



**Gallagher Tract 30" & 24" Sewer Extension**  
**Solicitation Number: CO-00609**  
**Job No.: 21-4407**

**ADDENDUM 1**  
**November 14, 2022**

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.

**RESPONSE TO QUESTIONS**

**1. Question: Can the engineer provide flow data for the Bypass on existing 36 in sewer line?**

*Answer: According to SAWS Utility Service Regulations 11.3.1(6.), "it is the responsibility of the developer customer to monitor and control existing flows during construction to prevent overflows from occurring. Furthermore, per Utility Service Regulations 13.4.4, "Determination of flows for by-pass pumping is the responsibility of the developer customer. If available, SAWS Master Planning Division may provide modeled flowrates upon request, however the use of this information is at the sole risk of the user".*

*SAWS Master Planning has stated there is no data for this area, but it is estimated that less than 600 homes are currently connected to the existing 36" sewer main.*

**2. Question: There are 16 – 5ft Tee-Base Manholes on the plans, Bid items call for 15 only?**

*Answer: There are a total of 17 – 5 ft Tee-Based Manholes. This includes the 15 Standard Tee-Bases, Custom Tie-in Manhole (MH A1A), & the Sweeping Bend Manhole (MH A6). The material is called out as line items 4 through 6 on the bid proposal. Installation of these 17 Manholes is captured under line items 12 through 14. See Clarifications and #1 of Changes to the Specifications.*

**3. Question: Is the material for the tee-base include the risers and ring and covers?**

*Answer: A line item (#70) on the bid proposal has been added to capture the material for the Tee-Based Manholes ring & covers. In addition, the overall quantities on sheet 0.1 "General Notes and Quantities" has also been updated to reflect this. See #1 Changes to the Plans.*

**4. Question: Bid item 17 & 23 appear to be the same, both have annular grout. Please clarify.**

*Answer: The grout in line item 17 is to cover filling in the annular space between the outside of the steel casing and the bore hole itself. The grout in line item 23 is to cover filling in the annular space between the carrier pipe and the inside of the steel casing.*

**CHANGES TO SPECIFICATIONS**

1. Remove the Bid Proposal (BP-1–BP-3) in its entirety and replaced with attached revised version. Bidders shall use the revised Bid Proposal attached to this Addendum when submitting a bid for this project. Failure to use the revised Bid Proposal may result in the bid being found non-responsive.

**CHANGES TO PLANS**

1. Sheet 0.1 (General Notes and Quantities )-Remove Sheet 0.1 in its entirety and replace with revised version attached to this addendum
2. Sheet 6.0 (Tree Preservation Sheet Index)-Remove Sheet 6.0 in its entirety and replace with revised version attached to this addendum
3. Sheet 6.1 (Tree Preservation Plan Tables)-Remove Sheet 6.1 in its entirety and replace with revised version attached to this addendum

**CLARIFICATIONS**

1. The revised bid proposal and sheet 0.1 were updated to include the quantities for ring & covers for the 5' Tee-Base Manholes.
2. Sheets 6.0 & 6.1 were updated to include the City of San Antonio approved and stamped tree plans.

**END OF ADDENDUM 1**

This Addendum, including these 2 pages, is (8) pages with attachments in its entirety.

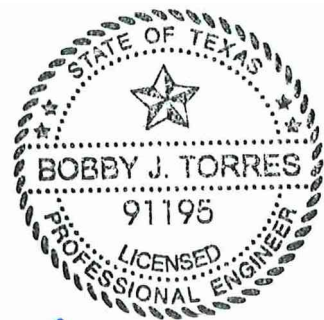
Attachments:

Revised Bid Proposal

Revised sheet 0.1 "General Notes and Quantities"

Revised sheet 6.0 "Tree Preservation Sheet Index"

Revised sheet 6.1 "Tree Preservation Plan Tables"



*Bobby Torres*

11/14/2022

BID PROPOSAL

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

THE SAN ANTONIO WATER SYSTEM:

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

**PLEASE SEE ATTACHED LIST OF BID ITEMS.**

\_\_\_\_\_  
BIDDER'S SIGNATURE & TITLE

\_\_\_\_\_  
FIRM'S NAME (TYPE OR PRINT)

\_\_\_\_\_  
FIRM'S ADDRESS

\_\_\_\_\_  
FIRM'S PHONE NO. /FAX NO.

