



**SAN ANTONIO WATER SYSTEM
S. FLORES ST. 48-INCH AND 60-INCH OUTFALL REHAB PROJECT
SAWS JOB NO. 13-4808
SAWS SOLICITATION NO. CD-B-14-019-DB**

ADDENDUM NO. III
May 21, 2014

Consulting Engineer: CP&Y, Inc., TBEF Registration, #F-1741



SAN ANTONIO WATER SYSTEM
S. Flores St. 48-inch and 60-inch Outfall Rehab Project
SAWS Job No. 13-4808
Solicitation No. CD-B-14-019-DB

ADDENDUM NO. III

May 21, 2014

This addendum, applicable to project noted above, is an amendment to the bidding and specification documents and as such shall be a part of and included in the Contract. Acknowledge receipt of this addendum by entering the addendum number and issue date in the spaces provided on all submitted copies of the proposal.

1.0 Addendum Purpose

The purpose of this addendum is to issue revisions and clarifications for the S. Flores St. 48-inch and 60-inch Outfall Rehab Project.

2.0 Pre-Bid Meeting

A mandatory Pre-Conference was held at 10:00 am on May 8, 2014, based on the attached sign-in sheet listed below are the companies that are eligible to submit on this project. The sign-in sheet can be found at the end of this addendum.

3.0 Clarifications

A. Contractor shall see the information below for the update to the SAWS Specifications: The sign-in sheet can be found at the end of this addendum.

“SAWS has recently updated their Standard Specifications for Construction and wants to afford the contracting community an opportunity to be provided with a summary of the major revisions involved. Prior to the published revisions, there was input solicited from contractors, design consultants, and SAWS operating forces, so the changes attempted to incorporate all practical and clear requirements for acceptable water and sewer projects.

Please designate a representative from your construction or design company to attend and be apprised of this summary briefing. The meeting will not address all incorporated changes and/or revisions, as a majority of them were minor in detail and scope.

The meeting will be held on Friday, May 23rd, in SAWS’ Tower II (Conference Room #145), from 3 pm to 5 pm. The location address is 2800 U.S. Hwy 281 North, San Antonio, Texas 78212. Parking is available immediately in front of the building.

In the interim, all inquiries can be submitted to Jesse Guerra at 233-3843, or jesse.guerra@saws.org.”

- B. The budget of this project has been modified from \$2,512,532 to \$2,890,651.
- C. On Sheets BP-1 through BP-3, Bypass Pumping operations shall be able to provide pumping capacity for a full pipe (in our case, two full 48-in and 56-in pipes) or peak wet weather flow.
- D. Bypass layouts, BP-1 through BP-3, have been added to the plans as an option for bypass operations. The contractor shall provide a bypass plan as a submittal to Construction Inspections for review and approval.
- E. Although the title of the project states that the existing pipe to be rehabilitated is a 60-inch diameter pipe, in actuality the diameter of the pipe is 58-inch. See title sheet and compare to Plan on Plan Sheets C-1 through C-3.
- F. The line item in the Bid Proposal titled “Sanitary Sewer Structure Opening” refers to the Detail A & B on Sheet C-3, Sheet 8 of 27, and all the items noted necessary to make the work complete.

4.0 Modifications to Specifications

- A. Delete Bid Proposal in its entirety and replace with the Bid Proposal attached to this addendum.
- B. Add Proposal Certification, attached in this addendum.
- C. **Special Conditions (SC) Specifications**
 - 1. Add, “Regardless of what the bypass layout in the Construction Plans indicates, the Contractor shall provide sufficient bypass operation to accommodate full pipe sewage flows in order to complete the proposed work, as required in SAWS Specifications. Also, the By-pass Pumping plan must be approved by SAWS prior to the Contractor doing any work on this project.”
 - 2. Add “TCEQ Chapter §217.58 and §217.59 does apply to this project. Therefore, all manholes and the newly installed and rehabilitated sewer lines shall all be tested before acceptance by SAWS”
 - 3. Add, “The new precast manhole and structurally rehabilitated manholes require a Holiday testing, and either a hydrostatic or vacuum testing.”
 - 4. Add, “There will be no alternative to Cured-in-Place-Pipe for this project. Contractor shall adhere to the SAWS Specifications provided.”
 - 5. Add, “Contractor shall verify with SAWS Counter Services located on the 2nd Floor, Tower II, for existing record drawings and system maps.”
 - 6. Add, “The intent is to structurally rehabilitate those manholes that are assessed as salvageable. If and when the SAWS Engineer, Construction Inspector and Consultant determine that the manhole cannot be structurally rehabilitated, then the manhole will be replaced with new precast manhole sections, cone, and manhole rings and covers.”
 - 7. Add, “Service reconnections will be on a case-by-case basis when they are encountered. This evaluation shall be made by the Contractor using the pre-televising, and the pre-televising shall be submitted to SAWS. Service reconnections will be done by either remote or person entry with the safety precautions paramount.”

