



2022 CIPP PACKAGE
Solicitation No.CO-00618
Job No. 22-4524

ADDENDUM NO. 1
February 23, 2023

To Bidder of Record:

This addendum, applicable to work referenced above, is an amendment to the bidding documents 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 in the space provided in the submitted bid proposal.

CHANGES TO SPECIFICATIONS

1. Bid Proposal - Remove Bid Proposal and replace with the revised Bid Proposal attached to this Addendum. Updated Bid Proposal Estimated Quantity Table. This version of the bid proposal should be used by bidders when submitting a bid for this project. Failure to use the revised version of the bid proposal may result in the bid being found non-responsive.
2. Special Conditions - Remove first page of the Special Conditions and replace with the revised first page of the Special conditions attached to this addendum.

CHANGES TO THE PLANS

1. Cover Sheet (Sheet 01 of 55) to be removed and replaced with the sheet attached to this Addendum.
 - a. The table of contents has been revised to incorporate the SH16 (Bandera Road Site).
2. General Notes & Quantities (Sheet 02 of 55) to be removed and replaced with the sheet attached to this Addendum.
 - a. The quantity table has been revised to incorporate the quantities for the SH16 (Bandera Road Site).
3. Sanitary sewer plans sheets (25A, 25B, 25C and 25D of 55) have been added to the plans.

CLARIFICATIONS

1. The estimated cost for this project has changed to \$1,080,000.00, which is also now reflected on SAWS website at the following:
https://apps.saws.org/Business_Center/Contractsol/Drill.cfm?id=4197&View=Yes

END OF ADDENDUM 1

This Addendum Including this 1 page is eleven (11) pages in its entirety with the attachments.

Attachments:

Bid Proposal (3 pages)

Special Conditions (1 pages)

Plans Sheets 01, 02, 25A, 25B, 25C and 25D



February 23, 2023

Carl Bain PE
Bain Medina Bain, Inc.

BID PROPOSAL

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

THE SAN ANTONIO WATER SYSTEM:

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

PLEASE SEE ATTACHED LIST OF BID ITEMS.

BIDDER'S SIGNATURE & TITLE

FIRM'S NAME (TYPE OR PRINT)

FIRM'S ADDRESS

FIRM'S PHONE NO. /FAX NO.

FIRM'S EMAIL ADDRESS

The Contractor herein acknowledges receipt of the following: Addendum 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 **180** calendar days after the start date, as set forth in the Authorization to Proceed. **The bidder understands and accepts the provisions of the contract Documents relating to liquidated damages of the project if not completed on time.**

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

Statement on President's Executive Orders

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

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

BID PROPOSAL

NO.	ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	EXTENSION
1	103.1	Remove Concrete Curb (COSA Spec)	LF	56	\$	\$
2	103.3	Remove Concrete Sidewalk & Driveways (COSA Spec)	SF	784	\$	\$
3	160	Topsoil (4") (TxDOT Spec)	SY	50	\$	\$
4	162	St. Augustine Sodding (TxDOT Spec)	SY	50	\$	\$
5	500	Concrete Curb and Gutter (COSA Spec)	LF	56	\$	\$
6	503.3	Portland Cement Concrete Driveway (CoSA Spec)	SY	87	\$	\$
7	516.1	Bermuda Sodding (CoSA Spec)	SY	10	\$	\$
8	530	Barricades, Signs, and Traffic Handling (CoSA Spec) (La Cantera)	LS	1	\$	\$
9	530	Barricades, Signs, And Traffic Handling (CoSA Spec) (Applewhite)	LS	1	\$	\$
10	530	Barricades, Signs, And Traffic Handling, (COSA Spec) (Site 18)	LS	1	\$	\$
11	530	Barricades, Signs, And Traffic Handling, (COSA Spec) (SH 16 Bandera Road)	LS	1	\$	\$
12	540.1	Rock Filter Dam (CoSA Spec)	LF	85	\$	\$
13	540.9	Temporary Sediment Control Fence (CoSA Spec)	LF	80	\$	\$
14	801	Tree Protection (COSA Spec)	LS	1	\$	\$
15	851	Existing Manhole Adjustment	EA	4	\$	\$
16	855	Reconstruction of Existing Manhole	EA	2	\$	\$
17	865	Bypass Pumping (Small Diameter Sanitary Sewer) (La Cantera)	LS	1	\$	\$
18	865	Bypass Pumping (Small Diameter Sanitary Sewer) (Applewhite)	LS	1	\$	\$
19	865	Bypass Pumping (Small Diameter Sanitary Sewer) (Site 18)	LS	1	\$	\$
20	865	Bypass Pumping (Small Diameter Sanitary Sewer) (SH 16 Bandera Road)	LS	1	\$	\$
21	866	Sanitary Sewer Main Television Inspection (8" through 15")	LF	430	\$	\$
22	866	Sanitary Sewer Main Television Inspection (18" through 24")	LF	1,557	\$	\$
23	901	Install CIPP 8" Sanitary Sewer Pipe (Hot Water) (All Depths)	LF	430	\$	\$
24	901	Sanitary Sewer Pre-Liner - 8"	LF	269	\$	\$
25	901	Install CIPP 21" Sanitary Sewer Pipe (Hot Water) (All Depths)	LF	1,557	\$	\$
26	910	Manhole Rehabilitation	VF	120	\$	\$
27	SS1103	Point Repair (21") (Internal)	EA	1	\$	\$
28	1103	Point repairs for 8" Diameter, (0'-10' depth) including up to 20 LF of piping	EA	2	\$	\$
29	1103	Extra length point repair, 8" Diameter, (0'-10' depth)	LF	30	\$	\$

NO.	ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	EXTENSION
30	1103.1	Obstruction Removal By Remote Device, 18" and Larger Dia. (All Depths)	EA	1	\$	\$
31	1109	Service Reconnections (by Remote Control Cutting Device)	EA	5	\$	\$
32	1109	Service Reconnections (by Open Cut Excavation)	EA	1	\$	\$
33	6001	Portable Changeable Message Sign (TxDOT Spec)	EA	7	\$	\$
Subtotal (Line Items 1 - 33)						\$
34	100	Mobilization and Demobilization (Max. 10% of Line Items 1 - 33)	LS	1	\$	\$
35	101	Preparation of Right-of-Way (Max. 5% of Line Items 1 - 33)	LS	1	\$	\$
36	102.1	Intermediate Demobilization and Remobilization	EA	1	\$	\$
Total Bid Price (Line Items 1-36)						\$

Mobilization and Demobilization lump sum bid shall be limited to a maximum 10% of the 1-33 Sub-total Base Bid amount. Preparing Right-of-Way lump sum bid shall be limited to a maximum of 5% of the Line Items 1-33 Sub-total Base Bid amount. The Line Item 1-33 Sub-total base bid is defined as all bid items EXCLUDING Item 100, Mobilization and Demobilization Item 101, Preparing Right-of-Way. In the event of a discrepancy between the written percentage and dollar amount shown for Mobilization and Demobilization and Preparation of ROW bid items the written percentage will govern. If the percentage written exceeds the allowable maximum stated for mobilization , demobilization, 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.

Special Conditions

SC1. It is the intent of the bid proposal and quantities to establish a fixed unit price for various line items to be paid to the Contractor by SAWS during the term of the contract. No change in the unit price will be made, regardless of the actual quantity of the item of work performed during the term of the contract. Some of the work involved in the project may require, but is not limited to, removal and replacement of driveways, sidewalks, concrete curbs, and asphalt replacement.

SC2. Project Requirements

A. Project Milestones

Final completion of all "Project Sites" shall be achieved in 180 calendar days.

The contractor shall take the following schedule constraints into consideration when planning their construction schedule:

- Site La Cantera shall be a prioritized by the contractor, contractor shall place this site as the first site to be rehabilitate for this sewer package. This site is over the Edwards Aquifer Recharge Zone and it shall be completed by May 30, 2023;

- Sites 18 **BPC East Sewershed Package 4A and SH16 (Bandera Road)** shall also be prioritized by the contractor since the sanitary sewer segments are part of the consent decree and shall be completed by June 30, 2023.

B. Permits

Contractor shall not commence any work until applicable permits are obtained. The copies of these permits shall always be kept on site, readily available. Contractor shall always abide by the permitting entities' requirements.

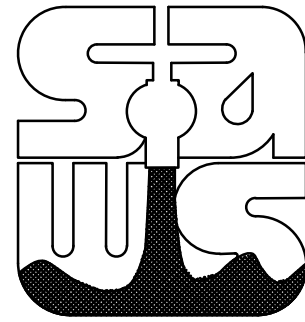
A TxDOT Permit will be required for the La Cantera Parkway Manhole project location located within TxDOT Right-of- Way (ROW). Contractor may not proceed with work within TxDOT ROW until a TxDOT permit has been obtained by SAWS. The Contractor shall meet with the SAWS Inspector, City Inspector and assigned TxDOT inspector two weeks prior to commencing construction on each project location requiring a TxDOT or City permit. Note that TXDOT permits expire on the 90th calendar day from issuance, if construction has not started, the permit may be amended by SAWS for one additional 90-day period (180 calendar days total). If a permit extends beyond 180 calendar days or expires prior to renewal, the permit must be resubmitted to TxDOT by SAWS. TxDOT has up to 30 calendar days for review.