\_\_\_\_\_  
FIRM'S EMAIL ADDRESS

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

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

The bidder offers to construct the Project in accordance with the Contract Documents for the contract price, and to complete the Project within **300** calendar days after the start date, as set forth in the Authorization to Proceed. **The bidder understands and accepts the provisions of the contract Documents relating to liquidated damages of the project if not completed on time.**

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

**Statement on President's Executive Orders**

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

**Texas Government Code Chapter 2274 Verifications**

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

**SAN ANTONIO WATER SYSTEMS  
 BID PROPOSAL LINE ITEMS  
 SAWS SEWER JOB # 21-4407  
 SOLICITATION NO. CO-00609**

**SUBDIVISION**

**NAME: GALLAGHER TRACT 30" & 24" SEWER EXTENSION**

<b>LINE NO.</b>	<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>UNIT PRICE</b>	<b>AMOUNT</b>
1	848	24" SDR 26 (10' - 14')	LF	1,217		
2	848	24" SDR 26 (14' - 18')	LF	2,713		
3	857	30" FRP SN 72 MATERIAL ONLY	LS	1	\$1,284,152.00	\$1,284,152.00
4	853	TEE-BASE FIBERGLASS MANHOLE (5' DIA) MATERIAL ONLY	LS	1	\$293,105.00	\$293,105.00
5	853	CUSTOM TEE-BASE FIBERGLASS MANHOLE (5' DIA) MATERIAL ONLY	LS	1	\$28,305.00	\$28,305.00
6	853	SWEEPING BEND WITH TEE-BASE MANHOLE (5' DIA) MATERIAL ONLY	LS	1	\$22,565.00	\$22,565.00
7	857	30" FRP SN 72 (6' - 10') INSTALLATION ONLY	LF	664		
8	857	30" FRP SN 72 (10' - 14') INSTALLATION ONLY	LF	4,217		
9	857	30" FRP SN 72 (14' - 18') INSTALLATION ONLY	LF	1,256		
10	857	30" FRP SN 72 (18' - 22') INSTALLATION ONLY	LF	696		
11	853	FIBERGLASS MANHOLE (4' DIA)	EA	11		
12	853	TEE-BASE FIBERGLASS MANHOLE (5' DIA) INSTALLATION ONLY	EA	15		
13	853	CUSTOM TEE-BASE FIBERGLASS MANHOLE (5' DIA) INSTALLATION ONLY	EA	1		
14	853	SWEEPING BEND WITH TEE-BASE MANHOLE (5' DIA) INSTALLATION ONLY	EA	1		
15	852	MANHOLE RING ENCASEMENT	EA	28		
16	856	42" JACKING, BORING, TUNNELING (WITH GROUT)	LF	165		
17	856	48" JACKING, BORING, TUNNELING (WITH GROUT)	LF	633		
18	856	24" CARRIER PIPE (BORE)	LF	165		
19	856	24" CARRIER PIPE (OPEN CUT)	LF	225		
20	856	30" CARRIER PIPE INSTALLATION ONLY	LF	633		
21	856	42" STEEL CASING (BORE)(GROUT ANNULAR VOID)	LF	165		
22	856	42" STEEL CASING (OPEN CUT)(GROUT ANNULAR SPACE)	LF	225		
23	856	48" STEEL CASING (BORE GROUT ANNULAR SPACE)	LF	633		
24	858	CONCRETE ENCASEMENT	C.Y.	40		
25	550	TRENCH EXCAVATION PROTECTION	LF	10,989		
26	866	TV VIDEO SEWER LINE	LF	11,787		
27	862	REMOVE/REPLACE EXISTING T-BASE MANHOLE (INSTALL NEW TIE-IN)	EA	1		
28	864	BYPASS PUMPING	LS	1		
29	COSA 507	TEMP. 5-STRAND BARB WIRE - INSTALL AND REMOVE	LF	8,686		
30	COSA 507	TEMP. 12' WIDE GATE - INSTALL AND REMOVE	EA	4		
31	COSA 507	TEMP. 16' WIDE GATE - INSTALL AND REMOVE	EA	1		
32	COSA 507	BARB WIRE FENCE - REMOVE AND REPLACE	LF	154		
33	101	TREE PROTECTION/CLEARING	AC	12		
34	520.1	HYDROMULCHING	SY	75,828		
35	COSA 540	ROCK BERM	LF	152		
36	COSA 540	EQUIPMENT STORAGE AREA	SY	1,975		
37	COSA 540	WASHOUT PIT	SY	160		
38	COSA 540.6	CONSTRUCTION ENTRANCE/EXIT	SY	380		
39	COSA 540.9	SILT FENCE	LF	13,468		
40	COSA 200.1	8" FLEX BASE TEMP. DRIVE	SY	2,101		
41	COSA 230.1	EXISTING DRIVE RESTORATION (8" FLEX BASE)	SY	2,603		
42	824	2" WATER SERVICE LINE	LF	1,272		

