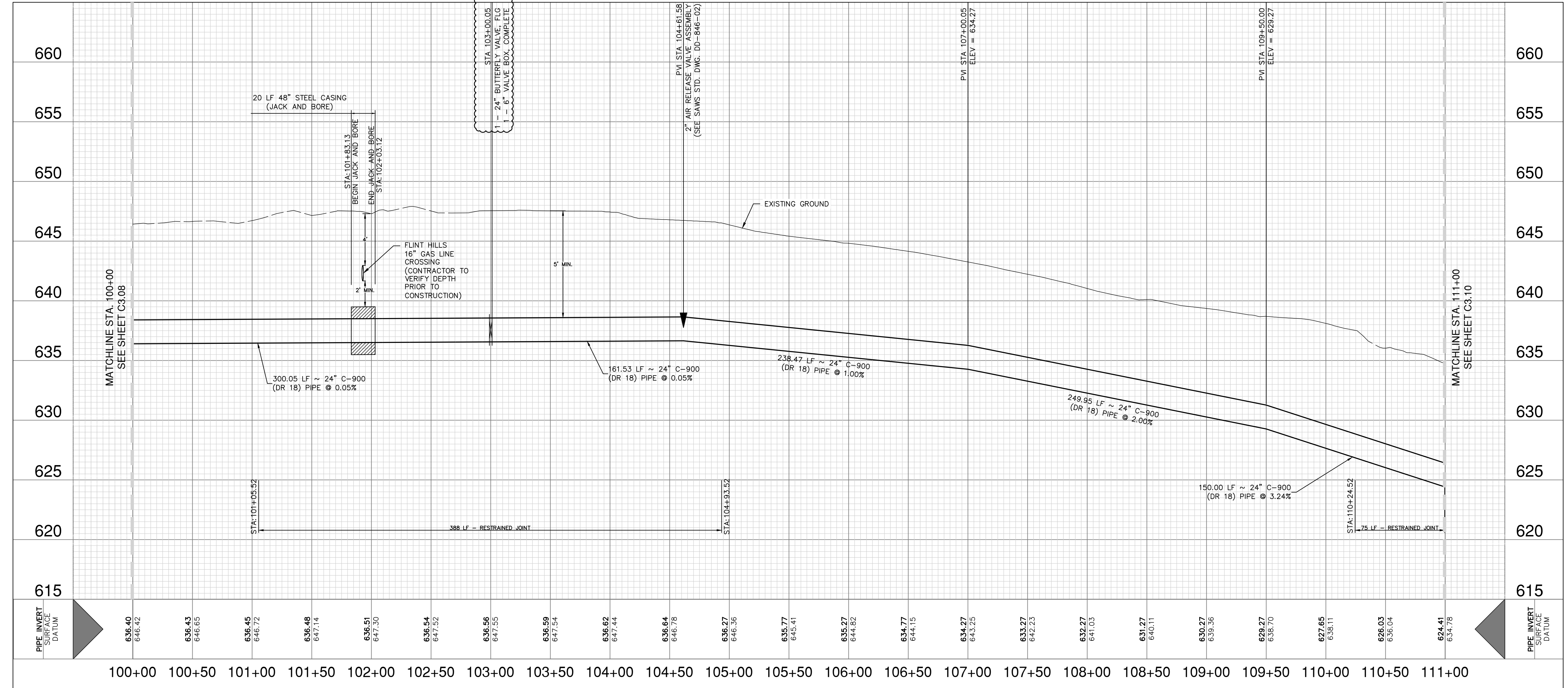
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2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008860

LUENSMANN OFF-SITE WATER MAIN EXTENSION (PHASE 1)
BEXAR COUNTY, TEXAS
WATER MAIN PLAN AND PROFILE
STA 100+00 TO 111+00

PLAT NO.
JOB NO. 12473-09
DATE MARCH 2023
DESIGNER CD
CHECKED MP DRAWN CD
SHEET C3.09



24" WATER MAIN STA. 100+00 TO 111+00
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



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WATER: SAWS PRESSURE ZONE 828

LUENSMANN OFF-SITE WATER MAIN EXTENSION PHASE 1

Developer's Name: STARLIGHT HOMES FOR TEXAS, LLC
Address: 17319 SAN PEDRO AVE, STE 140
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone# (210) 899-5124 FAX# N/A
210564,212564,214564,214566,216566,216568,226572
SAWS Block Map# 216570,216572,218572,220572,222572,224572 Total Acreage 48.81
228572,230572,232572,234572,236572,238572,240572,242572,244572,246572,248572,250572
Total Linear Footage of Pipe 5 LF=12" PVC, 162 LF=18" PVC, 15,378 LF=24" PVC Plat No./N/A
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-1043

Date: Nov 10, 2023, 4:08pm User: J. Robert Jones File: P:\12473\23\03\Design\Civil\WTP1-1247309-100+00-194+00.dwg

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FIRE HYDRANT LEAD FREE NOTE

SAWS REQUIRES GCPS AND COUNTER PERMITS TO USE LEAD FREE (<0.25% LEAD) FIRE HYDRANTS.

ALL PROPOSED 24" WATER MAIN SHALL BE

24" C-900 (DR 18) PVC PIPE

RESTRAINED JOINT NOTE

ALL 24" WATER MAIN PIPE RESTRAINED JOINT MATERIAL AND THE HARDWARE ASSOCIATED WITH THESE MATERIALS ARE CONSIDERED SUBSIDIARY TO THE BID ITEM "24" WATER MAIN (C900, DR 18, CLASS 235), RESTRAINED AND UNRESTRAINED, OPEN CUT".

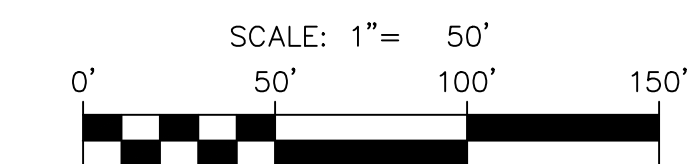
BUTTERFLY VALVE NOTE

ALL 24" BUTTERFLY VALVES SHALL BE CLASS 250 RATED.

CONTRACTOR NOTE

- PRIVATE DRIVEWAY ACCESS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- LIVESTOCK MAY BE PRESENT DURING CONSTRUCTION. CONTRACTOR TO KEEP GATES CLOSED AT ALL TIMES. CONTRACTOR SHALL BE RESPONSIBLE IF LIVESTOCK ARE INJURED OR RELEASED.

MATCHLINE STA. 114+50
SEE THIS SHEET



LEGEND

PROPOSED WATER MAIN	
EXISTING WATER MAIN	
PROPERTY LINE	
TEMPORARY CONSTRUCTION ESMT	
PERMANENT WATER ESMT	
STEEL CASING	
CONCRETE ENCASEMENT	

QUANTITY TABLE

ITEM	DESCRIPTION	UNIT	QTY
503.5	GRAVEL DRIVEWAY	SY	130
507	FENCE GATE 16" TYPE	EA	1
508	REMOVE AND REPLACE EXISTING FENCE	LF	23
550	TRENCH EXCAVATION PROTECTION	LF	1050
818	24-INCH PVC C-900 (DR 18) PIPE	LF	1050
828	24" BUTTERFLY VALVE, FLG W/ 6" VALVE BOX, COMPLETE	EA	1
836	DUCTILE IRON FITTINGS	TON	0.85

DATE: 11/07/23

NO. REVISION: 1

ADDENDUM: 1

Jason T. Diamond
11-7-23

PAPE-PAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008880

LUENSMANN OFF-SITE WATER MAIN EXTENSION (PHASE 1)

