



SAN ANTONIO WATER SYSTEM
San Antonio River Outfall (SARO) Pipeline – Project 2A
Solicitation Number: CO-00070-SM
Job No.: 14-4508

ADDENDUM NO. 1
September 1, 2016

TO BIDDER OF RECORD:

The following changes, additions, and/or deletions are hereby made a part of the Contract Documents for the construction of the San Antonio River Outfall Pipeline - Project No. 2A, for the San Antonio Water System, San Antonio, Texas, dated August 2016, as fully and completely as if the same were set forth therein.

PART 1 - BIDDING AND CONTRACT DOCUMENTS

NONE.

PART 2 - TECHNICAL SPECIFICATIONS

NONE.

PART 3 – DRAWINGS

1. SHEET PL-1 – STA. 105+30.74 TO STA. 126+00:

REPLACE this sheet in its entirety with the attached sheet.

2. SHEET PL-2 – STA. 126+00 TO STA. 145+23.17:

REPLACE this sheet in its entirety with the attached sheet.

3. SHEET BP-2 – BOBBIE ALLEN WAY:

REPLACE this sheet in its entirety with the attached sheet.

ALL BIDDERS SHALL ACKNOWLEDGE RECEIPT OF ADDENDUM NO. 1 IN THE BID FORM AND BY HIS/HER SIGNATURE AFFIXED HERETO AND TO FILE SAME AS AN ATTACHMENT TO HIS/HER BID. BID FORMS SUBMITTED WITHOUT THIS ACKNOWLEDGEMENT WILL BE CONSIDERED INFORMAL.





09/01/2016

Erika B. Anderson, P.E.

Freese and Nichols, Inc.

FREESE AND NICHOLS, INC.
TEXAS REGISTERED
ENGINEERING FIRM
F-2144

ACKNOWLEDGEMENT BY BIDDER

THE UNDERSIGNED ACKNOWLEDGES RECEIPT OF THIS ADDENDUM NO. 1 AND THE BID SUBMITTED HERewith IS IN ACCORDANCE WITH THE INFORMATION AND STIPULATION SET FORTH.

Date _____ Signature of bidder _____

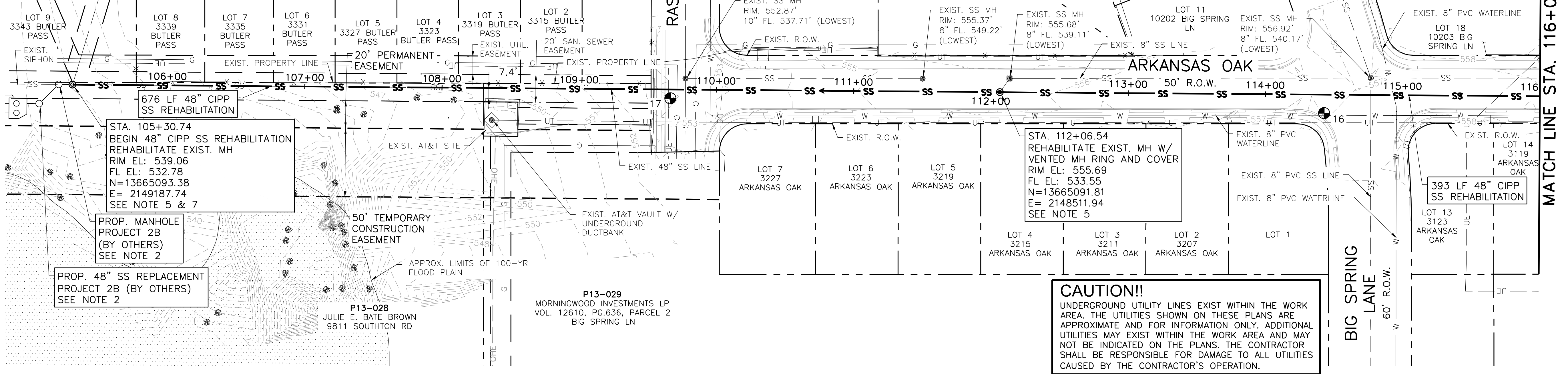
Appended hereto and part of Addendum No. 1 are:

