



W31: IH-10 Boerne Stage to Old Fredericksburg Sanitary Sewer

Solicitation Number: CO-00068

Job No.: 09-2502

ADDENDUM 2

October 4, 2016

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.

CHANGES TO THE DRAWINGS

1. On Sheet G-2, quantities for 8-inch PVC pipe, 42"x36" T-BASE MH, and 36-inch Hobas pipe were updated.

The quantities were revised as follows:

- The quantity of Item No. 848.8PVC was increased from 20 to 30
- The quantity of Item No. 853.T42 was decreased from 7 to 6
- The quantity of Item No. SS-5001-36.10-14 was increased from 1679 to 1713

The revised Sheet G-2 is issued with this addendum.

2. The following notes have been added to Sheet G-4:

"19. This project is subject to the American Iron and Steel (AIS) requirements of Section 608 of the Federal Water Pollution Control Act. All iron and steel products for construction, alteration, maintenance, or repairs incorporated in these plans must be produced in the United States."

20. Per the Categorical Exclusion issued on March 4, 2016, conditions pertaining to this project apply. These include: Prior to construction activities, SAWS shall obtain a Floodplain Management Development Permit and maintain compliance with its special provisions regarding construction activities located in the 100-year floodplain zone."

The revised Sheet G-4 is issued with this addendum.

3. The following note was added to Sheets C-9, C-10, C-12, C-13, C-14, C-15, C-45, and C-46:

"The Contractor shall provide the property owner a written notice of initial entry 10 days prior to start construction within their property."

The revised sheets are issued with this addendum.

4. On Sheet C-13, in the quantities table, Item No. SS-5001-42.10-14 should be SS-5001-36.10-14 and the Description should read 36-inch Hobas SN72, OPEN CUT (10' TO 14' DEPTH).

The revised Sheet C-13 issued with this addendum also includes this change.

5. On Sheet C-45, the following note was added:

“MH A31 shall be temporarily plugged until the downstream section is completed and active.”

The revised Sheet C-45 issued with this addendum also includes this change.

6. On Sheet C-46, the following note was added:

“The existing 24-inch line discharging into the Falcon Lift Station shall remain active until the lift station is abandoned. The existing 24-inch line to be plugged once lift station is abandoned (NSPI).”

The revised Sheet C-46 issued with this addendum also includes this change.

7. On Sheets C-40 and C-41, the notes pertaining to the concrete wall removals have been changed to read:

“Concrete wall, depth unknown, to be removed as necessary to install pipe with a minimum of 12 inches of clearance from pipe (NSPI)”

The revised Sheets C-40 and C-41 are issued with this addendum.

8. On Sheet C-48, the note about grouting annular space has been removed and the MH opening has been changed from 36” to 30”.

The revised Sheet C-48 is issued with this addendum.

CHANGES TO THE SPECIFICATIONS

1. The cover sheet of the Contract Documents has been modified to include the design firm’s Logo and Firm Registration Number.

The revised cover sheet is included with this addendum.

2. The following paragraph has been incorporated into the Invitation to Bidders:

“All laborers and mechanics employed by contractors and subcontractors on projects funded directly by or assisted in whole or in part by and through the Clean Water State Revolving Fund or Drinking Water State Revolving Fund shall be paid wages at rates not less than those prevailing on projects of a character similar in the locality as determined by the Secretary of Labor in accordance with subchapter IV of chapter 31 of title 40, United States Code. Wages to be paid on this project will be governed by the Department of Labor Wage General Decision or Decisions included in the bid documents for this project.”

The revised Invitation to Bidders (IV-1) is included with this addendum.

3. The following paragraphs have been incorporated into the Instructions to Bidders:

“25. This contract is contingent upon release of funds from the Water Development Board. Any contract or contracts awarded under this Invitation for Bids are expected to be funded in part by a loan or grant from the Texas Water Development Board, and a grant from the United States Environmental Protection Agency (U.S. EPA.) Neither the State of Texas, or U.S. EPA nor any of its departments, agencies, or employees are or will be a party to this Invitation for Bids or any resulting contract.

26. A governmental entity may not award a governmental contract to a nonresident bidder unless the nonresident underbids the lowest bid submitted by a responsible resident bidder by an amount that is not less than the amount by which a resident bidder would be required to underbid the nonresident bidder to obtain a comparable contract in the state in which the nonresident's principal place of business is located. A non-resident bidder is a contractor whose corporate offices or principal place of business is outside of the

state of Texas. (Source: Texas Government Code Chapter 2252 Subchapter A Nonresident Bidders, (§ 2252.002) The bidder will complete form TWDB-0459 which must be submitted with the bid.

Forms to be submitted with Bid:

- Bidder's Certifications regarding Equal Employment Opportunity and Non-Segregated Facilities (WRD-255)
- Vendor Compliance with Non-Resident Bidder Requirements, TWDB-0459"

The revised Instructions to Bidders (IB) sheet IB-7 is included with this addendum.

4. The quantities in the BID PROPOSAL were revised.

- The quantity of Item No. 848.8PVC (line 19) was increased from 20 to 30
- The quantity of Item No. 853.T42 (line 29) was decreased from 7 to 6
- The quantity of Item No. 853.TED (line 31) was increased from 23 to 357
- The quantity of Item No. 853.TDED (line 32) was decreased from 357 to 23
- The quantity of Item No. SS-5001-36.10-14 (line 47) was increased from 1679 to 1713

The revised Bid Proposal is issued with this addendum. THIS REVISED VERSION OF THE BID PROPOSAL SHOULD BE USED WHEN SUBMITTING A BID FOR THIS PROJECT.

5. SP-7 on sheets SPTS-2 and SPTS-3 that reads:

"SP-7 REVISION TO [TXDOT] STANDARD SPECIFICATION ITEM NO. 502 (BARRICADES, SIGNS, AND TRAFFIC HANDLING)

Replace **502.3 Measurement** with the following:

502.3 Measurement. This item will be measured by "Lump Sum" as indicated on the plans.

Replace **502.3 Payment** with the following:

502.4 Payment. This item will be paid for at the contract lump sum price bid for "barricades, signs, and traffic handling". This price shall be full compensation for furnishing all labor, materials, supplies, equipment and incidentals necessary. To complete the work as specified. The lump sum price will be pro-rated based on the number of workdays in the project contract. Failure to complete the work within time allowed in the project contract due to approving designs, testing, material shortages, closed construction season, curing periods, and testing periods will not qualify for additional compensation. When additional work is added by an approved field alteration or when work is suspended for the convenience of the City, through no fault of the contractor, additional compensation may be paid to the Contractors."

Is amended to read as follows:

"SP-7 REVISION TO [TXDOT] STANDARD SPECIFICATION ITEM NO. 502 (BARRICADES, SIGNS, AND TRAFFIC HANDLING)

Replace **502.3 Measurement** with the following:

502.3 Measurement. This item will be measured by "Lump Sum" as indicated on the plans.

Replace **502.4 Payment** with the following:

502.4 Payment. This item will be paid for at the contract lump sum price bid for "barricades, signs, and traffic handling". This price shall be full compensation for furnishing all labor, materials, supplies, equipment and incidentals necessary to complete the work as specified. Failure to complete the work within time allowed in the project contract due to approving designs, testing, material shortages, closed construction season, curing periods, and testing periods will not qualify for additional compensation. When additional work is added by an approved field alteration or when work is suspended for the convenience of the Owner, through no fault of the contractor, additional compensation may be paid to the Contractors."

Explanation of changes

- The Payment section was incorrectly referenced as 502.3 in SP-7 rather than 502.4 and has been corrected.

- The previous second and third sentences should have been combined into one. This has been corrected.
- The sentence stating that the lump sum price will be prorated bas on the number of workdays has been removed.
- The word “City” has been replaced by “Owner” in the last sentence.

The revised Special Provisions to the Technical Specifications (SPTS) sheets SPTS-2 and SPTS-3 are included with this addendum.

6. The following Special Condition has been added to the third page of the Special Conditions:

“SC-6 FLOODPLAIN MANAGEMENT DEVELOPMENT PERMIT

Prior to construction activities, SAWS shall obtain a Floodplain Management Development Permit and maintain compliance with its special provision regarding construction activities located in the 100-year floodplain zone.”

The revised Special Conditions (SC) sheet SC-3 is included with this addendum.

QUESTIONS/CLARIFICATIONS

1. Question:

“SP-7

L.S Amount will be prorated based on the # of Contract Days. $X/540 = Y$

If the contractor completes the work in less than 540 days will he be paid the total of the L.S. Bid amount?”

Answer: Yes. Refer to changes to the specification listed above.

2. Question:

“SS 5006 – Tunnel Shafts

If the Tunneling is accomplished Per the conventional boring and Jacking methods (Specification 856) does the shaft construction described in Spec. 856 also apply?”

Answer: If the conventional boring and jacking methods, Specification 856 applies to the shaft construction for that location.

3. Question:

“Hope you are well. I am sending an inquiry for the above solicitation per the guidance on the website posting. I understand why our Fiberglass Sanitary Sewer Pipe – Flowtite has been temporarily removed from specifications in the recent past due to damaged pipe concerns. Recently, we have satisfactorily addressed that damage which was not caused by the manufacturer and have twice bid on solicitations for Fiberglass Sanitary Sewer Pipe through Anthony Rubin of the Purchasing Department. This recent inclusion to compete for SAWS projects again is appreciated.

Could you please check with your purchasing department colleagues, SAWS leadership staff and/or your consulting engineer and confirm that SAWS wishes to sole source Hobas for this solicitation and not included Flowtite – a qualified alternative/option for this pipe category. As our Flowtite pipe meets all the requirements for this project and that of the SUPPLEMENTARY SPECIFICATION 5001 FIBERGLASS SANITARY SEWER PIPE.

Some of the bidding contractors have installed and/or support using our product. Indeed, SAWS has just over 74,000 LF of Flowtite sanitary sewer pipe in their system. We hope to continue to be a part of your wastewater infrastructure program.”

Answer: The only approved manufacturer for this project is HOBAS specifically for the 33, 36 and 42 inch pipe sizes.

4. Question:

“For the items calling out tunneling with a steel casing, would an initial tunnel lining comprised of steel ring beam and timber lagging be acceptable in lieu of steel casing? This has been used extensively and is a standard tunnel lining and would offer the owner significant savings in lieu of casing.”

Answer: No. The Owner has specifically directed the use of steel casing.

5. Question:

“Will there be a mandatory pre-bid sign sheet available for the Boerne Stage to Old Fredericksburg Sanitary Sewer, SAWS Job No. 09-2502, SAWS Solicitation no. CO-00068?”

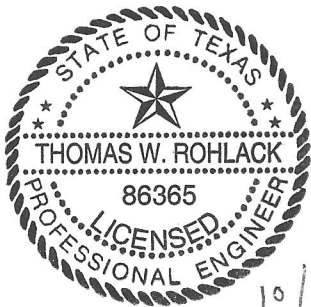
Answer: The sign in sheet has been posted online at:

http://www.saws.org/business_center/contractsol/IFB/1776/Mandatory%20Pre%20Bid%20Sign%20In%20Sheet_W%2031.pdf



Thomas W. Rohlack, PE, BCEE
CAS Consulting & Services, Inc.

END OF ADDENDUM



10/4/16

CADFILE:\active_projects\western_extension_b\3.0_work_products\3.6_cad\2002INDX01.dwg Plotter: Oct 03, 16 @ 2:07 pm by: Judy.Willing Scale: 1:1

SHEET LIST

Table with columns SHEET NO. and SHEET TITLE, listing sheets from 1 to 70 including cover sheets, general notes, erosion control, and wastewater plan details.

Table with columns No., Description, and Unit/Quantity, listing erosion and sedimentation control measures for various stationing (e.g., WASTEWATER LINE A PLAN AND PROFILE 14 STATION 68+80 TO 73+40).

NOTES:

- 1. BORE/RECEIVING PITS WILL NEED TO BE PROTECTED WITH A TEMPORARY FENCE, NSPI.
2. REFER TO SPECIAL CONSTRUCTION SEQUENCING NOTES ON SHEET G-4.

EROSION AND SEDIMENTATION QUANTITY TABLE

Table with columns Item No., Description, Unit, and Quantity, listing erosion control items like FURNISHING AND PLACING TOP SOIL 4" THICKNESS (TXDOT).

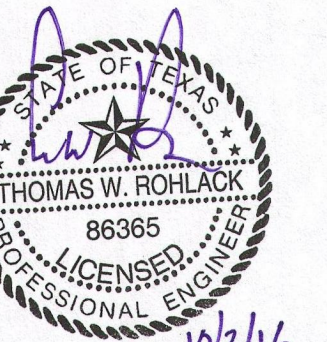
SANITARY SEWER QUANTITY TABLE

Table with columns Item No., Description, Unit, and Quantity, listing sanitary sewer construction items like MOBILIZATION, 8-INCH PVC, and TUNNEL DETAILS.

SEWER ABANDONMENT QUANTITY TABLE

Table with columns Item No., Description, Unit, and Quantity, listing sewer abandonment items like REMOVAL OF 8-INCH PVC SANITARY SEWER AND GRROUTING.

REVISION DESCRIPTION, DATE, REV. BY, REV. NO. 1 TWR 10/3/16 ADDENDUM # 2



10/3/16

CAS CONSULTING & SERVICES, INC. CIVIL ENGINEERING | PROGRAM MANAGEMENT | CONSTRUCTION MANAGEMENT

SAN ANTONIO WATER SYSTEM W31: IFF-10 BOERNE STAGE TO OLD FREDERICKSBURG

SHEET INDEX AND QUANTITY TABLE SHEET 1 OF 1

Table with columns NOTES, NAME, DATE, and SHEET NUMBER, providing project metadata and revision information.

GENERAL CONSTRUCTION NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST EDITIONS OF SAWS STANDARD SPECIFICATIONS AND THE CITY OF SAN ANTONIO SPECIFICATIONS.
- NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS, BUT NOT INCLUDED IN THE BID PROPOSAL. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED IN THE PAY ITEM TO WHICH IT RELATES.
- THE CONTRACTOR SHALL PROVIDE ACCESS FOR THE DELIVERY OF MAIL BY THE U.S. POSTAL SERVICE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION ANY DAMAGE DONE TO EXISTING FENCES, CONCRETE ISLANDS, STREET PAVING, CURBS, SHRUBS, BUSHES OR DRIVEWAYS. (NO SEPARATE PAY ITEM).
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL SIGNS AND BARRICADES ARE PROPERLY INSTALLED AND MAINTAINED. ALL LOCATIONS AND DISTANCES WILL BE DECIDED UPON IN THE FIELD BY THE CONTRACTOR, USING THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". THE CITY'S CONSTRUCTION INSPECTOR AND TRAFFIC ENGINEERING REPRESENTATIVE WILL ONLY BE RESPONSIBLE TO INSPECT BARRICADES AND SIGNS. IF, IN THE OPINION OF THE TRAFFIC ENGINEERING REPRESENTATIVE AND THE CONSTRUCTION INSPECTOR, THE BARRICADES AND SIGNS DO NOT CONFORM TO ESTABLISHED STANDARDS OR ARE INCORRECTLY PLACED OR ARE INSUFFICIENT IN QUANTITY TO PROTECT THE GENERAL PUBLIC, THE CONSTRUCTION INSPECTOR SHALL HAVE THE OPTION TO STOP OPERATIONS UNTIL SUCH TIME AS THE CONDITIONS ARE CORRECTED.
- IF THE NEED ARISES, ADDITIONAL BARRICADES AND DIRECTIONAL DEVICES MAY BE ORDERED BY THE TRAFFIC ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
- DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.171 C.P.S. MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
- CONTRACTOR SHALL NOTIFY THE SAWS INSPECTOR TWENTY FOUR (24) HOURS PRIOR TO BACKFILL OF ANY UTILITY TRENCHES TO SCHEDULE FOR DENSITY TEST AS REQUIRED.
- CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES, MARKS, ETC. IF ANY ARE DESTROYED OR REMOVED BY THE CONTRACTOR OR HIS EMPLOYEES, THEY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY THE FOLLOWING AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO EXCAVATION OPERATION:

SAN ANTONIO WATER SYSTEM (SAWS)	233-2010
COSA DRAINAGE	207-8048
COSA SIGNAL OPERATIONS	207-7720/207-7765
TEXAS STATE WIDE ONE CALL LOCATOR	1-800-344-8377
- CITY PUBLIC SERVICE ENERGY	
- TIME WARNER	
- AT&T	
- MCI	
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HERE ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND HE SHALL BE RESPONSIBLE FOR PROTECTION OF SAME DURING CONSTRUCTION.
- ALL WASTE MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE PROJECT. NO WASTE MATERIAL SHALL BE PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER FLOW LIMITS OF EXISTING ARTIFICIAL OR NATURAL DRAINAGE.
- THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIAL IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN DEVELOPMENT PERMIT.
- THE CONTRACTOR SHALL MAINTAIN ALL ADJOINING STREETS AND TRAVELED ROUTES FREE FROM SPILLED AND / OR TRACKED CONSTRUCTION MATERIALS AND / OR DEBRIS.

GENERAL CONSTRUCTION NOTES (CONT'D):

- IF THE CONTRACTOR ENCOUNTERS ANY ARCHAEOLOGICAL DEPOSITS DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR MUST STOP EXCAVATION IMMEDIATELY, CONTACT THE CITY INSPECTOR, AND CALL THE CITY HISTORIC PRESERVATION OFFICE AT 207-7306 OR 207-3327 FOR AN ARCHAEOLOGICAL INVESTIGATION. THE CONTRACTOR CANNOT BEGIN EXCAVATION AGAIN WITHOUT WRITTEN PERMISSION FROM THE CITY. IF MORE THAN THREE (3) DAYS ARE REQUIRED FOR INVESTIGATION (NOT INCLUDING HOLIDAY AND WEEKENDS) AND IF THE CONTRACTOR IS UNABLE TO WORK IN OTHER AREAS, THEN THE CONTRACTOR WILL BE ALLOWED TO NEGOTIATE FOR ADDITIONAL CONSTRUCTION TIME UPON WRITTEN REQUEST WITHIN TEN (10) DAYS AFTER THE FIRST NOTICE TO THE CITY OF ARCHAEOLOGICAL INVESTIGATION FOR EACH EVENT. IF THE TIME REQUIRED FOR INVESTIGATION IS LESS THAN OR EQUAL TO THREE (3) DAYS FOR EACH EVENT, CONTRACT DURATION WILL NOT BE EXTENDED.
- IF SUSPECTED CONTAMINATION IS ENCOUNTERED DURING CONSTRUCTION OPERATIONS, SAWS SHALL BE NOTIFIED IMMEDIATELY WHEN CONTAMINATED SOILS AND / OR GROUNDWATER ARE ENCOUNTERED AT LOCATIONS NOT IDENTIFIED IN THE PLANS. THE NOTIFICATION SHOULD INCLUDE THE STATION NUMBER, TYPE OF CONTAMINATED MEDIA, EVIDENCE OF CONTAMINATION AND MEASURES TAKEN TO CONTAIN THE CONTAMINATED MEDIA AND PREVENT PUBLIC ACCESS. THE CONTAMINATED SOIL AND / OR GROUNDWATER SHALL NOT BE REMOVED FROM THE LOCATION WITHOUT PRIOR SAWS APPROVAL. THE CONTRACTOR MUST STOP THE EXCAVATION IMMEDIATELY AND CONTACT THE SAWS INSPECTOR. THE CONTRACTOR CANNOT BEGIN EXCAVATION ACTIVITIES WITHOUT WRITTEN PERMISSION FROM THE CITY.
- COMPACTION SHALL BE PERFORMED AS OUTLINED IN SPECIFICATION 804: EXCAVATION, TRENCHING AND BACKFILL.
- ALL WORK AND SPOILS TO BE CONFINED TO WITHIN LIMITS OF CONSTRUCTION WHETHER IN A PUBLIC ROW OR AN EASEMENT. REFER TO GENERAL WATER NOTE #5 AND GENERAL SEWER NOTE #5 REGARDING NOT PLACING WASTE MATERIALS OR SPOILS IN THE 100-YEAR FLOOD PLAIN.

19. THIS PROJECT IS SUBJECT TO THE AMERICAN IRON AND STEEL (AIS) REQUIREMENTS OF SECTION 608 OF THE FEDERAL WATER POLLUTION CONTROL ACT. ALL IRON AND STEEL PRODUCTS FOR CONSTRUCTION, ALTERATION, MAINTENANCE, OR REPAIRS INCORPORATED IN THESE PLANS MUST BE PRODUCED IN THE UNITED STATES.

20. PER THE CATEGORICAL EXCLUSION ISSUED ON MARCH 4, 2016, CONDITIONS PERTAINING TO THIS PROJECT APPLY. THESE INCLUDE:
 -PRIOR TO CONSTRUCTION ACTIVITIES, SAWS SHALL OBTAIN A FLOODPLAIN MANAGEMENT DEVELOPMENT PERMIT AND MAINTAIN COMPLIANCE WITH ITS SPECIAL PROVISIONS REGARDING CONSTRUCTION ACTIVITIES LOCATED IN THE 100-YEAR FLOODPLAIN ZONE.

TREE PROTECTION AND PRESERVATION GENERAL NOTES:

- NO UTILITY OR STREET EXCAVATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
- TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION. DURING CONSTRUCTION ACTIVITY, AT LEAST A SIX-INCH LAYER OF COARSE MULCH SHALL BE PLACED AND MAINTAINED OVER THE ROOT PROTECTION ZONE (NO SEPARATE PAY ITEM).
- THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR FOR GUIDANCE.
- ROOTS WILL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY A EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT.
- ALL CURB AND SIDEWALK WORK SHALL USE ALTERNATIVE CONSTRUCTION METHODS TO MINIMIZE EXTENSIVE ROOT DAMAGE TO TREES (REFER TO DETAILS).
- EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP.
- NO EQUIPMENT, VEHICLES OR MATERIALS SHALL OPERATE OR BE STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT. ROOT PROTECTION ZONE IS 1 FOOT OF RADIUS PER INCH OF TREE'S DIAMETER. A 10-INCH DIAMETER TREE WOULD HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. OAK WOUNDS SHALL BE PAINTED OVER WITHIN 30 MINUTES TO PREVENT OAK WILT.
- SAPLINGS, SHRUBS OR BUSHES TO BE CLEARED FROM THE PROTECTED ROOT ZONE AREA OF A LARGE TREE SHALL BE REMOVED BY HAND AS DESIGNATED BY THE INSPECTOR.

TREE PROTECTION AND PRESERVATION GENERAL NOTES (CONT'D):

- NO WIRES, NAILS OR OTHER MATERIAL MAY BE ATTACHED TO PROTECTED TREES.
- TREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE CITY STREET OR ALLEY RIGHT-OF-WAY OR PERMANENT EASEMENTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION ACTIVITIES SHALL BE PROPERLY PRUNED FOLLOWING THE ANSI A-300 STANDARDS FOR PRUNING. ALL TREE PRUNING SHALL BE COMPLETED BY A CITY OF SAN ANTONIO TREE MAINTENANCE LICENSED CONTRACTOR (ARTICLE 21-171, CITY CODE) ONLY AFTER APPROVAL FROM THE CAPITAL PROJECTS MANAGEMENT THROUGH THE INSPECTOR.
- NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED.
- ALL DEBRIS GENERATED BY THE PRUNING AND TRIMMING OF THE TREES AND / OR BUSHES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY (NO SEPARATE PAY ITEM).
- TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE, BUT NOT LIMITED TO: WATERING THE ROOT PROTECTION ZONE, WASHING FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT.
- ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST. (207-0278)
- TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE CITY'S SATISFACTION.
- TREE PLANTING FOR MITIGATION OR ENHANCEMENT: ALL PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. THIS INCLUDES IRRIGATION, FERTILIZING, PRUNING AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT. TREES THAT DIE WITHIN TWELVE (12) MONTHS SHALL BE REPLACED WITH A TREE OF EQUAL SIZE AND SPECIES.