If Contractor elects to use another bypass route other than that which is specified in the plans for sites in TXDOT ROW, Contractor must include the revised bypass plan within the 45-day notice for SAWS to include in the TxDOT permit submittal. Revised bypass plan must be signed and sealed by a Professional Engineer licensed in the state of Texas. Contractor shall bear delays in construction time and costs incurred for not providing the required advance notice to SAWS prior to the permit expiring. Delays resulting in liquidated damage fees shall also be borne by the Contractor.

SAWS has also obtained all applicable CoSA Tree Permit(s) and Floodplain development permit(s) (FPDP) from City of San Antonio. Contractor is responsible for all other required permits per the General Conditions. This includes applying and paying CoSA street cut permits.

Site	Permit Type
La Cantera	TxDOT & FPDP
APPLEWHITE	CoSA & FPDP

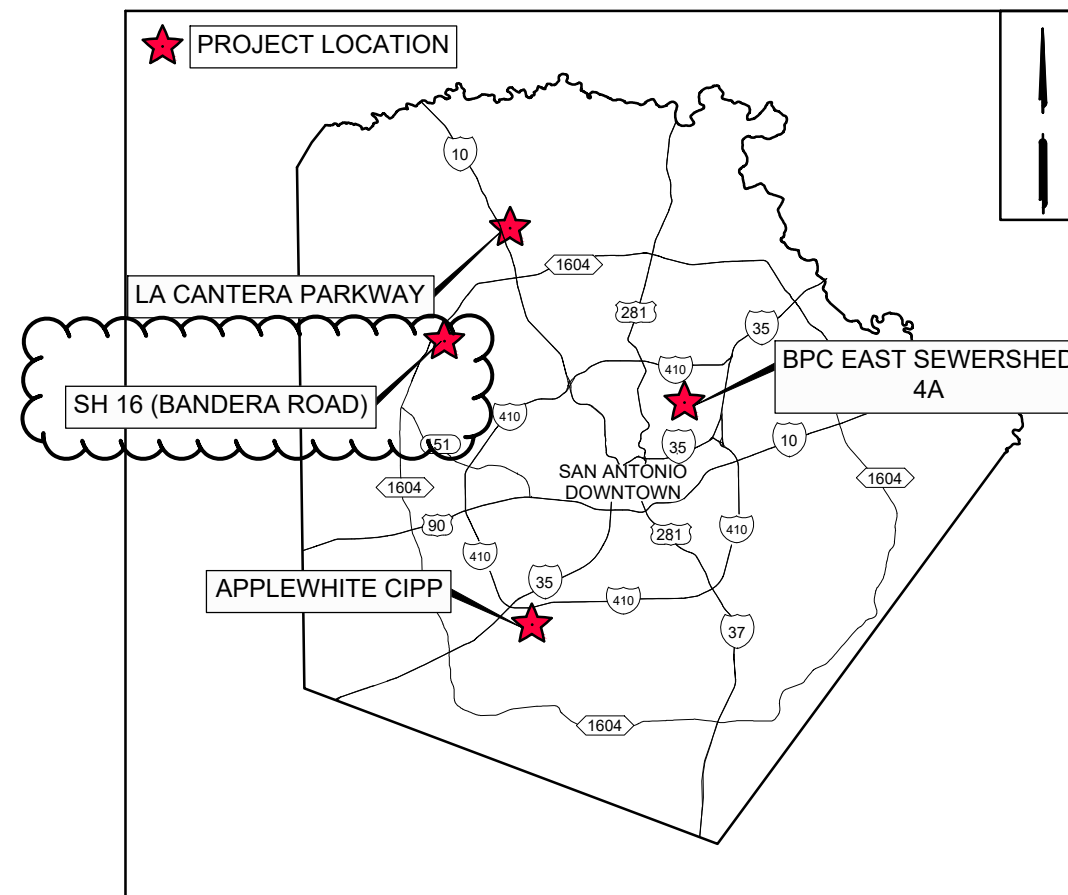
SAN ANTONIO WATER SYSTEM



2022 CIPP PACKAGE

SAWS JOB NO 22-4524

100% SUBMITTAL



VICINITY MAP
FEBRUARY 2023

NOT TO SCALE

BMB PROJECT NO C-1600.04

TABLE OF CONTENTS

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ADDENDUM 01



The seal appearing on this document was authorized by
CARL BAIN
P.E. 56996 ON
02-20-2023

BAIN MEDINA BAIN, INC.
ENGINEERS & SURVEYORS
TBPE F-001712
7073 San Pedro, San Antonio, Texas, 78216
Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBI.COM

		2022 CIPP PACKAGE	
		COVER SHEET	
DEVELOPER:			
CONT.		BUDGET PROJ.	
SUBMITTED			
APPROVED			
MAP No. 126644, 176602		SHEET	
SECT. No.		100% SUBMITTAL	
DR. ML		JOB No. 22-4524	
CK. RM/CB		OF 55	

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Date: Feb 20, 2023, 10:24am User ID: jcasarez File: W:\Work\C-1600.04 2022 CIPP Package (Design\Civil\Construction Documents\2 General Notes.dwg