1. PLANS (Revised Sheets)
 - a. SHEET PL-1
 - b. SHEET PL-2
 - c. SHEET BP-2
2. Contractor Questions and Answers

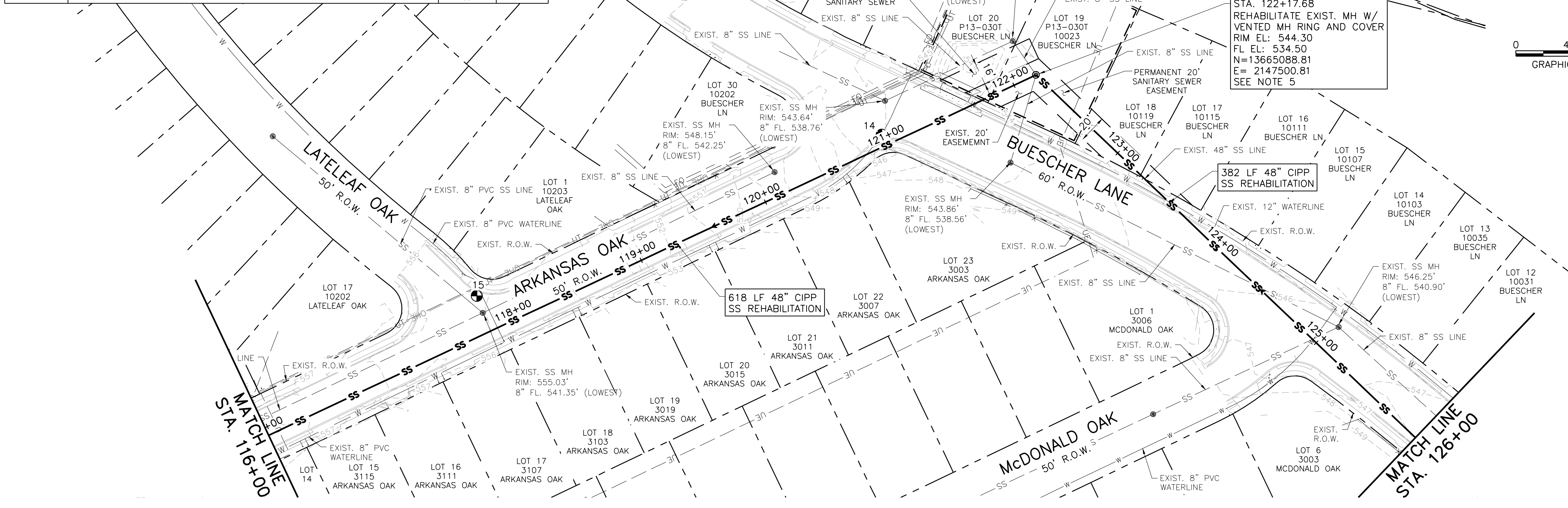
END OF ADDENDUM NO. 1

NOTES:

1. BYPASS PUMPING SHALL BE IN ACCORDANCE WITH SECTION 864.
2. CONTRACTOR SHALL COORDINATE ALL WORK AT STARTING AND ENDING CONNECTION POINTS WITH PROJECT 2B CONTRACTOR IN ACCORDANCE WITH SECTION 01030.
3. CONTRACTOR SHALL PREVENT WRINKLING OF CIPP LINER IN ACCORDANCE WITH SECTIONS 901 & 905.
4. CONTRACTOR SHALL FIELD VERIFY AND INTERNALLY RECONNECT ALL EXISTING SS SERVICES.
5. CONTRACTOR SHALL ACCOUNT FOR ALL SS LINES THAT TIE-IN TO EXIST. 48" SS AND INCLUDE IN BYPASS PUMPING PLAN. CONTRACTOR SHALL FIELD VERIFY PRIOR TO SUBMITTING BY-PASS PUMPING PLAN FOR APPROVAL.
6. APPROXIMATELY TWO TYPE "C" MANHOLES IN ACCORDANCE WITH SAWS ITEM NO. 850 AND DETAIL DD-850-01 MAY BE REQUIRED FOR INSTALLATION OF CIPP ON THIS PLAN SHEET. LOCATION OF MANHOLES SHALL BE DETERMINED BY CONTRACTOR.
7. CONTRACTOR MAY NEED TO INSTALL TEMPORARY DOGHOUSE-STYLE MANHOLE IN ACCORDANCE WITH SECTION 01030.
8. IF SERVICE LATERALS CANNOT BE RECONNECTED INTERNALLY, CONTRACTOR SHALL INSTALL NEW 4" SERVICE LATERAL AND CONNECTIONS BY OPEN-CUT.



ITEM NO	DESCRIPTION	QUANTITY	UNIT
866	48" SEWER MAIN TELEVISION INSPECTION (POST CIPP)	2069	LF
901	48" RECONSTRUCTION OF SANITARY SEWER BY CIPP (ALL DEPTHS)	2069	LF
910	MANHOLE REHABILITATION (ALL MH SIZES)	39	VF



App. EBA
Revisions
Date 09/01/16
No. 1
ADDENDUM NO. 1

Freese And Nichols, Inc.
Job No. SWB11467
Texas Registered Engineering Firm F-2144
ERIK B. ANDERSON
100966
PROFESSIONAL ENGINEER
09/01/2016