8. Add, "The traffic control plan provided by the Consultant Engineer may be followed. If the Contractor elects not to use the provided traffic control plan, it will be incumbent upon the Contractor to provide a traffic control plan for the CONSULTANT and COSA ROW's review. From their review, the use of flagmen and/or police officers will be determined. Certified flagmen will be necessary for all lane closures."
- D. Add the following provisions to SAWS Construction Specification 864, "Bypass Pumping":
 1. The Contractor shall use bypass pumping equipment that emit low-noise (80-db at 30-ft).
 2. The Contractor shall provide flow management of sewage and wet weather flows around each Work area requiring flow management.
- E. Delete Technical Specifications 865 in its entirety and add Technical Specifications Section 865, "Sewer Main Pre-Television Inspection" attached in this addendum.
- F. Delete Technical Specifications 868, "Sewer Main Cleaning", attached in the Contract Documents dated April 7, 2014, in its entirety. Contractor shall adhere to SAWS Constructions Specifications 868, "Sanitary Sewer System Cleaning".
- G. Delete Technical Specification 1103, "Point Repairs and Obstruction Removals", attached in the Contract Documents dated April 7, 2014. Contractor shall adhere to SAWS Construction Specifications 1103, "Point Repairs and Obstruction Removals".
- H. Delete Technical Specifications 1109, "Sanitary Sewer Service Reconnections", attached in the Contract Documents dated April 7, 2014. Contractor shall adhere to SAWS Construction Specifications 1109, "Sanitary Sewer Lateral Stub Outs or Reconnections".
- I. Delete all references to Specification Item No. 1001, "Flow Management", and replace with SAW Construction Specification Item No. 864, "Bypass Pumping" in all the referenced specifications in the Contract Documents dated April 7, 2014.

5.0 Plans

- A. Delete Sheet C-3 in its entirety and add Sheet C-3 attached in this addendum.

6.0 Questions

- **Q: Will an additional redundant pump be required for the By-pass pumping operations**

A: Yes, the contractor shall provide a redundant pump for By-pass pumping operations.

- **Q: Where is the Mill and Overlay required in the plans?**

A: The location to Mill and Overlay is not specified in the plans but quantified in the Bid Proposal in the event that road repair is warranted.

- **Q: Has the plans changed from the previous bid package?**

A: No, the design plans and the overall intent of the project have not changed from the Bid documents that were submitted in November 2013.

The following items were added to the Bid Proposal from the Contract Documents that was submitted in November 2013:

- 1. COSA Bid Item 535.1- 4-inch Wide Yellow Line*
- 2. COSA Bid Item 535.2- 4-inch Wide White Line*
- 3. SAWS Bid Item 858- Concrete Encasement, Cradles, Saddles and Collars*

A “New Manhole” detail was added to Plan Sheet C-3 that was not included in the previous construction documents submitted in November 2013.

- **Q: Since the existing manholes are shallow, is it possible to install an additional manhole section above the existing grade during bypass operations?**

A: The contractor shall provide a bypass pumping plan that shall include such features/request for review and approval by SAWS Construction Inspections.

- **Q: What are the working hours for this project?**

A: The contractor shall adhere to the General Conditions of the Contract Documents, GC 36, 5.18 “Working Hours”, while coordinating their respective efforts with other City of San Antonio (COSA) agencies and utilities companies. Associated fees and costs, to include permits, required from other agencies while working in the non-traditional SAWS hours (as indicated on GC 36) shall be the Contractor’s responsibility and not SAWS.

- **Q: What are the testing requirements for the CIPP?**

A: Contractor shall adhere to the testing requirements as stated in Specification 910 attached in the Contract Documents and TCEQ §217.58.

- **Q: What is the COSA Right-of-Way permit and inspection fee during traditional working days, holidays, and weekends?**

A: Contractor shall coordinate with the COSA Department of Public Works, Right-of-Way Management Division at 210.207.8022 (<http://www.sanantonio.gov/publicworks/rightofwayandpermits.aspx>) for accurate and additional information.

- **Q: Will sound attenuation devices be required on the bypass pumping operation, and what type will be required?**

A: Yes, sound attenuation devices will be required for this project. Please refer to the provision added in this addendum.

- **Q: In the Contractors Bid Packet Checklist there is a Proposal Certification; page PC-1. We are unable to locate this document within the current bidding package. Was this omitted by mistake or is it a standard form within the SAWS website?**

A: The aforementioned document was omitted by mistake. This document is included in this Addendum.

- **Q: Will an alternate rehabilitation solution to CIPP be allowed for this project?**

A: There will be no alternative rehabilitation method/solution to this project. Contractor shall adhere to the SAWS specifications provided.

- **Q: Will SAWS consider deferring the issuance of the Notice to Proceed to the 4th quarter of 2014 or early 2015?**

A: SAWS will not be deferring the issuance of the Notice to Proceed. This project will continue on its track to achieve board approval and commence of work.

- **Q: Given the large diameter of the sewer, the CIPP curing time could cause the duration of work to extend beyond normal working hours (8am-5pm M-F per GC- 36 p.5.8). Will SAWS allow the Contractor to work 24 hours a day and will Saturday and Sunday work be allowed?**

A: The contractor shall adhere to the General Conditions of the Contract Documents, GC 36, 5.18 "Working Hours". A 24-hour workday to install, cure and/or test the CIPP will not be allowed. If and when additional time is required to install, cure and/or test the CIPP, the Contractor shall notify and coordinate with Construction Inspections 48-hours prior to the work to be performed.

- **Q: Will SAWS charge the Contractor for inspection fees each day? If so how much are the fees?**

A: Per the General Conditions of the Contract Documents (see sheet GC-21, .7 "Permits"), the Contractor shall be responsible for the acquisition and payment for COSA ROW Permits and all associated fees. Contractor shall coordinate with the COSA Department of Public Works, Right-of-Way Management Division at

210.207.8022

(<http://www.sanantonio.gov/publicworks/rightofwayandpermits.aspx>)

for accurate and additional information. SAWS does not assess an inspection fee for its services.

- **Q: Is there a video available of the sewer to be lined? If not, can you provide some information on the condition of the existing pipe to be lined such as whether it is brick or precast and if there is any exposed rebar, large holes, offset joints, or infiltration that would need repair prior to CIPP lining?**

A: A televising video is not available for the sanitary sewer lines that are to be rehabilitated. The condition of the existing pipe is not known, therefore a pre-televising video and a rehabilitation method of the sanitary sewer main is to be provided prior to sanitary sewer pipe rehabilitation. The existing sanitary sewer pipes material is concrete.