GENERAL CONSTRUCTION

- 1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:
A. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290.
B. CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE."
C. CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION."
D. CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR CONSTRUCTION."
E. CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).
2. THE CONTRACTOR SHALL OBTAIN SAWS STANDARD DETAILS FROM SAWS WEBSITE, HTTPS://APPS.SAWS.ORG/BUSINESS_CENTERS/SPECS/CONSTSPECS/CONSTSPECS_2020/INDEX.CFM UNLESS OTHERWISE NOTED WITHIN DESIGN PLANS.
3. THE CONTRACTOR IS TO NOTIFY AND MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 210-233-3500 (DURING REGULAR SAWS WORKING HOURS), AND PROVIDE NOTIFICATION PROCEDURES THE CONTRACTOR WILL USE TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS TWO (2) WEEKS PRIOR TO EXCAVATION, OUTSIDE OF REGULAR SAWS WORKING HOURS THE SAWS EOC SHOULD BE CONTACTED AT 210-704-7297.
4. IF NECESSARY, CONTRACTOR WILL COORDINATE USE OF SAWS PREMISES AT NO ADDITIONAL COST TO SAWS. SUCH EFFORTS INCLUDE, BUT ARE NOT LIMITED TO, OBTAINING SECURITY IDENTIFICATION BADGES REQUIRED FOR ACCESS TO SAWS FACILITIES.
5. LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.
6. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. AS-BUILTS FOR SAWS INFRASTRUCTURE CAN BE OBTAINED AT WEBSITE BELOW. CONTRACTOR SHALL COORDINATE PHYSICAL LOCATES FOR SAWS INFRASTRUCTURE THROUGH THE SAWS INSPECTOR. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES REQUESTING PIPE LOCATION MARKERS ON SAWS INFRASTRUCTURE. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:
SAN ANTONIO WATER SYSTEM:
REQUEST AS-BUILTS: HTTPS://WWW.SAWS.ORG/SERVICE/LOCATES-SERVICE/
COSA DRAINAGE 210-206-8433
COSA TRAFFIC SIGNAL OPERATIONS 210-207-7720
TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION AS A RESULT OF DAMAGES DONE BY THE PROJECT'S CONSTRUCTION.
8. CONTRACTOR SHALL NOT MAKE USE OF DUMPSTERS OR WASTE BINS THAT ARE INTENDED TO SERVE RESIDENTS AND/OR BUSINESSES.
9. ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION AND BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT.
10. THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
11. ALL WORK WITHIN THE 100-YEAR FLOODPLAIN SHALL BE DONE IN ACCORDANCE WITH FLOODPLAIN DEVELOPMENT PERMIT.
12. ANY WORK COMPLETED WITHOUT PRIOR WRITTEN AUTHORIZATION WHICH IS NOT INCLUDED IN THESE PLANS AND SPECIFICATIONS WILL NOT BE COMPENSATED BY THE SAN ANTONIO WATER SYSTEM.
13. HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS.
WEEKEND WORK: CONTRACTORS ARE REQUIRED TO SUBMIT REQUEST TO THE SAWS INSPECTION CONSTRUCTION DEPARTMENT BY 12:00PM ON THE WEDNESDAY PRIOR TO THE WEEKEND BEING REQUESTED. REQUEST SHOULD BE SENT TO CONSTWOREK@SAWS.ORG.
ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION AT NO COST TO SAWS.
14. PRE CON SITE VIDEO: BEFORE THE START OF ANY CONSTRUCTION, THE SITE MUST BE VIDEO RECORDED BY THE CONTRACTOR WITH ONE COPY SUBMITTED TO SAWS INSPECTIONS. A PRE-SITE VIDEO WILL PROVIDE ACCURATE DOCUMENTATION OF THE EXISTING CONDITIONS (NSPI).
15. POWER POLE BRACING: CONTRACTORS SHOULD BE ADVISED THAT THERE ARE EXISTING OVERHEAD UTILITY POLES ALONG THE PROJECT CORRIDOR. CONTRACTORS SHOULD FURTHER BE ADVISED THAT IF THE DISTANCE FROM THE OUTSIDE FACE OF A UTILITY TRENCH TO THE FACE OF A UTILITY POLE IS LESS THAN 5 FEET, SAID UTILITY POLE IS SUBJECT TO BRACING, BASED ON A DETERMINATION MADE BY UTILITY POLE OWNER. COSTS INCURRED BY CONTRACTOR FOR BRACING OF THESE UTILITY POLES IS SUBSIDIARY TO THAT RESPECTIVE UTILITY COMPANY'S WORK. IT IS AN OBLIGATION OF THE CONTRACTOR TO REVIEW THE CONSTRUCTION DOCUMENTS, AND VISIT THE CONSTRUCTION SITE TO DETERMINE POTENTIAL IMPACTS.
16. CONSTRUCTION SEQUENCING: IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO SCHEDULE SEQUENCING FOR REMOVAL AND INSTALLATION OF EXISTING AND PROPOSED SAWS UTILITIES IN CONJUNCTION WITH GENERAL PROJECT CONSTRUCTION. SEQUENCE OF CONSTRUCTION ACTIVITIES SHALL BE CONSIDERED IN ORDER TO MINIMIZE THE EXTENT AND DURATION OF DISTURBANCES.
17. CONTRACTOR SHALL COMPLY WITH APPLICABLE REGULATIONS INCLUDING, BUT NOT LIMITED TO, THOSE OVERSEEN BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). OSHA INFORMATION AND RELATED MATERIALS MAY BE OBTAINED AT HTTPS://WWW.OSHA.GOV/ OR AT THE OSHA SAN ANTONIO OFFICE LOCATED AT FOUNTAINHEAD TOWER, SUITE 605 8200 W. INTERSTATE 10 SAN ANTONIO, TX 78230 WHICH IS ALSO REACHABLE BY PHONE AT (210) 472-5040.
18. TRENCH EXCAVATION SAFETY PROTECTION: CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREAS IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.
SEWER
19. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO SANITARY SEWER OVERFLOWS (SSO) OCCUR AS A RESULT OF THEIR WORK. ALL CONTRACTORS RESPONSIBLE FOR SSO PREVENTION AND CONTROL SHALL BE TRAINED ON PROPER RESPONSE. SHOULD AN SSO OCCUR THE CONTRACTOR SHALL:
A. IDENTIFY THE SOURCE OF THE SSO AND NOTIFY SAWS EMERGENCY OPERATIONS CENTER IMMEDIATELY AT 210-233-2015. PROVIDE THE ADDRESS OF THE SPILL AND AN ESTIMATED VOLUME OF FLOW.
B. ATTEMPT TO ELIMINATE THE SOURCE OF THE SSO.
C. CONTRACTOR SEWAGE FROM THE SSO TO THE EXTENT POSSIBLE TO PREVENT CONTAMINATION OF WATERWAYS.
D. CLEAN UP THE SPILL SITE (RETURN CONTAINED SEWAGE TO THE COLLECTION SYSTEM IF POSSIBLE) AND DISPOSE OF CONTAMINATED SOIL/MATERIALS.
E. CLEAN THE AFFECTED SEWER MAINS AND REMOVE ANY DEBRIS.
F. MEET ALL POST-SSO REQUIREMENTS PER THE EPA CONSENT DECREE INCLUDING LINE CLEANING AND TELEVISION THE AFFECTED SEWER MAINS (AT SAWS DIRECTION) WITHIN 24 HOURS.
G. SHOULD THE CONTRACTOR FAIL TO ADDRESS AN SSO IMMEDIATELY AND TO THE SAWS SATISFACTION, THEY WILL BE RESPONSIBLE FOR ALL THE ADDITIONAL COSTS INCURRED BY SAWS, INCLUDING ANY FINES FROM THE EPA.
NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FRO THIS WORK. ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TCEQ AND SAWS.

- 20. THE CONTRACTOR SHALL PROVIDE BYPASS PUMPING OF SEWAGE AROUND EACH SEGMENT OF PIPE TO BE REPLACED, IN ACCORDANCE WITH SAWS STANDARD SPECIFICATION ITEM NO. 865, "BYPASS PUMPING SMALL DIAMETER SANITARY SEWERS" AS APPLICABLE. PAYMENT FOR SUCH WORK WILL BE MADE UNDER THE APPROPRIATE BID ITEM ASSOCIATED WITH SANITARY SEWER BYPASS PUMPING IN ACCORDANCE WITH SAWS STANDARD SPECIFICATIONS 865.
21. PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 210-233-3500 AND/OR SAWS PRODUCTION GROUPS AT LEAST TWO WEEKS OR MORE IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.
22. ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALLOWANCES AND ADJUSTMENTS FOR TOP OF MANHOLES TO MATCH THE FINISHED GRADE OF THE PROJECT'S IMPROVEMENTS (NSPI).
23. SMART MANHOLE COVERS: THE CONTRACTOR SHALL NOTIFY SAWS EOC AT 210-704-SAWS (210-233-7297) AND EITHER AMERICA ESPINOZA AT 210-233-2934 OR JOSE A. MARTINEZ AT 210-233-3071 A MINIMUM OF 72 HOURS, NOT COUNTING WEEKENDS OR SAWS HOLIDAYS, BEFORE WORKING ON THE PIPE OR MANHOLE, IN ORDER TO HAVE SAWS REMOVE THE SMART COVER. ANY DAMAGE DONE TO THE SMART COVER WILL BE CHARGED TO THE CONTRACTOR THROUGH A CHANGE ORDER.
24. FLOW METERS IN MANHOLES: THE CONTRACTOR SHALL NOTIFY BOBBY JOHNSON AT 210-233-3493 OR ABEL BORUNDA AT 210-233-3704 A MINIMUM OF 72 HOURS, NOT COUNTING WEEKENDS OR SAWS HOLIDAYS, BEFORE WORKING ON THE PIPE OR MANHOLE, IN ORDER TO HAVE SAWS REMOVE THE FLOW METER IN THE MANHOLE. ANY DAMAGE DONE TO THE FLOW METER WILL BE CHARGED TO THE CONTRACTOR THROUGH A CHANGE ORDER.

CPS ENERGY NOTES:

- 1. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192, 181, CPS MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT ARE.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING CPS OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES OF ADJACENT TO WORK AREA.

CITY OF SAN ANTONIO NOTES:

- 1. ALL LIMITS FOR CURB, SIDEWALK, AND TREE PREP BEYOND WHAT IS CONSIDERED INCIDENTAL TO NORMAL UTILITY CONSTRUCTION WILL BE ADDRESSED BY THE SAWS INSPECTOR. ALL COMMUNICATION FROM THE CITY WILL BE COORDINATED THROUGH THE SAWS INSPECTOR. SAWS INSPECTOR WILL ALSO DETERMINE IF ADDITIONAL COMPENSATION IS WARRANTED IF LIMITS EXCEED INCIDENTALS.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN ALL REQUIRED STORM WATER PERMITS, FEES, AND APPROVALS. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PERMITS REQUIRED FOR CONSTRUCTION IN DRAINAGE EASEMENTS, RIGHT OF WAYS, AND FLOODPLAINS.
3. THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING AT LEAST 24 HOURS PRIOR TO THE INSTALLATION OF ANY DRAINAGE FACILITY WITHIN A DRAINAGE EASEMENT OR STREET RIGHT OF WAY NOT INDICATED ON THE CONSTRUCTION PLANS.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING DRAINAGE FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING DRAINAGE SYSTEMS, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AT HIS EXPENSE. THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING AT 210-206-8433 AS SOON AS CONFLICTS WITH UTILITIES ARE ENCOUNTERED OR ANY DRAINAGE SYSTEM IS DAMAGED DURING CONSTRUCTION.
5. CONSTRUCTION SPOILS WILL NOT BE ALLOWED TO BE DEPOSITED ANYWHERE WITHIN A DRAINAGE EASEMENT, RIGHT OF WAY, OR FLOODPLAIN WITHIN THE LIMITS OF THE PROJECT AND SHALL BE DISPOSED OFFSITE IN COMPLIANCE WITH CURRENT APPLICABLE REGULATIONS.
6. NO STRUCTURE, FENCES, WALLS, LANDSCAPING, OR OTHER OBSTRUCTIONS THAT IMPEDS DRAINAGE SHALL BE PLACED WITHIN THE LIMITS OF THE PROJECT AND SHALL BE DISPOSED OFFSITE IN COMPLIANCE WITH CURRENT APPLICABLE REGULATIONS.
7. UPON COMPLETION OF TRENCHING, THE AREA WILL BE BACKFILLED AND COMPACTED TO ITS ORIGINAL CONDITION. TRENCHES/BORE PITS TO BE OPEN AND UNCOVERED LONGER THAN 24 HOURS SHALL BE PROTECTED TO WITHSTAND ALL HYDRODYNAMIC AND HYDROSTATIC FORCES AND PREVENT DOWNSTREAM IMPACTS. TRENCHES/BORE PITS TO BE OPEN LONGER THAN 30 DAYS AFTER STARTING EXCAVATION SHALL BE BACKFILLED WITH A SEMI PERMANENT REPAIR BACKFILL.
8. IMPROVED SECTIONS OF EARTHEN CHANNELS AND/OR WATERWAYS WILL BE VEGETATED BY SEEDING OR SODDING, EIGHTY-FIVE PERCENT OF THE CHANNEL SURFACE AREA MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT THE CHANNEL FOR MAINTENANCE.