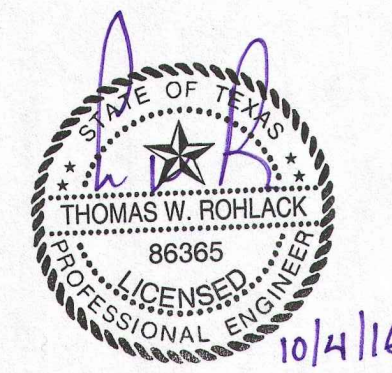
ACCESSIBILITY REQUIREMENTS

- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS AT ALL TIMES TO LOCAL RESIDENCES AND BUSINESSES.
- WHEN THE WORK REQUIRES THE EXCAVATION OF THE STREET AND THE REMOVAL OF THE EXISTING DRIVEWAY APPROACHES AND SIDEWALKS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY ALL-WEATHER ACCESS TO THE BUSINESSES AND RESIDENCES. THE TEMPORARY DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITH FLEXIBLE BASE OR GRAVEL MATERIAL AT NO SEPARATE COST TO SAWS.
- PRIOR TO INITIATING THE CONSTRUCTION OF NEW DRIVEWAY APPROACHES, THE CONTRACTOR SHALL GIVE ADVANCE WARNING IN PERSON, OR IN WRITING, OF AT LEAST 48 HOURS TO EACH RESIDENCE THAT WILL BE IMMEDIATELY AFFECTED, SO THAT ALTERNATE PLANS MAY BE MADE BY THE RESIDENTS.
- FOR BUSINESSES WITH MORE THAN ONE DRIVEWAY, AT LEAST ONE DRIVEWAY SHALL REMAIN OPEN WHILE THE OTHER NEW DRIVEWAY APPROACHES ARE CONSTRUCTED. FOR BUSINESSES WITH ONLY ONE DRIVEWAY, THE NEW DRIVEWAY APPROACH SHALL BE CONSTRUCTED IN HALF WIDTHS, UNLESS A TEMPORARY ASPHALT DRIVEWAY IS FIRST INSTALLED AT NO SEPARATE COST TO SAWS.

SPECIAL CONSTRUCTION SEQUENCING NOTES

- PHASE I: START WORK AT STATION 192+45 AND STOP WORK AT STATION 195+44 (END).
- PHASE II: START WORK AT STATION 10+10 (BEGINNING) STOP AT STATION 192+45. PERFORM BORE UNDER IH 10 AND INSTALL CASING AND CARRIER PIPE.
- PHASE III: DECOMMISSION LIFT STATIONS.

REV. NO.	BY	DATE	REVISION DESCRIPTION
1	TWR	10/4/16	ADDENDUM # 2



CAS CONSULTING & SERVICES, INC.
 CIVIL ENGINEERING | PROGRAM MANAGEMENT | CONSTRUCTION MANAGEMENT
 14100 San Pedro Ave., Suite 200, San Antonio, TX 78247 | Tel: 210.248.9083 | Fax: 512.836.4515

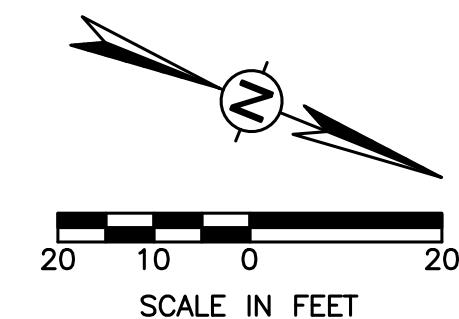
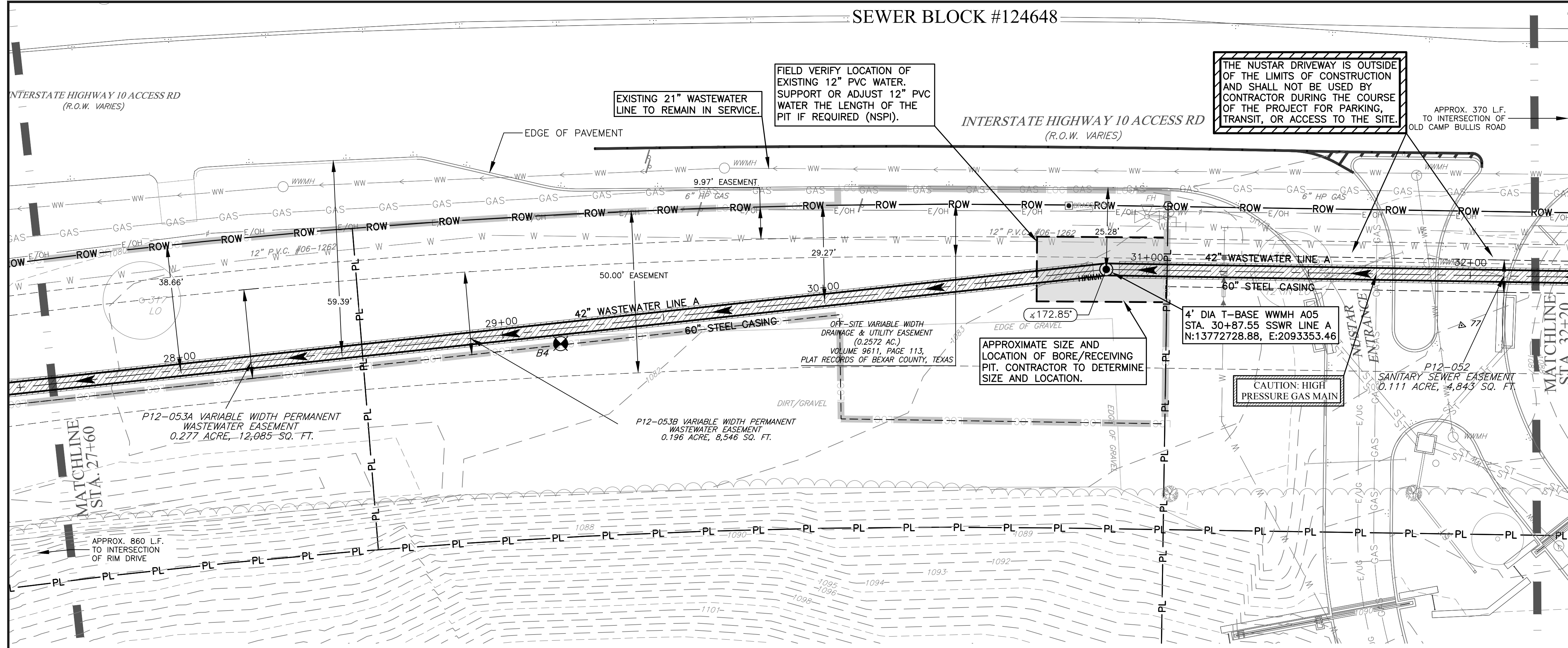
SAN ANTONIO WATER SYSTEM
 W31: IH-10 BOERNE STAGE TO OLD FREDERICKSBURG
 SAWS JOB NO. 09-2502

GENERAL NOTES
 SHEET 2 OF 3

NOTES	NAME	DATE
SURVEY BY	MACIAS	08/2010
DRAWN BY	BV,JW,PS	06/2016
CHECKED BY	TR	06/2016
DESIGNED BY	TR	06/2016
REVIEWED BY	GS	06/2016

SCALE: AS SHOWN
 CADD FILE: 2002GNS02.DWG
 PLOT DATE: 10/4/16
 SHEET NUMBER: **G - 4**
 SHEET 4 OF 135

SEWER BLOCK #124648



Item No.	Description	Unit	Quantity
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	40
SS-5001-42-14-18	42-INCH HOBAS SN72, OPEN CUT (14' TO 18' DEPTH)	LF	0
SS-5001-42-18-22	42-INCH HOBAS SN72, OPEN CUT (18' TO 22' DEPTH)	LF	0
SS-5001-42-22+	42-INCH HOBAS SN72, OPEN CUT (22+ DEPTH)	LF	8
863.742	42"x36" T-BASE MH w/ 4-FOOT FRP RISER (0-6)	EA	1
863.TED	EXTRA DEPTH 4-FOOT FRP RISER ON T-BASE MH (+6)	LF	24
SS-5003-60TC	TUNNELING & 60-INCH PRIMARY CASING (STEEL)	LF	452
SS-5004-42	42-INCH HOBAS SN72 CARRIER PIPE INSTALLED IN TUNNEL/CASING	LF	452
866.3	SEWER MAIN TELEVISION INSPECTION (30+ POST)	LF	460

PROFILE LEGEND:
 EXISTING GROUND ---
 PROPOSED WW LINE ———

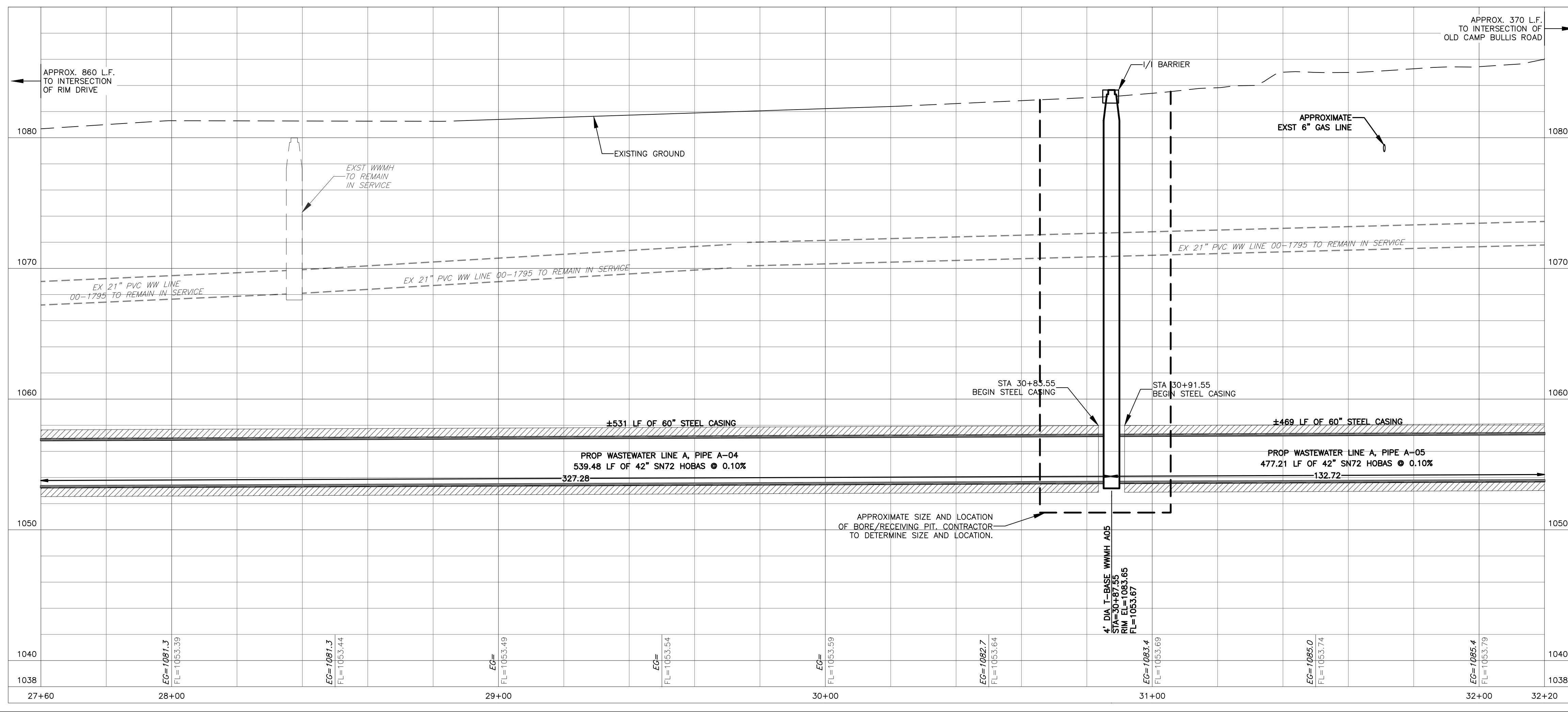
PROFILE SCALE:
 1"=20' HORIZONTAL
 1"=5' VERTICAL

- NOTES:
- FOR PLACEMENT OF EROSION & SEDIMENTATION CONTROLS & TREE PROTECTION FENCING, SEE EROSION & SEDIMENTATION CONTROL AND TREE PROTECTION PLANS.
 - ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE IN APPROXIMATE LOCATIONS. EVERY EFFORT HAS BEEN MADE TO ESTABLISH THE CORRECT HORIZONTAL AND VERTICAL ALIGNMENTS BASED ON FIELD SURVEYS AND ON INFORMATION AVAILABLE FROM SAWS AND OTHER UTILITIES THAT MAY HAVE FACILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO POTHOLE ALL LABELED UTILITIES AT LEAST 300 FEET AHEAD OF ACTUAL CONSTRUCTION. NEITHER THE ENGINEER NOR THE OWNER ARE RESPONSIBLE FOR EXISTING UTILITIES NOT SHOWN ON THESE PLANS.
 - THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING ANY DISCREPANCIES BETWEEN THE LOCATIONS OF EXISTING UTILITIES ON THE PLANS AND ACTUAL FIELD LOCATIONS.
 - CONTRACTOR TO CENTER ONE JOINT OF PIPE AT WATER LINE CROSSINGS
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING WATER AND WASTEWATER SERVICES TO ALL RESIDENTS DURING CONSTRUCTION. NO ADDITIONAL FEES SHALL BE ALLOWED FOR BRACING EXISTING LINES OR FOR BYPASS PUMPING SHOULD SUCH CONDITIONS PREVAIL.
 - CONTRACTOR IS RESPONSIBLE FOR LOCATING AND REPAIRING ANY UTILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO SAWS.
 - CONTRACTOR IS RESPONSIBLE FOR CONTACTING GREY FOREST UTILITIES (GFU) IF ANY STEEL PIPE COATING OR WRAP IS DAMAGED OR CHIPPED OFF DURING CONSTRUCTION. CONTACT GFU AT (210) 695-5992 TO REPORT INCIDENT PRIOR TO ANY BACKFILL OF THE EXCAVATED AREA.
 - THE NUSTAR DRIVEWAY IS OUTSIDE OF THE LIMITS OF CONSTRUCTION AND SHALL NOT BE USED BY THE CONTRACTOR DURING THE COURSE OF THE PROJECT FOR PARKING, TRANSIT OR ACCESS TO THE PROJECT SITE.

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.

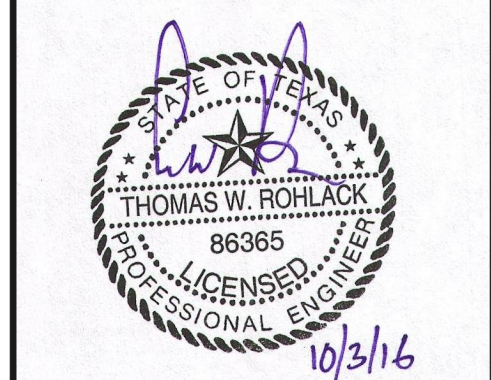
CAUTION!!!
 CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER AND/OR AROUND OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COORDINATE WITH CPS ENERGY TO ESTABLISH THE MAXIMUM WORKING HEIGHT FROM GROUND ELEVATION. COORDINATE ALL WORK WITH CPS ENERGY.

SPECIAL NOTE:
 1. THE CONTRACTOR SHALL PROVIDE THE PROPERTY OWNER A WRITTEN NOTICE OF INITIAL ENTRY 10 DAYS PRIOR TO START CONSTRUCTION WITHIN THEIR PROPERTY.



REVISION DESCRIPTION

REV. NO.	DATE	DESCRIPTION
1	TWR 10/3/16	ADDENDUM # 2



BLACK & VEATCH
 Building a world of difference
 Black & Veatch Corporation
 Registration No. 244
 Austin, Texas

CAS CONSULTING & SERVICES, INC.
 10000 WINDYBROOK DR. SUITE 1000
 FORT WORTH, TEXAS 76133
 Phone: 817-498-8881 Fax: 817-498-8811

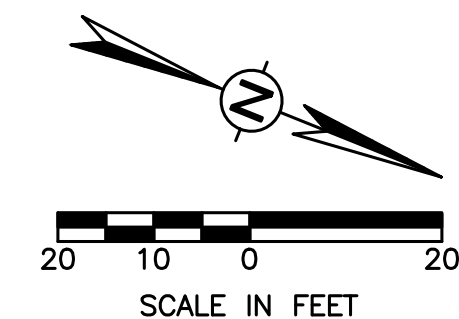
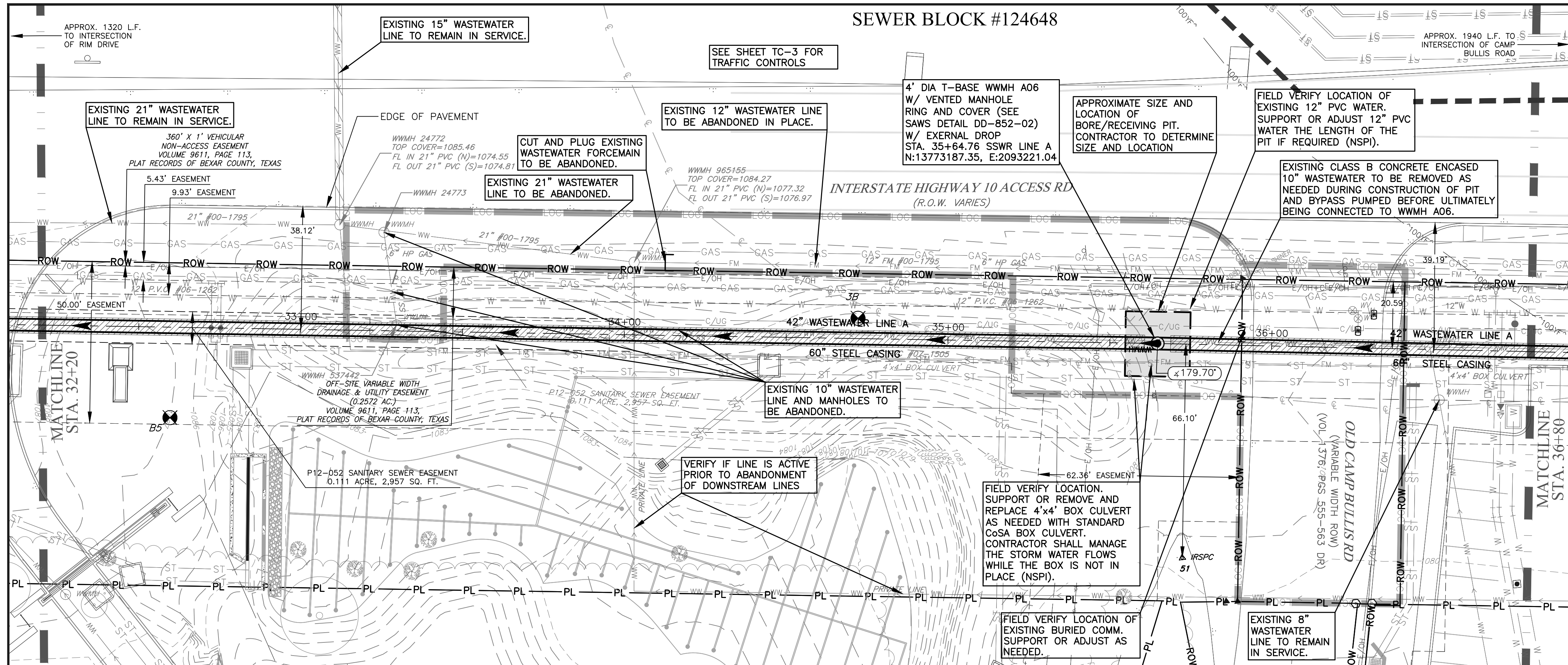
SAN ANTONIO WATER SYSTEM
 W31: IH-10 BOERNE STAGE TO OLD FREDERICKSBURG
 SAWS JOB NO. 09-2502

WASTEWATER LINE A PLAN AND PROFILE 05
 STA. 27+60 TO STA. 32+20

NOTES	NAME	DATE
SURVEY BY	MACIAS	08/2010
DRAWN BY	BV,JW,PS	06/2016
CHECKED BY	TR	06/2016
DESIGNED BY	TR	06/2016
REVIEWED BY	GS	06/2016
SCALE:	AS SHOWN	
CADD FILE:	2002SSWP05-PLAN.DWG	
CADD DIR:	E:\ACTIVE PROJECTS\05 WESTERN EXTENSION\05 WORK PRODUCTS\05 CADD	
PLOT DATE:	10/3/16	
SHEET NUMBER	C-9	
	SHEET 62 OF 135	

C:\ADP\LEL\active projects\05 western extension_b\3.0 work products\3.6 cadd\2002SSWP05-PLAN.dwg Plotted: Oct 03, 16 @ 11:36 am by: JudyWilling Scale: 1:1

SEWER BLOCK #124648



Item No.	Description	Unit	Quantity
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	20
SS-5001-42-14-18	42-INCH HOBAS SN72 OPEN CUT (14 TO 18 DEPTH)	LF	0
SS-5001-42-18-22	42-INCH HOBAS SN72 OPEN CUT (18 TO 22 DEPTH)	LF	0
SS-5001-42-22+*	42-INCH HOBAS SN72 OPEN CUT (22+ DEPTH)	LF	8
853 TD42	42"x36" T-BASE DROP MH w/ 4-FOOT FRP RISER (0-6)	EA	1
853 TDED	EXTRA DEPTH 4-FOOT FRP RISER W/ DROP ON T-BASE MH (0-6)	VF	23
SS-5003-60T/C	TUNNELING & 60-INCH PRIMARY CASING (STEEL)	LF	452
SS-5004-42	42-IN HOBAS SN72 CARRIER PIPE INSTALLED IN TUNNEL/CASING	LF	452
866.3	SEWER MAIN TELEVISION INSPECTION (30+ - POST)	LF	460

PROFILE LEGEND:
 EXISTING GROUND - - -
 PROPOSED WW LINE - - -

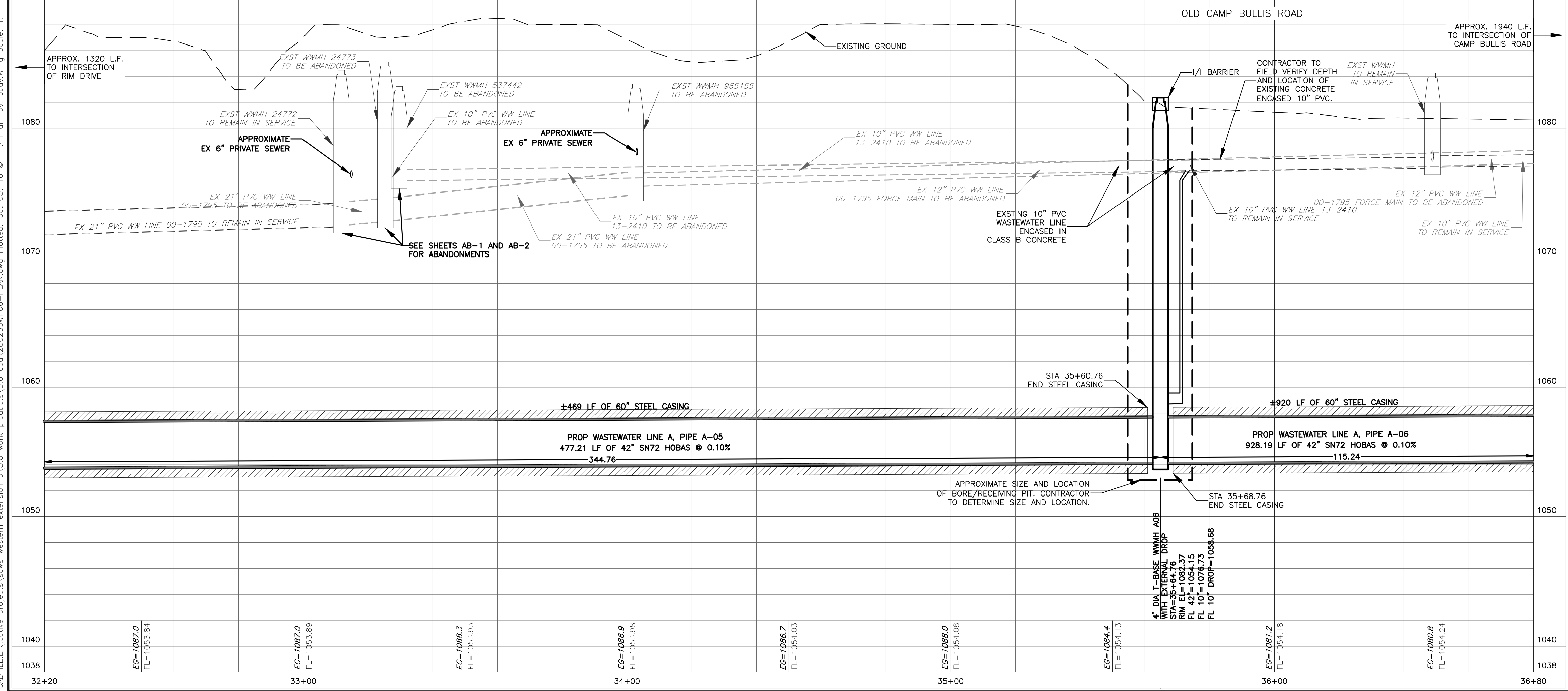
PROFILE SCALE:
 1"=20' HORIZONTAL
 1"=5' VERTICAL

- NOTES:**
- FOR PLACEMENT OF EROSION & SEDIMENTATION CONTROLS & TREE PROTECTION FENCING, SEE EROSION & SEDIMENTATION CONTROL AND TREE PROTECTION PLANS.
 - THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE PLANS AND THE ORIGINAL SURVEY AND ARE NOT GUARANTEED FOR ACCURACY OR TO BE CURRENT. THE LOCATIONS OF UTILITIES SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE START OF WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS.
 - THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING ANY DISCREPANCIES BETWEEN THE LOCATIONS OF EXISTING UTILITIES ON THE PLANS AND ACTUAL FIELD LOCATIONS.
 - CONTRACTOR TO CENTER ONE JOINT OF PIPE AT WATER LINE CROSSINGS
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING WATER AND WASTEWATER SERVICES TO ALL RESIDENTS DURING CONSTRUCTION (NSPI).
 - CONTRACTOR IS RESPONSIBLE FOR LOCATING AND REPAIRING ANY UTILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO SAWS.
 - CONTRACTOR IS RESPONSIBLE FOR CONTACTING GREY FOREST UTILITIES (GFU) IF ANY STEEL PIPE COATING OR WRAP IS DAMAGED OR CHIPPED OFF DURING CONSTRUCTION. CONTACT GFU AT (210) 695-5992 TO REPORT INCIDENT PRIOR TO ANY BACKFILL OF THE EXCAVATED AREA.