Date: 9/1/2016
Designed by: DIB
Drawn by: DDH
Checked by: BCI
Scale: AS NOTED

FREES AND NICHOLS
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SAN ANTONIO WATER SYSTEM

SAWS JOB NO. 14-4508 (SS)
SAN ANTONIO RIVER OUTFALL PIPELINE,
PROJECT NO. 2A
PLAN VIEW
STA. 105+30.74 TO STA. 126+00

Sheet PL1

SWB11467 / San Antonio Server / ACAD CIVIL 3D_2014

Freese And Nichols, Inc.
Job No. SWB11467

Revisions: 09/01/16 ADDENDUM NO. 1

Date: 09/01/16

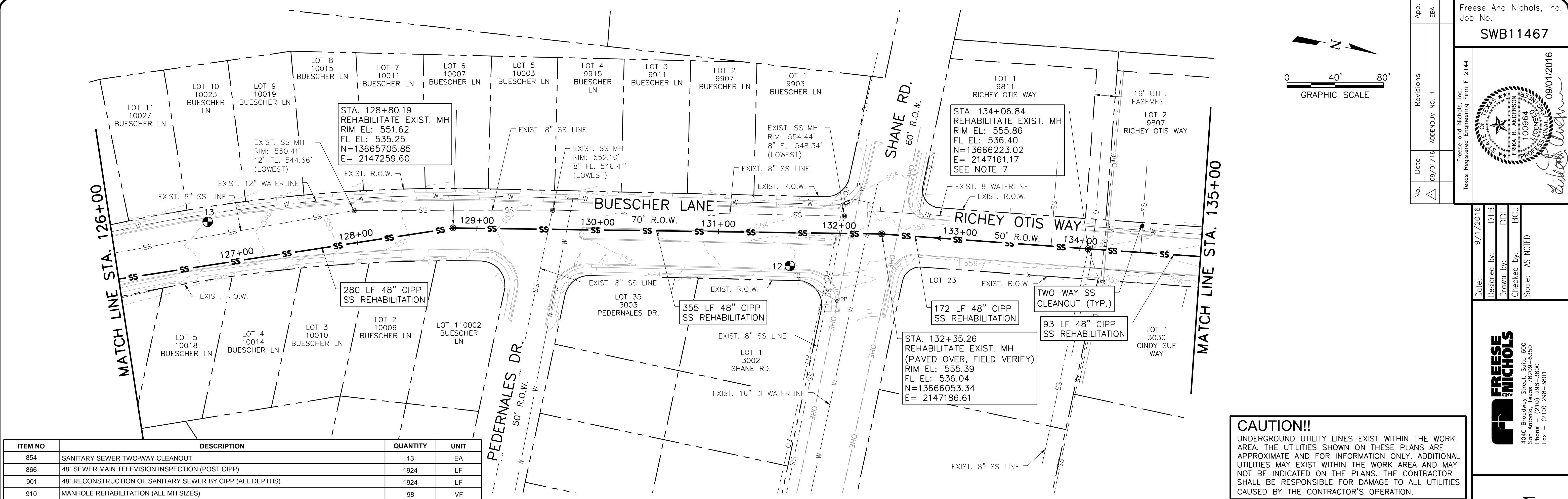
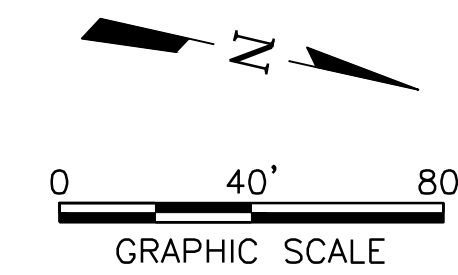
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9/01/2016

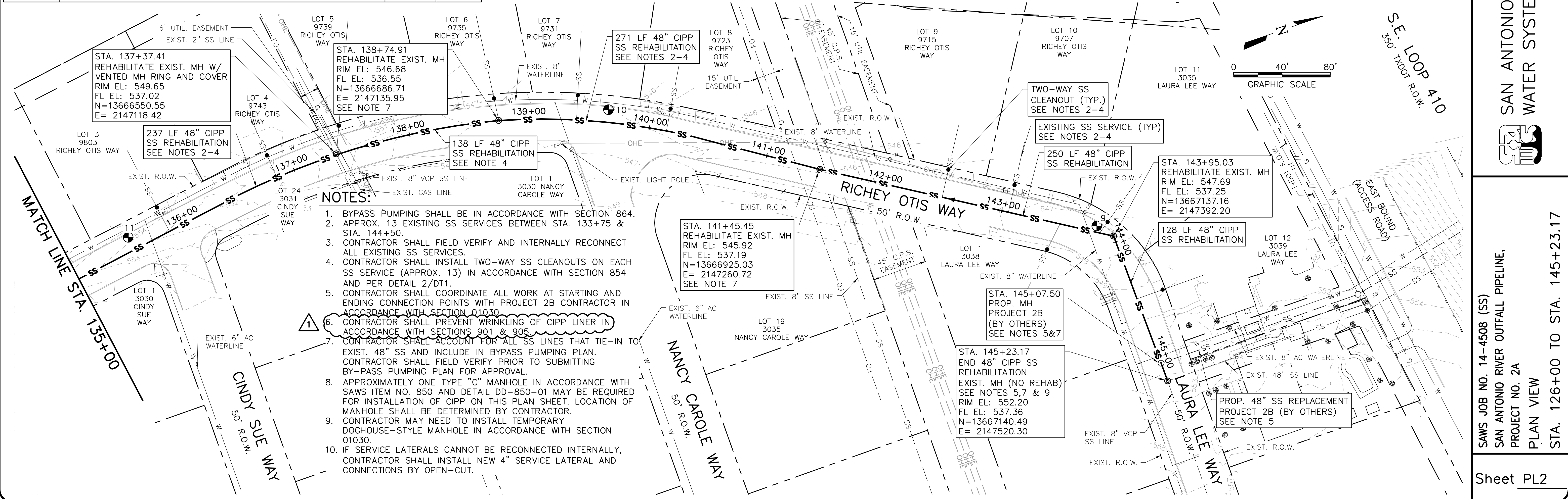
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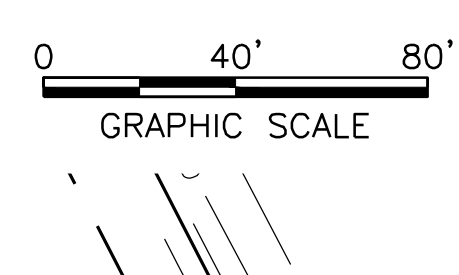


ITEM NO	DESCRIPTION	QUANTITY	UNIT
854	SANITARY SEWER TWO-WAY CLEANOUT	13	EA
866	48" SEWER MAIN TELEVISION INSPECTION (POST CIPP)	1924	LF
901	48" RECONSTRUCTION OF SANITARY SEWER BY CIPP (ALL DEPTHS)	1924	LF
910	MANHOLE REHABILITATION (ALL MH SIZES)	98	VF
1109	SANITARY SERVICE LATERAL RECONNECTIONS (BY REMOTE OR PERSON ENTRY, ALL DEPTHS)	13	EA

CAUTION!!
UNDERGROUND UTILITY LINES EXIST WITHIN THE WORK AREA. THE UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND FOR INFORMATION ONLY. ADDITIONAL UTILITIES MAY EXIST WITHIN THE WORK AREA AND MAY NOT BE INDICATED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL UTILITIES CAUSED BY THE CONTRACTOR'S OPERATION.