CURED-IN-PLACE PIPE (CIPP) SEQUENCING NOTES:

- 1. CONTRACTOR TO PERFORM WORK IN THE FOLLOWING SEQUENCE. SAWS AND ENGINEER APPROVAL WILL BE REQUIRED AT EACH BELOW STEP BEFORE CONTRACTOR CAN PROCEED TO NEXT SEQUENCE. CONTRACTOR TO SUBMIT PROPOSED SCHEDULE OF EACH TASK IN THIS SEQUENCE. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL MINIMIZE THE DURATION OF BYPASS PUMPING OPERATION.
A. CONTRACTOR TO SETUP BYPASS PUMPING PER SPEC 865 OF CONTRACT DOCUMENTS.
B. CONTRACTOR TO PREPARE THE EXISTING LINE INCLUDING CLEANING AS NEEDED AND PERFORM CCTV SURVEYS PER THE CONTRACT DOCUMENTS.
C. CONTRACTOR TO PERFORM EXPLORATORY WORK ON THE EXISTING SEWER LINE AT THE POINT REPAIR LOCATION AS WELL AS ALL OTHER UTILITIES IN CONFLICT PER THE CONTRACT DOCUMENTS.
D. CONTRACTOR TO PERFORM INTERNAL OBSTRUCTION REMOVAL TO ADDRESS ANY OBSTRUCTIONS PER CONTRACT DOCUMENTS.
E. CONTRACTOR TO PERFORM THE POINT REPAIR PER THE CONTRACT DOCUMENTS.
2. INFORMATION SHOWN IS BASED ON RECORD INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL INFORMATION PRIOR TO CONSTRUCTION.
3. INFORMATION IS APPROXIMATE BASED ON AS-BUILTS BY OTHERS. CONTRACTOR SHALL PERFORM EXPLORATORY INVESTIGATIONS AS NEEDED (NSPI).

REHABILITATION NOTES:

- 1. THE CONTRACTOR SHALL USE CIPP METHODS IN SECTIONS OF THE SEWER MAINS THAT ARE IDENTIFIED ON THE ENGINEERING PLANS FOR REHABILITATION/REPLACEMENT IN ACCORDANCE WITH THE TRAFFIC CONTROL AND BYPASS PUMPING PLANS DEVELOPED FOR THE PROJECT.
2. REPLACE (OPEN CUT) PIPE AT LOCATIONS FOR POINT REPAIRS BETWEEN MANHOLES AS INDICATED AND CONNECT TO EXISTING SEWER SYSTEM.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND ACQUIRE THEIR OWN STAGING AREA, INCLUDING PARKING AREA, TO ACCOMMODATE CONSTRUCTION PERSONNEL VEHICLE PARKING(NSPI).
4. AFTER INSTALLATION IS COMPLETED, THE CONTRACTOR SHALL TELEVISION AND VIDEO RECORD THE REHABILITATED SEWER MAINS IN ACCORDANCE WITH ITEM NO. 865 "SEWER MAIN TELEVISION INSPECTION" TO DOCUMENT SATISFACTORY COMPLETION OF WORK TO THE ENGINEER AND OWNER.
5. CONTRACTOR SHALL SUPPORT AND PROTECT EXISTING UTILITIES DURING RECONSTRUCTION OF SANITARY SEWER LINES (POINT REPAIRS) AND MANHOLES. (NSPI)

BYPASS PUMPING NOTES

- 1. CONTRACTOR SHALL SUBMIT BY-PASS AND PHASING PLAN TO SAWS FOR REVIEW AND APPROVAL PRIOR TO COMMENCING OF THE CONSTRUCTION.
2. SEWER WORK AND CLEAN UP SHALL BE IN ACCORDANCE WITH THE GUIDELINE SET FORTH BY TCEQ AND SAWS. CONTRACTOR SHALL IDENTIFY AND TRAIN PERSONNEL RESPONSIBLE FOR SPILLAGE PREVENTION AND CONTROL. CONTRACTOR SHALL ALSO DOCUMENT AND EDUCATE EMPLOYEES IN ADVANCE OF WAKE ABOUT THE WORK ENVIRONMENT INCLUDING WHAT TO DO WHEN THERE ARE SEWER LEAKS AND HOW TO WORK SAFELY AROUND RAW SEWAGE.
3. IN SITUATIONS WHERE BYPASS LINE IS TO BE PLACED THROUGH A CULVERT OR WITHIN THE 100YEAR FLOODPLAIN, THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AND SUPPORT THE BYPASS LINE DURING CONSTRUCTION.
4. CONTRACTOR SHALL COORDINATE WITH THE CITY OF SAN ANTONIO RIGHT OF WAY MANAGEMENT DIVISION AND TXDOT TO IDENTIFY AND OBTAIN ALL NECESSARY PERMITS.
5. CONTRACTOR TO ACQUIRE STAGING LOCATION AND PROVIDE LOCATIONS TO SAWS PRIOR TO COMMENCING OF CONSTRUCTION.

NOTES:

- 1. TRENCH EXCAVATION SAFETY PROTECTION SHALL BE ACCOMPLISHED AS REQUIRED BY THE MOST RECENT PROVISIONS OF PART 1926, SUBPART P-EXCAVATIONS. TRENCHING AND SHORING OF THE OSHA STANDARDS AND INTERPRETATIONS, AS MAY BE AMENDED.
2. MAINTAIN MINIMUM VERTICAL CLEARANCE OF 2 FT WHERE SEWER MAIN CROSSES EXISTING AND PROPOSED UTILITIES, UNLESS OTHERWISE SHOWN ON PLANS. PROVIDE TEMPORARY SUPPORT OF EXISTING UTILITY AS REQUIRED. WHEN SEWER MAIN PARALLELS WATER MAIN, MAINTAIN MINIMUM 4 FT HORIZONTAL CLEARANCE.
3. SEPARATION DISTANCE BETWEEN PARALLEL WATER MAIN AND SEWER MAINS ARE IN ACCORDANCE WITH SAWS VARIANCES TO SECTIONS OF TCEQ RULES.
4. FLOWABLE FILL TO FOLLOW TXDOT TRENCH BACKFILL WITH PAVED SURFACE DETAILS.
5. ALL TREE WORK SHALL BE PERFORMED BY AN ISA CERTIFIED ARBORIST.
6. TREE PRUNING, PROTECTION, OR TRIMMING SHALL BE COMPLETED TO COMPLY WITH THE CITY OF SAN ANTONIO (NSPI).
7. CONTRACTORS SHALL INDICATE TO THE CITY OF SAN ANTONIO DSD PROPOSED LIMITS OF CLEARANCE WITH TREES DURING PRE-CONSTRUCTION MEETING AND WITH PROJECT SUBMITTALS.
8. CONTRACTOR SHALL MAINTAIN FLOWS IN EXISTING SEWER MAIN.
9. CONTRACTOR SHALL REMOVE AND REPLACE PAVEMENT, DRIVEWAYS, SIDEWALKS, CURB, FENCES, LANDSCAPING, IRRIGATION SYSTEMS AND OTHER SURFACE FEATURES DAMAGED BY CONSTRUCTION ACTIVITIES TO PRE-EXISTING CONDITIONS OR NEW MATERIAL. SURFACE RESTORATION SHALL BE INCIDENTAL TO SANITARY SEWER LATERALS (NSPI)
10. CONTRACTOR TO FIELD VERIFY FOR CAPPED SANITARY SEWER LATERALS AND CONNECT ACTIVE SERVICE.
11. CONTRACTOR TO PROTECT, SUPPORT, MAINTAIN, AND COORDINATE IN ADVANCE WITH SAWS OPERATIONS AS NEEDED TO SHUT OFF THE WATER MAIN DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF WATER MAIN IF DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO SAWS.
12. DURING CONSTRUCTION, THE DRIVEWAY WILL CONTINUE TO BE USABLE WITH A ROLLED ASPHALTIC BASE OVER THE DRIVEWAY CUT. THE CONTRACTOR WILL MAINTAIN THE TEMPORARY DRIVEWAY FOR OWNER'S USE.
13. ASPHALT PAVEMENT RESTORATION WILL FOLLOW PERMANENT ASPHALT TRENCH REPAIR DETAIL ON MISCELLANEOUS DETAILS SHEET.
14. CONTRACTOR IS RESPONSIBLE FOR LOCATING A NEARBY FIRE HYDRANT AS A SOURCE OF WATER FOR CIPP OPERATION. IN CASE THAT A FIRE HYDRANT IS NOT NEAR THE AREA, THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING WATER TO COMPLETE THE TASK AT NO ADDITIONAL COST TO SAWS.
15. CONTRACTOR IS RESPONSIBLE TO PROVIDE LIGHTING IF WORK IS REQUIRED TO BE PERFORMED AT NOGHT WHEN TRAFFIC IS MINIMAL. LIGHTING FOR AFTER HOURS CONSTRUCTION IS TO BE SUPPLIED BY THE CONTRACTOR AT NO ADDITIONAL COST TO SAWS.
16. CONTRACTOR IS TO ASSURE THAT ALL MATERIALS NEEDED TO COMPLETE THE CONSTRUCTION ARE ON HAND IN ORDER TO MINIMIZE UNNECESSARY WORK STOPPAGE FOR EXTENDED PERIODS OF TIME.