BEXAR COUNTY, TEXAS

WATER MAIN PLAN AND PROFILE

STA 111+00 TO 121+50

PLAT NO. 12473-09

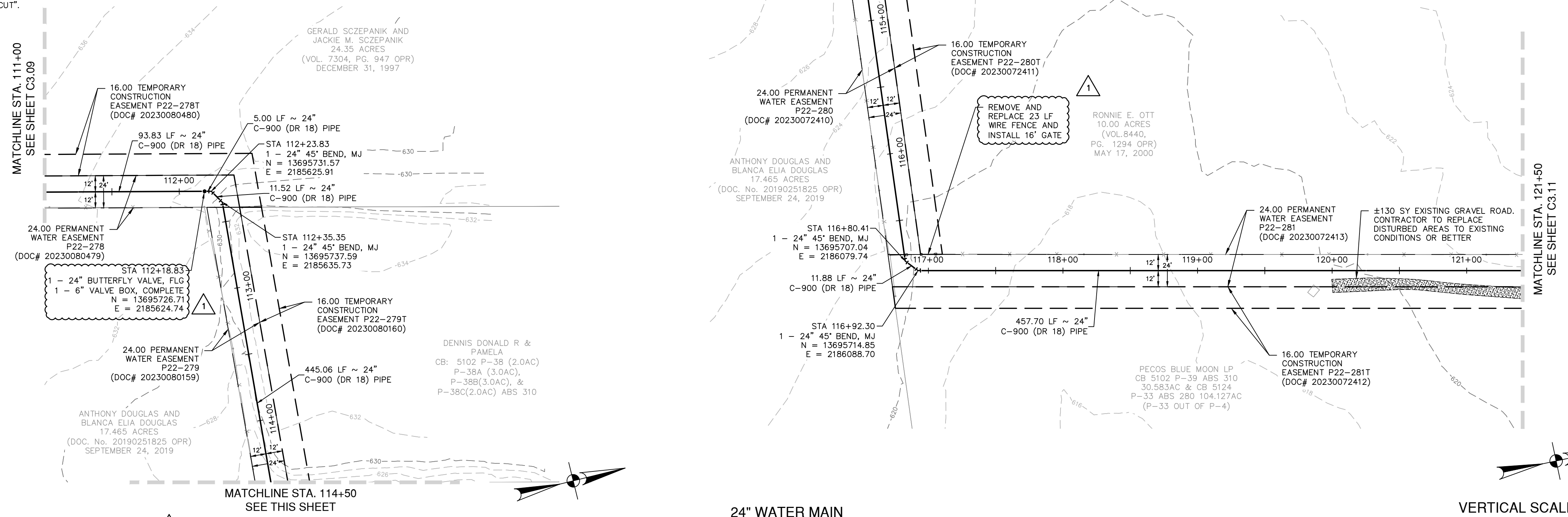
JOB NO. 12473-09

DATE: MARCH 2023

DESIGNER: CD

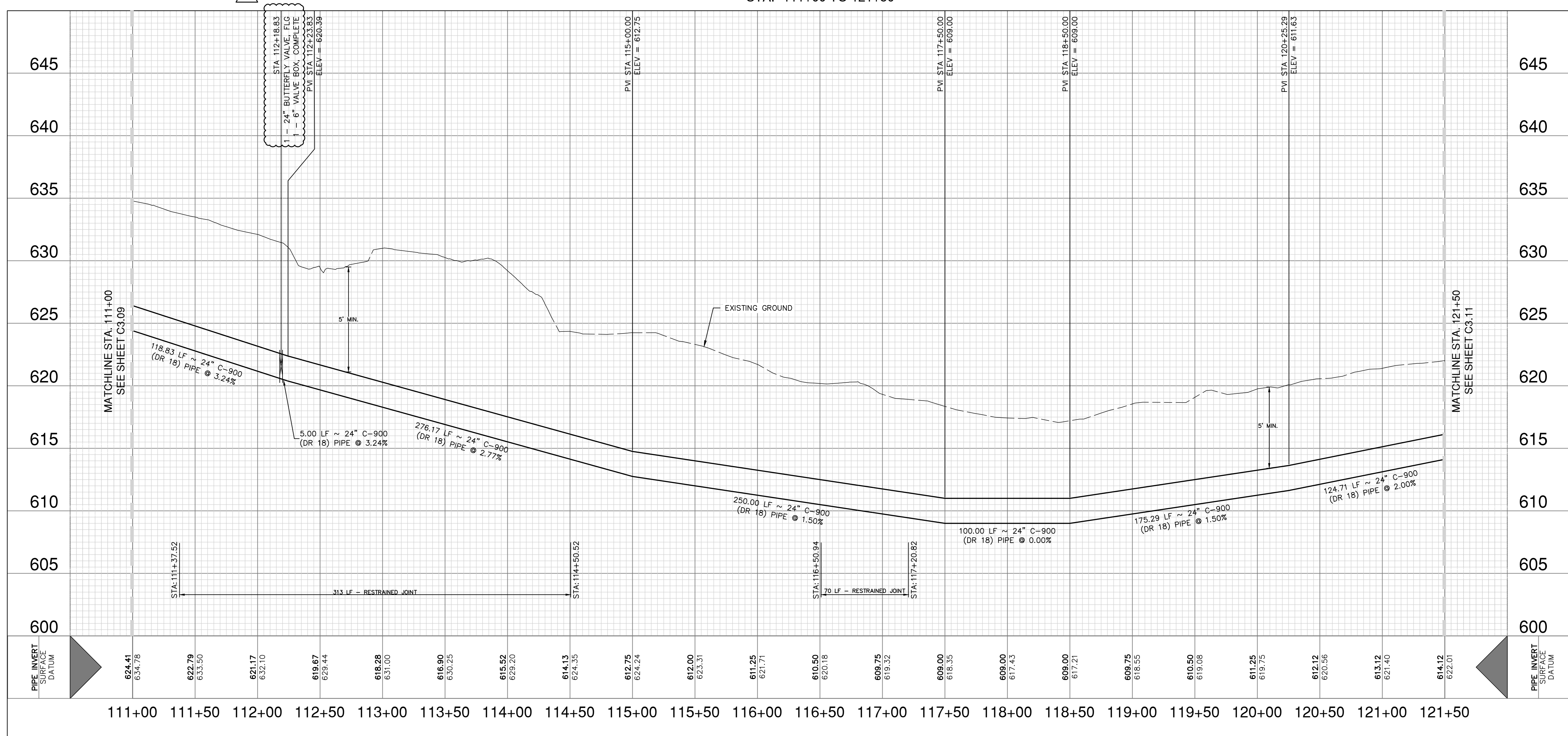
CHECKED: MP DRAWN: CD

SHEET: C3.10



24" WATER MAIN
STA. 111+00 TO 121+50

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



CPS UTILITY NOTE

CONTRACTOR TO MAINTAIN A MINIMUM 5 FOOT CLEARANCE FROM UTILITY POLES AND 30 FEET FROM TRANSMISSION TOWERS FOR ANY OPEN EXCAVATION. IF MINIMUM CLEARANCE CANNOT BE OBTAINED, CONTRACTOR TO COORDINATE AND SCHEDULE WITH CPS TO BRACE UTILITY POLE.

CAUTION UNDERGROUND UTILITIES

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINES, SITE LIGHTING, ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCT BANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. THE CONTRACTOR MUST CONTACT 1-800-DIG-TESS AND CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION

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210564, 212564, 214564, 214566, 216566, 216568, 226572
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Total Linear Footage of Pipe 5 LF=12" PVC, 162 LF=18" PVC, 15,378 LF=24" PVC Plat No./N/A
Number of Lots: N/A TOTAL EDS: N/A SAWS JOB NO.: 23-1043

Date: Nov 10, 2023 4:09pm User ID: Robert Jones
File: P:\12473\3\03_Design\Civil\WTP1-1247309-100+00-194+00.dwg

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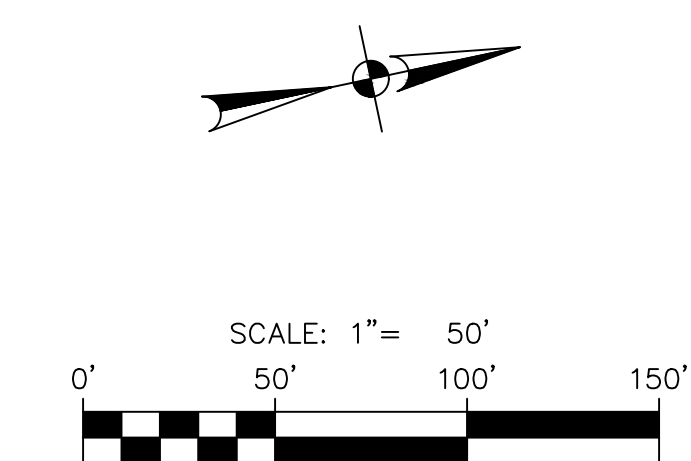
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LEGEND

- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPERTY LINE
- TEMPORARY CONSTRUCTION ESMT
- PERMANENT WATER ESMT
- STEEL CASING
- CONCRETE ENCASUREMENT

QUANTITY TABLE

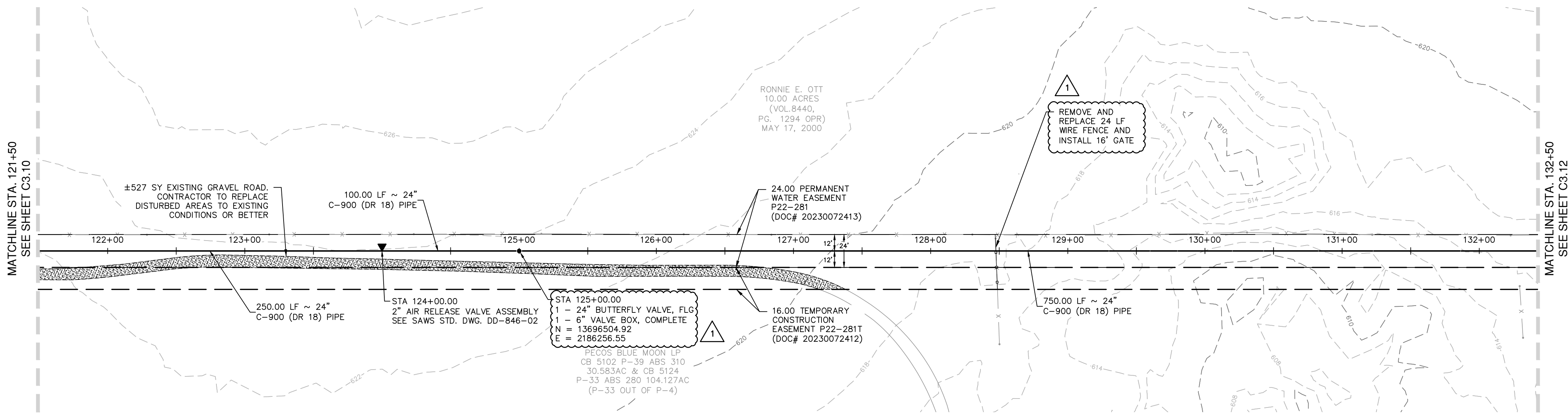
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828	24" BUTTERFLY VALVE, FLG W/ 6" VALVE BOX, COMPLETE	EA	1
846	2" COMBINATION A.R.V. ASSEMBLY	EA	1

DATE: 11/07/23
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ADDENDUM: 1

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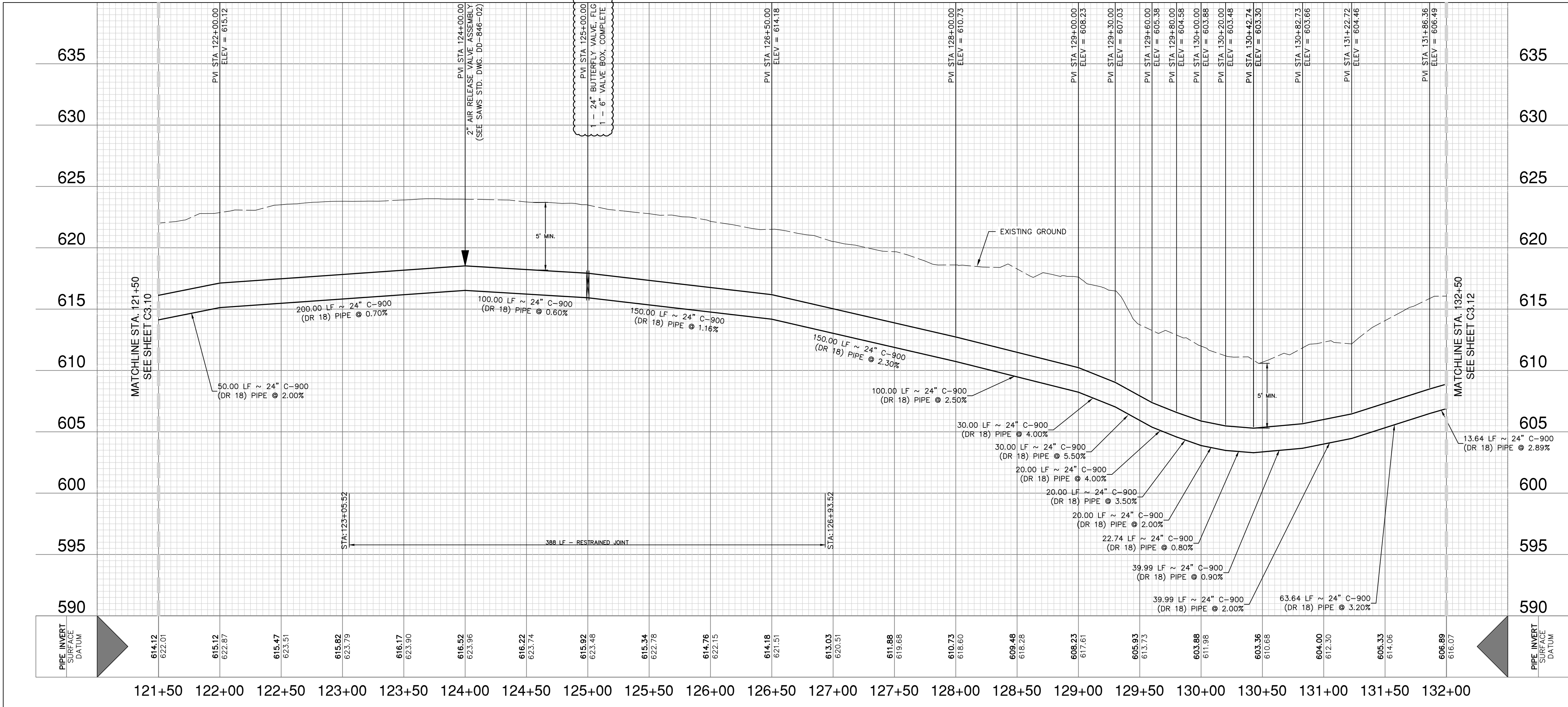
LUENSMANN OFF-SITE WATER MAIN EXTENSION (PHASE 1)
BEXAR COUNTY, TEXAS
WATER MAIN PLAN AND PROFILE
STA 121+50 TO 132+50

PLAT NO. _____
JOB NO. 12473-09
DATE MARCH 2023
DESIGNER CD
CHECKED MP DRAWN CD
SHEET C3.11



24" WATER MAIN STA. 121+50 TO 132+50

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



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Number of Lots: N/A TOTAL EDU'S: N/A SAWS JOB NO.: 23-1043

Date: Nov 10, 2023 4:10pm User: R. Robert User: R. Robert User: R. Robert
File: P:\12473\23\03\Design\Civil\WTPP1-1247309-100+00-994+00.dwg