- NOTES:**
1. BYPASS PUMPING SHALL BE IN ACCORDANCE WITH SECTION 864.
 2. APPROX. 13 EXISTING SS SERVICES BETWEEN STA. 133+75 & STA. 144+50.
 3. CONTRACTOR SHALL FIELD VERIFY AND INTERNALLY RECONNECT ALL EXISTING SS SERVICES.
 4. CONTRACTOR SHALL INSTALL TWO-WAY SS CLEANOUTS ON EACH SS SERVICE (APPROX. 13) IN ACCORDANCE WITH SECTION 854 AND PER DETAIL 2/DT1.
 5. CONTRACTOR SHALL COORDINATE ALL WORK AT STARTING AND ENDING CONNECTION POINTS WITH PROJECT 2B CONTRACTOR IN ACCORDANCE WITH SECTION 01030.
 6. CONTRACTOR SHALL PREVENT WRINKLING OF CIPP LINER IN ACCORDANCE WITH SECTIONS 901 & 905.
 7. CONTRACTOR SHALL ACCOUNT FOR ALL SS LINES THAT TIE-IN TO EXIST. 48" SS AND INCLUDE IN BYPASS PUMPING PLAN. CONTRACTOR SHALL FIELD VERIFY PRIOR TO SUBMITTING BY-PASS PUMPING PLAN FOR APPROVAL.
 8. APPROXIMATELY ONE TYPE "C" MANHOLE IN ACCORDANCE WITH SAWS ITEM NO. 850 AND DETAIL DD-850-01 MAY BE REQUIRED FOR INSTALLATION OF CIPP ON THIS PLAN SHEET. LOCATION OF MANHOLE SHALL BE DETERMINED BY CONTRACTOR.
 9. CONTRACTOR MAY NEED TO INSTALL TEMPORARY DOGHOUSE-STYLE MANHOLE IN ACCORDANCE WITH SECTION 01030.
 10. IF SERVICE LATERALS CANNOT BE RECONNECTED INTERNALLY, CONTRACTOR SHALL INSTALL NEW 4" SERVICE LATERAL AND CONNECTIONS BY OPEN-CUT.



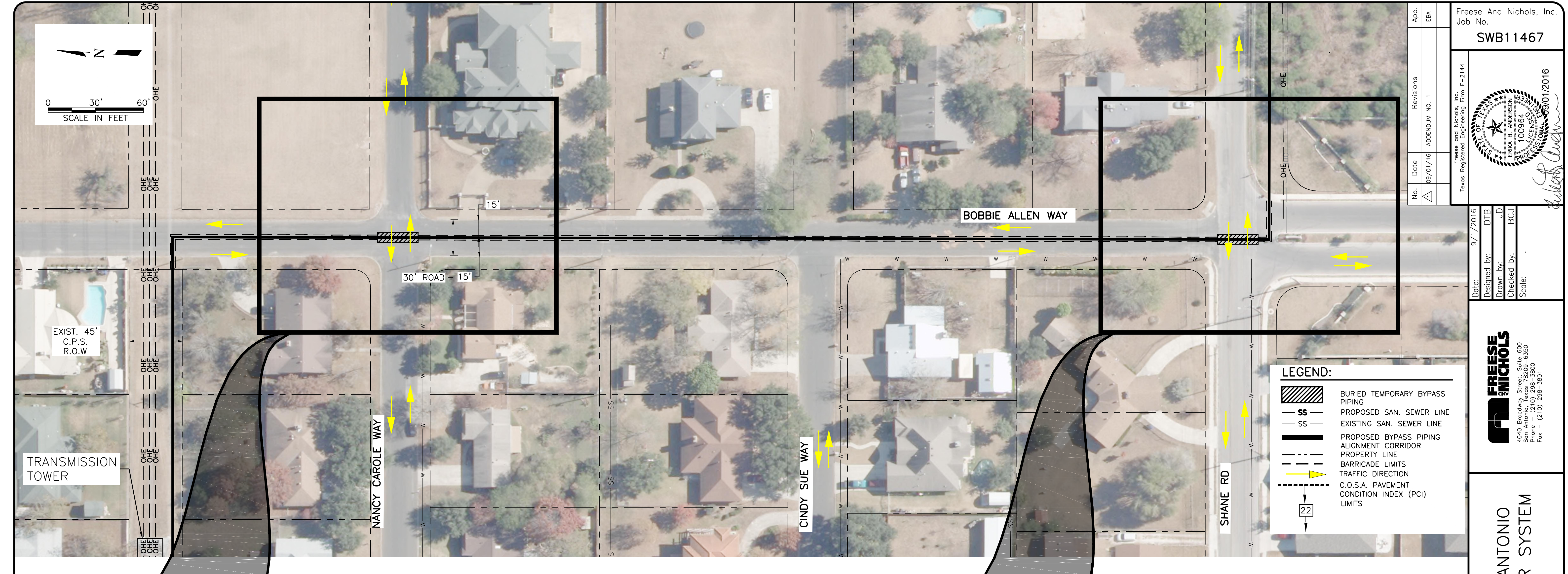
SWB11467 / San Antonio Server / ACAD CIVIL 3D 2014

Date: 9/1/2016
Designed by: DIB
Drawn by: DDH
Checked by: BCI
Scale: AS NOTED

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SAN ANTONIO WATER SYSTEM

SAWS JOB NO. 14-4508 (SS)
SAN ANTONIO RIVER OUTFALL PIPELINE,
PROJECT NO. 2A
PLAN VIEW
STA. 126+00 TO STA. 145+23.17



App.	EA
Revisions	
Date	09/01/16
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Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144