- **Q: Since there is a bid item for asphalt restoration, will SAWS allow the Contractor to bill for asphalt restoration where the sewer bypass pipe is trenched across the street?**

A: No, the Contractor shall adhere to SAWS Standard Specification 864 "Bypass Pumping"

- **Q: Will hydrostatic testing of the CIPP liner be required as mentioned in the pre-bid meeting? If so will it be required on each installation?**

A: Yes, testing of the CIPP installation will be required per the SAWS Specification in the Contract Bid Documents and per TCEQ Chapter §217.58 and §217.59.

- **Q: Will the Contractor be responsible for the cost of the water taken from the hydrants? If so, what is the cost per 1000 gallons?**

A: A deposit is still required per SAWS Web Site inside Bexar County is \$910.00 outside of Bexar County is \$1060.00, but since this is a SAWS Project there is no Daily Availability Charge or Water Use Charges assessed. Monthly readings of the meter will be required.

- **Q: In the pre-bid meeting it was mentioned that the Contractor must design the sewer bypass system to be able to handle the flow of the sewer running at full capacity. Will the specifications be revised to include this language?**

A: No, the SAWS Standard Specification Item 864 "Bypass Pumping" will not be revised for this project. Although not stated in the Standard Specification, it shall be required by the Contractor to abide by what was stated in the Pre-Bid Conference, the Contract Documents and Addendums herein.

- **Q: What is the slope of the sewer to be lined with CIPP?**

A: Contractor shall verify with SAWS Counter Services located on the 2nd Floor, Tower II, for existing record drawings and system maps.

- **Q: Where the depths are given for each manhole to rehabilitate on sheets C1-C3, are the depths given measured from the manhole rim to the pipe invert or to the top of the pipe?**

A: The manhole depths are measured from the manhole rim to the pipe invert.

- **Q: On the traffic control plans it appears that flagging will be required in order to maintain 2-way traffic. Will SAWS allow the Contractor to detour the traffic around the work area in lieu of having flaggers control the traffic for the duration of the work?**

A: The traffic control plan provided by the Consultant Engineer may be followed. If the Contractor elects not to use the provided traffic control plan, it will be incumbent upon the Contractor to provide a traffic control plan for the CONSULTANT and COSA ROW's review. From their review, the use of flagmen and/or police officers will be determined. Certified flagmen will be necessary for all lane closures

- **Q: If calcite or heavy debris are encountered that conventional cleaning equipment (high pressure water jetter) would not remove, will the Contractor be compensated the additional cost to remove calcite and heavy debris as necessary in preparation for the CIPP liner?**

A: No, the Contractor shall adhere to SAWS Construction Specification 868 "Sewer Main Cleaning".

Addendum No. III
S. Flores St. 48-inch and 60-inch Outfall Rehab Project
SAWS Job No.13-4808
Solicitation No. CD-B-14-019-DB

ACKNOWLEDGEMENT BY BIDDER

Each bidder is requested to acknowledge receipt of this Addendum No. III and the associated attachments by his/her signature affixed hereto and to file same and attach with his/her bid.

The undersigned acknowledges receipt of this Addendum No. III along with the bid submitted herewith is in accordance with the information and stipulations set forth.

Date

Signature

END OF ADDENDUM NO. III

BID PROPOSAL

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

THE SAN ANTONIO WATER SYSTEM:

Pursuant to Instructions and Invitations 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 to wit:

Item No.	Description (Unit Price to be written in Words)	Unit	Quantity	Unit Price (Figures)	Total Price (Figures)
202.1	Prime Coat _____ Dollars and _____ Cents	GAL	400	_____	_____
203.1	Tack Coat _____ Dollars and _____ Cents	GAL	200	_____	_____
205.4	Hot Mix Asphaltic Pavement, Type D (3" Pavement Thickness) _____ Dollars and _____ Cents	SY	2,000	_____	_____
208.1	Salvaging, Hauling, and Stockpiling Reclaimable Asphaltic Pavement (3" Depth) _____ Dollars and _____ Cents	SY	2,000	_____	_____
511.3	Replacing with Hot Mix Asphaltic Concrete Pavement (3" Type D & 12" Type B); _____ Dollars and _____ Cents	SY	50	_____	_____
530.1	Barricades, Signs and Traffic Handling _____ Dollars and _____ Cents	LS	1	_____	_____
535.1	4-Inch Wide Yellow Line _____ Dollars and _____ Cents	LF	800	_____	_____
535.2	4-Inch Wide White Line _____ Dollars and _____ Cents	LF	800	_____	_____
540	Temporary Erosion, Sedimentation and Water Pollution Prevention and Control _____ Dollars and _____ Cents	LS	1	_____	_____

Item No.	Description (Unit Price to be written in Words)	Unit	Quantity	Unit Price (Figures)	Total Price (Figures)
850	Sanitary Sewer Structures- 6-ft Dia. Manhole (Doghouse) _____ Dollars and _____ Cents	EA	3	_____	_____
850	Sanitary Sewer Structures- 8-ft Dia. Manhole (Doghouse) _____ Dollars and _____ Cents	EA	3	_____	_____
851	Adjusting Existing Manholes _____ Dollars and _____ Cent	EA	5	_____	_____
855	Reconstruction of Existing Manholes _____ Dollars and _____ Cents	EA	10	_____	_____
858	Concrete Encasement, Cradles, Saddles and Collars _____ Dollars and _____ Cents	CY	20	_____	_____
864	Bypass Pumping _____ Dollars and _____ Cents	LS	1	_____	_____
865	Sewer Main Pre-Television Inspection (48" Dia.) _____ Dollars and _____ Cents	LF	2,267	_____	_____
865	Sewer Main Pre-Television Inspection (58" Dia.) _____ Dollars and _____ Cents	LF	598	_____	_____
866	Sewer Main Telescoping Inspection (30" and Larger) _____ Dollars and _____ Cents	LF	2,865	_____	_____
901.1	Install 48" CIPP Sanitary Sewer Pipe, all depths _____ Dollars and _____ Cents	LF	2,267	_____	_____
901.1	Install 54" CIPP Sanitary Sewer Pipe, all depths _____ Dollars and _____ Cents	LF	33	_____	_____
901.1	Install 58" CIPP Sanitary Sewer Pipe, all depths _____ Dollars and _____ Cents	LF	565	_____	_____