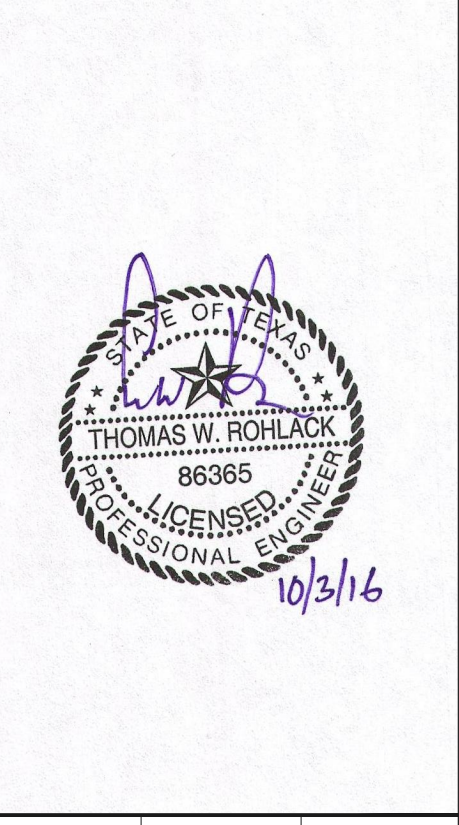
TRENCH EXCAVATION SAFETY PROTECTION:
 CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK 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.

CAUTION!!!
 CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER AND/OR AROUND OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COORDINATE WITH CPS ENERGY TO ESTABLISH THE MAXIMUM WORKING HEIGHT FROM GROUND ELEVATION. COORDINATE ALL WORK WITH CPS ENERGY.

SPECIAL NOTE:
 1. THE CONTRACTOR SHALL PROVIDE THE PROPERTY OWNER A WRITTEN NOTICE OF INITIAL ENTRY 10 DAYS PRIOR TO START CONSTRUCTION WITHIN THEIR PROPERTY.



REV. NO. 1
 DATE TW 10/31/16
 ADDENDUM # 2



BLACK & VEATCH
 Building a world of difference
 Black & Veatch Corporation
 Registration No. 248
 Austin, Texas

CAS CONSULTING & SERVICES, INC.
 CONSULTING ENGINEERS AND ARCHITECTS
 13122 RICE BLVD., SUITE 100
 HOUSTON, TEXAS 77040
 Phone: 281.488.0881 Fax: 281.488.6515

SAN ANTONIO WATER SYSTEM
 W31: IH-10 BOERNE STAGE TO OLD FREDERICKSBURG
 SAWS JOB NO. 09-2502

WASTEWATER LINE A PLAN AND PROFILE 06
 STA. 32+20 TO STA. 36+80

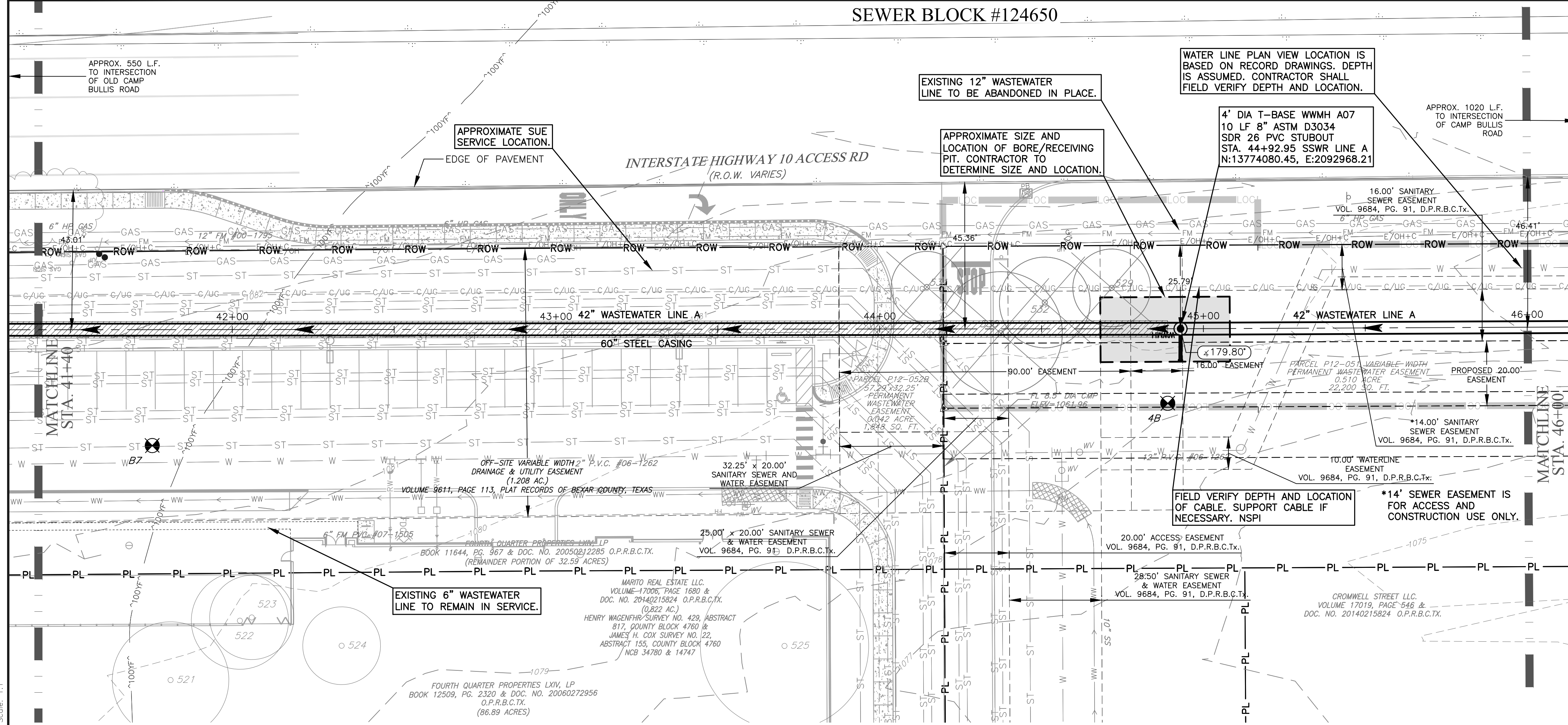
NOTES	NAME	DATE
SURVEY BY	MACIAS	08/2010
DRAWN BY	BV,JW,PS	06/2016
CHECKED BY	TR	06/2016
DESIGNED BY	TR	06/2016
REVIEWED BY	GS	06/2016

SCALE: AS SHOWN
 CADD FILE: 2002SSWP06-PLAN.DWG
 PLOT DATE: 10/31/16

SHEET NUMBER **C - 10**
 SHEET 63 OF 135

CADFILE:\active projects\western extension_b\3.0 work products\3.6 cad\2002SSWP06-PLAN.dwg Plotted: Oct 03, 16 @ 11:41 am by: Judy Wiling Scale: 1:1

SEWER BLOCK #124650



Item No.	Description	Unit/Quantity
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF 132
848.8PVC	8-INCH PVC ASTM D3034 DR 26 OPEN OUT (ALL DEPTHS)	LF 10
SS-5001-42-14-18	42-INCH HOBAS SN72 OPEN OUT (14" TO 18" DEPTH)	LF 0
SS-5001-42-18-22	42-INCH HOBAS SN72 OPEN OUT (18" TO 22" DEPTH)	LF 0
SS-5001-42-22-24	42-INCH HOBAS SN72 OPEN OUT (22" DEPTH)	LF 111
863.142	42"x36" T-BASE MHW 4-FOOT FRP RISER (R-6)	EA
863.122	EXTRA DEPTH 4-FOOT FRP RISER ON T-BASE MHW (+6)	VF 20.5
SS-5003-60TC	TUNNELING & 60-INCH PRIMARY CASING (STEEL)	LF 349
SS-5004-42	42-IN HOBAS SN72 CARRIER PIPE INSTALLED IN TUNNEL/CASING	LF 349
866.3	SEWER MAIN TELEVISION INSPECTION (30' + POST)	LF 460

PROFILE LEGEND:
 EXISTING GROUND - - - - -
 PROPOSED WW LINE - - - - -

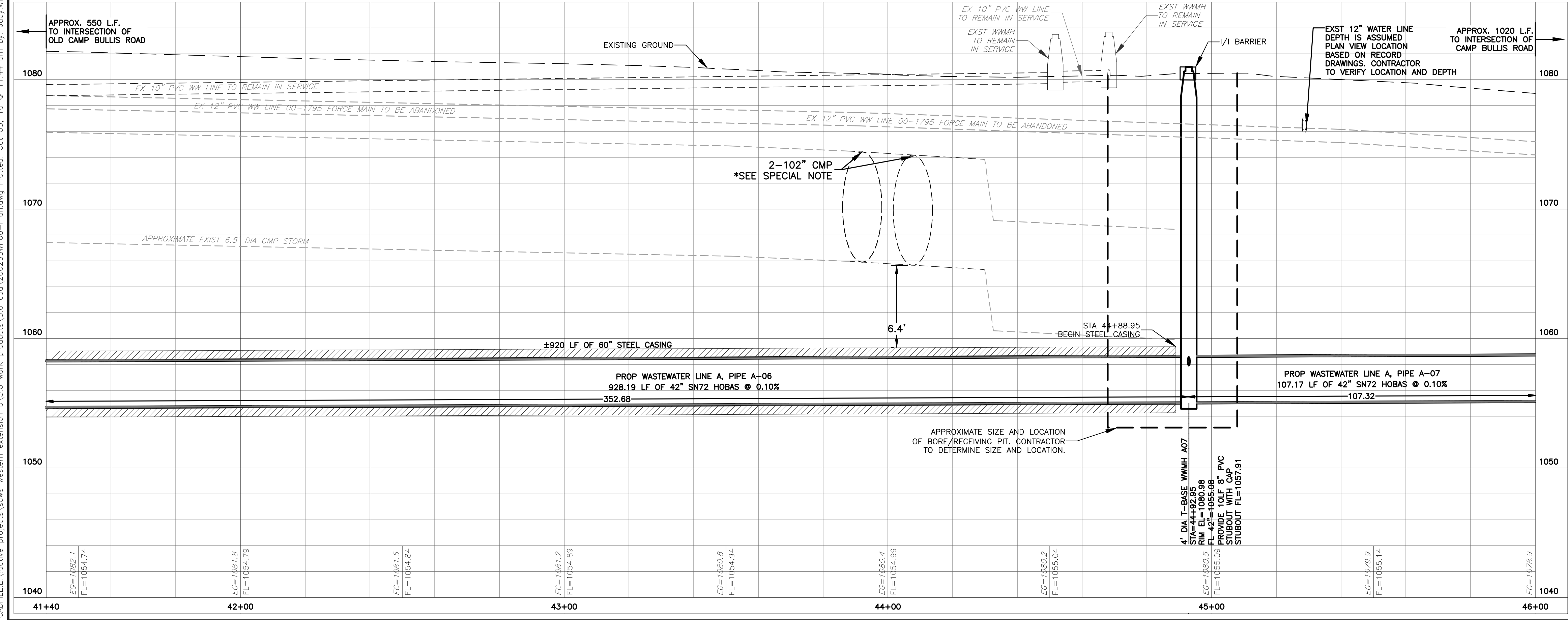
PROFILE SCALE:
 1"=20' HORIZONTAL
 1"=5' VERTICAL

- NOTES:**
- FOR PLACEMENT OF EROSION & SEDIMENTATION CONTROLS & TREE PROTECTION FENCING, SEE EROSION & SEDIMENTATION CONTROL AND TREE PROTECTION PLANS.
 - THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE PLANS AND THE ORIGINAL SURVEY AND ARE NOT GUARANTEED FOR ACCURACY OR TO BE CURRENT. THE LOCATIONS OF UTILITIES SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE START OF WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS.
 - THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING ANY DISCREPANCIES BETWEEN THE LOCATIONS OF EXISTING UTILITIES ON THE PLANS AND ACTUAL FIELD LOCATIONS.
 - CONTRACTOR TO CENTER ONE JOINT OF PIPE AT WATER LINE CROSSINGS.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING WATER AND WASTEWATER SERVICES TO ALL RESIDENTS DURING CONSTRUCTION (NSPI).
 - CONTRACTOR IS RESPONSIBLE FOR LOCATING AND REPAIRING ANY UTILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO SAWS.
 - CONTRACTOR IS RESPONSIBLE FOR CONTACTING GREY FOREST UTILITIES (GFU) IF ANY STEEL PIPE COATING OR WRAP IS DAMAGED OR CHIPPED OFF DURING CONSTRUCTION. CONTACT GFU AT (210) 695-5992 TO REPORT INCIDENT PRIOR TO ANY BACKFILL OF THE EXCAVATED AREA.

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.

CAUTION!!!
 CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER AND/OR AROUND OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COORDINATE WITH CPS ENERGY TO ESTABLISH THE MAXIMUM WORKING HEIGHT FROM GROUND ELEVATION. COORDINATE ALL WORK WITH CPS ENERGY.

- SPECIAL NOTES:**
- THE ELEVATIONS OF THE TWO (2) 102-INCH CMP HAVE BEEN CONFIRMED VIA SUE SERVICES. THE DESIGN ENGINEER AND CMP SUPPLIER FOR THAT PROJECT HAVE INDICATED THAT A BEDDING ENVELOPE EXTENDING TO APPROXIMATELY 6 INCHES BELOW THE FLOWLINE IS ANTICIPATED BUT THIS COULD NOT BE CONFIRMED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING THE BEDDING ENVELOPE BENEATH THE CMP CULVERTS (NSPI).
 - THE CONTRACTOR SHALL PROVIDE THE PROPERTY OWNER A WRITTEN NOTICE OF INITIAL ENTRY 10 DAYS PRIOR TO START CONSTRUCTION WITHIN THEIR PROPERTY.



REVISION DESCRIPTION
 REV. NO. DATE
 1 TWR 10/3/16 ADDENDUM # 2

STATE OF TEXAS
 THOMAS W. ROHLACK
 86365
 PROFESSIONAL ENGINEER
 10/3/16

BLACK & VEATCH
 Building a world of difference
 Black & Veatch Corporation
 Registration No. 248
 Austin, Texas

CAS CONSULTING & SERVICES, INC.
 2000 WEST LOOP SOUTH, SUITE 1000, HOUSTON, TEXAS 77056
 Phone: 713.686.8881 Fax: 713.686.6515

SAN ANTONIO WATER SYSTEM
 W31: IH-10 BOERNE STAGE TO OLD FREDERICKSBURG
 SAWS JOB NO. 09-2502

WASTEWATER LINE A PLAN AND PROFILE 08
 STA. 41+40 TO STA. 46+00

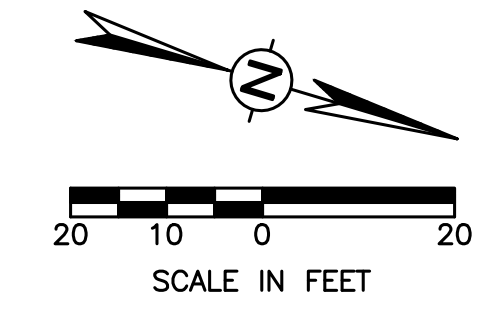
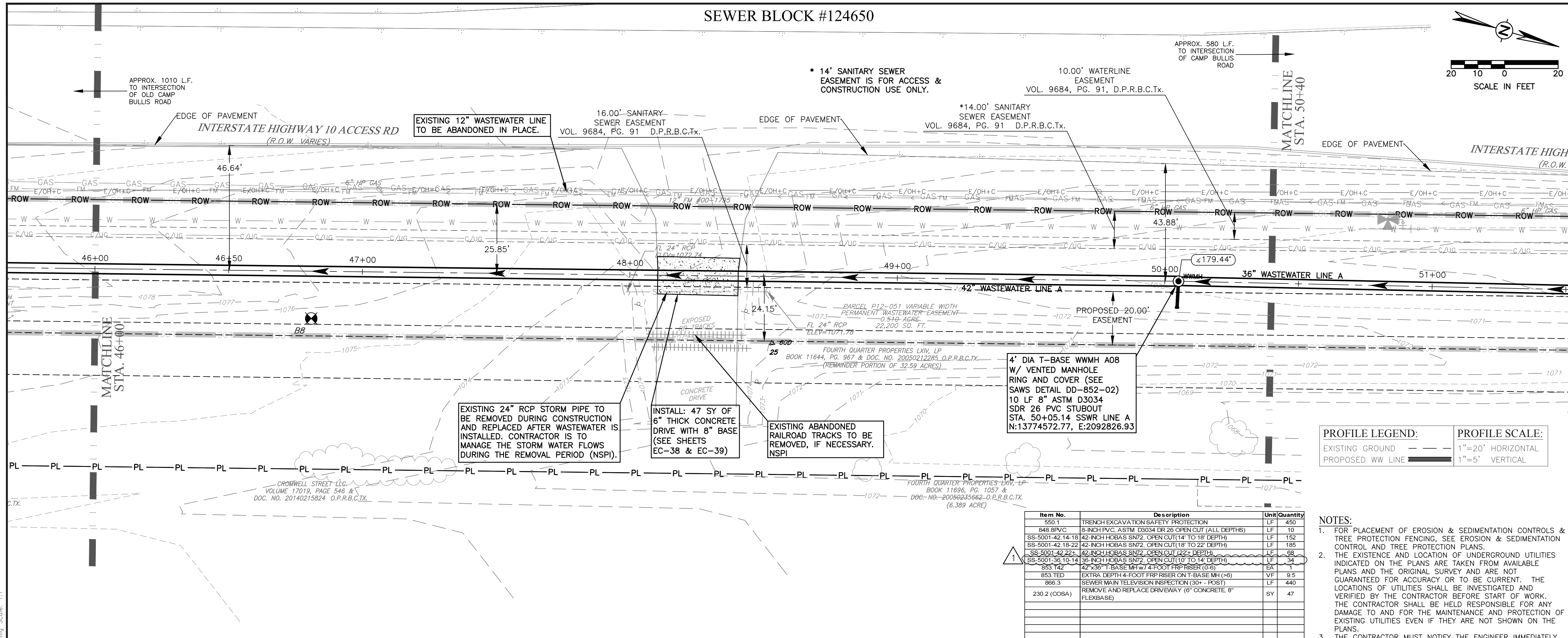
NOTES	NAME	DATE
SURVEY BY	MACIAS	08/2010
DRAWN BY	BV,JW,PS	06/2016
CHECKED BY	TR	06/2016
DESIGNED BY	TR	06/2016
REVIEWED BY	GS	06/2016

SCALE: AS SHOWN
 CADD FILE: 2002SSWP08-PLAN.DWG
 PLOT DATE: 10/3/16

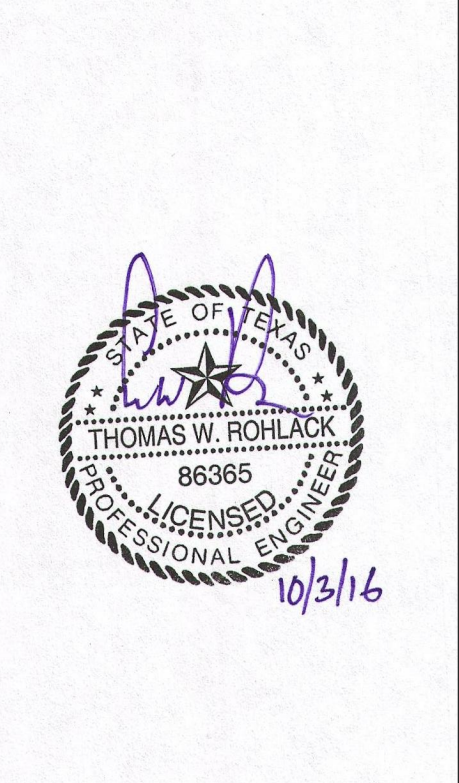
SHEET NUMBER **C - 12**
 SHEET 65 OF 135

CAD:LEI:\active_projects\sa_ws_western_extension_b\3.0_work_products\3.6_cad\2002SSWP08-Plan.dwg Plotted: Oct 03, 16 @ 11:44 am by Judy.Willig Scale: 1:1