SERVICE LATERALS:

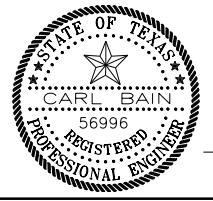
- 1. THE EXACT LOCATION AND ELEVATION OF THE SERVICE LATERALS AND MANHOLES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. (NSPI)
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING EACH EXISTING SERVICE LINE FROM THE EXISTING MAIN AND RECONNECTING THE SERVICE TO THE NEW SERVICE MAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS SERVICE. (NSPI)

INSTALLATION NOTES:

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND ACQUIRE THEIR OWN STAGING AREA, INCLUDING PARKING AREA, TO ACCOMMODATE CONSTRUCTION PERSONNEL VEHICLE PARKING (N.S.P.I).
2. AFTER INSTALLATION IS COMPLETED, THE CONTRACTOR SHALL TELEVISION AND VIDEO RECORD THE INSTALLED SEWER MAINS IN ACCORDANCE WITH ITEM NO. 866 "SEWER MAIN TELEVISION INSPECTION" TO DOCUMENT SATISFACTORY COMPLETION OF WORK TO THE ENGINEER AND OWNER.
3. CONTRACTOR SHALL SUPPORT AND PROTECT EXISTING UTILITIES DURING CONSTRUCTION OF SANITARY SEWER LINES AND MANHOLES. (N.S.P.I)
4. CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE SIZES, GRADES AND SERVICE LATERALS BEFORE START OF CONSTRUCTION (N.S.P.I).
5. CONTRACTOR TO VERIFY PIPE SIZE DIAMETERS PRIOR TO ORDERING CIPP LINER.

Table with 7 columns: ITEM NO., DESCRIPTION, UNIT, QUANTITY, QUANTITY, QUANTITY, QUANTITY, TOTAL. Includes items like Remove Concrete Curb (COSA Spec), Topsoil (4") (TXDOT Spec), Concrete Curb and Gutter (COSA Spec), etc.

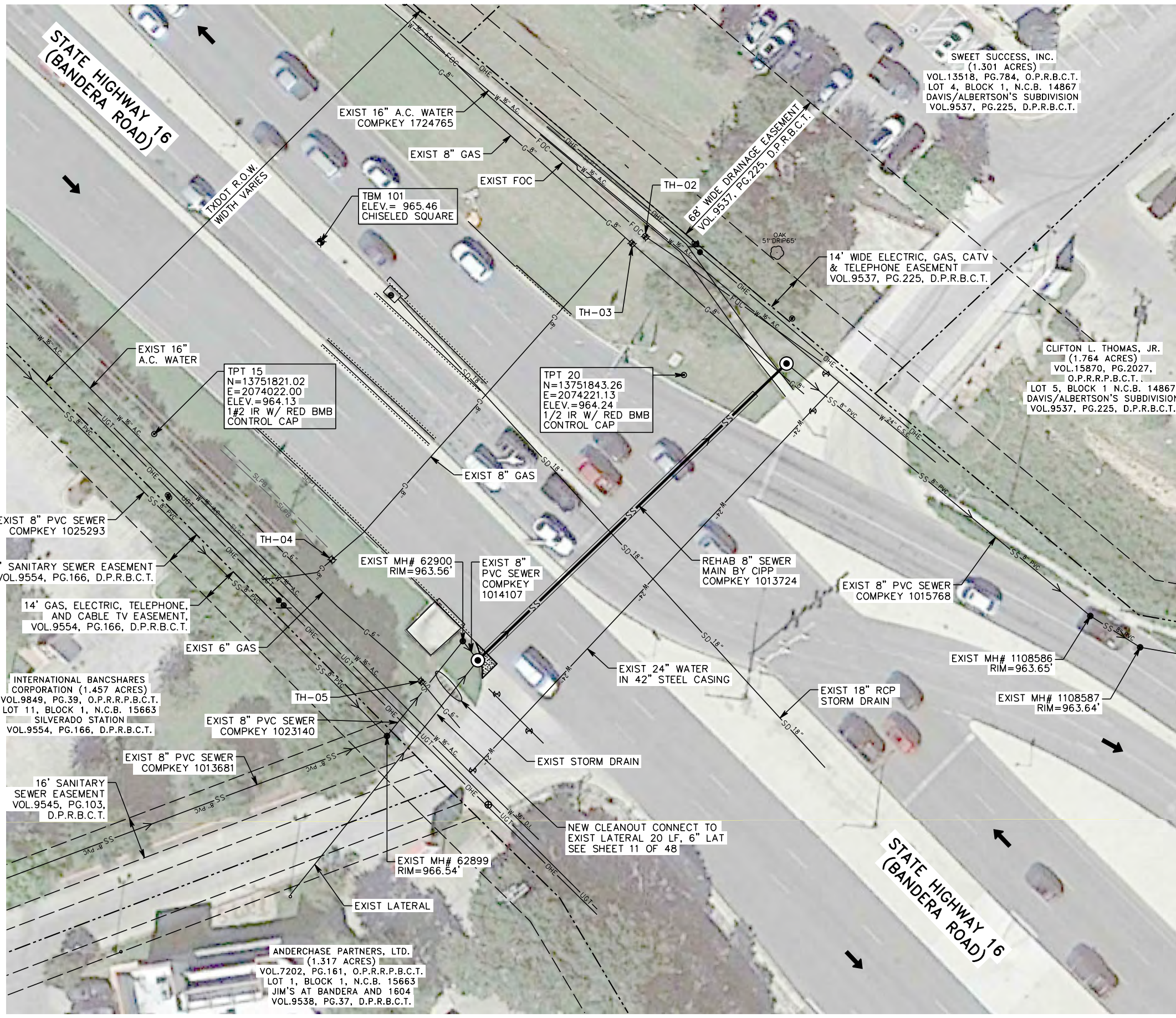
ADDENDUM 01



The seal appearing on this document was authorized by CARL BAIN P.E. 56996 ON 02-20-2023

BAIN MEDINA BAIN, INC. ENGINEERS & SURVEYORS. 7073 San Pedro, San Antonio, Texas, 78216. Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBI.COM. 2022 CIPP PACKAGE. GENERAL NOTES & QUANTITIES. DEVELOPER: BUDGET PROJ. SUBMITTED: APPROVED: MAP No. 126644, 176602 SHEET 2 OF 55. SECT. No. 100% SUBMITTAL. DR. ML CK. RM/CB JOB No. 22-4524

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TRENCH EXCAVATION SAFETY PROTECTION:
 CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATIONS SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

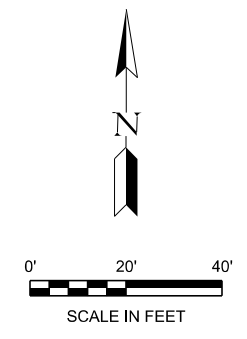
TXDOT ABANDON SEWER NOTE:
 PIPES TO BE ABANDONED SHALL BE CUT, CAPPED, AND GROUTED. PRESSURE FILL CASING WITH GROUT SLURRY. REMOVE CONES AND LIDS OF ABANDONED MANHOLES. REMOVE CONCRETE MANHOLE TO 2-FT BELOW FINISH GRADE, FILL REMAINING LOW STRENGTH CEMENTIOUS MATERIAL.

