E-19: Seguin Road to Nacogdoches Road-Segment 2

Pre-Proposal Meeting
April 16, 2018

Juan Gomez, Ph.D., P.E.

Manager - Pipelines Engineering, SAWS

Diana L. Woltersdorf

Manager - Contract Administration, SAWS

Marisol V. Robles

SMVVB Program Manager, SAVVS

Jeff Farnsworth, P.E.

Design Engineer, Kimley-Horn





Meeting Agenda

- Project Overview
- Oral Statements
- Miscellaneous Items
- Contract Requirements
- Required Experience
- RFCSP Evaluation Process
- Evaluation Criteria
- SMWB
- Submittal Preparation

- Additional Reminders
- Communication
- Key Dates
- Additional Project Information
- Work within CoSA Parks
- TXDOT Crossings
- Special Conditions
- Unique Project Challenges
- Coordination with Stakeholders and Property Owners



Project Overview

E-19: Seguin Road to Nacogdoches Road – Segment 2

- Replacement of 16,500 LF of existing 48" and 42" gravity sewer main with approximately 15,500 LF of 78" and 60" gravity sewer.
- Project limits extend at the upstream end of E-19 Segment I approximately 1,300 feet north of Rittiman Rd., north along Holbrook Rd, across Austin Highway, along Ira Lee, across Loop 410 and ends approximately 400 feet north of Marymont Park.



Oral Statements

Oral statements or discussion during the pre-proposal meeting will not be binding, nor will it change or affect the terms or conditions within the Plans and Specifications for this Project. Changes, if any, will be addressed only via an Addendum.

Pre-Proposal Meeting

- Non-mandatory pre-proposal meeting
- Attendees should sign-in
- Sign-in sheet will be posted on SAWS website
- Key project information:
 - 731 calendar days
 - Construction estimate is \$38,900,000
 - Construction services being procured through RFCSP



Contract Requirements

- Weekly submission of Certified Payroll using LCP Tracker software
- Maintain insurance coverage during the construction of this Project
- Weekly reporting of subcontractor payments using the Subcontractor Payment Utilization Reporting (SPUR) system
- Submittals and invoicing will be handled through CPMS
- EPA Consent Decree project (found in the Special Conditions)
- Geotechnical report for view on SAWS website



Required Experience

- Installation of large diameter (≥ 60") sanitary sewer pipelines with depths > 20'
 via open cut and trenchless (jacking, boring, tunneling or hand mining with liner
 plate)
 - In narrow corridors with potential conflicts with existing utilities
- Coordination with multiple stakeholders
- Complex sequencing of construction activities with multiple sites
- On-time project completion with accelerated project schedule
- Coordination with governmental agencies influencing project schedules
- Managing bypass pumping of large flows (≥ 20 mgd)
- Experience constructing project, which require archaeological observation during construction and working with local Office of Historic Preservation



RFCSP Evaluation Process

- Selection Committee will score the proposals based on the evaluation criteria published in the SIR
- Price will be calculated (lowest price receives the highest points) and added to final scores
- SMWVB will be added to final scores
- Negotiations, if any
- Board award



CRITERIA	MAX POINTS	SIR PAGES		
Team Qualifications and Experience	20	SIR-2 to SIR-4		
Quality, Reputation, and Ability to Deliver Projects on Schedule and within Budget	25	SIR-4 to SIR-5 SIR-5 to SIR-6		
Project Approach including Delivery Schedule	15			
Price	30	SIR-6		
Small, Minority, and Woman-Owned Business Participation (SMWB)	10	SIR-6 to SIR-7 and GFEP		
TOTAL	100			



Team Qualifications and Experience (20 points)

- Current business structure, type, and stability of organization
- Debarment history, if any
- Litigation, arbitration and claims (length of time varies); reference Supplementary Instructions to Respondents (SIR)
- Years performing construction; legal business name
- Equipment and facilities available for this Project
- Safety History to include TRIR, EMR, and fatalities



Team Qualifications and Experience (cont.)

- Definitions of Personnel, Subcontractor, Key Subcontractors on page SIR-3
- I page Organizational Chart with Key Personnel (KP) for Prime and Key Subcontractors (KS) with availability and percentage of work for duration of Contract
- Clear description of roles for both KP and KS
- 8 ½" x 11" Resumes for all staff on Org Chart with PM's first
 - Not to exceed one page
 - See pages SIR-3 to SIR-4 for required information
 - Capabilities and experience relative to this Project
 - List of current projects assigned to during of this Project



Quality, Reputation and Ability to Deliver Projects on Schedule and within Budget (25 points)

- Company On-Time Completion on Similar Projects in Past 10 years
 - List and describe 5 completed projects within past 10 years of similar size, scope and complexity
 - Provide valid, previously verified contact information
 - Address a.-i. on page SIR-4, which outlines all of the required project information needed for the evaluation of this criteria
 - A minimum of 2 of the 5 projects must have been performed by the Construction Manager, PM, and/or Project Superintendent



Quality, Reputation and Ability to Deliver Projects on Schedule and within Budget (cont.)

- Company On-Time Completion on Similar Projects in Past 10 years (cont.)
 - Identify if projects were on-time and within budget.
 - If not on time, describe recovery/plan schedule and whether project brought back on schedule
 - If SAWS experience:
 - I of 5 projects listed should be a SAWS project
 - Also, include a complete list of all completed SAWS projects within the last 5 years



Quality, Reputation and Ability to Deliver Projects on Schedule and within Budget (cont.)

- Key Subcontractors Performance on Similar Projects within last 10 years
 - Provide 2 projects that the identified Key Subcontractor Project
 Superintendent participated in that were of similar size, scope and complexity within the last 10 years
 - Provide valid, previously verified contact information
 - Address a.-i. on page SIR-5, which outlines all of the required project information needed for the evaluation of this criteria
 - Identify if projects were on-time and within budget.
 - If not on time, describe recovery schedule and whether project brought back on schedule



Project Approach including Delivery Schedule (15 points)

- Project Approach narrative indicating:
 - Milestones
 - Specific critical processes and critical path items
 - Phases
 - Permits
 - Approvals
 - Coordination with stakeholders
 - Procurements
- Include corresponding Primavera or MS Project (CPMS milestone) schedule



Project Approach including Delivery Schedule (cont.)