Item No.	Description (Unit Price to be written in Words)	Unit	Quantity	Unit Price (Figures)	Total Price (Figures)
910.1	Manhole Rehabilitation _____ Dollars and _____ Cents	VF	110	_____	_____
910.2	Sewer Structure Rehabilitation (Non-circular Manholes) _____ Dollars and _____ Cents	SF	50	_____	_____
1103.3	Obstruction Removal by Remote Device, 48" Diameter, all depths _____ Dollars and _____ Cents	EA	5	_____	_____
1103.3	Obstruction Removal by Remote Device, 58" Diameter, all depths _____ Dollars and _____ Cents	EA	2	_____	_____
1103.3	Obstruction Removal by Person Entry, all depths _____ Dollars and _____ Cents	EA	1	_____	_____
1109	Service Reconnection, all depths (person entry) _____ Dollars and _____ Cents	EA	12	_____	_____
	Sanitary Sewer Structure Opening _____ Dollars and _____ Cents	EA	1	_____	_____

Item No.	Description (Unit Price to be written in Words)	Unit	Quantity	Unit Price (Figures)	Total Price (Figures)
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Bid Summary

SUBTOTAL SAWS JOB NO. 13-4808 (SEWER): \$ _____

LINE ITEM "A"

SUBTOTAL BASE BID (SEWER) \$ _____

		Unit Price (Figures)	Total Price (Figures)
100	MOBILIZATION Percent of the <u>Line Item "A"</u> Sub total Base Bid written in words		
	_____ Percent (Maximum of 10% of the <u>Line Item "A"</u> Sub-total Base Bid amount)	_____ xxxxxxxx	\$ _____
101	PREPARING R.O.W. Percent of the <u>Line Item "A"</u> Sub total Base Bid written in words		
	_____ Percent (Maximum of 5% of the <u>Line Item "A"</u> Sub-total Base Bid amount)	_____ xxxxxxxx	\$ _____
	MOBILIZATION AND PREPARING ROW SUB-TOTAL		\$ _____

Mobilization lump sum bid shall be limited to a maximum 10% of the Line Item "A" Sub-total Base Bid amount. Preparing Right-of-Way lump sum bid shall be limited to a maximum of 5% of the Line Item "A" Sub-total Base Bid amount. The Line Item "A" Sub-total base bid is defined as all bid items **EXCLUDING** Item 100, Mobilization and Item 101, Preparing Right-of-Way. **In the event of a discrepancy between the written percentage and dollar amount shown for Mobilization and Preparation of ROW bid items the written percentage will govern. If the percentage written exceeds the allowable maximum stated for mobilization and or preparation of ROW, SAWS reserves the right to cap the amount at the percentages shown and adjust the extensions of the bid items accordingly.**

TOTAL BID AMOUNT (Line Item "A", Mobilization & Preparing Right of Way) \$ _____

_____ **DOLLARS AND**
_____ **CENTS**

BIDDER'S SIGNATURE & TITLE

FIRM'S NAME (TYPE OR PRINT)

FIRM'S ADDRESS

FIRM'S PHONE NO. /FAX NO.

FIRM'S EMAIL ADDRESS

The Contractor herein acknowledges receipt of the following:
Addendum Nos. _____

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

The bidder offers to construct the Project in accordance with the Contract Documents for the contract price, and to complete the Project within **90** 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.

PROPOSAL CERTIFICATION

Accompanying this proposal is a Bid Bond or Certified or Cashier's Check payable to the Order of the San Antonio Water System for _____ dollars (\$_____), which amount represents five percent (5%) of the total bid price. Said bond or check is to be returned to the bidder unless the proposal is accepted and the bidder fails to execute and file a contract within **10** calendar days after the award of the Contract, in which case the check shall become the property of said San Antonio Water System, and shall be considered as payment for damages due to delay and other inconveniences suffered by said San Antonio Water System due to the failure of the bidder to execute the contract. The San Antonio Water System reserves the right to reject any and all bids.

It is anticipated that the Owner will act on this proposal within **60** calendar days after the bid opening. Upon acceptance and award of the contract to the undersigned by the Owner, the undersigned shall execute standard San Antonio Water System Contract Documents and make Performance and Payment Bonds for the full amount of the contract within **10** calendar days after the award of the Contract to secure proper compliance with the terms and provisions of the contract, to insure and guarantee the work until final completion and acceptance, and the guarantee period stipulated, and to guarantee payment of all lawful claims for labor performed and materials furnished in the fulfillment of the contract.

It is anticipated that the Owner will provide written Authorization to Proceed within **30** days after the award of the Contract.

The work called for in this Contract shall commence on the date indicated in the SAWS written Authorization to Proceed. Under no circumstances shall the work commence prior to the date provided for in the SAWS issued, written Authorization to Proceed. Work shall be completed in full within ____ consecutive calendar days.

The undersigned certifies that the bid prices contained in the proposal have been carefully checked and are submitted as correct and final.

The undersigned further acknowledges compliance with "Wage and Labor Standard Provisions" of this contract and the use of the Blue Book rental rates for establishment of equipment rental rates whether owned or leased during the course of this Contract.

In completing the work contained in this proposal the undersigned certifies that bidder's practices and policies do not discriminate on the grounds of race, color, religion, sex or national origin and that the bidder will affirmatively cooperate in the implementation of these policies and practices.