43	TXDOT 677	REMOVE 4" BROKEN SOLID YELLOW WITH TY II-AA	LF	410		
44	TXDOT 677	REMOVE 4" BROKEN YELLOW STRIPE W TY I-C	LF	610		
45	TXDOT 467	REMOVE DRAINAGE STRUCTURE W/ TY II SET	EA	2		
46	TXDOT 677	REMOVE 4" SOLID WHITE STRIPE	LF	2,041		
47	TXDOT 666	4" BROKEN SOLID YELLOW W/ TY II-AA	LF	410		
48	TXDOT 666	4" BROKEN YELLOW STRIPE W/ TY I-C	LF	610		
49	TXDOT 666	4" SOLID YELLOW STRIPE	LF	2,041		
50	TXDOT 666	4" SOLID WHITE STRIPE	LF	2,040		
51	TXDOT 160	8" TOP SOIL	SY	345		
52	TXDOT 169	SOIL RETENTION BLANKETS (CL1)(TY B)	SY	345		
53	TXDOT 110	EXCAVATION	CY	530		
54	TXDOT 132	EMBANKMENT	CY	237		
55	TXDOT 340	2" ACP TY-C	SY	680		
56	TXDOT 340	3.5" ACP TY-B	SY	566		
57	TXDOT 310	PRIME COAT	GAL.	113		
58	TXDOT 316	ONE COARSE SURFACE TREATMENT	GAL.	57		
59	TXDOT 247	6" FLEX BASE	SY	345		
60	TXDOT 247	12" FLEX BASE	SY	793		
61	TXDOT 260	6" LIME TREATED SUBGRADE	SY	850		
62	TXDOT 464	24" RCP (CLASS III)	LF	93		
63	TXDOT 467	DRAINAGE STRUCTURE W/ TY II SET	EA	2		
64	TXDOT 432	ROCK RUBBLE	SY	745		
65	TXDOT 502	TRAFFIC CONTROL	LS	1		
66	TXDOT 4027	PRIMARY ACCESS ESTABLISHMENT / MAINTENANCE	LS	1		
67	TXDOT 4027	PRIMARY ACCESS RESTORATION	LS	1		
68	TXDOT 4027	SECONDARY ACCESS ESTABLISHMENT / MAINTENANCE	LS	1		
69	TXDOT 4027	SECONDARY ACCESS RESTORATION	LS	1		
70	852	TEE-BASE 5' MANHOLE RING & COVER	EA	17		
<b>SUBTOTAL (ITEMS 1 - 70)</b>						

71	100.1	Mobilization (Max 10% of <b>Line Numbers 1-70</b> )*	LS	1		
72	101.1	Preparing Right-Of-Way (Max 5% of <b>Line Numbers 1-70</b> )*	LS	1		
73	102.1	Intermediate Demobilization and Remobilization	EA	1		

<b>TOTAL BID PRICE (ITEMS 1 - 73)</b>						
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\*Mobilization lump sum bid shall be limited to a maximum 10% of the Sub-total Base Bid amount. Preparing Right-of-Way lump sum bid shall be limited to a maximum of 5% of the Sub-total Base Bid amount. The Sub-total Base Bid is defined as all bid items EXCLUDING Item 100.1, Mobilization, and Item 101.1, Preparing Right-Of-Way. In the event of a discrepancy between the written percentage and dollar amount shown for Mobilization and Preparing Right-Of-Way bid items the written percentage will govern. If the percentage written exceeds the allowable maximum stated for Mobilization and or Preparing of Right-Of-Way, SAWS reserves the right to cap the amount at the percentages shown and adjust the extensions of the bid items accordingly."

SAWS STANDARD GENERAL CONSTRUCTION NOTES ASSOCIATED WITH 2021 SAWS STANDARD SPECS

UPDATED: DECEMBER 14, 2021

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).

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 STATEWIDE ONE CALL LOCATOR 1-800-545-6005 OR 811

WATER

- 19. PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS INSPECTION AND/OR SAWS PRODUCTION GROUPS AT LEAST 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.
SAWS PRODUCTION CONTROL CENTER 210-233-2016
20. ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOS-CONTAINING MATERIAL (ACM), MAY BE LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS. PAYMENT FOR SUCH WORK IS TO BE MADE UNDER ITEM NO. 3000, 'HANDLING ASBESTOS CEMENT PIPE'.
AC PIPE REMOVED ON CONSTRUCTION PROJECTS FOR TIE-INS SHOULD BE IN LENGTH OF 26 LINEAR FEET (LF), LENGTHS OF 13 LF SHOULD BE REMOVED WHERE AC PIPE IS BEING REMOVED AND CROSSING PIPES, CONDUITS, OR BOXES.