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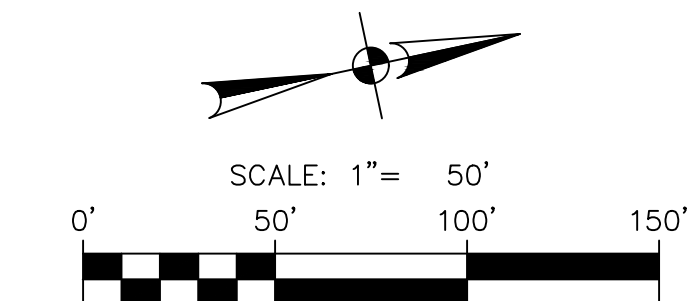
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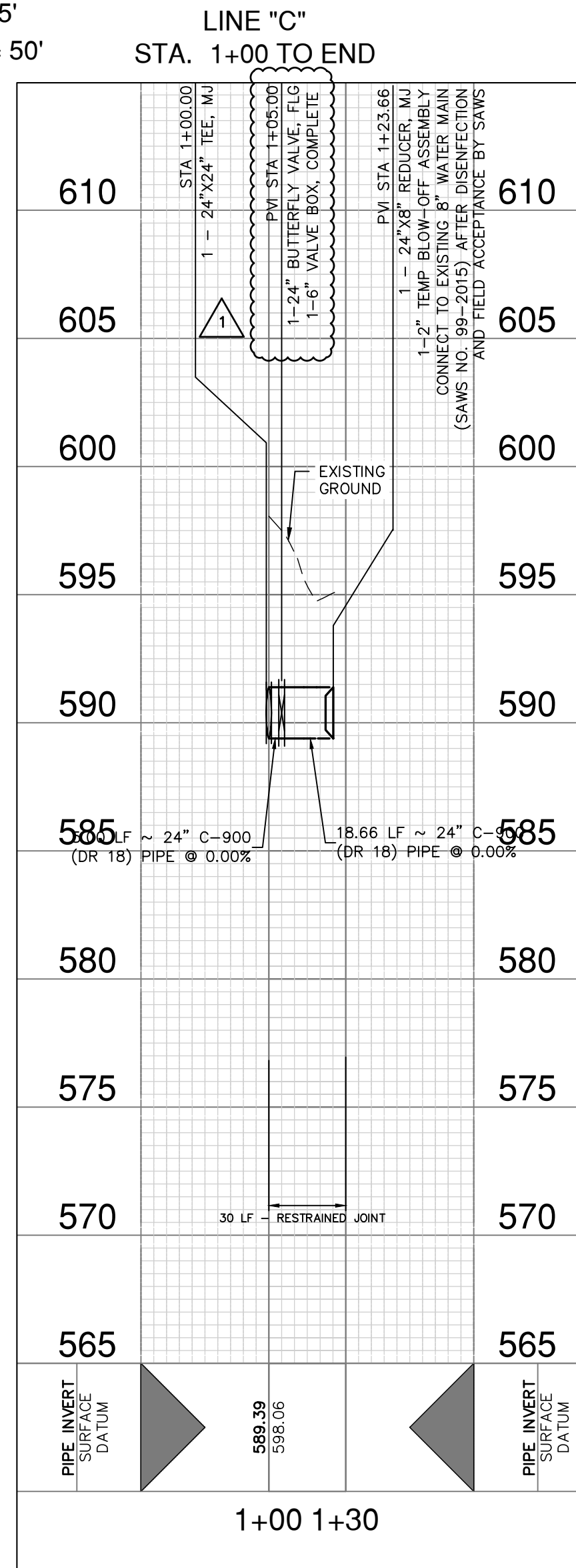
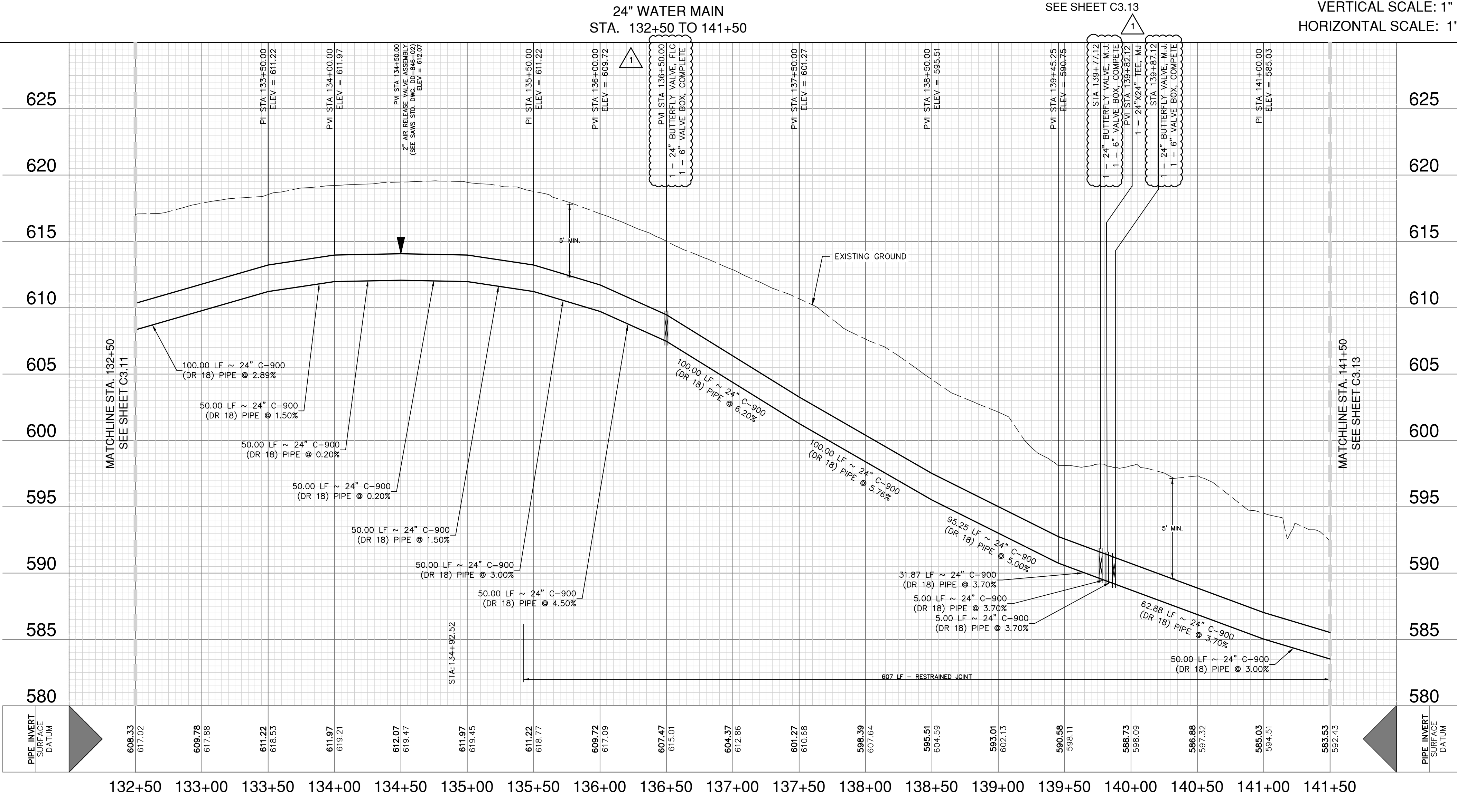
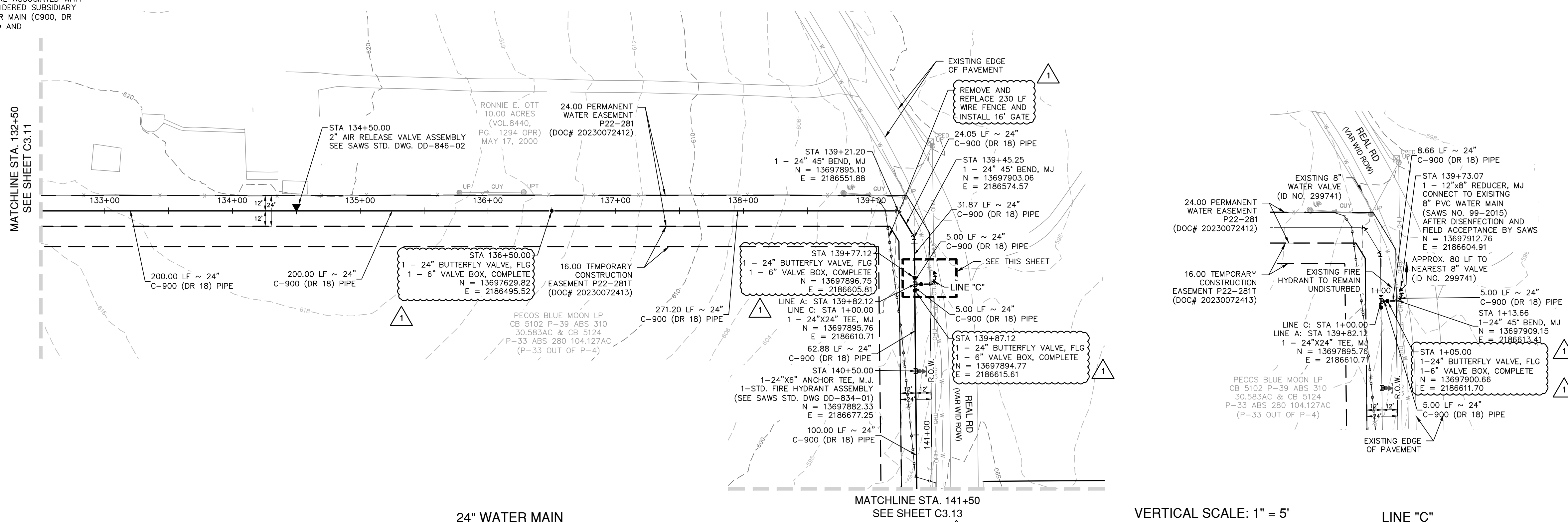
QUANTITY TABLE