SEWER BLOCK #124650



REV. NO.	DATE	REVISION DESCRIPTION
1	TWR 10/3/16	ADDENDUM # 2



PROFILE LEGEND:		PROFILE SCALE:	
EXISTING GROUND	---	1"=20' HORIZONTAL	
PROPOSED WW LINE	—	1"=5' VERTICAL	

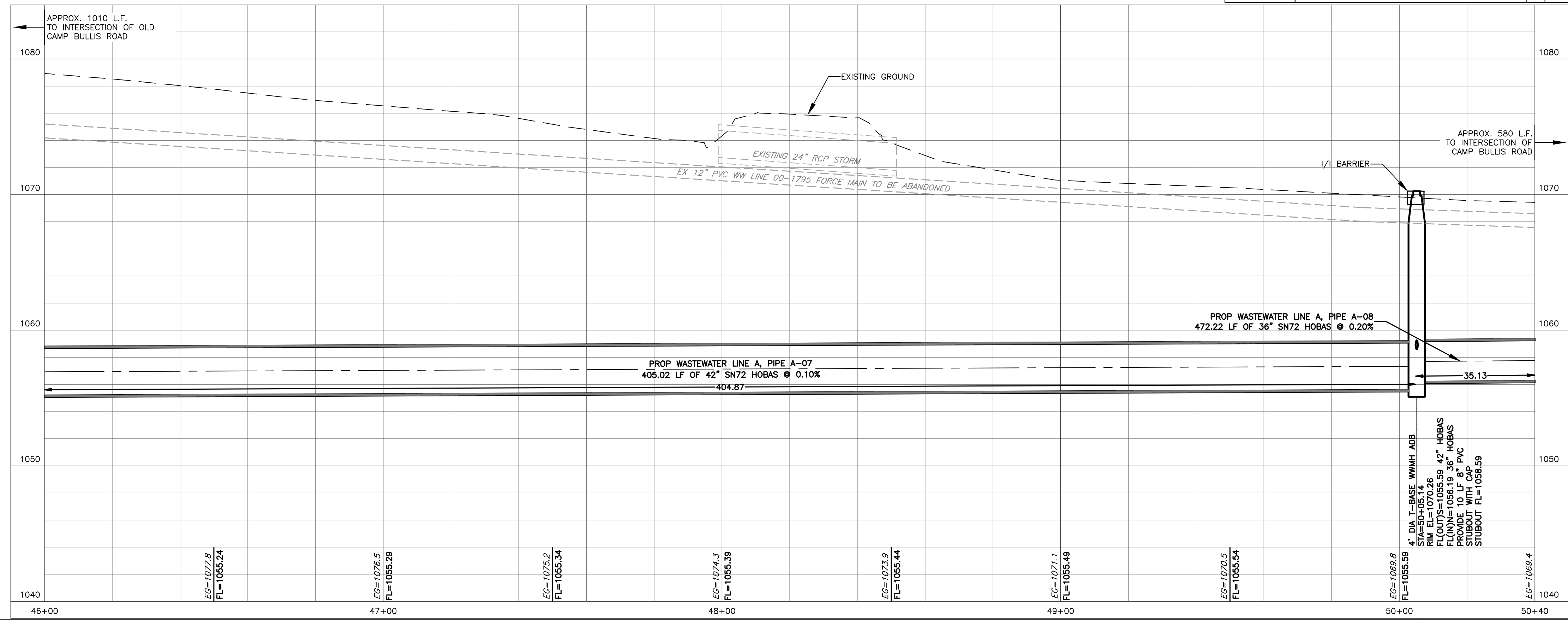
Item No.	Description	Unit	Quantity
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	450
848.8PVC	8-INCH PVC ASTM D3034 DR28 OPEN CUT (ALL DEPTHS)	LF	10
SS-5001-42-14-18	42-INCH HOBAS SN72 OPEN CUT (14' TO 18' DEPTH)	LF	152
SS-5001-42-18-22	42-INCH HOBAS SN72 OPEN CUT (18' TO 22' DEPTH)	LF	185
SS-5001-42-22-24	42-INCH HOBAS SN72 OPEN CUT (22' TO 24' DEPTH)	LF	98
SS-5001-36-10-14	36-INCH HOBAS SN72 OPEN CUT (10' TO 14' DEPTH)	LF	34
853.142	42"x36" T-BASE M/W 4'-FOOT FRP RISER (0-8)	EA	1
853.TED	EXTRA DEPTH 4-FOOT FRP RISER ON T-BASE MH (+8)	VF	9.5
866.3	SEWER MAIN TELEVISION INSPECTION (30+ POST)	LF	440
230.2 (COISA)	REMOVE AND REPLACE DRIVEWAY (6" CONCRETE, 8" FLEXBASE)	SY	47

- NOTES:**
- FOR PLACEMENT OF EROSION & SEDIMENTATION CONTROLS & TREE PROTECTION FENCING, SEE EROSION & SEDIMENTATION CONTROL AND TREE PROTECTION PLANS.
 - THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE PLANS AND THE ORIGINAL SURVEY AND ARE NOT GUARANTEED FOR ACCURACY OR TO BE CURRENT. THE LOCATIONS OF UTILITIES SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE START OF WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS.
 - THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING ANY DISCREPANCIES BETWEEN THE LOCATIONS OF EXISTING UTILITIES ON THE PLANS AND ACTUAL FIELD LOCATIONS.
 - CONTRACTOR TO CENTER ONE JOINT OF PIPE AT WATER LINE CROSSINGS.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING WATER AND WASTEWATER SERVICES TO ALL RESIDENTS DURING CONSTRUCTION (NSPI).
 - CONTRACTOR IS RESPONSIBLE FOR LOCATING AND REPAIRING ANY UTILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO SAWS.
 - CONTRACTOR IS RESPONSIBLE FOR CONTACTING GREY FOREST UTILITIES (GFU) IF ANY STEEL PIPE COATING OR WRAP IS DAMAGED OR CHIPPED OFF DURING CONSTRUCTION. CONTACT GFU AT (210) 695-5992 TO REPORT INCIDENT PRIOR TO ANY BACKFILL OF THE EXCAVATED AREA.

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.

CAUTION!!!
 CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER AND/OR AROUND OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COORDINATE WITH CPS ENERGY TO ESTABLISH THE MAXIMUM WORKING HEIGHT FROM GROUND ELEVATION. COORDINATE ALL WORK WITH CPS ENERGY.

SPECIAL NOTE:
 1. THE CONTRACTOR SHALL PROVIDE THE PROPERTY OWNER A WRITTEN NOTICE OF INITIAL ENTRY 10 DAYS PRIOR TO START CONSTRUCTION WITHIN THEIR PROPERTY.



CAS CONSULTING & SERVICES, INC.
 CIVIL ENGINEERING | PROGRAM MANAGEMENT | CONSTRUCTION MANAGEMENT
 14100 San Pedro Ave., Suite 405 | San Antonio, TX 78222 | REG. NO. T-003572
 Main: 210.248.5083 | Fax: 210.248.4915

SAN ANTONIO WATER SYSTEM
 W31: IIF-10 BOERNE STAGE TO OLD FREDERICKSBURG
 SAWS JOB NO. 09-2502

WASTEWATER LINE A PLAN AND PROFILE 09
 STA. 46+00 TO STA. 50+40

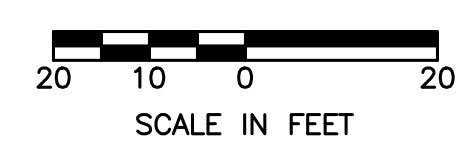
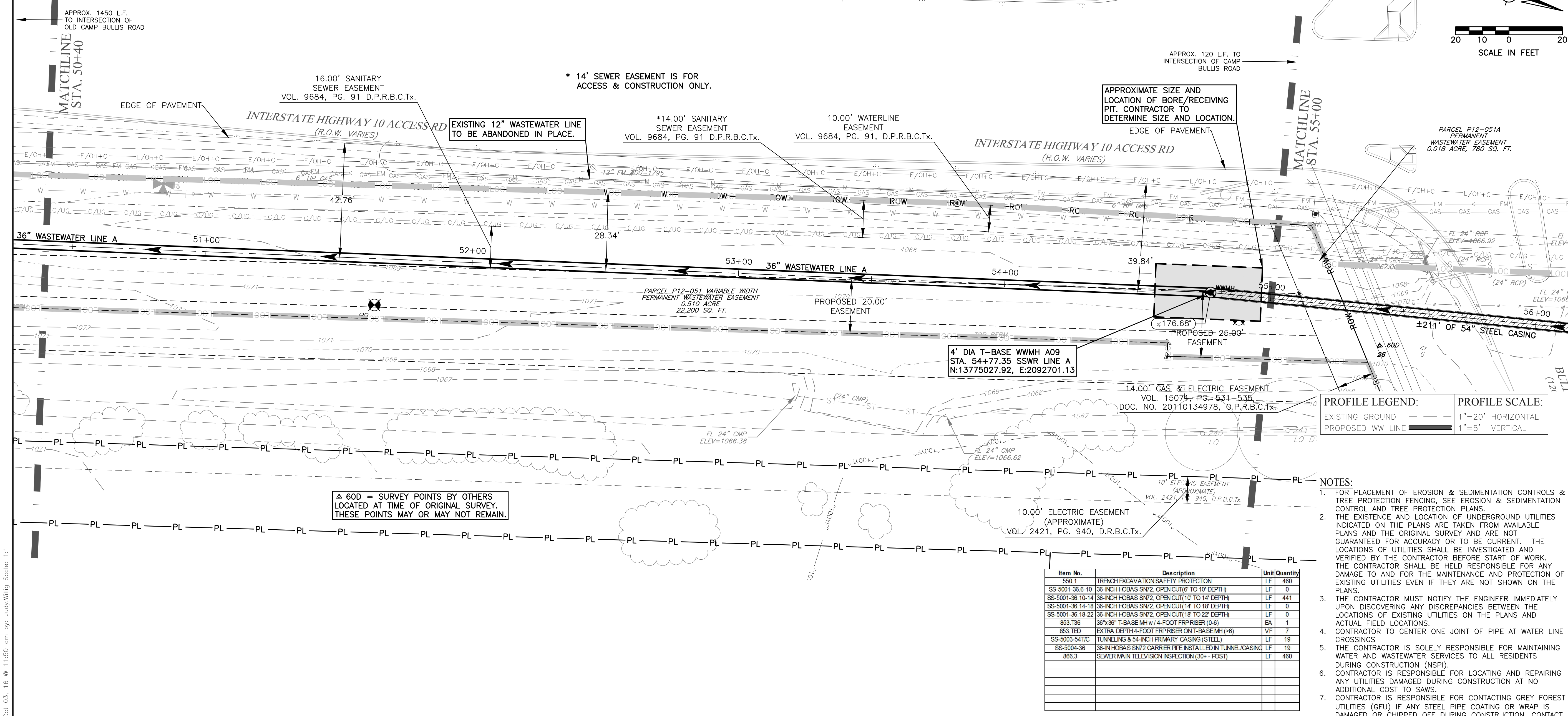
NOTES	NAME	DATE
SURVEY BY	MACIAS	08/2010
DRAWN BY	BV,JW,PS	06/2016
CHECKED BY	TR	06/2016
DESIGNED BY	TR	06/2016
REVIEWED BY	GS	06/2016

SCALE: AS SHOWN
 CADD FILE: 2002SSWP09.DWG
 PLOT DATE: 10/3/16

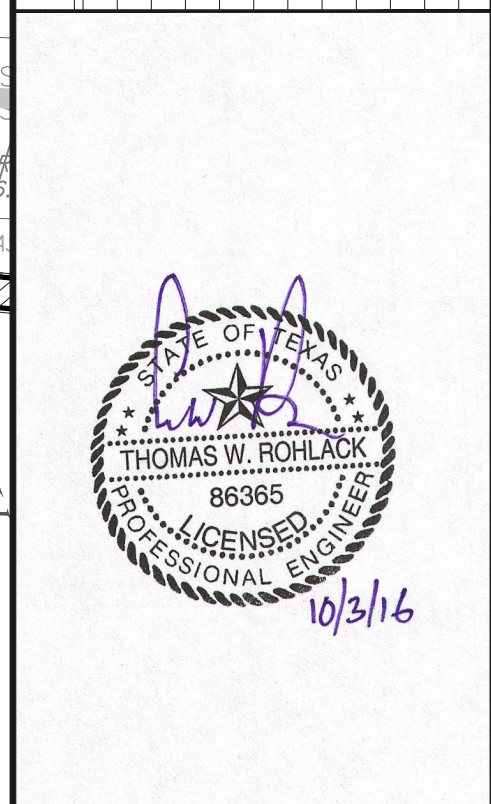
SHEET NUMBER	C - 13
SHEET	66 OF 135

CADFILE:\active_projects\sewer_block\2002SSWP09.dwg Plotted: Oct 03, 16 @ 2:10 pm by: Judy.Willig Scale: 1:1
 C:\Users\jwillig\Documents\2002SSWP09.dwg Plotted: Oct 03, 16 @ 2:10 pm by: Judy.Willig Scale: 1:1

SEWER BLOCK #124650



REV. NO.	DATE	REVISION DESCRIPTION
1	TWR 10/31/16	ADDENDUM # 2



PROFILE LEGEND:
 EXISTING GROUND (dashed line)
 PROPOSED WW LINE (solid line)

PROFILE SCALE:
 1" = 20' HORIZONTAL
 1" = 5' VERTICAL

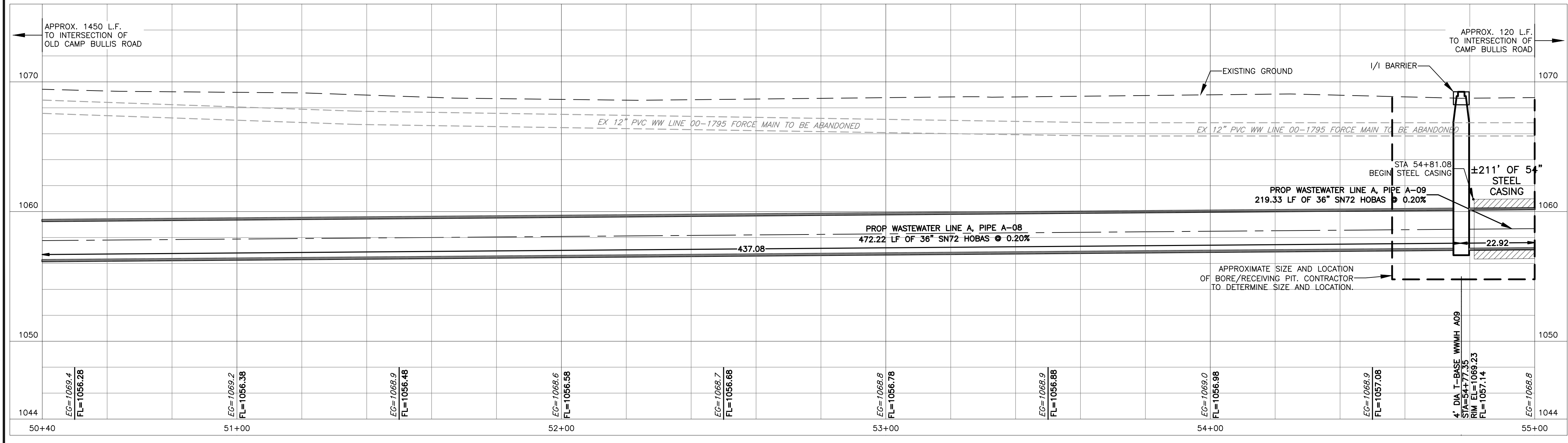
- NOTES:**
- FOR PLACEMENT OF EROSION & SEDIMENTATION CONTROLS & TREE PROTECTION FENCINGS, SEE EROSION & SEDIMENTATION CONTROL AND TREE PROTECTION PLANS.
 - THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE PLANS AND THE ORIGINAL SURVEY AND ARE NOT GUARANTEED FOR ACCURACY OR TO BE CURRENT. THE LOCATIONS OF UTILITIES SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE START OF WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS.
 - THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING ANY DISCREPANCIES BETWEEN THE LOCATIONS OF EXISTING UTILITIES ON THE PLANS AND ACTUAL FIELD LOCATIONS.
 - CONTRACTOR TO CENTER ONE JOINT OF PIPE AT WATER LINE CROSSINGS.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING WATER AND WASTEWATER SERVICES TO ALL RESIDENTS DURING CONSTRUCTION (NSPI).
 - CONTRACTOR IS RESPONSIBLE FOR LOCATING AND REPAIRING ANY UTILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO SAWS.
 - CONTRACTOR IS RESPONSIBLE FOR CONTACTING GREY FOREST UTILITIES (GFU) IF ANY STEEL PIPE COATING OR WRAP IS DAMAGED OR CHIPPED OFF DURING CONSTRUCTION. CONTACT GFU AT (210) 695-5992 TO REPORT INCIDENT PRIOR TO ANY BACKFILL OF THE EXCAVATED AREA.

Item No.	Description	Unit	Quantity
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	460
SS-5001-36-6-10	36-INCH HOBAS SN72, OPEN CUT(6' TO 10' DEPTH)	LF	0
SS-5001-36-10-14	36-INCH HOBAS SN72, OPEN CUT(10' TO 14' DEPTH)	LF	441
SS-5001-36-14-18	36-INCH HOBAS SN72, OPEN CUT(14' TO 18' DEPTH)	LF	0
SS-5001-36-18-22	36-INCH HOBAS SN72, OPEN CUT(18' TO 22' DEPTH)	LF	0
863.136	36"x36" T-BASE M/W 4-FOOT FRP RISER (0-6)	EA	1
863.1ED	EXTRA DEPTH 4-FOOT FRP RISER ON T-BASE M/W (0-6)	VF	7
SS-5003-54-TIC	TUNNELING & 54-INCH PRIMARY CASING (STEEL)	LF	19
SS-5004-36	36-INCH HOBAS SN72 CARRIER PIPE INSTALLED IN TUNNEL/CASING	LF	19
866.3	SEWER MAIN TELEVISION INSPECTION (30+ - POST)	LF	460

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.

CAUTION!!!
 CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER AND/OR AROUND OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COORDINATE WITH CPS ENERGY TO ESTABLISH THE MAXIMUM WORKING HEIGHT FROM GROUND ELEVATION. COORDINATE ALL WORK WITH CPS ENERGY.

SPECIAL NOTE:
 1. THE CONTRACTOR SHALL PROVIDE THE PROPERTY OWNER A WRITTEN NOTICE OF INITIAL ENTRY 10 DAYS PRIOR TO START CONSTRUCTION WITHIN THEIR PROPERTY.



CAS CONSULTING & SERVICES, INC.
 CIVIL ENGINEERING | PROGRAM MANAGEMENT | CONSTRUCTION MANAGEMENT
 14100 San Pedro Ave., Suite 405 | San Antonio, TX 78222 | REG. NO. F-005572
 Main: 210.248.9083 | Fax: 512.856.4915

SAN ANTONIO WATER SYSTEM
 W31: IH-10 BOERNE STAGE TO OLD FREDERICKSBURG
 SAWS JOB NO. 09-2502

WASTEWATER LINE A PLAN AND PROFILE 10 STA. 50+40 TO STA. 55+00

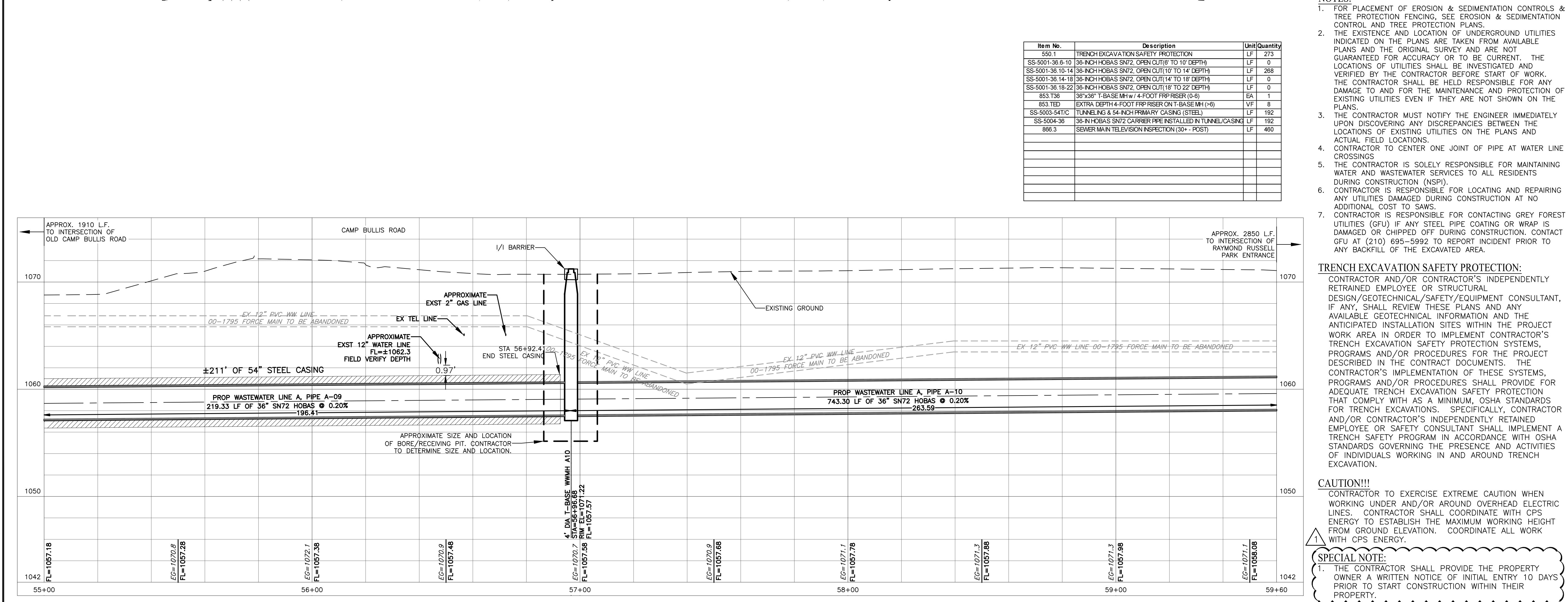
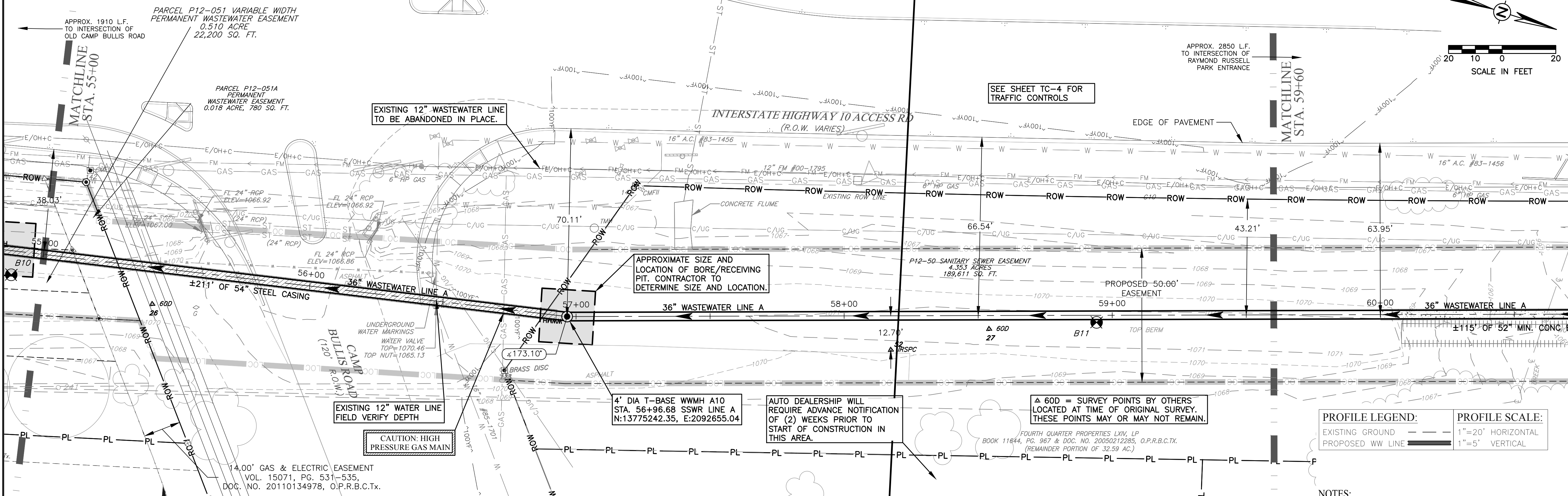
NOTES	NAME	DATE
SURVEY BY	MACIAS	08/2010
DRAWN BY	BV,JW,PS	06/2016
CHECKED BY	TR	06/2016
DESIGNED BY	TR	06/2016
REVIEWED BY	GS	06/2016