- NOTES:**
1. CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, AND SERVICE LATERALS PRIOR TO CONSTRUCTION.
 2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SEWER SERVICE TO EXISTING SEWER MAINS AT ALL TIMES.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING, AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITIONS AS A RESULT OF DAMAGE DONE BY THE PROJECT CONSTRUCTION (NSPI)
 4. THE CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS THROUGH ALL DRIVEWAYS AND ROADWAYS.
 5. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS AND BUSINESS OWNERS FOR BYPASS PUMPING PLAN.
 6. CONTRACTOR TO PROTECT EXISTING TREES ADJACENT TO PROJECT WORK ZONE.

TEST HOLE	DESCRIPTION	GND ELEV	TOP UTIL	DEPTH
TH#2	MCI Fiber Optic	961.96	958.53	3.43
TH#3	CPS 8" Gas	962.26	957.48	4.78
TH#4	CPS 8" Gas	962.21	953.71	8.5
TH#5	CPS 6" Gas	963.7	960.11	3.59



ADDENDUM 01



CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WHETHER PUBLIC OR PRIVATE, PRIOR TO CONSTRUCTION

SAWS LEGEND

EXIST. WATER MAIN	W-6" AC
EXIST. GAS MAIN	G
EXIST. SANITARY SEWER	SS
EXIST. STORM SEWER	SD
EXIST. UTILITY POLE LINE	OHE
EXIST. FIBER OPTIC CABLE	FOC
TELEPHONE CABLE	UGT
EXIST. FIRE HYDRANT	•
EXIST. WATER VALVE	•
EXIST. SEWER MANHOLE	⊙
PROP. SANITARY SEWER	SS
PROP. SEWER MANHOLE	⊙
STEEL CASING	▭
FLOWABLE FILL/ CONCRETE	▭
BYPASS	▭

REVISION	DATE	DESCRIPTION	BY

UNINTECH CONSULTING ENGINEERS, INC.
 2431 E. Evans Road, San Antonio, Texas 78259
 Phone: (210) 641-6003

CPS Texas PE Firm Reg. #F-929
 4801 NW Loop 410, Suite 910, San Antonio, Texas 78229
 T+1 210 736 0425 E usinfrastructure@cpsgroup.com

SAWS 2021 SSOR CMOM PACKAGE 1
 STATE HWY 16 (BANDERA ROAD) LAYOUT

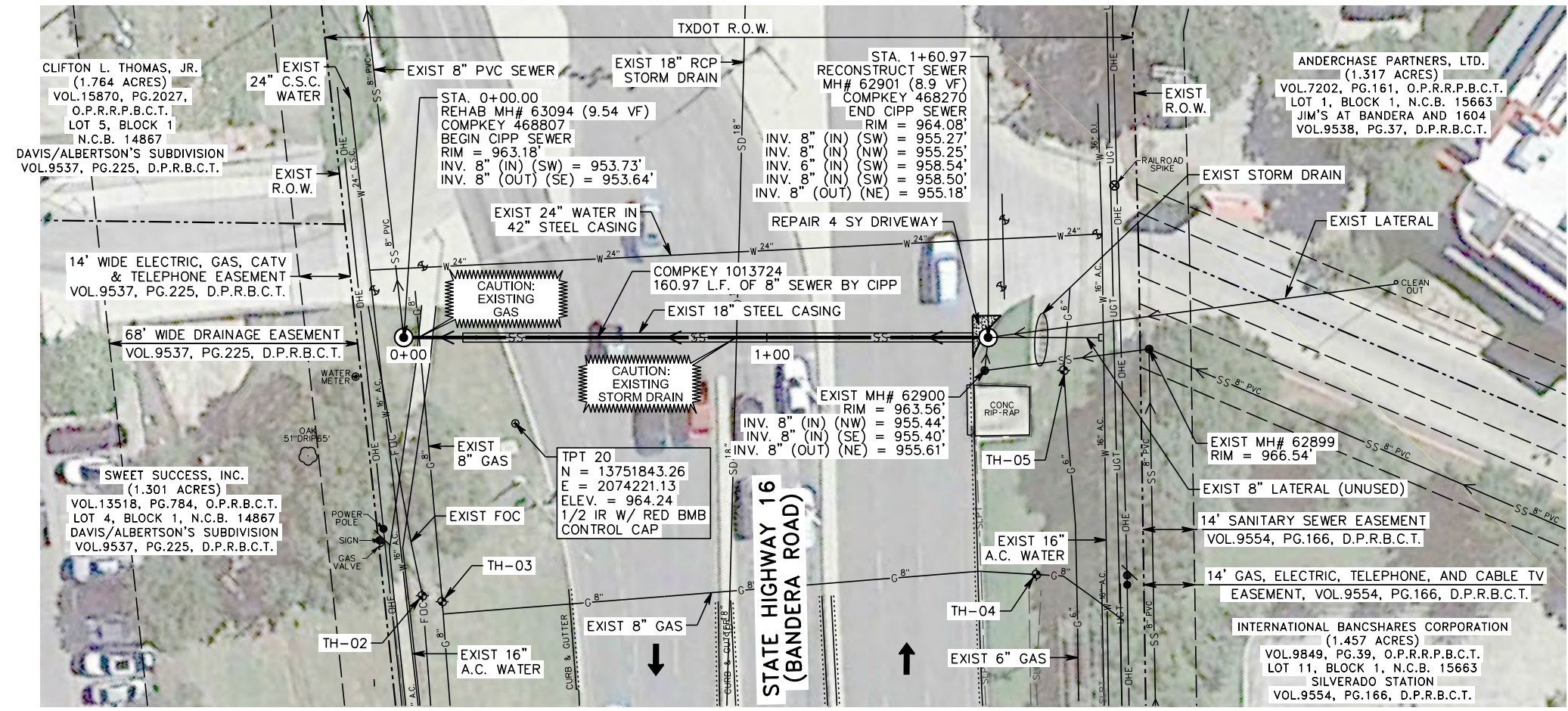
DEVELOPER: _____
 CONT. _____ BUDGET PROJ. 33

SUBMITTED _____
 APPROVED _____

MAP NO. 104624 & 104626 SHEET 25A
 SECT. NO. _____ OF 55

DR. ZJ CK. MH JOB NO. 22-4512

TRENCH EXCAVATION SAFETY PROTECTION:
 CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATIONS SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

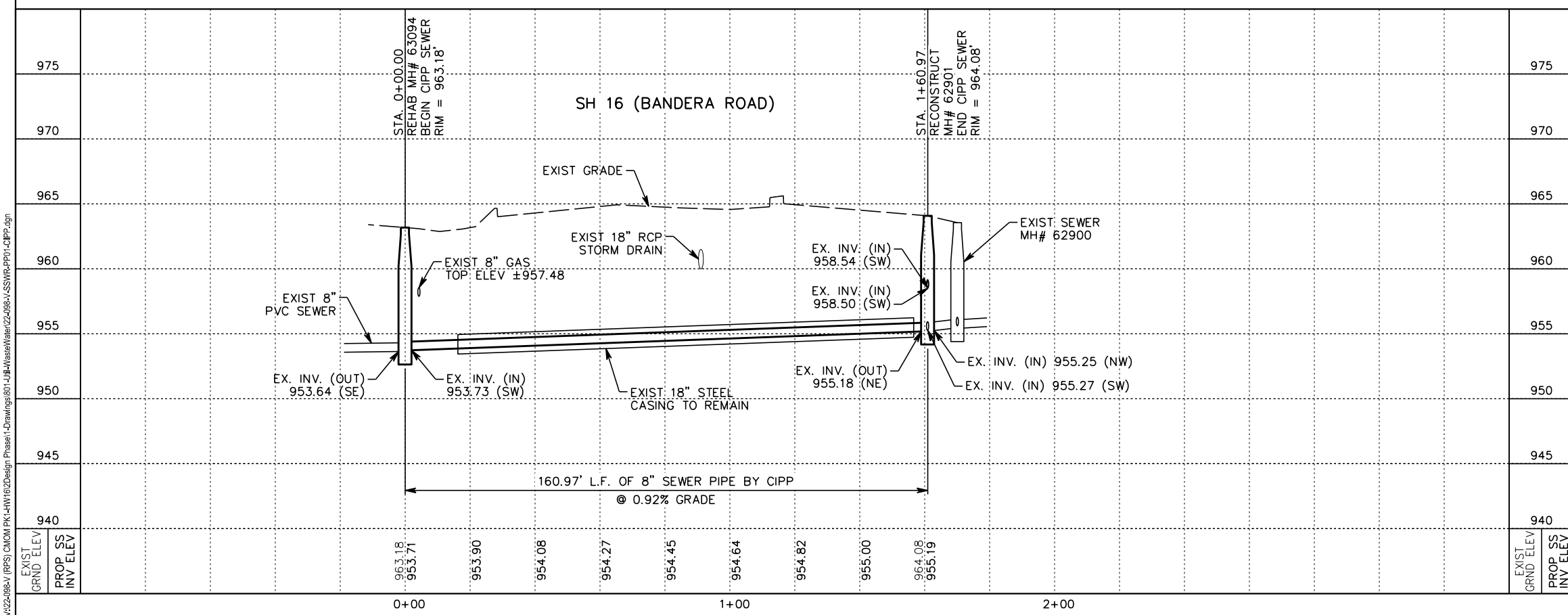
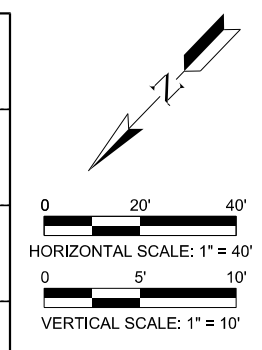


ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
103.3	Remove Concrete Sidewalk & Driveways (COSA Spec)	SF	37
503.3	Portland Cement Concrete Driveway (COSA Spec)	SY	4
530	Barricades, Signs, and Traffic Handling (COSA Spec) (SH 16)	LS	1
855	Reconstruction of Existing Manhole	EA	1
865	Bypass Pumping (Small Diameter Sanitary Sewer) (SH 16)	LS	1
866	Sanitary Sewer Main Television Inspection (8" through 15")	LF	161
901	Install CIPP 8" Sanitary Sewer Pipe (Hot Water) (All Depths)	LF	161
910	Manhole Rehabilitation	VF	9.54



ADDENDUM 01



SAWS LEGEND

- EXIST. WATER MAIN: W 8" A.C.
- EXIST. GAS MAIN: G
- EXIST. SANITARY SEWER: SS
- EXIST. STORM SEWER: SD
- EXIST. UTILITY POLE LINE: OHE
- EXIST. FIBER OPTIC CABLE: FOC
- EXIST. TELEPHONE CABLE: UGT
- EXIST. FIRE HYDRANT: FH
- EXIST. WATER VALVE: V
- EXIST. SEWER MANHOLE: M
- PROP. SANITARY SEWER: SS
- PROP. SEWER MANHOLE: M
- STEEL CASING: SC
- FLOWABLE FILL/CONCRETE: F
- BYPASS: B

REVISION	DATE	DESCRIPTION	BY

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 Phone: (210) 641-6003, Fax: (210) 641-8279, www.unintech.com

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SAWS 2021 SSOR CMOM PACKAGE 1

STATE HWY 16 (BANDERA ROAD) PLAN & PROFILE (OPTION 1)

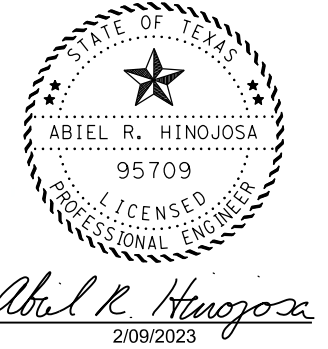
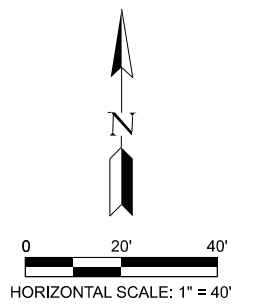
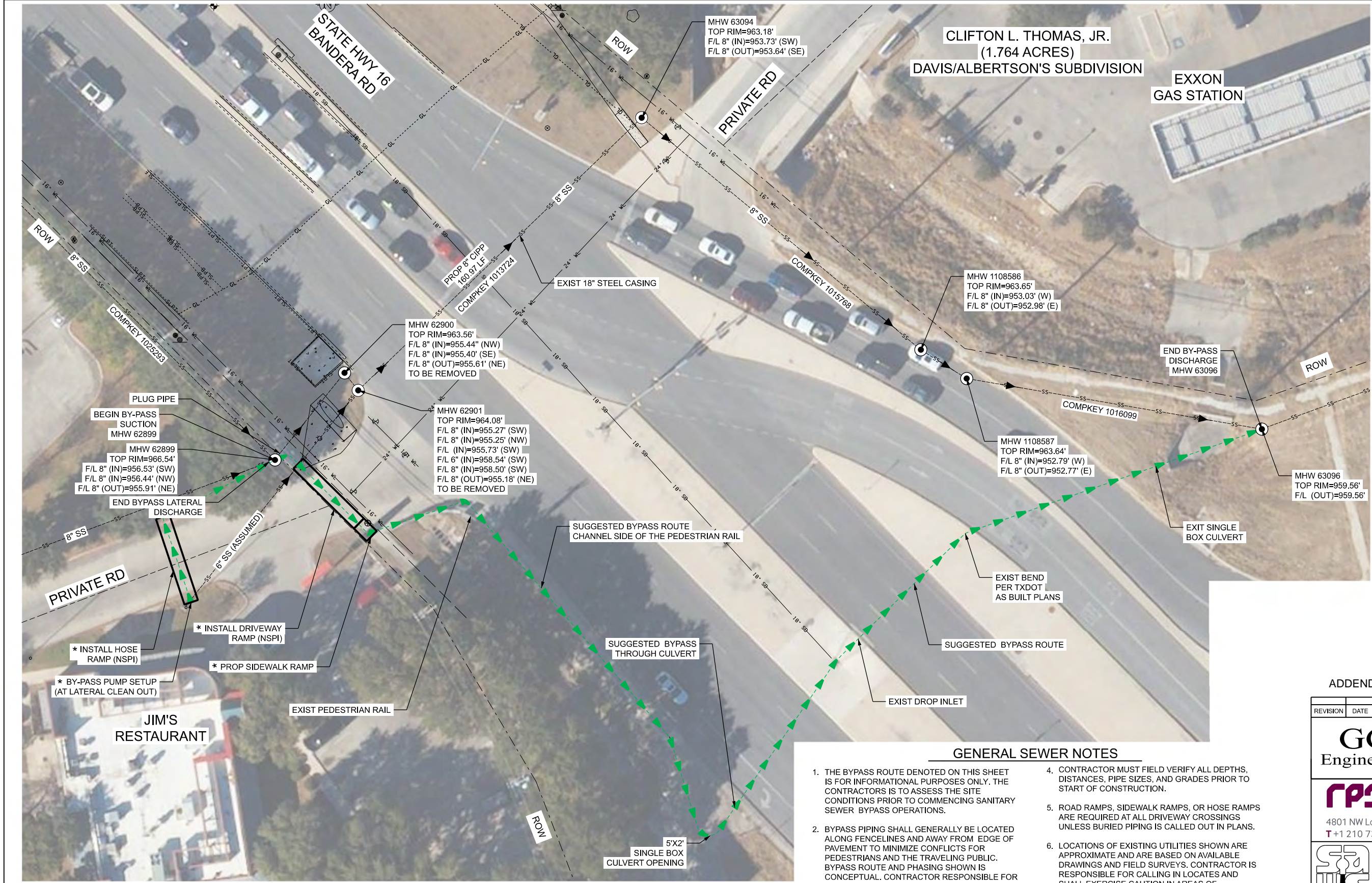
DEVELOPER: _____
 CONT. _____ BUDGET PROJ. 33

SUBMITTED _____
 APPROVED _____

MAP NO. 104624 & 104626 SHEET 25B
 SECT. NO. _____ OF 55

DR. ZJ CK. MH JOB NO. 22-4512

2/8/2023 2:15:17 PM V:\22-096-V (RPS) CMOM PK-1\HWY16\Design\Phase1-Drawings\01-UJJH\Water\Water2-096-V-SSWR-PP01-CIPP.dgn



SAWS LEGEND

- EXIST. WATER MAIN ——— Ex G ———
- GAS MAIN ——— Ex G ———
- SANITARY SEWER ——— Ex SS ———
- STORM SEWER ——— Ex SD ———
- UTILITY POLE LINE ——— Ex OHE ———
- TELEPHONE CABLE ——— Ex UT ———
- DUAL BRANCH SERV. ———
- EXIST. FIRE HYDRANT ———
- EXIST. WATER VALVE ———
- EXIST SEWER MANHOLE ———
- PROPOSED SEWER MANHOLE ———
- STEEL CASING ———
- FLOWABLE FILL/ CONCRETE ———
- SUGGESTED BYPASS ———