Signed: _____
Company Representative

Company Name

Address

Please return bidder's check to: _____
Company Name

Address

ITEM 865
SEWER MAIN PRE-TELEVISION INSPECTION

865.1 **DESCRIPTION:**

The Contractor shall furnish all labor, materials, equipment, and incidentals to provide the televising and NASSCO-(PACP) standard video, recorded in MPEG-1 format and written to DVD/CD video of sewer lines and manholes utilizing a color, closed-circuit television inspection unit to determine their condition.

865.2 **GENERAL:**

Pre and Post televising of sanitary sewer mains shall be done immediately after cleaning sewer main. Sewer Main cleaning shall be performed in accordance with Specification Item 868. Televising shall be observed by SAWS Inspector and Contractor as the camera is run through the system. Any abnormalities such as, but not limited to, misaligned joints, cracked/defected pipe, rolled gaskets, shall be identified and logged by the Contractor. Sections requiring repair shall be re-televised to verify condition of repair. No additional compensation shall be provided for re-televising.

865.3 **EXECUTION:**

The Contractor shall provide DVD/ CD and logs of the televised inspection for review. If the Contractor provided DVD/CD of such poor quality that it cannot be properly evaluated, the Contractor shall re-televising as necessary and provide a DVD/CD of good quality at no additional cost to SAWS. If the Contractor cannot provide a DVD/CD of such good quality that can be reviewed by SAWS, SAWS may elect to televise the line at the Contractor's expense.

The television unit shall also have the capability of displaying in color, on DVD/CD, pipe inspection observations such as pipe defects, sags, points of root intrusion, offset joints, service connection locations, and any other relevant physical attributes. Each tape shall be permanently labeled with the following:

- Project name
- Date of television inspection
- Station to station location and size of sanitary sewer
- Street/easement location
- Name of Contractor
- Date DVD/CD submitted
- DVD/CD number

The Contractor shall provide a line diagram area sketch and written log for each completed segment of DVD/CD sewer main describing the section being televised,

Addendum III
Job No. 13-4808
S. Flores St. 48-Inch and 60-inch Outfall Rehab Project
Solicitation No. CB-B-14-019-DB

flow and camera direction, position of service connections, descriptions and location of failures, pipe condition, weather conditions, and other significant observations.

The television inspection equipment shall have an accurate footage counter that displays on the monitor the exact distance of the camera from the center of the starting manhole. A camera with rotating and panning lens capabilities is required. The camera height shall be centered in the conduit being televised. The speed of the camera through the conduit shall not exceed 40 feet per minute.

The Contractor shall be required to have all materials, equipment, and labor force necessary to complete all video on the job site prior to isolating the sewer manhole segment and beginning video operations.

Television inspection shall be done one manhole section at a time and the flow in the section being televised shall be bypassed if the line is in service and the flow exceeds twenty-five (25%) of the internal pipe diameter. When the depth of flow at the upstream manhole of the manhole section being worked is above the maximum allowable for television inspection, the flow shall be reduced to allowable levels by temporarily plugging or blocking the flow or bypass pumping, as approved by SAWS.

The Contractor shall not be allowed to float the camera. There may be occasions during the televised inspection of a manhole section when the camera will be unable to pass an obstruction. At that time, and prior to proceeding, the Contractor shall contact SAWS Inspector. If the length of sewer line cannot be televised because of obstruction, the Contractor shall clean the system as is necessary. If, in the opinion of SAWS Inspector, the obstruction is attributed to a collapsed main or pipe deflection, televising shall be suspended, payment shall be made based on the actual televised length, and the remaining televising of the sewer line shall be continued upon successful correction of the blockage by the Contractor. No additional payment shall be made for additional setups required due to obstructions encountered during televising.

The Contractor is solely responsible for any damage of sewer mains as direct result of televising operations. Any repair shall also be the responsibility of the Contractor. The method(s) used for securing passage of the camera are at the discretion of the Contractor, as approved by SAWS.

No separate and/or additional payment will be made for any excavation, man entry, or any other method that may be required to retrieve video equipment that may have been hung up, destroyed, and/or lost during the operation.

865.4 SEWER MAIN BYPASS PUMPING:

The Contractor shall perform flow management operations in accordance with Item No. 01001 and as outlined below.

The Contractor shall furnish all labor, supervision, tools, equipment, appliances, and materials to perform all operations in connection with bypass pumping of sewage flow for the purpose of preventing interference with the televising of the sanitary sewer manholes and mainlines as well as providing reliable sewer service to the occupants of the buildings being served.

The Contractor will be required to provide adequate pumping equipment and force mains in order to maintain reliable sanitary sewer service in all sanitary sewer lines involved in this project. The Contractor shall notify the Inspector should a surcharge occur during the televising process that results in overflows of sewage. In case of bypass equipment failure, the Contractor shall discontinue work and release sewer flows until such time as equipment failure is corrected. SAWS shall approve the location of the pump(s), force main(s), and discharge points. Under no circumstances shall the flow be interrupted or stopped, such that damage is done to either private or public property or sewage flows or overflows into a storm sewer or natural waterway.

The Contractor shall provide bypass pumping of sewage around each segment(s) of pipe that is to be televised and shall be responsible for all required bulkheads, pumps, equipment, piping, and other related appurtenances to accomplish the sequence of pumping. A qualified person shall man the pumps, on-site, at all times during the bypassing procedure.

All piping, joints, and accessories shall be designed to withstand the maximum bypass system pressure, or a minimum of 50 psi, whichever is greater. During bypass pumping, no sewage shall be leaked, dumped, or spilled into or onto any area outside of the existing sanitary sewer system. When bypass-pumping operations are complete, all piping shall be drained into the sanitary sewer prior to disassembly. The Contractor shall demonstrate that the pumping system is in good working order and can successfully handle flows during cleaning and televising operations, prior to commencing with the cleaning and televising of the system.