SEWER

- 23. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO SANITARY SEWER OVERFLOW (SSO) OCCURS AS A RESULT OF THEIR WORK. ALL CONTRACTOR PERSONNEL 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 (EOC) IMMEDIATELY AT 210-704-SAWS (210-704-7297), PROVIDE THE ADDRESS OF THE SPILL AND AN ESTIMATED VOLUME OR FLOW.
B. ATTEMPT TO ELIMINATE THE SOURCE OF THE SSO.
C. CONTAIN SEWAGE FROM THE SSO TO THE EXTENT OF PREVENTING A POSSIBLE CONTAMINATION OF WATERWAYS.
D. CLEAN UP SPILL, SITE, (RETURN CONTAINED SEWAGE TO THE COLLECTION SYSTEM IF POSSIBLE) AND PROPERLY DISPOSE OF CONTAMINATED SOIL MATERIALS.
E. CLEAN THE AFFECTED SEWER MAINS AND REMOVE ANY DEBRIS.
F. MEET ALL POST-SSO REQUIREMENTS AS PER THE EPA CONSENT DECREE, INCLUDING LINE CLEANING AND TELEVISIONING THE AFFECTED SEWER MAINS (AT SAWS DIRECTION) WITHIN 24 HOURS.
SHOULD THE CONTRACTOR FAIL TO ADDRESS AN SSO IMMEDIATELY AND TO SAWS SATISFACTION, THEY WILL BE RESPONSIBLE FOR ALL COSTS INCURRED BY SAWS, INCLUDING ANY FINES FROM EPA.
NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THIS WORK. ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TCEQ AND SAWS.
24. 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 SEWER MAINS' AND STANDARD SPECIFICATION ITEM NO. 864, 'BYPASS PUMPING LARGE DIAMETER SANITARY SEWER MAINS' 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 AND 864.

ADDITIONAL NOTES:

- 1. CONTRACTOR AND SUBS SHALL NOT USE LOUIS AGUSTA (PRIVATE DRIVE) FOR CONSTRUCTION ACCESS FOR THE DURATION OF THE PROJECT.
2. PHASING OF THE PROJECT REQUIRED - PROJECT MAY NOT BE CONSTRUCTED CONTINUOUSLY. NO CONSTRUCTION WILL BE ALLOWED ON THE BOEHME-LEE TRACT DURING HUNTING SEASON (NOVEMBER 1, 2022 - JANUARY 6, 2023) AND THE TEMPORARY CONSTRUCTION EASEMENT WILL EXPIRE ON OCTOBER 31, 2023. CONTRACTOR SHALL ADHERE TO THESE RESTRICTIONS DURING CONSTRUCTION OF THIS PROJECT AND BID COSTS SHALL INCLUDE NECESSARY MEANS TO COMPLETE THE PROJECT ON SCHEDULE.
3. SEWER PIPE WHERE WATER LINE CROSSES SHALL BE MEET THE REQUIREMENTS OF ASTM D2241. CONTRACTOR SHALL CENTER A 20 FOOT JOINT OF 160 P.S.I. PRESSURE RATED P.V.C. AT THE PROPOSED WATER CROSSING (NO SEPARATE PAY ITEM). REFERENCE SANITARY SEWER GENERAL NOTES, S.A.W.S. CRITERIA FOR SEWER MAIN CONSTRUCTION IN THE VICINITY OF WATER MAINS. SEE THIS SHEET FOR TYPICAL SANITARY SEWER / WATER CROSSING DETAIL.
4. SEE SHEET 2.0 FOR BENCHMARK INFORMATION.
5. 24" PIPES SHALL BE SDR 26. 30" PIPES SHALL BE SN 72.
6. WHERE EXCAVATION IS WITHIN 5' OF A UTILITY POLE, THE POLE SHALL BE BRACED. CONTRACTOR TO COORDINATE POWER POLE BRACING (IF NECESSARY) WITH CPS ENERGY. POLE BRACING WILL BE CONSIDERED TO BE INCLUDED WITH THE COST OF THE PROJECT (NSPI).
7. DIMENSIONS SHOWN ON PLANS BETWEEN SEWER LINE AND POWER POLE SHOULD BE VERIFIED BY CONTRACTOR. MORE POLES MAY NEED TO BE BRACED BASED ON ACTUAL FIELD DIMENSIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY LOCATIONS OF POWER POLES IN RELATION TO THE PROPOSED SEWER LINE AND ADD BRACING WHERE REQUIRED (NSPI).
8. LOUIS AGUSTA IS A PRIVATE DRIVE FOR ADJACENT LANDOWNERS. IT SHOULD NOT BE USED FOR CONSTRUCTION ACCESS TO THIS PROJECT. LANDOWNERS HAVE NOT GIVEN APPROVAL TO USE LOUIS AGUSTA.
9. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO KEEP LIVESTOCK SAFE AND INJURY FREE. REFER TO SPECIFICATION S100.
10. ALL TESTING WILL BE SUBSIDIARY TO THE LINE ITEM TO WHICH IT PERTAINS.
11. ALL PIPE CONCRETE ENCASEMENT SHALL BE CLASS B, 2500 PSI AND ALL TEE-BASE MANHOLE CONCRETE ENCASEMENT SHALL BE CLASS A, 4000 PSI PER SAWS SPECIFICATION 300.
12. ALL SURVEY WORK AND CONSTRUCTION STAKING SHALL BE PERFORMED UNDER THE SUPERVISION OF REGISTERED PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF TEXAS.
13. CONTRACTOR TO PROVIDE TESTING AS DICTATED IN THE SAWS SPECIFICATION ITEM NO. 849 'SANITARY SEWER TESTING' AT NO SEPARATE PAY ITEM (NSPI).
14. CONTRACTOR TO ANTICIPATE USING 2 CREWS ONSITE AS NEEDED TO INSURE THE SCOPE OF THE PROJECT ON THE BOEHME-LEE PROPERTY IS COMPLETED PRIOR TO THE EXPIRATION OF THE TEMPORARY CONSTRUCTION EASEMENT. THE TEMPORARY CONSTRUCTION EASEMENT ON THE BOEHME-LEE PROPERTY EXPIRES ON OCTOBER 31, 2023.
15. CONTRACTOR TO REVEGETATE DISTURBED AREAS AS INDICATED IN PLANS WITH A NATIVE SEED MIX. CONTRACTOR SHALL CONFIRM THAT SEED MIX USED IS LIVESTOCK FRIENDLY AND WILL NOT BE HARMFUL IF INGESTED. IF NATIVE MIX CAN NOT BE IDENTIFIED CONTRACTOR MAY USE THE MOST SIMILAR MIX LISTED IN THE RECOMMENDED GRASSES AND GROUND COVER CAN BE FOUND IN APPENDIX E 'SAN ANTONIO RECOMMENDED PLANT LIST - ALL SUITED TO XERISCAPE PLANTING METHODS' FOUND IN THE CURRENT CITY OF SAN ANTONIO UNIFIED DEVELOPMENT CODE. JOHNSON GRASS, GIANT RAGWEED AND OTHER INVASIVE SPECIES SHALL NOT BE ALLOWED.
16. CONTRACTOR MAY REQUEST WALKING THE ALIGNMENT DURING THE BIDDING PROCESS WITH THE ENGINEER WITH ONE WEEKS ADVANCE NOTICE. CONTACT BOBBY TORRES, P.E. (BTORRES@KFWENGINEERS.COM).