- Project approach for procuring long-lead items, ensuring critical path items
- Coordination with key stakeholders
- Innovative ideas for cost savings
- Quality management plan (steps, safeguards, subcontractor oversight, QA/QC process, document control)
- List and describe instances unforeseen circumstances conditions were encountered and recovery plan, if any
- Approach to mitigate and manage unforeseen conditions, if encountered on this Project



SMWB Goal

Industry	SMWB Goal	
Construction	20%	

Accepted SMWVB Certification Agency

South Central Texas Regional Certification Agency

(Includes the Texas Historically Underutilized Business "HUB" Program)

Minimum Qualifications for SMWVB recognition:

- SBE-Certified (even MBEs and WBEs)
- Local office or local equipment yard



Accepted SMWVB Certifications

- Minority Business Enterprise (MBE) (Includes AABE)
- Small Business Enterprise (SBE)
- Woman-owned Business Enterprise (WBE)
- Veteran-owned Business Enterprise (Tracked, but not eligible for points)

SMWB Scoring – To be updated in Addendum

Proposed SAWS Construction Alternative Delivery Method SMWB Scoring:

The maximum number of SMWB points to be earned is 10 points. Firms may use any combination of points below when attempting to meet the SMWB goals. Self-performance and subcontracting may be used to achieve the aspirational goals and earn points. SMWB prime contractors and/or subcontractors must be certified by the South Central Texas Regional Certification Agency, and must have a local presence in the San Antonio Metropolitan Statistical Area in order to be counted for SMWB points. All prime contractors firms, whether SMWB or not, are eligible to earn the maximum number of SMWB points (10).

- I. M/WBE Scoring Method: 10 Points (By percentage) 20.00% M/WBE Goal
- MBE Participation Percentage between 1% and 4.99%: I Point
- MBE Participation Percentage between 5% and 9.99%: 2 Points
- MBE Participation Percentage between 10% and 14.99%: 4 Points
- MBE Participation Percentage between 15% and 16.99%: 5 Points
- MBE Participation Percentage between 17% and 19.99%: 8 Points
- MBE Participation Percentage meeting or exceeding 20.00%: 10 Points
- 2. SBE (Non-M/WBE) Scoring Method: 5 Points (By percentage) 5% SBE Goal
- SBE Participation Percentage between 1% and 1.99%: I Point
- SBE Participation Percentage between 2% and 2.99%: 2 Points
- SBE Participation Percentage between 3% and 3.99%: 3 Points
- SBE Participation Percentage between 4% and 4.99%: 4 Points
- SBE Participation Percentage meeting or exceeding 5.00%: 5 Points



Good Faith Effort Plan (GFEP) FAQs

Q: Is the 20% SMWB goal mandatory?

A: No, but we ask prime consultants to do their best with good faith outreach efforts. If the goal is not met, proof of outreach efforts is required with the submittal.

Q: What if I am having trouble finding SMWB subconsultants?

A: Please email the SMWVB Program Manager with the scopes of work you are seeking. You will receive lists of local SMWVB-certified firms to contact.

Q: What if my business is SMWB-certified? Do I need to find SMWB subs?

A: If your firm is SMWVB-certified, you will most likely meet the goal. However, the GFEP is a required document, and a good faith outreach effort is still necessary.

• Q: What if I have questions about the GFEP?

A: Please contact the SMWVB Program Manager at 210-233-3420, or at marisol.robles@saws.org. GFEP questions can be asked at any time before the submittal is due.



Post Award: Subcontractor Payment & Utilization Reporting (S.P.U.R.) System & Subcontractor Changes





Subcontractor Change Request

Any changes in subcontractors or suppliers requires prior approval from SAWS:

http://www.saws.org/business center/contractsol/forms.cfm or

http://www.saws.org/business_center/contractsol/forms/SMWBChangeForm.pdf

THE System							
Name of Contractor:							
Project Name & Number:							
Submits the following approval request of the following addition(s) and/or deletion(s) on the Affirmed List of Subcontractors, as originally submitted as part of the BID/PROPOSAL/CONTRACT. CHANGES							
ADD	DELETE	NAME OF SUBCONTRACTOR	SBE, MBE, VBE, WBE		CRIPTION OF WORK O BE PERFORMED	A	PERCENT & DOLLAR MOUNT OF CONTRACT
			-				
			-				
			-				
			-				
			-				
			-				
			-				
JUSTIFICATION							
AFFIRMATION THE ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF, I FUTHER UNDERSTAND AND AGREE THAT THIS DOCMENT SHALL BE ATTACHED THERETO AND BECOME A BINDING PART OF THE CONTRACT.							
Name & Title of Authorized Requestor:							
Signature of Authorized Requestor: Date:							
SMWVB PI	ROGRAM M	ANAGER:		DATE APPROVED:			
CONTRACT	TING DIRECT	ror:		DATE APPROVED:			
Office Use On	nly:	S.P.U.R. SystemCPMS	Project I	Hard File			



Page 24

Submittal Packet Preparation

- Utilize the Proposal Response Checklist
 - Original proposal (1) with required information differs from copies (7)
- Thoroughly review scope and ensure project examples and key personnel resumes clearly show similar experience
- Review Instructions to Respondents
- Thoroughly review evaluation criteria and respond with all required information to maximize points
 - Do so using proposal packet forms*
- Avoid "boilerplate" responses
- Verify contact information for all project references, if SAWS is not able to contact reference, points may be deducted or proposal deemed non-responsive



^{*}To be provided via Addendum and posted on SAWS website in Word

Submittal Packet Preparation (cont.)