ADDENDUM 01

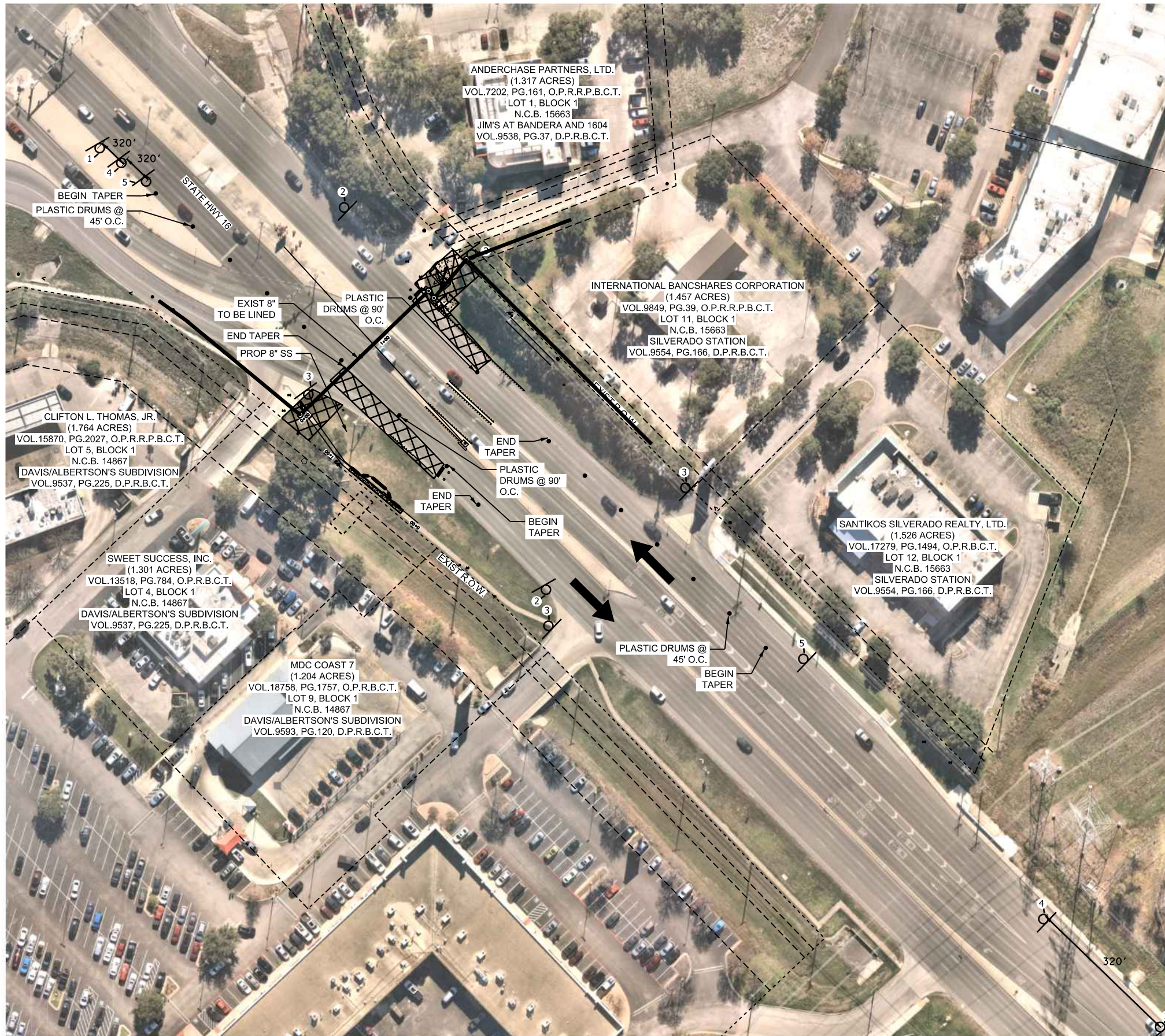
REVISION	DATE	DESCRIPTION	BY
<p>11215 Morning Court San Antonio, Texas 78213 Ph. (210)495-4745 Fax (210)495-4746 TBPE Reg. No. F-1184</p>			
<p>Texas PE Firm Reg. #F-929 4801 NW Loop 410, Suite 910, San Antonio, Texas 78229 T +1 210 736 0425 E usinfrastructure@rpsgroup.com</p>			
<p>SAWS 2021 SSOR CMOM PACKAGE 1</p>			
<p>STATE HWY 16 (BANDERA RD) BYPASS</p>			
DEVELOPER:		BUDGET PROJ.	
CONT.			
SUBMITTED			
APPROVED			
MAP NO.		SHEET 25C	
SECT. NO.		OF 55	
DR. GG	CK. MM	JOB NO. 22-4512	

GENERAL SEWER NOTES

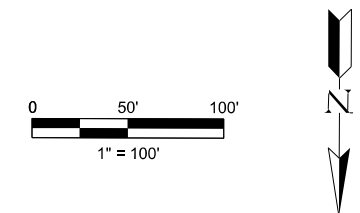
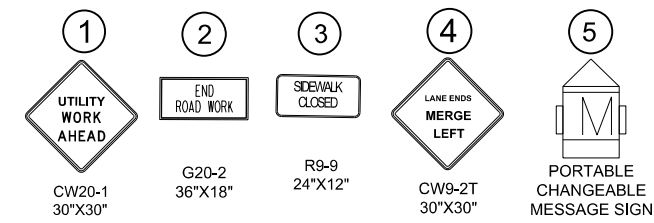
1. THE BYPASS ROUTE DENOTED ON THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTORS IS TO ASSESS THE SITE CONDITIONS PRIOR TO COMMENCING SANITARY SEWER BYPASS OPERATIONS.
2. BYPASS PIPING SHALL GENERALLY BE LOCATED ALONG FENCELINES AND AWAY FROM EDGE OF PAVEMENT TO MINIMIZE CONFLICTS FOR PEDESTRIANS AND THE TRAVELING PUBLIC. BYPASS ROUTE AND PHASING SHOWN IS CONCEPTUAL. CONTRACTOR RESPONSIBLE FOR PREPARING BYPASS PUMPING PLAN PER SPECIFICATION 864 AND 865.
3. CONTRACTOR MUST NOTIFY AND/OR CONTACT SAWS INSPECTION AT 210-233-3500 AND SAWS ENGINEERING AT 210-233-3493 48 HOURS BEFORE ANY OF THE FOLLOWING ACTIVITIES TAKE PLACE.
 - A. NOTIFICATION OF PRE-TELEVISION INSPECTION.
 - B. NOTIFICATION OF BYPASS PUMPING SETUP OPERATIONS.
 - C. NOTIFICATION OF THE PIPE INSTALLATION.
4. CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCES, PIPE SIZES, AND GRADES PRIOR TO START OF CONSTRUCTION.
5. ROAD RAMPS, SIDEWALK RAMPS, OR HOSE RAMPS ARE REQUIRED AT ALL DRIVEWAY CROSSINGS UNLESS BURIED PIPING IS CALLED OUT IN PLANS.
6. LOCATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE AND ARE BASED ON AVAILABLE DRAWINGS AND FIELD SURVEYS. CONTRACTOR IS RESPONSIBLE FOR CALLING IN LOCATES AND SHALL EXERCISE CAUTION IN AREAS OF EXCAVATION.
7. CONTRACTOR SHALL VERIFY SEWER FLOWS AND SIZE BYPASS FOR ALL BYPASS SITES IN COMPLIANCE WITH SAWS SPECIFICATIONS.
- *8. CONTRACTOR IS TO COORDINATE WITH JIM'S RESTAURANT OWNER TO OBTAIN RIGHT OF ENTRY TO PROPERTY PRIOR TO WORK COMMENCEMENT.

COMPKEY	MH ID	PIPE SIZE (IN)	SLOPE	PIPE CAPACITY (MGD)	CFS
LATERAL	62901	6" (ASSUMED)	2%	0.74	1.15
1025293	62899	8" PVC	0.5%	0.87	1.34
NA	62899	8" PVC	2%	1.73	2.68

SFILES SDATES STIMES



SITE 8 - STATE HWY 16 (BANDERA RD)
TRAFFIC CONTROL PLAN



ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QTY
6001	PORTABLE CHANGEABLE MESSAGE SIGN (TxDOT Spec)	EA	2



ADDENDUM 01

LEGEND	
EXISTING SS	EX SS - 8"
PROPOSED SS	SS - 8"
TRAFFIC DIRECTION	
TYPE (III) BARRICADE SIGN	
WORK ZONE	
VERTICAL DRUM/BARRIER	
EXISTING MH	
PROJECT MH	

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SAWS SAWS 2021 SSOR CMOM PACKAGE 1
 STATE HWY 16 (BANDERA RD)
 TRAFFIC CONTROL PLAN

DEVELOPER:		BUDGET PROJ.	
SUBMITTED		APPROVED	
MAP NO.	SECT. NO.		SHEET 25D
DR. RR	CK. SO	JOB NO. 22-4512	OF 55