ITEM	DESCRIPTION	UNIT	QTY
507	FENCE GATE 16' TYPE 1	EA	1
508	REMOVE AND REPLACE EXISTING FENCE	LF	230
818	TRENCH EXCAVATION PROTECTION	LF	324
818	24-INCH PVC C-900 (DR 18) PIPE	LF	924
828	24" BUTTERFLY VALVE, FLG W/ 6" VALVE BOX, COMPLETE	EA	4
834	STANDARD FIRE HYDRANT ASSEMBLY	EA	1
836	DUCTILE IRON FITTINGS	TON	1.09
840	WATER TIE-IN TO 8" EXISTING MAIN	EA	1
846	2" COMBINATION A.R.V. ASSEMBLY	EA	1

DATE: 11/07/23
NO. REVISION: ADDENDUM 1
STATE OF TEXAS
JASON T. DIAMOND
PROFESSIONAL ENGINEER
96532
11-7-23

PAPE-DAWSON ENGINEERS
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LUENSMANN OFF-SITE WATER MAIN EXTENSION (PHASE 1)
BEXAR COUNTY, TEXAS
WATER MAIN PLAN AND PROFILE STA 132+50 TO 141+50
PLAT NO. _____
JOB NO. 12473-09
DATE MARCH 2023
DESIGNER CD
CHECKED MP DRAWN CD
SHEET C3.12



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WATER: SAWS PRESSURE ZONE 828
LUENSMANN OFF-SITE WATER MAIN EXTENSION PHASE 1

Developer's Name: STARLIGHT HOMES FOR TEXAS, LLC
Address: 17319 SAN PEDRO AVE, STE 140
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone: (210) 899-5124 FAX: N/A
210564,212564,214564,214566,216566,216568,226572
SAWS Block Map# 216570,216572,218572,220572,222572,224572 Total Acreage 45.81
Total Linear Footage of Pipe 5 LF=12" PVC, 162 LF=18" PVC, 15,378 LF=24" PVC Plat No./N/A
Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-1043

Date: Nov 10, 2023, 4:11pm User: J. Diamond
File: P:\23\2305\Design\Civil\WTPP1-1247309-100-00-194-00.dwg

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FIRE HYDRANT LEAD FREE NOTE BUTTERFLY VALVE NOTE

SAWS REQUIRES GCPS AND COUNTER PERMITS TO USE LEAD FREE (<0.25% LEAD) FIRE HYDRANTS.

ALL 24" BUTTERFLY VALVES SHALL BE CLASS 250 RATED.

ALL PROPOSED 24" WATER MAIN SHALL BE

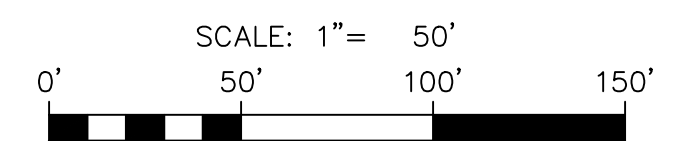
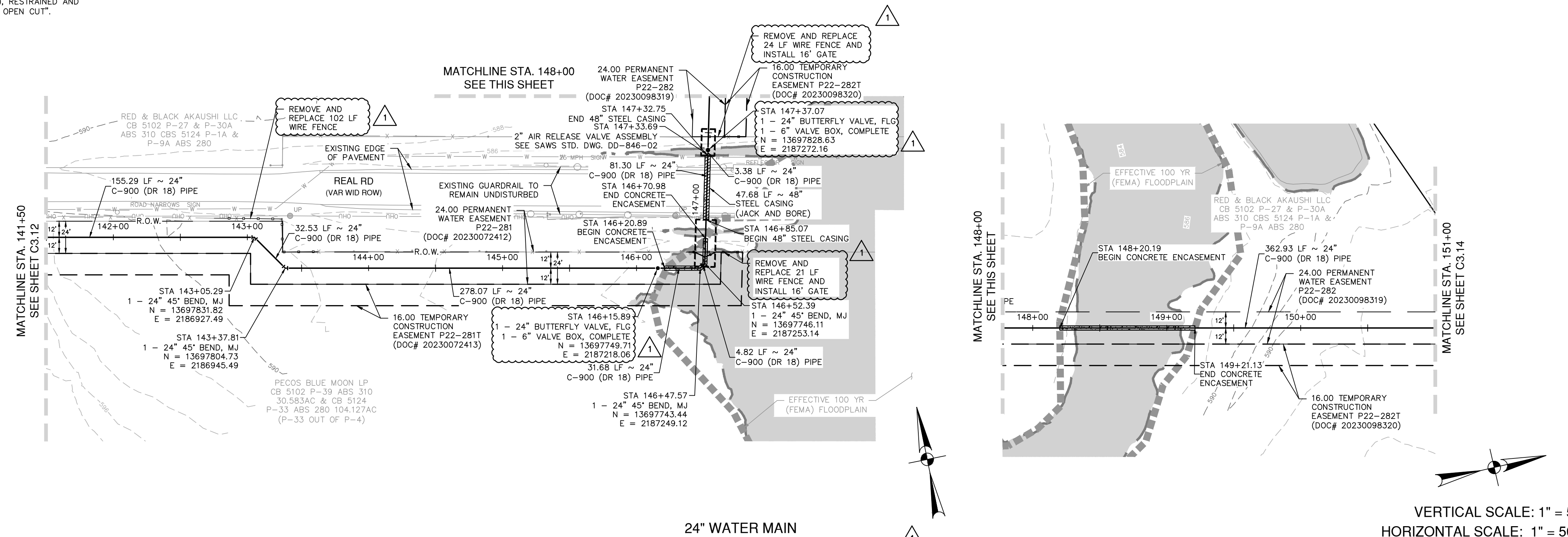
24" C-900 (DR 18) PVC PIPE

CONTRACTOR NOTE

- PRIVATE DRIVEWAY ACCESS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- LIVESTOCK MAY BE PRESENT DURING CONSTRUCTION. CONTRACTOR TO KEEP GATES CLOSED AT ALL TIMES. CONTRACTOR SHALL BE RESPONSIBLE IF LIVESTOCK ARE INJURED OR RELEASED.

RESTRAINED JOINT NOTE

ALL 24" WATER MAIN PIPE RESTRAINED JOINT MATERIAL AND THE HARDWARE ASSOCIATED WITH THESE MATERIALS ARE CONSIDERED SUBSIDIARY TO THE BID ITEM "24" WATER MAIN (C900, DR 18, CLASS 235), RESTRAINED AND UNRESTRAINED, OPEN CUT".