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ERIK B. ANDERSON
100966
PROFESSIONAL ENGINEER
EXPIRES 09/01/2016

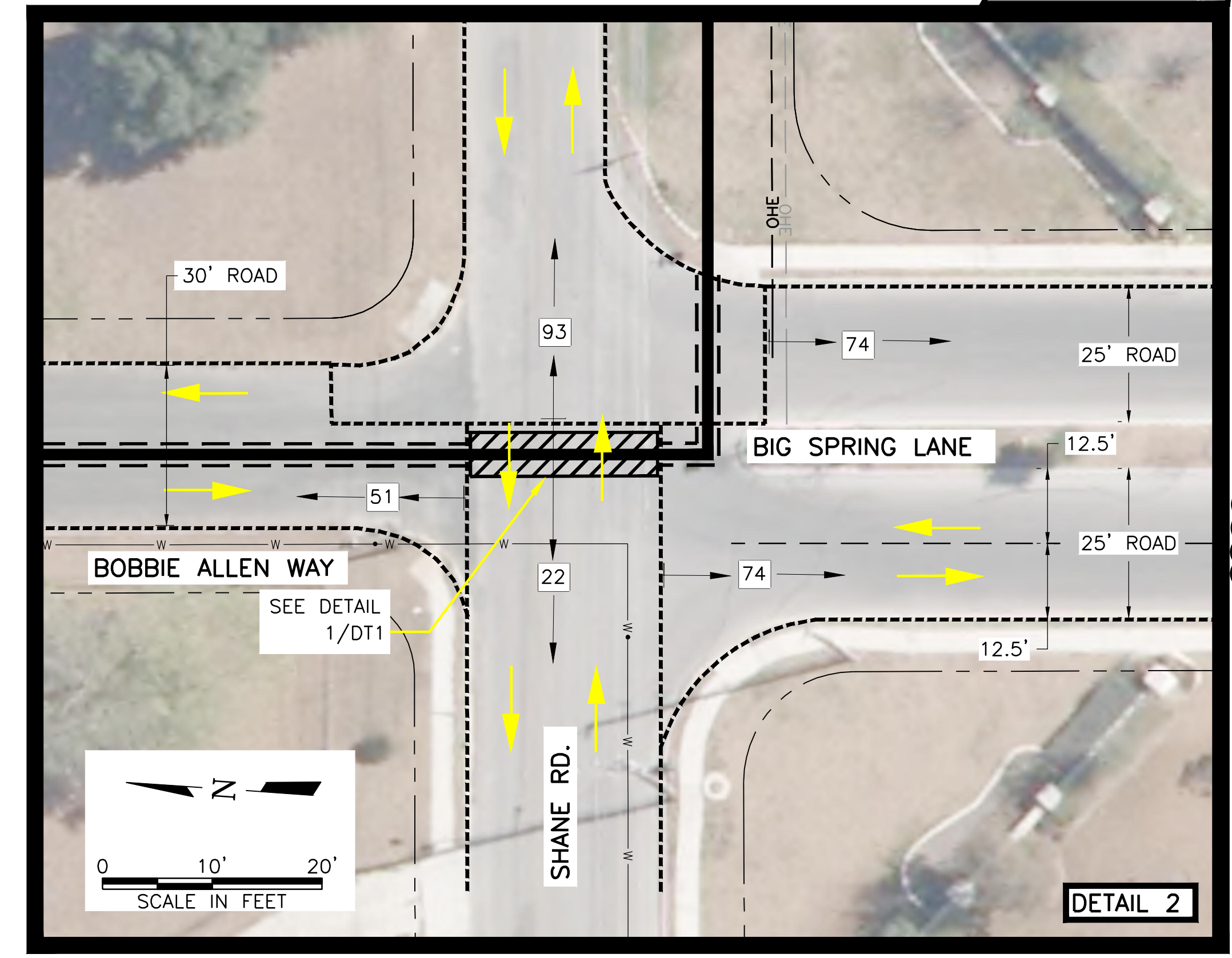
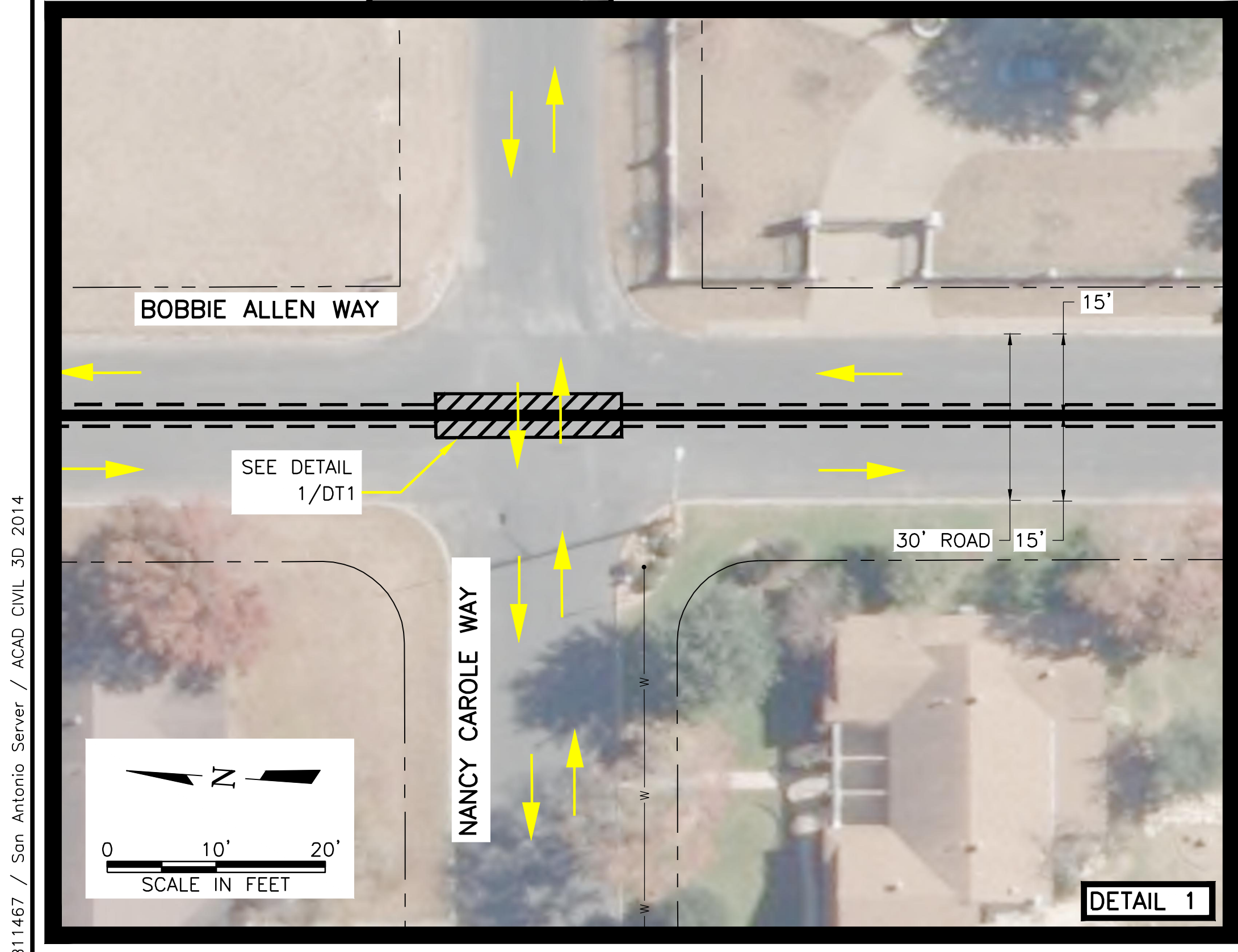
Date:	9/11/2016
Designed by:	DIB
Drawn by:	JD
Checked by:	BCJ
Scale:	

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SAN ANTONIO WATER SYSTEM

LEGEND:

	BURIED TEMPORARY BYPASS PIPING
	PROPOSED SAN. SEWER LINE
	EXISTING SAN. SEWER LINE
	PROPOSED BYPASS PIPING ALIGNMENT CORRIDOR
	PROPERTY LINE
	BARRICADE LIMITS
	TRAFFIC DIRECTION
	C.O.S.A. PAVEMENT CONDITION INDEX (PCI) LIMITS



- NOTES:**
- CONTRACTOR SHALL REFER TO SPECIAL CONDITIONS SC5, SECTION 01030, SAWS STANDARD SPECIFICATION ITEM NO. 864, AND SS864 FOR ALL BY-PASS PUMPING REQUIREMENTS.
 - CONTRACTOR SHALL ACCOUNT FOR ALL SS LINES AND SERVICES THAT TIE-IN TO EXIST. 48" SS AND INCLUDE IN BYPASS PUMPING PLAN. CONTRACTOR SHALL FIELD VERIFY PRIOR TO SUBMITTING BY-PASS PUMPING PLAN FOR APPROVAL.
 - THE FOLLOWING COSA PAVEMENT CONDITION INDEXES (PCIs) SHALL APPLY (SEE DETAIL 2/BP-2 FOR ADDITIONAL INFORMATION):
 - SHANE RD BETWEEN BOBBIE ALLEN WAY AND RICHEY OTIS WAY: PCI = 51-85
 - RICHEY OTIS WAY BETWEEN SHANE RD AND LAURA LEE WAY: PCI = 51-85
 - LAURA LEE WAY BETWEEN RICHEY OTIS WAY AND BOBBIE ALLEN WAY: PCI = 51-85
 - BOBBIE ALLEN WAY BETWEEN LAURA LEE WAY AND SHANE RD: PCI = 51-85
 - CINDY SUE WAY BETWEEN RICHEY OTIS WAY AND BOBBIE ALLEN WAY: PCI = 51-85
 - NANCY CAROLE WAY BETWEEN RICHEY OTIS AWY AND BOBBIE ALLEN WAY: PCI= 51-85
 - BEXAR COUNTY ROADS DO NOT HAVE PCIs ASSOCIATED WITH THEM.

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SAWS JOB NO. 14-4508 (SS)
SAN ANTONIO RIVER OUTFALL PIPELINE,
PROJECT NO. 2A
BYPASS PIPING PLAN
BOBBIE ALLEN WAY



San Antonio River Outfall (SARO) Pipeline - Project 2A
Solicitation Number: CO-00070-SM
Job No.: 14-4508

ADDENDUM 1
September 1, 2016

To Bidder of Record:

This addendum, applicable to work referenced above, is an amendment to the bid proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided in submitted copies of the bid proposal.