SCALE: AS SHOWN
 CADD FILE: 2002SSWP10.DWG
 PLOT DATE: 10/31/16

SHEET NUMBER: C-14
 SHEET 67 OF 135

CADFILE:\active_projects\sa_ws\western_extension_b\3.0_work_products\3.6_cad\2002SSWP10.dwg Plotted: Oct 03, 16 @ 11:50 am by Judy Willig Scale: 1:1

SEWER BLOCK #124650/124652



- NOTES:
- FOR PLACEMENT OF EROSION & SEDIMENTATION CONTROLS & TREE PROTECTION FENCING, SEE EROSION & SEDIMENTATION CONTROL AND TREE PROTECTION PLANS.
 - THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE PLANS AND THE ORIGINAL SURVEY AND ARE NOT GUARANTEED FOR ACCURACY OR TO BE CURRENT. THE LOCATIONS OF UTILITIES SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE START OF WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS.
 - THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING ANY DISCREPANCIES BETWEEN THE LOCATIONS OF EXISTING UTILITIES ON THE PLANS AND ACTUAL FIELD LOCATIONS.
 - CONTRACTOR TO CENTER ONE JOINT OF PIPE AT WATER LINE CROSSINGS
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING WATER AND WASTEWATER SERVICES TO ALL RESIDENTS DURING CONSTRUCTION (NSPI).
 - CONTRACTOR IS RESPONSIBLE FOR LOCATING AND REPAIRING ANY UTILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO SAWS.
 - CONTRACTOR IS RESPONSIBLE FOR CONTACTING GREY FOREST UTILITIES (GFU) IF ANY STEEL PIPE COATING OR WRAP IS DAMAGED OR CHIPPED OFF DURING CONSTRUCTION. CONTACT GFU AT (210) 695-5992 TO REPORT INCIDENT PRIOR TO ANY BACKFILL OF THE EXCAVATED AREA.
- 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.
- CAUTION!!!
- CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER AND/OR AROUND OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COORDINATE WITH CPS ENERGY TO ESTABLISH THE MAXIMUM WORKING HEIGHT FROM GROUND ELEVATION. COORDINATE ALL WORK WITH CPS ENERGY.
- SPECIAL NOTE:
- THE CONTRACTOR SHALL PROVIDE THE PROPERTY OWNER A WRITTEN NOTICE OF INITIAL ENTRY 10 DAYS PRIOR TO START CONSTRUCTION WITHIN THEIR PROPERTY.

REVISION DESCRIPTION

REV. NO. 1

DATE 11/10/10

ADDENDUM # 2

THOMAS W. ROHLACK
86365
PROFESSIONAL ENGINEER
10/3/16

BLACK & VEATCH
Building a world of difference
Blacks & Veatch Corporation
Registration No. 244
Austin, Texas

CAS CONSULTING & SERVICES, INC.
CONSULTING ENGINEERS AND ARCHITECTS
11000 FRENCH CANYON DRIVE, SUITE 100
DALLAS, TEXAS 75243
Phone: 214.636.8881 Fax: 214.636.8515

SAN ANTONIO WATER SYSTEM
W31: IH-10 BOERNE STAGE TO OLD FREDERICKSBURG
SAWS JOB NO. 09-2502

WASTEWATER LINE A PLAN AND PROFILE 11
STA. 55+00 TO STA. 59+60

NOTES	NAME	DATE
SURVEY BY	MACIAS	08/2010
DRAWN BY	BV,JW,PS	06/2016
CHECKED BY	TR	06/2016
DESIGNED BY	TR	06/2016
REVIEWED BY	GS	06/2016

SCALE: AS SHOWN

CADD FILE: 2002SSWP11.DWG

PLOT DATE: 10/3/16

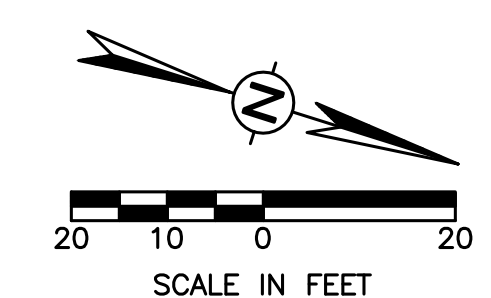
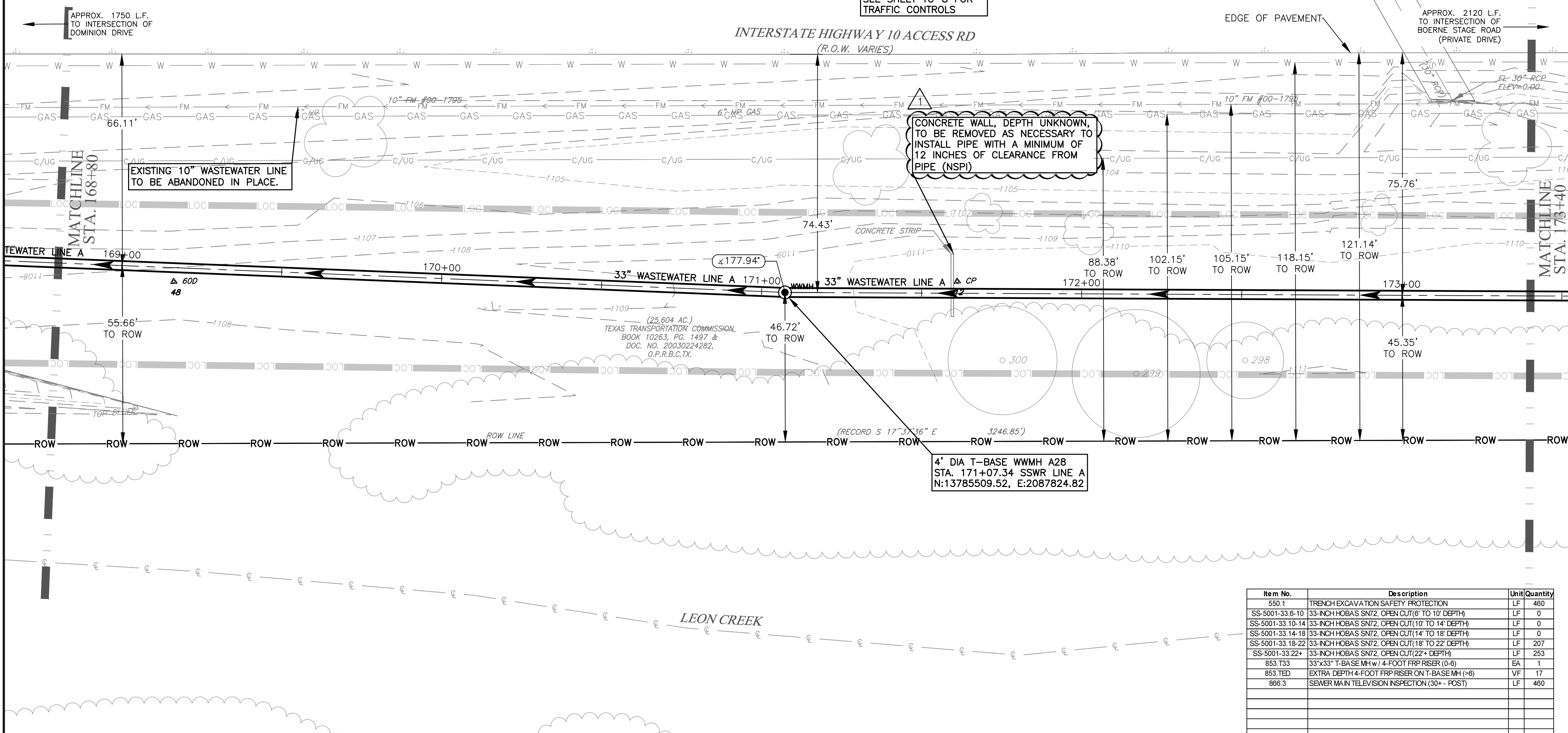
SHEET NUMBER C-15

SHEET 68 OF 135

CADFILE:\active_projects\ssaws_western_extension_b\3.0_work_products\3.6_cad\2002SSWP11.dwg Plotted: Oct 03, 16 @ 11:53 am by Judy Willig Scale: 1:1

SEWER BLOCK #120660/118660

SEE SHEET TC-8 FOR TRAFFIC CONTROLS



PROFILE LEGEND:

EXISTING GROUND - - - - -

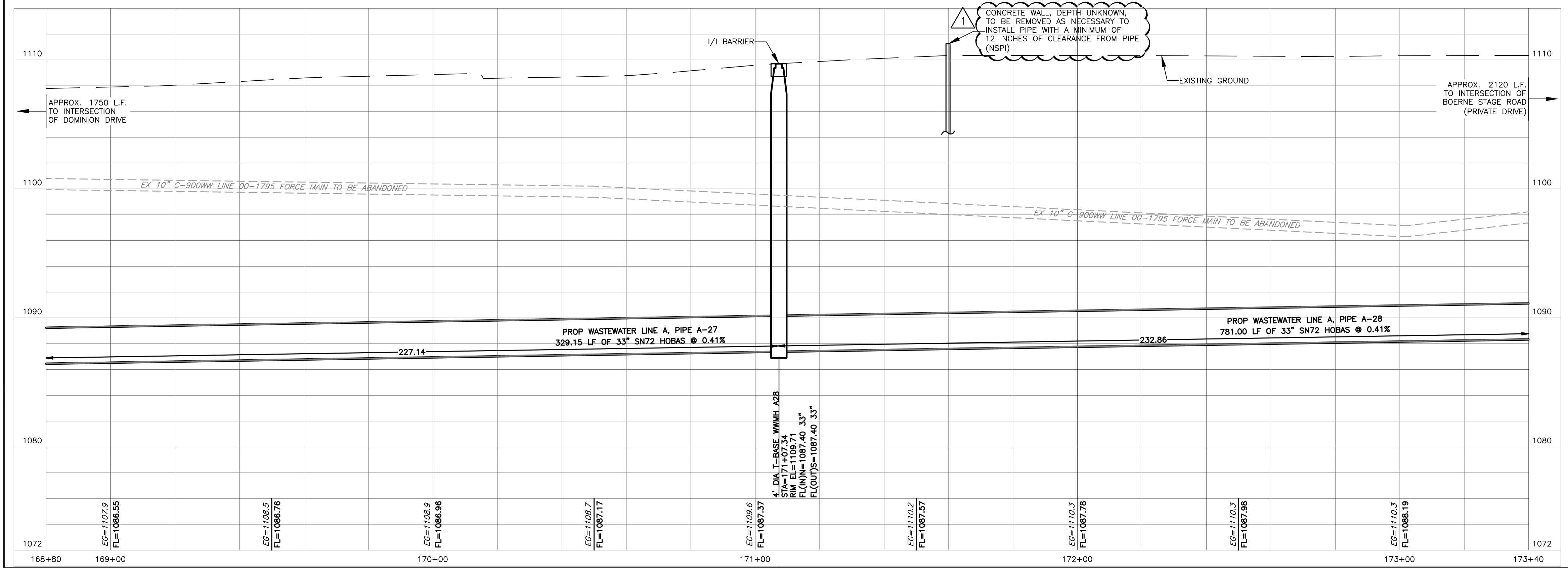
PROPOSED WW LINE - - - - -

PROFILE SCALE:

1"=20' HORIZONTAL

1"=5' VERTICAL

Item No.	Description	Unit	Quantity
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	460
SS-5001-33.6-10	33-INCH HOBAS SN72, OPEN CUT (6' TO 10' DEPTH)	LF	0
SS-5001-33.10-14	33-INCH HOBAS SN72, OPEN CUT (10 TO 14' DEPTH)	LF	0
SS-5001-33.14-18	33-INCH HOBAS SN72, OPEN CUT (14 TO 18' DEPTH)	LF	0
SS-5001-33.18-22	33-INCH HOBAS SN72, OPEN CUT (18 TO 22' DEPTH)	LF	207
SS-5001-33.22+	33-INCH HOBAS SN72, OPEN CUT (22+ DEPTH)	LF	253
853.133	33"x33" T-BASE MHW / 4-FOOT FRP RISER (0-6)	EA	1
853.1ED	EXTRA DEPTH 4-FOOT FRP RISER ON T-BASE MH (+6)	VF	17
866.3	SEWER MAIN TELEVISION INSPECTION (30+ POST)	LF	460



- NOTES:
- FOR PLACEMENT OF EROSION & SEDIMENTATION CONTROLS & TREE PROTECTION FENCING, SEE EROSION & SEDIMENTATION CONTROL AND TREE PROTECTION PLANS.
 - THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE PLANS AND THE ORIGINAL SURVEY AND ARE NOT GUARANTEED FOR ACCURACY OR TO BE CURRENT. THE LOCATIONS OF UTILITIES SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE START OF WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS.
 - THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING ANY DISCREPANCIES BETWEEN THE LOCATIONS OF EXISTING UTILITIES ON THE PLANS AND ACTUAL FIELD LOCATIONS.
 - CONTRACTOR TO CENTER ONE JOINT OF PIPE AT WATER LINE CROSSINGS.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING WATER AND WASTEWATER SERVICES TO ALL RESIDENTS DURING CONSTRUCTION (NSPI).
 - CONTRACTOR IS RESPONSIBLE FOR LOCATING AND REPAIRING ANY UTILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO SAWS.
 - CONTRACTOR IS RESPONSIBLE FOR CONTACTING GREY FOREST UTILITIES (GFU) IF ANY STEEL PIPE COATING OR WRAP IS DAMAGED OR CHIPPED OFF DURING CONSTRUCTION. CONTACT GFU AT (210) 695-5992 TO REPORT INCIDENT PRIOR TO ANY BACKFILL OF THE EXCAVATED AREA.

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.

CAUTION!!!

CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER AND/OR AROUND OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COORDINATE WITH CPS ENERGY TO ESTABLISH THE MAXIMUM WORKING HEIGHT FROM GROUND ELEVATION. COORDINATE ALL WORK WITH CPS ENERGY.

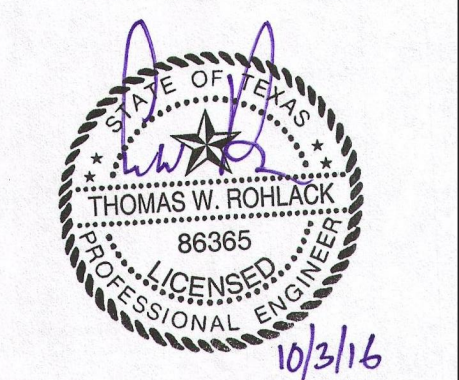
REVISION DESCRIPTION

DATE

REV. BY

NO.

1 TWR 10/3/16 ADDENDUM # 2



CAS CONSULTING & SERVICES, INC.
CIVIL ENGINEERING | PROGRAM MANAGEMENT | CONSTRUCTION MANAGEMENT
14100 San Pedro Ave., Suite 405 | San Antonio, TX 78222 | REG. NO. F-005572
Main: 210.248.9083 | Fax: 210.248.4915

SAN ANTONIO WATER SYSTEM
W31: IH-10 BOERNE STAGE TO OLD FREDERICKSBURG
SAWS JOB NO. 09-2502

WASTEWATER LINE A PLAN AND PROFILE 36
STA. 168+80 TO STA. 173+40

NOTES	NAME	DATE
SURVEY BY	MACIAS	08/2010
DRAWN BY	BV,JW,PS	06/2016
CHECKED BY	TR	06/2016
DESIGNED BY	TR	06/2016
REVIEWED BY	GS	06/2016

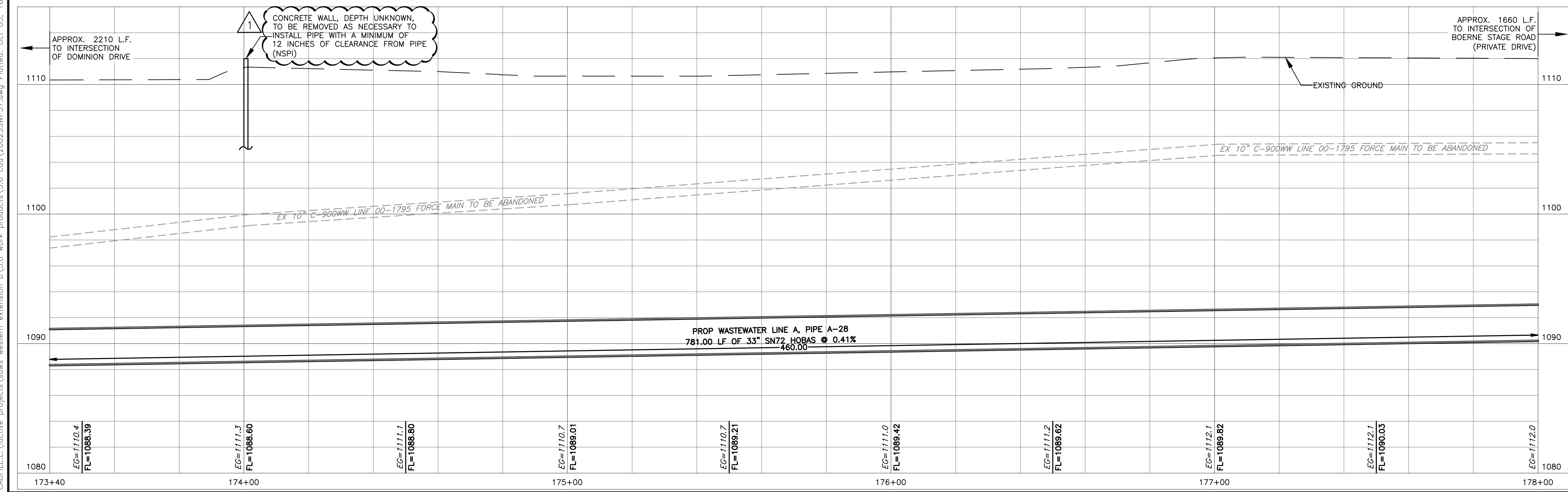
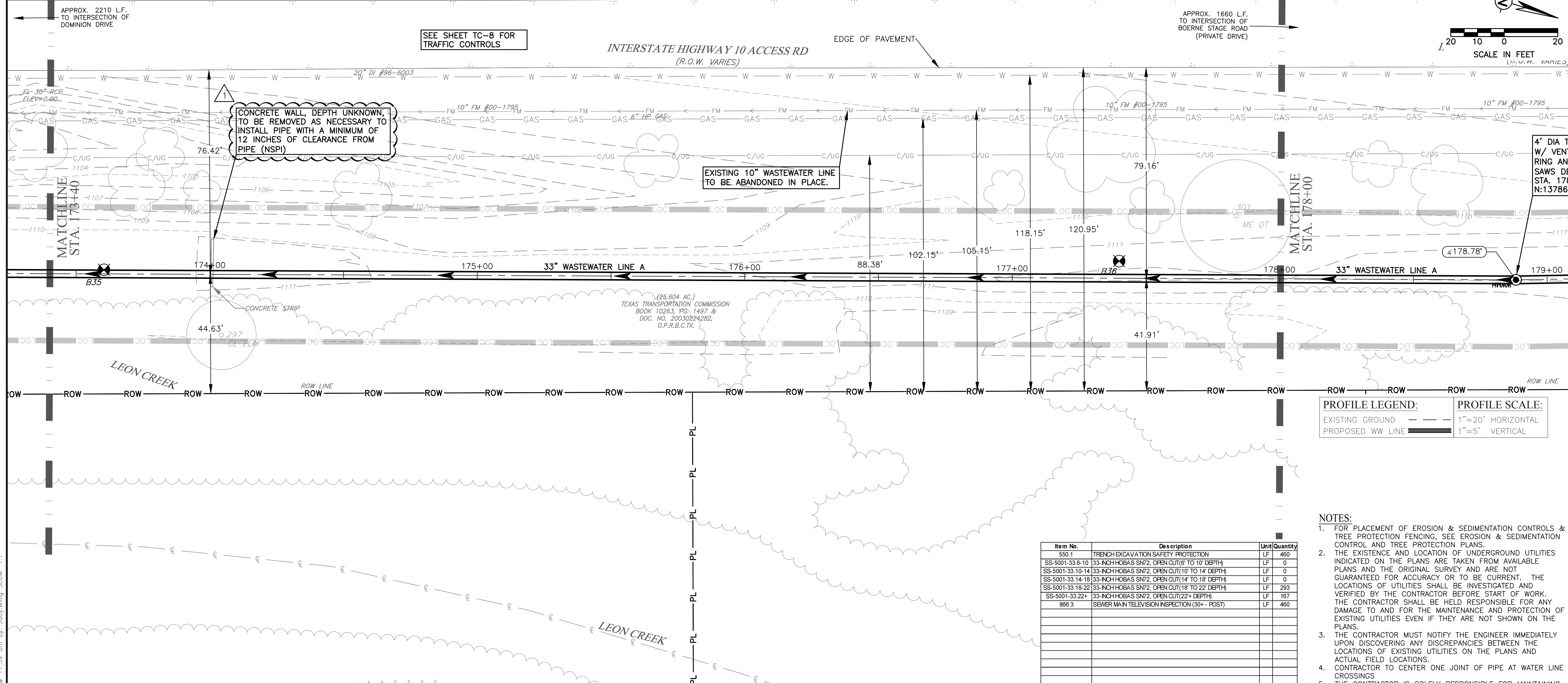
SCALE: AS SHOWN

CADD FILE: 2002SSWP36.DWG

PLOT DATE: 10/3/16

CADFILE:\active_projects\saws_western_extension_b\3.0_work_products\3.6_cad\2002SSWP36.dwg Plotted: Oct 03, 16 @ 11:56 am by Judy Willig Scale: 1:1

SEWER BLOCK #118660



Item No.	Description	Unit	Quantity
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	460
SS-5001-33.6-10	33-INCH HOBAS SN72 OPEN CUT(6' TO 10' DEPTH)	LF	0
SS-5001-33.10-14	33-INCH HOBAS SN72 OPEN CUT(10' TO 14' DEPTH)	LF	0
SS-5001-33.14-18	33-INCH HOBAS SN72 OPEN CUT(14' TO 18' DEPTH)	LF	0
SS-5001-33.18-22	33-INCH HOBAS SN72 OPEN CUT(18' TO 22' DEPTH)	LF	293
SS-5001-33.22+	33-INCH HOBAS SN72 OPEN CUT(22' DEPTH)	LF	167
866.3	SEWER MAIN TELEVISION INSPECTION (30+ POST)	LF	460

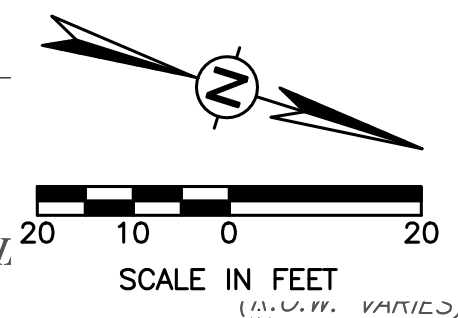
PROFILE LEGEND:
 EXISTING GROUND ---
 PROPOSED WW LINE ———

PROFILE SCALE:
 1"=20' HORIZONTAL
 1"=5' VERTICAL

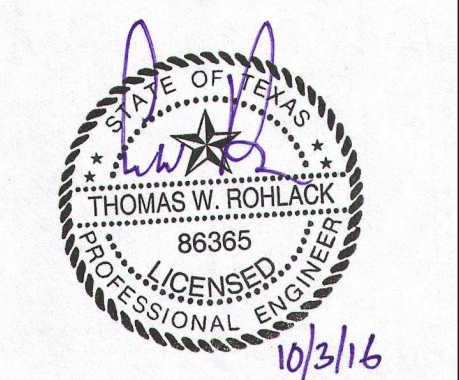
- NOTES:**
- FOR PLACEMENT OF EROSION & SEDIMENTATION CONTROLS & TREE PROTECTION FENCING, SEE EROSION & SEDIMENTATION CONTROL AND TREE PROTECTION PLANS.
 - THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE PLANS AND THE ORIGINAL SURVEY AND ARE NOT GUARANTEED FOR ACCURACY OR TO BE CURRENT. THE LOCATIONS OF UTILITIES SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE START OF WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS.
 - THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING ANY DISCREPANCIES BETWEEN THE LOCATIONS OF EXISTING UTILITIES ON THE PLANS AND ACTUAL FIELD LOCATIONS.
 - CONTRACTOR TO CENTER ONE JOINT OF PIPE AT WATER LINE CROSSINGS.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING WATER AND WASTEWATER SERVICES TO ALL RESIDENTS DURING CONSTRUCTION (NSPI).
 - CONTRACTOR IS RESPONSIBLE FOR LOCATING AND REPAIRING ANY UTILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO SAWS.
 - CONTRACTOR IS RESPONSIBLE FOR CONTACTING GREY FOREST UTILITIES (GFU) IF ANY STEEL PIPE COATING OR WRAP IS DAMAGED OR CHIPPED OFF DURING CONSTRUCTION. CONTACT GFU AT (210) 695-5992 TO REPORT INCIDENT PRIOR TO ANY BACKFILL OF THE EXCAVATED AREA.