COMPACTION NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 98% COMPACTION ON ALL TRENCH BACKFILL AND FOR PAYING FOR THE TESTS PERFORMED BY A THIRD PARTY. COMPACTION TESTS WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED, OR AS INDICATED BY THE SAWS INSPECTOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.

EXISTING UTILITY NOTE:
THE EXISTING UTILITIES SHOWN ARE BASED ON THE BEST RECORDS AVAILABLE AT THE TIME OF DESIGN AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. CONTRACTOR TO FIELD VERIFY THE LOCATION (BOTH HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION.

TRAFFIC CONTROL PLAN NOTE:
CONTRACTOR TO PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL BY BEXAR COUNTY PRIOR TO CONSTRUCTION. ALL ITEMS NECESSARY SHALL BE IMPLEMENTED PER TMC2D AND ALL COSTS CAPTURED IN THE TRAFFIC CONTROL BID ITEM. COORDINATION WITH BEXAR COUNTY IS EXPECTED FOR THE DURATION OF THE PROJECT.

CONCURRENT CONSTRUCTION COORDINATION NOTE:
CONTRACTOR TO COORDINATE WITH CONTRACTOR OF CONCURRENT 16" WATER LINE PROJECT (SAWS JOB #22-1001) ON TIMING AND PHASING FOR THE INSTALLATION OF THE SEWER MAIN BETWEEN SEWER LINE STA. 75+00 & 85+00.

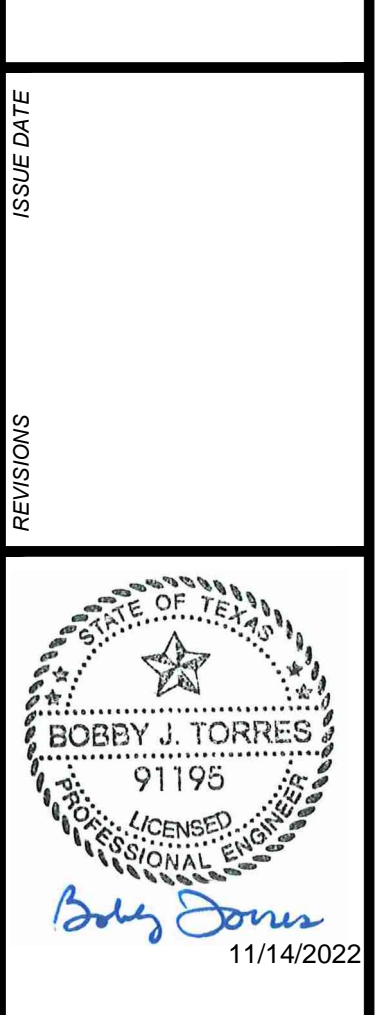
FLOODPLAIN PERMIT NOTE:
NO CONSTRUCTION AND/OR WASTE MATERIAL SHALL BE PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER FLOW LIMITS OF EXISTING NATURAL DRAINAGE OR PLACED WITHIN THE LIMITS OF EXISTING FLOODPLAIN.