RESPONSES TO QUESTIONS

- 1. Does this project request any Union Labor requirements? If this is never required please let me know and I will make a note of this.**
No, SAWS does not require union labor requirements. However, it is subject to prevailing wage rate and labor standard provisions, per Section 2.10 of the General Conditions. Please reference the wage decision within the specifications for specific wages for this project.
- 2. What is the start or end date for the construction?**
For the purpose of preparing the initial schedule to be submitted with the bid, Bidders should utilize the Notice to Proceed date stated in the Supplemental Conditions, Section 5.13.5. The construction duration is stated in the Bid Proposal, page BP-1.
- 3. I represent Proshot Concrete in Florence, Alabama. My company is interested in this project. Would any other method of trenchless repair be considered for this project, such as Shotcrete?**
This project design includes steam/water-cured CIPP and UV-cured CIPP. No other method of trenchless repair will be considered.
- 4. I wish to open a discussion pertaining to the manhole lining specification on the above mentioned project. In the specification section 910.5 item F, 2nd paragraph, you state that the only products approved which do not require a subsequent epoxy coating are Sewpercoat 2000HS or APM MS 10,000 with Con Shield. Please take note that the Sewpercoat 2000 HS data sheet indicates that it is effective in resisting pH levels in a range from 3.5 to 11. I cannot seem to locate those parameters for the MS 10,000 with Con Shield.**

You have included our Reliner MSP as an acceptable product with an additional epoxy corrosion barrier over it. Per the attached data sheet, please note that Reliner MSP will withstand a pH2. This exceeds the claims of the Sewpercoat 2000 HS on their data sheet.

With that said, I respectfully request that you review the Reliner MSP data sheet and consider it as a stand-alone liner without the need of an epoxy as the Sewpercoat is expected, and/or require a corrosion barrier for the Sewpercoat 2000 HS.

There shall be no product approval during the bid phase.

5. Who do I send the video release form to? Are submittals due 9/6 or 9/16 (sorry, my notes are a little messy). Last, but not least, please confirm Stella is the POC for questions. Thanks so much!

Please refer to the Invitation to Bidders (page IV-1) and the Special Conditions (page SC-1)

6. Has the City considered the use of a pre-fabricated ASTM D 3753 fiberglass manhole rehab liner for, in lieu of spray-on liners for this project? A manufactured fiberglass manhole liner would offer maintenance-free corrosion resistance, and excellent adherence with the fiberglass CIPP in this project. Additionally, the rehab manholes are H-20 load rated, independently from the existing degraded manholes, offering “as-new” structural performance for traffic load rating, etc.

Please see the attached information on the aforementioned product.

No.

7. CIPP Specification page 901-6, Item C. Design Parameters. Can a 400,000 psi Flexural Modulus be applied for CIPP wall thickness design (utilizing a resin system with higher physical properties) in lieu of a 250,000 psi Flexural Modulus (a resin system with lower physical properties) ? In other words, is 250,000 psi, stated in the CIPP design parameters, intended to be the minimum Flexural Modulus that can be applied for CIPP wall thickness design?

The flexural modulus stated in Section 901 is the minimum flexural modulus that will be allowed.

8. CIPP Specification page 901-6, Item C. Design Parameters. Please advise as to what to assume for VF of groundwater over the pipe as this dramatically influences the CIPP wall design thickness design outcome.

SAWS makes no warranty or representation as to the site conditions present at the Project. Pursuant to the General Conditions and Bid request and Contract Documents, the contractor is responsible for conducting their evaluation of the site conditions to make their own determinations as to what conditions exist. Any reports or documents made available to contractor's for review by SAWS are for informational purpose only and SAWS makes no warranty or representation as to their accuracy or ability to predict or represent actual site conditions.

9. If a manhole must be installed to facilitate an efficient bypass pumping plan, i.e. for suction or discharge, then can Line 4 Pay item 850 be applied for the task of installing a new manhole?

Yes.

10. Will you verify that it is understood that some wrinkling of the CIPP may occur? Subject to SAWS approval, with unreasonable impedance to flow being the primary criteria for accepting the presence of wrinkles within the finished CIPP.

SAWS understands the realities of installing large diameter CIPP. Any variance from the requirements established in Sections 901 and 905 will be evaluated by SAWS and Engineer.

11. It appears that the CIPP product qualification standards for being commercially proven that were present when this same project bid 2 years ago have been eliminated. For those of us that previously invested in bidding this project before and others, please explain why the minimum commercially proven CIPP product qualification standards for this project were eliminated?

SAWS occasionally updates its Standard Specifications in the normal course of business. Among its updating efforts SAWS determined that the wall thickness table was outdated and the CIPP specification was revised.

12. Is there any known flow data available that SAWS can provide or a benchmark volume to establish “full pipe flow for bypass plan”? If no, then please provide the slope of the pipe in order to facilitate calculating “full pipe flow for bypass plan”.
- Bidders shall assume full pipe flow and use the flow line elevations in the adjacent manholes to calculate the slope.*
13. An 8 hour limit has been stated as the maximum time that a service can be blocked. Whereas 48” diameter CIPP will require that service connections be blocked for substantially longer in order to effectively install, cure, cool down and make access for remote or manual reinstatement, what will SAWS be expecting of the contractor for reinstating services beyond the impossible 8 hour reinstatement time limit? Please provide a detailed protocol for the contractor to follow. Will SAWS pay for the installation of a two-way cleanout utilizing item 854.2 in order to facilitate the bypassing of service connections that will be blocked beyond the 8 hour limit?
- A detailed protocol will not be provided as this falls under the Contractor’s means and methods. Two way cleanouts are in the Bid Quantities for each service connection.*
14. Are there any known locations where Point Repairs will be required for the use of the pay item provided? If yes, then please provide locations.
- Point repair locations, if needed, will need to be identified and verified by the Contractor during pre-CCTV investigation and prior to CIPP installation activities. The existing CCTV video has also been made available to Bidders.*
15. COSA street cut ordinance establishes a street rating (PCI value) threshold for applying limits for pavement restoration. Can SAWS provide the PCI values for all streets that may be affected by this project in order for the contractor to reasonably estimate restoration costs for bidding purposes?
- Excavations in Streets and/or Right of Way with PCI values of 86 or greater shall be deemed 100% loss of pavement life. These Excavations require (a) block to block and curb to curb pavement reconstruction or (b) use of a Hot Mix Asphalt Repaving Process, or (c) such other method of repair as the Director approves, for all cuts. Specifications are available in the UECM.
- On BP-2, the PCIs are shown in a square box. Additional PCIs have been incorporated into the revised plan Sheet BP-2 as part of Addendum No. 1*
16. General Conditions pgs. GC-23 and GC-24, Section 5.7. Please clarify that if Insurance Items 1 through 3 are provided (WC, EL and CGL), then Item 4 the OCP will not have to be provided? Does the word “OR” apply to all of the above, or just item 3 only being substituted for the OCP?
- Correct. If coverage is provided as described in section 5.7.1.1.1-5.7.1.1.3, then 5.7.1.1.4 is not required. The “Or” in this section allowing for a substitution only applies to 5.7.1.1.3 of the GCs (if not provided Contractor will provide coverage per 5.7.1.1.4).*
17. Are there liquidated damages on this project? If so, what do they look like?
- Liquidated Damages are described in the Supplemental Conditions Section, Page SS-3*
18. Regarding by-pass pumping, what type of pumps are required?
- Requirements for bypass pumps are described in SAWS Standard Construction Specification No. 864 (available on SAWS website) and supplemented by the Supplementary Specification No. SS864 (included in the project specification documents).*
19. Section 901.7(B) – It states that “After installation there shall be no wrinkles or form permanent fins.” Is the intent of this statement is no wrinkles will be accepted regardless of size? Is there a tolerance for allowed wrinkles? What standard is being applied for the evaluation of wrinkles? In these diameters it is virtually impossible to guarantee there will be no wrinkles.
- See Question #10 response.*

20. Contractor Coordination – It states that the successful bidder of the 2A project will need to coordinate with the current contractor on the SARO 2B job. There are several overlapping points of work and some of the work will be required to be done by the 2B contractor in order to install the by-pass. How will SAWS handle a project delay at no fault to the successful bidder of the 2A project as it relates to progress on 2B?

A bid item for intermediate demobilization/mobilization has been provided in the contract documents for use at the discretion of the OWNER. The contract General Conditions and Specification 01030 discuss coordination.

21. Section 864.5.2(d) – It states that plugs 24” and larger be equipped with a radio transmitter locating device effective to a depth of 65 feet and have a battery life of 1,000 hours when operated in pulse mode after activation. We are not aware of this technology existing, can SAWS please provide the contact information for the company this portion of the spec was based off? Industry suppliers we have reached out do not know of any such technology currently in use or where to procure such a system.

No vendor information will be provided for the radio transmitting device, as this will be the responsibility of the Contractor. Utilization of transmitting devices for pig tracking may be employed for connecting/fastening to sewer plugs 24” and larger. The Contractor shall provide a submittal for an applicable transmitting device to SAWS for approval, prior to the start of construction.

22. On plan sheet BP2 Detail 2 it appears to show the restoration limits for COSA per the PCI Index for the specific area only and does not provide the actual rating number. There are other areas within this project that fall in COSA right of way, if these areas have a PCI rating greater than 80 then full width mill and overlay will be required for excavations regardless of size. Please provide the actual PCI number for all streets that fall within COSA right of way.

See Question #15 response.

23. On plan sheet TC1 typical traffic control guidelines are provided in accordance with Texas Department of Transportation. From this are we to assume that TXDOT is aware of this project and the need for possible incursion into TXDOT right of way?

This information is provided to the Contractor to aid them in developing a traffic control plan. It is not intended to indicate that incursion into TXDOT right of way would be required.

24. Section 866.1 – States the video shall include an inclinometer visible on the video being noted noting the slope of the main being televised. These are existing pipelines and utilizing trenchless technology will have no impact on the current slope of the pipe, typically this is used for new installation to verify approximate slope of the pipe. Can this requirement be removed as it relates to the pre and post CIPP videos?

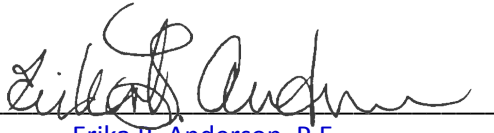
No.

25. Section 901.10.7 – States contractor shall perform an infiltration/exfiltration test in accordance to SAWS Specification No. 849. In ASTM F1216 under Inspection Practices it states “This test is limited to pipe lengths with no service laterals and diameters 36” or less.” As these pipelines are 48” in diameter we ask for a variance from this test and allow CCTV to be the tool for identifying defects.

CCTV will not be allowed as a substitute for the infiltration/exfiltration test.

26. Will excavations be allowed for the purpose of a by-pass suction point North of Laura Lee Way between the manhole located on private property backyard and the S.E. Loop 410 Service Road? What proximity are excavations allowed to take place in relation to the high pressure gas main that runs parallel to the S.E Loop 410 service Rd.

Any excavations in the area of the SARO 2B project must be coordinated with SARO 2B Contractor and also with SAWS & Engineer prior to approval. All excavations must be a minimum of 20 ft. away from the high-pressure gas main running inside the Loop 410 right-of-way.

A handwritten signature in black ink, appearing to read "Erika B. Anderson", written over a horizontal line.

Erika B. Anderson, P.E.
Freese and Nichols, Inc.

END OF ADDENDUM