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.

CAUTION!!!
 CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER AND/OR AROUND OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COORDINATE WITH CPS ENERGY TO ESTABLISH THE MAXIMUM WORKING HEIGHT FROM GROUND ELEVATION. COORDINATE ALL WORK WITH CPS ENERGY.



REV. NO.	DATE	REVISION DESCRIPTION
1	TWR 10/31/16	ADDENDUM # 2



CAS CONSULTING & SERVICES, INC.
 CIVIL ENGINEERING | PROGRAM MANAGEMENT | CONSTRUCTION MANAGEMENT
 14100 San Pedro Ave., Suite 405, San Antonio, TX 78222 | Tel: 210.248.9083 | Fax: 210.248.9085

SAN ANTONIO WATER SYSTEM
 W31: IH-10 BOERNE STAGE TO OLD FREDERICKSBURG
 SAWS JOB NO. 09-2502

WASTEWATER LINE A PLAN AND PROFILE 37
 STA. 173+40 TO STA. 178+00

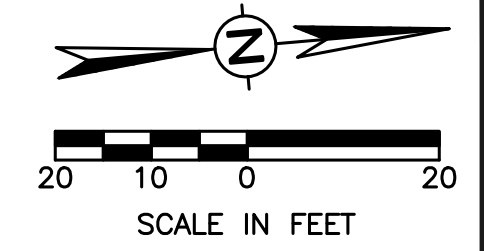
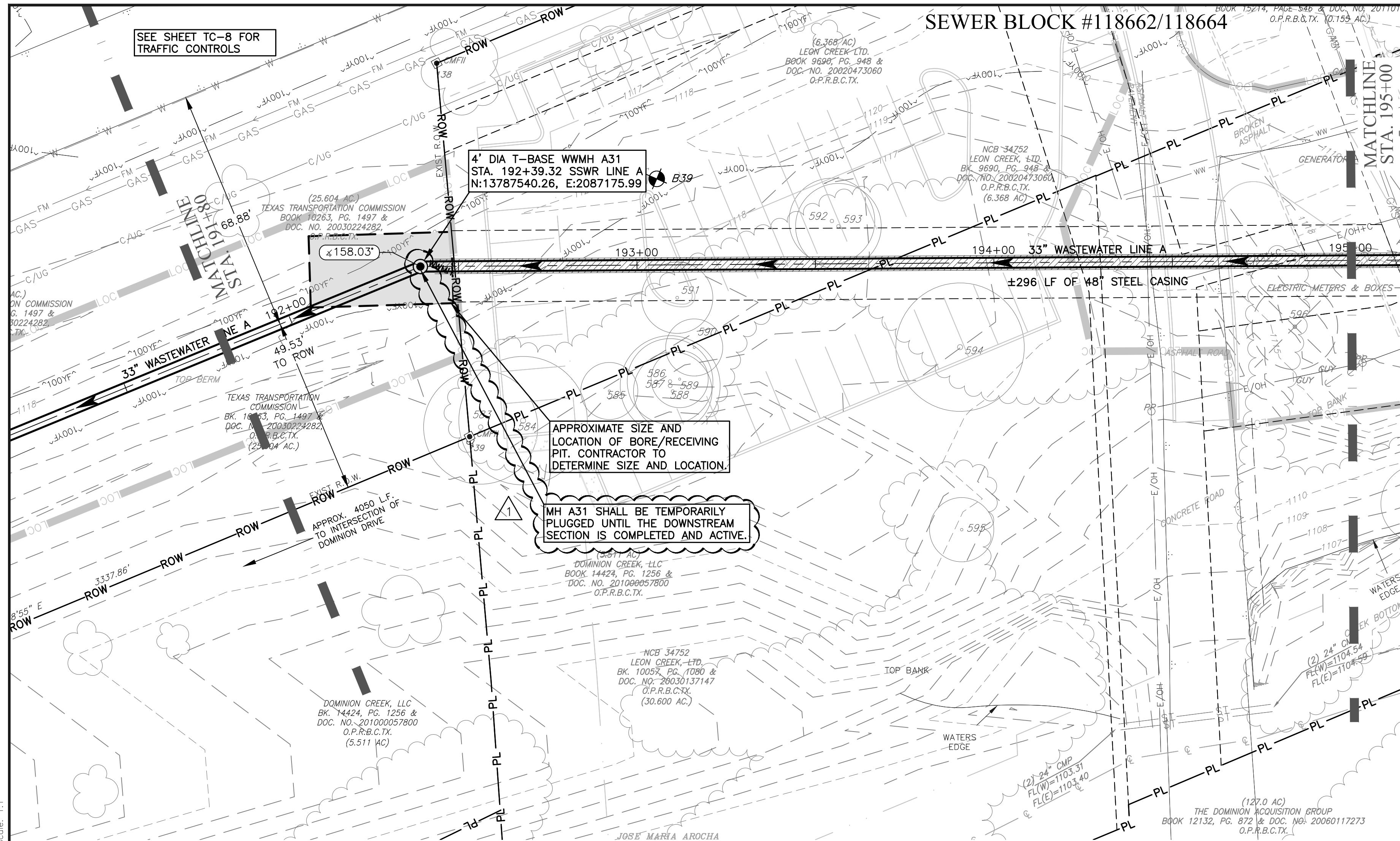
NOTES	NAME	DATE
SURVEY BY	MACIAS	08/2010
DRAWN BY	BV,JW,PS	06/2016
CHECKED BY	TR	06/2016
DESIGNED BY	TR	06/2016
REVIEWED BY	GS	06/2016

SCALE: AS SHOWN
 CADD FILE: 2002SSWP37.DWG
 PLOT DATE: 10/3/16

SHEET NUMBER: **C - 41**
 SHEET 94 OF 135

CADFILE:\active projects\sswp\western extension_b\3.0 work products\3.6 cad\2002SSWP37.dwg Plotted: Oct 03, 16 @ 11:59 am by Judy.Willig Scale: 1:1

SEWER BLOCK #118662/118664



Item No.	Description	Unit	Quantity
560.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	67
SS-5001-33 6-10	33-INCH HOBAS SN72, OPEN CUT(6' TO 10' DEPTH)	LF	0
SS-5001-33 10-14	33-INCH HOBAS SN72, OPEN CUT(10' TO 14' DEPTH)	LF	0
SS-5001-33 14-18	33-INCH HOBAS SN72, OPEN CUT(14' TO 18' DEPTH)	LF	0
SS-5001-33 18-22	33-INCH HOBAS SN72, OPEN CUT(18' TO 22' DEPTH)	LF	0
SS-5001-33 22+	33-INCH HOBAS SN72, OPEN CUT(22+ DEPTH)	LF	63
853.T33	33"x33" T-BASE MH W/ 4-FOOT FRP RISER (0-6)	EA	1
853.TED	EXTRA DEPTH 4-FOOT FRP RISER ON T-BASE MH (+6)	VF	18.5
SS-5003-48/C	TUNNELING & 48-INCH PRIMARY CASING (STEEL)	LF	257
SS-5004-33	33-IN HOBAS SN72 CARRIER PIPE INSTALLED IN TUNNEL CASING	LF	257
866.3	SEWER MAIN TELEVISION INSPECTION (30+ - POST)	LF	320

PROFILE LEGEND:
 EXISTING GROUND ———
 PROPOSED WW LINE ———

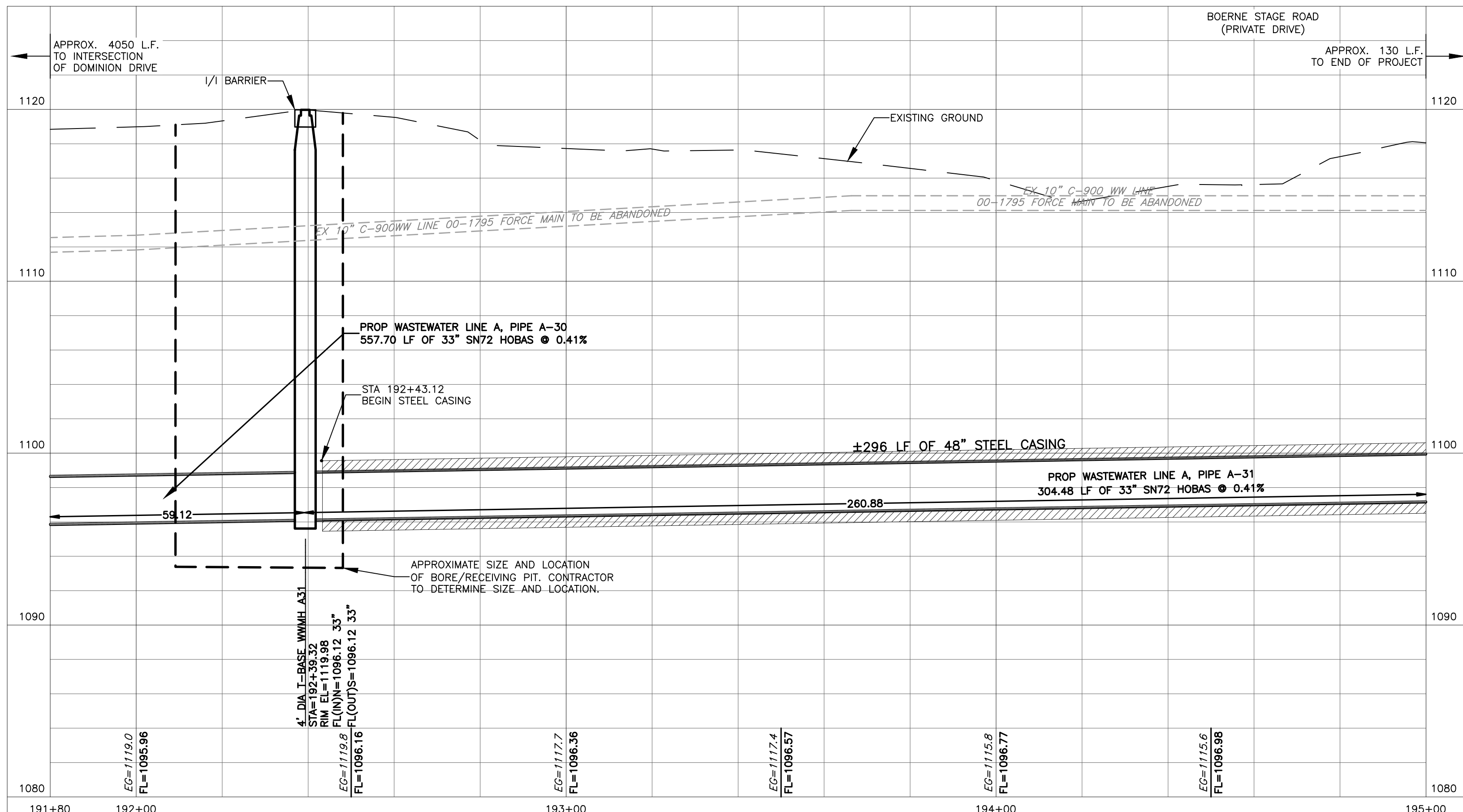
PROFILE SCALE:
 1"=20' HORIZONTAL
 1"=5' VERTICAL

- NOTES:**
- FOR PLACEMENT OF EROSION & SEDIMENTATION CONTROLS & TREE PROTECTION FENCING, SEE EROSION & SEDIMENTATION CONTROL AND TREE PROTECTION PLANS.
 - THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE PLANS AND THE ORIGINAL SURVEY AND ARE NOT GUARANTEED FOR ACCURACY OR TO BE CURRENT. THE LOCATIONS OF UTILITIES SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE START OF WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS.
 - THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING ANY DISCREPANCIES BETWEEN THE LOCATIONS OF EXISTING UTILITIES ON THE PLANS AND ACTUAL FIELD LOCATIONS.
 - CONTRACTOR TO CENTER ONE JOINT OF PIPE AT WATER LINE CROSSINGS
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING WATER AND WASTEWATER SERVICES TO ALL RESIDENTS DURING CONSTRUCTION (NSPI).
 - CONTRACTOR IS RESPONSIBLE FOR LOCATING AND REPAIRING ANY UTILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO SAWS.
 - CONTRACTOR IS RESPONSIBLE FOR CONTACTING GREY FOREST UTILITIES (GFU) IF ANY STEEL PIPE COATING OR WRAP IS DAMAGED OR CHIPPED OFF DURING CONSTRUCTION. CONTACT GFU AT (210) 695-5992 TO REPORT INCIDENT PRIOR TO ANY BACKFILL OF THE EXCAVATED AREA.

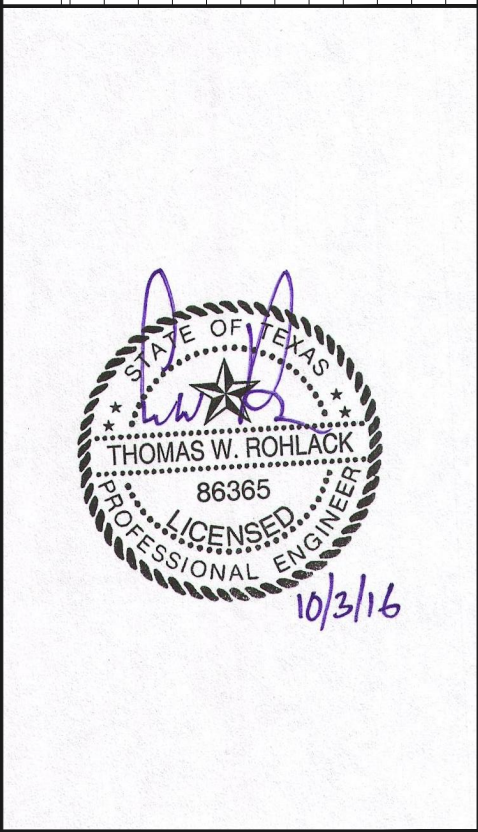
TRENCH EXCAVATION SAFETY PROTECTION:
 CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK 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.

CAUTION!!!
 CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER AND/OR AROUND OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COORDINATE WITH CPS ENERGY TO ESTABLISH THE MAXIMUM WORKING HEIGHT FROM GROUND ELEVATION. COORDINATE ALL WORK WITH CPS ENERGY.

SPECIAL NOTE:
 1. THE CONTRACTOR SHALL PROVIDE THE PROPERTY OWNER A WRITTEN NOTICE OF INITIAL ENTRY 10 DAYS PRIOR TO START CONSTRUCTION WITHIN THEIR PROPERTY.



REV. NO.	DATE	REVISION DESCRIPTION
1	TWR 10/3/16	ADDENDUM # 2



CAS CONSULTING & SERVICES, INC.
 CIVIL ENGINEERING | PROGRAM MANAGEMENT | CONSTRUCTION MANAGEMENT
 14100 San Pedro Ave., Suite 405, San Antonio, TX 78222 | REG. NO. F-005572
 Main: 210.248.9083 | Fax: 210.248.9515

SAN ANTONIO WATER SYSTEM
 W31: IIF-10 BOERNE STAGE TO OLD FREDERICKSBURG
 SAWS JOB NO. 09-2502

WASTEWATER LINE A PLAN AND PROFILE 41
 STA. 191+80 TO STA. 195+00

NOTES	NAME	DATE
SURVEY BY	MACIAS	08/2010
DRAWN BY	BV,JW,PS	06/2016
CHECKED BY	TR	06/2016
DESIGNED BY	TR	06/2016
REVIEWED BY	GS	06/2016

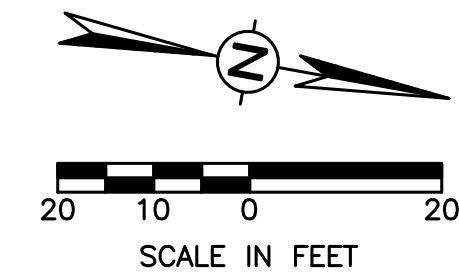
SCALE: AS SHOWN
 CADD FILE: 2002SSWP41.DWG
 PLOT DATE: 10/3/16

SHEET NUMBER	C - 45
SHEET	98 OF 135

CADFILE:\active_projects\western_extension_b\3.0_work_products\3.6_cad\2002SSWP41.dwg Plotted: Oct 03, 16 @ 12:02 pm by Judy Willig Scale: 1:1

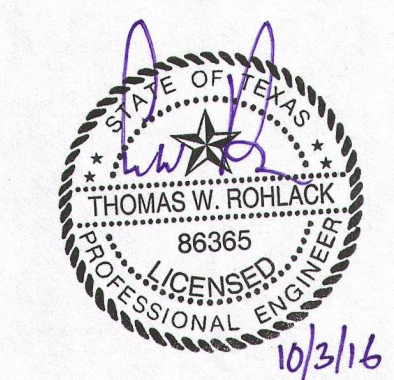
SEE SHEET TC-8 FOR TRAFFIC CONTROLS

INTERSTATE HIGHWAY 10 ACCESS RD
(R.O.W. VARIES)



Item No.	Description	Unit	Quantity
5501	TRENCH EXCAVATION SAFETY PROTECTION	LF	20
SS-5001-33-10-14	33-INCH HOBAS SN72 OPEN OUT(10' TO 10' DEPTH)	LF	0
SS-5001-33-10-14	33-INCH HOBAS SN72 OPEN OUT(10' TO 14' DEPTH)	LF	0
SS-5001-33-14-18	33-INCH HOBAS SN72 OPEN OUT(14' TO 18' DEPTH)	LF	0
SS-5001-33-18-22	33-INCH HOBAS SN72 OPEN OUT(18' TO 22' DEPTH)	LF	4
SS-5001-33-22+	33-INCH HOBAS SN72 OPEN OUT(22+ DEPTH)	LF	0
853.5FRPA32	5-FOOT DIAMETER FRP SANITARY MANHOLE A32 (0-6)	EA	1
853.5FRPEP	EXTRA DEPTH 5-FOOT DIA FRP SANITARY MANHOLE (-6)	VF	16
SS-5003-48TC	TUNNELING & 48-INCH PRIMARY CASING (STEEL)	LF	42
SS-5004-33	33-IN HOBAS SN72 CARRIER PIPE INSTALLED IN TUNNEL/CASING	LF	42
866.3	SEWER MAIN TELEVISION INSPECTION (30+ - POST)	LF	44