865.5 MATERIALS REQUIRED FOR BYPASS OPERATION:

The Contractor shall be required to have all materials, equipment, and labor necessary to complete the repair or replacement on the jobsite prior to isolating the sewer manhole or line segment and beginning bypass pumping operations.

865.6 **TRAFFIC CONSIDERATIONS:**

The Contractor shall locate bypass pumping suction and discharge lines so as to not cause undue interference with the use of streets, private driveways, and alleys to include the possible temporary trenching of force mains at critical intersections. Traffic management shall be done under the approval of respective City, County, or State Traffic, Barricade, and Signalization Departments. The Contractor shall not open cut existing streets to accommodate bypass-pumping piping unless specific written approval is given.

865.7 **PUMP OPERATIONS:**

The Contractor shall plug off and pump down the sewer manhole and/or line segment in the immediate work area and shall maintain the sanitary sewer system so that surcharging does not occur. The Contractor shall coordinate with all property owners to ensure that no damage will be caused to their property during any and all sewer rehabilitation work. The Contractor shall complete the televising as quickly as possible and shall satisfactorily meet all requirements prior to discontinuing bypass pumping operations and returning flow to the sewer manhole or line segment. The Contractor shall ensure that no damage will be caused to private property as a result of bypass pumping operations. Ingress and egress to adjacent properties shall be maintained at all times. Ramps, steel plates, or other methods shall be employed by the Contractor to facilitate traffic over surface piping. There will be no separate pay item for this work.

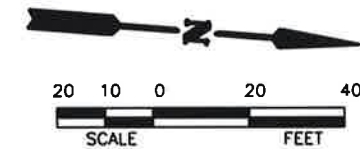
In the event that sewage accidentally drains into the drainage system or is spilled within the project, the Contractor shall immediately stop the overflow, notify SAWS Inspector, and take the necessary action to clean up and disinfect the spillage using an HTH or equal chemical at no additional cost to SAWS.

865.8 **MEASUREMENT AND PAYMENT:**

Measurement and payment for pre-television inspection will be made for the work to be done on the basis of the unit bid price per **linear foot** of the pipe diameters specified. Payment shall be considered full compensation for all labor, materials, equipment, tools, logging, by pass pumping and incidentals necessary to complete the work.

Payment per linear foot shall include pre-television inspection of the pipe segment being rehabilitated. Post-television inspection will not be measured or paid for separately, but shall be considered subsidiary to other rehabilitation bid items.

5/21/2014 12:59:42 PM hcabrera pw:/Active Projects/SAW10054 - Unspecified Water Sewer Rehab 2009/SAW100054.09/8.00 Plans and Drawings/8.30 Cut Sheets/10005409SCVPP03.dgn



- SHEET NOTES**
1. CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF THE 54" FORCE MAIN TURNS TOWARD THE CREEK CHANNEL PRIOR TO CONSTRUCTION (NSPI).
 2. PRIOR TO PROVIDING AN OPENING AND REHABILITATING MH STRUCTURE 14482, CONTRACTOR SHALL VIDEOTAPE AND/OR VIDEORECORD THE EXISTING STRUCTURE FOR A STRUCTURAL CONDITION ASSESSMENT.
 3. CONTRACTOR SHALL MAINTAIN EXISTING REINFORCEMENT WITHIN THE EXISTING STRUCTURE BY CUTTING THE EXISTING STRUCTURAL BARS NECESSARY FOR THE STRUCTURE OPENING.
 4. PARALLEL MANHOLES BETWEEN FAIRMONT AND LUBBOCK STREET ARE CONNECTED BY A SEGMENT OF PIPE. CONTRACTOR SHALL NOT REHABILITATE SAID LINES, AND TAKE INTO ACCOUNT WHEN PERFORMING BY-PASS PUMPING OPERATIONS.
 5. PAYMENT FOR NEW MH BASE (DOGHOUSE) SHALL BE INCLUSIVE TO PAY ITEM 850 "SANITARY SEWER STRUCTURES"



SAWS JOB NO. 13-4808



SAN ANTONIO WATER SYSTEM

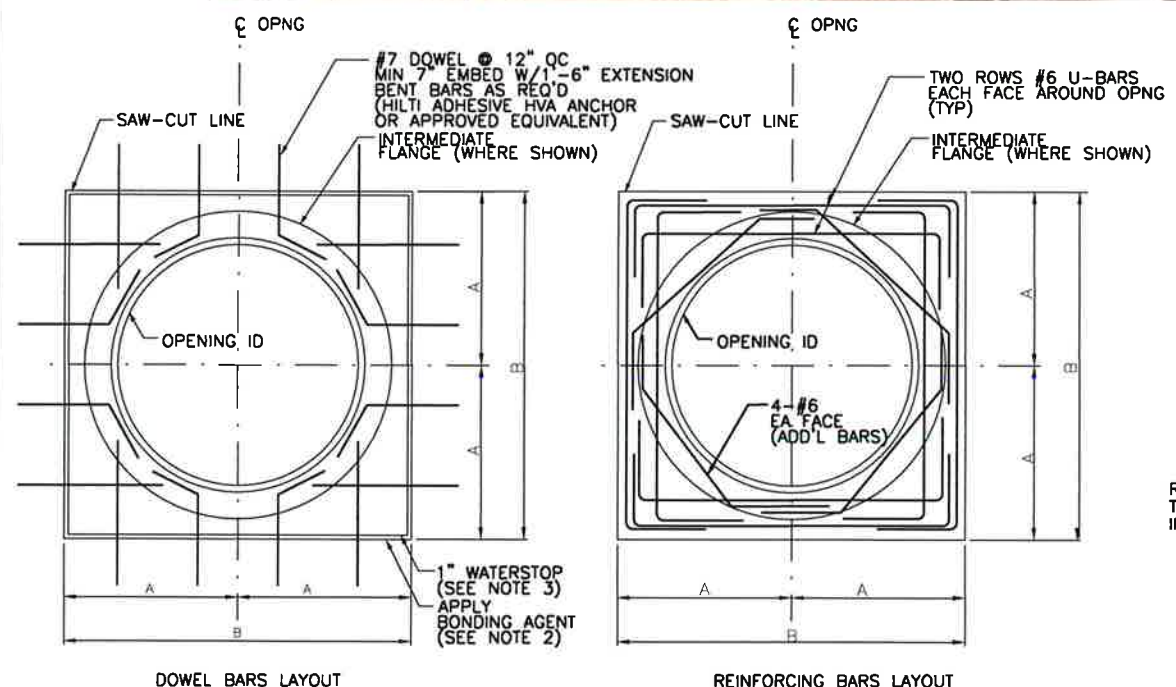
NO.	REVISION	DATE	BY	HC	11/13
1.	CALLOUT, SHEET NOTES, DETAIL	11/13			

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL. THIS SHEET, ADJUST SCALE

SAN ANTONIO WATER SYSTEM
S. FLORES ST. DR.-127
48" & 60" OUTFALL REHAB. PROJECT

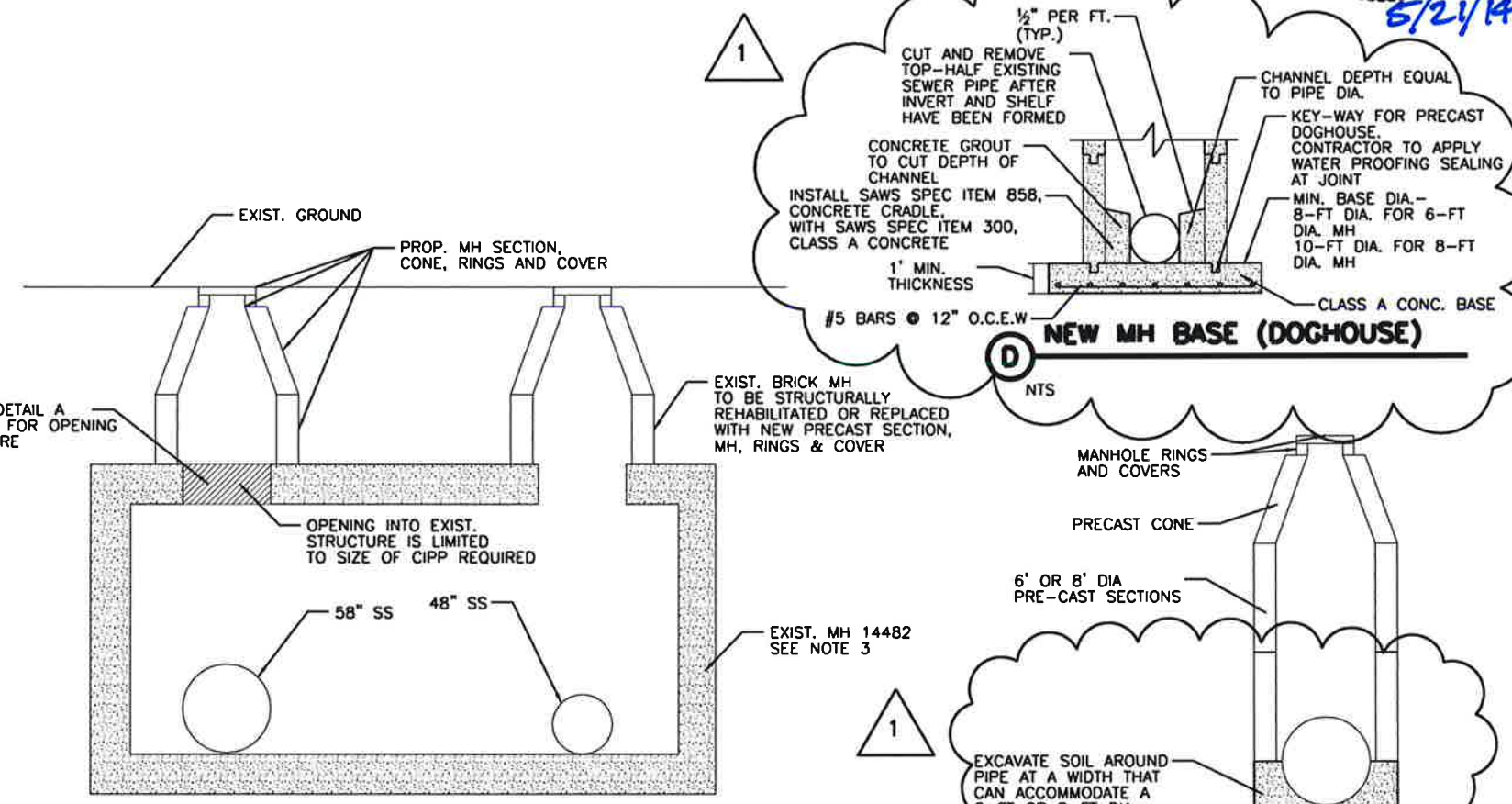
Date:	MARCH 2014
Designed:	HJC
Drawn:	EG
Reviewed:	JL
CP&Y Proj. No.	SAW100054.09

SHEET C-3
SHEET 8 OF 27



- NOTES:**
1. PIPE END STEEL RING OR BARS MAY BE EXPOSED TO CONNECT EXISTING WALL. REFER TO PIPE MANUFACTURER'S DETAILS AS REQ'D.
 2. CONCRETE BONDING AGENT PRODUCT SHALL BE IN ACCORDANCE WITH ASTM C881 TYPE II REQUIREMENTS.
 3. WATERSTOP SHALL BE PLACED AT MIDDLE OF WALL AROUND OPENING. PRODUCT MAY BE MADE BY "VOLCLAY RX101".
 4. DIMENSION A= HALF PIPE OD + 3" (MIN) OR A= HALF INTERMEDIATE FLANGE OD + 3" B= 2 TIMES OF A
 5. DIMENSION A & B MAY BE REDUCED IF PIPE END STEEL EXPOSED.