AUTOWALL:
THE CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICT THAT ARISES SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

MANHOLE NOTE:
ALL MANHOLES MUST BE WATERTIGHT, WITH WATERTIGHT RINGS AND COVERS.


Table with columns: ITEM NO., DESCRIPTION, OVERALL PROJECT QUANTITIES, UNIT, QTY. Lists various construction items like SDR 26 pipe, manholes, trenching, and materials with their respective units and quantities.


PREORDERED MATERIAL NOTE:
30" FRP SN 72 PIPE AND TEE-BASE FIBERGLASS MANHOLES (INCLUDING RISER) HAVE BEEN PREORDERED AND WILL BE SUPPLIED TO CONTRACTOR. REFERENCE SPECIAL CONDITION 3 'MATERIAL LONG LEAD TIME' AND SPECIAL CONDITION 7 'FIBERGLASS REINFORCED PIPE & TEE-BASE FIBERGLASS MANHOLES', IN THE CONTRACT DOCUMENTS FOR PRICING OF MATERIAL AND FURTHER DETAILS.



GALLAGHER TRACT 30" & 24" SEWER EXTENSION
BEXAR COUNTY, TEXAS
GENERAL NOTES AND QUANTITIES
SEWER: MEDIO CREEK WATERSHED/SEWERSHED - MEDIO CREEK W.R.C.
DEVELOPER'S NAME: DAPHNE DEVELOPMENT, LLC.
DEVELOPER'S ADDRESS: 1202 W. BITTERS RD, BLDG 1, SUITE 1200
CITY: SAN ANTONIO STATE: TEXAS ZIP: 78216
PHONE#: (210) 490-1788 FAX#: TOTAL ACREAGE: N/A
SAWS BLOCK MAP#: 060592\_062592\_064592\_066592\_068592\_068590\_070590 TOTAL EDU'S: N/A
TOTAL LINEAR FOOTAGE OF PIPE: 7,466 L.F. - 30" FRP 4,320 L.F. - 24" PVC PIPE PLAT NO: N/A
NUMBER OF LOTS: N/A SAWS JOB#: 21-4407
JOB NO.: 205-48-02 DATE: November 7, 2022 DRAWN: M.W. CHECKED: A.C. SHEET NUMBER: 0.1