LEGEND

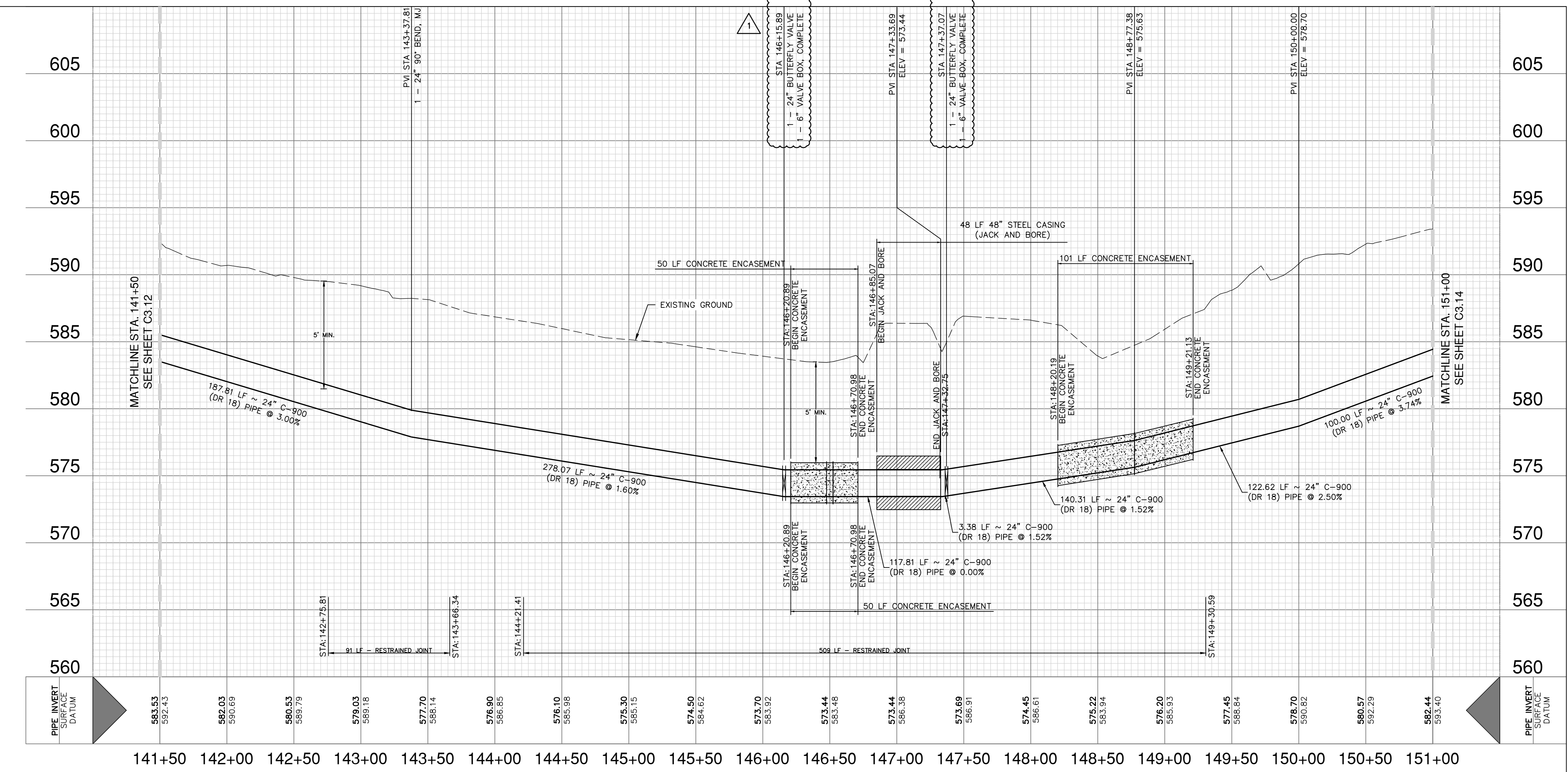
PROPOSED WATER MAIN	---
EXISTING WATER MAIN	---
PROPERTY LINE	---
TEMPORARY CONSTRUCTION ESMT	---
PERMANENT WATER ESMT	---
STEEL CASING	---
CONCRETE ENCASUREMENT	---

QUANTITY TABLE

ITEM	DESCRIPTION	UNIT	QTY
507	FENCE GATE 16" TYPE 1	EA	2
508	REMOVE AND REPLACE EXISTING FENCE	LF	147
509	TRENCH EXCAVATION PROTECTION	LF	902
818	24-INCH PVC C-900 (DR 18) PIPE	LF	902
828	24" BUTTERFLY VALVE, FLG W/ 6" VALVE BOX, COMPLETE	EA	2
836	DOCTILE-IRON FITTINGS	TON	0.88
846	2" COMBINATION A.R.V. ASSEMBLY	EA	48
856.1	48" JACK AND BORE TUNNELING	LF	48
856.2	48" STEEL CASING	LF	48
856.3	24-INCH PVC C-900 (DR 18) CARRIER PIPE	LF	48
858	CONCRETE ENCASUREMENT	CY	33

24" WATER MAIN STA. 141+50 TO 151+00

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



CPS UTILITY NOTE

CONTRACTOR TO MAINTAIN A MINIMUM 5 FOOT CLEARANCE FROM UTILITY POLES AND 30 FEET FROM TRANSMISSION TOWERS FOR ANY OPEN EXCAVATION. IF MINIMUM CLEARANCE CANNOT BE OBTAINED, CONTRACTOR TO COORDINATE AND SCHEDULE WITH CPS TO BRACE UTILITY POLE.

CAUTION UNDERGROUND UTILITIES

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WATER: SAWS PRESSURE ZONE 828

LUENSMANN OFF-SITE WATER MAIN EXTENSION PHASE 1

Developer's Name: STARLIGHT HOMES FOR TEXAS, LLC
Address: 17319 SAN PEDRO AVE, STE 140
City: SAN ANTONIO State: TEXAS ZIP: 78232
Phone: (210) 899-5124 FAX: N/A
210564,212564,214564,214566,216566,216568,226572
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Total Linear Footage of Pipe 5 LF-12" PVC, 162 LF-18" PVC, 15,378 LF-24" PVC Plat No./N/A
Number of Lots: N/A TOTAL EDU'S: N/A SAWS JOB NO.: 23-1043

DATE	11/07/23
NO.	1
REVISION	ADDENDUM 1



PAPE-PAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 HWY LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1008880

LUENSMANN OFF-SITE WATER MAIN EXTENSION (PHASE 1)
BEXAR COUNTY, TEXAS
WATER MAIN PLAN AND PROFILE
STA 141+50 TO 151+00

PLAT NO.	
JOB NO.	12473-09
DATE	MARCH 2023
DESIGNER	CD
CHECKED	MP DRAWN CD
SHEET	C3.13

Date: Nov 10, 2023, 4:12pm User: JD - Robert Jones File: P:\24\23\03\Design\Civil\WTPP1-1247309-100-00-194-00.dwg

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FIRE HYDRANT LEAD FREE NOTE

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ALL PROPOSED 24" WATER MAIN SHALL BE

24" C-900 (DR 18) PVC PIPE

RESTRAINED JOINT NOTE

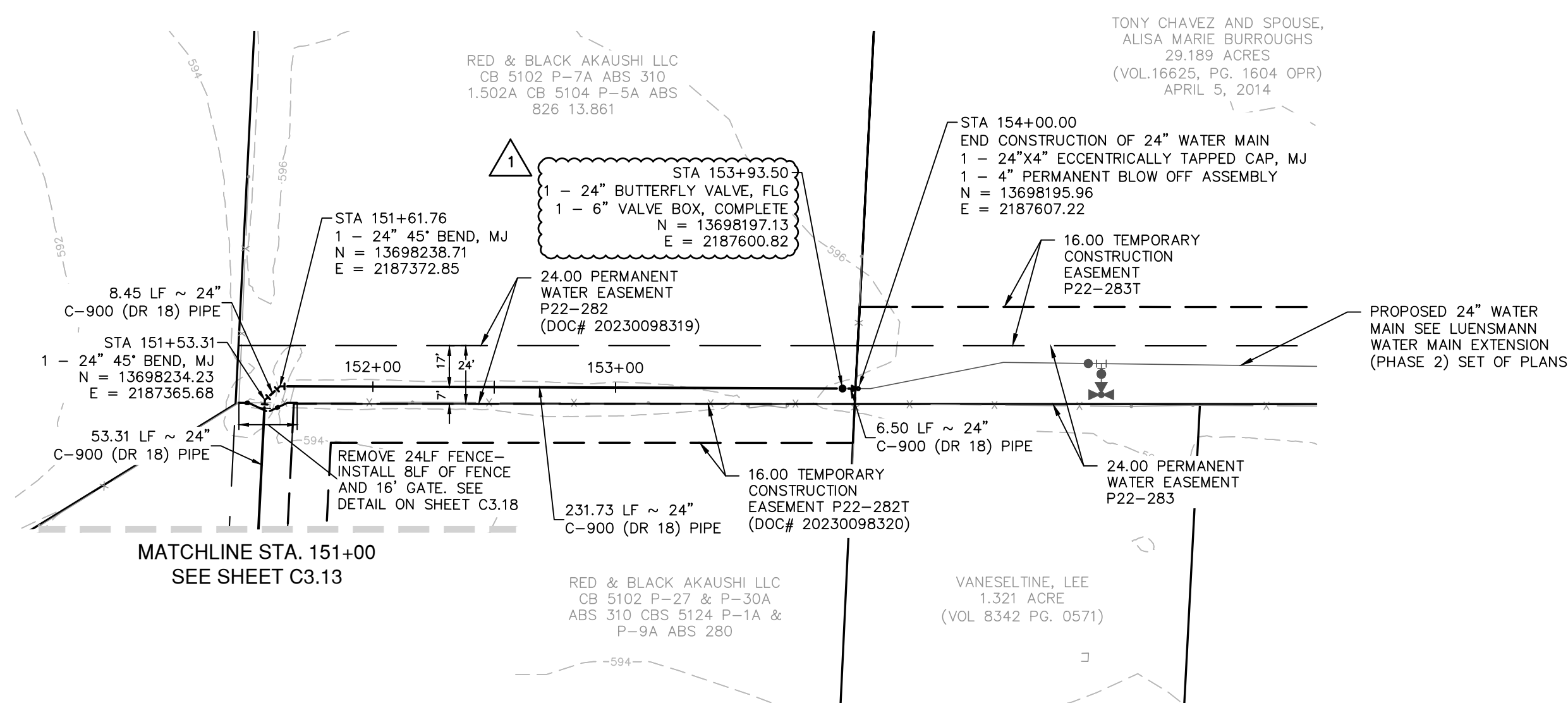
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BUTTERFLY VALVE NOTE