- Ensure required documents are submitted and signed, (i.e. Respondent Questionnaire, CIQ, etc.)
- Entire proposal should create a clear picture of Project Team experience and capabilities (Org chart, projects, and resumes for KP and KS)
- Ensure both Price Proposal A and Price Proposal B are submitted
 - Double check extensions for both proposals
 - Acknowledge Addendums on Proposal Signature Page
- Responses are limited to 75 pages*
 - Required forms and dividers tabs do not count towards limit



Additional Reminders

- Ask questions clarification questions re: project, RFCSP and evaluation criteria early to ensure they are captured in an Addendum
- Register through the SAWS website to ensure access to the most current information (addendums, supplemental information, etc.)
- Obtain Geotechnical Report from SAWS website and review



^{*} Subject to change with release of proposal packet forms

Communication Reminders

- There should not be any communication with the following:
 - ✓ Design Engineer (Kimley-Horn)
 - ✓ SAWS Project Manager or Project Engineer
 - ✓ Any other SAWS staff
 - ✓ City Council member or staff
 - ✓ SAWS Board of Trustees
- This includes phone calls, emails, letters, or any direct or indirect discussion of the RFCSP
- Release of RFCSP Board Award
- If under contract with SAWS for another project, indicate this to SAWS staff that your company intends to submit for this RFCSP and do not discuss



Key Dates

- April 23, 2018 by 4:00 PM
- April 26, 2018 by 10:00 AM
- May 4, 2018 by 10:00 AM
- May 2018
- May 2018
- June 5, 2018
- June 2018

Questions Due

Addendum Posted to SAWS Website

Proposals Due

Proposals Evaluated

Selected Contractor Notified

SAWS Board Approval and Award

NTP Issued



Submission Due Date

- Proposals due no later than 10:00 AM CDT Friday, May 4,
 2018
- Follow specific delivery instructions:
 - Deliver to 2800 U.S. Highway 281 North, Suite 171, Customer Service Building, Counter Services
 - Make arrangements if mailing a response to this RFCSP
 - Late responses will not be accepted and will be returned unopened

Construction Contract Background

- Traffic Control Plans, Bypass Pumping Plan will be responsibility of contractor and at no cost to SAWS
- Contractor's Proposal Packet Checklist
- Detailed Construction schedule must be part of the Proposal
- Submittals can be submitted as soon as receiving notification of contract award after CPMS training (if necessary) has been completed



Contract Background (SAWS Inspector)

- Prior to commencing work, contractor must submit and receive approval of the following:
 - Bypass plan
 - Traffic control plan
 - Construction Schedule
 - Pre-site video
 - Lease agreement
- There will be one pre-construction meeting
 - Remaining submittals will be required
- Contractor must submit a Work Progress Schedule within 10 days of NTP and monthly thereafter



Contract Background

External Agency Permit Requirements (TXDOT, UPRR, etc.)

- Contractor to follow requirements identified in corresponding permits
- Changes in field that are cited by the Agency's Inspector will require concurrence and approval from the SAWS Inspector first.
- If contractor wants to work weekends, notification is required 48 hours in advance to SAWS Construction Inspections. Requests should be send to constworkreq@saws.org.



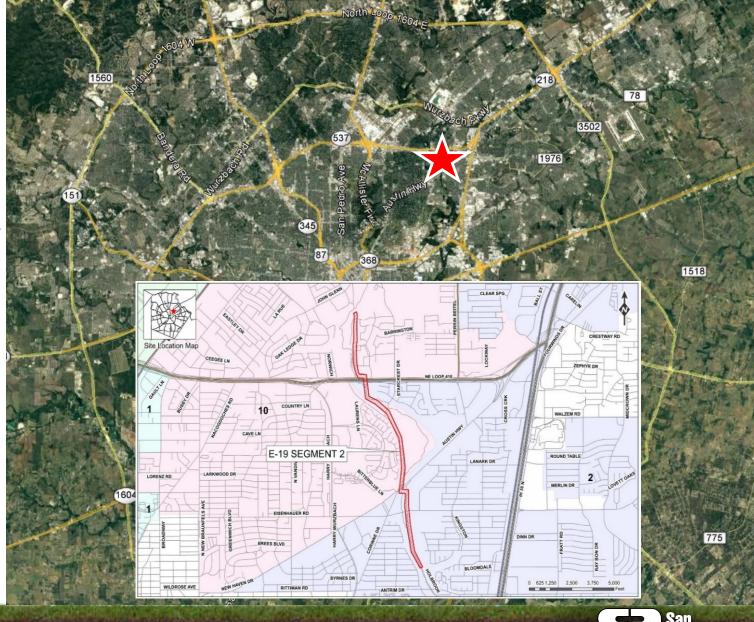
Contract Background

- All RFIs, RFPs, submittals, and any other items related to construction must be uploaded and processed via CPMS.
- No work can be performed by the Contractor unless the cost for that line item is on the contract.
- All traffic control plans must be submitted and approved by CoSA.
- Change orders, if any, will be based on negotiated prices not in the bid proposal.
 - Negotiated using RS Means



Project Location

- Along Salado Creek
- North of Rittiman Rd
- North of Marymont Park
- Narrow corridor





Proposal A vs Proposal B



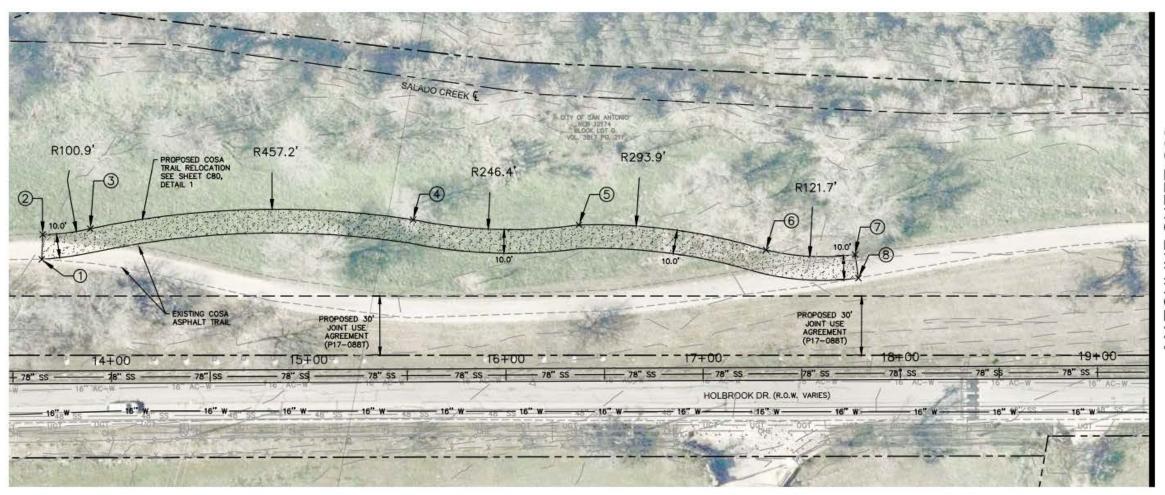


Work within CoSA Parks

- Coordination
- Advanced notice prior to construction
- Stay within the limits of the Joint Use Agreement
- Signage and notices to park users
- Temporary fencing and screen mesh fabric
- Closure of trails and temporary relocation
- Restoration
- Work outside "normal" working hours
- Access for shaft at Station 113+05 4 weeks



Work within CoSA Parks



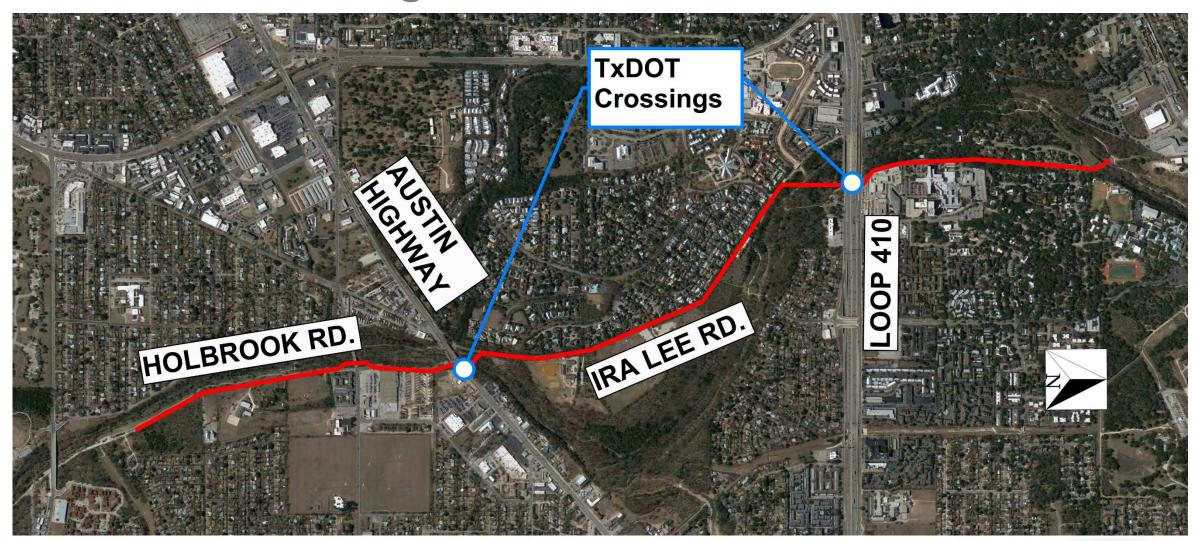
Special Conditions

Coordination with Property Owners and Stakeholders

- TXDOT Crossings
- CoSA Greenway Trail System Relocation/Protection
- Toomey Property
- NE Baptist Hospital
- Marymont Properties
- Temporary Fencing and Separation of Construction Activities
- CPS pole Bracing

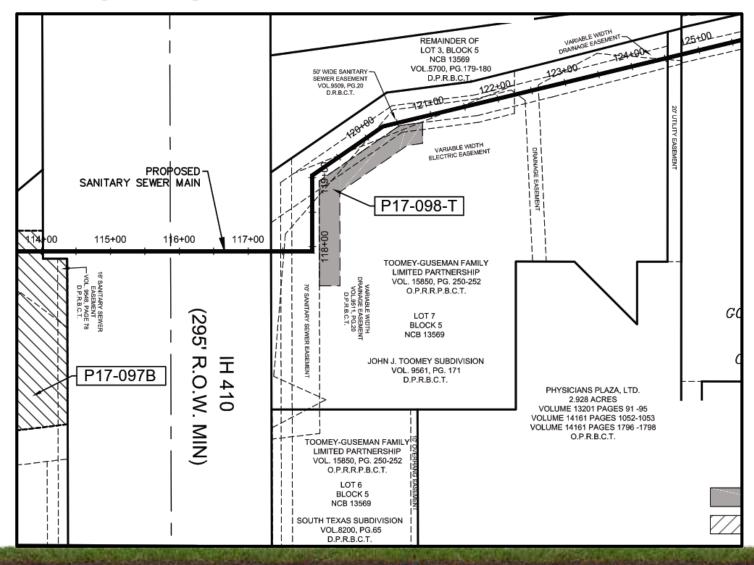


TXDOT Crossings



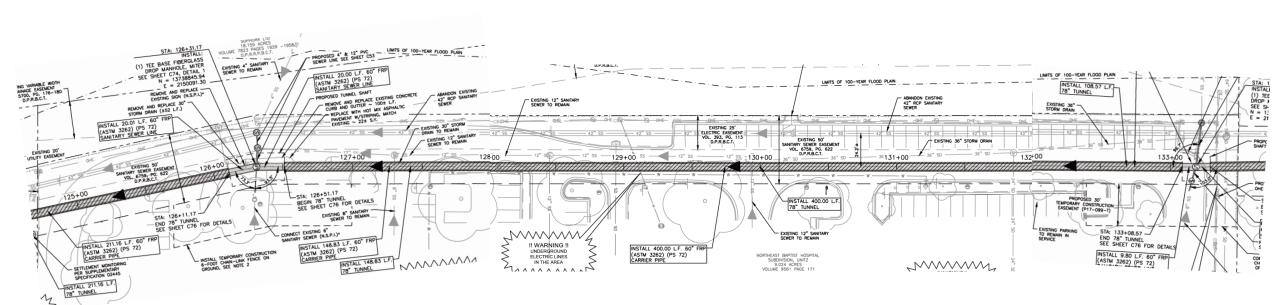


Toomey Property

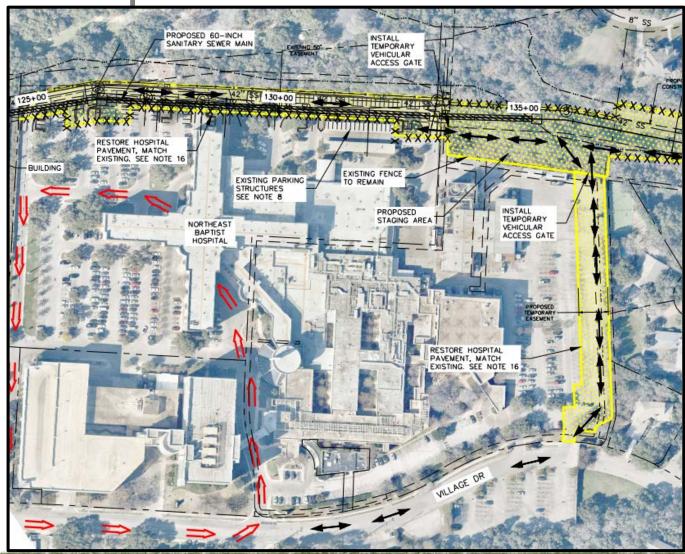




NE Baptist Hospital



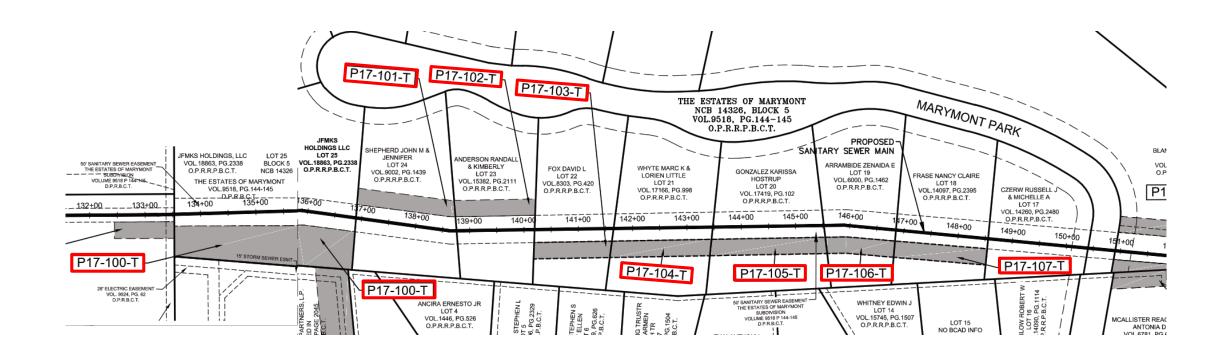
NE Baptist Hospital





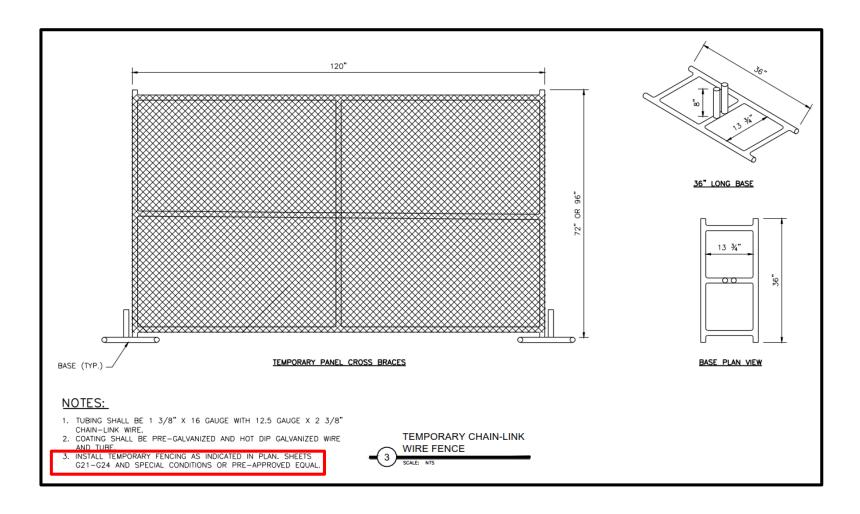
Marymont Easements

Temporary easements not guaranteed.





Temporary Fencing





Sequencing and Coordination

- Ira Lee Open Cut and Trenchless
 CPS pole relocation
- Oncology Building Construction
 Resident Access
- Toomey
- E19 Segment | Tie in
- E20 Segment I Tie in

- Temporary Water Line

CONSTRUCTION SEQUENCING LEGEND

PHASE 1: START SEGMENT 2 TO AUSTIN HWY*

- 1A: TUNNEL SEGMENTS OF 78-INCH MAIN BEGINNING FROM STA. 5+62 TO AUSTIN HIGHWAY AS INDICATED IN PLANS, SHEET C1-C39.
- 1B: RELOCATE POWER POLES BY OTHERS (CPS ENERGY).
- 1C: INSTALL, TEST, AND PUT IN SERVICE PROPOSED 16-INCH WATERLINE FROM EISENHOWER INTERSECTION NORTH TO AUSTIN HIGHWAY PRIOR TO SEWER LINE CONSTRUCTION (STA. 32+00 TO END), PROVIDE TEMPORARY CAP AT STATION 32+00 (N.S.P.I)****
- 1D: SET UP TEMPORARY 12-INCH WATERLINE, SEE SHEETS C81-C84
- 1E: SHUTDOWN 16-INCH WATERLINE SOUTH OF EISENHAUER (CLOSE SOUTH VALVE AT HOLBROOK AND EISENHAUER INTERSECTION), CONTRACTOR SHALL COORDINATE WITH SAWS.
- 1F: RELOCATE CITY OF SAN ANTONIO PARKS ASPHALT TRAIL. CONTRACTOR SHALL COORDINATE WITH COSA PARKS.
- 1G: INSTALL 78-INCH MAIN FROM STA, 5+62 TO AUSTIN HWY.
- 1H: INSTALL 78-INCH MAIN AND TUNNEL SEGMENTS FROM SEG 1/ SEG 2 TIE-IN TO STA. 5+62 ***
- 11: INSTALL AND TEST SEWER LATERAL LINES A, B, C AND D ***.
- *PHASE 1 CONSTRUCTION ACTIVITIES CANNOT BEGIN UNLESS ONE OF THE FOLLOWING IS SATISFIED:
- A. CONSTRUCTION ACTIVITIES BY E19 SEGMENT 1 CONTRACTOR MUST BE COMPLETE, LOCAL ACCESS TO RITTIMAN ROAD MUST BE AVAILABLE, OR B. CONTRACTOR MUST PROVIDE LOCAL ACCESS TO EISENHAUER ROAD, THROUGH SEGMENT 2 PHASE 1 CONSTRUCTION ZONE

PHASE 2: AUSTIN HWY TO IRA LEE

2A: TUNNEL SEGMENTS OF 78-INCH MAIN AS INDICATED IN PLANS, SHEET C1 - C39. TUNNEL CROSSING SALADO CREEK SHALL BE CONSTRUCTED DURING DAY TIMES WHEN SURFACE WATER IN CREEK IS MINIMAL.

PHASE 3 : IRA LEE TO E-7 & E-19 TIE-IN

- 3A: INSTALL 78-INCH MAIN FROM IRA LEE TO MANHOLE STA. 53+42 ***
- 3B: INSTALL AND TEST SEWER LATERAL LINES E AND F***
- 3C: TEST SANITARY SEWER LINE FROM SEG 1 TIE-IN TO MANHOLE STA, 53+42 AND TIE-IN TO SEGMENT 1 ***
- 3D: TIE-IN E-7 AT MANHOLE AT STA. 54+25 ***
- *** SEGMENT 1 SHALL BE COMPLETE AND IN SERVICE PRIOR TO TIE-IN. CONTRACTOR SHALL COORDINATE WITH SAWS PHASE 4 : E-7 & E-19 TIE-IN ALONG IRA LEE RD
- 4A: TUNNEL SEGMENTS OF 60-INCH MAIN AS INDICATED IN PLANS, SHEETS C1-C39.
- 4B: INSTALL, TEST, AND PUT IN SERVICE PROPOSED 16-INCH WATER LINE PRIOR TO SEWER LINE CONSTRUCTION.
- 4C: INSTALL 60-INCH MAIN FROM E-7 / E-19 TIE-IN TO ALIGNMENT DEPARTURE FROM IRA LEE RD AT STATION 106+00
- 4D: INSTALL 8-INCH SEWER LATERAL NEAR STATION 88+60 BUT LEAVE EXISTING MANHOLE (TO LATER BE REMOVED) ON 15-INCH SEWER IN

4E: INSTALL MANHOLE NEAR STATION 98+00 ON EXISTING 15-INCH SEWER AND ABANDON 15-INCH SEWER NORTH OF MANHOLE DURING PHASE 8, LEAVE 15-INCH SEWER IN SERVICE SOUTH OF MANHOLE NEAR STATION 98+00 TO CONNECTION AT MANHOLE NEAR STATION 92+15. 15-INCH SANITARY SEWER SOUTH OF MANHOLE AT STATION 92+15 SHALL BE ABANDONED TO MANHOLE NEAR STATION 67+10.

PHASE 5 : IRA LEE RD TO NORTHEAST BAPTIST HOSPITAL

- TUNNEL SEGMENTS OF 60-INCH MAIN AS INDICATED IN PLANS, SHEET C1-C39. TUNNEL CROSSING SALADO CREEK SHALL BE CONSTRUCTED DURING DAY TIMES WHEN SURFACE WATER IN CREEK IS MINIMAL.
- INSTALL 60-INCH MAIN FROM IRA LEE RD TO SOUTH END OF NE BAPTIST HOSPITAL PROPERTY.
- 5C: INSTALL SANITARY SEWER SERVICE AND LIFT STATION AT ONCOLOGY BUILDING.

PHASE 6: NORTHEAST BAPTIST HOSPITAL

- 6A: TUNNEL SEGMENTS OF 60-INCH MAIN AS INDICATED IN PLANS, SHEETS C1-C39.
- 6B: NOTIFY HOSPITAL 6 WEEKS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES ON PROPERTY.
- COORDINATE WITH HOSPITAL TO INSTALL TEMPORARY PARKING LOT TRAFFIC SIGNS TO DETOUR TRAFFIC IN PARKING LOT AWAY FROM CONSTRUCTION AREA
- 6D: INSTALL TEMPORARY CONSTRUCTION FENCING TO ISOLATE CONSTRUCTION AREA FROM HOSPITAL PARKING LOT.
- 6E: INSTALL 12-INCH AND 8-INCH SEWER LATERALS TO MANHOLES AT STATIONS 126+31 AND 133+18.

PHASE 7: NORTHEAST BAPTIST HOSPITAL TO E-20 TIE-IN

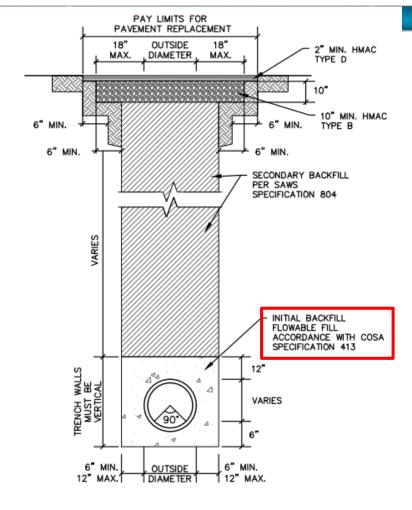
- 7A: TUNNEL SEGMENTS OF 60-INCH MAIN AS INDICATED IN PLANS, SHEETS C1-C39. TUNNEL CROSSING SALADO CREEK SHALL BE CONSTRUCTED DURING DAY TIMES WHEN SURFACE WATER IN CREEK IS MINIMAL.
- 7B: INSTALL 60-INCH SEWER FROM NE BAPTIST HOSPITAL TO E-20 TIE-IN.

PHASE 8: COMPLETE 60-INCH SEWER AND MAKE ASSOCIATED TIE-INS

- 8A: COMPLETE INSTALLING 60-INCH AND SMALL DIAMETER SEWER LINES AND TEST.
- COMPLETE SMALL DIAMETER SEWER CONNECTIONS TO 60-INCH SEWER AND ASSOCIATED MANHOLES AND TRANSFER FLOWS INTO 60-INCH SEWER, FROM DOWNSTREAM TO UPSTREAM NORTH OF MANHOLE AT E-7 TIE-IN.
- TRANSFER FLOW INTO 60-INCH SEWER FROM EXISTING 42-INCH SEWER NORTH OF E-7 TIE-IN.
- 8D: ABANDON EXISTING 48-INCH AND 42-INCH SEWER THROUGHOUT PROJECT.
- 8E: INSTALL PROPOSED 16-INCH WATERLINE FROM START OF SEGMENT 2 TO EISENHAUER ROAD **
- **EXISTING 48-INCH SANITARY SEWER MUST BE ABANDONED PRIOR TO WATERLINE INSTALLATION



Flowable fill within the initial backfill

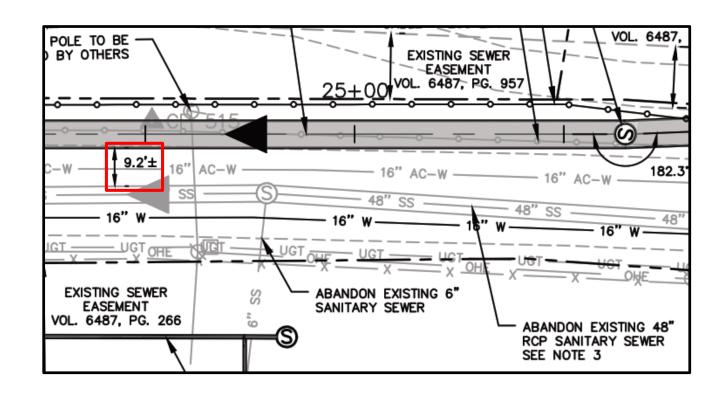


NOTE

- THE SURFACE OF THE BACKFILLED TRENCH SHALL BE RESTORED TO MATCH THE PREVIOUS EXISTING CONDITIONS. THIS SHALL INCLUDE FINAL GRADING, PLACEMENT OF TOPSOIL AND SEEDING, PLACEMENT OF SOD (SUCH AS AT HOMES OR BUSINESSES THAT HAD MAINTAINED GRASS), OR OTHER UNPREPARED AND PREPARED SURFACES.
- BACKFILL METHODS SHOWN IN THIS DETAIL SHALL BE USED FOR ALL OPEN CUT SEWER MAINS LARGER THAN 30-INCH DIAMETER.

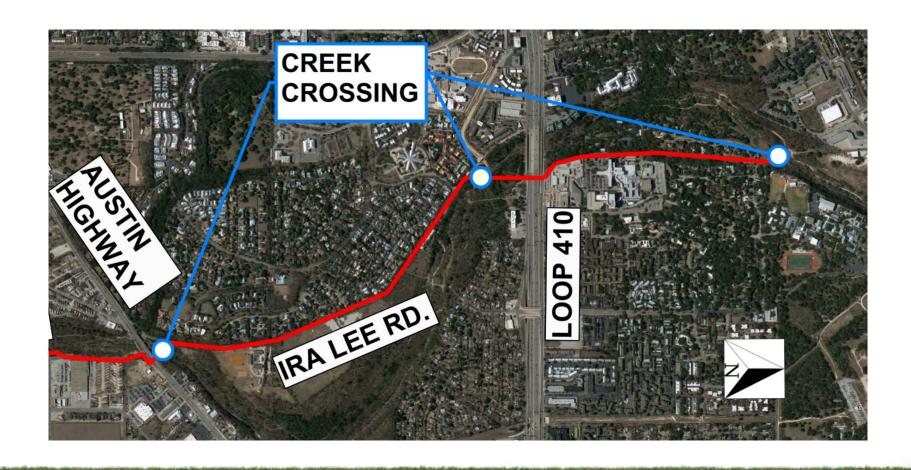


Proximity of existing sewer main to proposed sewer main



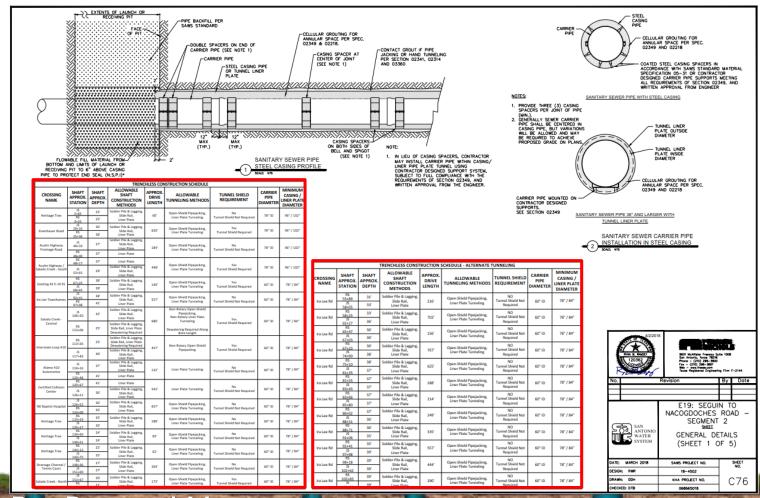


Tunnel Creek Crossings (3)



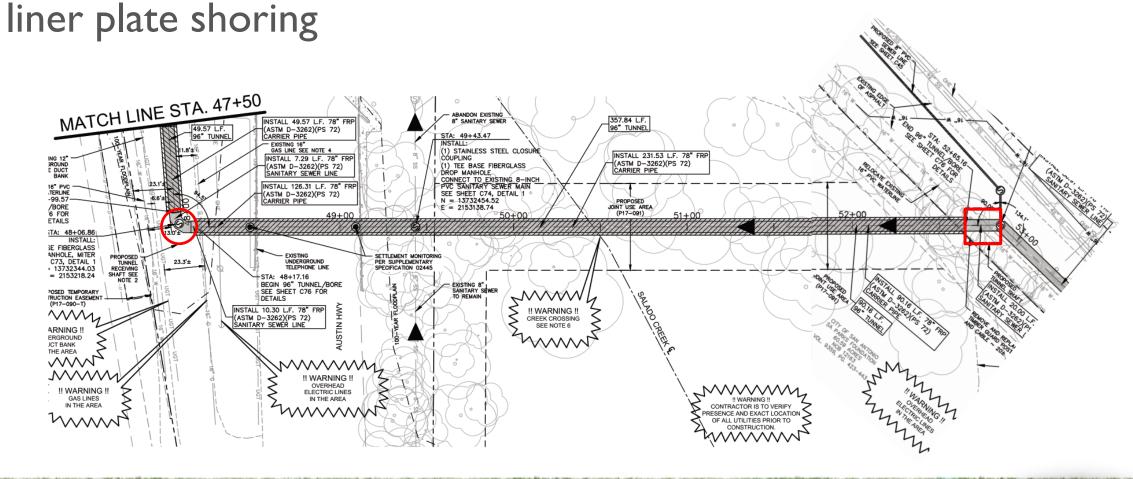


Trenchless Construction Schedule Table (Sheet C76)



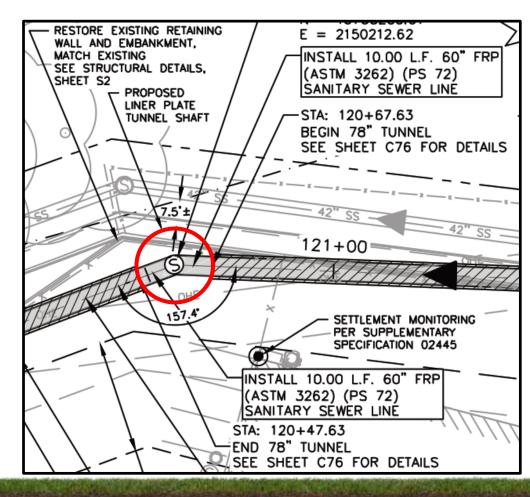


Circular tunnel shafts are intended to be receiving shafts with



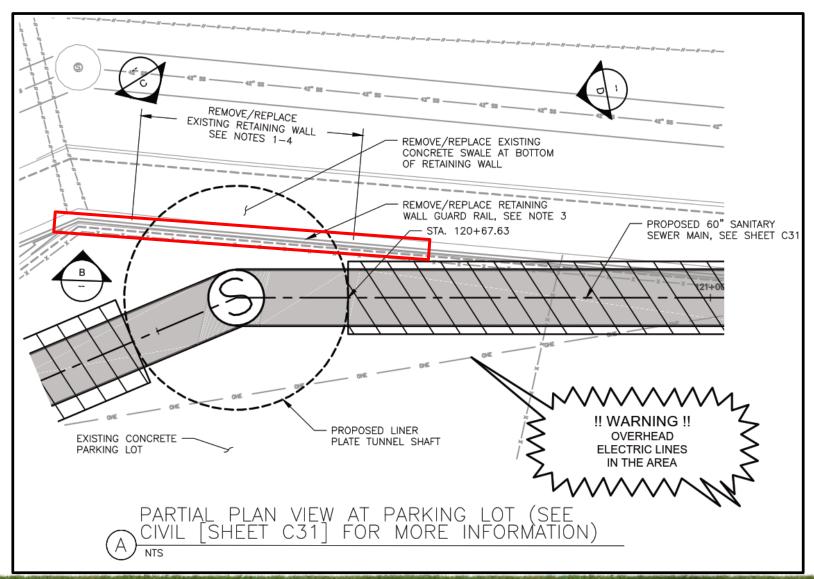
Circular tunnel shafts are intended to be receiving shafts with

liner plate shoring





Toomey Retaining Wall (Sheet S2)





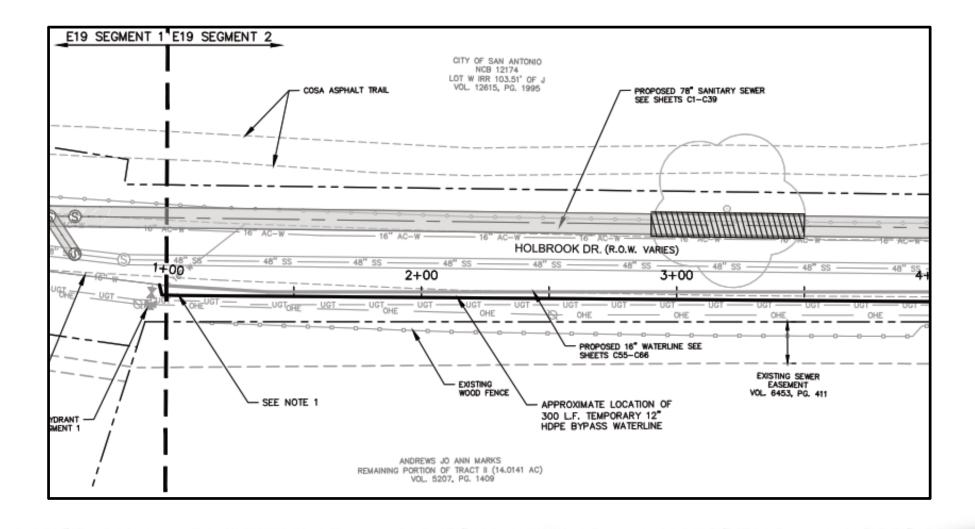
Toomey Retaining Wall (Sheet S2)



Toomey Retaining Wall (Sheet S2)



Temporary Water Main





SMWVB Questions

Questions related to SMWB may be directed to SAWS' SMWVB Program Manager until the RFCSP deadline. Her contact information is as follows:

Marisol V. Robles

Contract Administration Department San Antonio Water System

Email Address: Marisol.Robles@saws.org

Telephone No.: 210-233-3420



Questions

- Should be submitted no later than April 23, 2018 at 4:00 PM CDT
- Must be submitted in writing:

Jessica Goforth

Contract Administrator

Contract Administration Department
San Antonio Water System

Jessica.Goforth@saws.org



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