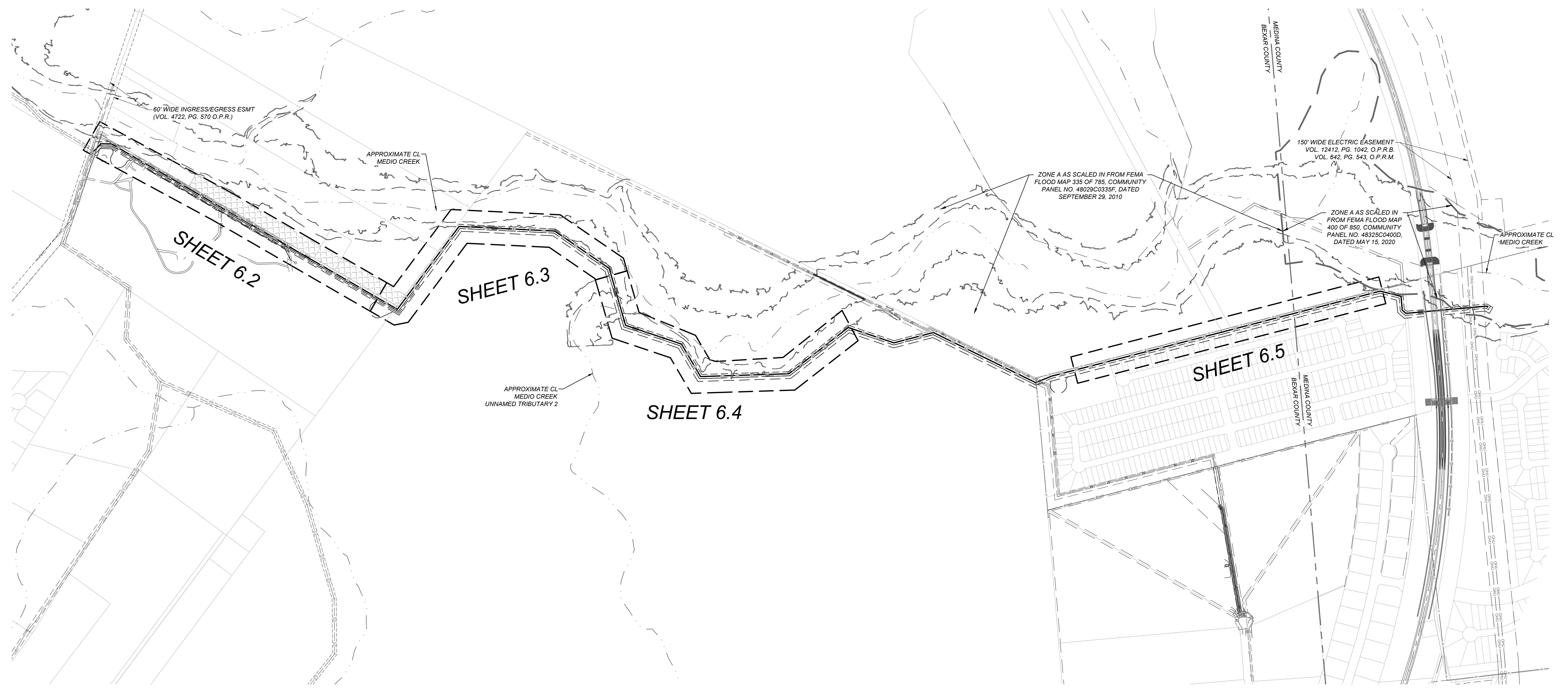
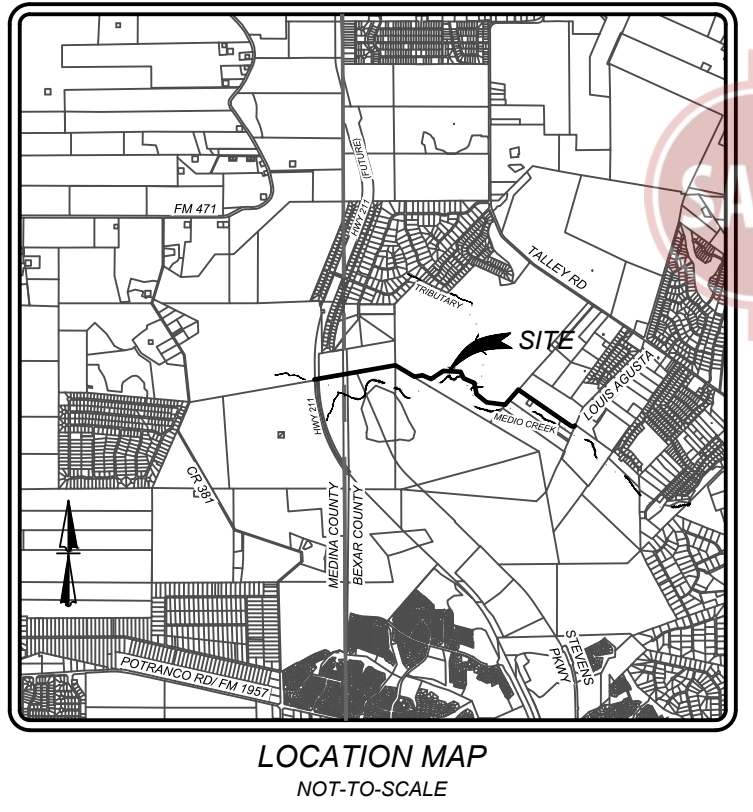
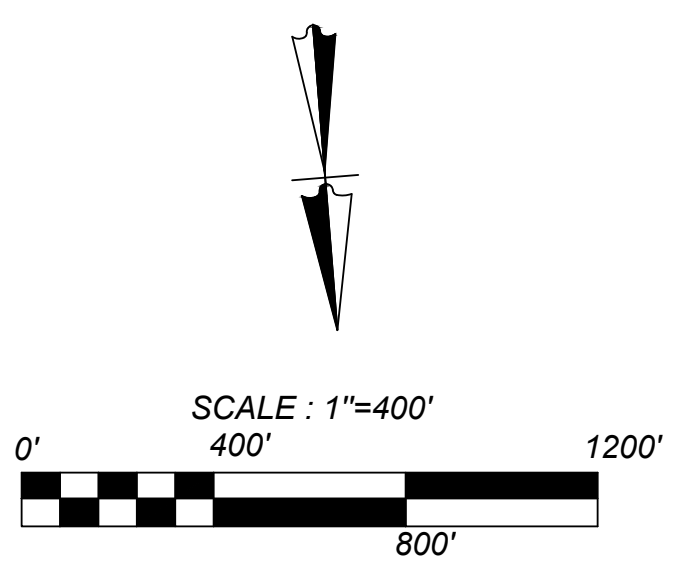
File: P:\2024\02\Design\Civil\SEWER\SEWER\_COVER.dwg
User: J. Torres
Date: 11/07/2023

 Failure to schedule a fencing inspection prior to start of work may result in a stop Work order or a Penalty of \$1,000.00 or both. UDC §35-523 (k)(2)

 It shall be the responsibility of the permit holder to maintain a copy of the approved tree plans, approved tree permit and the conditions of approval readily available at all times.

