



**Hidalgo County
Planning
Department**

T.J. Arredondo, CFM
Director of Planning

Main Office

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Edinburg, Texas 78542
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Engineering Projects Office

902 N. Doolittle Road
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Precinct No. 1 Substation

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Precinct No. 3 Substation

2401 N. Moorefield Road
Mission, Texas 78572
Phone (956) 205-7045
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**ASUD PROJECT:
WESTERN BOOSTER STATION
WATERLINE PROJECT**

PIPELINE AND UTILITY PERMIT APPLICATION PACKET

THE STATE OF TEXAS

COUNTY OF HIDALGO

PRECINCT 3

**APPLICATION AND AGREEMENT FOR PIPELINE OR
UTILITY PERMIT**

Date: 1/22/19

AGUA SPECIAL UTILITY DISTRICT (hereinafter referred to as "Applicant") does hereby make application to the Hidalgo County through the Hidalgo County Planning Department (hereinafter referred to as "HCPD") to construct, maintain and repair pipelines or utilities across the easements, right-of-ways, property or property interest as described below.

Information required:

1. Name, Address and Phone number of Applicant:

AGUA SPECIAL UTILITY DISTRICT (ASUD)

3120 N. ABRAM RD; PALMVIEW, TX 78572

2. Name, Address and Phone number of company or agency owning Pipeline or Utility (please indicate if same as Applicant):

(SAME)

3. Name, Address and Phone number of operator of Pipeline or Utility (please indicate if same as Applicant):

(SAME)

4. Name, Address and Phone number of contractor to install Pipeline or Utility:

(SAME)



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5. Is this a common carrier pipeline or utility? If yes, please submit the Applicant's Texas Railroad Commission Form "T-4" or similar form designating the facility:

N/A

6. Does Applicant have the Power of Eminent Domain?

N/A

7. Will the product be carried for hire or by the owner of the goods?

BY OWNER

8. Name and Legal description of property owner requesting utility services if applicable:

BLOCKS 9, 10, & 15 TEXAN GARDENS SUBD.

9. Type of utility work within county road right-of-way:

Bore Crossing Line Extension Along R.O.W. Other _____

10. Where is the origin of the line?

EAST SIDE OF TEXAN ROAD (WATER TOWER) APPROX. 2500'
SOUTH FROM MILE 7 N;

11. Where is the destination of the line?

S ALONG TEXAN RD TO MILE 5 N, AND EAST ALONG MILE 5,
APPROX. 1300' PASS WESTERN RD;



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- TEXAN RD STARTING POINT:
12. Utility Crossing Coordinate X:16642340.595'Y:1016449.738'
(NAD 83 Texas South FIPS 4205 feet)
TEXAN RD & MILE 5 N RD (PI):N:16634442.648'E:1015211.877'
MILE 5 N RD ENDING POINT:N:16633773.190'E:1019483.229'
13. Number and size of lines:
12" C-900 DR18 WATERLINES; 20" STEEL CASINGS BY BORE, AND 20" PVC CASINGS BY BORE AT ROAD, IRRIGATION, AND GAS CROSSINGS; SEE PLANS FOR DETAILS;
-
14. Pressure (each line):
~ 60 PSI
-
15. Content (each line):
POTABLE WATER
-
16. Estimated date of installation of Pipeline or Utility: 2/11/19
AS SOON AS THIS PERMIT GETS APPROVED!
-



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If requested permit is granted by HCPD, Applicant, in consideration thereof, agrees and binds itself as follows:

1. All pipelines or utilities herein will be horizontally placed within the right-of-way as determined by HCPD and at a minimum depth of five (5) feet below natural ground. Depth, horizontal, and vertical location shall be confirmed by HCPD Inspectors.
2. Location map, profile, and plans concerning the proposed pipeline or utility crossing will furnished with this application.
3. HCPD will be notified in writing ten days prior to the beginning date of construction under this permit.
4. Applicant will bear the entire expense of all future relocations of any pipelines or utilities should such relocation, at the sole discretion of the Hidalgo County Commissioners Court, be necessary for improvements, alteration, or maintenance of the Hidalgo County's easement or property of interest.
5. Applicant will notify the HCPD at least 48 hours prior to covering work and or completion of its work and removal of its equipment from the job site to permit HCPD to make an inspection.
6. Upon notification by the HCPD, the Applicant will promptly repair or rectify any deficiency or condition caused by the Applicant's operations or installations under this permit. Applicant will leave easement in as near the same condition or better, in the HCPD's sole judgment, as it existed prior to the commencement of the operations under this permit.
7. Hidalgo County shall not be liable or responsible for, and shall be saved and held harmless by Applicant, and further shall be indemnified by Applicant, from and against any and all suits, actions, losses, damages, claims, or liability of any character, type, or description, including all expenses of litigation, court costs, attorney's fees, and engineering fees for injury or death to any person, or injury to any property, received or sustained by any person or persons or property, arising out of, or occasioned by, directly or indirectly, the performance of Applicant under this agreement, including claims and damages arising in part from the negligence of the Hidalgo County.



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It is the expressed intent of the parties to this agreement that the indemnity provided for in this section is extended by Applicant to indemnity and protect Hidalgo County from the consequences of Hidalgo County's own negligence, whether that negligence is the sole or contributory cause of the resultant injury death, or damage.

Applicant further agrees to defend, at its own expense, with attorneys acceptable to Hidalgo County and on behalf of the Hidalgo County, and in the name of Hidalgo County, any claim or litigation brought against the Hidalgo County in connection with any such injury, death or damage.

Before construction is begun on such pipeline or utility crossings, Applicant will furnish to the HCPD a certificate of insurance (or other security approved by the HCPD) payable to Hidalgo County and protecting Hidalgo County (as an additional named insured) against any claims for personal injuries or damages to property resulting from the operations of Applicant, its agents, servants, employees, and contractors under this permit. Insurance is to be supplied in accordance with the attached Schedule A.

8. Hidalgo County makes no warranties, expressed or implied, in the granting of this permit; nor does Hidalgo County purport to grant any property interest or exclusive privileges whatsoever by granting such permit. It is specifically understood that Hidalgo County is not the agent for, nor does it act for, the fee owners or any persons or entities having any right, or title to possession of the land upon which the Hidalgo County's easement or other property interest is located. Furthermore, in granting this permit Hidalgo County makes no representation or warranty that it has any property interest, including, but not limited to, an easement or right of way, in the land

upon which Applicant constructs, maintains, repairs, or modifies the pipelines or utilities, made the subject of this application, nor does Hidalgo County make any representation or warranty as to the validity, quality or extent of such property interest, if any. Applicant acknowledges its understanding that Hidalgo County in granting this permit, does not convey or grant to Applicant any rights, title or interest for which is has no legal authority to grant or convey.

9. Applicant binds itself to comply with all federal, state, and local laws or regulations and will obtain all necessary permits from all local and federal agencies required by law before installation or construction is begun.



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10. Applicant will install its pipelines and utilities in a manner and location as shown in the plans and specifications filed with HCPD in support of this application for permit. Hidalgo County Planning Department's representative may at any time make such inspection as such engineer or other representation may deem necessary to assure that the construction of the pipeline or utilities is in accordance with the plans and specifications submitted, and said engineer or representative shall have the right to temporarily suspend Applicant's work if necessary, while such inspection is being made. Should Applicant not install the pipelines or utilities in accordance with the terms and conditions of this permit, Applicant agrees that the Hidalgo County shall have the right to require, at Applicant's expense, the removal of the pipelines and utilities and its replacement in conformance to said plans and specifications and conditions of this permit. Hidalgo County may revoke this permit and suspend all work hereunder if it is determined by Hidalgo County that the pipelines or utilities are not being installed in accordance with such plans and specifications and conditions of this permit. The suspension or revocation of this permit shall not be a basis for a claim for damages against Hidalgo County.
11. Except in emergency situations where it is necessary to protect life and property, Applicant will not make any change, modification, or alteration in or to the pipelines or utilities without first securing a new or amended permit from Hidalgo County prior to the making of any such change. Applicant will maintain the pipelines or utilities hereby authorized in good and safe condition, and in accordance with plans, specifications, and this permit.
12. Applicant agrees to pay HCPD a permit fee to cover administrative costs in the amount of **\$500.00**, plus a reimbursement to HCPD for any necessary engineering fees which may be incurred for the study and processing of the Application. This fee will permit a single pipeline or utility to be within County right-of-way. Applicant further agrees to pay an additional fee of **\$500.00** for each additional line included in permit application at the same location; however, more than one location may be included in a single application.

Requests to lay additional line or lines, not included in an initial permit application, must be made by separate application, with new permit fees paid accordingly and support data provided.



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Permit fees may be waived where Applicant is a state, county, municipality, or a special political subdivision.

13. The Applicant is allowed one hundred twenty days (120) from the granting of the permit to start construction of the pipelines or utilities crossings. Once started, the Applicant is allowed ninety (90) days to complete all work under such permit. All construction must be completed within two hundred ten (210) days from the date of issuance of permit. Upon application, extension of the time periods set forth in this paragraph may be granted by the Hidalgo County Commissioners Court. Such applications for extension must be received by HCPD at least thirty days before the expiration of the two hundred ten (210) days period. A new permit fee, in accordance with Paragraph 12 hereof, will be charged for each extension granted.

Construction of any pipeline or utility crossing will not begin until written approval has been given by HCPD.

14. All provisions of the Pipeline and Utility Permit Administration Policy of Hidalgo County, if any, and all amendments thereto, are hereby incorporated herein as part of the terms and conditions of this permit for all purposes.
15. Applicant warrants and represents that it has secured from all fee owners of the involved property an easement or other property rights to construct, repair or modify the pipeline or utility in the manner set forth herein.
16. This Pipeline and Utility Permit if granted by Hidalgo County is subject to any and all other requirements, specifications and conditions listed in Exhibit A attached hereto.
17. Hidalgo County requires all coordinates of all utility crossings. Horizontal datum to be in NAD 83 State Plane Texas South 4205 feet and vertical datum in NAVD 88 Geoid 12a.



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DATED this 22nd day of January, 2019.

JOSE E. "EDDIE" SAENZ, P.E.

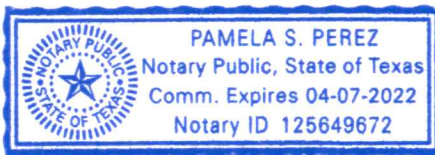
(Name of Applicant - Printed or Typed)

By: [Signature]
Signature

Title: GENERAL MANAGER
AGUA SPECIAL UTILITY DISTRICT (ASUD)

STATE OF TEXAS
COUNTY OF HIDALGO

SUBSCRIBED AND SWORN TO before me the Applicant,
Jose E. "Eddie" Saenz, on this 22 day of January, 2019,
to which witness my hand and seal of office.



[Signature]
Notary Public for the State of Texas

My Commission Expires: 4-7-22



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**APPROVAL OF APPLICATION BY
HIDALGO COUNTY PLANNING DEPARTMENT**

Came on for consideration this _____ day of _____,
20____. The above and foregoing Application for Pipeline and Utility
Permit, and after consideration of the same by the Hidalgo County
Commissioners Court, said Application and Agreement for Pipeline or
Utility Permit is hereby APPROVED.

HIDALGO COUNTY:

Richard F. Cortez, County Judge



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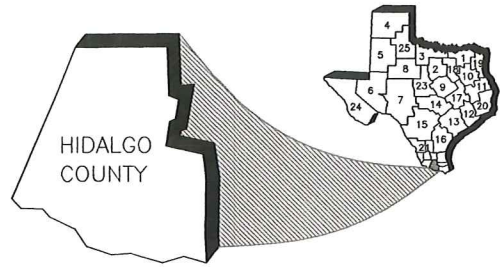
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EXHIBIT A

(Please insert description of project location and supporting documents for proposed utility work)

SET OF CONSTRUCTION PLANS ATTACHED



**WESTERN BOOSTER STATION
WATERLINE PROJECT**

MISSION, TEXAS

AGUA SPECIAL UTILITY DISTRICT BOARD

President	Rogelio Hernandez III
Vice-President	Cesar Rodriguez Jr.
Board Secretary	Esequiel "Zeke" Ortiz Jr
Board Treasurer	Lloyd A. Loya
Board Director	Ivan Sandoval
Board Director	Adolfo Arriaga
Board Director	Homero Tijerina
General Manager	Jose E. "Eddie" Saenz, P.E.



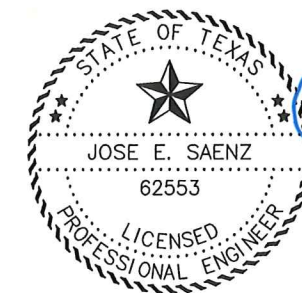
LOCATION MAP
(NOT TO SCALE)

INDEX OF SHEETS

01	COVER PAGE
02	GENERAL NOTES
03	ESTIMATED QUANTITIES
04	PROJECT & BM INDEX MAP
05-18	TEXAN RD PLAN & PROFILES (STA: 0+40 TO 80+67)
19-27	MILE 5 RD PLAN & PROFILES (STA: 0+00 TO 46+04)
28-29	TYPICAL WATER SYSTEM DETAILS
30-34	TRAFFIC CONTROL PLANS (TCP)

C S J GROUP
ENGINEERS • CONSULTANTS • MANAGERS

825 E. ALBERTA RD. | EDINBURG TX 78539
956.239.2984 | eddiesaenz95@gmail.com
FIRM REGISTRATION # F-17262 (TEXAS)



Jose E. Saenz
DATE: 01/09/19

GENERAL CONSTRUCTION NOTES:

- ALL INSTALLATION OF WATERLINES, VALVES, METERS, AND FITTINGS SHALL BE IN CONFORMANCE WITH THE AGUA SPECIAL UTILITY DISTRICT STANDARDS MANUAL, LATEST REVISION.
- THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING TYPE AND LOCATION OF UNDERGROUND UTILITIES AND ELECTRICAL UTILITIES IS NOT GUARANTEED TO BE EXACT OR COMPLETE. THE LOCATIONS AND SIZES HAVE BEEN TAKEN FROM EXISTING RECORDS AND THE BEST AS-BUILT INFORMATION AVAILABLE. HOWEVER, IT IS EXPECTED THAT THERE MAY BE SOME DISCREPANCIES AND OMISSIONS IN THE LOCATIONS, QUALITIES AND SIZES SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT TYPE, SIZE AND LOCATION OF ALL UTILITIES AFFECTED BY THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL ARRANGE FOR THE REPAIR AND RESTORATION OF CONTRACTOR DAMAGED UTILITIES. THE COST OF ANY REPAIR OR REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE CURRENT LINE SPOTTING TOLL FREE NUMBER AND COORDINATE WITH ALL THE UTILITY COMPANIES FOR ACTUAL LOCATING AND UNCOVERING OF EXISTING LINE PRIOR TO EXCAVATION OPERATIONS.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER OF ANY UNREPORTED OBSTACLES THAT MAY IMPEDE OR PREVENT THE PROPER CONSTRUCTION OF THIS PROJECT.
- ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE APPLICABLE STATE STATUTES AND THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS (OSHA). COPIES OF THE O.S.H.A. STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT.
- THE CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A SAFE, NEAT, AND WORKMAN LIKE MANNER AT ALL TIMES. JOB SAFETY SHALL NOT BE COMPROMISED. ANY UNSAFE OR UNATTRACTIVE NUISANCE SHALL BE REMOVED OR OTHERWISE TAKEN CARE OF BY THE CONTRACTOR WHEN DIRECTED BY THE OWNER OR PROJECT ENGINEER.
- EXCAVATIONS, TRENCHES AND OTHER HAZARDOUS AREAS SHALL BE ADEQUATELY PROTECTED BY BARRICADES, FENCING, LIGHTS AND/OR OTHER PROTECTIVE DEVICES AT ALL TIMES.
- CONSTRUCTION OF THIS PROJECT WILL BE SUBJECT TO INSPECTIONS AND TESTING AS DEEMED NECESSARY OR APPROPRIATE BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH INCIDENTAL LABOR AND EQUIPMENT TO ALLOW THE TESTING PERSONNEL ACCESS TO THE WORK SITE AND WILL COOPERATE FULLY WITH THE PERSONS CONDUCTING THE TESTING AND INSPECTION PROGRAM.
- A PART OF THE WORK THAT IS NECESSARY OR REQUIRED TO MAKE EACH SYSTEM OR INSTALLATION SATISFACTORY AND OPERABLE FOR ITS INTENDED PURPOSE. EVEN THOUGH IT IS NOT SPECIFICALLY INCLUDED IN THE SPECIFICATIONS OR DRAWINGS, SHALL BE PERFORMED AS INCIDENTAL WORK AS IF IT WERE DESCRIBED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS.
- THE DRAWINGS DO NOT ALWAYS INDICATE ALL VERTICAL BENDS AND TRANSITIONS. WHEN NECESSARY, MAKE VERTICAL TRANSITIONS BY A DEFLECTION AT THE JOINTS OR THE INSTALLATION OF FITTINGS. DO NOT DEFLECT PIPE JOINTS MORE THAN 80% OF THE MANUFACTURERS RECOMMENDATION.
- ALL UNDERGROUND PIPING MUST BE INSTALLED WITH A MINIMUM OF 36-INCHES OF COVER UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL EXCAVATION FOR THIS PROJECT SHALL BE UNCLASSIFIED.
- THERE WILL BE NO BLASTING ALLOWED ON THIS PROJECT.
- ALL PIPES, VALVES, FITTINGS AND OTHER APPURTENANCES SHALL BE RATED FOR 150 PSI, UNLESS OTHERWISE NOTED.
- ALL DUCTILE IRON PIPE SHALL BE CLASS 200, UNLESS OTHERWISE NOTED. ALL ABOVE GROUND DUCTILE IRON PIPE SHALL HAVE ANSI CLASS 125 FLANGED JOINTS AND ALL UNDERGROUND DUCTILE IRON PIPE SHALL HAVE PUSH-ON OR MECHANICAL JOINTS WITH APPROPRIATE RESTRAINTS.
- ALL TREES TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION WITH THE USE OF PROTECTIVE BARRIERS INSTALLED BY THE CONTRACTOR, AT THE DRIP LINE OF EACH TREE.
- ANY SAFETY DEVICES, WARNING LIGHTS, CONTROLS, ALARMS OR OTHER DEVICES SHOWN ON ANY PLANS OR CALLED FOR BY ANY SECTION OF THE SPECIFICATIONS SHALL BE MADE OPERABLE. THE CONTRACTOR SHALL SUPPLY ALL CONDUIT, WIRING, SWITCHES, SENSORS, OR ANY OTHER MATERIALS NECESSARY TO CONNECT THE DEVICE AND MAKE IT OPERABLE.
- ALL UTILITIES WHICH ARE TO REMAIN AND WHICH ARE DAMAGED OR REMOVED WILL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL UNDERGROUND PIPE SHALL BE BACK FILLED WITH JOINTS EXPOSED FOR TESTING, BEFORE NEW JOINTS ARE COVERED. PRESSURE LINES ARE TO BE HYDROSTATICALLY TESTED AT NOT LESS THAN 150 PSI FOR A PERIOD OF TWO (2) HOURS. THE OWNER SHALL OBSERVE AND APPROVE OR REJECT THE TEST. REPAIRS, IF REQUIRED, SHALL BE MADE AND THE LINE SHALL BE RETESTED UNTIL APPROVED. TEST SHALL NOT BEGIN UNTIL CONCRETE THRUST BLOCKS HAVE AGED A MINIMUM OF 24 HOURS.
- THESE NOTES ARE INTENDED TO SUPPLEMENT THE TECHNICAL SPECIFICATIONS AND SHOULD NOT BE CONSIDERED A SUBSTITUTE FOR THE DETAILED REQUIREMENTS SET FORTH IN THE SPECIFICATIONS. WHERE THERE IS A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN.
- AS SOON AS PRACTICAL, ALL PORTIONS OF EXCAVATIONS NOT OCCUPIED BY A PERMANENT STRUCTURE SHALL BE BACKFILLED.

- AREAS USED FOR THE CONTRACTOR'S JOB TRAILER, PERSONNEL PARKING, MATERIAL STORAGE, SPOILS STOCKPILE, MATERIAL FABRICATION AND RELATED CONSTRUCTION USES MUST BE APPROVED BY THE PROJECT ENGINEER.
- WHERE THE WATER TRANSFER LINE INSTALLATION INTERSECTS SANITARY SEWER SYSTEM MAINS AT LESS THAN 9.0 FEET SEPARATION, THE CONTRACTOR SHALL INSTALL A 20 FOOT SECTION OF C-900 PVC PRESSURE PIPE CENTERED ON THE POINT OF INTERSECTION.
- CONTRACTOR SHALL REMOVE AND REINSTALL ALL SIGNS, MAILBOXES, FENCES, CULVERTS AND OTHER ITEMS IN WAY OF THE WORK.
- CONTRACTOR SHALL REPAIR AND RESTORE ALL PAVED AREAS AFFECTED BY OPEN CUTS, TO A BETTER STATE THAN PRE-CONSTRUCTION CONDITIONS, WITH LIKE MATERIALS.
- PROVIDE INTERIM DRAINAGE DURING CONSTRUCTION AS REQUIRED. USE PUMPS, TEMPORARY DITCHES, ETC. TO MAINTAIN A WELL DRAINED SITE FREE OF STANDING WATER AND WATER SOFTENED SOILS.
- MAINTAIN COVER BELOW DITCHES AND SURFACE DEPRESSIONS. PRESSURE UTILITIES MAY BE LAID APPROXIMATELY PARALLEL TO GRADE, UNLESS OTHERWISE INDICATED, WITH LOCAL DEEPENING TO AVOID OTHER UTILITIES OR OBSTRUCTIONS. PROVIDE PROTECTION WHERE COVER IS TEMPORARILY REDUCED.
- ANCHOR ALL UNDERGROUND PRESSURE PIPING AS NECESSARY TO PREVENT MOVEMENT UNDER PRESSURE TEST AND SERVICES.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM SPECIFICATION A-165, GRADE 60. ALL BARS SHALL CONFORM TO ASTM SPECIFICATION A-305.
- ALL CONCRETE AND FORM WORK SHALL CONFORM TO CURRENT ACI CODE REQUIREMENTS.

EROSION CONTROL NOTES:

- THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIRE EROSION AND SEDIMENTATION CONTROL FOR CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL REQUIRED EROSION AND SEDIMENTATION CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN.
- AT A MINIMUM THESE CONTROLS SHALL CONSIST OF ROCK BERMS AND/OR SILT FENCES CONSTRUCTED PARALLEL TO AND DOWN GRADIENT FROM THE TRENCHES. THE ROCK BERM OR SILT FENCES SHALL BE INSTALLED IN A MANNER SUCH THAT ANY RAINFALL RUNOFF SHALL BE FILTERED. HAY BALES SHALL NOT BE USED FOR TEMPORARY EROSION AND SEDIMENTATION CONTROLS.
- ALL SLOPES SHALL BE SODDED OR SEEDED WITH APPROVED GRASS, GRASS MIXTURES OR GROUND COVER SUITABLE TO THE AREA AND SEASON IN WHICH THEY ARE APPLIED.
- THE CONTRACTOR SHALL INSPECT THE CONTROLS AT WEEKLY INTERVALS AND AFTER EVERY SIGNIFICANT RAINFALL TO INSURE DISTURBANCE TO THE STRUCTURES HAS NOT OCCURRED. SEDIMENT DEPOSITED AFTER A RAINFALL SHALL BE REMOVED FROM THE SITE OR PLACED IN AN APPROVED DESIGNATED SOIL DISPOSAL AREA.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE EMPLOYED DURING CONSTRUCTION TO PREVENT POINT SOURCE SEDIMENTATION LOADINGS OF DOWNSTREAM FACILITIES. SUCH INSTALLATIONS SHALL BE REGULARLY INSPECTED BY THE CONTRACTOR FOR EFFECTIVENESS. ADDITIONAL MEASURES MAY BE REQUIRED IF, IN THE OPINION OF THE OWNER, THEY ARE WARRANTED.
- ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE IMPLEMENTED BEFORE CONSTRUCTION COMMENCES, SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL BE REMOVED WHEN VEGETATION IS ESTABLISHED AND THE CONSTRUCTION AREA IS STABILIZED. ADDITIONAL PROTECTION MAY BE NECESSARY IF EXCESSIVE SOLIDS ARE BEING DISCHARGED FROM THE SITE.
- ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE REMOVED BY THE CONTRACTOR AT FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER.
- ALL STAGING, MATERIAL STORAGE, STOCKPILE AND REFUSE AREAS SHALL REQUIRE APPLICABLE EROSION AND SEDIMENT CONTROL MEASURES.
- ALL CONSTRUCTION DEBRIS SHALL BE CONTAINED WITHIN APPROPRIATE RECEPTACLES (ROLL-OFF CONTAINERS, DUMPSTERS, TRASH CANS, WIRE-MESH CAGES, ETC.) AND CONFINED WITHIN PERIMETER EROSION AND SEDIMENT CONTROLS.
- THE CONTRACTOR MAY REFER TO THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES (2004 EDITION) ITEM 164, "SEEDING FOR EROSION CONTROL" AND ITEM 168, "VEGETATIVE WATERING" FOR VEGETATIVE STABILIZATION SPECIFICATIONS.
- DUST CONTROL SHALL BE IMPLEMENTED AS NECESSARY OR AS DIRECTED BY THE ENGINEER. DUST CONTROL MAY CONSIST OF WATERING OR OTHER METHODS APPROVED BY THE PROJECT ENGINEER.
- ALL DISCHARGES ASSOCIATED WITH DEWATERING OPERATIONS SHALL IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES. MEASURES MAY INCLUDE BUT ARE NOT LIMITED TO SEDIMENTATION BASINS OR FILTER SOCKS.
- CONCRETE WASH-WATER SHALL NOT BE DISCHARGED DIRECTLY INTO A STORM SEWER SYSTEM OR RECEIVING STREAM. ALL WASH ACTIVITIES MUST BE PERFORMED WITHIN THE EXTENTS OF ESTABLISHED EROSION AND SEDIMENT CONTROL MEASURES OR DESIGNATED AREAS APPROVED BY PROJECT ENGINEER.
- SEDIMENT SHALL BE CLEARED FROM ALL STORM SEWER PIPES, CULVERTS AND APPURTENANCES WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO FINAL PROJECT ACCEPTANCE. SEDIMENT SHALL BE PROPERLY DISPOSED.

TRENCH SAFETY:

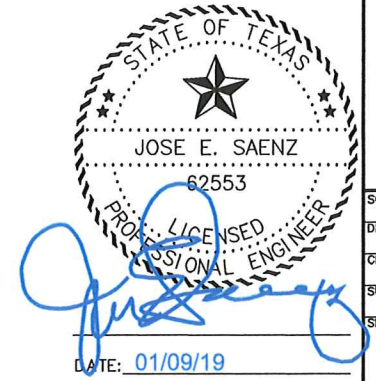
- IN ACCORDANCE WITH HOUSE BILLS 662 AND 665 ENACTED BY THE TEXAS LEGISLATURE (70TH REGULAR LEGISLATIVE SESSION), THE CONTRACTOR SHALL MEET THE REQUIREMENTS FOR TRENCH SAFETY AS OUTLINED IN THE CURRENT VERSION OF THE UNITED STATES DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS. 29 CFR. PART 1926, SUBPART P- EXCAVATIONS.
- PRIOR TO COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL PROVIDE A TRENCH SAFETY PLAN ALL PLANS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS. THE PLAN SHALL BE SUBMITTED TO THE PROJECT ENGINEER.
- IN THE EVENT CONDITIONS ENCOUNTERED IN THE FIELD REQUIRE TRENCH SAFETY SYSTEMS OUTSIDE OF THE EXTENTS SUGGESTED TRENCH PROTECTION SHOWN ON THE CONSTRUCTION PLANS, ALL EXCAVATION SHALL CEASE AND THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A REVISED TRENCH SAFETY PLAN. NO EXCAVATION SHALL RESUME UNTIL THE REVISED TRENCH SAFETY PLAN HAS BEEN APPROVED.
- THE CONTRACTOR SHALL ENSURE APPROVED TRENCH SAFETY PLANS ARE IMPLEMENTED. FAILURE TO ADHERE TO THE TRENCH SAFETY PLAN WILL RESULT IN A STOP WORK ORDER. NONCOMPLIANCE INCIDENTS MAY BE REPORTED TO OSHA.
- TRENCHES OR EXCAVATIONS MAY NOT BE LEFT OPEN OVERNIGHT UNLESS AUTHORIZED IN WRITING BY THE PROJECT ENGINEER. IN CASES WHERE TRENCHES ARE LEFT OPEN, THE CONTRACTOR MUST PROVIDE TRAFFIC RATED, ANCHORED STEEL PLATE COVERS APPROVED BY THE ENGINEER.

UTILITIES COORDINATION NOTES:

- ONLY UTILITIES FOR WHICH INFORMATION WAS AVAILABLE ARE SHOWN. LOCATIONS AND ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL CALL THE TEXAS 811 NUMBER (1-800-344-8377) FOR VERIFICATION OF ALL UTILITY LOCATIONS BEFORE ANY CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY ALL GAS COMPANIES AND GIVE A 48-HOUR NOTICE PRIOR TO ANY EXCAVATION WITHIN TWENTY FEET OF GAS LINES. ALL GAS LINES SHALL BE VACUUM EXCAVATED USING A VAC-TRON DEVICE. IN NO CASE SHALL THE CONTRACTOR RESUME EXCAVATION AROUND GAS LINES WITHOUT THE GAS COMPANY'S REPRESENTATIVE PRESENT ON-SITE.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL NOTIFY AGUA SUD SUPERINTENDENT (956-585-2459) TO COORDINATE INSPECTION SERVICES AND TO FIELD VERIFY ALL EXISTING WATERLINES.
- ANY DAMAGE CAUSED TO EXISTING STRUCTURES AND/OR UTILITIES BY THE CONTRACTOR SHALL BE THE CONTRACTORS RESPONSIBILITY TO CORRECT AT HIS EXPENSE.
- ANY DAMAGE TO PROPERTY, OUTSIDE THE CONSTRUCTION ZONE, CAUSED BY THE CONTRACTOR, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CORRECT AT HIS EXPENSE.

SEQUENCE OF CONSTRUCTION:

- BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRE-CONSTRUCTION MEETING MUST BE HELD BETWEEN THE AGUA SPECIAL UTILITY DISTRICT (AGUA SUD), TXDOT, CONTRACTOR'S REPRESENTATIVE, AND THE ENGINEER.
- VERIFY VERTICAL AND HORIZONTAL LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES. CONTACT ALL UTILITY COMPANIES THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION.
- MAINTAIN EXISTING UTILITY SERVICES TO REMAIN DURING CONSTRUCTION.
- VERIFY GRADES PRIOR TO CONSTRUCTION, FLAG CLEARING LIMITS.
- INSTALL TEMPORARY TRAFFIC CONTROLS.
- INSTALL EROSION CONTROL MEASURES, SILT FENCE, AND INLET PROTECTION (IF REQUIRED / APPLICABLE).
- BEGIN DEMOLITION ACTIVITIES, REMOVE OR ABANDONED IN-PLACE EXISTING UTILITIES IN ACCORDANCE WITH AGUA SUD REQUIREMENTS.
- CLEAR AND GRUB AREAS OF THE SITE TO BE ROUGH GRADED OR FILLED.
- GRADE AND PLACE ACCEPTABLE FILL AS REQUIRED AND COMPACT FILL AREAS PER THESE PLANS, UNLESS OTHERWISE DETERMINED BY A GEO-TECH ENGINEER.
- COMPLETE STABILIZATION IN ACCORDANCE WITH PLANS AND GEO-TECH REPORT (IF AVAILABLE).
- REMOVE EXCESS EXCAVATED MATERIALS, TRASH, DEBRIS, AND WASTE MATERIALS; DISPOSE IN AN AUTHORIZED LOCATION AT NO COST TO THE OWNER. EXCESS FILL DIRT TO BE RELOCATED AS DIRECTED BY THE OWNER.
- MAINTAIN TEMPORARY EROSION CONTROL FACILITIES UNTIL SITE IS COMPLETELY STABILIZED. REMOVE EROSION CONTROL MEASURES WHEN SITE IS STABILIZED AT THE COMPLETION OF THE PROJECT.



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 FIRM REGISTRATION # F-17262 (TEXAS)

GENERAL NOTES
 AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS

SCALE: NOT TO SCALE
 DRAWN BY: LALO CHAPA
 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET: 2

DATE: 01/09/19

LEGEND	
○	SET 1/2 INCH IRON ROD
●	FOUND 1/2 INCH IRON ROD
⊕	SET NAIL / BENCHMARK
⊗	FOUND 60-D NAIL
▲	FOUND CPS
⊙	SERVICE POLE
⊛	LIGHT POLE
⊖	POWER POLE
⊕	GUY WIRE
⊞	ELECTRICAL BOX
⊟	HIGH VOLTAGE UNDERGROUND BOX
⊠	WATER MAIN BOX
⊡	WATER METER
⊢	WATER VALVE
⊣	FIRE HYDRANT
⊤	FLUSH VALVE
⊥	SPRINKLER MAIN BOX
⊦	SPRINKLER HEAD
⊧	IRRIGATION STAND PIPE
⊨	IRRIGATION GATE VALVE
⊩	IRRIGATION VENT PIPE
⊪	STORM TYPE A INLET
⊫	STORM TYPE C GRATED INLET
⊬	STORM TYPE CC GRATED INLET
⊭	STORM DRAIN MANHOLE
⊮	STORM DRAIN JUNCTION BOX
⊯	STORM DRAIN HEADWALL
⊰	PVC PIPE
⊱	GUTTER SPOUT
⊲	SANITARY SEWER MANHOLE
⊳	SANITARY SEWER CLEANOUT
⊴	PALM TREE
⊵	TREE
⊶	PLANT
⊷	TELEPHONE PEDESTAL
⊸	GAS MARKER
⊹	SIGN
⊺	GUARD POST
⊻	MAILBOX

ADDITIONAL GENERAL CONSTRUCTION NOTES:

1. INLINE VALVES ON EXISTING LINES BEING ABANDONED SHALL BE CLOSED WATERTIGHT, PLUGGED, THRUST BLOCKED, AND THE OPERATING NUT ON SAID VALVE BE CUT OFF. ALL VALVE BOXES ON ABANDONED LINES SHALL BE REMOVED, EXCEPT THOSE IN PAVED AREAS. THOSE LOCATED IN PAVED AREAS SHALL BE POURED FULL OF CONCRETE AND THE CAP SHALL BE PERMANENTLY REMOVED. CONTRACTOR TO NOTIFY THE ENGINEER WHEN ANY VALVE ON A LINE BEING ABANDONED FAILS TO FULLY CLOSE OR IS NOT FULLY OPERATIONAL. ALL EXISTING LINES TO BE ABANDONED TO BE COMPLETELY SEVERED FROM NEW SYSTEM.
2. CONTRACTOR MAY DEFLECT WATERLINES SLIGHTLY TO AVOID CONFLICTS WITH UTILITIES OR OTHER OBSTRUCTION. THE AGUA SUD MUST BE CONTACTED FOR APPROVAL AT LEAST 24-HOURS IN ADVANCE OF ANY DECISION TO DEFLECT WATERLINES. CONTRACTOR TO KEEP ACCURATE RECORDS OF LOCATIONS WHERE WATERLINES ARE DEFLECTED FOR REQUIRED REDLINE RECORD PRINT SET.
3. CONTRACTOR IS TO INSTALL TEMPORARY BLOW-OFF VALVES AS REQUIRED TO FLUSH THE NEWLY CONSTRUCTED WATERLINE FOR CHLORINATION AND TESTING. TEMPORARY BLOW-OFF VALVES SHALL BE REMOVED BY THE CONTRACTOR PROMPTLY UPON SUCCESSFUL COMPLETION OF ALL TESTING.
4. CONTRACTOR TO ALLOW 6-INCH MINIMUM CLEARANCE BETWEEN PROPOSED WATERLINES AND OTHER FACILITIES UNLESS OTHERWISE NOTED.
5. CONTRACTOR TO MAINTAIN 9-FOOT MINIMUM CLEARANCE IN ALL DIRECTIONS BETWEEN PROPOSED WATERLINES AND SANITARY SEWER, FORCE MAINS, AND SANITARY MANHOLES UNLESS OTHERWISE NOTED. WHERE THIS CANNOT BE ACHIEVED, PROVIDE CLEARANCE AS REQUIRED BY THE TCEQ RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS, (LATEST REVISION).
6. CONTRACTOR SHALL MAINTAIN A 2-FOOT ABSOLUTE MINIMUM CLEARANCE (OUT-TO-OUT) OF PIPES WHERE THE PROPOSED WATERLINE CROSSES OVER SANITARY SEWER. CONTRACTOR SHALL MAINTAIN A 9-FOOT ABSOLUTE MINIMUM CLEARANCE (OUT-TO-OUT) OF PIPES WHERE THE PROPOSED WATERLINE MUST CROSS UNDER A SANITARY SEWER. OTHERWISE INSTALL PROPOSED WATERLINE IN 20-FOOT JOINT OF STEEL CASING PIPE CENTERED ON SEWER. WHERE PROPOSED SEWER IS PARALLEL TO WATERLINES, MAINTAIN 2-FOOT VERTICAL AND 4-FOOT HORIZONTAL CLEARANCES.

TOPO/ELEVATIONS	
× ^{50.00} _{NG}	NATURAL GROUND
× ^{50.00} _C	TOP OF CONCRETE
× ^{50.00} _{CRB}	TOP OF CONCRETE CURB
× ^{50.00} _{TOA}	TOP OF ASPHALT
× ^{50.00} _{EOP}	TOP EDGE OF PAVEMENT
× ^{50.00} _{RSD}	ROAD SIDE DITCH FLOWLINE (FL)
× ^{50.00} _{DTT}	DITCH TOP
× ^{50.00} _{FL}	FLOW LINE
× ^{50.00} _{ST}	SWALE TOP
× ^{50.00} _{SB}	SWALE BOTTOM
× ^{50.00} _{CA}	TOP OF CALICHE

LEGEND	
— W —	WATER PIPE
— S —	SANITARY SEWER PIPE
— SD —	STORM DRAIN PIPE
— IRR —	IRRIGATION PIPE
— TEL —	TELEPHONE LINE
— FO —	FIBER OPTIC CABLE
— GAS —	GAS LINE
— OHE —	OVERHEAD ELECTRICAL LINE
— X —	CHAINLINK FENCE
— ○ —	HOG-WIRE FENCE
— □ —	WOOD FENCE

ABBREVIATIONS	
BLD	BUILDING
C	CONCRETE
CBP	CORRUGATED BLACK PIPE
COR	CORNER
CRB	CURB
CY	CUBIC YARD
EA	EACH
EL	ELEVATION
ELEC PED	ELECTRICAL PEDESTAL
FF	FINISH FLOOR
FH	FIRE HYDRANT
FL	FLOW LINE
GU	GUTTER
LF	LINEAR FEET
LP	LIGHT POLE
MH	MAN HOLE
NG	NATURAL GROUND
NS	NAIL SET
SF	SQUARE FEET
SI	STORM INLET
SIG	STORM INLET GRATED
SPK	SPRINKLER
TRO	OAK TREE
WM	WATER METER
WV	WATER VALVE

UTILITY COMPANY:	CONTACT PERSON:	PHONE:
AGUA SPECIAL UTILITY DIST.	ASUD	RAMIRO SALINAS 956.240.3985 ALBERT ALONZO 956.240.7921
HIDALGO COUNTY PCT. 3 RIGHT-OF-WAY DEPT.	HCROW	VICTOR GALLARDO 956.867.5514
HIDALGO COUNTY IRRIGATION DIST. No. 16	HCID-16	JUAN MARTINEZ 956.585.4818
HIDALGO COUNTY DRAINAGE DIST. No. 1	HCDD-1	NOE SALDIVAR 956.292.7080
AMERICAN ELECTRIC POWER (TEXAS)	AEP	1.877.373.4858
MAGIC VALLEY ELECTRICAL COOP	MVEC	956.289.4000
HILCORP ENERGY Co. (GAS COMPANY)	HLE	OSCAR CAVAZOS 956.842.3780 361.543.6173 214.323.1545
EAGLE OIL & GAS Co.		956.207.9124
TEXAS GAS SERVICES	TGS	EDGAR GONZALEZ 956.342.3237 1.800.959.5325 956.412.5458
SPECTRUM (TIME WARNER CABLE)		RICK PUPEK 1.800.892.4357
ATT		LUCY SALINAS 956.630.8261



NOTE:
THE (HORIZONTAL AND/OR VERTICAL) LOCATION OF EXISTING UNDERGROUND UTILITIES AS ILLUSTRATED ON THESE PLANS IS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION IN THE AREA OF SAID UTILITIES. CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION/EXCAVATING IN THE AREA OF EXISTING UTILITIES

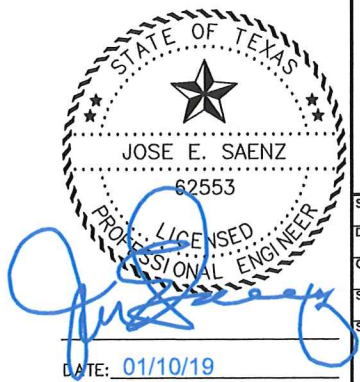
WESTERN BOOSTER STATION WATERLINE PROJECT			
ESTIMATED QUANTITIES			
ITEM #	DESCRIPTION	TOTAL	UNIT
		QUANTITY	
1	12" PVC WATER LINE (C-900, DR-18)	12651	LF
2	12" CROSS	2	EA
3	12" TEE	5	EA
4	12" GATE VALVE W/ASSYM. & 2'x2' CONCRETE COLLAR	16	EA
5	12" FL x MJ ADAPTORS	13	EA
6	12" CAP	5	EA
7	12" 90 DEG MJ ELBOW	2	EA
8	12" 45 DEG MJ ELBOW	54	EA
9	12" 11.25 DEG MJ ELBOW	4	EA
10	8" TEE	1	EA
11	12"x8" MJ REDUCER	1	EA
12	20" DIA STEEL CASING (BY BORE)	20	LF
13	20" DIA PVC CASING (BY BORE)	397	LF
14	2" GATE VALVE W/ASSYM. & 2'x2' CONCRETE COLLAR	6	EA
15	2" FLUSH VALVE ASSYM.	6	EA
16	1" AIR RELEASE VALVE ASSYM. WITH VAULT	13	EA
17	CONNECT TO EXISTING 12" WATERLINE	1	EA
18	CONNECT TO EXISTING 8" WATERLINE	1	EA
19	REMOVE & REPLACE CALICHE DRIVEWAY	180	SY
20	SAWCUT, REMOVE, & REPLACE ASPHALT DRIVEWAY	67	SY
21	TRAFFIC CONTROL	1	LS

ESTIMATED QUANTITIES NOTES:

1. THE REPAIR / RELOCATION OF ANY DAMAGED TRAFFIC CONTROL SIGNS, LANDSCAPED AREAS, FENCES, MAILBOXES, DRAINAGE CULVERT PIPES, DRIVEWAYS, ROAD PAVEMENT, ETC., SHALL BE CONSIDERED INCIDENTAL TO THE PRICE BID FOR WATERLINE.
2. TRENCH PROTECTION SHALL BE UTILIZED WHEN TRENCH EXCEEDS 5 FEET IN DEPTH, AND SHALL BE INCIDENTAL TO THE PRICE BID FOR WATERLINE.

GENERAL NOTES:

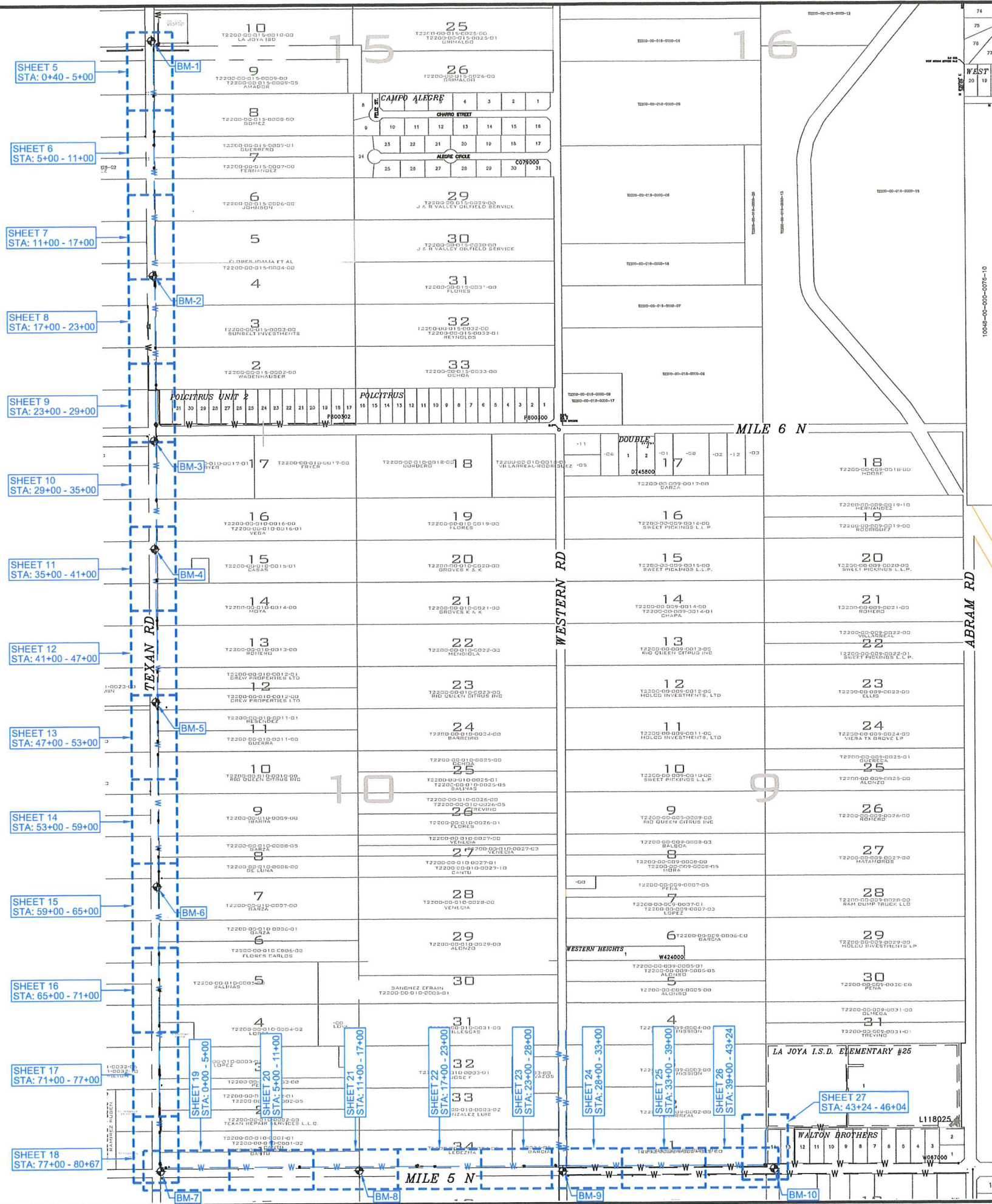
1. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED ON OBSERVATION OF ABOVE GROUND STRUCTURES, LINES SPOTTED BY THE OWNER, AND UTILITY SPOTTING. ACTUAL LOCATION OF THESE UTILITIES MAY VARY, AND ADDITIONAL BURIED UTILITIES MAY BE ENCOUNTERED UPON EXCAVATION.
2. BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL CALL FOR UTILITY SPOTTING BY THE APPROPRIATE AGENCY AND VERIFY THE LOCATION OF THESE UTILITIES TO HIS SATISFACTION. (1-800-DIG-TESS)
3. ANY DAMAGE CAUSED TO EXISTING STRUCTURES AND/OR UTILITIES BY THE CONTRACTOR SHALL BE THE CONTRACTORS RESPONSIBILITY TO CORRECT AT HIS EXPENSE.
4. ANY DAMAGE TO PROPERTY, OUTSIDE THE CONSTRUCTION ZONE, CAUSED BY THE CONTRACTOR, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CORRECT AT HIS EXPENSE.



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FIRM REGISTRATION # F-17262 (TEXAS)

GENERAL NOTES & ESTIMATED QUANTITIES
AGUA SUD
WESTERN BOOSTER STATION
WATERLINE PROJECT
MISSION, TEXAS

SCALE: NOT TO SCALE
DRAWN BY: LALO CHAPA
CHECKED BY: JOSE E. SAENZ
SURVEYED BY: JOSE M. GONZALEZ
SHEET: 3



BENCHMARK (BM) LIST			
No.	NORTHING	EASTING	ELEVATION
1	16642369.1300'	1016438.5160'	226.01
2	16640717.6900'	1016180.2710'	225.67
3	16639556.2400'	1015998.9020'	222.05
4	16638795.7000'	1015878.8040'	219.28
5	16637718.3000'	1015711.1280'	218.65
6	16636418.8300'	1015508.1170'	220.65
7	16634415.1000'	1015213.2690'	221.1
8	16634193.8000'	1016615.1660'	218.2
9	16633957.3400'	1018049.9600'	214.73
10	16633735.8100'	1019541.9550'	213.59



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PROJECT & BENCHMARK INDEX MAP
 AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS

SCALE: NOT TO SCALE
 DRAWN BY: LALO CHAPA
 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET: 4
 DATE: 01/09/19

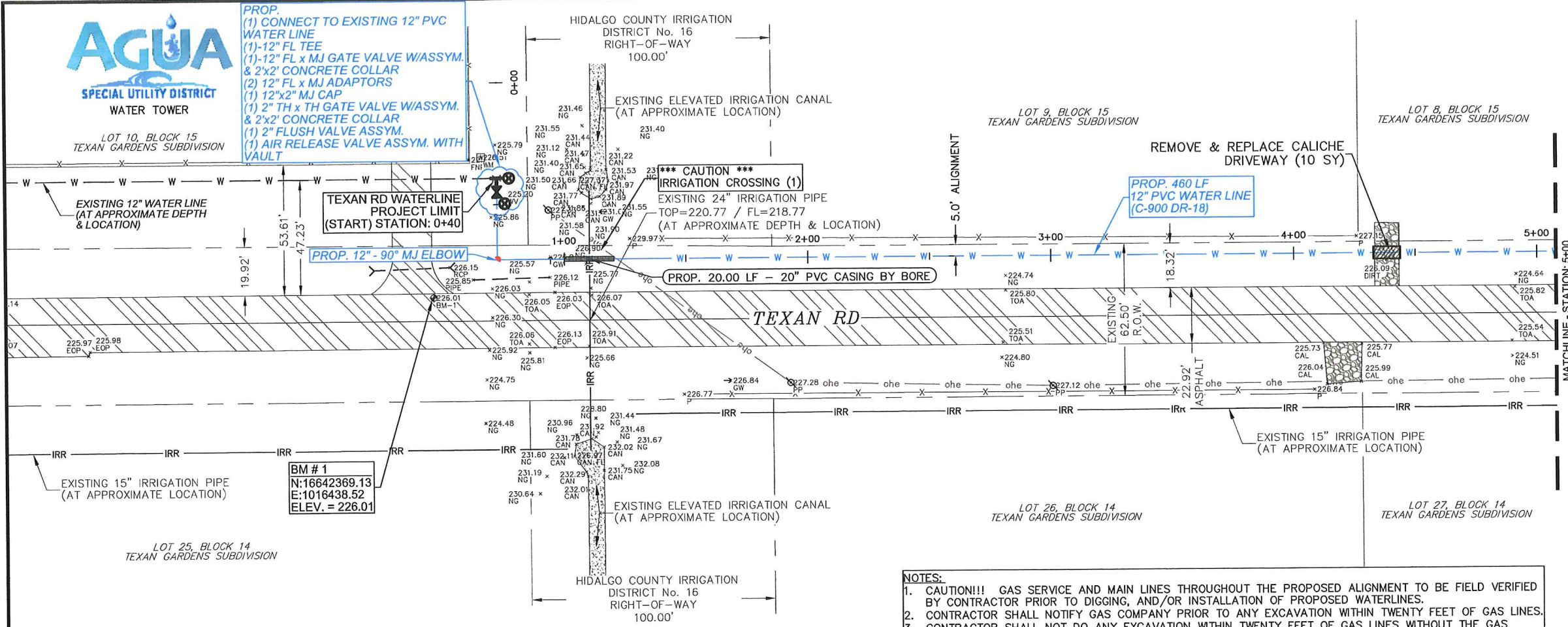


SPECIAL UTILITY DISTRICT

WATER TOWER

LOT 10, BLOCK 15
TEXAN GARDENS SUBDIVISION

PROP.
(1) CONNECT TO EXISTING 12" PVC
WATER LINE
(1)-12" FL TEE
(1)-12" FL x MJ GATE VALVE W/ASSYM.
& 2'x2' CONCRETE COLLAR
(2) 12" FL x MJ ADAPTORS
(1) 12"x2" MJ CAP
(1) 2" TH x TH GATE VALVE W/ASSYM.
& 2'x2' CONCRETE COLLAR
(1) 2" FLUSH VALVE ASSYM.
(1) AIR RELEASE VALVE ASSYM. WITH
VAULT



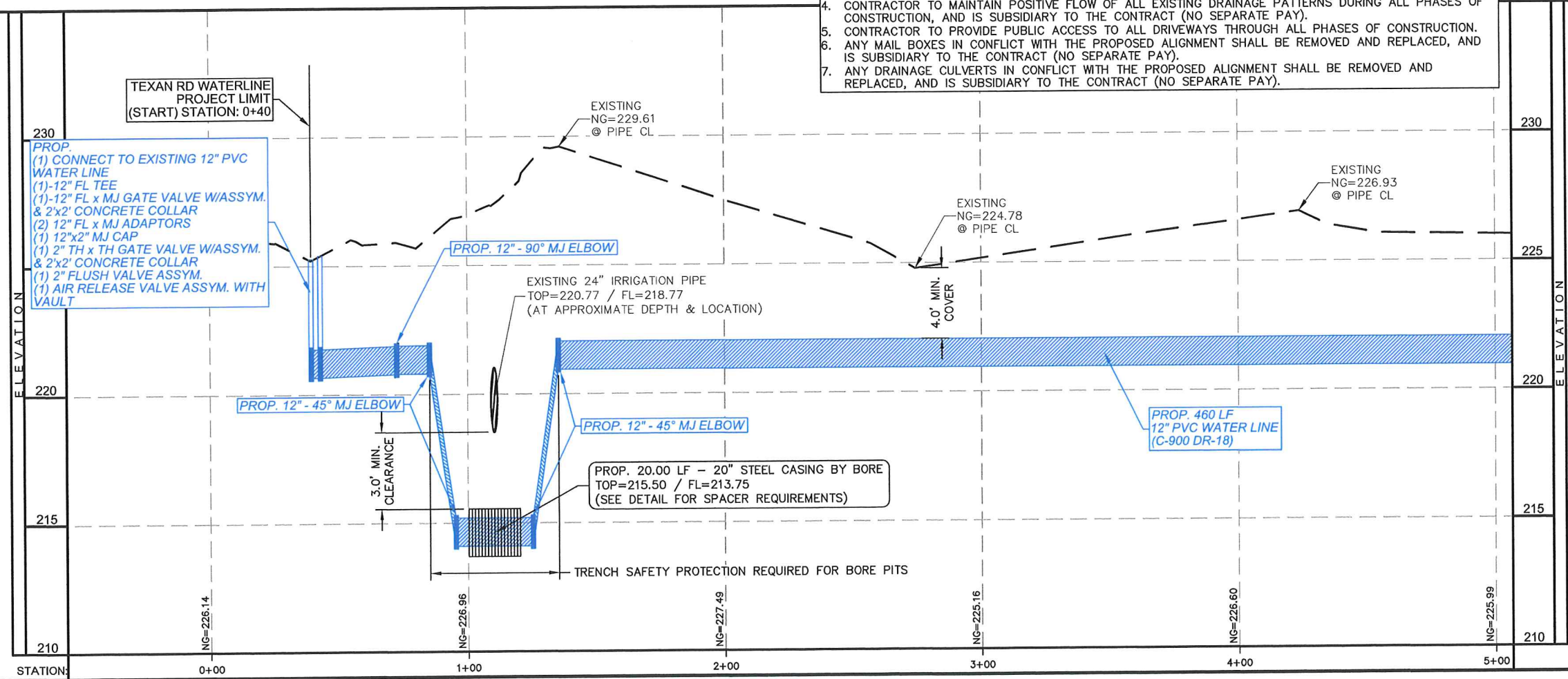
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ENGINEERS • CONSULTANTS • MANAGERS
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956.239.2984 | eddiesanz95@gmail.com
FIRM REGISTRATION # F-17262 (TEXAS)

TEXAN RD - PLAN & PROFILE STA: 0+40 - 5+00
AGUA SUD
WESTERN BOOSTER STATION
WATERLINE PROJECT
MISSION, TEXAS

- NOTES:
1. CAUTION!!! GAS SERVICE AND MAIN LINES THROUGHOUT THE PROPOSED ALIGNMENT TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO DIGGING, AND/OR INSTALLATION OF PROPOSED WATERLINES.
 2. CONTRACTOR SHALL NOTIFY GAS COMPANY PRIOR TO ANY EXCAVATION WITHIN TWENTY FEET OF GAS LINES.
 3. CONTRACTOR SHALL NOT DO ANY EXCAVATION WITHIN TWENTY FEET OF GAS LINES WITHOUT THE GAS COMPANY'S REPRESENTATIVE PRESENT ON-SITE.
 4. CONTRACTOR TO MAINTAIN POSITIVE FLOW OF ALL EXISTING DRAINAGE PATTERNS DURING ALL PHASES OF CONSTRUCTION, AND IS SUBSIDIARY TO THE CONTRACT (NO SEPARATE PAY).
 5. CONTRACTOR TO PROVIDE PUBLIC ACCESS TO ALL DRIVEWAYS THROUGH ALL PHASES OF CONSTRUCTION.
 6. ANY MAIL BOXES IN CONFLICT WITH THE PROPOSED ALIGNMENT SHALL BE REMOVED AND REPLACED, AND IS SUBSIDIARY TO THE CONTRACT (NO SEPARATE PAY).
 7. ANY DRAINAGE CULVERTS IN CONFLICT WITH THE PROPOSED ALIGNMENT SHALL BE REMOVED AND REPLACED, AND IS SUBSIDIARY TO THE CONTRACT (NO SEPARATE PAY).

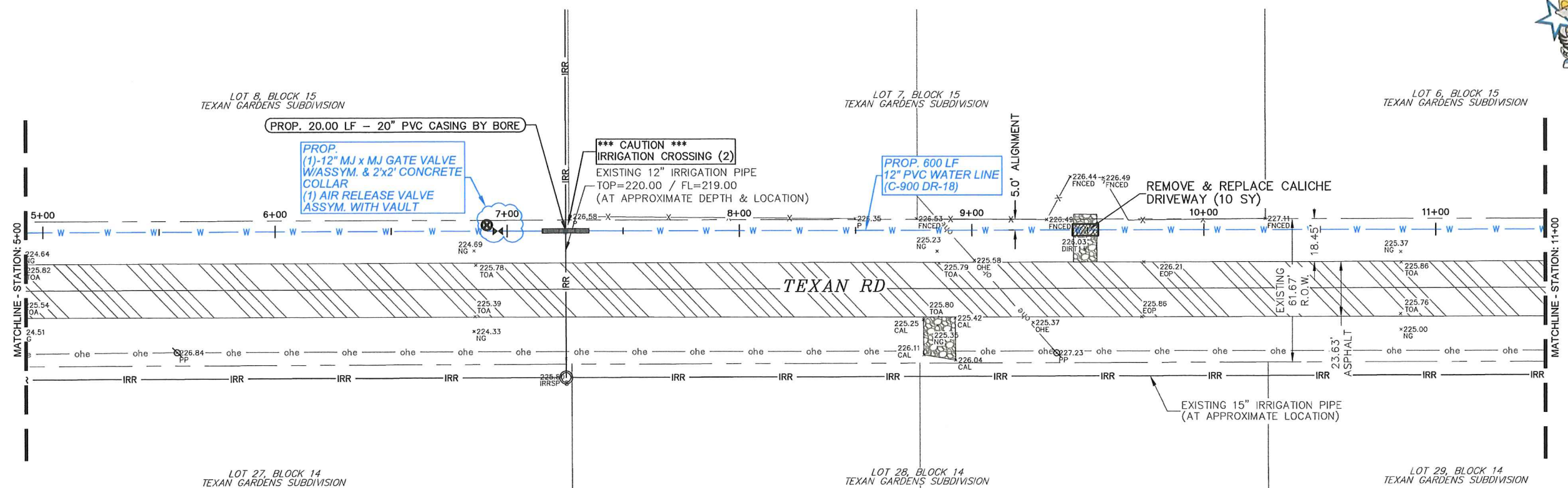
PLAN VIEW
SCALE: 1"=50'

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



SCALE: SEE PLAN
DRAWN BY: LALO CHAPA
CHECKED BY: JOSE E. SAENZ
SURVEYED BY: JOSE M. GONZALEZ
SHEET: 5

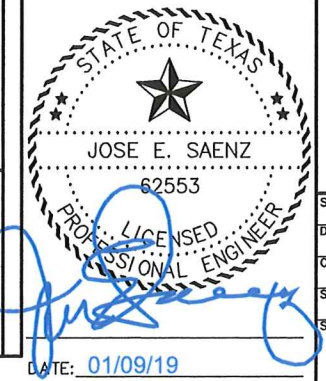
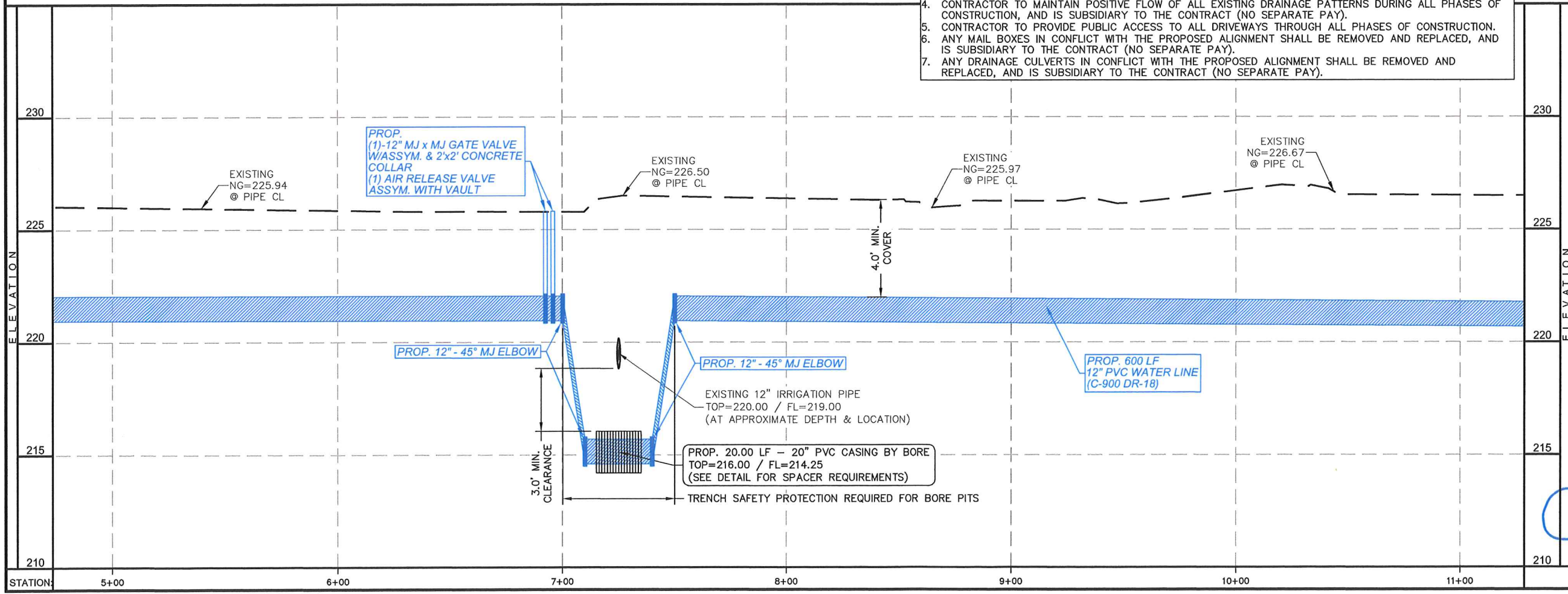
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PLAN VIEW
SCALE: 1"=50'

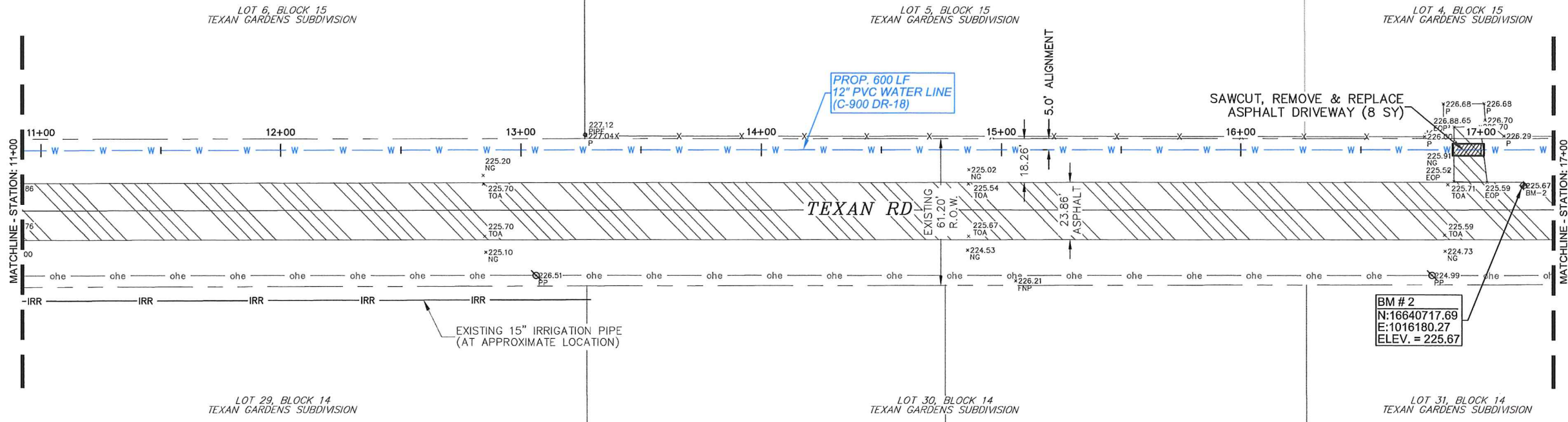
PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



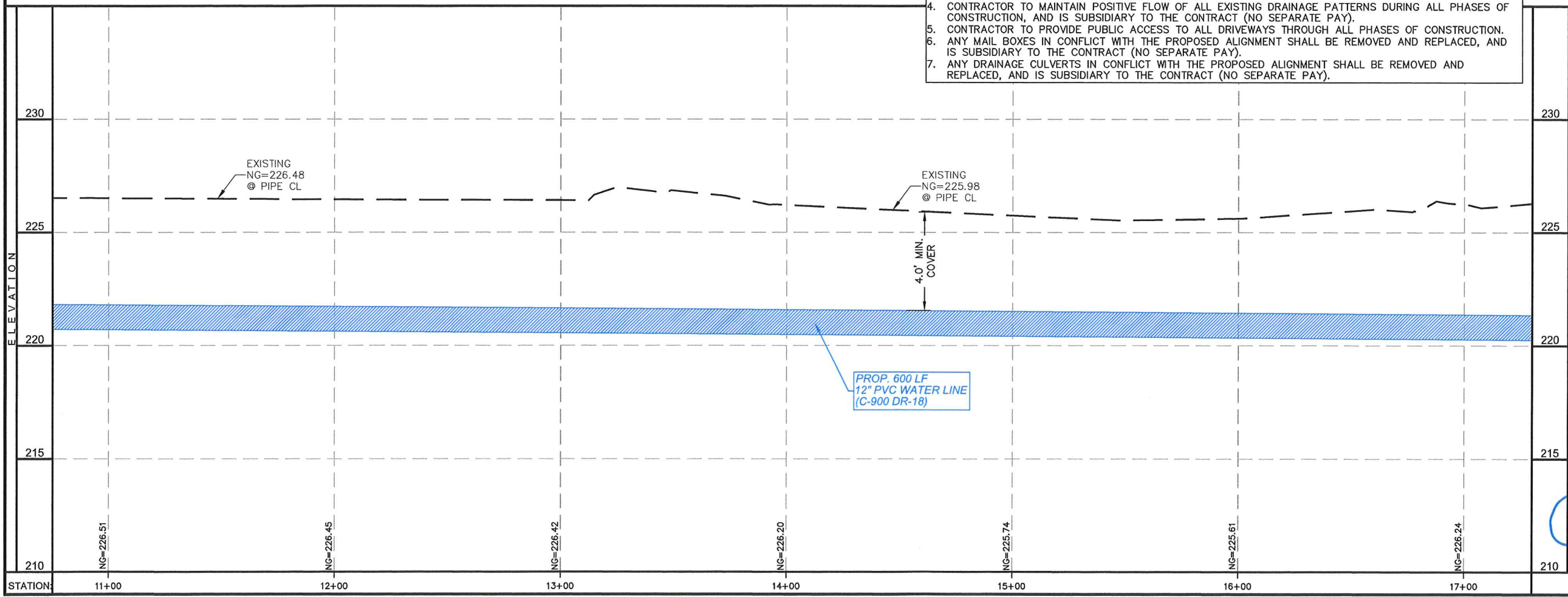
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FIRM REGISTRATION # F-17262 (TEXAS)

TEXAN RD - PLAN & PROFILE STA: 5+00 - 11+00
AGUA SUD
WESTERN BOOSTER STATION
WATERLINE PROJECT
MISSION, TEXAS

SCALE: SEE PLAN
DRAWN BY: LALO CHAPA
CHECKED BY: JOSE E. SAENZ
SURVEYED BY: JOSE M. GONZALEZ
SHEET: 6

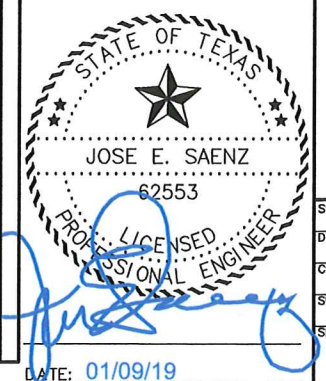


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PLAN VIEW
SCALE: 1"=50'

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



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TEXAN RD - PLAN & PROFILE STA: 11+00 - 17+00

AGUA SUD
WESTERN BOOSTER STATION
WATERLINE PROJECT
MISSION, TEXAS

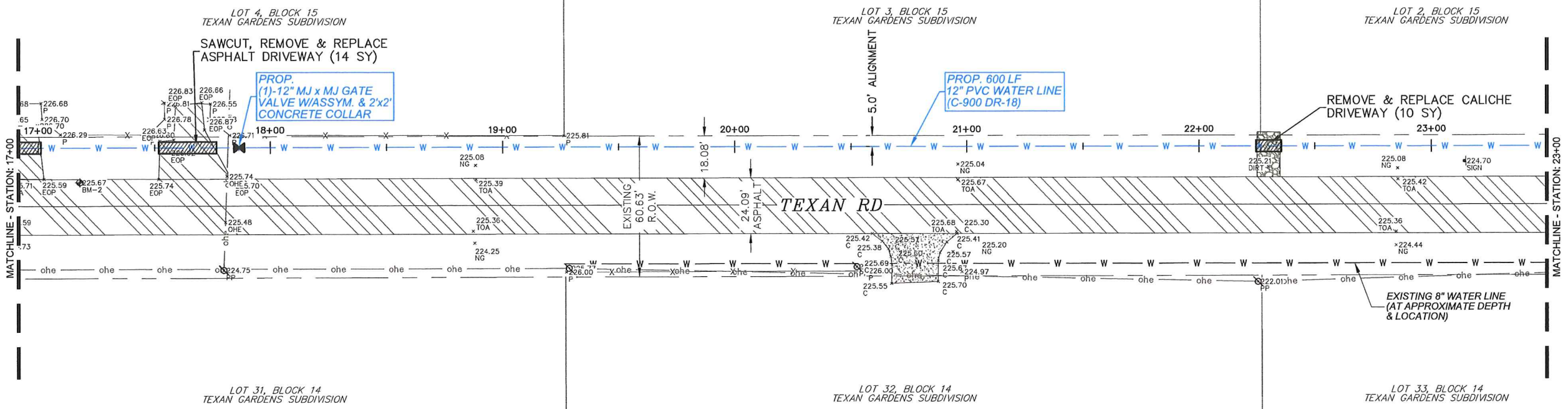
SCALE: SEE PLAN
DRAWN BY: LALO CHAPA
CHECKED BY: JOSE E. SAENZ
SURVEYED BY: JOSE M. GONZALEZ
SHEET: 7

DATE: 01/09/19



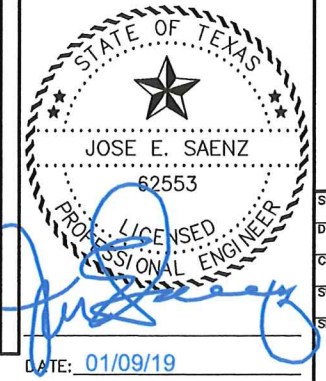
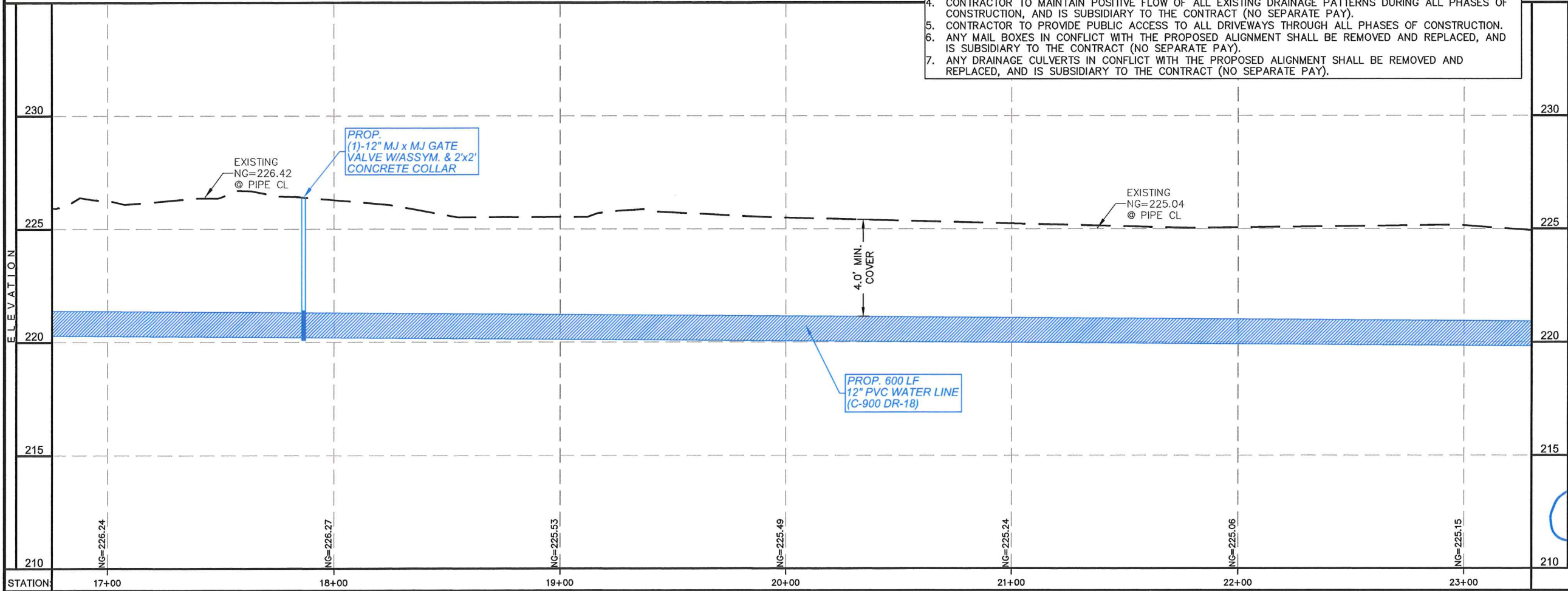
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TEXAN RD - PLAN & PROFILE STA: 17+00 - 23+00
 AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS



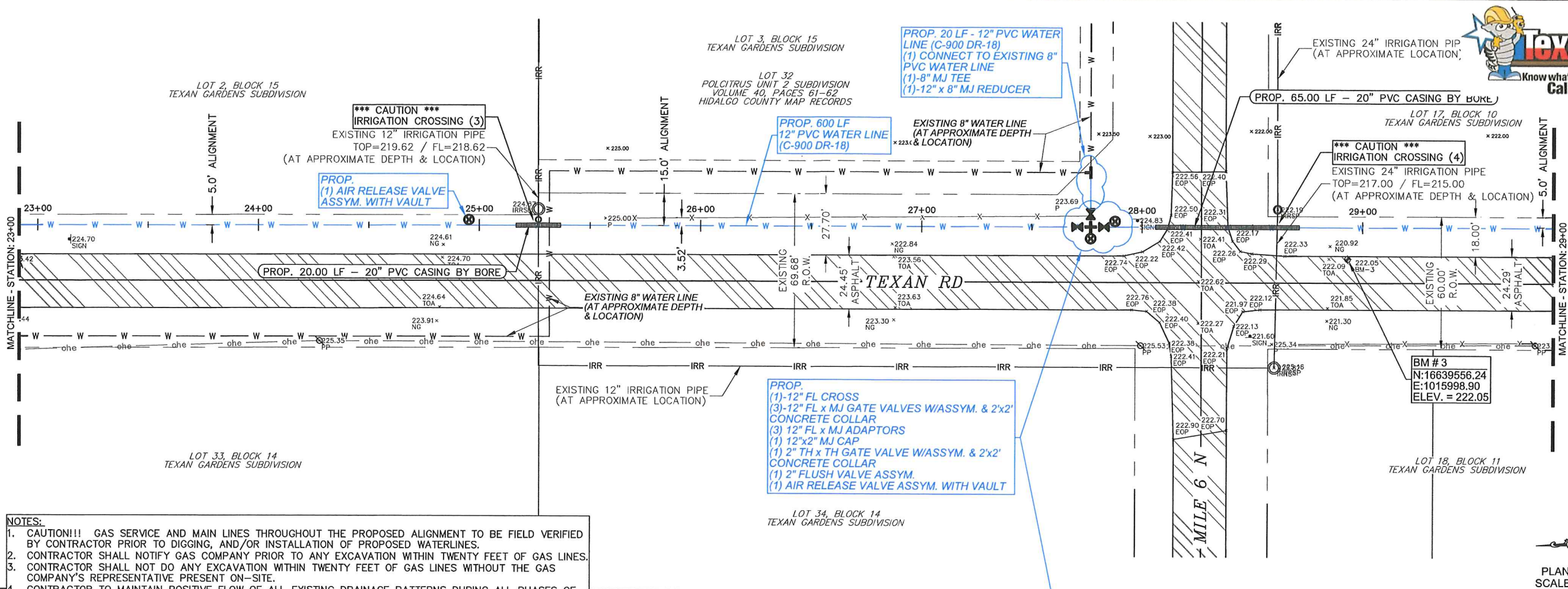
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PLAN VIEW
 SCALE: 1"=50'
 PROFILE VIEW
 HORIZONTAL SCALE: 1"=50'
 VERTICAL SCALE: 1"=5'

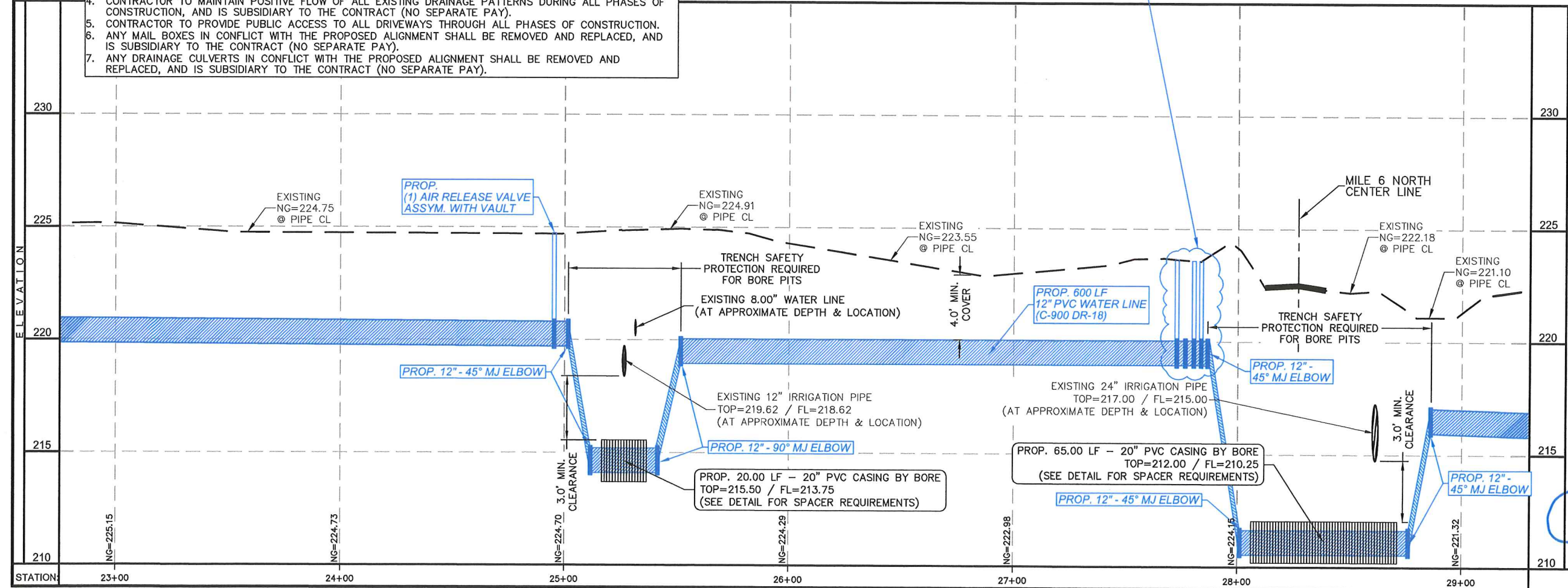


SCALE: SEE PLAN
 DRAWN BY: LALO CHAPA
 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET: 8

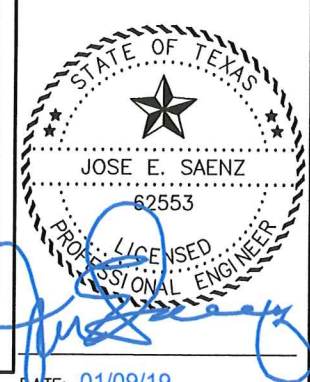
DATE: 01/09/19



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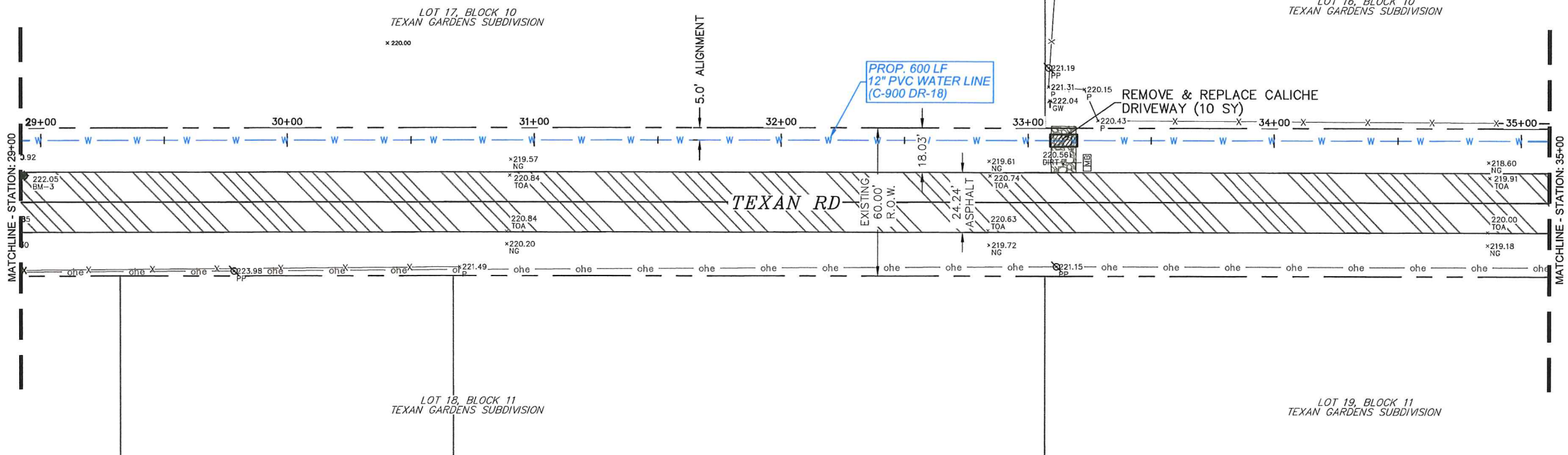
PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



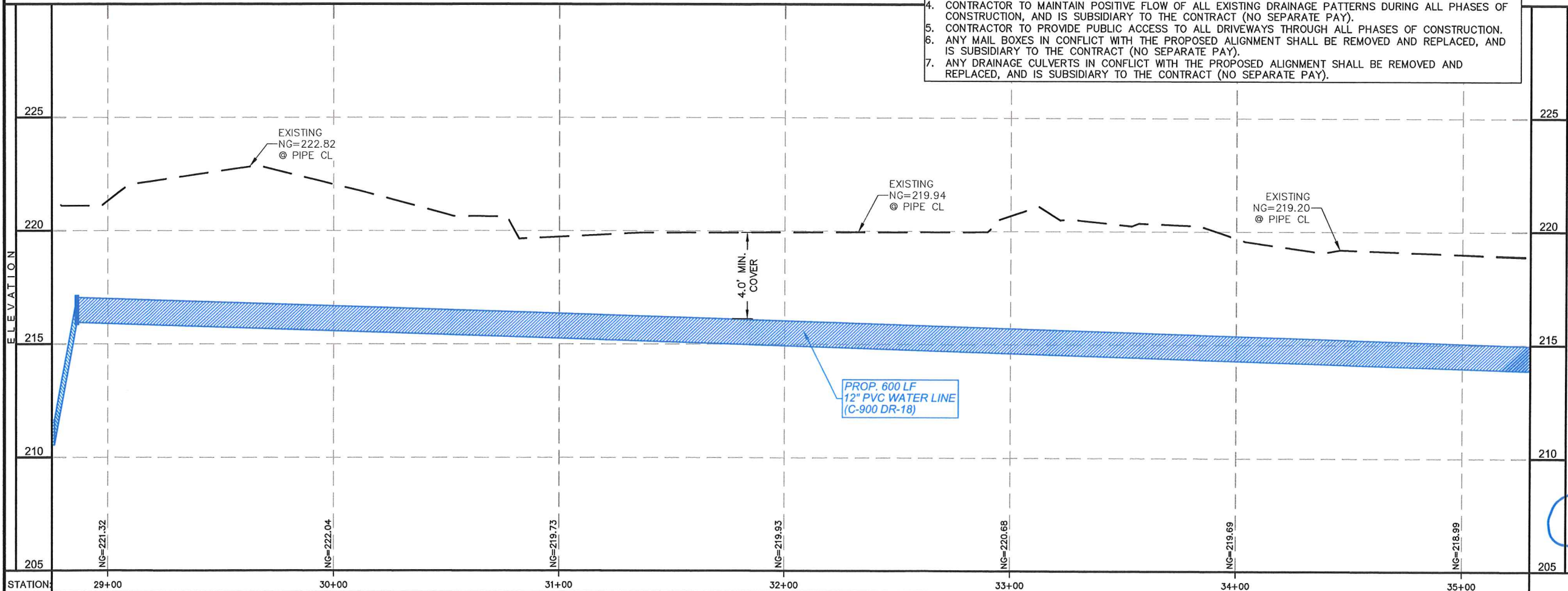
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TEXAN RD - PLAN & PROFILE STA: 23+00 - 29+00
AGUA SUD
WESTERN BOOSTER STATION
WATERLINE PROJECT
MISSION, TEXAS

SCALE: SEE PLAN
DRAWN BY: LALO CHAPA
CHECKED BY: JOSE E. SAENZ
SURVEYED BY: JOSE M. GONZALEZ
DATE: 01/09/19

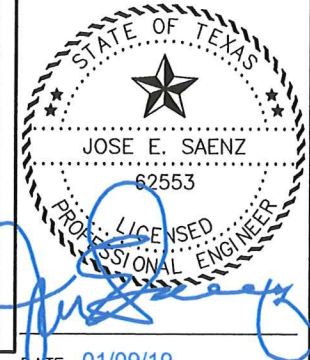


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PLAN VIEW
SCALE: 1"=50'

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



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TEXAN RD - PLAN & PROFILE STA: 29+00 - 35+00

AGUA SUD

WESTERN BOOSTER STATION

WATERLINE PROJECT

MISSION, TEXAS

SCALE: SEE PLAN

DRAWN BY: LALO CHAPA

CHECKED BY: JOSE E. SAENZ

SURVEYED BY: JOSE M. GONZALEZ

SHEET:

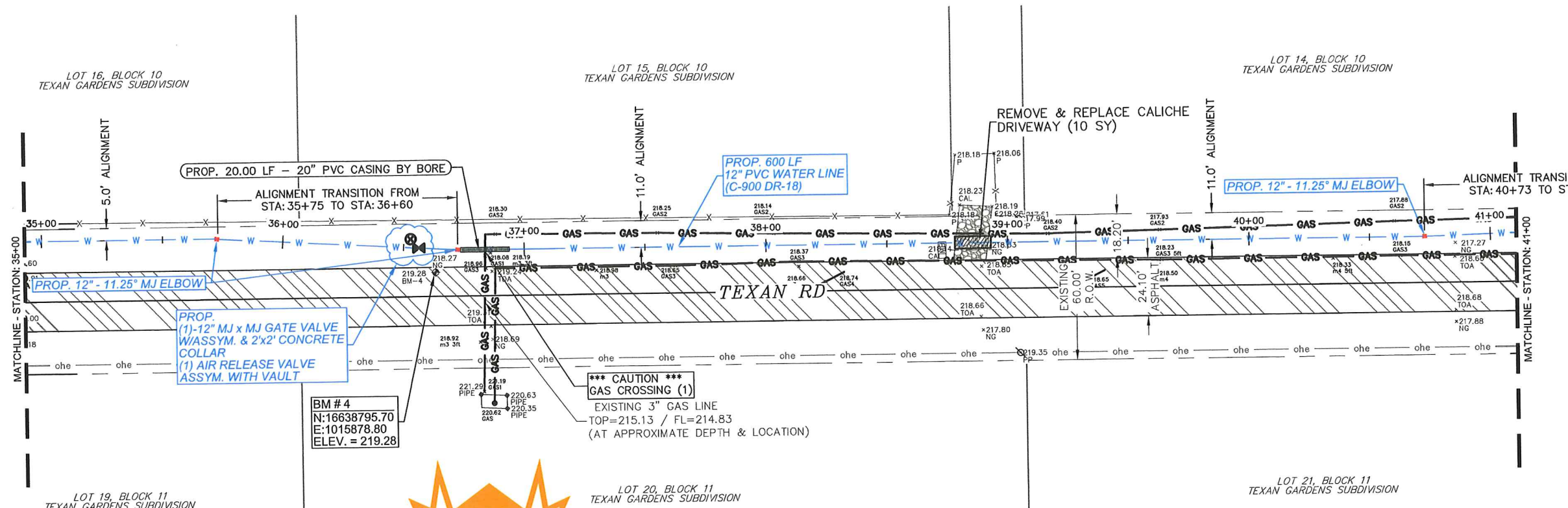
DATE: 01/09/19

10



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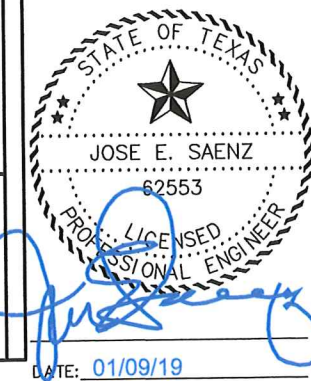
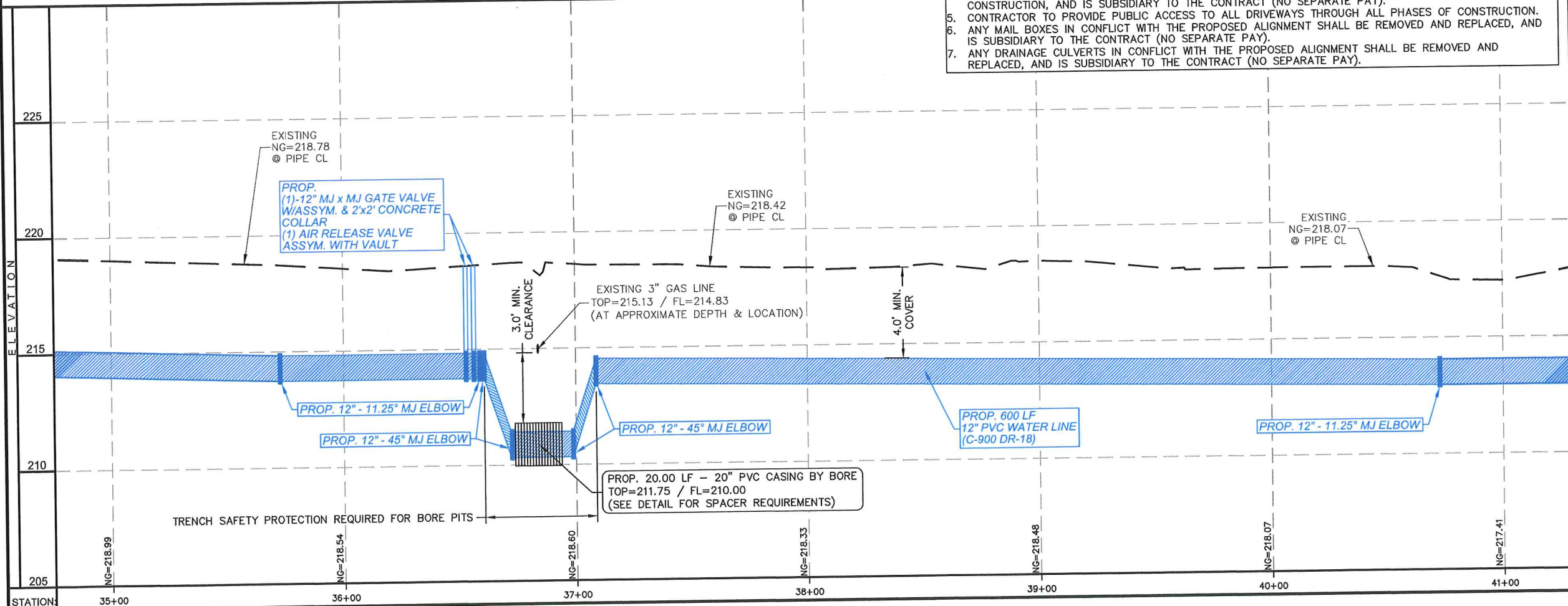
TEXAN RD - PLAN & PROFILE STA: 35+00 - 41+00
 AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS



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PLAN VIEW
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PROFILE VIEW
 HORIZONTAL SCALE: 1"=50'
 VERTICAL SCALE: 1"=5'

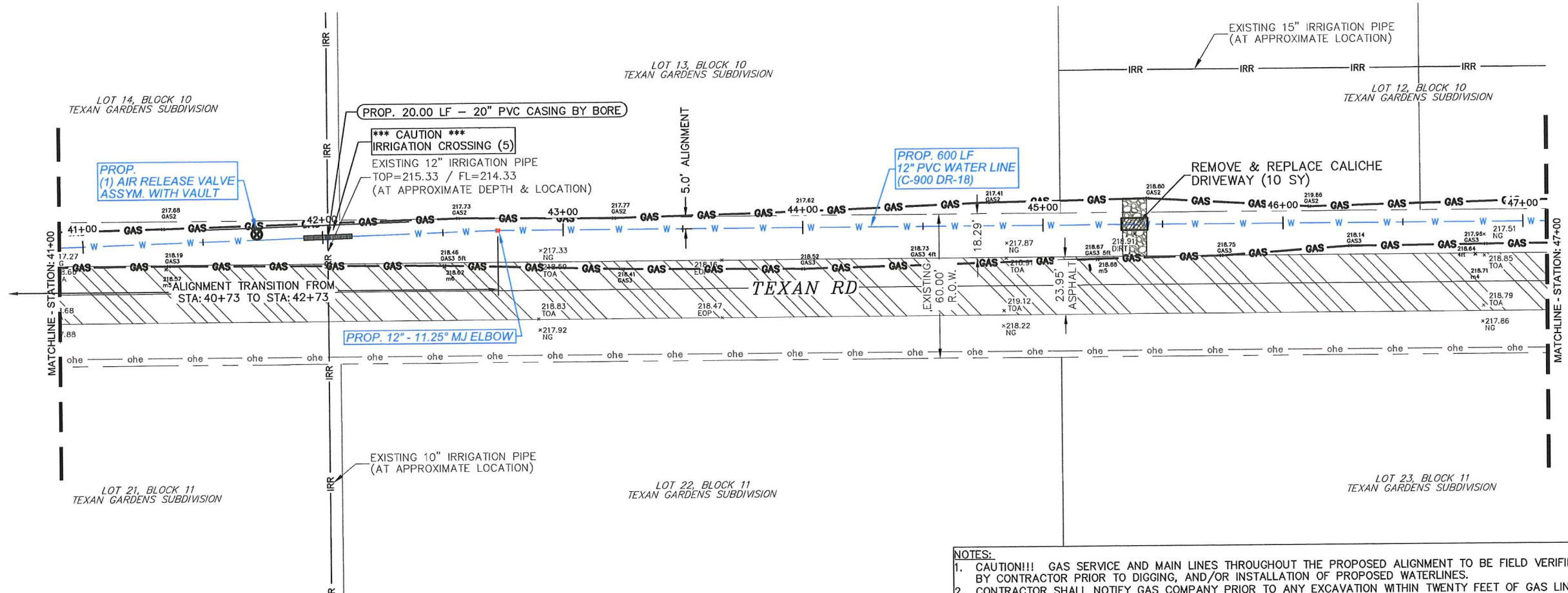


SCALE: SEE PLAN
 DRAWN BY: LALO CHAPA
 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET: 11

DATE: 01/09/19



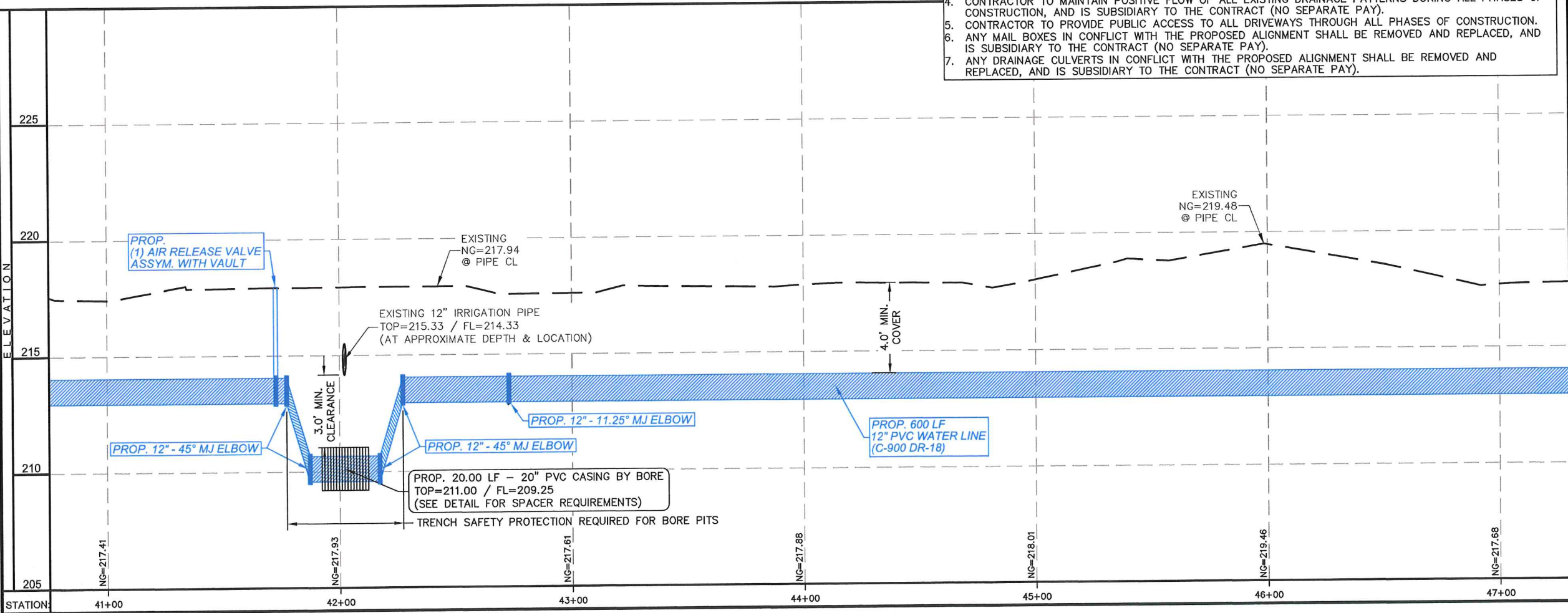
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 FIRM REGISTRATION # F-17262 (TEXAS)



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 SCALE: 1"=50'

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



TEXAN RD - PLAN & PROFILE STA: 41+00 - 47+00

AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS

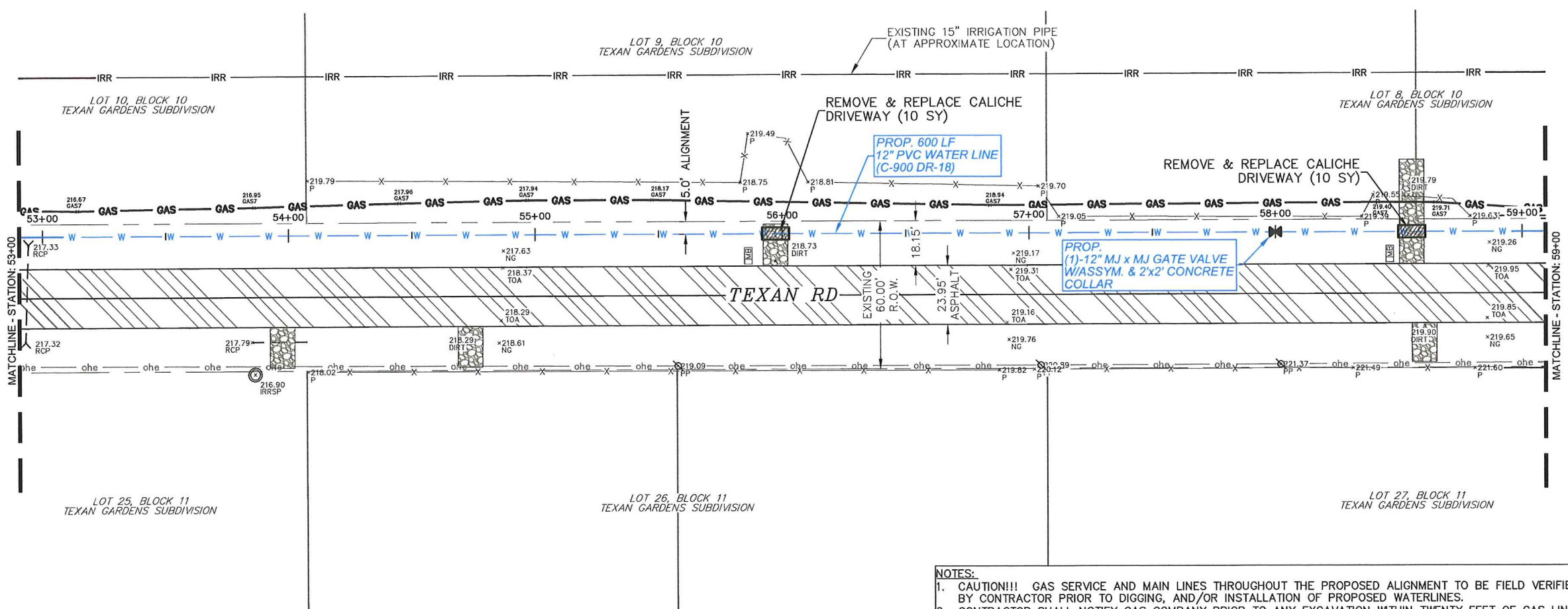
SCALE: SEE PLAN
 DRAWN BY: LALO CHAPA
 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET:

DATE: 01/09/19



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TEXAN RD - PLAN & PROFILE STA: 53+00 - 59+00
 AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS

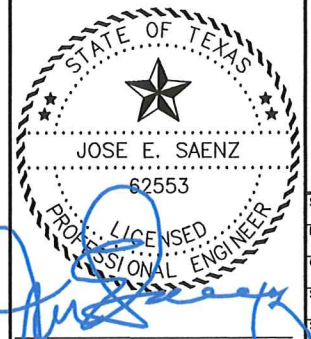
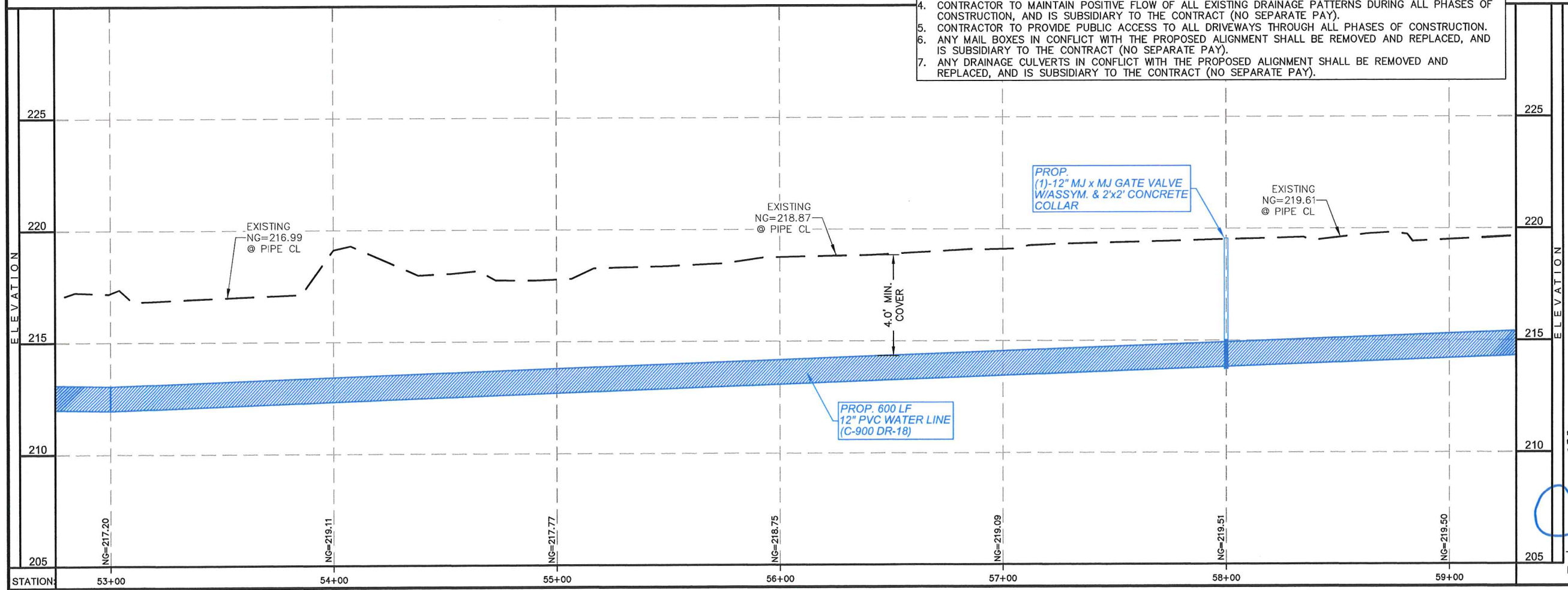


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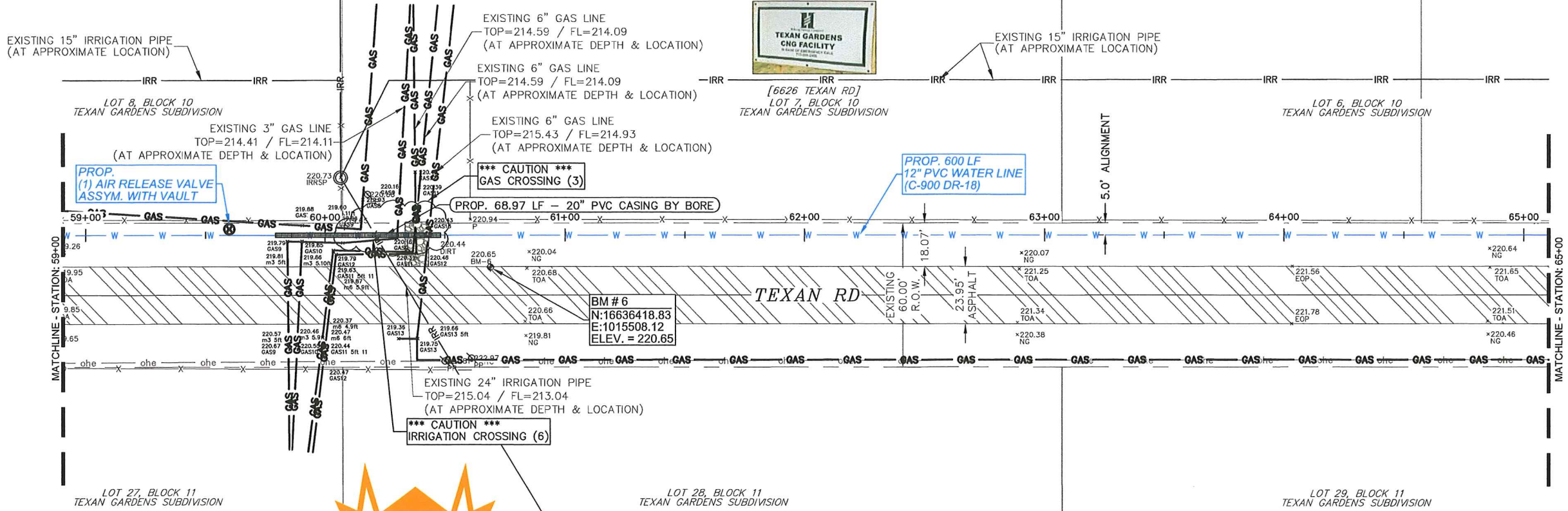
PLAN VIEW
 SCALE: 1"=50'

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



SCALE: SEE PLAN
 DRAWN BY: LALO CHAPA
 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET:

DATE: 01/09/19

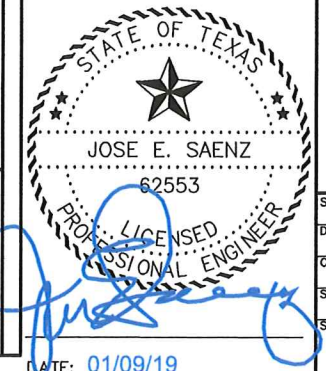
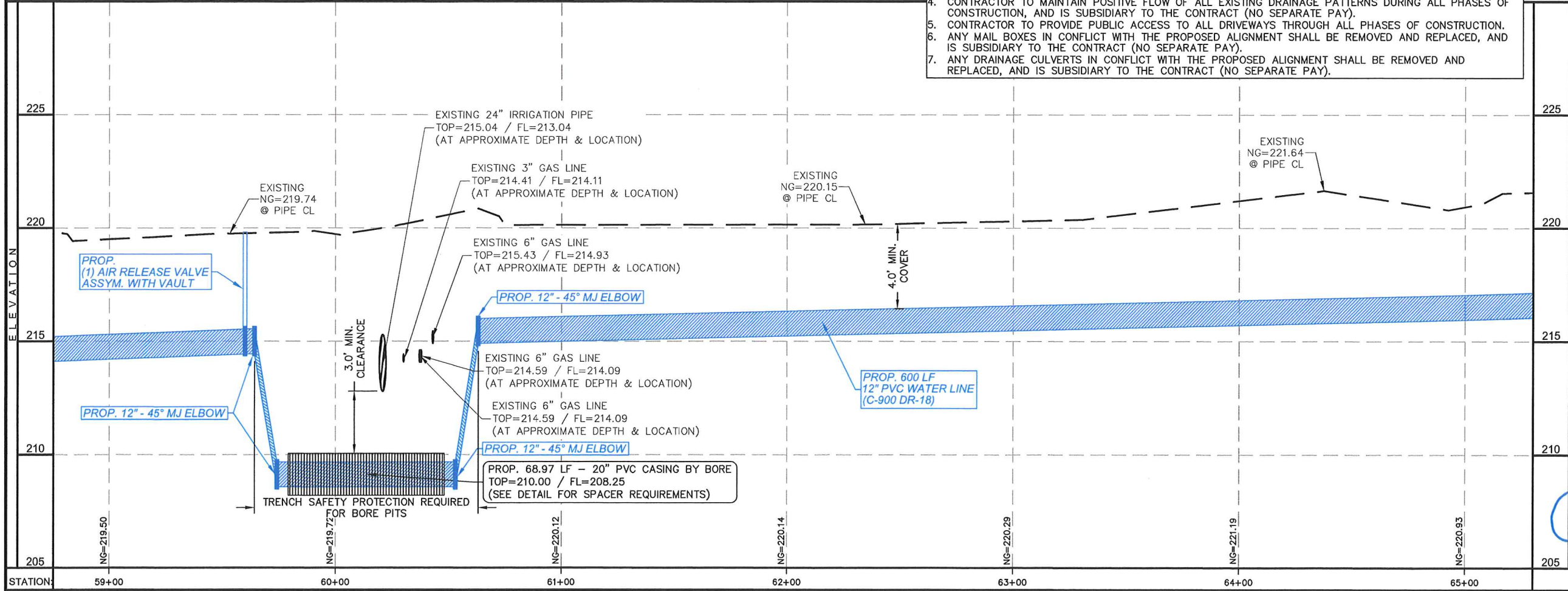


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 FIRM REGISTRATION # F-17262 (TEXAS)

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PROFILE VIEW
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 VERTICAL SCALE: 1"=5'



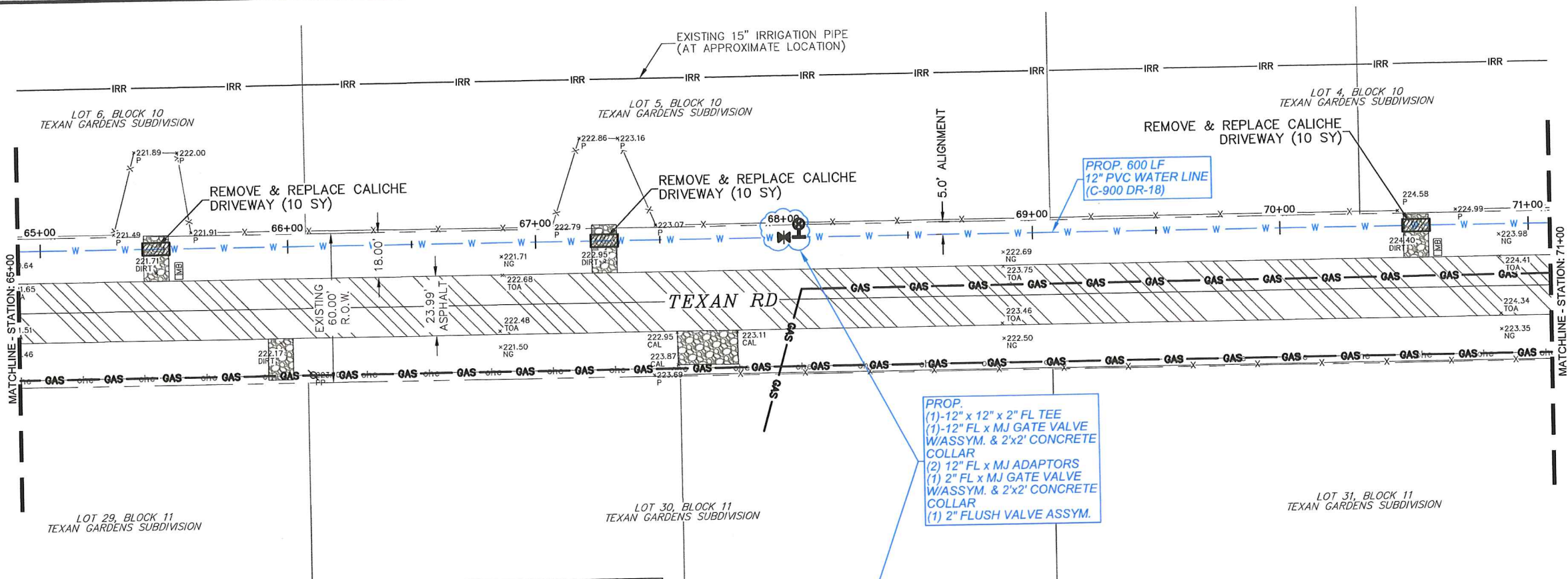
TEXAN RD - PLAN & PROFILE STA: 59+00 - 65+00
 AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS

SCALE: SEE PLAN
 DRAWN BY: LALO CHAPA
 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET:

DATE: 01/09/19

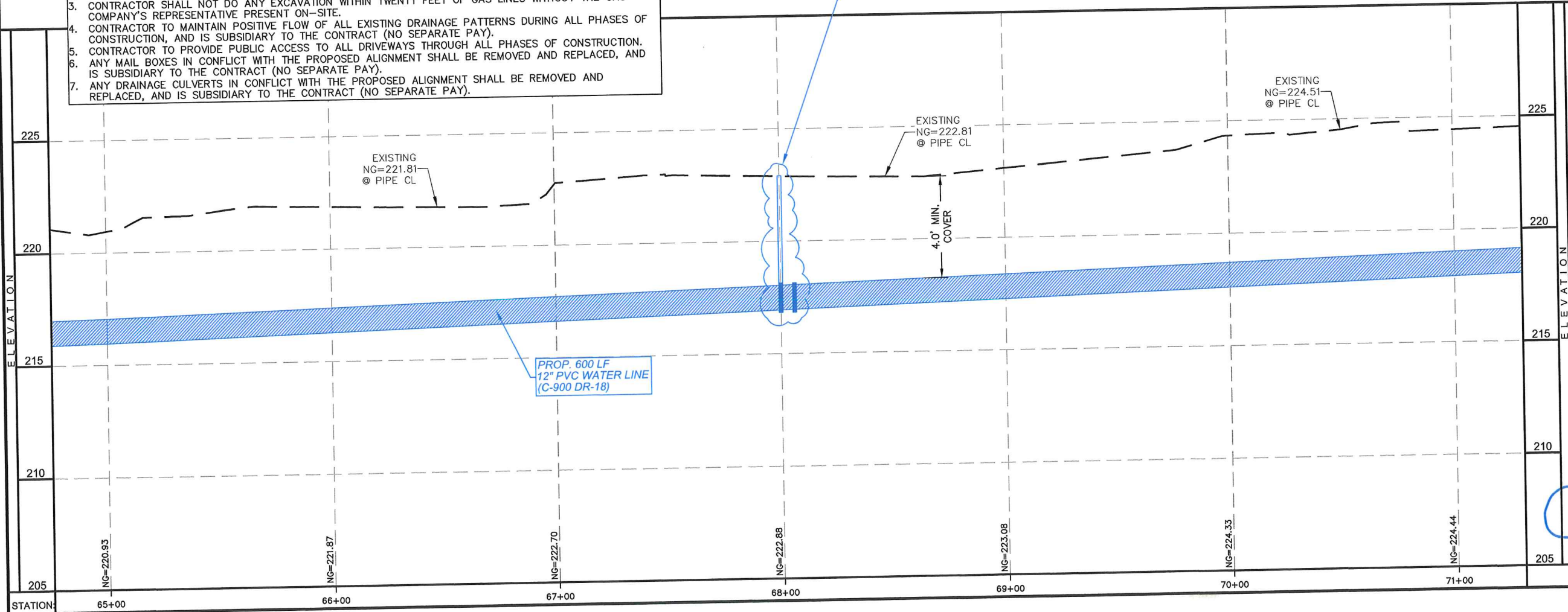


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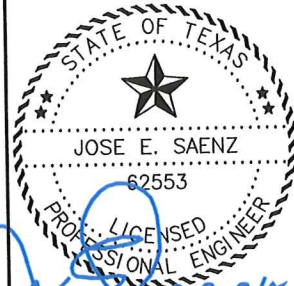


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PROP.
 (1) 12" x 12" x 2" FL TEE
 (1) 12" FL x MJ GATE VALVE
 W/ASYM. & 2'x2' CONCRETE
 COLLAR
 (2) 12" FL x MJ ADAPTORS
 (1) 2" FL x MJ GATE VALVE
 W/ASYM. & 2'x2' CONCRETE
 COLLAR
 (1) 2" FLUSH VALVE ASSYM.



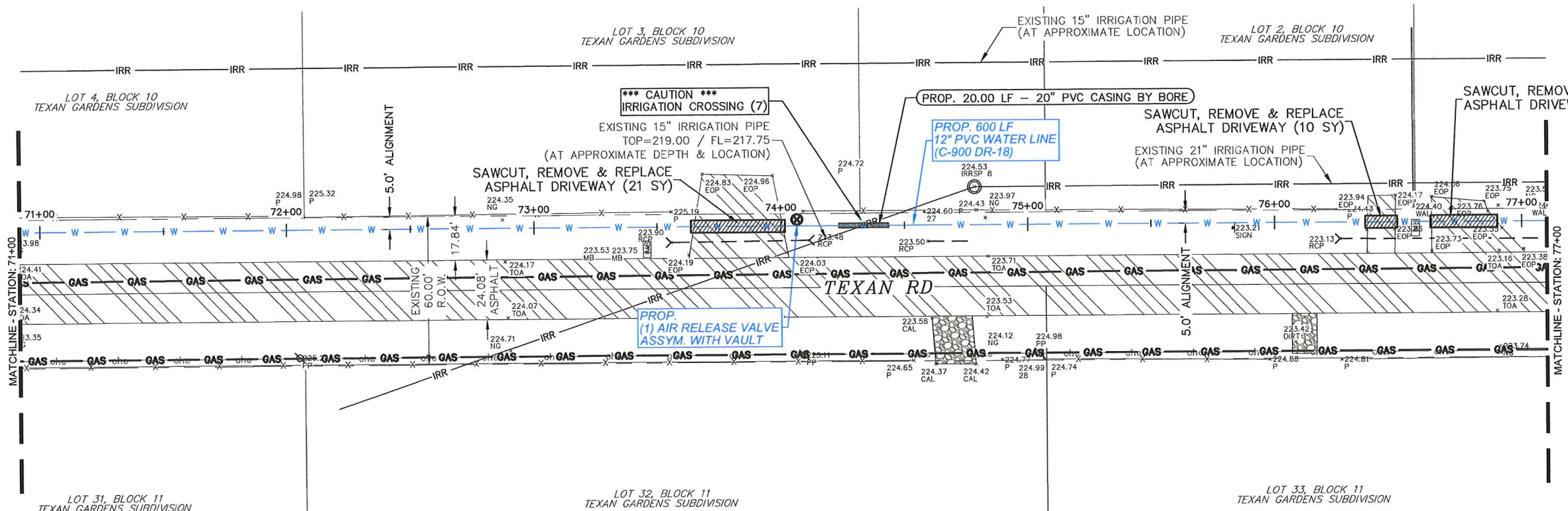
PLAN VIEW
 SCALE: 1"=50'
 PROFILE VIEW
 HORIZONTAL SCALE: 1"=50'
 VERTICAL SCALE: 1"=5'



TEXAN RD - PLAN & PROFILE STA: 65+00 - 71+00
 AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS

SCALE: SEE PLAN
 DRAWN BY: LALO CHAPA
 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET:

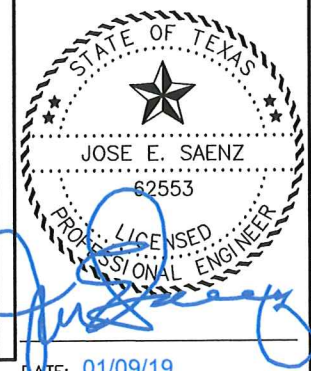
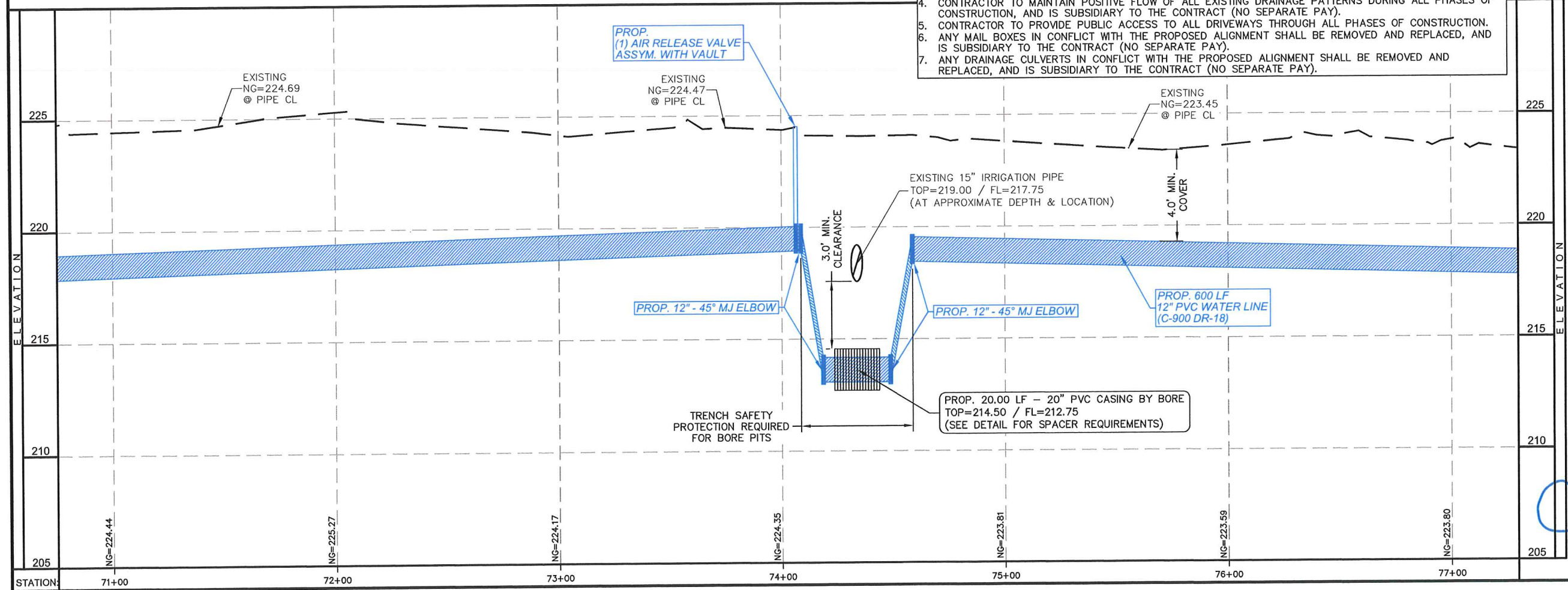
DATE: 01/09/19



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PLAN VIEW
SCALE: 1"=50'

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



C S J GROUP
ENGINEERS • CONSULTANTS • MANAGERS

825 E. ALBERTA RD. | EDINBURG, TX 78539
956.239.2984 | eddisaenz95@gmail.com
FIRM REGISTRATION # F-17262 (TEXAS)

TEXAN RD - PLAN & PROFILE STA: 71+00 - 77+00

AGUA SUD
WESTERN BOOSTER STATION
WATERLINE PROJECT
MISSION, TEXAS

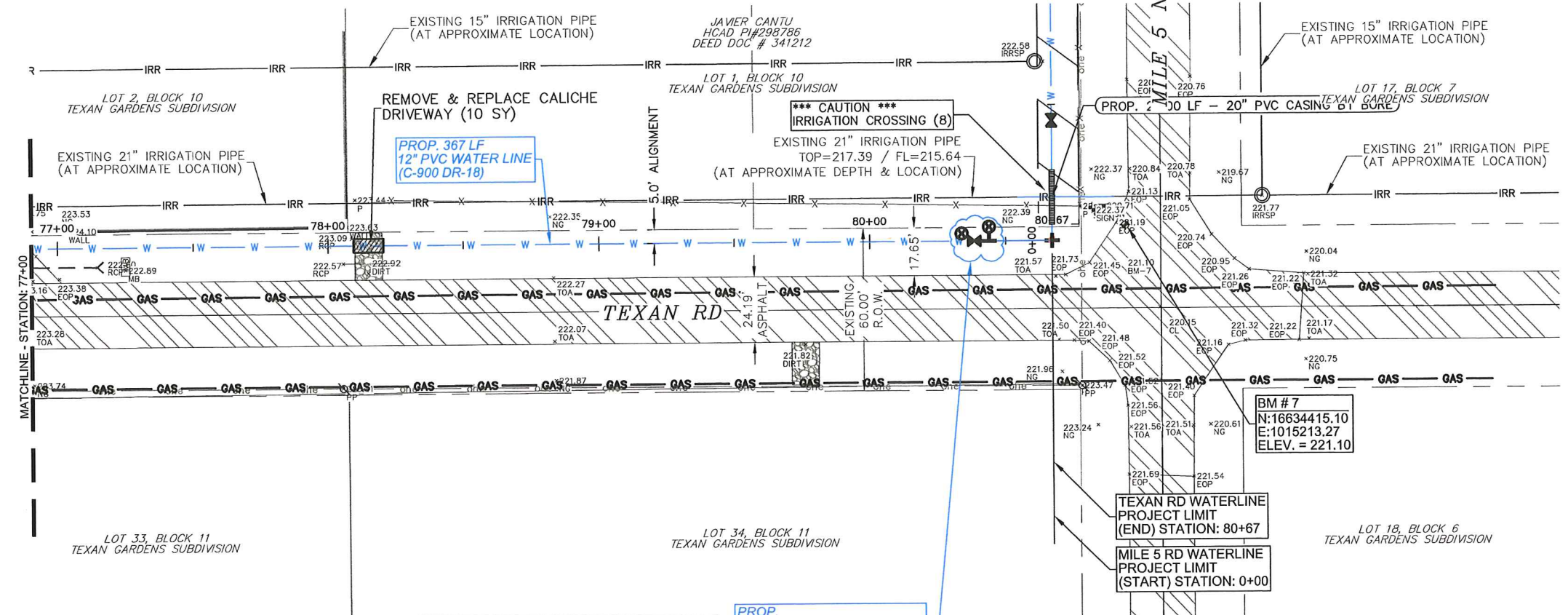
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DRAWN BY: LALO CHAPA
CHECKED BY: JOSE E. SAENZ
SURVEYED BY: JOSE M. GONZALEZ
SHEET:

DATE: 01/09/19



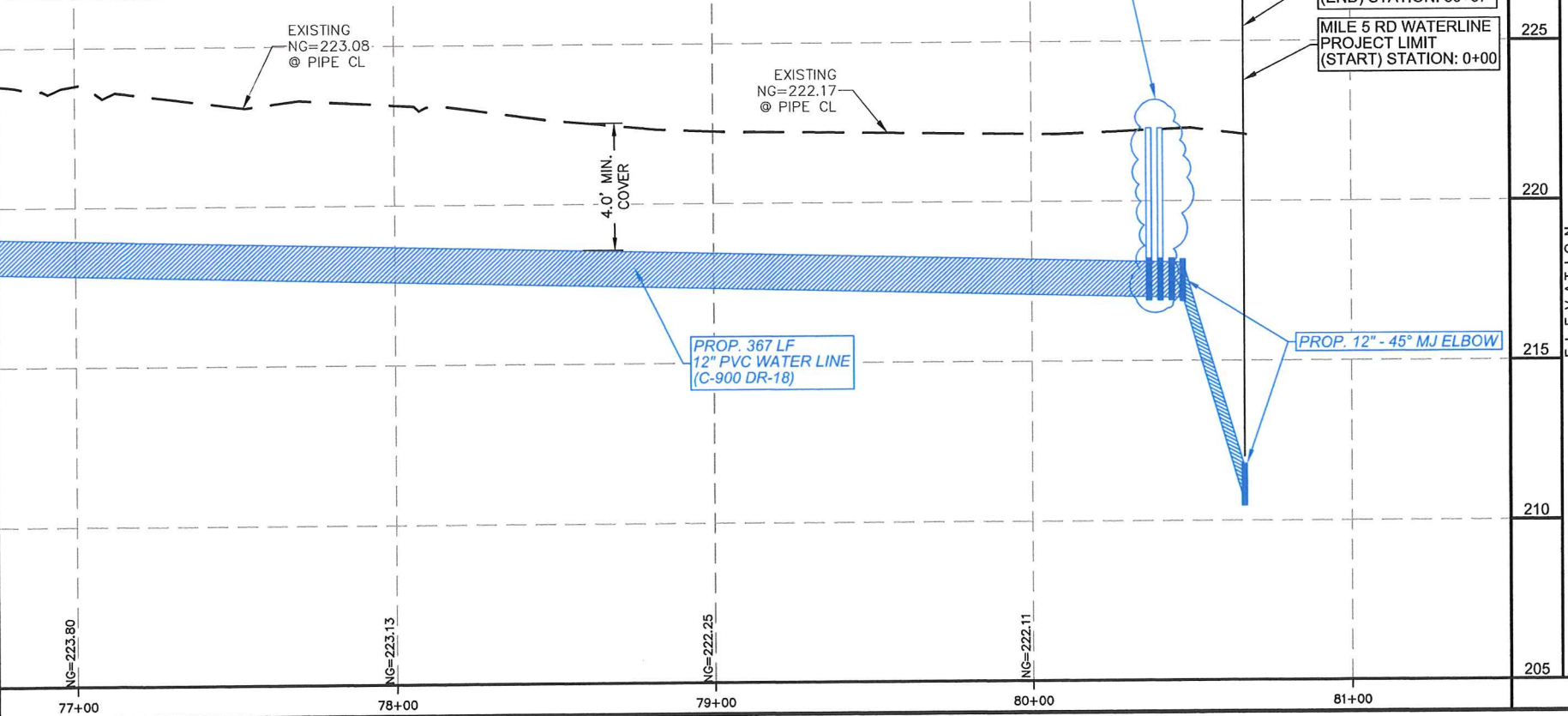
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 FIRM REGISTRATION # F-17262 (TEXAS)

TEXAN RD - PLAN & PROFILE STA: 77+00 - 80+67
 AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS

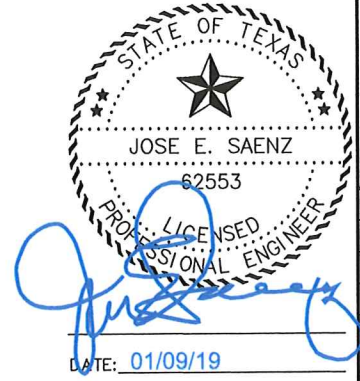


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- (1)-12" X 12" X 2" FL TEE
 - (1)-12" FL x MJ GATE VALVE W/ASSYM. & 2'x2' CONCRETE COLLAR
 - (2) 12" FL x MJ ADAPTORS
 - (1) 2" FL x MJ GATE VALVE W/ASSYM. & 2'x2' CONCRETE COLLAR
 - (1) 2" FLUSH VALVE ASSYM.
 - (1) AIR RELEASE VALVE ASSYM. WITH VAULT



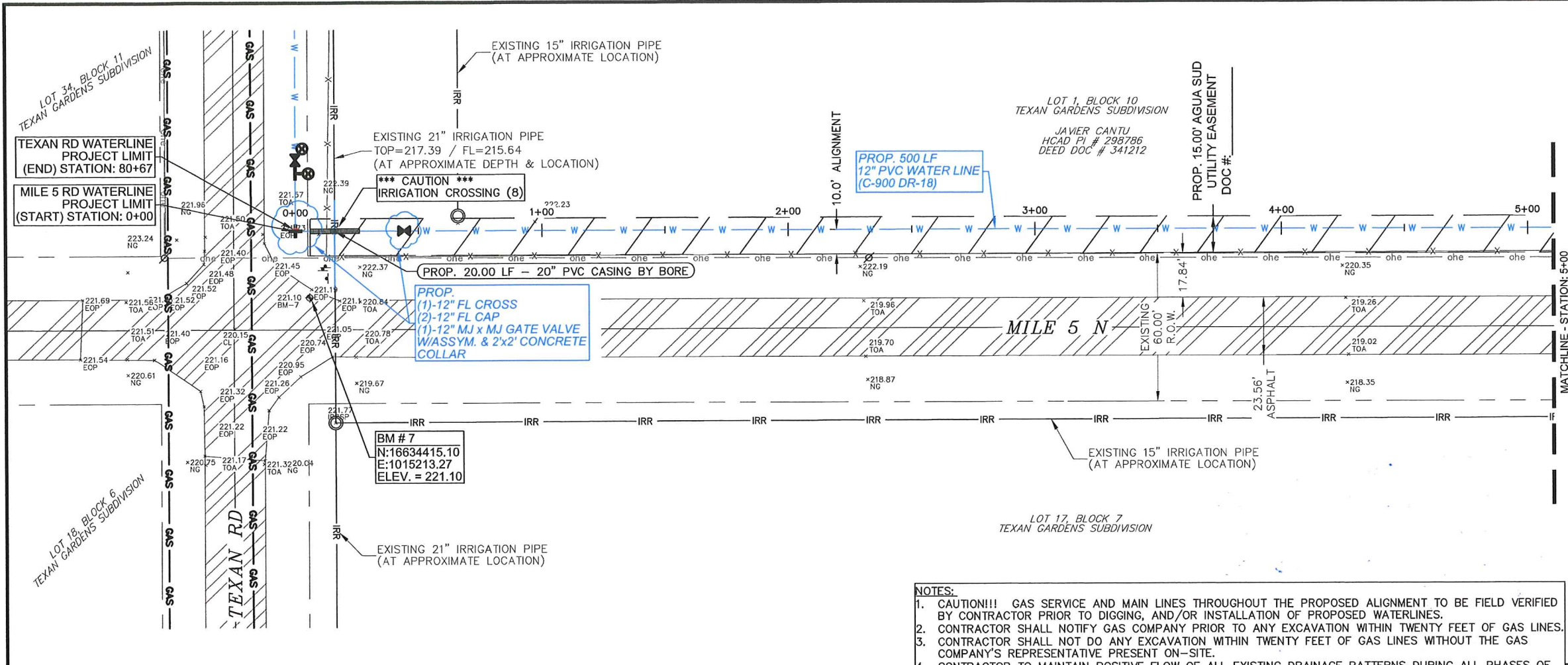
PLAN VIEW
 SCALE: 1"=50'
 PROFILE VIEW
 HORIZONTAL SCALE: 1"=50'
 VERTICAL SCALE: 1"=5'



SCALE: SEE PLAN
 DRAWN BY: LALO CHAPA
 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET:



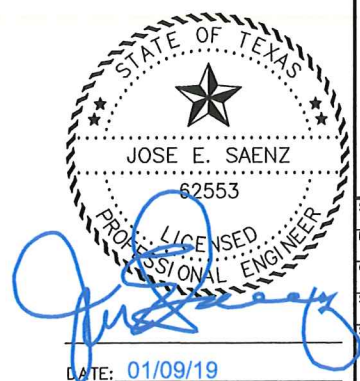
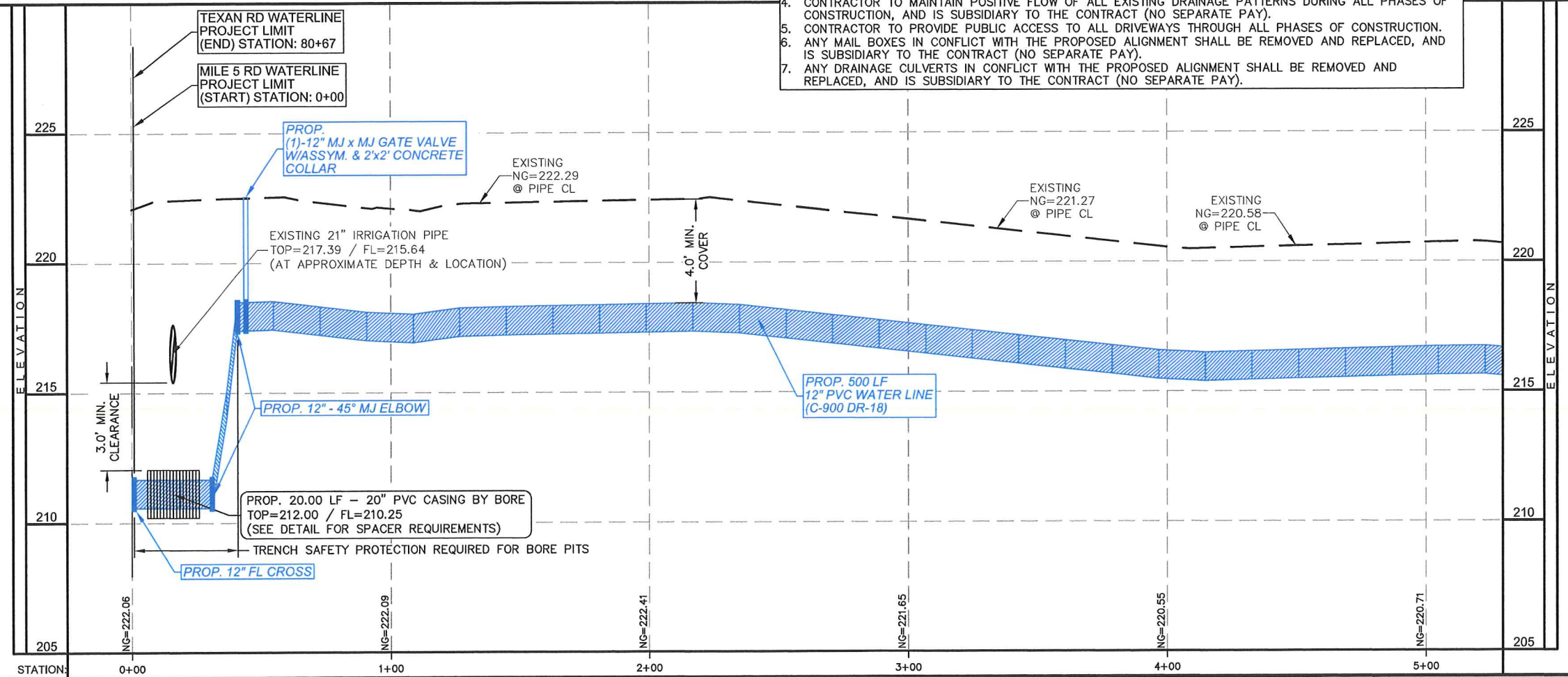
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 FIRM REGISTRATION # F-17262 (TEXAS)



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PLAN VIEW
 SCALE: 1"=50'

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



MILE 5 N - PLAN & PROFILE STA: 0+00 - 5+00
 AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS

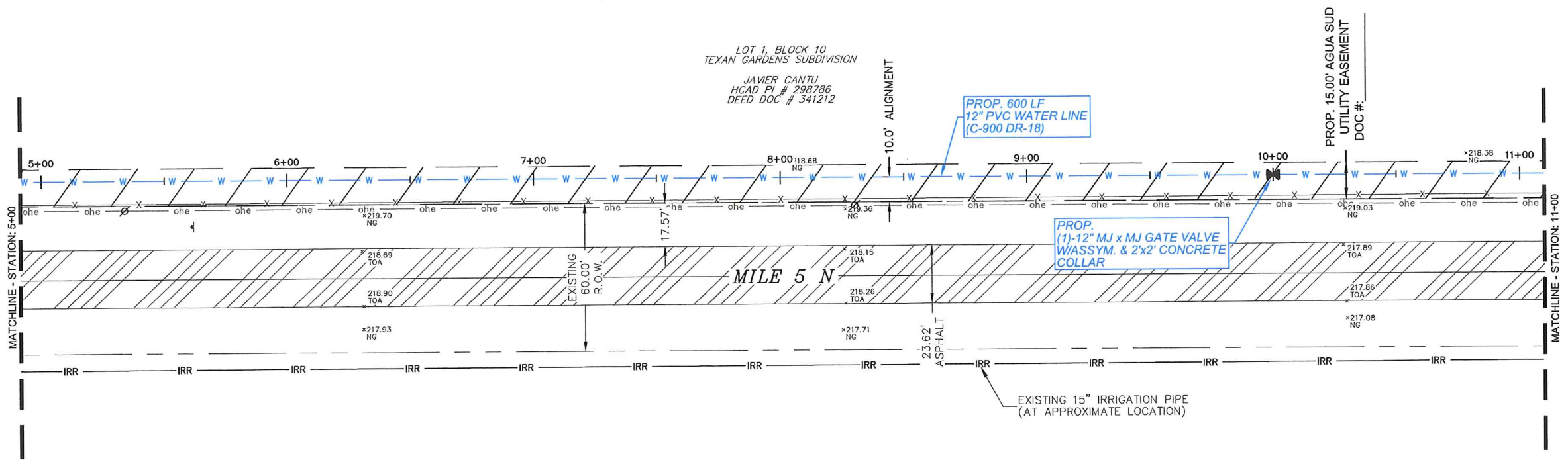
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 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET:

DATE: 01/09/19

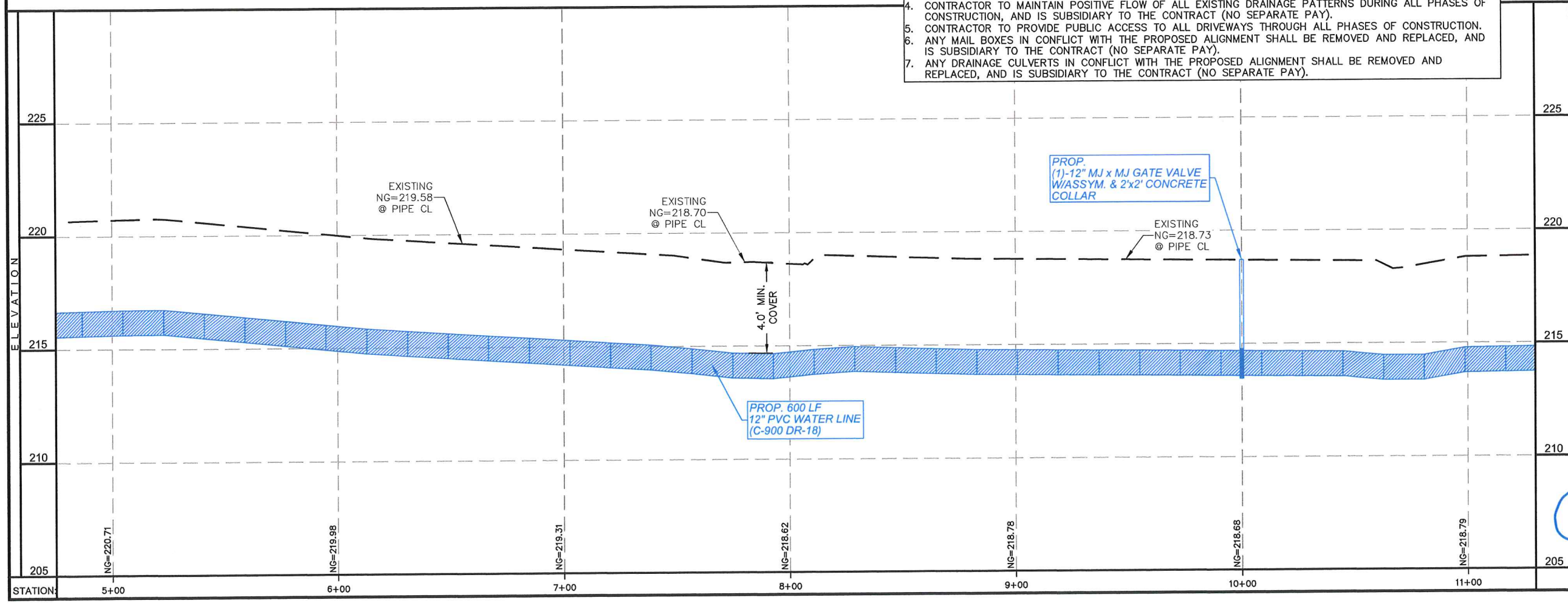


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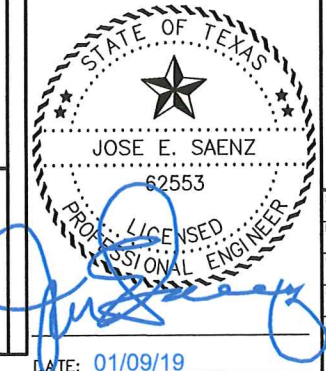
MILE 5 N - PLAN & PROFILE STA: 5+00 - 11+00
 AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS



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PLAN VIEW
 SCALE: 1"=50'
 PROFILE VIEW
 HORIZONTAL SCALE: 1"=50'
 VERTICAL SCALE: 1"=5'



SCALE: SEE PLAN
 DRAWN BY: LALO CHAPA
 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET: 20

DATE: 01/09/19



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MILE 5 N - PLAN & PROFILE STA: 11+00 - 17+00

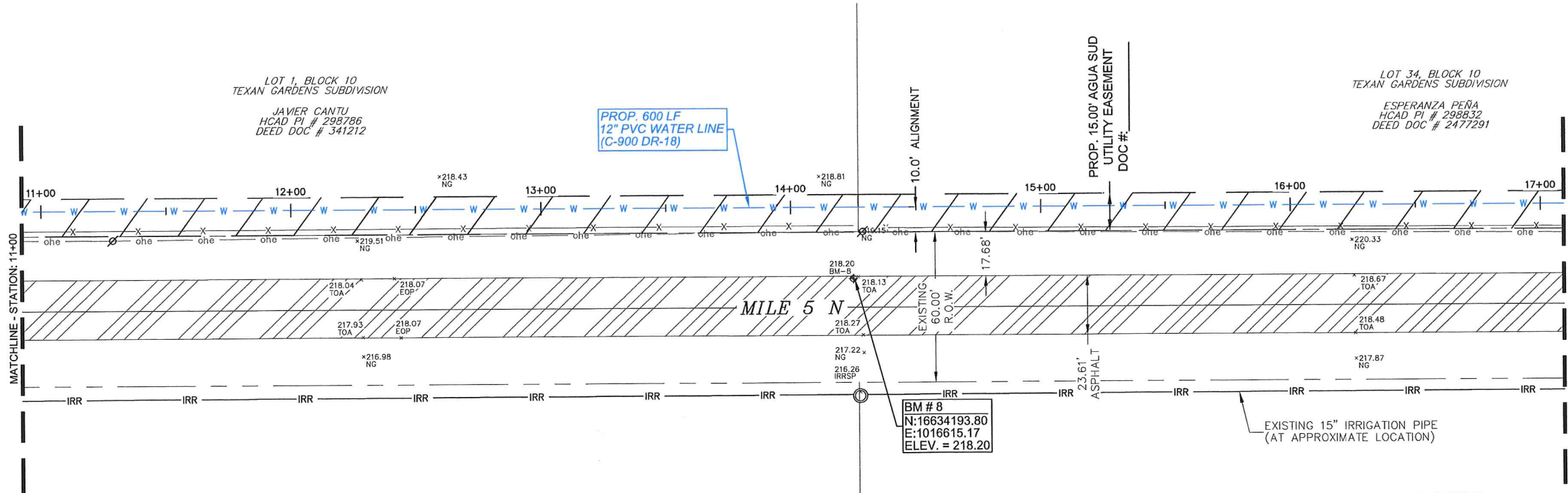
AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS

LOT 1, BLOCK 10
 TEXAN GARDENS SUBDIVISION
 JAVIER CANTU
 HCAD PI # 298786
 DEED DOC # 341212

LOT 34, BLOCK 10
 TEXAN GARDENS SUBDIVISION
 ESPERANZA PEÑA
 HCAD PI # 298832
 DEED DOC # 2477291

LOT 17, BLOCK 7
 TEXAN GARDENS SUBDIVISION

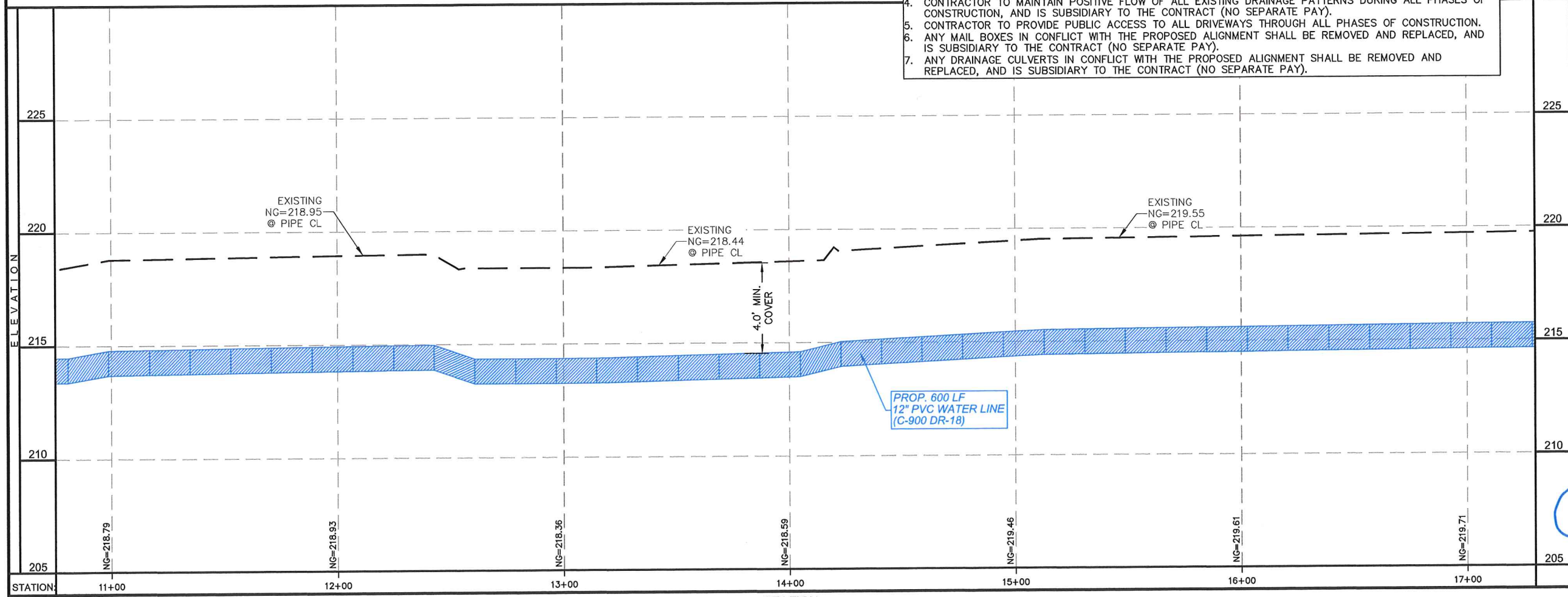
LOT 18, BLOCK 7
 TEXAN GARDENS SUBDIVISION



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PLAN VIEW
 SCALE: 1"=50'

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



STATE OF TEXAS
 JOSE E. SAENZ
 62553
 PROFESSIONAL ENGINEER

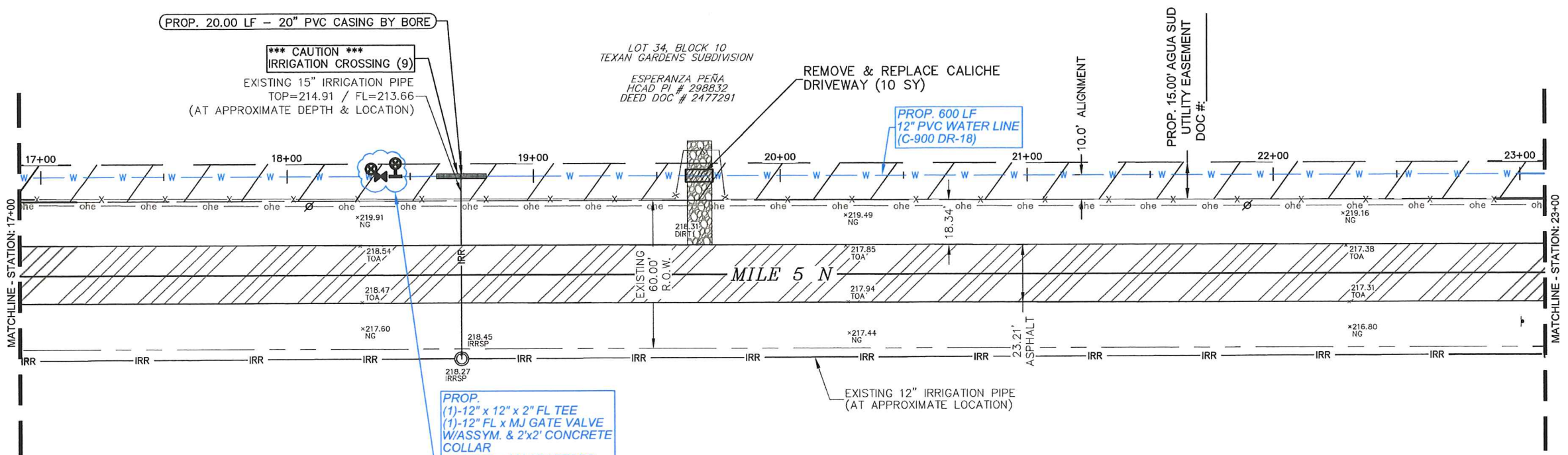
DATE: 01/09/19

SCALE: SEE PLAN
 DRAWN BY: LALO CHAPA
 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET:



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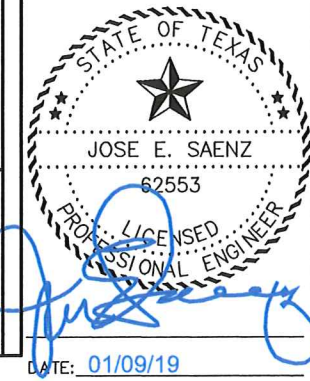
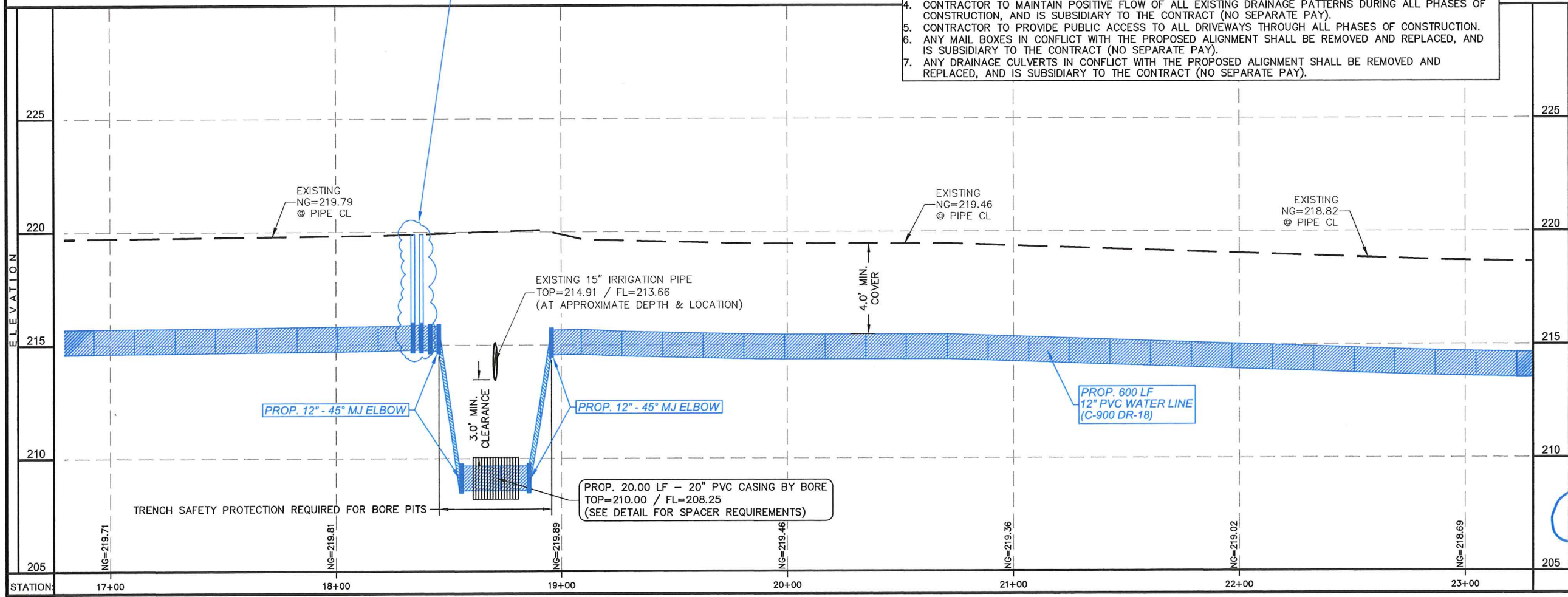
MILE 5 N - PLAN & PROFILE STA: 17+00 - 23+00
 AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS



PROP.
 (1) 12" x 12" x 2" FL TEE
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 W/ASSYM. & 2'x2' CONCRETE
 COLLAR
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 COLLAR
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 ASSYM. WITH VAULT

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PLAN VIEW
 SCALE: 1"=50'
 PROFILE VIEW
 HORIZONTAL SCALE: 1"=50'
 VERTICAL SCALE: 1"=5'



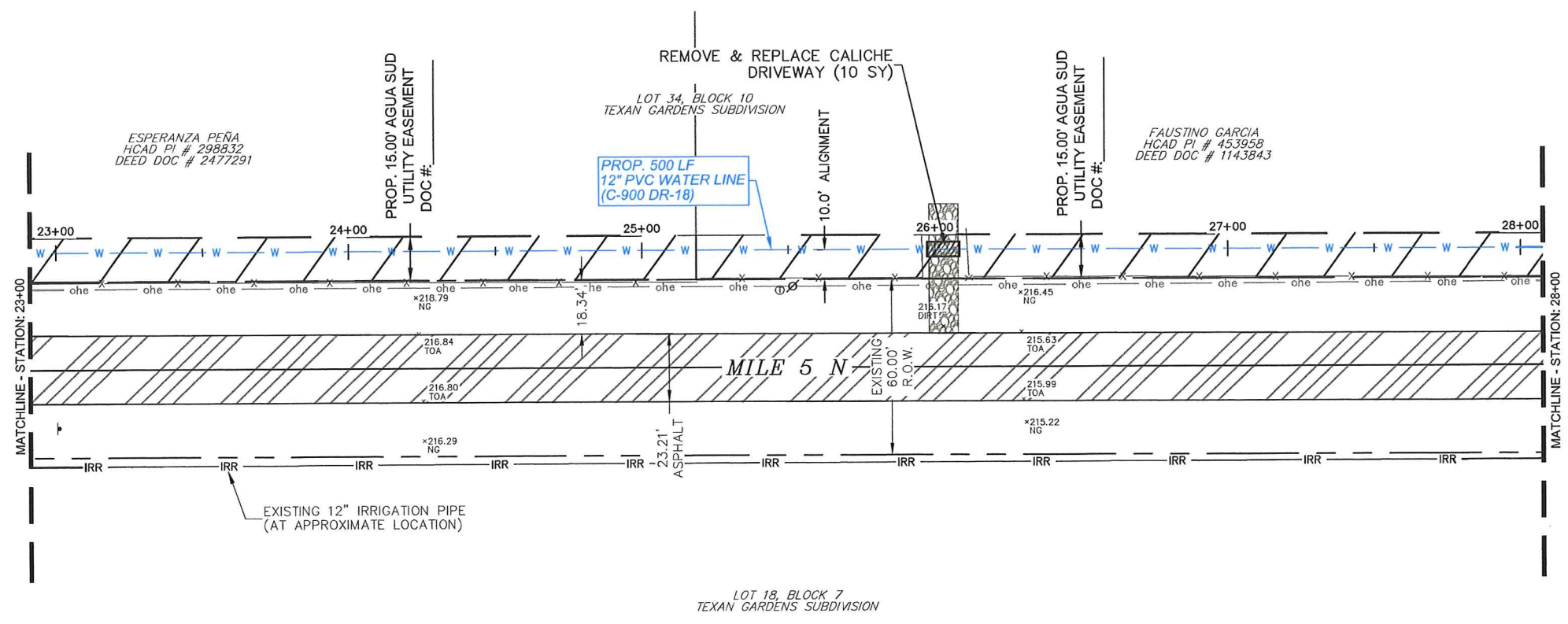
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 DRAWN BY: LALO CHAPA
 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET:

DATE: 01/09/19 22



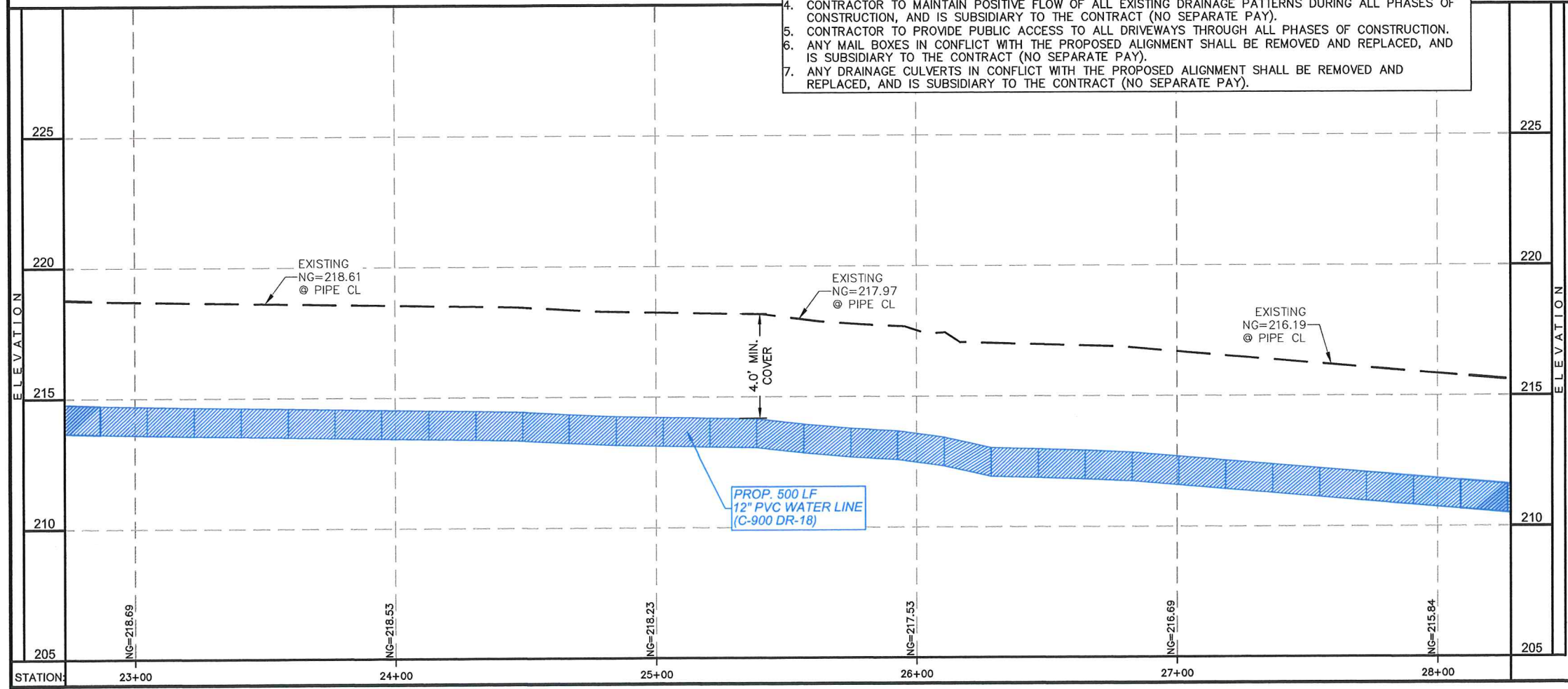
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 FIRM REGISTRATION # F-17262 (TEXAS)

MILE 5 N - PLAN & PROFILE STA: 23+00 - 28+00
 AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS



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PLAN VIEW
 SCALE: 1"=50'
 PROFILE VIEW
 HORIZONTAL SCALE: 1"=50'
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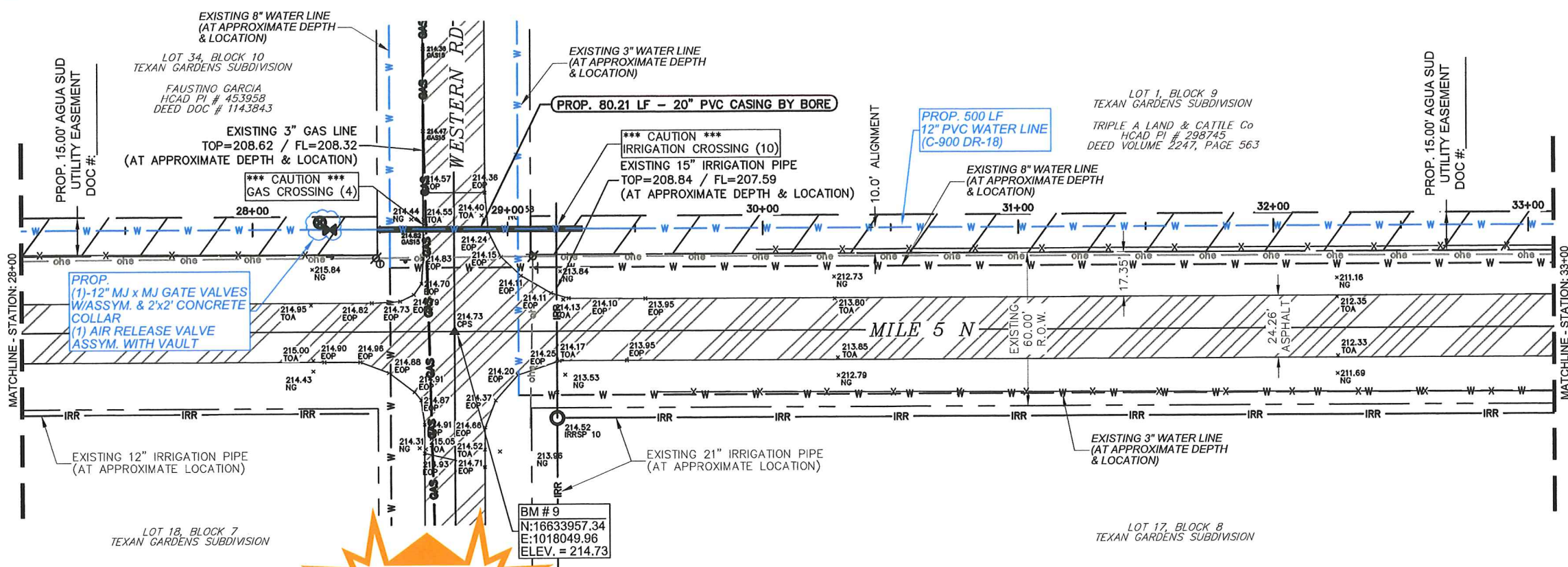


STATE OF TEXAS
 JOSE E. SAENZ
 62553
 PROFESSIONAL ENGINEER
 DATE: 01/09/19

SCALE: SEE PLAN
 DRAWN BY: LALO CHAPA
 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET: 23



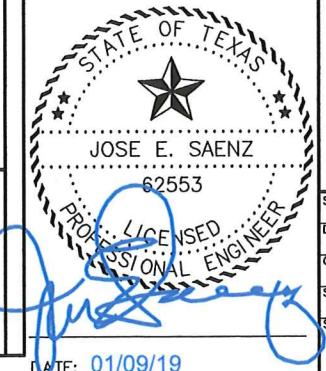
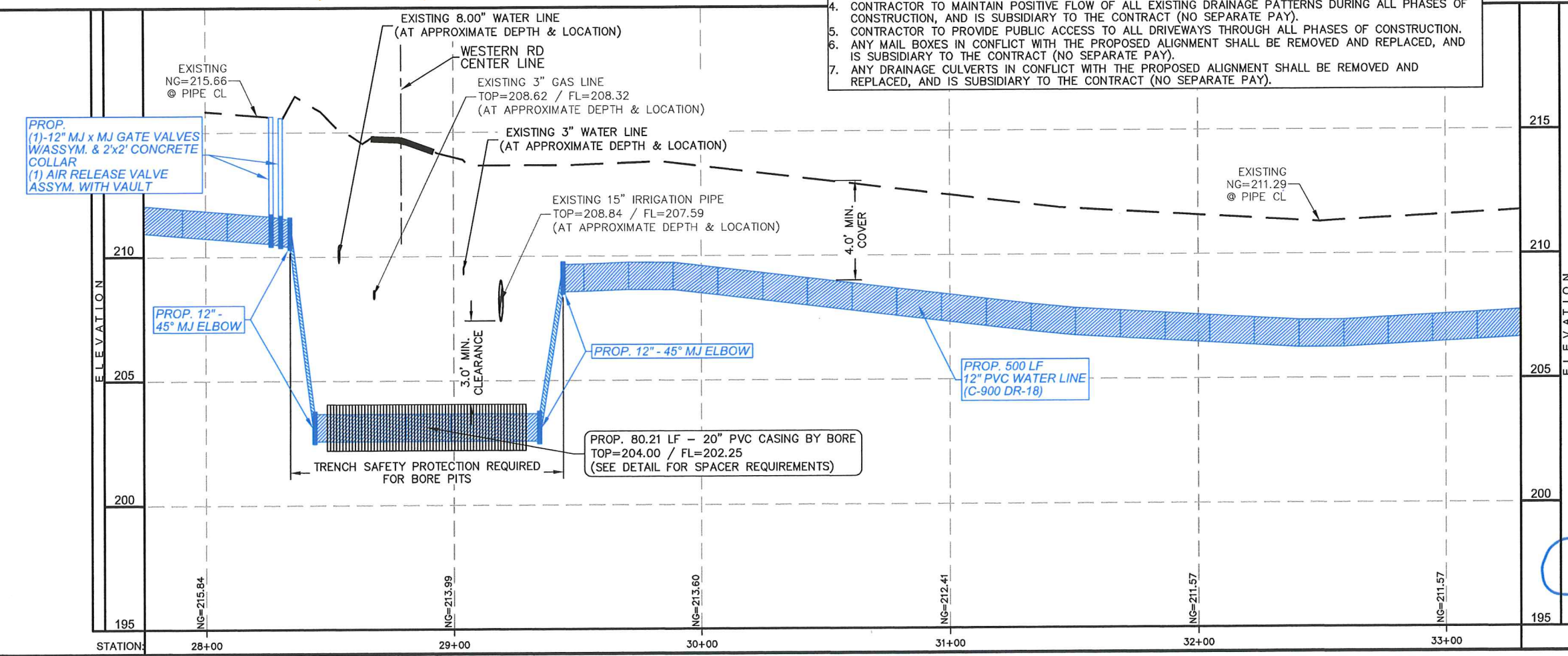
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PLAN VIEW
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PROFILE VIEW
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 VERTICAL SCALE: 1"=5'



MILE 5 N - PLAN & PROFILE STA: 28+00 - 33+00

AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS

SCALE: SEE PLAN
 DRAWN BY: LALO CHAPA
 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET:

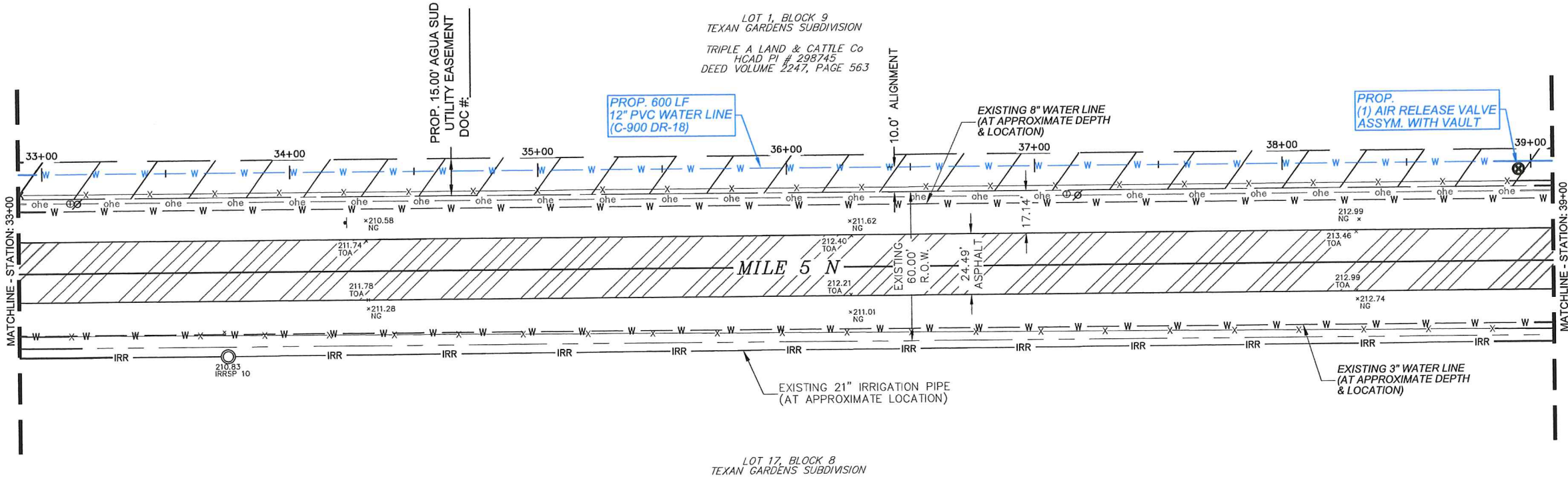
DATE: 01/09/19



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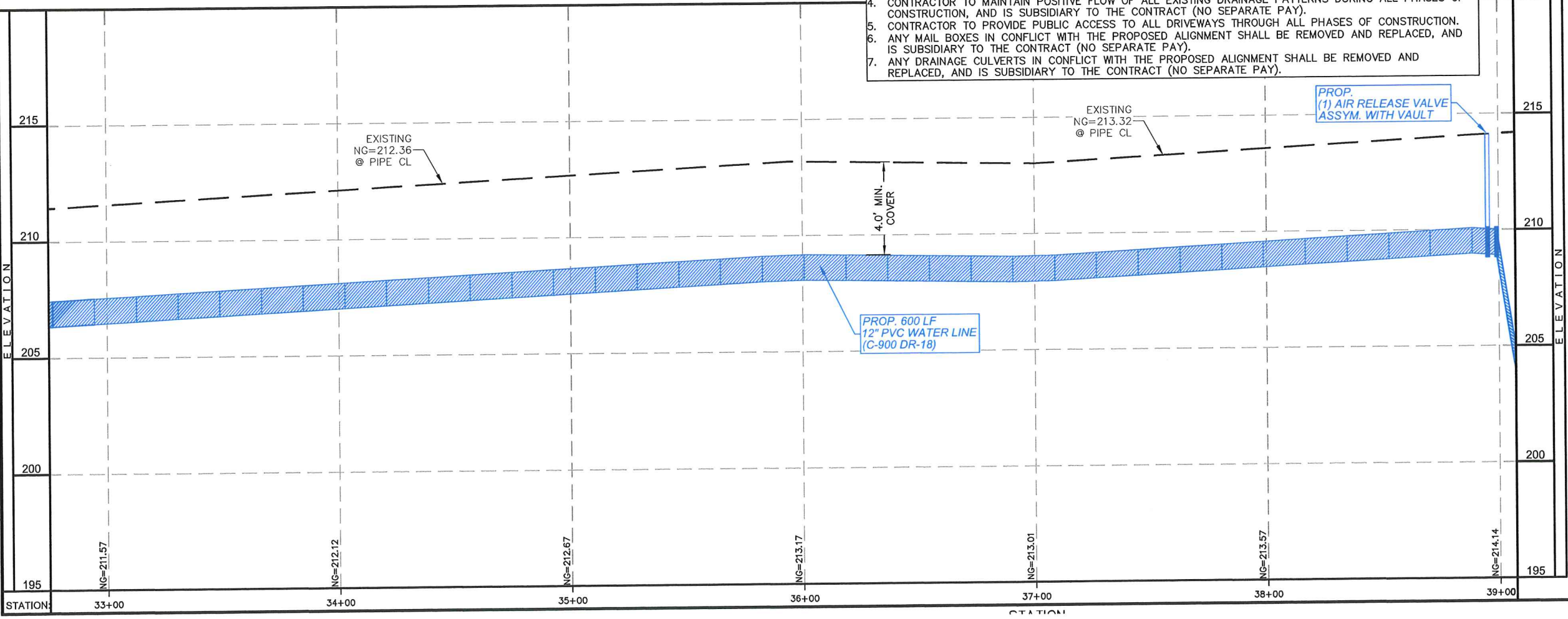
MILE 5 N - PLAN & PROFILE STA: 33+00 - 39+00

AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS



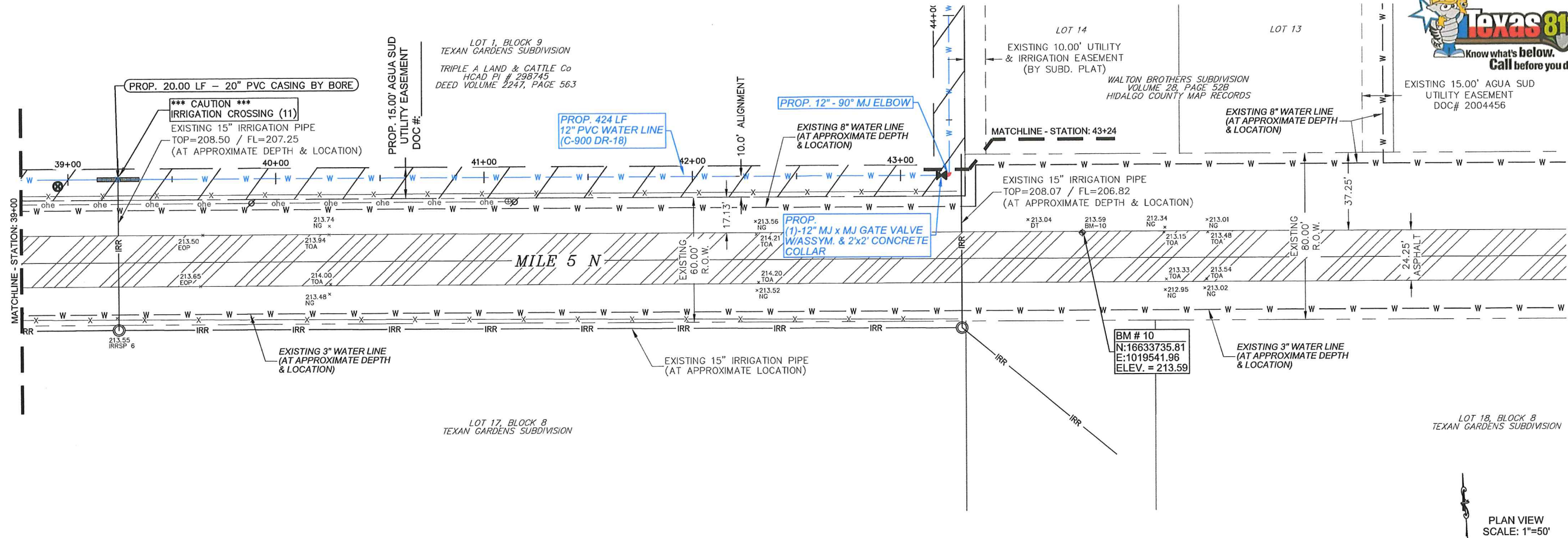
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 SCALE: 1"=50'
 PROFILE VIEW
 HORIZONTAL SCALE: 1"=50'
 VERTICAL SCALE: 1"=5'

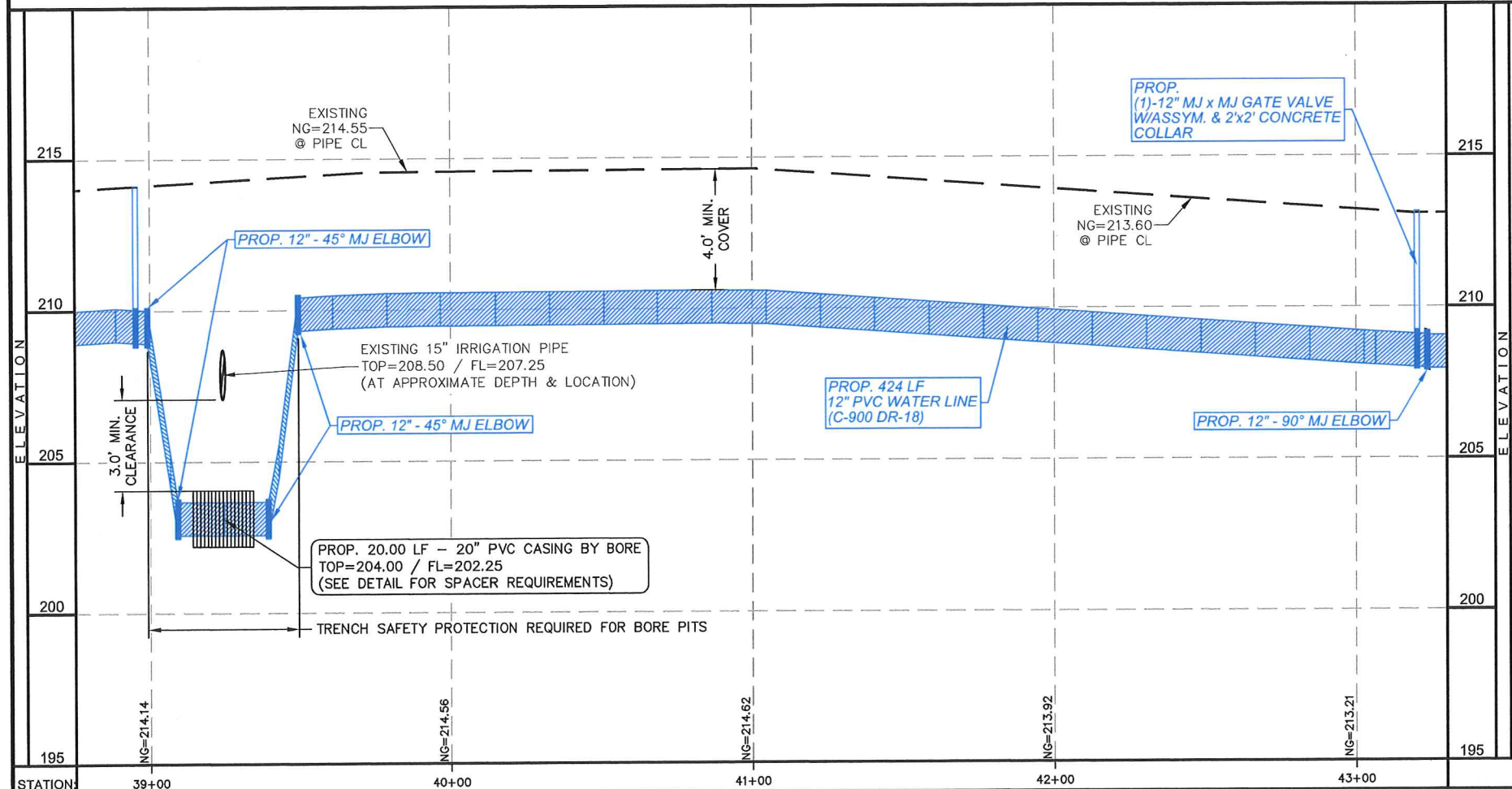


STATE OF TEXAS
 JOSE E. SAENZ
 62553
 LICENSED PROFESSIONAL ENGINEER
 DATE: 01/09/19

SCALE: SEE PLAN
 DRAWN BY: LALO CHAPA
 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET: 25

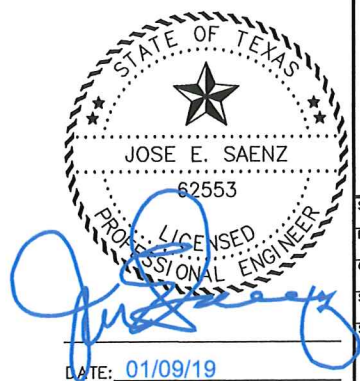


PLAN VIEW
SCALE: 1"=50'



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

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 4. CONTRACTOR TO MAINTAIN POSITIVE FLOW OF ALL EXISTING DRAINAGE PATTERNS DURING ALL PHASES OF CONSTRUCTION, AND IS SUBSIDIARY TO THE CONTRACT (NO SEPARATE PAY).
 5. CONTRACTOR TO PROVIDE PUBLIC ACCESS TO ALL DRIVEWAYS THROUGH ALL PHASES OF CONSTRUCTION, AND IS SUBSIDIARY TO THE CONTRACT (NO SEPARATE PAY).
 6. ANY MAIL BOXES IN CONFLICT WITH THE PROPOSED ALIGNMENT SHALL BE REMOVED AND REPLACED, AND IS SUBSIDIARY TO THE CONTRACT (NO SEPARATE PAY).
 7. ANY DRAINAGE CULVERTS IN CONFLICT WITH THE PROPOSED ALIGNMENT SHALL BE REMOVED AND REPLACED, AND IS SUBSIDIARY TO THE CONTRACT (NO SEPARATE PAY).



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956.239.2984 | eddie@csj.com
FIRM REGISTRATION # F-17262 (TEXAS)

MILE 5 N - PLAN & PROFILE STA: 39+00 - 43+24
AGUA SUD
WESTERN BOOSTER STATION
WATERLINE PROJECT
MISSION, TEXAS

SCALE: SEE PLAN
DRAWN BY: LALO CHAPA
CHECKED BY: JOSE E. SAENZ
SURVEYED BY: JOSE M. GONZALEZ
SHEET: 26

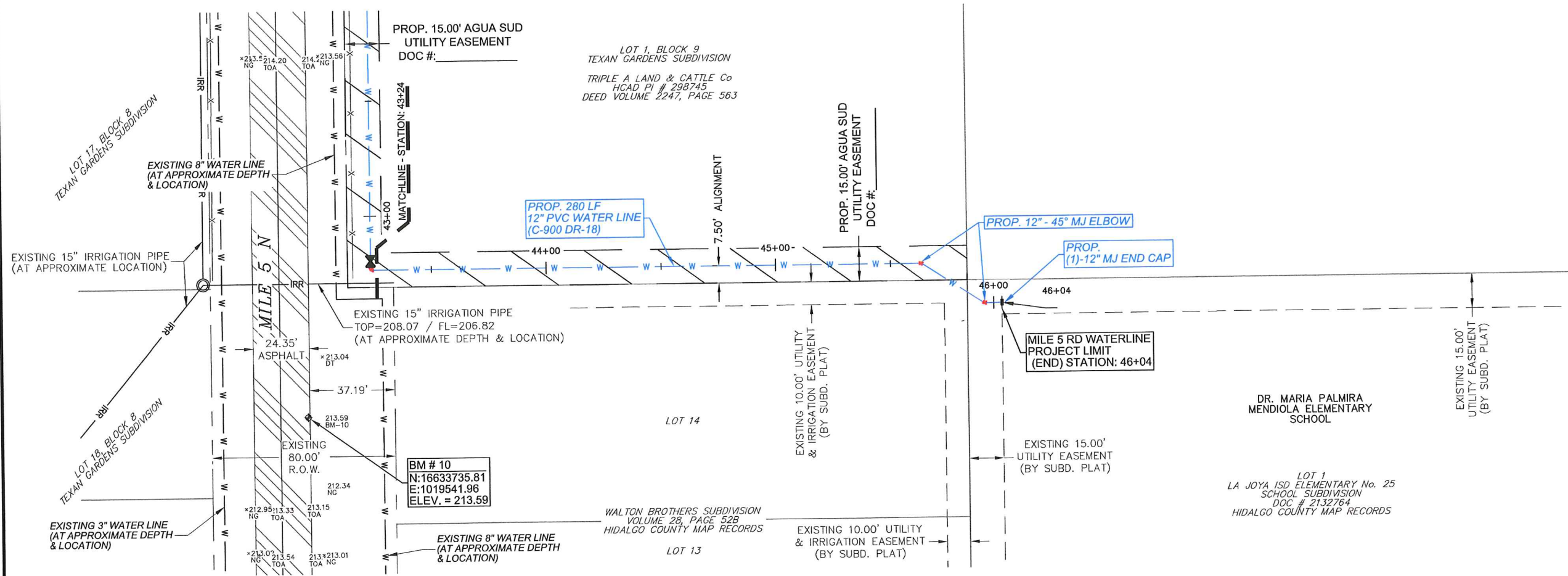
DATE: 01/09/19



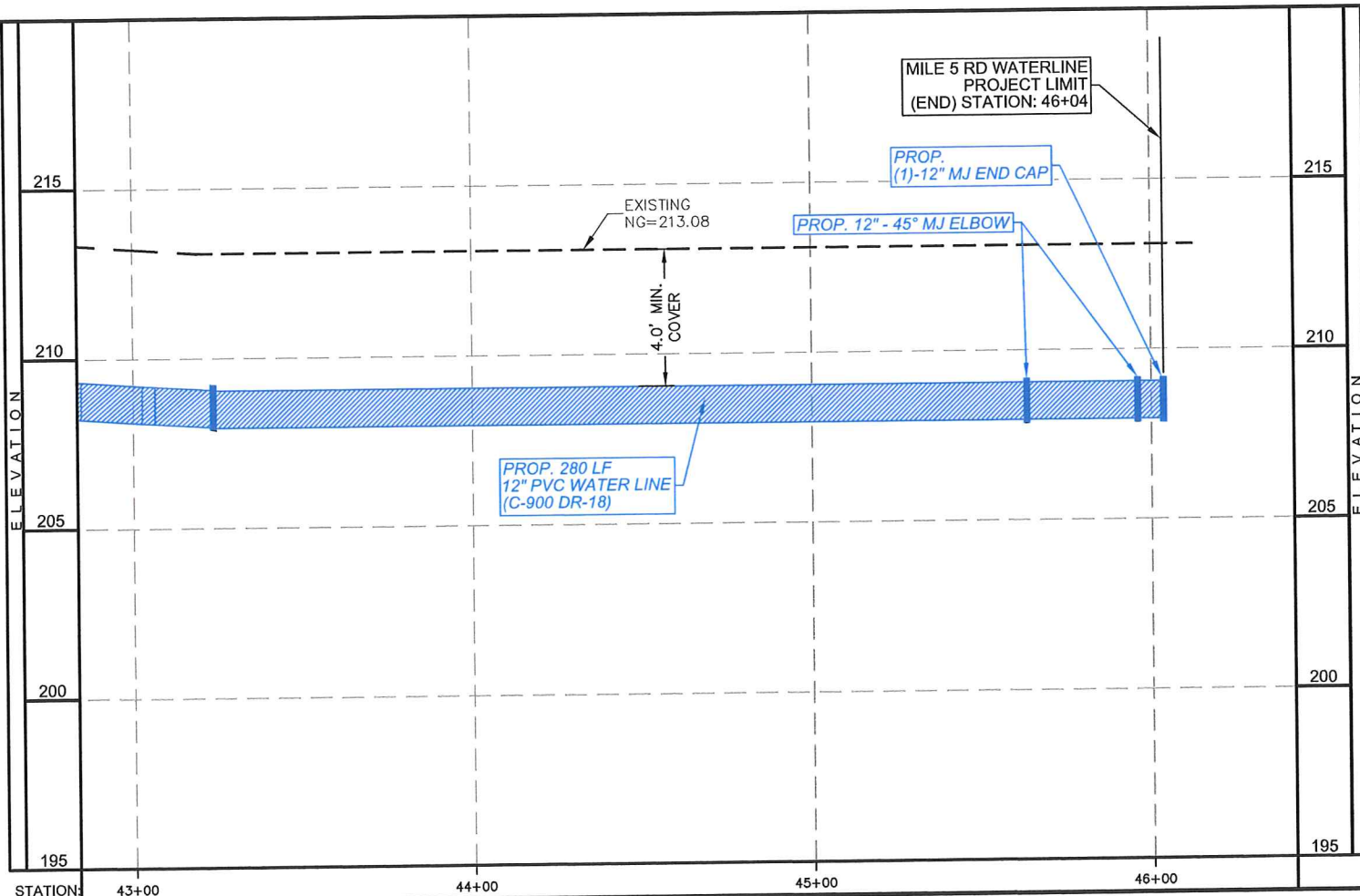
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MILE 5 N - PLAN & PROFILE STA: 43+24 - 46+04

AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS



PLAN VIEW
 SCALE: 1"=50'



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

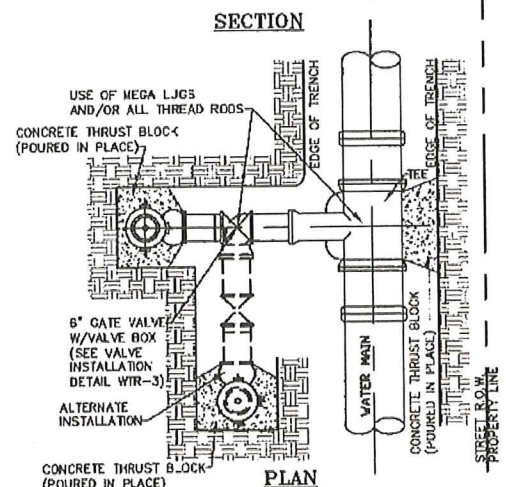
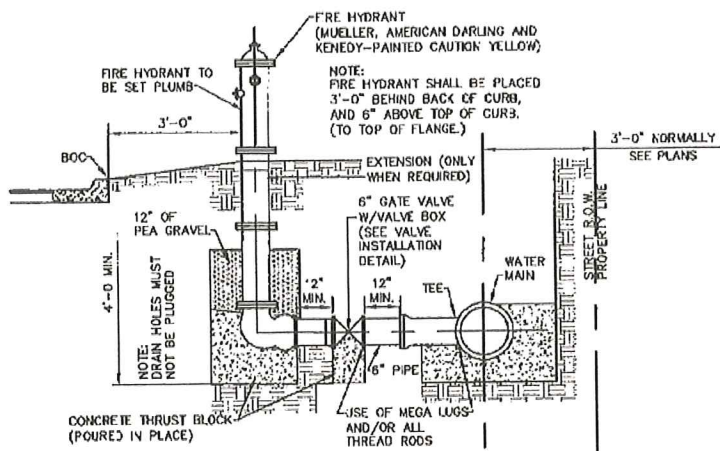
NOTES:

1. CAUTION!!! GAS SERVICE AND MAIN LINES THROUGHOUT THE PROPOSED ALIGNMENT TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO DIGGING, AND/OR INSTALLATION OF PROPOSED WATERLINES.
2. CONTRACTOR SHALL NOTIFY GAS COMPANY PRIOR TO ANY EXCAVATION WITHIN TWENTY FEET OF GAS LINES.
3. CONTRACTOR SHALL NOT DO ANY EXCAVATION WITHIN TWENTY FEET OF GAS LINES WITHOUT THE GAS COMPANY'S REPRESENTATIVE PRESENT ON-SITE.
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5. CONTRACTOR TO PROVIDE PUBLIC ACCESS TO ALL DRIVEWAYS THROUGH ALL PHASES OF CONSTRUCTION. IS SUBSIDIARY TO THE CONTRACT (NO SEPARATE PAY).
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7. ANY DRAINAGE CULVERTS IN CONFLICT WITH THE PROPOSED ALIGNMENT SHALL BE REMOVED AND REPLACED, AND IS SUBSIDIARY TO THE CONTRACT (NO SEPARATE PAY).

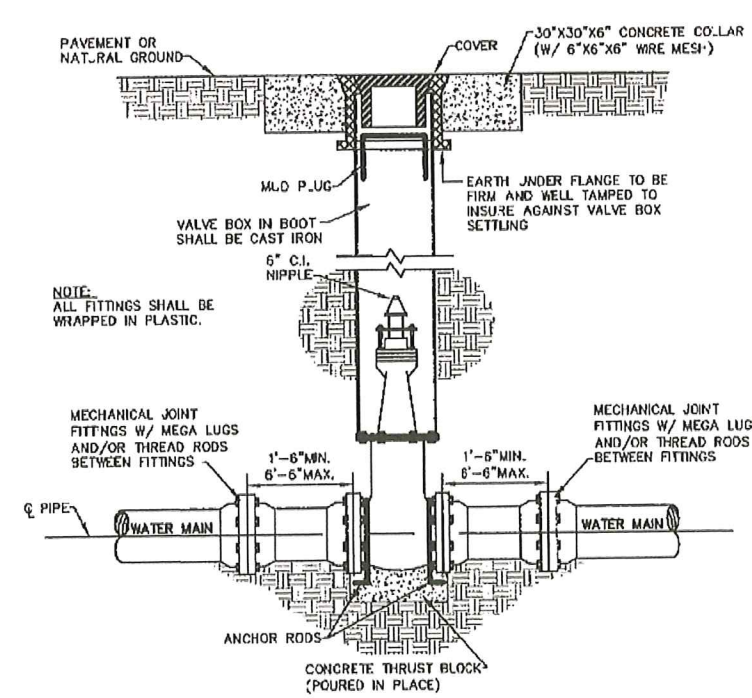


DATE: 01/09/19

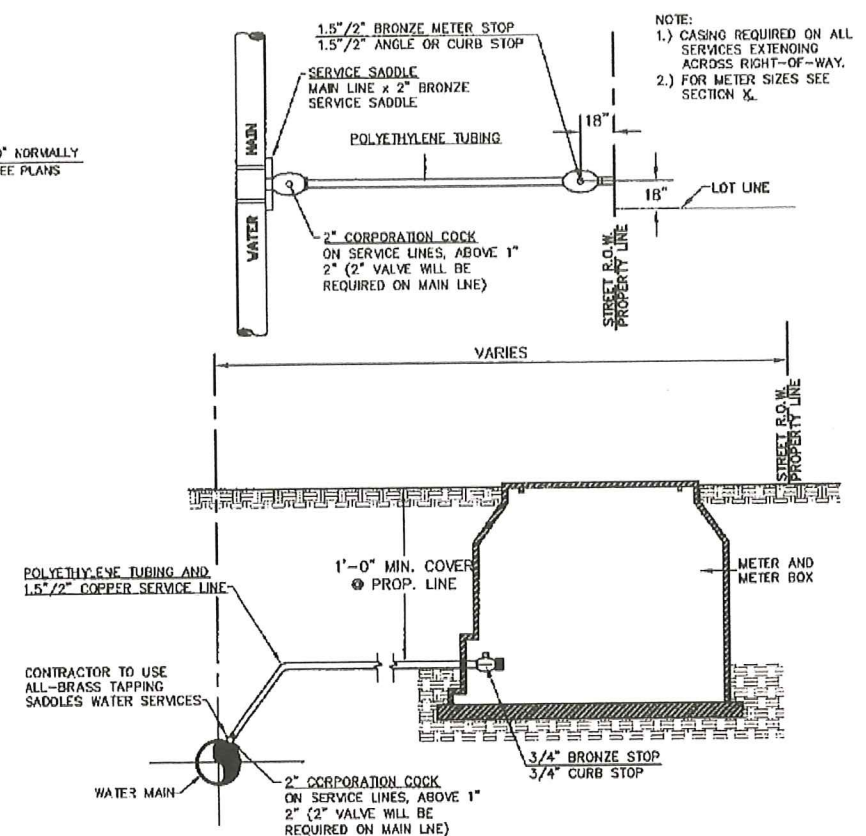
SCALE: SEE PLAN
 DRAWN BY: LALO CHAPA
 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET:



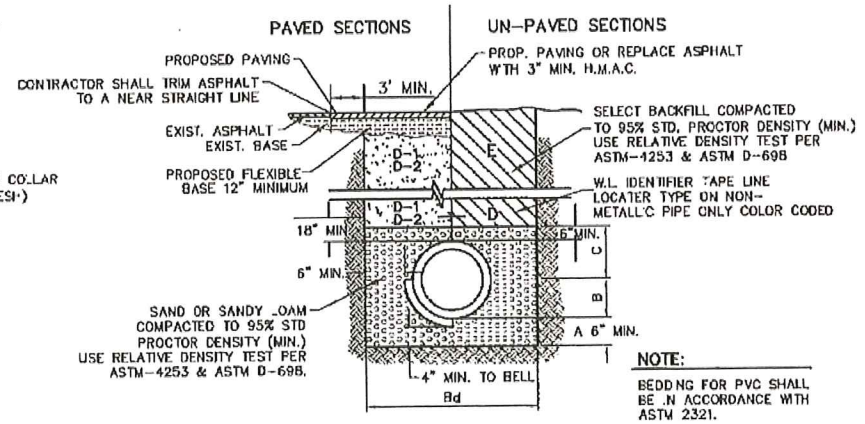
FIRE HYDRANT INSTALLATION DETAIL
N.T.S.