(A) OPENING THRU EXIST WALL / FLOOR
NTS



(B) MH STRUCTURE 14482
NTS

(C) NEW MH INSTALLATION (DOGHOUSE)
NTS

Sign-In Sheet
MANDATORY PRE-BID

S. Flores St. 48-Inch and 60-Inch Outfall Rehab Project
Solicitation No.: CD-B-14-019-DB
May 8, 2014 at 10:00 a.m. CR-C239

Print Name	Company	Address	Phone	Fax	E-mail	Contractor Type
Billy Gates	SAK	804 Hoff Road O'Fallon MO 63366	636-385-1000		tgulls@sakon.com	<input checked="" type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
Rik Martinez	Rainier Rent	3744 SE Loop 410 SA, TX 78222	210-452-1725	210-648-4104	RMARTINEZ@rainier-rent.com	<input type="checkbox"/> General Contractor <input checked="" type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
Kevin McQuarrie	Veberer, LLC	4303 NEW TRAILS DR THE WOODLANDS TX	281-987-8787	281-987-2388	kmquarrie@veberer.com	<input checked="" type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
Tim Maylor	INSITUFORM TECHNOLOGIES LLC	168 Warehouse Buda, TX 78610	512-677-8732	512-295-8889	timaylor@insituform.com	<input type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
Kim Murphy	Barftek	5221 Port Zimny San Antonio	210-848-4780	210-648-4781	kim@barftek.com	<input checked="" type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
Arnold Garcia	PRMT Sandblasting	4545 S. Presa SPT 78223	210-633-2030	210-633-0135	prmt@prmt.com	<input checked="" type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
Brian Costantino	United Rentals Trench Safety	7614 GRISSEM RD SAT 78251	210-331-4192	888-535-2495	bcostantino@ur.com	<input type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input checked="" type="checkbox"/> Supplier
JOHN D'ALESSANDRO	RIC-MAN CONCR	6850 19 mile Road Spokane Heights MO 64314	584-724-5210	584-724-8290	jd@ricman.com	<input checked="" type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
Justin Barnett	Nidas Flow Control	2525 Relojo Hood St Houston TX 77005	478-731-6279		Justin@nidas.com	<input type="checkbox"/> General Contractor <input checked="" type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
Luis Moran	SAWS	US 281 HWY	239-3481		Luis.Moran@SAWS.com	<input type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier

11	M. Ammswiler	Atlas Construction	312 Sunset Dr Granite Shards, TX 78654	830 596-0496	713 634-0457 Fax	mrca@att.net	<input checked="" type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
12	Gerald Hoffpauir	IPR SC	7400 S. Santa Fe Hou Tx. 77061	713 875-5472 Phone		ghoffpauir@teamipr.com	<input checked="" type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
13	ANTONIO DUCHE	DRITZ GROUP	5633 CAPRAWAY Bldg San Antonio, TX	210-954-9599		tonyduche@gmail.com	<input checked="" type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
14	Manuel Ortiz	Ortiz Group Contractors	5633 Caraway Bldg San Antonio	787-647-5393		mao@ortizgroup.com	<input checked="" type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
15	Philip Thomas	Layne Lintec	4701 Decker Dr Baytown, TX 77520	281 838-1500	281 838-0441	philip.thomas@layne.com	<input checked="" type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
16	Travis Allen	IPR-SC	3355 SE Loop 410 San Antonio, TX 78222	210-621-5306		fallen@teamipr.com	<input type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
17	Allen Callia	Sambel Rentals Pump & Power	16825 N IH 35 Selma, TX 78154	512-845-1620		plm578@sambelrentals.com	<input type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
18	Rob Bright	Western Slope Utilities, LLC	P.O. Box 387 Breckenridge, CO 80424	847-777-7542	847-272-5330	rob.bright@gsinc.com	<input checked="" type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
19	Luke Keenan	Midas Flow Controls	2525 Robinhood St Houston, TX 77005	720 454 4866		luke@midasfc.com	<input type="checkbox"/> General Contractor <input checked="" type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
20	Kat Price	SAWS		233-3446			<input type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
21	David Bentes	SAWS		(210) 233-3849	(210) 233-4808	dbentes@saws.com	<input type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
22	Sandra Luns	SAWS		233 3385		sluns@saws.com	<input type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input checked="" type="checkbox"/> Supplier

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23	Hugo Garcia	CPCT	300 E. Sawbells Blvd SAs Anthony, TX	210. 494. 8288	233-3135 233-3135	hca@causomny causomny	hca@causomny	<input type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
24	Cristina Hernandez	SAMS			210-233-3845	crihermandaz@saus.org	crihermandaz@saus.org	<input type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
25	JESSE GUERRA	"			233 3043	Jesse S Vermae saus.org	Jesse S Vermae saus.org	<input type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
26	NATHAN VIRELL	SAMS			233-3135	nathaniel.virell@sams.org	nathaniel.virell@sams.org	<input type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
27	Franck Aniel	SAs			233-3135	Franck Aniel@sams.org	Franck Aniel@sams.org	<input type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
28								<input type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
29								<input type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier
30								<input type="checkbox"/> General Contractor <input type="checkbox"/> Sub-Contractor <input type="checkbox"/> Supplier