PROFILE LEGEND: EXISTING GROUND --- PROPOSED WW LINE ———
PROFILE SCALE: 1"=20' HORIZONTAL 1"=5' VERTICAL

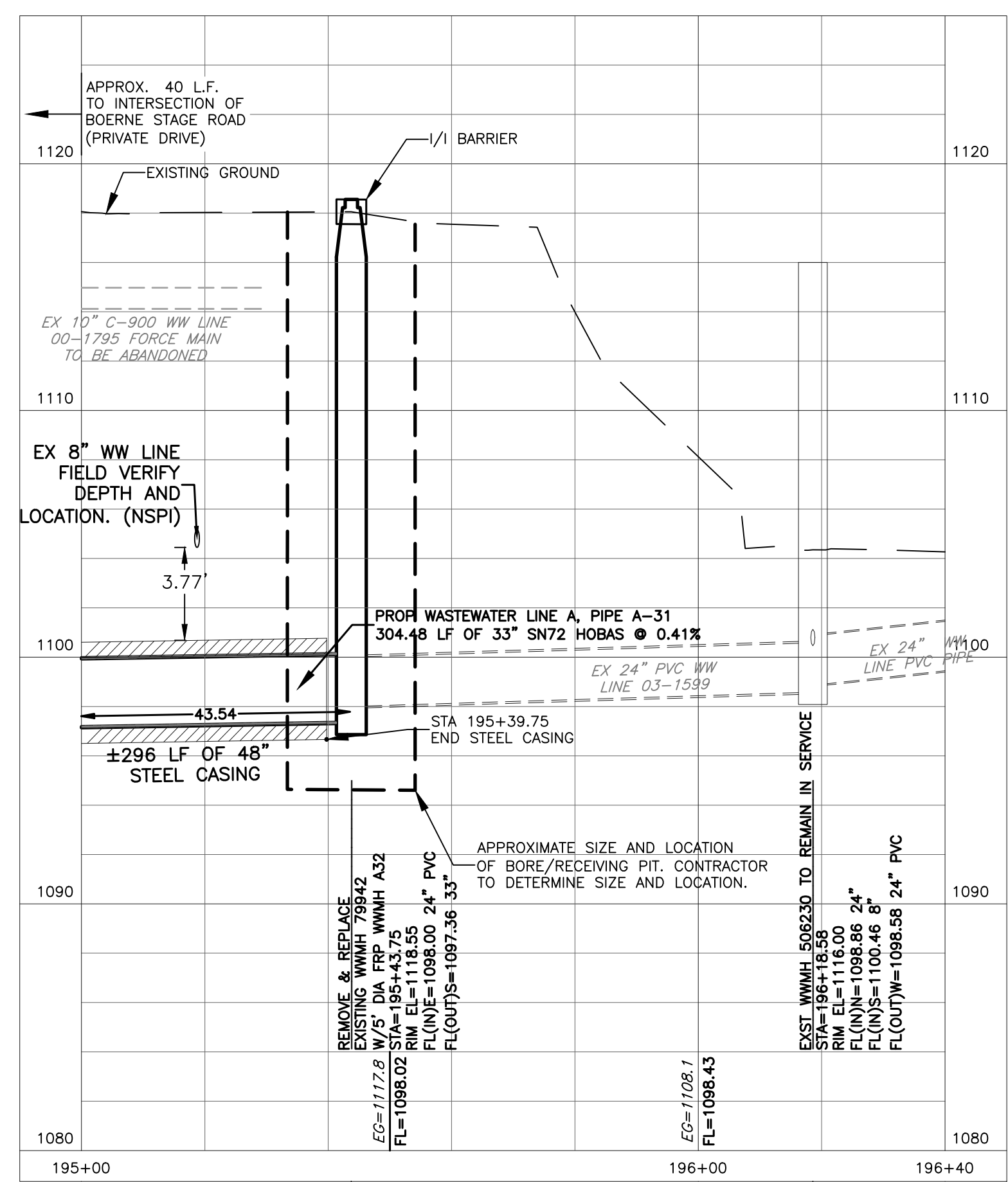
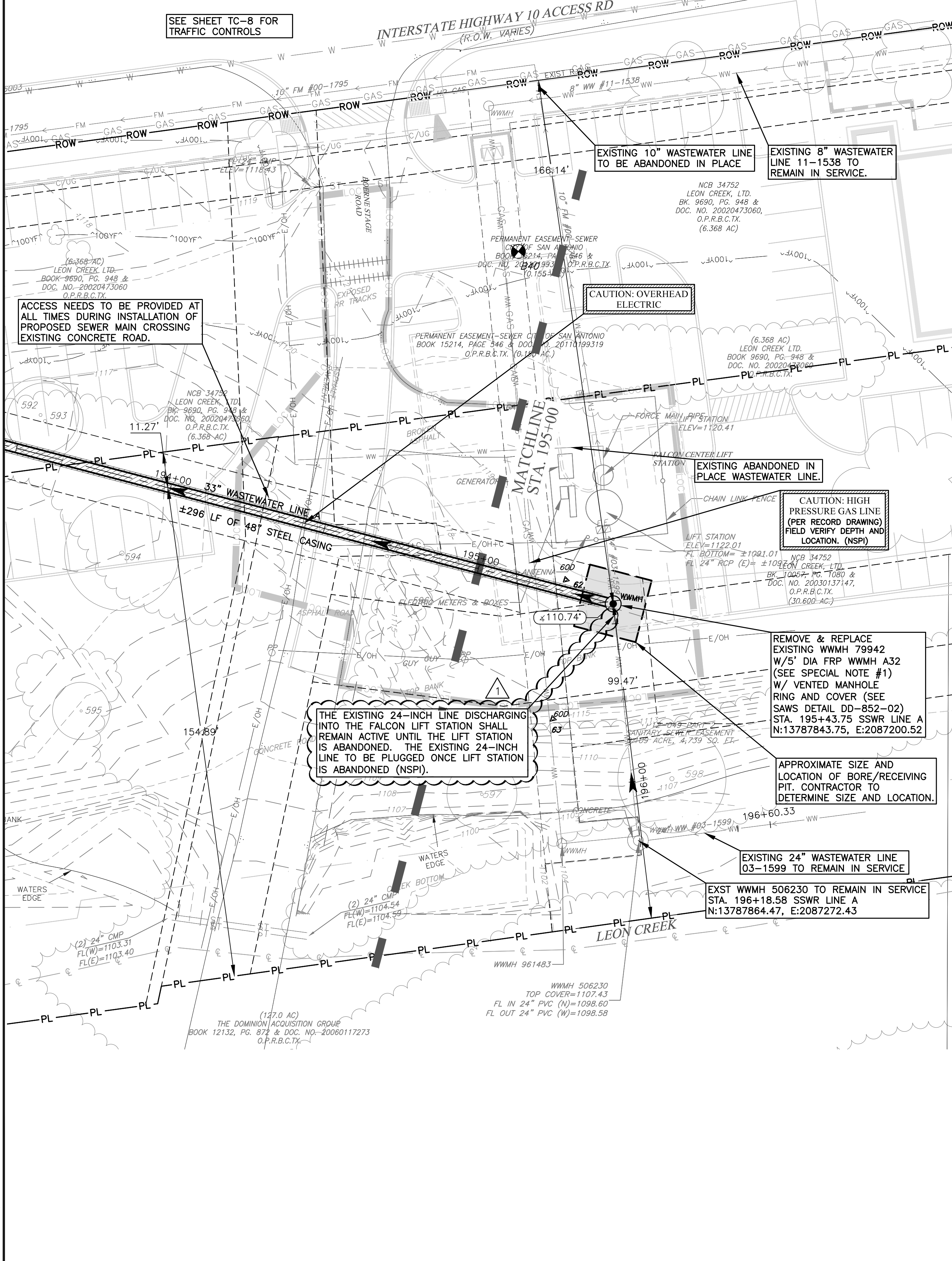


- NOTES:
- FOR PLACEMENT OF EROSION & SEDIMENTATION CONTROLS & TREE PROTECTION FENCING, SEE EROSION & SEDIMENTATION CONTROL AND TREE PROTECTION PLANS.
 - THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE PLANS AND THE ORIGINAL SURVEY AND ARE NOT GUARANTEED FOR ACCURACY OR TO BE CURRENT. THE LOCATIONS OF UTILITIES SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE START OF WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS.
 - THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING ANY DISCREPANCIES BETWEEN THE LOCATIONS OF EXISTING UTILITIES ON THE PLANS AND ACTUAL FIELD LOCATIONS.
 - CONTRACTOR TO CENTER ONE JOINT OF PIPE AT WATER LINE CROSSINGS
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING WATER AND WASTEWATER SERVICES TO ALL RESIDENTS DURING CONSTRUCTION (NSPI).
 - CONTRACTOR IS RESPONSIBLE FOR LOCATING AND REPAIRING ANY UTILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO SAWS.
 - CONTRACTOR IS RESPONSIBLE FOR CONTACTING GREY FOREST UTILITIES (GFU) IF ANY STEEL PIPE COATING OR WRAP IS DAMAGED OR CHIPPED OFF DURING CONSTRUCTION. CONTACT GFU AT (210) 695-5992 TO REPORT INCIDENT PRIOR TO ANY BACKFILL OF THE EXCAVATED AREA.

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.

CAUTION!!!
CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER AND/OR AROUND OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL COORDINATE WITH CPS ENERGY TO ESTABLISH THE MAXIMUM WORKING HEIGHT FROM GROUND ELEVATION. COORDINATE ALL WORK WITH CPS ENERGY.

- SPECIAL NOTES:**
- THE REMOVAL AND DISPOSAL OF EXISTING MANHOLE #79942 WILL BE INCIDENTAL TO THE INSTALLATION OF PROPOSED MANHOLE A32. THERE WILL BE NO SEPARATE PAY ITEM FOR ITS REMOVAL.
 - THE CONTRACTOR SHALL SUPPORT OR BRACE POWER POLES IN THIS AREA AS NEEDED (NSPI).
 - THE CONTRACTOR SHALL PROVIDE THE PROPERTY OWNER A WRITTEN NOTICE OF INITIAL ENTRY 10 DAYS PRIOR TO START CONSTRUCTION WITHIN THEIR PROPERTY.



CAS CONSULTING & SERVICES, INC.
CIVIL ENGINEERING | PROGRAM MANAGEMENT | CONSTRUCTION MANAGEMENT
14100 San Pedro Ave., Suite 405 | San Antonio, TX 78222 | REG. NO. F-005372
Main: 210.248.9083 | Fax: 512.856.4915

SAN ANTONIO WATER SYSTEM
W31: IH-10 BOERNE STAGE TO OLD FREDERICKSBURG
SAWS JOB NO. 09-2502

WASTEWATER LINE A PLAN AND PROFILE 42
STA. 195+00 TO STA. 196+40

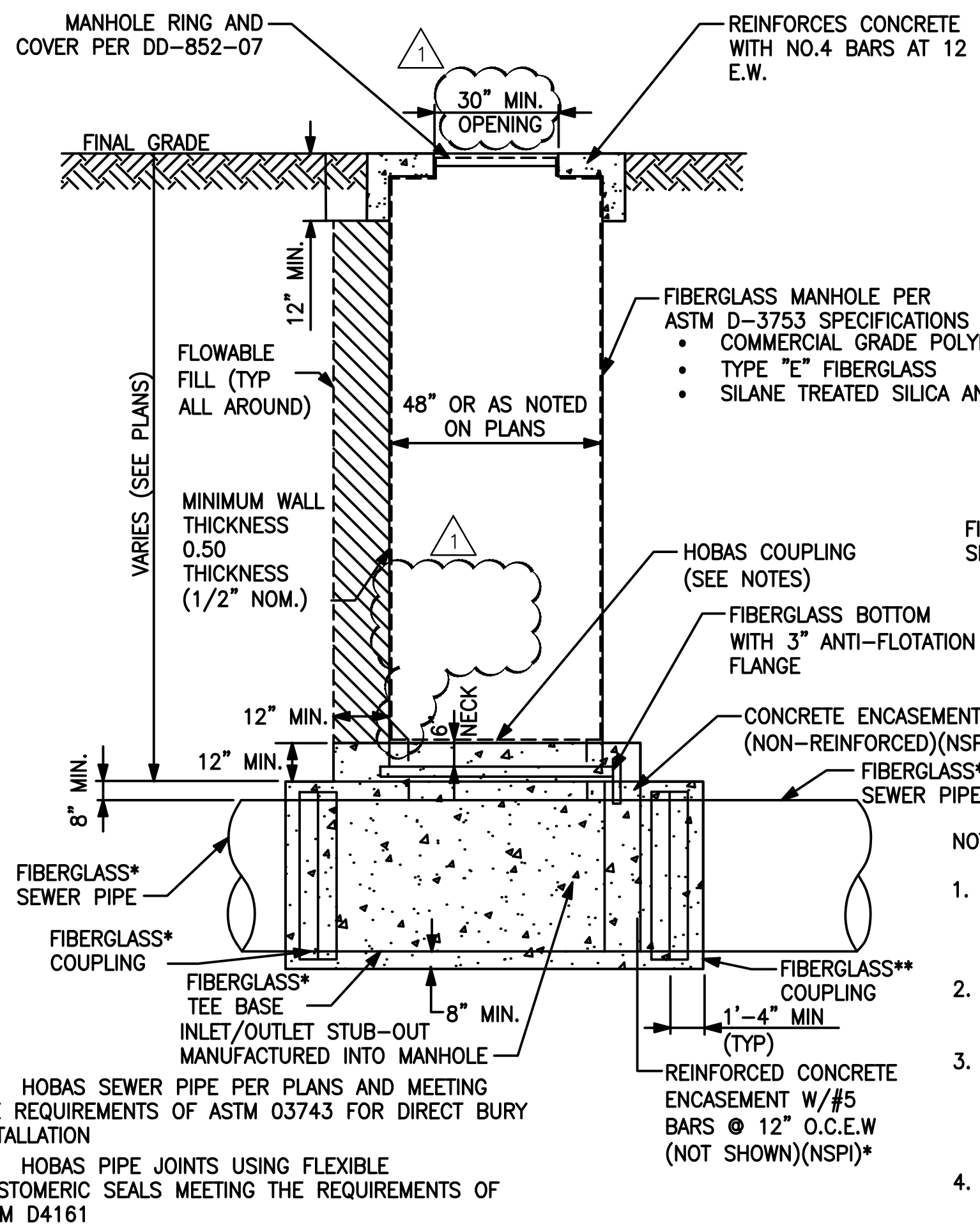
NOTES	NAME	DATE
SURVEY BY	MACIAS	08/2010
DRAWN BY	BV,JW,PS	06/2016
CHECKED BY	TR	06/2016
DESIGNED BY	TR	06/2016
REVIEWED BY	GS	06/2016

SCALE: AS SHOWN
CADD FILE: 2002SSWP42.DWG
CADD DIR: \\ACTIVE\PROJECTS\SAWS\WESTERN EXERCISE\03\DWG\WORK PROCESS\SAWS.DWG
PLOT DATE: 10/3/16

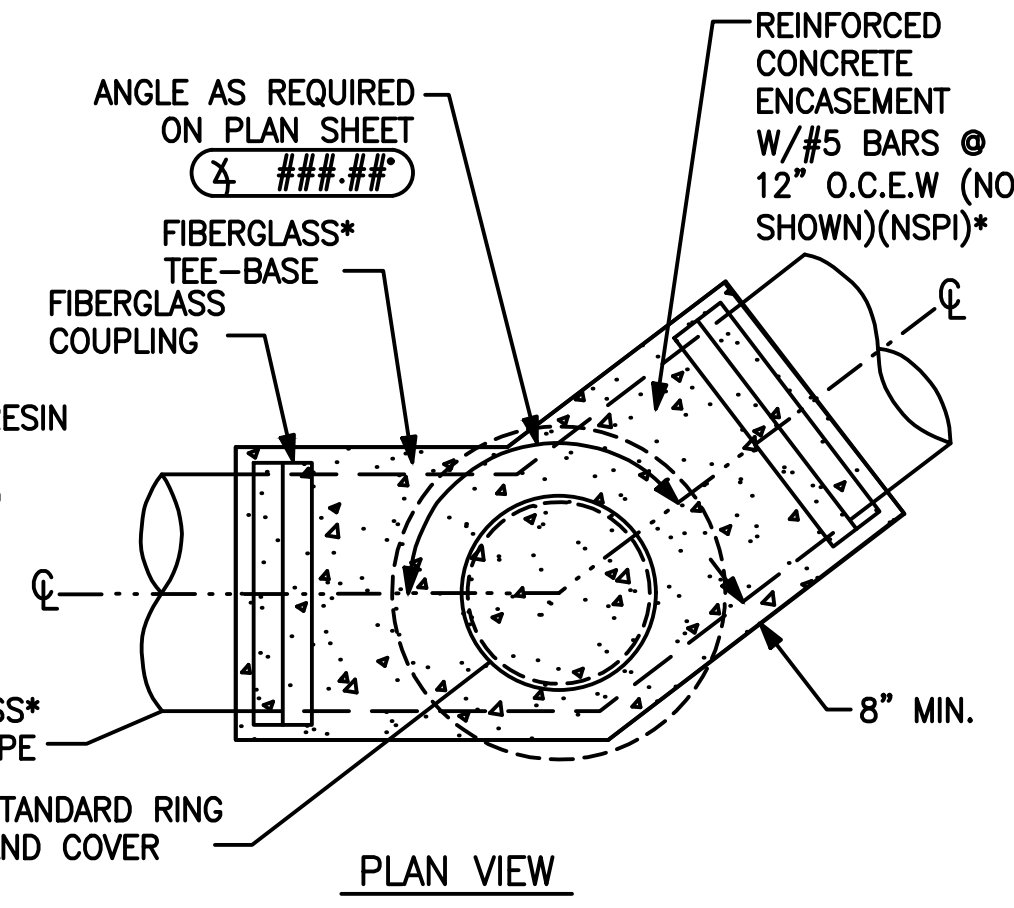
SHEET NUMBER: C-46
SHEET 99 OF 135

CADFILE:\active\projects\saWS\western_exercise_b\3.0\work_products\3.6_cad\2002SSWP42.dwg Plotted: Oct 03, 16 @ 12:05 pm by Judy Willig Scale: 1:1

CADFILE:\active_projects\sewer_western_extension_b\3.0_work_products\3.6_cad\2002Dtls_01.dwg Plotted: Oct 03, 16 @ 2:42 pm by: Judy Millig Scale: 1:0.1



A TEE-BASE FIBERGLASS MANHOLE DETAIL
NOT TO SCALE



B TEE-BASE FIBERGLASS DROP MANHOLE DETAIL
NOT TO SCALE

- NOTES:
- ENCASEMENT TO BE DESIGNED TO RESIST ALL TEE BASE DEFORMATION AND IS TO EXTEND PAST THE FIRST JOINT ON EITHER SIDE OF THE TEE BASE BY 1' TO 3'.
 - ALL CONCRETE ENCASEMENT REQUIRED FOR TEE BASE MANHOLES SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF MANHOLES.
 - BACKFILL AROUND THE MANHOLE SHALL BE FLOWABLE FILL WITH A MINIMUM THICKNESS OF 12-INCHES AND FILL SHALL BE PLACED WITHIN 12-INCHES OF FINAL GRADE. THIS COST SHALL BE SUBSIDIARY TO THE COST OF THE MANHOLE.
 - OVER EXCAVATION WITHIN MARL OR LIMESTONE AREAS FOR PLACEMENT OF SANITARY SEWER MANHOLES AND STRUCTURES SHALL BE BACKFILLED WITH REGARDS TO FLOWABLE FILL AND ASTM D448 AGGREGATE. THIS COST SHALL BE SUBSIDIARY TO THE COST OF THE MANHOLE OR STRUCTURE.
 - TEE BASES FOR LINE A MANHOLES SHALL BE SIZED AS FOLLOWS:

MAINLINE SIZE (TEE RUN)	MANHOLE RISER OPENING SIZE (TEE BRANCH)
42"	36"
36"	36"
33"	33"

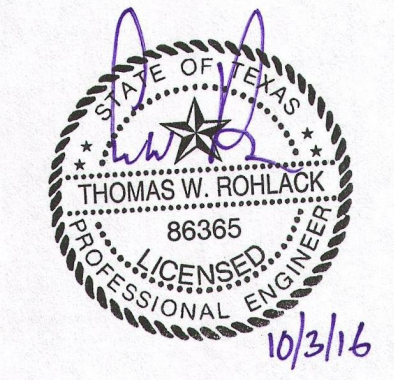
THESE TEE RUN AND BRANCH SIZES ARE THOSE REFERENCED IN THE BID ITEMS.

MANUFACTURER SHALL INSTALL PIPE STUB-OUT WITH 2" PROTRUSION INTO TEE BASE. IF STUBOUT IS NOT PROVIDED, USE MANUFACTURER'S LATERAL CONNECTION BOOT OR PROVIDE 1" DEEP GAP INTO CONCRETE ENCASEMENT. FILL GAP WITH EPOXY GROUT.

AT MANHOLES WITH DROP PIPES, THE FRP TEE BRANCH SHALL BE EXTENDED IF REQUIRED TO FACILITATE THE DROP PIPE CONNECTION

- NOTES:
- WHERE GROUND COVER IS NOT SUFFICIENT TO ALLOW EXTENSION OF THE MANHOLE RISER 10' FROM THE FINISHED GROUND TO TOP OF PVC CAP, DROP PIPE STUBOUT SHALL EXTEND UPWARD SUCH THAT THE TOP OF PVC CAP IS 3' ABOVE TEE BASE CONCRETE ENCASEMENT.
 - ORIENTATION OF DROP PIPE IS ASSUMED TO BE 90' FROM OUTFALL ALIGNMENT UNLESS OTHERWISE NOTED ON PLAN AND PROFILE SHEET. (THE ONLY EXCEPTION IS MHA06).
 - EXCAVATION, TRENCHING AND BACKFILL SHALL BE CONDUCTED IN ACCORDANCE WITH SAWS ITEM NO. 804. REFER TO PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.
 - BACKFILL AROUND MANHOLE SHALL BE FLOWABLE FILL WITH A MINIMUM THICKNESS OF 12-INCHES AND FILL SHALL BE PLACED WITHIN 12-INCHES OF FINAL GRADE. THIS COST SHALL BE SUBSIDIARY TO THE COST OF THE MANHOLE.

REV. NO.	DATE	REVISION DESCRIPTION
1	TWR 10/3/16	ADDENDUM # 2



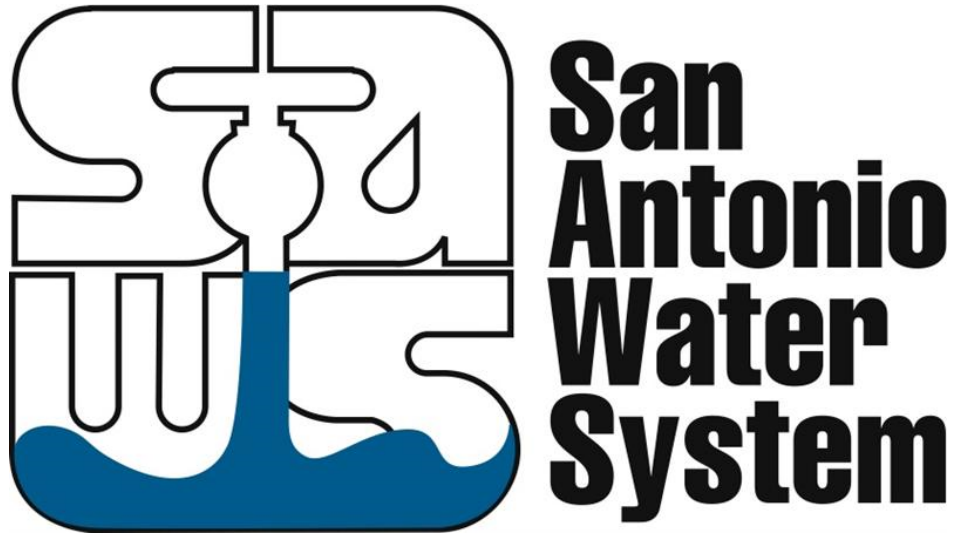
CAS CONSULTING & SERVICES, INC.
 CIVIL ENGINEERING | PROGRAM MANAGEMENT | CONSTRUCTION MANAGEMENT
 14100 San Pedro Ave., Suite 405 | San Antonio, TX 78232 | REG. NO. F-003572
 Main: 210.248.5083 | Fax: 512.836.4515

SAN ANTONIO WATER SYSTEM
 W31: IH-10 BOERNE STAGE TO OLD FREDERICKSBURG
 SAWS JOB NO. 09-2502

FIBERGLASS MANHOLE DETAIL 01
 SHEET 1 OF 2

NOTES	NAME	DATE
SURVEY BY	MACIAS	08/2010
DRAWN BY	BV,JW,PS	06/2016
CHECKED BY	TR	06/2016
DESIGNED BY	TR	06/2016
REVIEWED BY	GS	06/2016
SCALE:	AS SHOWN	
CADD FILE:	2002Dtls_01.DWG	
CADD DR:	E:\ACTIVE PROJECTS\SAWS WESTERN EXTENSION 0310 WORK PRODUCTS\3.6 CAD	
PLOT DATE:	10/3/16	

SAN ANTONIO WATER SYSTEMS



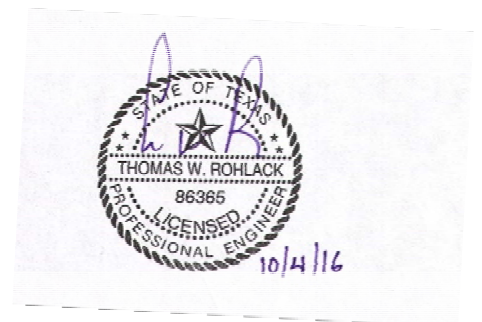
CONTRACT DOCUMENTS

**W-31 IH-10 Boerne Stage to Old
Fredericksburg Sanitary Sewer**

SAWS Job No. 09-2502

SAWS Solicitation No. CO-00068

September 2016



Addendum #2
October 4, 2016

INVITATION TO BIDDERS

Solicitation No. CO-00068

Sealed bids are requested by the San Antonio Water System for the Elimination of the Falcon Lift Station (LS #169) and Woodland Hills Lift Station (LS #232) and replacement of approximately 16,609 linear feet of existing 8-inch, 10-inch and 12-inch force main with approximately 20,000 linear feet of 33-inch, 36-inch and 42-inch gravity sewer main for the **W-31 IH-10 Boerne Stage to Old Fredericksburg Rd. Project**, SAWS Job No. 09-2502.

To view additional project information, as well as obtain the plans and specifications for this project, visit our website located at www.saws.org and click on the Business Center. Then select Bidder, Consultant, and Vendor Registration, which is located on the left-hand side of the screen. Select the Register Now button and proceed with registration.

For difficulties downloading plans and specifications, contact the Contracting Department at 210-233-3894.

For questions regarding this solicitation, technical questions or additional information, please contact Rosalee Arcos, Contract Administrator, in writing via email to: Rosalee.Arcos@saws.org until **4:00 PM (CT)** on **September 29, 2016**. Answers to the questions will be posted to the web site by **4:00 PM (CT)** on **October 04, 2016** as a separate document or included as part of an addendum.

A **mandatory** pre-bid meeting will be held at **10:00 AM (CT) on September 27, 2016** at the San Antonio Water System's Customer Service Building, 1st floor, Conference Room CR-C145, 2800 U.S. Hwy 281 North, San Antonio, Texas. Please be advised that under no circumstances shall any late or non-attendee(s) to the Mandatory Pre-Bid Meeting be allowed to submit a bid for the project.

Sealed bids will be received by the Contract Administration Division, 2800 U.S. Hwy 281 North, Customer Center Building, Suite 171, San Antonio, Texas 78212, **until 2:00 PM (CT), October 7, 2016**. Bids will then be publicly opened and read aloud in Contract Administration, CR-C137, Customer Center Building, 2800 U.S. Hwy 281 North, San Antonio, Texas. Each bid must be accompanied by a cashier's check, certified check, or bid bond in an amount not less than five percent of the total bid price.

This contract is contingent upon release of funds from the Texas Water Development Board.

Any contract or contracts awarded under this Invitation for Bids (IFB) are expected to be funded in part by financial assistance from the Texas Water Development Board (TWDB). Neither the State of Texas nor any of its departments, agencies, or employees are or will be a party to this IFB or any resulting contract.

Equal Opportunity in Employment – All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age, handicap, or national origin. The contractor shall carry out applicable requirements of 40CFR Part 33 in the award and administration of contracts awarded under TWDB financial assistance agreements. Failure by the contractor to carry out these requirements is a material breach, which may result in the termination of the awarded financial assistance.

Any contract(s) awarded under this Invitation for Bids is subject to the American Iron and Steel (AIS) requirements of Section 608 of the Federal Water Pollution Control Act.

All laborers and mechanics employed by contractors and subcontractors on projects funded directly by or assisted in whole or in part by and through the Clean Water State Revolving Fund or Drinking Water State Revolving Fund shall be paid wages at rates not less than those prevailing on projects of a character similar in the locality as determined by the Secretary of Labor in accordance with subchapter IV of chapter 31 of title 40, United States Code. Wages to be paid on this project will be governed by the Department of Labor Wage General Decision or Decisions included in the bid documents for this project.

- (c) San Antonio Water System (SAWS) Board of Trustees regarding the bid from the time the project is released until it has been acted upon by the Board of Trustees.

Bidders or their representatives are prohibited from communicating with SAWS employees regarding this bid, except as provided under "Technical Questions," from the time the project is released until the contract is awarded.

This includes "thank you" letters, phone calls, emails, and any contact that results in the direct or indirect discussion of the project and/or proposal submitted by Bidders.

Violation of this provision by the Bidder and/or their agent may lead to disqualification of the bidder's proposal from consideration.

- 23. Contractor shall comply with the "WORKERS COMPENSATION INSURANCE COVERAGE REQUIREMENTS" as noted on Section 5.7 CONTRACTOR'S INSURANCE REQUIREMENTS of the General Conditions for further clarification.
- 24. To assist the San Antonio Water System Contracting Office in performing the bidder evaluation and subsequent recommendation of award, the apparent low bidder will submit the following items within one (1) day of the bid opening. Failure to provide the required information within the specific time, may result in determining a non-responsive bidder:
 - (a) An information packet on company showing experience, organization and equipment.
 - (b) A statement regarding ability to complete the project within the schedule taking into account existing commitments.
 - (c) Record of performance on three (3) similar projects completed within the last 5 years including name of project, amount of project, project duration, name, address, and telephone number of contact person for each project.
 - (d) A completed and signed W-9 Request for Taxpayer Identification Number and Certification form.
 - (e) **For projects with a construction estimate of \$10,000,000 or greater:**
A complete financial statement for your organization that was prepared within the past 12 months, by an independent Certified Public Accountant, and a point of contact for your banking institution.
- 25. This contract is contingent upon release of funds from the Water Development Board. Any contract or contracts awarded under this Invitation for Bids are expected to be funded in part by a loan or grant from the Texas Water Development Board, and a grant from the United States Environmental Protection Agency (U.S. EPA.) Neither the State of Texas, or U.S. EPA nor any of its departments, agencies, or employees are or will be a party to this Invitation for Bids or any resulting contract.
- 26. A governmental entity may not award a governmental contract to a nonresident bidder unless the nonresident underbids the lowest bid submitted by a responsible resident bidder by an amount that is not less than the amount by which a resident bidder would be required to underbid the nonresident bidder to obtain a comparable contract in the state in which the nonresident's principal place of business is located. A non-resident bidder is a contractor whose corporate offices or principal place of business is outside of the state of Texas. (Source: Texas Government Code Chapter 2252 Subchapter A Nonresident Bidders, (§ 2252.002) The bidder will complete form TWDB-0459 which must be submitted with the bid.
 - Forms to be submitted with Bid:
 - Bidder's Certifications regarding Equal Employment Opportunity and Non-Segregated Facilities (WRD-255)
 - Vendor Compliance with Non-Resident Bidder Requirements, TWDB-0459

Addendum 2
October 4, 2016

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 to wit:

(PLEASE SEE ATTACHED PDF LIST OF BID ITEMS)

TOTAL BID PRICE \$ _____

Mobilization and Prep of ROW shall be limited to the maximum percentage shown. **If the percentage 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.**

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 Nos. _____

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 **540** calendar days after the start date, or until funds are exhausted, whichever comes first, 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.

W31: IH-10 Boerne Stage to Old Fredericksburg Sanitary Sewer (JOB #09-2502)

Item No.	General Sewer Bid Items	Unit	Qty.	Unit Price	Total Price	
1	160.1 (TXDOT)	FURNISHING AND PLACING TOP SOIL 4" THICKNESS	SY	60,161	\$	\$
2	161.1 (TXDOT)	GENERAL USE COMPOST 1" THICKNESS	SY	60,161	\$	\$
3	164.1 (TXDOT)	SEEDING FOR EROSION CONTROL (REVEGETATION)	SY	60,161	\$	\$
4	169.1 (TXDOT)	EROSION CONTROL MATTING (SRB, TYPE A OR C)	SY	36,575	\$	\$
5	205.4 (COSA)	HOT MIX ASPHALTIC PAVEMENT TYPE D, 2" PAVEMENT THICKNESS	SY	250	\$	\$
6	208.1 (COSA)	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT (2")	SY	250	\$	\$
7	230.1 (COSA)	REMOVE AND REPLACE DRIVEWAY (3", TYPE D HMAC, 8" FLEX BASE)	SY	145	\$	\$
8	230.2 (COSA)	REMOVE AND REPLACE DRIVEWAY (6" CONCRETE, 8" FLEX BASE) (AIS)	SY	78	\$	\$
9	502.1 (TXDOT)	BARRICADES, SIGN, TRAFFIC HANDLING (AIS)	LS	1	\$	\$
10	540.1 (COSA)	ROCK FILTER DAM (TYPE 4) (INSTALL) (AIS)	LF	695	\$	\$
11	540.2 (COSA)	ROCK FILTER DAM (TYPE 4) (REMOVE)	LF	695	\$	\$
12	540.9 (COSA)	TEMPORARY SEDIMENT CONTROL FENCE (AIS)	LF	34,333	\$	\$
13	540.61 (COSA)	CONSTRUCTION EXIT (INSTALL)	SY	1,360	\$	\$
14	540.62 (COSA)	CONSTRUCTION EXIT (REMOVE)	SY	1,360	\$	\$
15	540.TFD (COSA)	TRIANGULAR FILTER DIKE (AIS)	LF	258	\$	\$
16	550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	14,520	\$	\$
17	801.1/2 (COSA)	TREE PROTECTION FENCING (1.1.2 AND 1.1.3) (AIS)	LF	2,422	\$	\$
18	802.1/2 (COSA)	LEVEL I & II PRUNING	EA	51	\$	\$
19	848.8PVC	8-INCH PVC ASTM D-3034 DR 26, OPEN CUT (ALL DEPTHS)	LF	30	\$	\$
20	848.12PVC	12-INCH PVC ASTM D-3034 DR 26, OPEN CUT (ALL DEPTHS)	LF	24	\$	\$
21	848.21PVC	21-INCH PVC, PS46, ASTM F679 OPEN CUT (ALL DEPTHS)	LF	16	\$	\$
22	853.4FRP	4-FOOT DIAMETER FRP SANITARY MH (0-6) (AIS)	EA	2	\$	\$
23	853.4FRPED	EXTRA DEPTH 4-FOOT DIA.RFP SANITARY MH (>6)	VF	18	\$	\$
24	853.5FRPA01	5-FOOT DIAMETER FRP SANITARY MH A01 (0-6) (AIS)	EA	1	\$	\$
25	853.5FRPA32	5-FOOT DIAMETER FRP SANITARY MH A32 (0-6) (AIS)	EA	1	\$	\$
26	853.5FRPED	EXTRA DEPTH 5-FOOT DIA.RFP SANITARY MH (>6)	VF	28	\$	\$
27	853.T33	33"X33" T-BASE MH W/4-FOOT DIA FRP RISER (0-6) (AIS)	EA	10	\$	\$
28	853.T36	36"X36" T-BASE MH W/4-FOOT DIA FRP RISER (0-6) (AIS)	EA	13	\$	\$
29	853.T42	42"X36" T-BASE MH W/4-FOOT DIA FRP RISER (0-6) (AIS)	EA	6	\$	\$
30	853.TD42	42"X36" T-BASE DROP MH W/4-FOOT DIA FRP RISER (0-6) (AIS)	EA	1	\$	\$
31	853.TED	EXTRA DEPTH 4-FT FRP DIA RISER ON T-BASE MH (>6)	VF	357	\$	\$
32	853.TDED	EXTRA DEPTH T-BASE MH 4-FT DIA FRP RISER, W/ DROP (>6)	VF	23	\$	\$
33	858.1	CONCRETE ENCASMENT, CRADLES, SADDLES AND COLLARS (AIS)	CY	244	\$	\$
34	862.8x24	REMOVAL OF 8-IN PVC SANITARY SEWER & GROUTING OF 24-IN STEEL CASING	LF	320	\$	\$
35	862.21	ABANDONMENT AND GROUTING OF SANITARY SEWER MAIN, 21-INCH	LF	80	\$	\$
36	862.48MH	48-INCH MANHOLE ABANDONMENT	EA	3	\$	\$
37	864.1	BYPASS PUMPING	LS	1	\$	\$
38	866.1	SEWER MAIN TELEVISION INSPECTION (8" - 15" - POST)	LF	406	\$	\$
39	866.2	SEWER MAIN TELEVISION INSPECTION (18" - 24" - POST)	LF	16	\$	\$
40	866.3	SEWER MAIN TELEVISION INSPECTION (+30" - POST)	LF	18,522	\$	\$
41	SS-1005.LS1	FALCON CENTER LIFT STATION DECOMMISSIONING	LS	1	\$	\$
42	SS-1005.LS2	WOODLAND HILLS LIFT STATION DECOMMISSIONING	LS	1	\$	\$
43	SS-5001-42.14-18	42-INCH HOBAS SN72, OPEN CUT (14-18 DEPTH)	LF	329	\$	\$
44	SS-5001-42.18-22	42-INCH HOBAS SN72, OPEN CUT (18-22 DEPTH)	LF	542	\$	\$
45	SS-5001-42.22+	42-INCH HOBAS SN72, OPEN CUT (22+ DEPTH)	LF	203	\$	\$
46	SS-5001-36.6-10	36-INCH HOBAS SN72, OPEN CUT (6-10 DEPTH)	LF	219	\$	\$
47	SS-5001-36.10-14	36-INCH HOBAS SN72, OPEN CUT (10-14 DEPTH)	LF	1,713	\$	\$
48	SS-5001-36.14-18	36-INCH HOBAS SN72, OPEN CUT (14-18 DEPTH)	LF	5,608	\$	\$
49	SS-5001-36.18-22	36-INCH HOBAS SN72, OPEN CUT (18-22 DEPTH)	LF	242	\$	\$
50	SS-5001-33.6-10	33-INCH HOBAS SN72, OPEN CUT (6-10 DEPTH)	LF	138	\$	\$
51	SS-5001-33.10-14	33-INCH HOBAS SN72, OPEN CUT (10-14 DEPTH)	LF	1,602	\$	\$
52	SS-5001-33.14-18	33-INCH HOBAS SN72, OPEN CUT (14-18 DEPTH)	LF	261	\$	\$
53	SS-5001-33.18-22	33-INCH HOBAS SN72, OPEN CUT (18-22 DEPTH)	LF	1,611	\$	\$
54	SS-5001-33.22+	33-INCH HOBAS SN72, OPEN CUT (22+ DEPTH)	LF	1,802	\$	\$
55	SS-5003-24T/C	TUNNELING & 24-INCH PRIMARY CASING (STEEL) (AIS)	LF	382	\$	\$
56	SS-5003-48T/C	TUNNELING & 48-INCH PRIMARY CASING (STEEL) (AIS)	LF	749	\$	\$
57	SS-5003-54T/C	TUNNELING & 54-INCH PRIMARY CASING (STEEL) (AIS)	LF	595	\$	\$
58	SS-5003-60T/C	TUNNELING & 60-INCH PRIMARY CASING (STEEL) (AIS)	LF	2,911	\$	\$
59	SS-5004.12	12-IN PVC ASTM D-3034, DR 26 CARRIER PIPE INSTALLED IN TUNNEL/CASING (AIS)	LF	382	\$	\$
60	SS-5004.33	33-INCH HOBAS SN72 CARRIER PIPE INSTALLED IN TUNNEL/CASING (AIS)	LF	749	\$	\$

61	SS-5004.36	36-INCH HOBAS SN72 CARRIER PIPE INSTALLED IN TUNNEL/CASING (AIS)	LF	595	\$		\$
62	SS-5004.42	42-INCH HOBAS SN72 CARRIER PIPE INSTALLED IN TUNNEL/CASING (AIS)	LF	2,911	\$		\$
63	SS-1004.SUE	SUBSURFACE UTILITY ENGINEERING (SUE) OR 'POTHOLING' OF UTILITIES (ALL DEPTHS)	EA	15	\$		\$
64	SS-1004.ALW-GAS	ALLOWANCE FOR THE RELOCATION OR ADJUSTMENT OF GAS FACILITIES	ALW	1	\$	\$ 20,000.00	\$ 20,000.00
65	SS-1004.ALW-UG COM	ALLOWANCE FOR THE RELOCATION OR ADJUSTMENT OF UNDERGROUND COMMUNICATION FACILITIES	ALW	1	\$	\$ 50,000.00	\$ 50,000.00
66	100.1	MOBILIZATION (MAXIMUM OF 10% OF THE TOTAL OF LINE ITEMS 1-65)	LS	1	\$		\$
67	101.1	PREPARATION OF RIGHT-OF-WAY (MAX. 5% OF THE TOTAL OF LINE ITEMS 1-65)	LS	1	\$		\$
68	100.2	INTERMEDIATE DEMOBILIZATION AND REMOBILIZATION	EA	2	\$		\$

TOTAL BID AMOUNT

\$	
----	--

BP-3

Addendum 2
October 4, 2016

SP-4 REVISION TO [COSA] STANDARD SPECIFICATION ITEM NOS 230 BASE AND PAVEMENT REPLACEMENT

Delete existing sections **230.1 DESCRIPTION** and replace with the following:

Repair localized sections of flexible pavement and full depth repair of concrete pavement including subgrade, base, and surfacing for the limits and indicated and as called for on the plans due to distress from construction and/or traffic loading, environment, or other causes as a direct result of the construction of this project. For simplicity, this item shall apply to all pavement repair whether the trench width is less than or more than 6 feet.

In **230.4 Construction, C. Mixing and Placing Base Material**, revise paragraph 1 as follows:

1. **Flexible Base.** *Reuse existing base and add new flexible base as required in accordance with Item 200, "Flexible Base". A certain type of flexible base is not indicated on the plans but unless otherwise approved, the contractor shall provide Type D supplemented with Type A flex base material.*

Revise the bid items in sections **230.7. BID ITEM** as follows:

Item 230.1 – *Remove and Replace Driveway (3", Type D HMAC, 8" Flex Base) - per square yard*

Item 230.2 - *Remove and Replace Driveway (6", Concrete, 8" Flex Base) - per square yard*

SP-5 REVISION TO [COSA] STANDARD SPECIFICATION ITEM NOS 200 (FLEXIBLE BASE), 202 (PRIME COAT), 203 (TACK COAT), 205 (HOT MIX ASPHALTIC CONCRETE PAVEMENT), 209 (CONCRETE PAVEMENT)

Delete all existing sections Measurement and **Payment** Sections and replace with the following:

There will be no separate measurement and payment for this item. The work performed, materials furnished, equipment, labor, tools, and incidentals will not be measured or paid for directly but considered subsidiary to Pay Items 230.1 and/or 230.2. Item 230 is Base and Pavement Replacement and shall constitute the pay item for pavement replacement for the project.

SP-6 REVISION TO [SAWS] STANDARD SPECIFICATION ITEM NO. 300 (CONCRETE (NATURAL AGGREGATE))

Delete existing sections **300.5 Payment** and replace with the following:

300.5. Payment. *This SAWS Standard Specification is included for use with Item 858 Concrete Encasement, Cradles, Saddles and Collars. The payment for that bid item (858.1) shall be full compensation for this concrete item and its use for any other purpose, i.e., Manhole Ring Encasement, shall be incidental to those items of work for which it is required.*

SP-7 REVISION TO [TXDOT] STANDARD SPECIFICATION ITEM NO. 502 (BARRICADES, SIGNS, AND TRAFFIC HANDLING)

Replace **502.3 Measurement** with the following:

502.3. Measurement. *This item will be measured by "Lump Sum" as indicated on the plans.*

Replace **502.4 Payment** with the following:

502.4. Payment. *This item will be paid for at the contract lump sum price bid for "barricades, signs, and traffic handling". This price shall be full compensation for*

SPTS-2

furnishing all labor, materials, supplies, equipment and incidentals necessary to complete the work as specified. Failure to complete the work within time allowed in the project contract due to approving designs, testing, material shortages, closed construction season, curing periods, and testing periods will not qualify for additional compensation. When additional work is added by an approved field alteration or when work is suspended for the convenience of the Owner, through no fault of the contractor, additional compensation may be paid to the Contractors.

SP-8 REVISION TO [COSA] STANDARD SPECIFICATION ITEM NO. 540 (TEMPORARY EROSION, SEDIMENTATION AND WATER POLLUTION PREVENTION AND CONTROL)

In Section **540.7 BID ITEM**: Delete Item 540.6 Construction Exits (Install/Remove) – per square yard and replace with the following two separate pay items:

***Item 540.61** - Construction Exits (Install) - per square yard*

***Item 540.62** - Construction Exits (Remove) - per square yard*

In Section **540.7 BID ITEM**: Add the following bid item for Triangular Filter Dike, to be provided per the detail on Sheet EC-30 of the plans.

***Item 540.TFD** – Triangular Filter Dike – per linear foot*

SP-9 REVISION TO [COSA] STANDARD SPECIFICATION ITEM NO. 801 (TREE AND LANDSCAPE PROTECTION)

Delete the following existing bid items from the **BID ITEMS** section

***Item 801.1**: Level I Protection Fencing – per linear foot (meter)*

***Item 801.2**: Level IIA Protection Fencing – per linear foot (meter)*

***Item 801.3**: Level IIB Protection Fencing – per linear foot (meter)*

Replace with the following bid item which combines Items 801.1 and 801.2:

***Item 801.1/2**: Tree Protection Fencing (1.1.2 and 1.1.3) – per linear foot*

Explanation - This price shall be full compensation for equipment, materials, labor, tools, and incidentals to provide the Level 1 (1.1.2) and Level IIA (1.1.3) Protective Fencing shown on the plans. No quantity distinction has been made between the types of protective fencing shown for the various trees. Payment for the required tree protection fencing will be made under this combined bid item. Further, the tree protection fencing identified on EC-1, EC-2 and sheets EC-7 through EC-28 indicate only Level 1 or IIA Protective Fencing and that is based on a minimum fencing distance of 5 feet from each tree. If the Contractor deems it advantageous to increase available working area and by providing Level IIB Projection, which would allow the LOC to expand, no compensation in addition to the originally bid tree protection will be provided.

SP-10 REVISION TO [COSA] STANDARD SPECIFICATION ITEM NO. 802 (TREE PRUNING, SOIL AMENDING AND FERTILIZATION)

Delete the following existing bid items from the **BID ITEMS** section

***Item 802.1**: Level I Pruning, Soil Amendment, and Fertilization – per each tree*

Replace with the following bid item which combines Items 802.1 and 802.2:

***Item 802.1/2**: Level I & II Pruning – per each tree*

Explanation - The quantity of trees in the base bid is based on the list provided on Sheet EC-1 in which Item 802 services are identified for specific trees. Level 1 & II pruning will be

Special Conditions

Job No 09-2502
W-31 IH-10 Boerne Stage to Old Fredericksburg Sanitary Sewer
Solicitation No. CO-00068

Contractor shall instruct and require its agents and sub-contractors performing any part of the work described in this contract to comply with the requirements of this paragraph.

B. Notification of events that may cause delay.

If any event occurs that may delay performance by Contractor, or Contractor's agents or sub-contractors of any work or obligation of any kind under this contract, Contractor shall provide notice in accordance with the Notice Provisions of this contract to SAWS within two (2) business days of the date Contractor or Contractor's agents or sub-contractors first knew that the event might cause a delay. Contractor shall provide a written explanation and description of the reasons for the delay, the anticipated duration of the delay, all actions taken or to be taken to prevent or minimize the delay, and a schedule for implementation of any measures to be taken to prevent or mitigate the delay or the effect of the delay. **TIME IS OF THE ESSENCE** in the performance of the requirements of this paragraph and of any work to be performed by the Contractor in this contract.

C. Liability for stipulated penalties.

The Consent Decree provides that the United States of America, the United States Environmental Protection Agency and the State of Texas may assess stipulated penalties against SAWS upon the occurrence of certain events. To the extent that Contractor or Contractor's agents or sub-contractors cause or contribute to, in whole or in part, the assessment of any stipulated penalty against SAWS, Contractor agrees that it shall pay to SAWS the full amount of any stipulated penalty assessed against and paid by SAWS that is caused or contributed to in whole or in part by any action, failure to act, or failure to act within the time required by any provision of this contract. Contractor shall also pay to SAWS all costs, attorney fees, expert witness fees and all other fees and expenses incurred by SAWS in connection with the assessment or payment of any such stipulated penalties, or in contesting the assessment or payment of any such stipulated penalties. In addition to any and all other remedies to which SAWS may be entitled at law or in equity, Contractor expressly authorizes SAWS to withhold all amounts assessed and paid as stipulated penalties, and all associated costs, fees, or expenses from any amount unpaid to Contractor under the terms of this contract, or from any retainage provided in the contract.

SC-6 FLOODPLAIN MANAGEMENT DEVELOPMENT PERMIT

Prior to construction activities, SAWS shall obtain a Floodplain Management Development Permit and maintain compliance with its special provision regarding construction activities located in the 100-year floodplain zone.