 DEVELOPMENT SERVICES  
 Tree Pre-Construction Meeting  
 Required prior to Site Work

 DEVELOPMENT SERVICES  
 TREE PROTECTION SECTION  
 REVIEWED FOR COMPLIANCE



**K&W**  
 ENGINEERS + SURVEYING  
 3421 Praegeross Pkwy, Suite 200, San Antonio, TX 78231  
 Phone #: (210) 979-8444 • Fax #: (210) 979-8441  
 TBPE Firm #: 9513 • TBPLS Firm #: 10122300

100% REVIEW SET

ISSUE DATE: \_\_\_\_\_

REVISIONS: \_\_\_\_\_

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**GALLAGHER TRACT 30" & 24" SEWER EXTENSION**  
 BEXAR COUNTY, TEXAS

**TREE PRESERVATION PLAN SHEET INDEX**

JOB NO.: 205-48-02  
 DATE: June 22, 2022  
 DRAWN: M.W. CHECKED: A.C.

SHEET NUMBER:  
**6.0**



LOCATION MAP  
NOT-TO-SCALE

RIPARIAN HERITAGE INVENTORY TABLE			
TAG #	SPECIES	REMOVED	PRESERVED
4168	LO		32.8
4312	LO		30.2
4336	LO		24.1
SUB. TOTAL INCHES		N/A	87.1
TOTAL INCHES BY CATEGORY			87.1
HERITAGE PRESERVATION PERCENTAGE			100%
REQUIRED PRESERVATION PERCENTAGE			100%
HERITAGE MITIGATION (INCHES)			N/A
HERITAGE MITIGATION (INCHES) @ 3:1			N/A
FEMA HERITAGE INVENTORY TABLE			
TAG #	SPECIES	REMOVED	PRESERVED
4175	LO		27.9
4198	LO		33.6
4206	LO		26.6
4210	LO		25
103316	ELM		32.65
103321	LO		48.0
SUB. TOTAL INCHES		N/A	193.8
TOTAL INCHES BY CATEGORY			193.8
HERITAGE PRESERVATION PERCENTAGE			100%
REQUIRED PRESERVATION PERCENTAGE			100%
HERITAGE MITIGATION (INCHES)			N/A
HERITAGE MITIGATION (INCHES) @ 3:1			N/A

TREE STAND DELINEATION CALCULATIONS			
TOTAL PROJECT AREA	16.58	ACRES	
TOTAL EXISTING TREE CANOPY AREA	5.69	ACRES	
SIGNIFICANT TREE CANOPY (25% MIN PRESERVATION)			
TOTAL CANOPY	129,837	SQ FT	
PRESERVED	29,493	SQ FT	
REMOVED	100,344	SQ FT	
PERCENT PRESERVED	22.72%		
MITIGATION REQUIRED	2.28%		
RIPARIAN BUFFER TREE CANOPY (80% MIN PRESERVATION)			
TOTAL CANOPY	62,119	SQ FT	
PRESERVED	24,700	SQ FT	
ADDITIONAL PRESERVED	26,608	SQ FT	
REMOVED	37,419	SQ FT	
PERCENT PRESERVED	82.60%		
MITIGATION REQUIRED	-2.60%		
FEMA TREE CANOPY (80% MIN PRESERVATION)			
TOTAL CANOPY	55,739	SQ FT	
PRESERVED	37,106	SQ FT	
ADDITIONAL PRESERVED	11,200	SQ FT	
REMOVED	18,633	SQ FT	
PERCENT PRESERVED	86.66%		
MITIGATION REQUIRED	-6.66%		
MITIGATION		SQ FT	# TREES
SIGNIFICANT TREE CANOPY (SF CANOPY / 787.5 x 1.5" TREE)		2966.25	5.65
HERITAGE TREE (27.34" / 1.5" TREE)			18.15
	PAYMENT TO THE TREE MITIGATION FUND		\$4,760.00
RIPARIAN BUFFER TREE CANOPY (SF CANOPY / 787.5 x 1.5" TREE)		0.00	0.00
	PAYMENT TO THE TREE MITIGATION FUND		\$0.00
FEMA TREE CANOPY (SF CANOPY / 787.5 x 1.5" TREE)		0.00	0.00
	PAYMENT TO THE TREE MITIGATION FUND		\$0.00

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ISSUE DATE

REVISIONS

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**GALLAGHER TRACT 30" & 24" SEWER EXTENSION**  
BEXAR COUNTY, TEXAS  
**TREE PRESERVATION PLAN TABLES**

JOB NO.: 205-48-02  
DATE: July 11, 2022  
DRAWN: M.W. CHECKED: A.C.

SHEET NUMBER: