

E-54 Sewer Main Project

Gerardo Gomez, P.E.

Senior Project Engineer, Sewer & Water Pipeline

Roxanne Lockhart

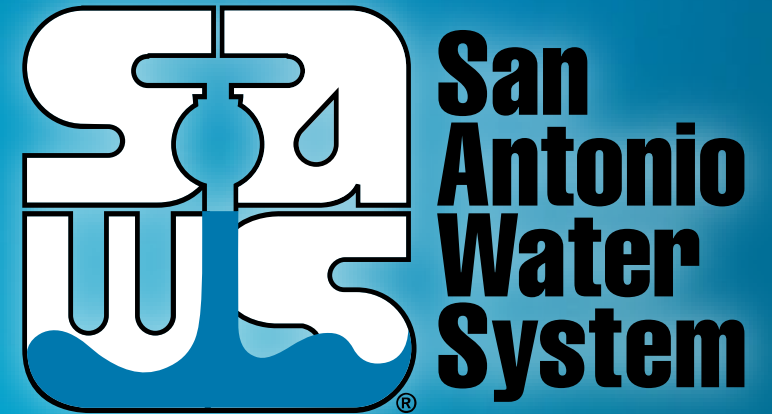
Contract Administrator

Tracy M. Burns

SMWVB Specialist

Marshall Preas, P.E.

Sr. Project Manager, Pape-Dawson Engineers



Non-Mandatory Pre-Proposal Meeting

May 26, 2022

MAKING SAN ANTONIO
WATERFUL 

WebEx Meeting Information

- With the switch to an online WebEx meeting, attendees can:
 - Access the presentation thru the WebEx link to follow along real-time
 - Access via phone and follow along with the PowerPoint posted on the SAWS web at: https://apps.saws.org/business_center/contractsol
 - Use the chat feature to ask questions, or
 - Ask questions through email to roxanne.Lockhart@saws.org
 - ✓ SAWS will read questions aloud
- Please mute your devices during the meeting

Oral Statements

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

Meeting Agenda

- General Information
- SMWB Requirements
- Contract Solicitations Website
- Vendor Registration
- Contract Requirements
- Evaluation Process
- Required Experience
- Evaluation Criteria
- Proposal Packet Preparation
- Key Dates
- Communication Reminders
- Proposal Due Date
- Contact Information
- Project Overview
- Questions

General Information

- This is a non-mandatory pre-proposal meeting
- The construction estimate is \$33,239,392.85
- Construction services being procured through Request For Competitive Sealed Proposals (RFCSP) under Texas Government Code 2269
- This is also a Developer project between SAWS and Continental Homes of Texas, L.P.
- Construction duration is 471 calendar days

Aspirational SMWB Goal

Industry	Aspirational SMWB Goal
Construction	20%

The aspirational SMWVB goal is 20% of your total Price Proposal

Minimum Qualifications for SMWB recognition:

- **Certification from the South Central Texas Regional Certification Agency**
 - Businesses must be SBE-Certified (including MBEs and WBEs)
 - Texas Historically Underutilized Business “HUB” also recognized
- **Local office or local equipment yard**
 - Atascosa, Bandera, Bexar, Comal, Frio, Guadalupe, Kendall, Kerr, McMullen, Medina, Uvalde and Wilson

Good Faith Effort Plan (GFEP) FAQs

- **Q: Is the 20% SMWB goal mandatory?**

A: No, but we ask prime contractors 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 subcontractors?**

A: Outreach lists from the South Central Texas Regional Certification Agency are now Excel-exportable at www.sctrca.sctrca.org. If you are having trouble with the downloads, please email the SMWB Program Manager.

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

A: If your firm is SMWB-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: Do I need to include all my subcontractors in the GFEP or just those that qualify towards the SMWB goal?**

A: All subcontractors need to be included in the GFEP, even those that may not count towards the SMWB goal.

- **Q: What if I have questions about the GFEP?**

A: Please contact the SMWB 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.

SMWB Scoring

Proposed SAWS Construction Alternative Delivery Method SMWB Scoring:

All respondents may earn the maximum number of SMWB points (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 eligible for SMWB points.

1. M/WBE Scoring Method: 10 Points (By percentage) 20.00% M/WBE Goal

- MBE Participation Percentage between 1% and 4.99%: 1 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%: 1 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

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

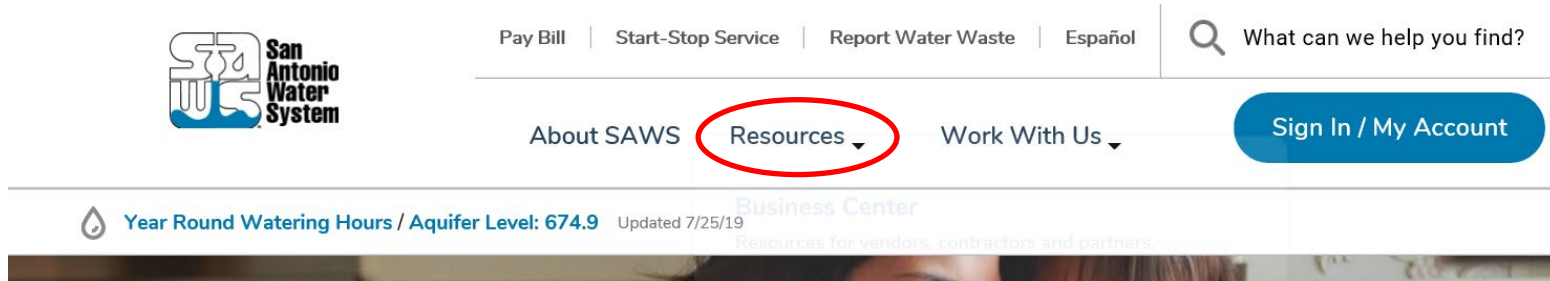
- 1. Subcontractor & Supplier Payment Tracking
- 2. Subcontractor and Supplier Additions or Substitutions
- 3. Must be Current and Accurate before Retainage is released

<https://saws.smwbe.com>

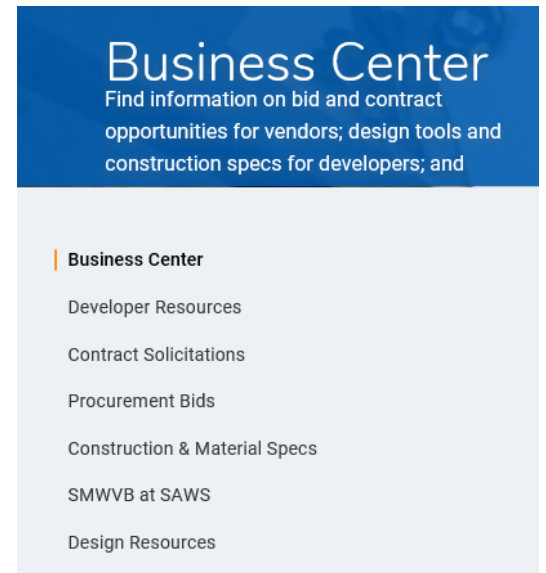


Contract Solicitations Website

- To locate the Contract Solicitations website choose Resources




- At the drop-down menu choose Contract Solicitations





Contract Solicitations Website

- Choose the specific project
- The following buttons are now located under the advertisement:
 - Notify Me
 - Plan Holder’s List
 - Downloads
 - Plans
 - Specs
 - Addendums
 - Geotechnical Data Report




 Non-Mandatory
Pre-Bid Meeting
 2:00 PM, Thursday May. 26, 2022
 WebEx


 Notify Me
 Receive updates sent straight to your inbox.
[Subscribe](#)


 Plan Holders List
 View plan holders list.
[View List](#)

Downloads

[CO-00503 Access Map](#)
 May. 13, 2022



[CO-00503 Specifications](#)
 May. 13, 2022



Note: You must be logged in to access this document.

[CO-00503 Plans](#)
 May. 13, 2022



Note: You must be logged in to access this document.

Vendor Registration & Notification (VRN)

- Please register through SAWS Vendor Registration Program on the SAWS website at www.saws.org to ensure access to the latest information
- To receive updates, including Addendums, for specific projects, registered vendors must 'Subscribe' to the project by selecting the project, and clicking 'Subscribe' under the Notify Me box

https://apps.saws.org/Business_Center/Contractsol/



Notify Me

Receive updates sent straight to your inbox.



Subscribe

Contract Requirements

Prevailing Wage Rate and Labor Standards – Section 2.10 of the General Conditions

- Certified payroll to be submitted on weekly basis for prime and subs and should be current and accurate before retainage can be released
- Wage decisions are included within the specifications
- Contractors and subcontractors to utilize LCP Tracker
- Site visits are random and unannounced
- Interviews will be conducted and will be private & confidential
- Payroll records are subject to review
- All apprenticeship programs will need to be approved by Department of Labor prior to starting
- Contractors are responsible for sub-contractor payroll
- Late payrolls may delay contractor payments and/or release of retainage from SAWWS

Contract Requirements

- Insurance requirements are found in Section 5.7 of the GCs
 - Installation Floater coverage required in lieu of Builder's Risk coverage
- Contractor must maintain insurance coverage during the construction of this Project
- SAWS will ask for insurance prior to Board award to expedite execution of the contract
 - Any deficiencies must be corrected prior to Board award
 - Insurance must be compliant prior to executing the contract

Contract Requirements

- The Contractor shall perform the Work with its own organization on at least 40% of the total original contract price to be confirmed by the Bidder on page I of the Good Faith Effort Plan.
- Liquidated Damages are \$2,000 per day

Evaluation Process

- Technical Evaluation Committee (TEC) will score the proposals based on the evaluation criteria published in the Supplementary Instructions to Respondents to determine the Respondent who can provide the best value to SAWS
- Price will be calculated (lowest price receives the highest points) and added to final scores
- SMWB points will be added to final scores
- Selection Evaluation Committee reviews final scores
- Negotiations, if any
- Board award

Required Experience

- Respondents should have the following experience to submit a proposal:
 - Large diameter wastewater pipeline installations are a primary business focus and service, and such services have been successfully provided for at least five (5) continuous years.
 - Must be able to demonstrate within their proposal required experience completely and sufficiently

Evaluation Criteria

Criteria	Weight	Pg. No.
Team Qualifications and Experience	17%	SIR-3
Quality, Reputation, and Ability to Deliver Projects on Schedule and within Budget	15%	SIR-5
Project Approach including Delivery Schedule	18%	SIR-8
Price Proposal	40%	SIR-9
Small, Minority, and Women-owned Business Participation	10%	SIR-10
TOTAL	100%	

Evaluation Criteria

Team Qualifications and Experience

- Organization Structure and Key Information of the Prime Contractor
 - No. of employees, debarment history for last 10 years, litigation/arbitration/claims history for last 3 years, years performing work, clear description of proposed team and 1-page Org Chart, Financial statements for the last three (3) complete fiscal years
- Qualification and Experience of Key Personnel Proposed for this project
 - 8 ½" X 11" sheets, provide resumes, one per person and not to exceed 1 page, for Key Personnel for the Prime Contractor and Key Sub Contractors identified in the Org Chart
- Safety Information for Prime Contractor and Key Subcontractor(s):
 - Provide records showing Total Recordable Incident Rate (TRIR) for each year for the past 5 years for both Prime Contractor and Key Sub Contractors
 - Provide records showing the company's Experience Modifications Rate (EMR) for each year for the past 3 years for both Prime Contractor and Key Sub Contractor(s).
 - List any fatalities in the company's safety history for the Prime Contractor and Key Subcontractor(s).

Evaluation Criteria

Quality, Reputation, and Ability to Deliver Projects on Schedule and within Budget

- Prime Contractor On-time Completion on Similar Projects in the 10 Years:
 - List and describe five (5) completed projects within the last 10 years of similar size, scope, and complexity. Respondents should provide references with contact information to include valid, recently verified email and telephone number of each project.
- Key Subcontractor(s) Performance on Similar Projects in the Past 10 Years:
 - Provide list of 2 projects that the identified Key Subcontractors' Project Manager and/or Project Superintendent(s) participated in that were of similar size, scope and complexity.
 - Describe the role served by the proposed staff on those projects.
 - If Prime Contractor is planning to self-perform the Work and no Key Subcontractors have been identified in the Response, Respondent shall provide a list of 2 additional projects that were of similar scope to the Work that would have been performed by a Key Subcontractor. Prime Contractor's Key Personnel shall have participated in at least 1 of the 2 projects list. Describe the role served by the proposed staff on those projects.

Evaluation Criteria

Project Approach

- Project Approach, please provide the following:
 - Provide narrative of the project approach describing how Respondent will complete this project **include key milestones, specific critical processes and critical path items, phases and/or sequencing, permits, approvals, coordination with stakeholders, and procurements anticipated to complete the project work. Identify potential risks and describe proposed mitigation measures to ensure on-time completion of the Project.**
 - Describe availability of specific equipment and crews. Indicate how they will be utilized for this Project.
 - Explain how Respondent will contact and coordinate with Key stakeholders throughout the Project. Describe how the Respondent will coordinate with property owners and business owners being impacted by the Project. Describe Respondent's approach to securing permits and/or complying with permit requirements for which SAWS is the permit holder.
 - Provide innovative ideas for cost savings (due to method or duration).
 - Provide Quality Management Plan (QMP) describing how the Prime Contractor will ensure that the necessary steps, safeguards, subcontractor oversight, QA/QC processes, and document controls will be implemented to ensure accuracy and successful completion of the Project.

Evaluation Criteria

Project Approach (Cont...)

- Project Schedule, Procurement of Long-Lead Items, and Unforeseen Conditions:
 - Provide detailed precedence style critical path method (CPM) baseline schedule in Primavera or Microsoft Project. The anticipated NTP is September 19, 2022.
 - Provide description of project approach for procuring long-lead times, as well as ensuring critical path items will be addressed adequately.
 - List and describe any instances in which Contractor has encountered unforeseen conditions.
 - Identify whether recovery plan was required
 - Describe the nature of the issue and whether it was promptly resolved or resulted in the Respondent being asked to demobilize.
 - Describe Respondent's approach towards mitigating and managing unforeseen conditions should they be encountered during the construction of this Project.

Evaluation Criteria

PRICE/SMWVB

- Lowest total price will receive all 40 points, maximum score
 - Remaining proposals will receive points based on comparison to the lowest price proposal
- Complete Good Faith Effort Plan (reference Supplementary Instructions to Respondents)

Proposal Packet Preparation

- Electronic Proposals ONLY
- Review Project Scope, Instructions to Respondents and Supplementary Instructions to Respondents
- Utilize the Proposal Response Checklist and Evaluation Criteria forms to ensure all items are included
 - 3 files required for electronic submittal
 - Follow file naming convention

RESPONDENT'S PROPOSAL CHECKLIST

Project Name: E-54 Sanitary Sewer Project
 SAWS Job No. 21-4404
 SAWS Solicitation Number: CO-00503

FILE 1

Titled: PROPOSAL_CO00503_FIRM NAME

- Signed Price Proposal/Acknowledgement of Addenda (BP-1)
 - Price Proposal Items (latest versions)
 - Signed Proposal Certification Page (PC-1)
 - Bid Bond*
 - Financial Statements
- *If proposal is submitted electronically without Bid Bond, SAWS will require check within 24 hour of bid opening
- Cashier's Check or Certified Check

FILE 2

Titled: ORIGINAL PROPOSAL_CO00503_FIRM NAME

- Proposal Checklist
- Statement on President's Executive Orders – Page IR - 8
- Good Faith Effort Plan
- Conflict of Interest Questionnaire – Form CIQ
- W-9
- Proof of Insurability (Letter from Insurer or Sample Certificate of Insurance)
- Respondent Questionnaire
- Evaluation Criteria Forms
 - Team Qualifications and Experience with Resumes and Organizational Chart
 - Quality, Reputation, and Ability to Deliver Projects on Schedule and within Budget
 - Project Approach including Delivery Schedule
- Acknowledgement Form

FILE 3

Titled: COPY_CO00503_FIRM NAME
(Excludes Price Proposal and Financial Statement)

- Proposal Checklist
- Respondent Questionnaire
- Evaluation Criteria Forms
 - Team Qualifications and Experience with Resumes and Organizational Chart
 - Quality, Reputation, and Ability to Deliver Projects on Schedule and within Budget
 - Project Approach including Delivery Schedule
- Acknowledgement Form

I certify that the proposal packet submitted includes the items as indicated above.

Signature

Date

Printed Name

Title

Firm Name

Rev. 3/3/2020

CH-1

Proposal Packet Preparation

- Respondent's Proposals submitted for this RFCSP should clearly demonstrate, completely and sufficiently that:
 - They have the Required Experience
 - Projects performed by Respondent are similar in scope, size and within the last ten (10) years
 - Project Team experience and qualifications (Org chart with roles and responsibilities of proposed team)
- Thoroughly review evaluation criteria and respond with all required information to maximize points
 - Detailed, thorough responses are recommended
 - Avoid “boilerplate” responses

Proposal Packet Preparation

- Double check all mathematical calculations and verify all extensions
- Addendums are acknowledged on the Price Proposal
- Ensure Mobilization and Preparation of Right of Way Line Items do not exceed the percentage allowed
- References and contact information must be valid
 - Confirm phone numbers and email addresses prior to submitting a proposal
 - Project references must be project owners, not consultants, or other contractors
 - Reference responses (or lack of) may have an affect on scoring as part of the evaluation criteria
- Ensure all requested information per the Respondent Checklist and all required documents are submitted and signed (e.g., Respondent Questionnaire, CIQ, etc.)

Key Dates

- May 26, 2022, at 2:00 PM
- June 2, 2022, by 10:00 AM
- June 9, 2022, by 4:00 PM
- June 22, 2022, by 2:00 PM
- June 23, 2022, by 2:00 PM
- June/July 2022
- August 2022
- September 13, 2022
- September 19, 2022

**Non-Mandatory Pre-Proposal Meeting
Questions Due**

Addendum Posted to SAWS Website

Last chance to request FTP Site

Proposals Due

Proposals Evaluated

Negotiations, if any

SAWS Board Approval and Award

NTP Issued

Communication Reminders

- There shall not be any communication with the following during the Proposal period:
 - ✓ SAWS Project Manager, the Developer 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 Proposal

Proposal Due Date

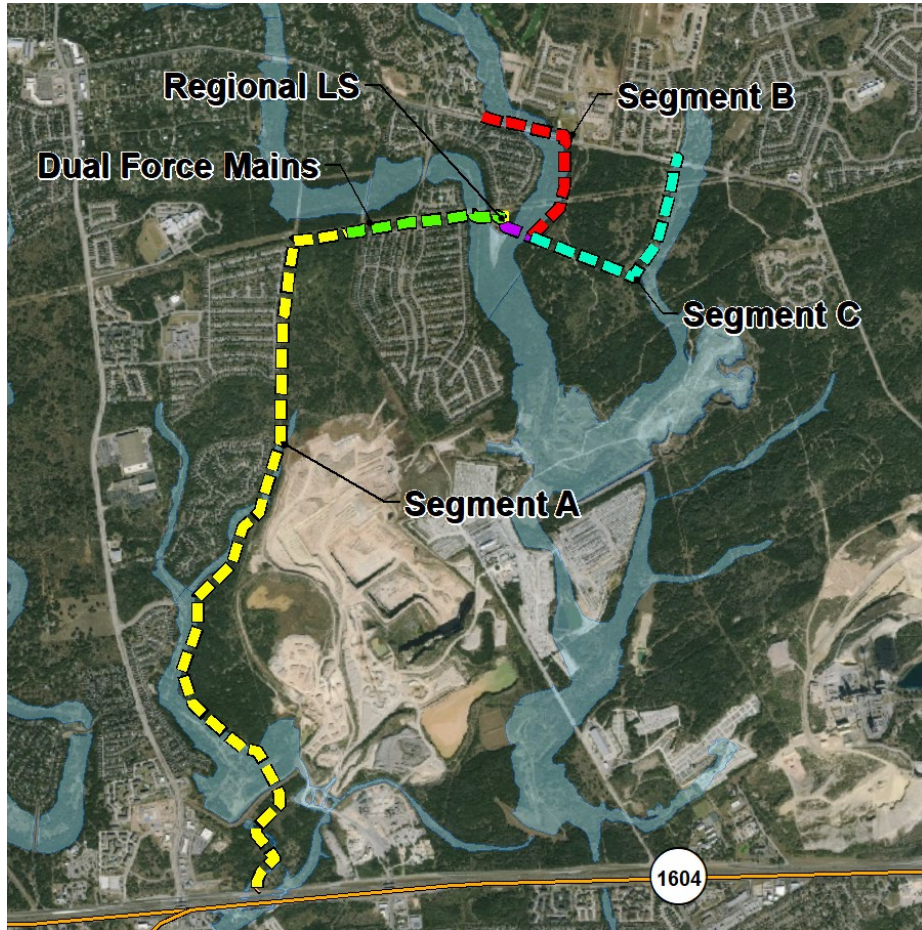
- Proposals are due no later than **2:00 PM CDT June 23, 2022**
- **Electronic Proposals Only**
- Follow specific electronic proposal delivery instructions:
 - Request the FTP Site for Upload no later than June 22, 2022, at 2:00 PM
 - Follow naming convention provided in the Respondent Proposal Checklist for all 3 files
 - Late responses will not be accepted and will be not be opened
 - A WebEx proposal opening meeting will be held June 23, 2022, at 2:00 PM

Contact Information

Contact Name	Title	Telephone Number	Email address
Roxanne Lockhart	Contract Administrator	210-233-3095	Roxanne.Lockhart@saws.org
Marisol V. Robles	SMWVB Program Manager	210-233-3420	Marisol.Robles@saws.org

Project Overview

E-54 Sanitary Sewer Project



- Eastern Sewershed, Evans Road to Loop 1604
 - Segment A
 - 16,233 LF of 30-inch FRP with Tee-base MH
 - 3,126 LF of 20-inch HDPE dual force mains (total 6,252 LF)
 - Segment B
 - 595 LF 24" PVC with FRP MH
 - 3,970 LF 21" PVC with FRP MH
 - Segment C
 - 4,879 LF 18" PVC with FRP MH
 - Including a 1,964 LF Tunnel

Project Overview

Key Special Conditions

All Special Conditions are key to this project and not all Special Conditions were included in this presentation. The Special Conditions shown as part of this presentation were to inform potential respondents of the importance of the presented Special Condition and may require a closer look.

SC1. GEOTECHNICAL DATA REPORT

Two separate Geotechnical Data Reports (GDRs) have been made available for this project.

SC1.1 As defined in the Supplemental Conditions, a Geotechnical Data Report has been developed for this project for Reaches 1 and 2.

Sc1.2 A second Geotechnical Data Report that provides geotechnical data for other areas of the project, not including Reaches 1 and 2, has been made available for Contractors for informational purposes only. SAWS will require the execution of a SAWS disclaimer form by the Contractor as a condition of and prior to the release of the report. To complete the disclaimer form and obtain the report, please go to the following link on SAWS website: http://www.saws.org/business_center/ContractSol/.

Find this project, select “More”, then “Geotechnical Data Report.”

Project Overview

Acknowledgement Form

ACKNOWLEDGEMENT FORM

The undersigned acknowledges the following:

- Reading and understanding the Geotechnical Data Report (GDR) for Reach 1 and Reach 2 and the Geotechnical Baseline Report (GBR) for Reach 1 and Reach 2. Furthermore, the undersigned understands that these reports are included as Contract Documents only for Reach 1 and Reach 2.
- Self-guided site visit information is available on the SAWS website (http://www.saws.org/business_center/ContractSol/) and should be used to visit the project site during the advertisement period.

Project Overview

Key Special Conditions

All Special Conditions are key to this project and not all Special Conditions were included in this presentation. The Special Conditions shown as part of this presentation were to inform potential respondents of the importance of the presented Special Condition and may require a closer look.

- SC.3 Migratory Bird Nests:

Clearing should be conducted by the Contractor outside of peak-nesting seasons (March-August) to avoid any adverse effects to the migratory birds and their habitat. Should construction and vegetation clearing occur from March through August, active bird nest surveys should be conducted by a biologist no more than 5 days prior to the planned construction.

- SC.4 CPS Energy Easement:

Contractor to maintain accessibility to and throughout the CPS Energy easement 24/7

No storage of materials vehicles, spoils, debris, etc. is allowed within the CPS Energy Easement

- SC.5 Additional Insureds:

D.R. Horton shall be added as an additional insured.

San Antonio River Authority (SARA) shall be added as an additional insured. SARA requires the Contractor to carry and maintain a minimum coverage of \$10 Million

Project Overview

Key Special Conditions

All Special Conditions are key to this project and not all Special Conditions were included in this presentation. The Special Conditions shown as part of this presentation were to inform potential respondents of the importance of the presented Special Condition and may require a closer look.

- SC.6 Project Coordination:

Portions of the project will require coordination with the E-54 Regional Lift Station project.

- SC.9 Threatened or Endangered Species

To mitigate impacts to karst invertebrates, the Contractor should adhere to the project specifications and should reference the project specification 01510 Karst Void Management.

- SC.10 Coordination with Adjacent Quarry Operations

Contractor Shall be required to coordinate with the adjacent quarry operations especially with regard to quarry blasting. The Contractor shall abide by the terms of any easements, to ensure that their activities do not impact quarry operation and to coordinate planned work adjacent to the quarry.

- SC.12 Construction in Flood Prone Areas:

The project is located throughout the catchment area for a SARA dam and is prone to inundation during rain events. All temporary construction shafts shall be protected from inundation due to flooding.

Project Overview

Special Conditions

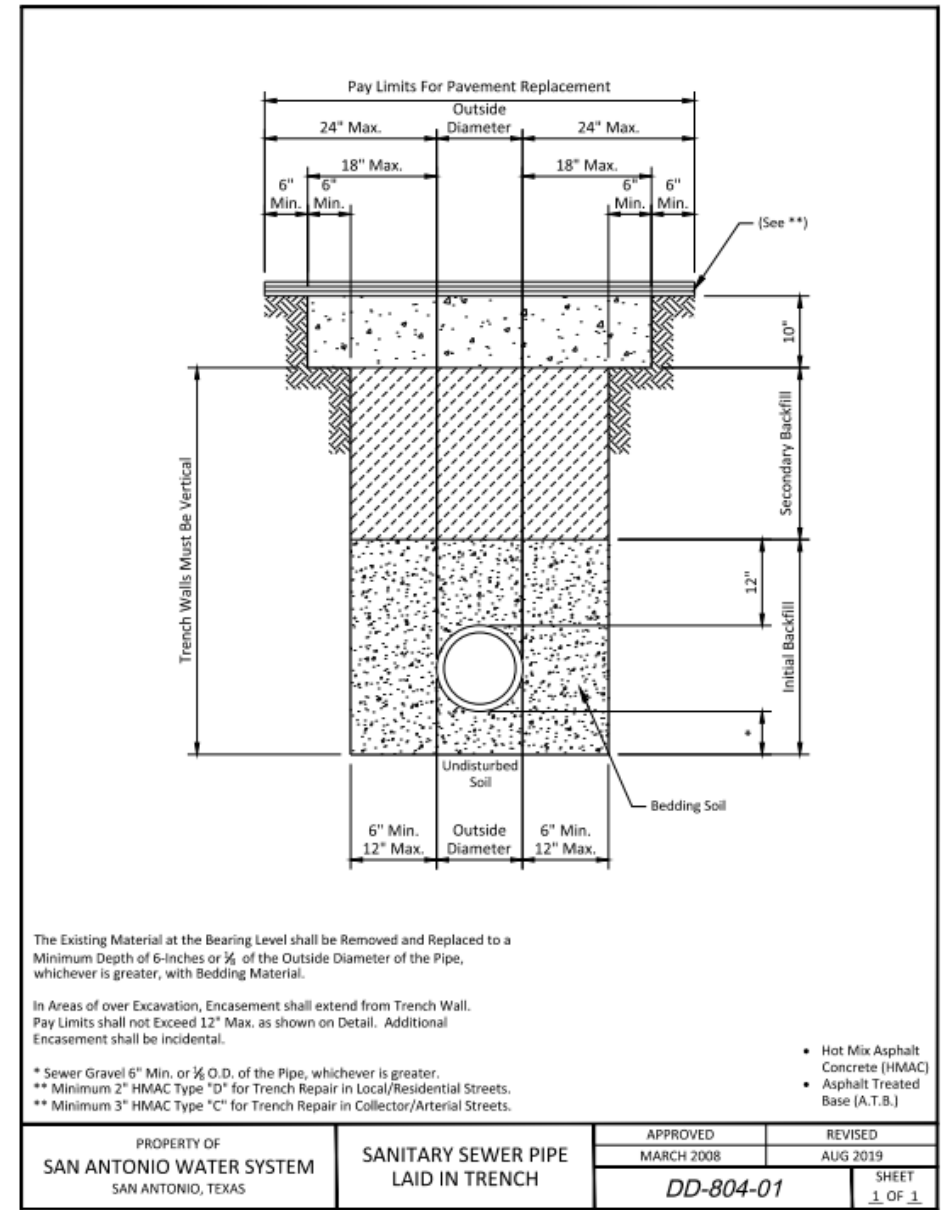
• SC.14 Bid Evaluation for Additional Trench Width:

• SC.14.B:

As part of the bid evaluation process the line items listed will be evaluated to determine the final selection of the trench width.

• SC.14.B:

Items under SC 14.B should reflect the Contractor’s cost to trench, install pipe, concrete encasement and flowable fill based solely on the SAWS standard trench width shown in SAWS Detail DD-804-01.

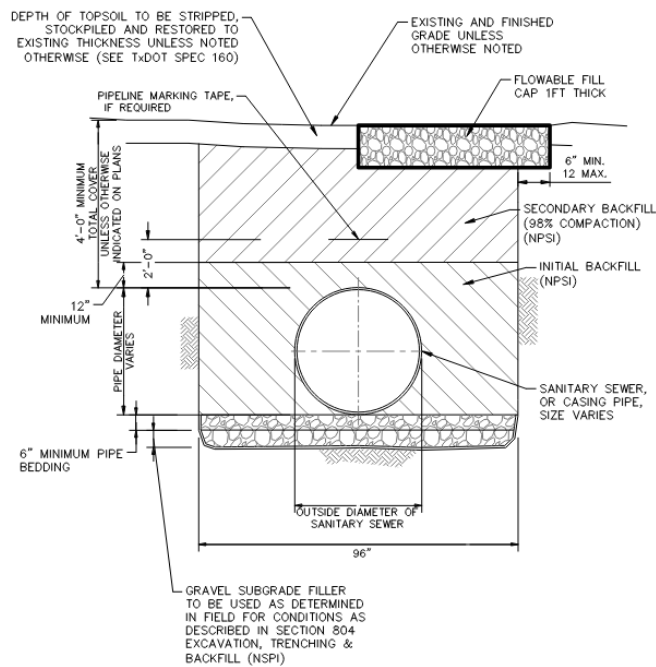


Project Overview

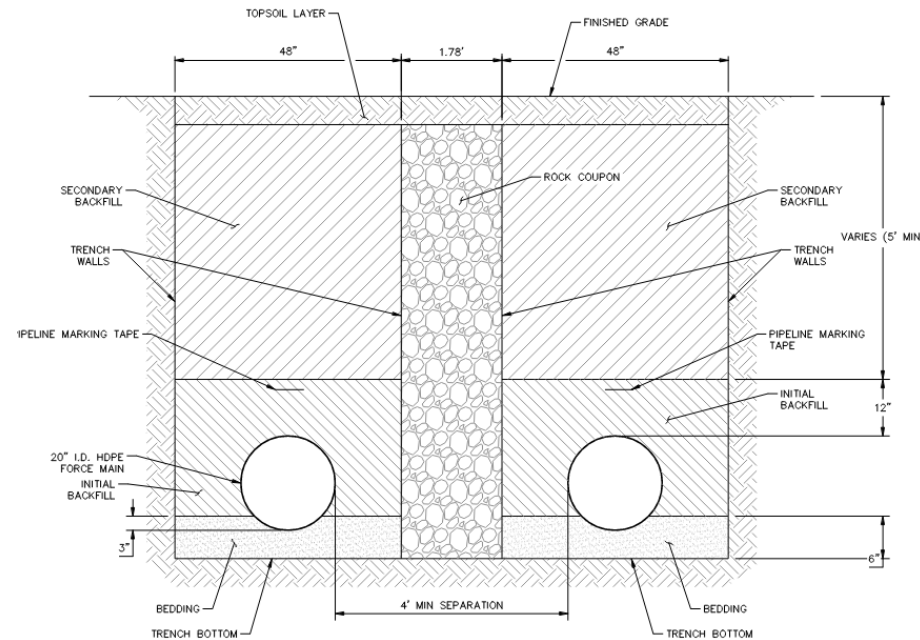
•SC.14.C

In addition to the line items described under SC14.B; the following line item should reflect the Contractor’s additional cost to trench, install pipe, concrete encasement, and flowable fill based on the non-standard trench width as shown on the plan details:

C5.00 A/F (Segment A)(Min. 96” width)

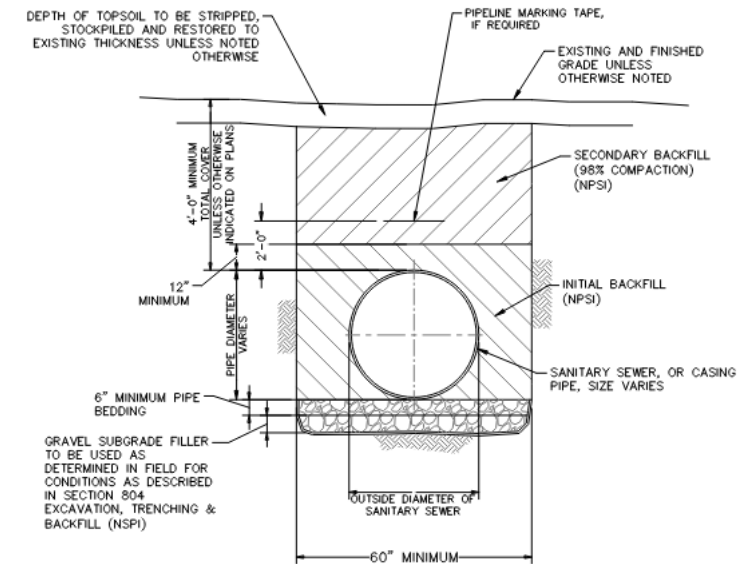


C5.01A/A (Dual Force Mains)(Min. 48” width)

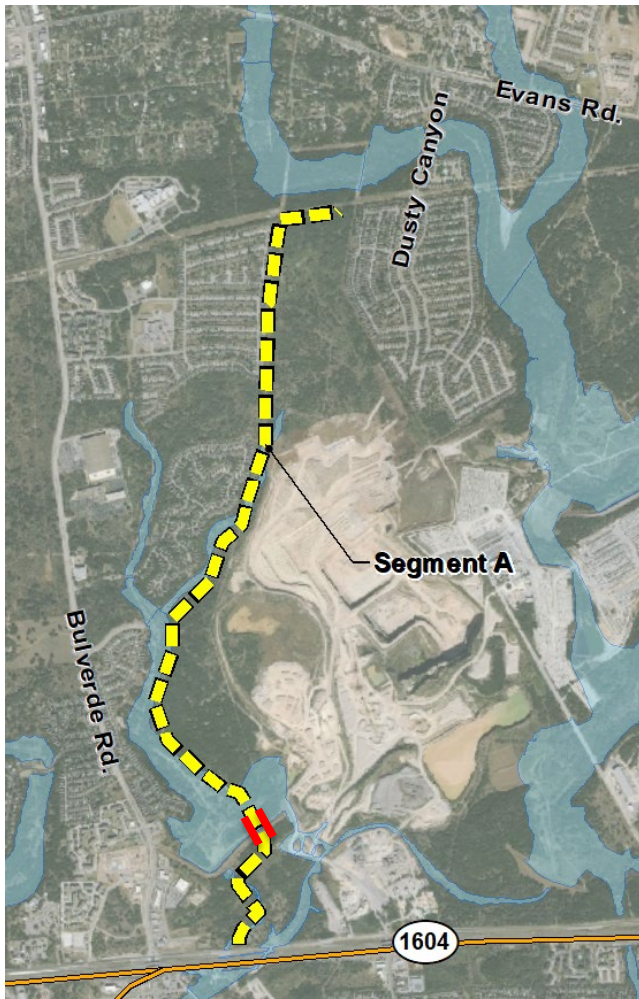


C4.00B/D (Segment B)(Min. 60” width)

C4.00C/D (Segment C)(Min. 60” width)

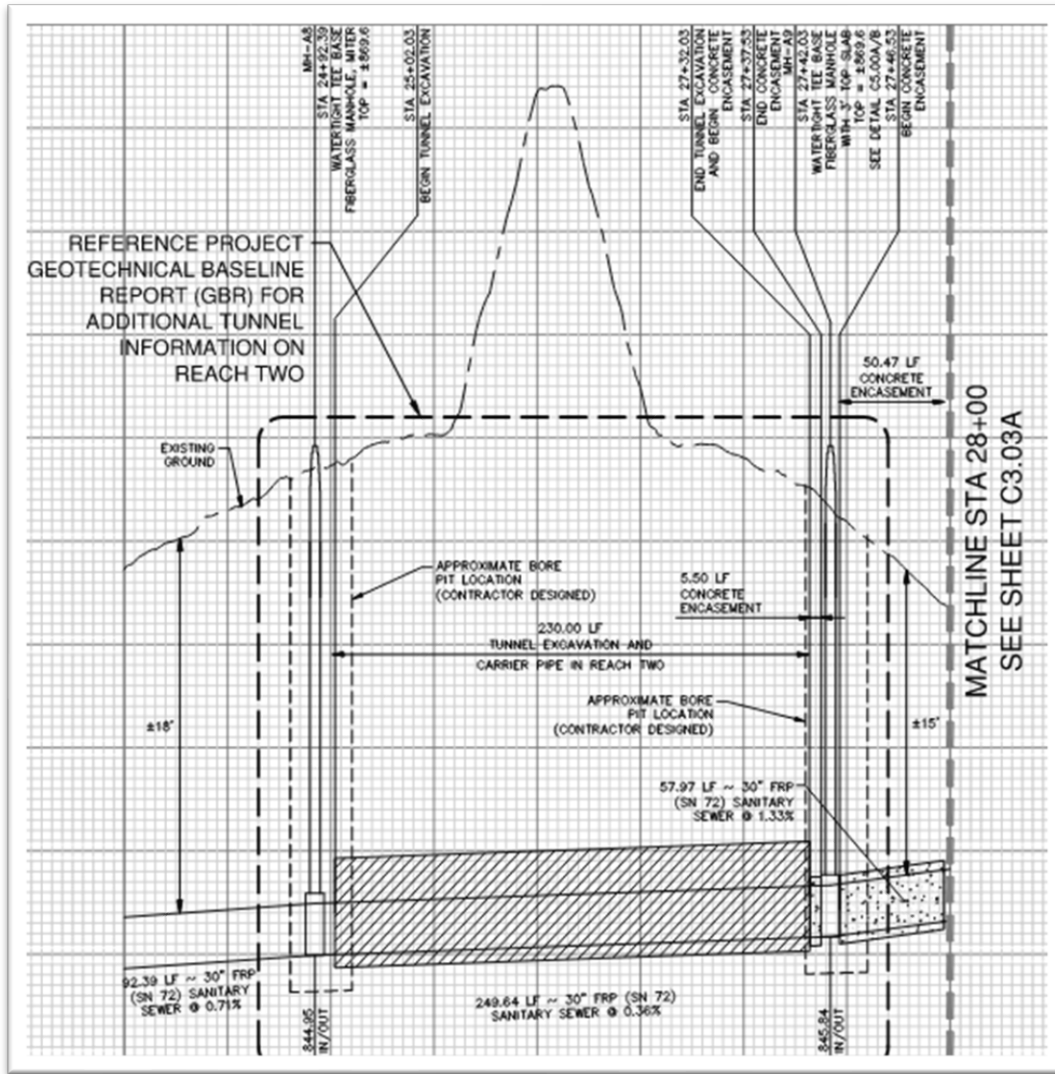


Segment A



- 16,233 LF of 30” FRP
 - 230 LF – Reach 2 tunnel (SARA Dam)
 - 121 LF of trenchless installation (Gold Canyon)
- 35 ea – Tee base manholes
 - Including 2 ea 30” Drop MH’s
- Easements:
 - 30’ Permanent & 20’ Temporary
 - 40’ Permanent & 10’ Temporary (Poerner Enterprises LTD)
- Downstream connection SAWS E-4 project
- Upstream connection to the Dual 20” Force Main

SARA Dam Crossing – Reach 2 Tunnel



- 230 LF tunnel under Sara Dam
 - STA 25+02 to STA 27+32
 - 72-in diameter primary liner
 - 30-in carrier pipe
 - Annular grout

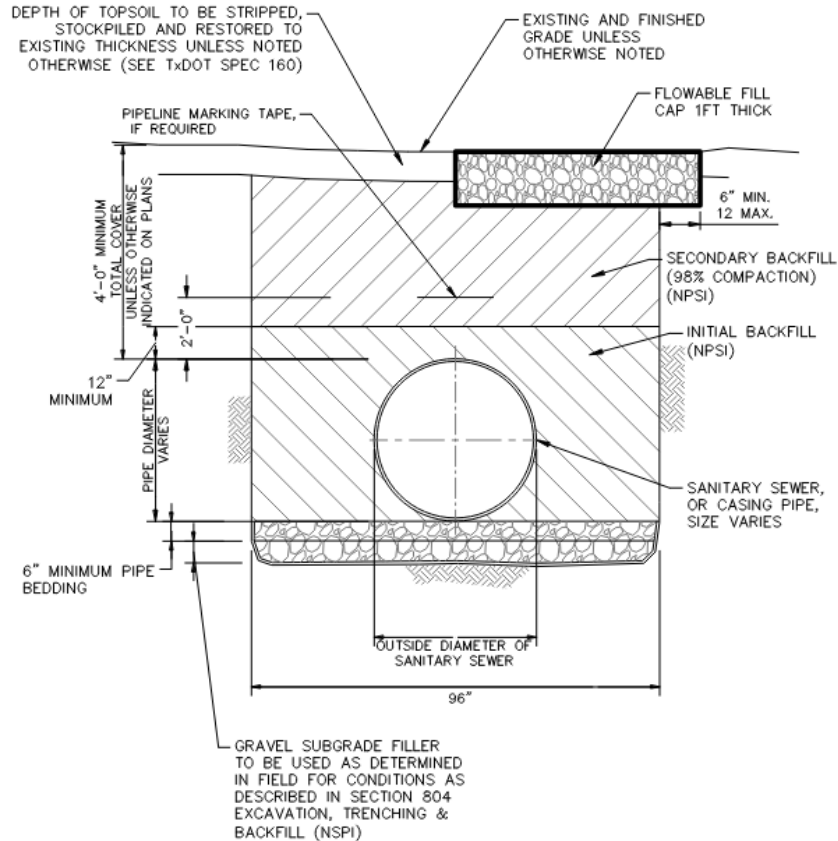
Trench Details

Segment A

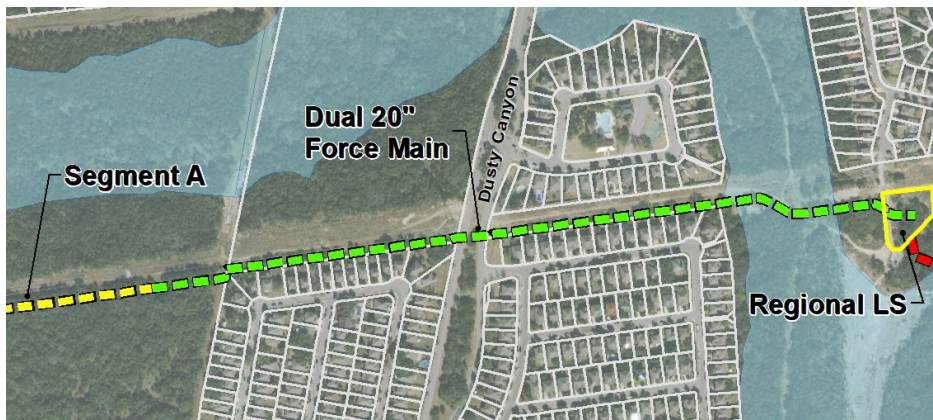
- 30" FRP - Segment A

- Minimum 96" width

- Average depth 15-ft and up to 25-ft

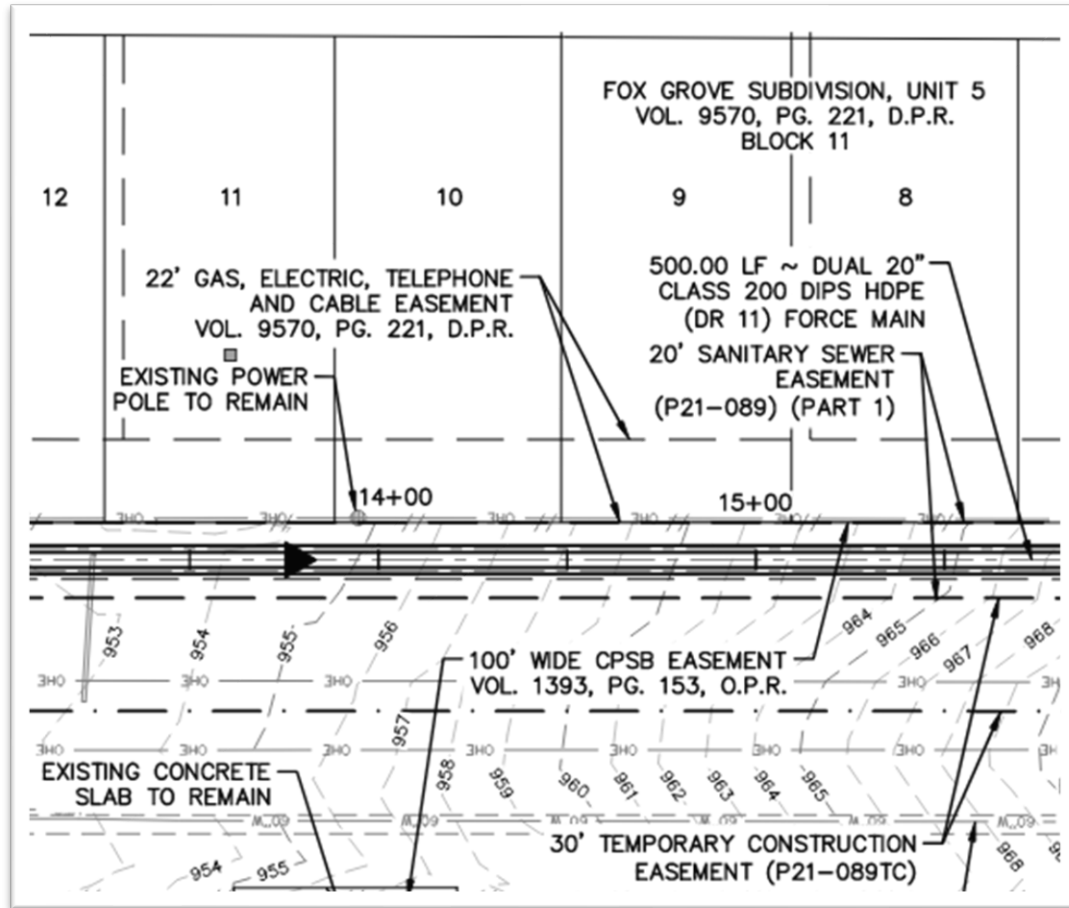


20" Dual HDPE Force Main



- 6,268 LF 20" HDPE Force Main (3,126 LF ea)
 - 505 LF trenchless installation
- Easement:
 - 20' Permanent
 - 30' Temporary
- Connection nr the Regional LS
- Discharge to proposed MH-FMI

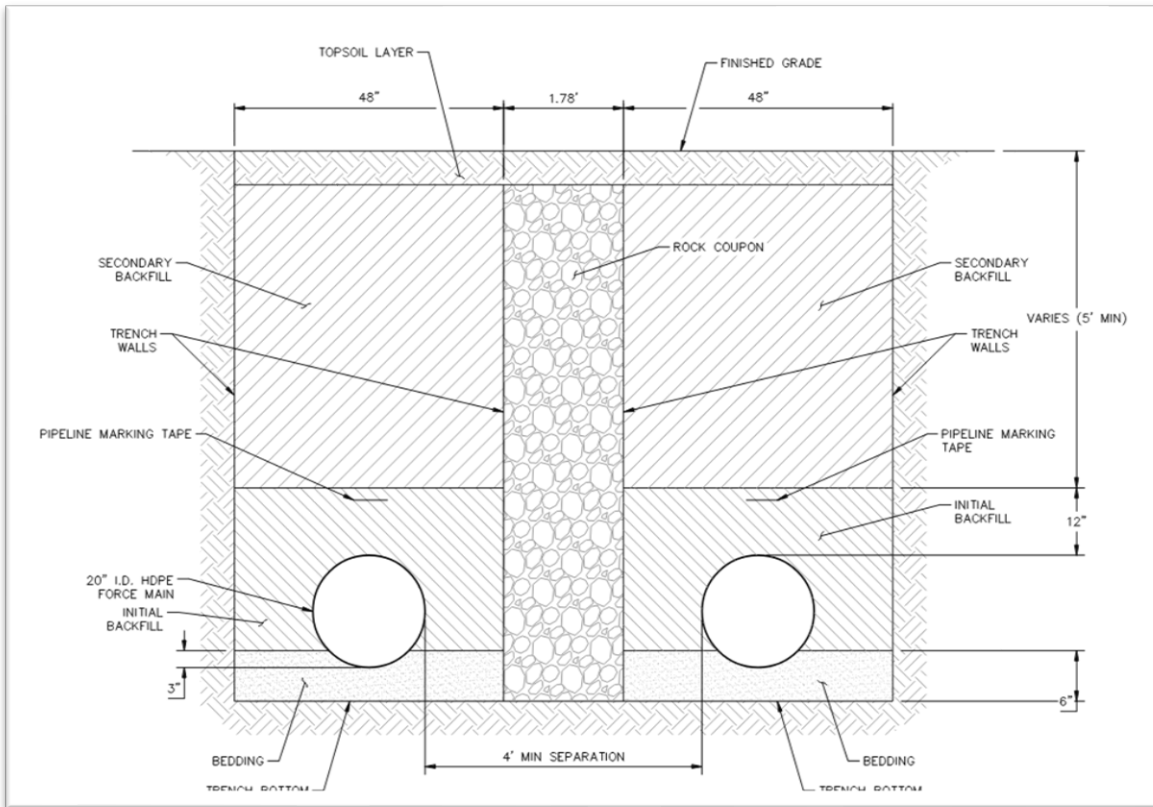
Dual Force Main



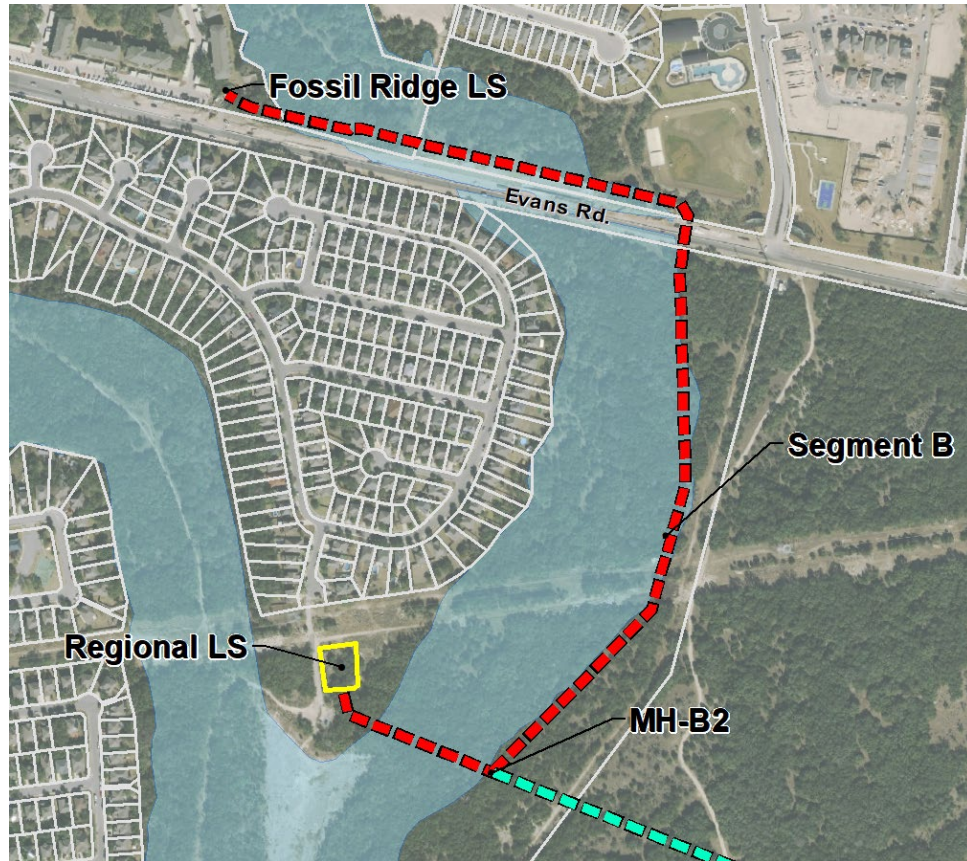
Trench Details

Dual Force Main

- 20” HDPE – Dual FM
 - Minimum 48” width
 - Average depth 10-ft and up to 22-ft



Segment B - Fossil Ridge Gravity Main

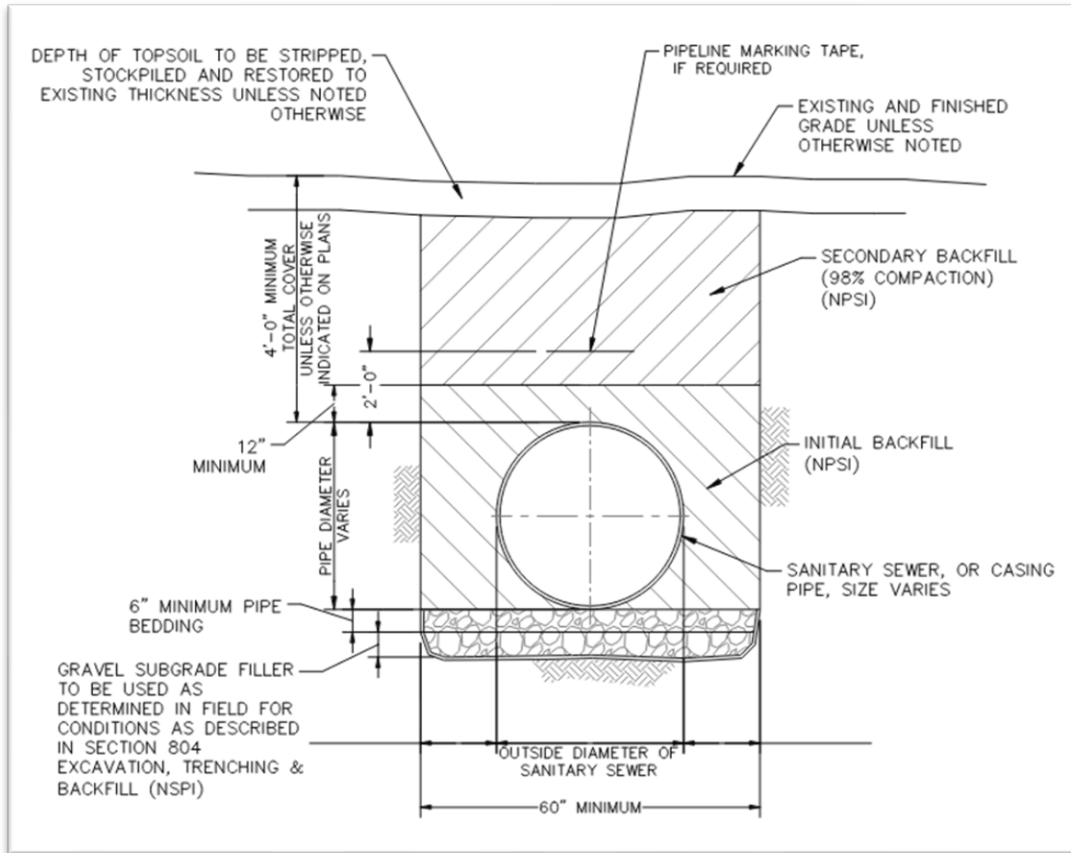


- 595 LF 24" PVC Sanitary Sewer Main
- 3,970 LF 21" PVC Sanitary Sewer Main
 - 222 LF trenchless installation
- 14 ea fiberglass MHs
- Easements:
 - 30' Permanent & 20' Temporary
- Intercepts Segment C at MH-B2
- Downstream connection near E-54 Regional LS
- Upstream connection near Fossil Ridge LS

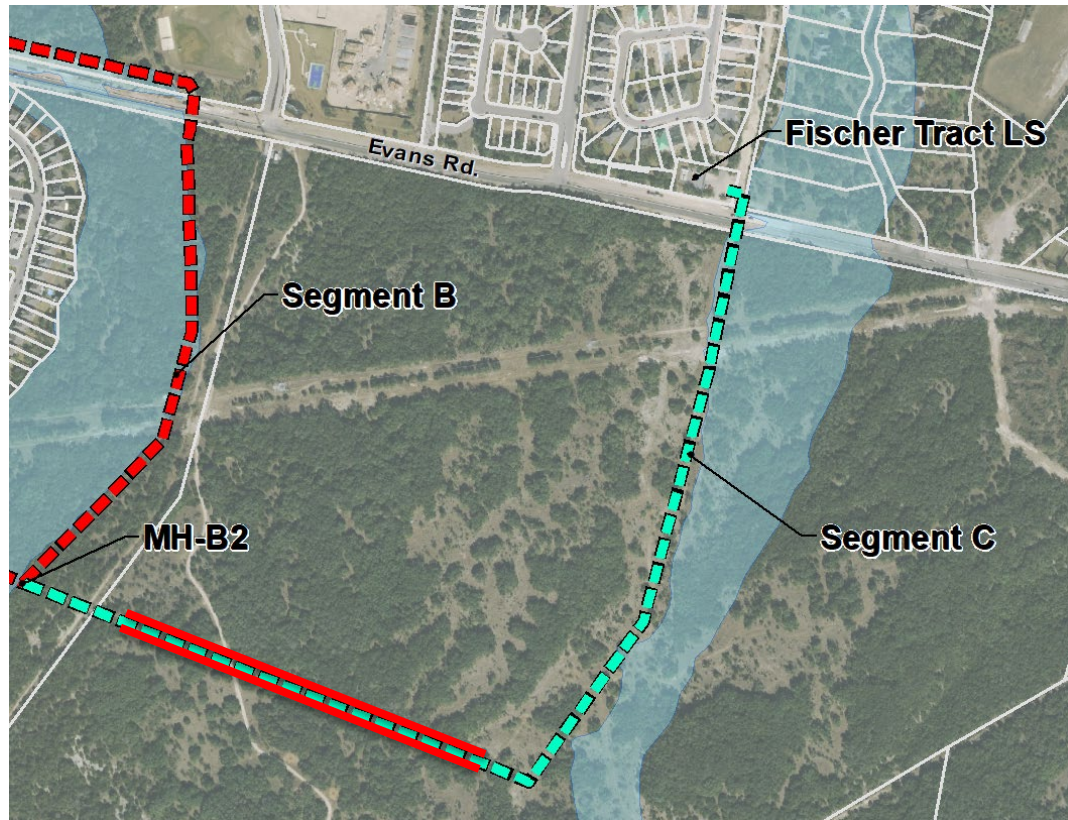
Trench Details

Segment B

- 21", & 24" PVC Seg. B
- Minimum 60" width
 - Average depth 12-ft and up to 24-ft

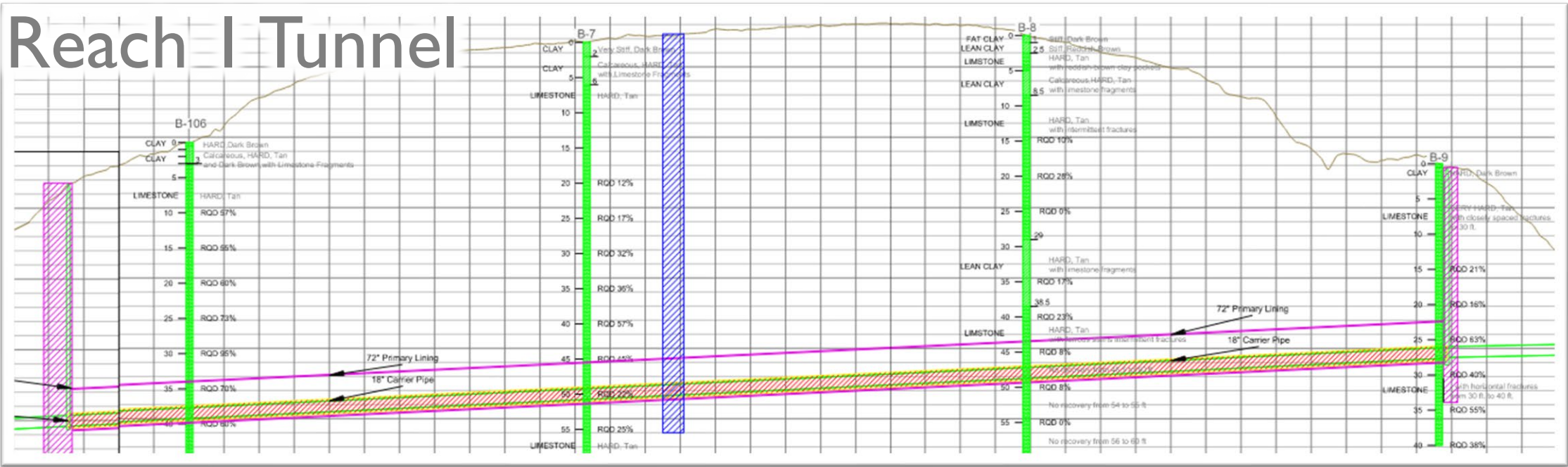


Segment C - Fischer Tract Gravity Main



- 4,019 LF 18" PVC Sanitary Sewer Main
 - 1,964 LF Tunnel – Reach I
 - 205 LF trenchless installation
- 9 ea fiberglass MHs
- Easement:
 - 30' Permanent & 20' Temporary
- Downstream connection to Seg. B
- Upstream connection near Fischer LS

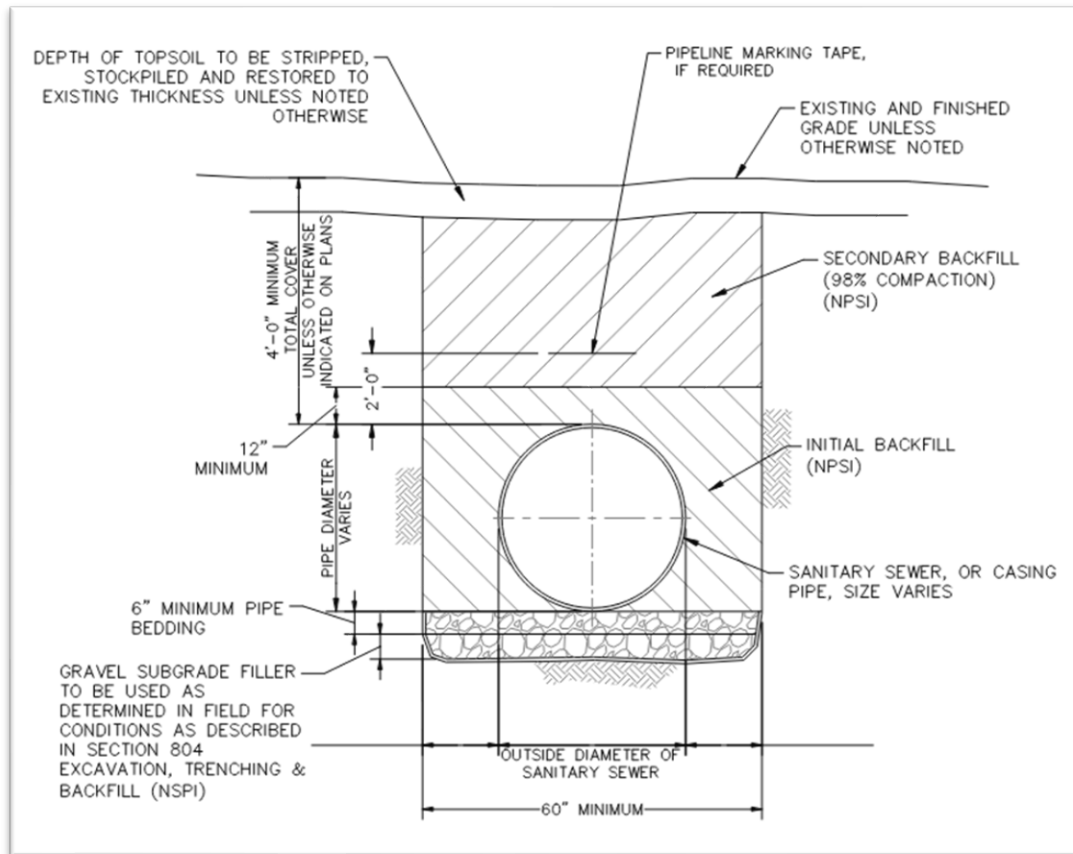
Reach I Tunnel



- 1,964 LF tunnel
 - STA 9+28 to STA 28+93
 - 72-in diameter primary liner
 - 18-in carrier pipe
 - Annular grout
- Intermediate shaft if warranted (not required) near STA 19+30

Trench Details

Segment C



- 18" Seg. C
 - Minimum 60" width
 - Average depth 17-ft and up to 35-ft

QUESTIONS?

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

E-54 Sewer Main Project

Gerardo Gomez, P.E.

Senior Project Engineer, Sewer & Water Pipeline

Roxanne Lockhart

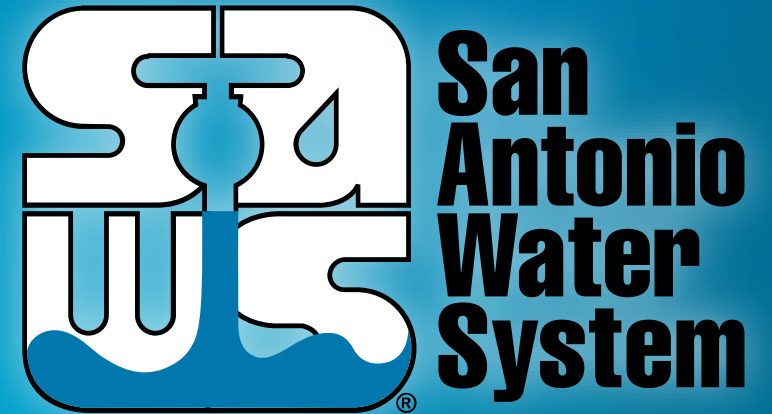
Contract Administrator

Tracy M. Burns

SMWVB Specialist

Marshall Preas, P.E.

Sr. Project Manager, Pape-Dawson Engineers



Non-Mandatory Pre-Proposal Meeting

May 26, 2022

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WATERFUL 