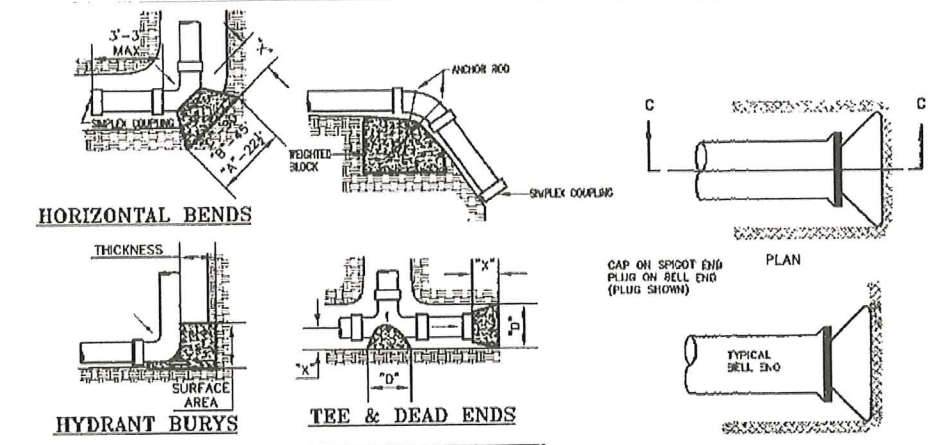
GATE VALVE & BOX INSTALLATION DETAIL
N.T.S.



SINGLE WATER SERVICE CONNECTION DETAIL
N.T.S.



TRENCH BEDDING (WATER) DETAIL
N.T.S.



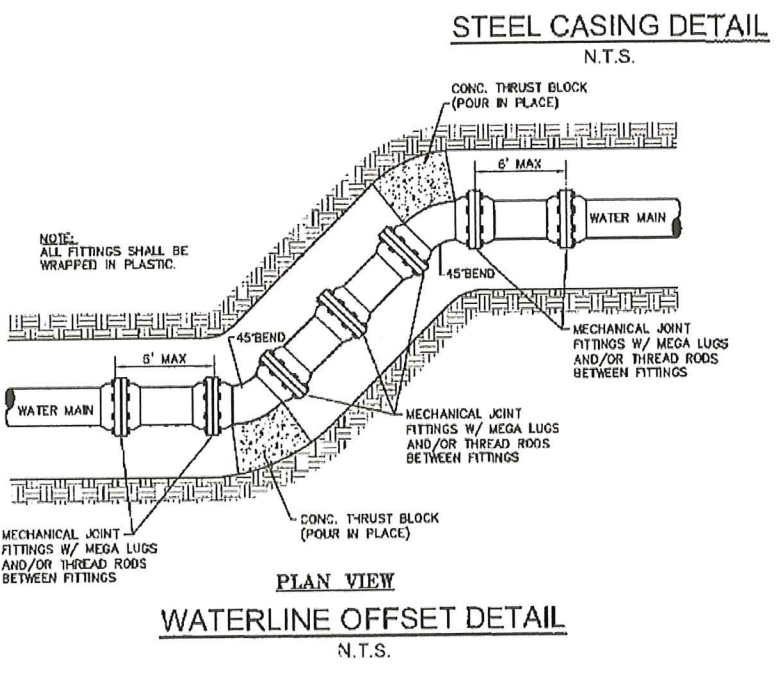
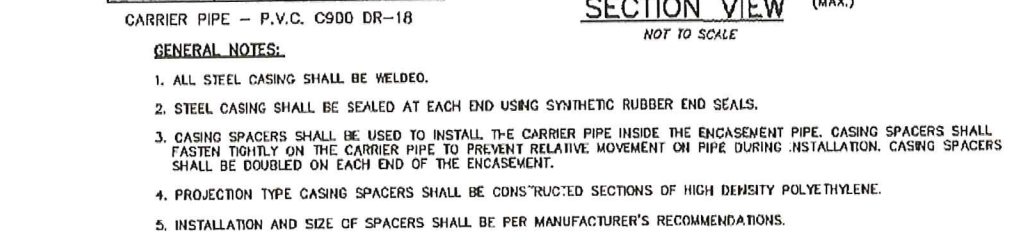
HORIZONTAL BLOCKING TABLE

PIPE SIZE	T-4 DIA. FT.	22 1/2 DEGREES		45 DEGREES		90 DEGREES		TEE & FLUG	
		"A"	SPL AREA	"B"	MIN. AREA	"C"	MIN. AREA	"D"	SPL AREA
4"	1.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.98
6"	1.50	1.00	1.00	1.14	1.30	1.55	2.40	1.30	1.70
8"	1.50	1.08	1.18	1.52	2.31	2.07	4.27	1.74	3.02
10"	1.50	1.35	1.84	1.90	3.01	2.55	8.85	2.17	4.71
12"	1.50	1.63	2.65	1.98	3.16	3.10	9.60	2.81	6.73

TABLE OF CASING SIZES

CARRIER PIPE SIZE	CASING SIZE (INSIDE DIA.)	CASING MINIMUM WALL THICKNESS
4"	3"-10"	0.25"
6"	10"-12"	0.25"
8"	14"-16"	0.25"
10"	18"	0.25"
12"	20"	0.25"
16"	26"	0.4375" (7/16")

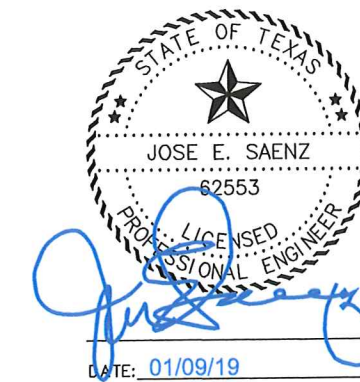
CARRIER PIPE - P.V.C. C900 DR-18



WATERLINE OFFSET DETAIL
N.T.S.

GENERAL NOTES:

- 1.) THE LOCATION OF THRUST BLOCKS DEPENDS UPON THE DIRECTION OF THRUST AND TYPE OF FITTINGS.
- 2.) THRUST BLOCK CALCULATIONS ARE BASED ON A WATER LINE PRESSURE OF 150 P.S.I. AND AN ALLOWABLE SOIL BEARING VALUE OF 2,500 POUNDS PER SQUARE FOOT.
- 3.) "C" DIMENSIONS SHALL BE LARGE ENOUGH TO MAKE ANGLE θ EQUAL TO LARGER THAN 45°.
- 4.) ANGLE θ SHALL BE EQUAL TO OR LARGER THAN 45°.
- 5.) ALL FITTINGS TO BE WRAPPED IN PLASTIC.



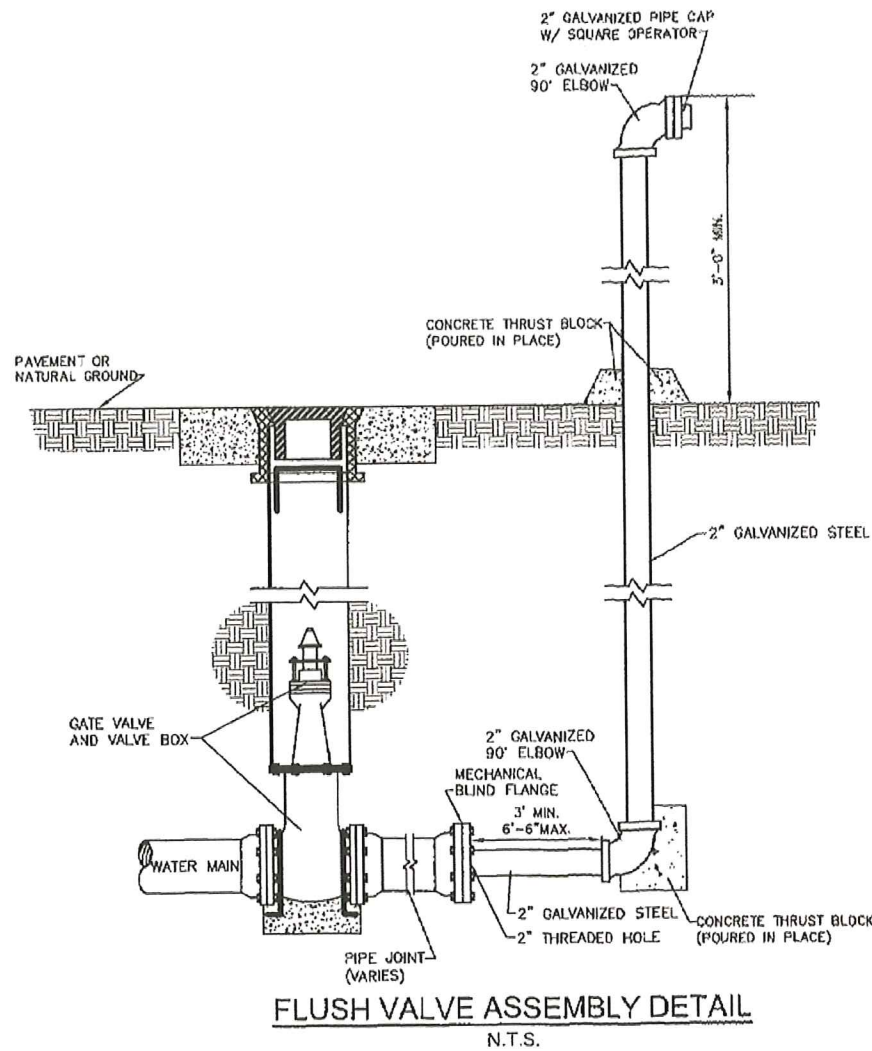
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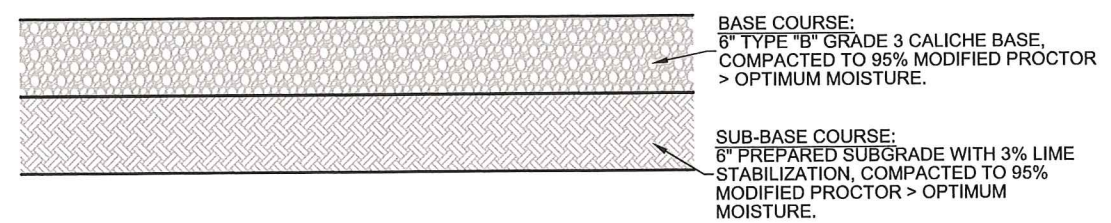
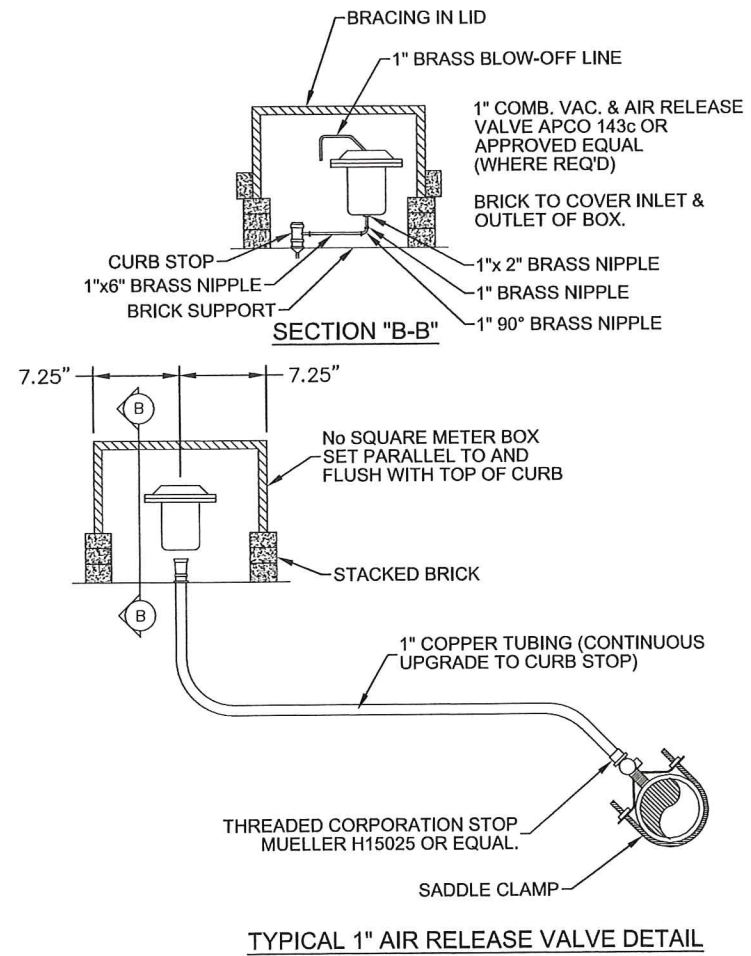
TYPICAL WATER SYSTEM DETAILS

AGUA SUD
WESTERN BOOSTER STATION
WATERLINE PROJECT
MISSION, TEXAS

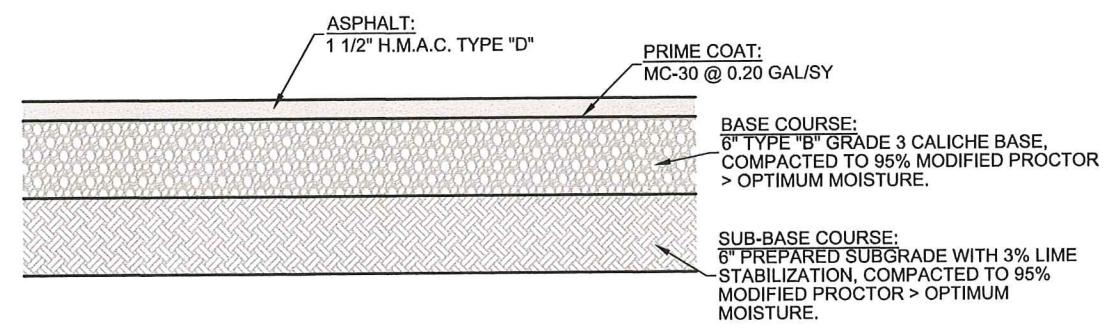
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DRAWN BY: LALO CHAPA
CHECKED BY: JOSE E. SAENZ
SURVEYED BY: JOSE M. GONZALEZ
SHEET: 28



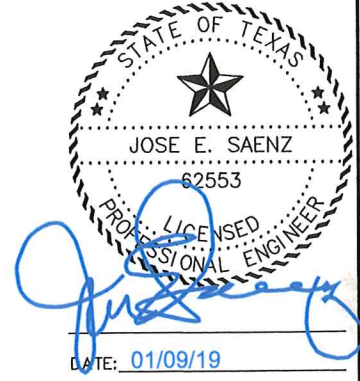
CONTRACTOR SHALL TRIM ASPHALT TO A NEAR STRAIGHT LINE



TYPICAL CALICHE DRIVEWAY CROSS-SECTION DETAIL



TYPICAL ASPHALT DRIVEWAY CROSS-SECTION DETAIL



SCALE: NOT TO SCALE
 DRAWN BY: LALO CHAPA
 CHECKED BY: JOSE E. SAENZ
 SURVEYED BY: JOSE M. GONZALEZ
 SHEET:

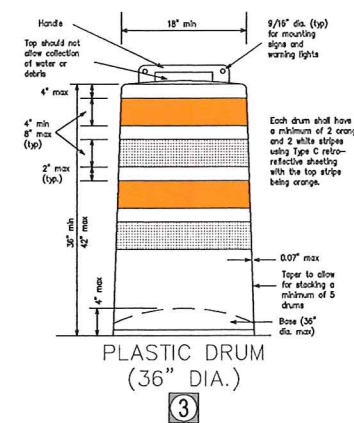
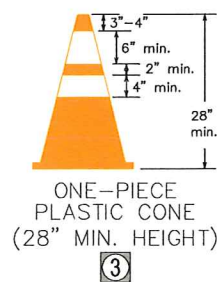
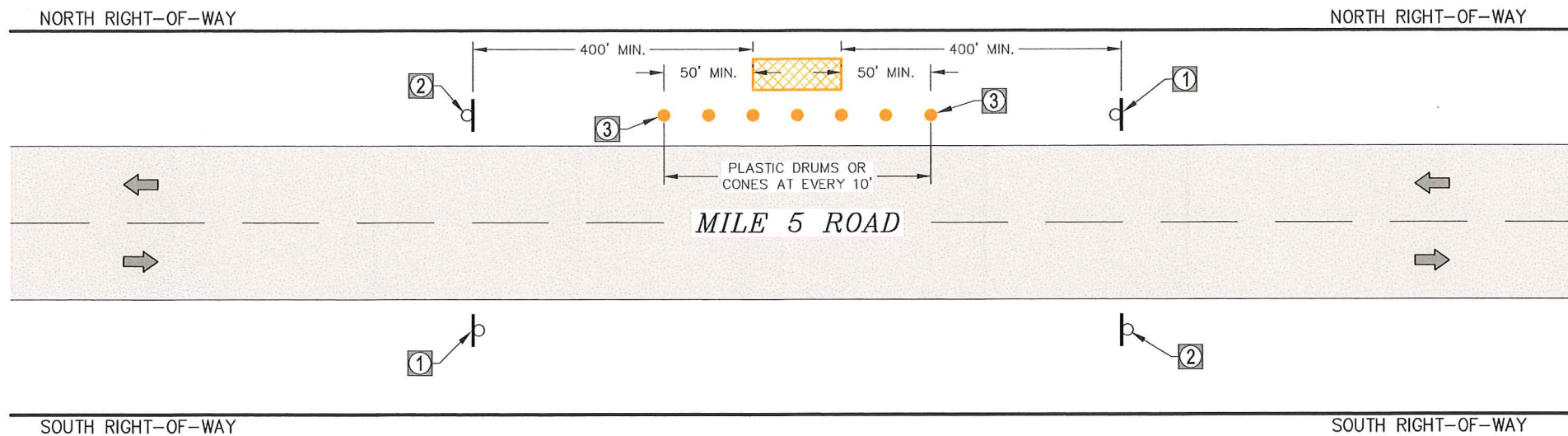
DATE: 01/09/19

TYPICAL WATER SYSTEM DETAILS

AGUA SUD
 WESTERN BOOSTER STATION
 WATERLINE PROJECT
 MISSION, TEXAS

C S J GROUP

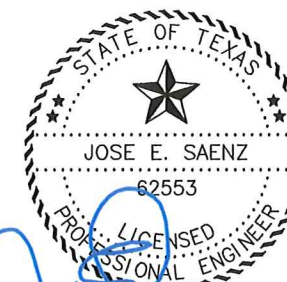
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 FIRM REGISTRATION # F-17262 (TEXAS)



LEGEND	
Ⓝ	SIGN NUMBER
⌚	BARRICADE
Ⓜ	SIGN W/POST
●	PLASTIC DRUM OR CONE
Ⓜ	FLAGGER
➡	TRAFFIC FLOW
▨	WORK AREA

GENERAL NOTES:

1. ALL SIGNS, PLASTIC DRUMS, AND BARRICADES SHALL BE IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) 2014.
2. REFER TO TxDOT "BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES STANDARD PLANS" AND TO "TRAFFIC CONTROL PLAN STANDARD PLANS" FOR ADDITIONAL REQUIREMENTS AND SPECIFICATIONS.



DATE: 01/09/19

MILE 5 RD

TRAFFIC CONTROL PLAN (TCP)

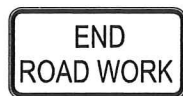
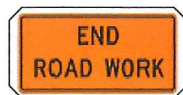
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AGUA SUD
WESTERN BOOSTER STATION
WATERLINE PROJECT
MISSION, TEXAS

SCALE: NOT TO SCALE
DRAWN BY: LALO CHAPA
CHECKED BY: JOSE E. SAENZ
SURVEYED BY: JOSE M. GONZALEZ
SHEET:

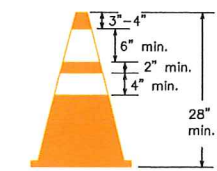
GENERAL NOTES:

1. ALL SIGNS, PLASTIC DRUMS, AND BARRICADES SHALL BE IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) 2014.
2. REFER TO TxDOT "BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES STANDARD PLANS" AND TO "TRAFFIC CONTROL PLAN STANDARD PLANS" FOR ADDITIONAL REQUIREMENTS AND SPECIFICATIONS.

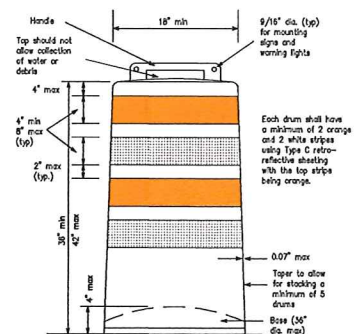


CW20-1D
(48"x48")

G20-2A
(48"x24")

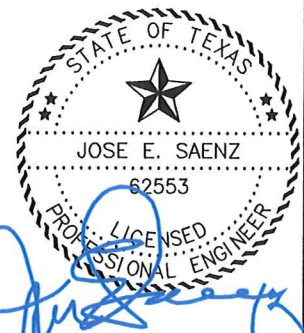
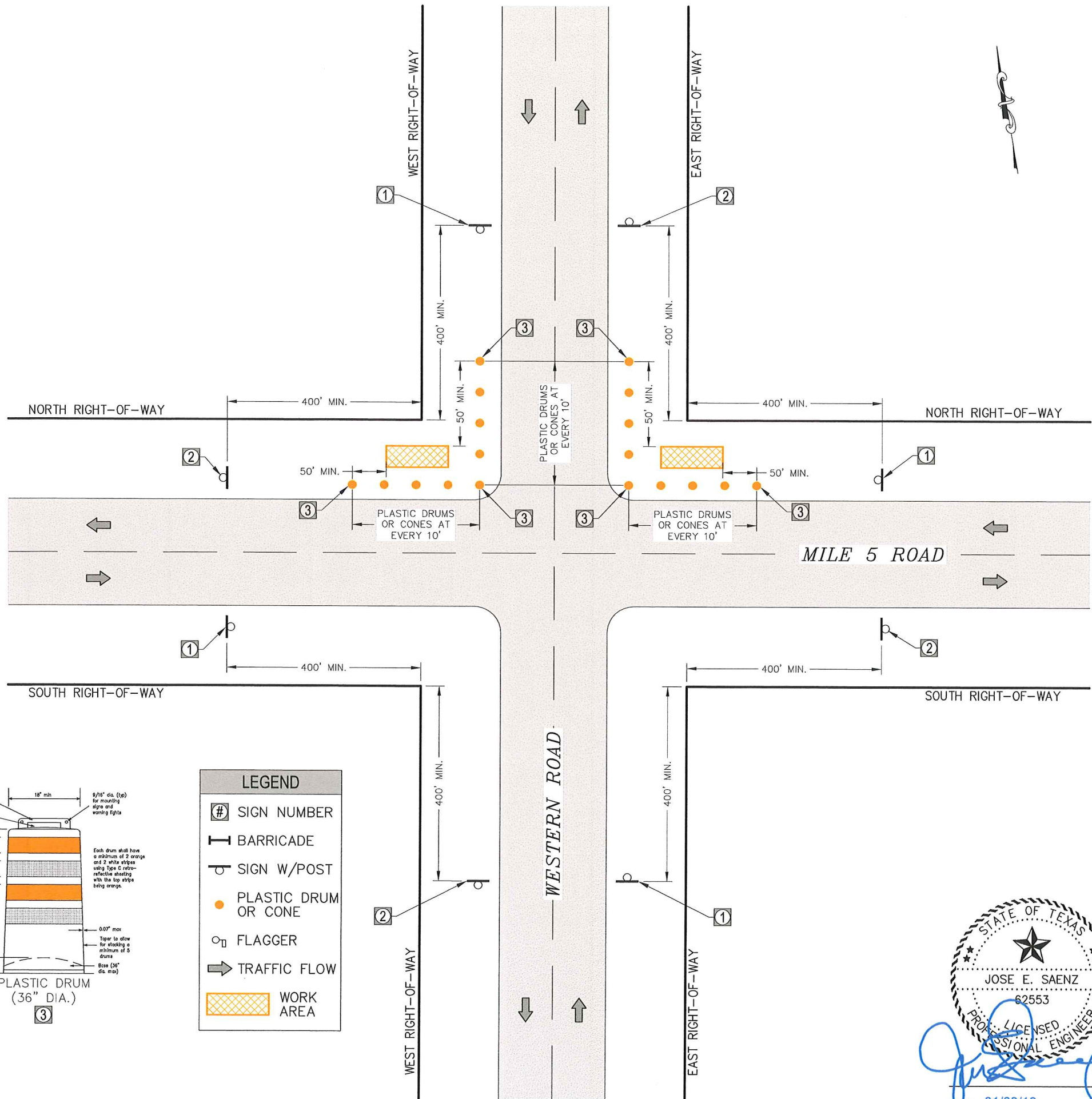


ONE-PIECE
PLASTIC CONE
(28" MIN. HEIGHT)



PLASTIC DRUM
(36" DIA.)

LEGEND	
#	SIGN NUMBER
—	BARRICADE
○	SIGN W/POST
●	PLASTIC DRUM OR CONE
⊕	FLAGGER
→	TRAFFIC FLOW
▨	WORK AREA



DATE: 01/09/19

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FIRM REGISTRATION # F-17262 (TEXAS)

WESTERN RD & MILE 5 RD INTERSECTION
TRAFFIC CONTROL PLAN (TCP)
AGUA SUD
WESTERN BOOSTER STATION
WATERLINE PROJECT
MISSION, TEXAS

SCALE: NOT TO SCALE
DRAWN BY: LALO CHAPA
CHECKED BY: JOSE E. SAENZ
SURVEYED BY: JOSE M. GONZALEZ
SHEET:



CERTIFICATE OF PROPERTY INSURANCE

DATE (MM/DD/YYYY)
07/18/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

If this certificate is being prepared for a party who has an insurable interest in the property, do not use this form. Use ACORD 27 or ACORD 28.

PRODUCER Macchia General Agency 6410 Southwest Blvd Suite 222 Fort Worth TX 76109	CONTACT NAME: David Macchia	
	PHONE (A/C, No, Ext): (817) 246-4640 FAX (A/C, No): (817) 246-4696	
	E-MAIL ADDRESS: dmacchia@macchiaga.com	
	PRODUCER CUSTOMER ID: 42263	
INSURED Agua Special Utility District P.O. Box 4379 Mission TX 78573- () -	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A: Philadelphia Insurance Co	
	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

LOCATION OF PREMISES / DESCRIPTION OF PROPERTY (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	COVERED PROPERTY	LIMITS
A	<input checked="" type="checkbox"/> PROPERTY CAUSES OF LOSS: BASIC, BROAD, SPECIAL, EARTHQUAKE, WIND, FLOOD DEDUCTIBLES: BUILDING 1,000, CONTENTS Theft, 5,000,000, 1%, 5,000,000	1811546-626735	04/26/2018	04/26/2019	<input type="checkbox"/> BUILDING <input type="checkbox"/> PERSONAL PROPERTY <input type="checkbox"/> BUSINESS INCOME <input checked="" type="checkbox"/> EXTRA EXPENSE <input checked="" type="checkbox"/> RENTAL VALUE <input type="checkbox"/> BLANKET BUILDING <input type="checkbox"/> BLANKET PERS PROP <input checked="" type="checkbox"/> BLANKET BLDG & PP	\$ \$ \$ \$ 500,000 \$ 100,000 \$ \$ \$ 54,503,112 \$ \$
A	<input checked="" type="checkbox"/> INLAND MARINE CAUSES OF LOSS: NAMED PERILS	TYPE OF POLICY POLICY NUMBER 1811546-626735	04/26/2018	04/26/2019	<input checked="" type="checkbox"/> Contractors Equip <input checked="" type="checkbox"/> Deductible	\$ 358,954 \$ 500 \$ \$
A	<input checked="" type="checkbox"/> CRIME TYPE OF POLICY	1811546-626735	04/26/2018	04/26/2019	<input checked="" type="checkbox"/> Employee Theft <input checked="" type="checkbox"/> Forgery & Alteration <input checked="" type="checkbox"/> Inside Prem-Theft/MS	\$ 300,000 \$ 100,000 \$ 50,000
	<input type="checkbox"/> BOILER & MACHINERY / EQUIPMENT BREAKDOWN					\$ \$ \$

SPECIAL CONDITIONS / OTHER COVERAGES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER	CANCELLATION	No holders
	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.	
	AUTHORIZED REPRESENTATIVE	