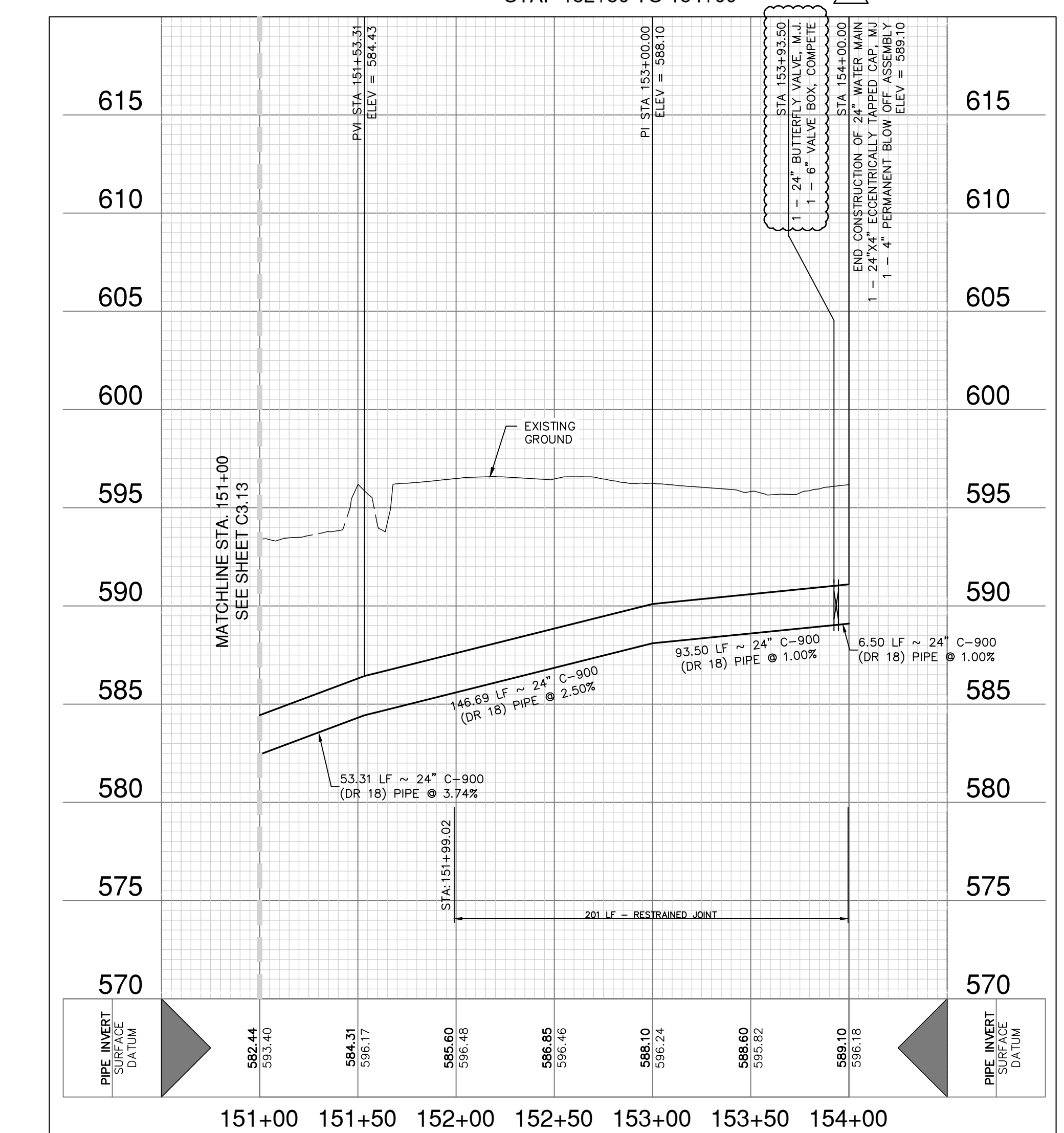
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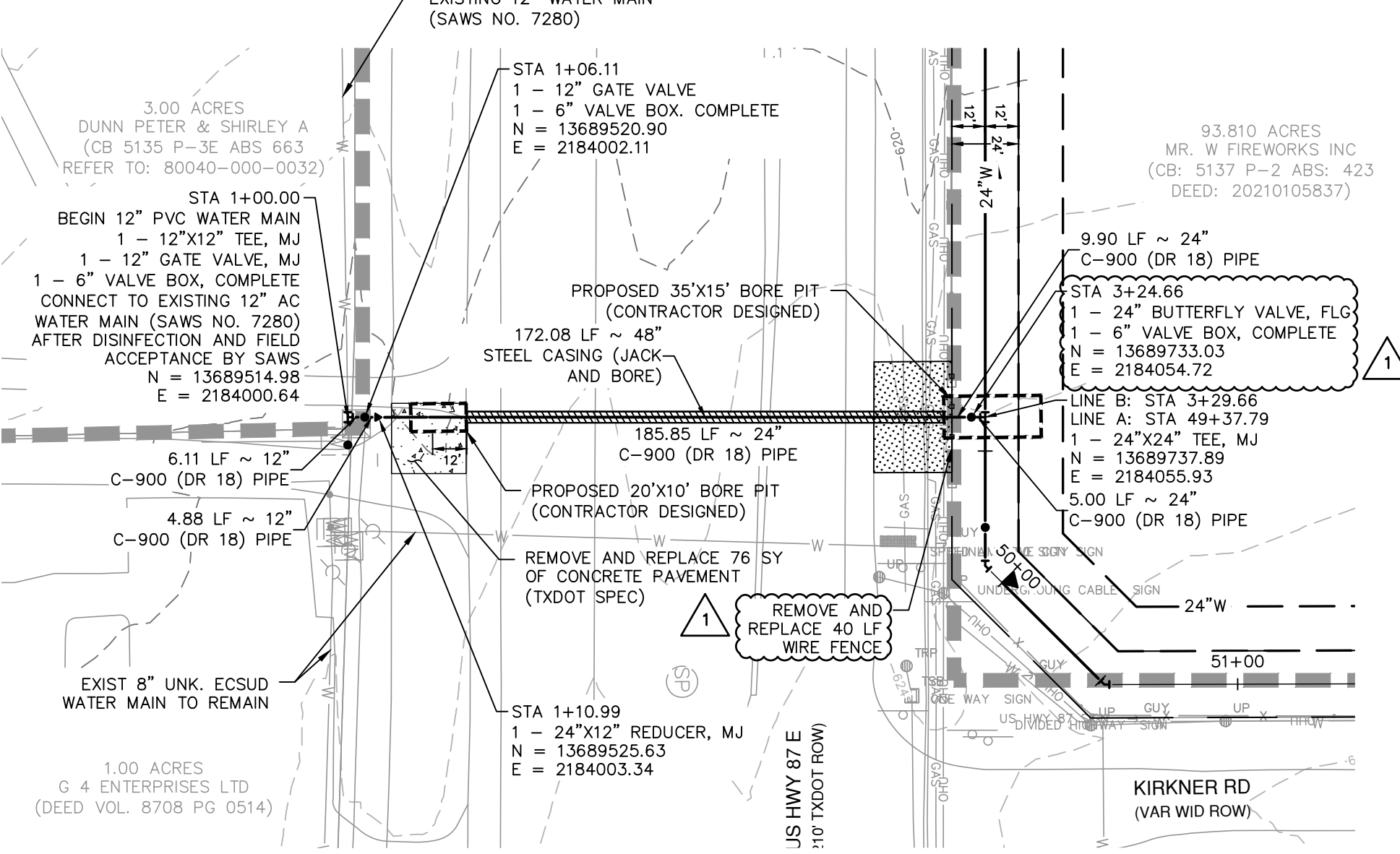
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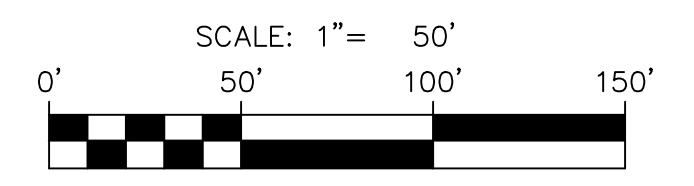
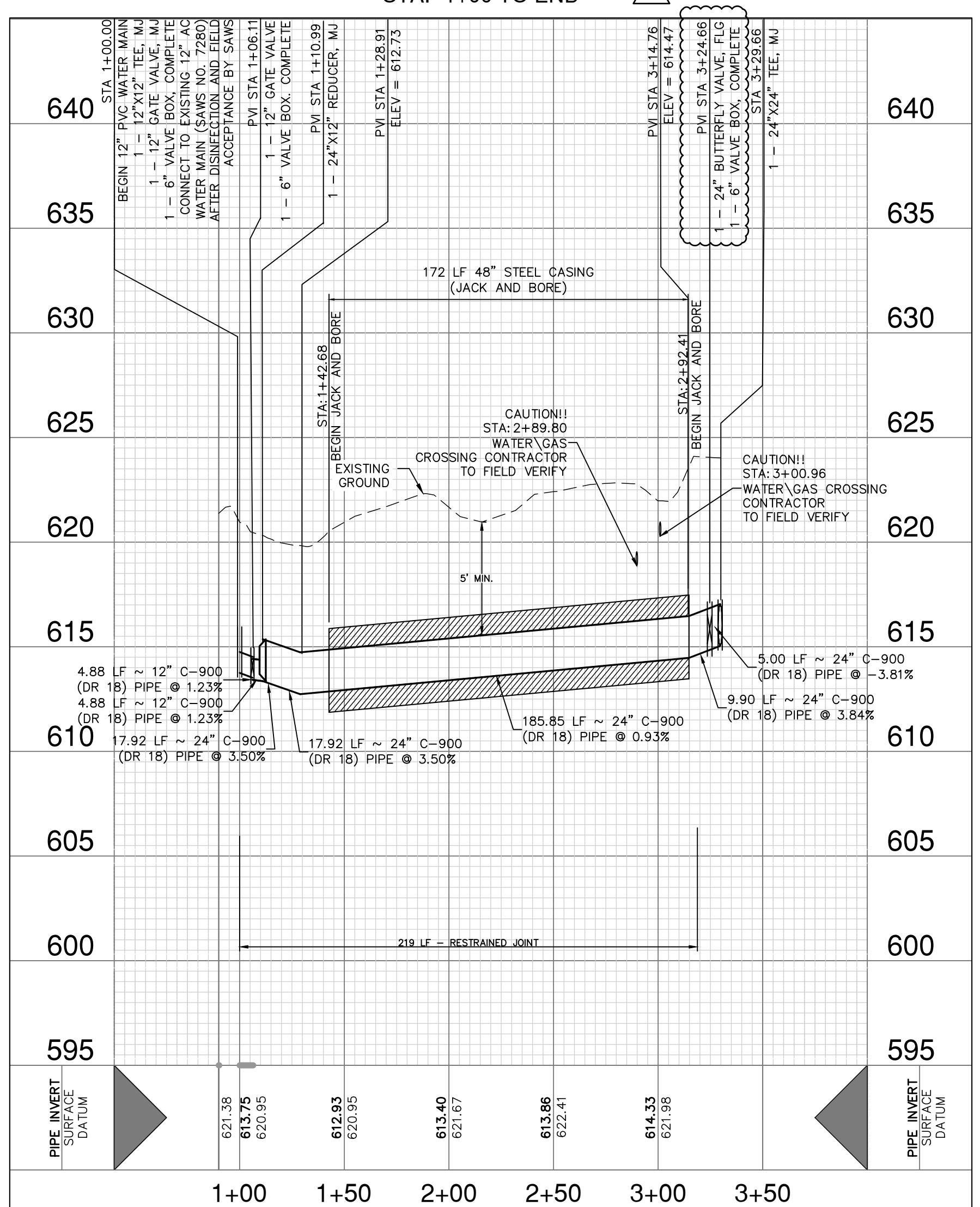
24" WATER MAIN
STA. 152+50 TO 154+00



VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



LINE "B"
STA. 1+00 TO END



LEGEND

- PROPOSED WATER MAIN
- EXISTING WATER MAIN
- PROPERTY LINE
- TEMPORARY CONSTRUCTION ESMT
- PERMANENT WATER ESMT
- STEEL CASING
- CONCRETE ENCASMENT

QUANTITY TABLE

ITEM	DESCRIPTION	UNIT	QTY
361	REPAIR OF CONCRETE PAVEMENT (FULL DEPTH) (TXDOT SPEC)	SY	76
507	FENCE 6' TYP	EA	1
508	REMOVE AND REPLACE EXISTING FENCE	LF	45
550	TRENCH EXCAVATION PROTECTION	LF	326
818	12-INCH PVC C-900 (DR 18) PIPE	LF	11
818	24-INCH PVC C-900 (DR 18) PIPE	LF	347
828	12" GATE VALVE, MJ W/ 6" VALVE BOX COMPLETE	EA	2
828	24" BUTTERFLY VALVE, FLG W/ 6" VALVE BOX COMPLETE	EA	2
836	SOCKET IRON FITTINGS	TON	1.16
840	WATER IN-TIE TO EXISTING MAIN	EA	1
844	4" PERMANENT BLOW-OFF ASSEMBLY	EA	1
856.1	48" JACK AND BORE TUNNELING	LF	172
856.2	48" STEEL CASING	LF	172
856.3	24-INCH PVC C-900 (DR 18) CARRIER PIPE	LF	172

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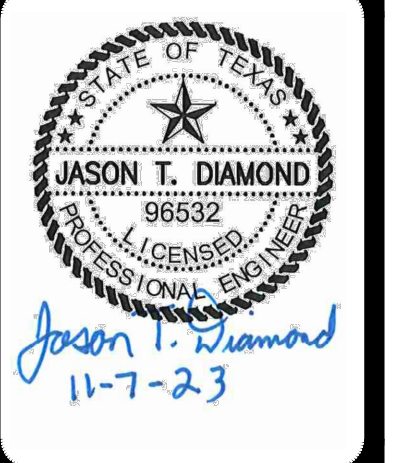
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**WATER: SAWS PRESSURE ZONE 828
LUENSMANN OFF-SITE WATER MAIN EXTENSION PHASE 1**

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Number of Lots N/A TOTAL EDU'S N/A SAWS JOB NO. 23-1043

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**LUENSMANN OFF-SITE WATER MAIN EXTENSION (PHASE 1)
BEXAR COUNTY, TEXAS
WATER MAIN PLAN AND PROFILE
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PLAT NO.	
JOB NO.	12473-09
DATE	MARCH 2023
DESIGNER	CD
CHECKED	MP DRAWN CD
SHEET	C3.14

Date: Nov 10, 2023, 4:13pm User: J. Robert Jones
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