SAN ANTONIO WATER SYSTEM 2013 SMALL DIAMETER REHAB PROGRAM – PROJECT 5 SAWS JOB NO. 13-4811 SAWS SOLICITATION NO. B-13-044-MF

ADDENDUM NO. 2 August 9, 2013

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

Addenda Purpose:

ITEM 1.0 BID PROPOSAL:

A. Remove in its ENTIRETY and REPLACE with the revised "Bid Proposal" attached.

ITEM 2.0 SPECIAL SPECIFICATIONS:

A. Remove Specification Item No. 910 – Manhole Rehabilitation in its ENTIRETY and REPLACE with the attached revised "Specification Item No. 910".

ITEM 3.0 PLANS:

- A. Sheet 2,
 - a. Remove in its ENTIRETY and REPLACE with the revised "Sheet 2" attached.
- B. Sheet 4, Line 1-B:
 - a. Five or more re-connect trenches and entry/exit pits combined will require manhole to manhole restoration.
 - i. Note: There is an existing over-sized patch covering the entire intersection of Glochester & Spofford Any cut in the patch will require a final restoration of the entire patch.
 - b. Glochester St. Spofford to Rogers Ave, normal trench restoration.
 - i. Note: There is an existing over-sized patch covering the entire intersection of Glochester & Spofford Any cut in the patch will require a final restoration of the entire patch.

C. Sheet 5, Line 2-A:

- a. Elmira St., from IH-10 Access to N. Flores St. normal trench restoration.
- b. Do not damage new curbs, sidewalks & driveways.

D. Sheet 6, Line 2-B:

- a. W. Euclid St. from N. Flores to Jackson, five or more reconnect trenches and entry/exit pits combined will require manhole to manhole restoration.
- b. Do not cut traffic loops for signal at N. Flores & W. Euclid
 - i. Contact Traffic Ops
 - ii. Existing crosswalk re-stripe if damaged.

E. Sheet 7/8, Line 2-C:

- a. Brooklyn Ave. from Cypress to Euclid, normal trench restoration, however this is an Arterial/Collector and will require 12-in of ATB & 3-in Type C modified.
- b. Brooklyn Ave. from Euclid to IH-35 Access Rd., normal trench restoration, however this is an Arterial/Collector and will require 12-in of ATB & 3-in Type C modified.

F. Sheet 8, Line 2-D:

- a. Euclid from Baltimore to McCullough normal trench restoration.
- b. Euclid from McCullough to Brooklyn, normal trench restoration.
- c. Euclid from Brooklyn to Erie, normal trench restoration.

G. Sheet 8, Line 2-E:

a. McCullough from Euclid to IH-35 Access Rd., normal trench restoration, however this is an Arterial/Collector and will require 12-in of ATB & 3-in Type C modified.

H. Sheet 9, Line 3:

a. Ripley Ave from W. Russell Place to W. Craig Place normal trench restoration.

I. Sheet 10:

- a. Line 4-A:
 - i. Warner Ave. from Magnolia Ave. to dead-end, normal trench restoration.
- b. Line 4-B

- i. Alley between W. Mulberry & W. Agarita base drive/roadway.
- c. Line 4-C:
 - i. Alley between W. Huisache & W. Mulberry is used as church lawn.
- d. Line 4-D:
 - i. Alley between Magnolia & W. Huisache is a concrete/asphalt alley that AT&T uses for access to their parking lot.
 - ii. Note: There are many existing patches no patch in a patch.
- J. Sheet 11, Line 5-A & B:
 - a. Located within Terrell Hills
 - i. THERE SHALL BE NO STREET CUTS ON ELIZABETH RD.

K. Sheet 12

- a. Line 6-A:
 - i. Located in Terrell Hills
 - 1. THERE SHALL BE NO STREET CUTS ON TERRELL RD.
- b. Line 6-B:
 - Burr Rd. from Raphail Dr. to Wurzbach Pkwy has a section of NEW PAVEMENT from between MH 62090 & MH 62091 CANNOT BE CUT.
 - ii. MH 62092 is located in a new concrete median which cannot be cut.
 - iii. Raphail to new pavement, normal trench restoration.

L. Sheet 13:

- a. Line 7-A:
 - i. Ackard Place from Commercial to Burton, normal trench restoration.
 - Note: There is an existing over-sized patch covering the entire intersection of Commercial & Ackard Place -Any cut in the patch will require a final restoration of the entire patch
 - iii. Commercial, this is an Arterial/Collector and will require 12-in of ATB for trench repair & a 3-in mill & overlay for the intersection
- b. Line 7-B:

i. Alley between Burton Ave. & Alley is a grass/base alley that is being used as a rear entrance for resident.

M. Sheet 14:

- a. Line 8-A:
 - i. Mason St. from Olive St. to Pine St. normal trench restoration.
 - 1. Note: There is an existing patch in this section no patch in a patch.
 - 2. THERE SHALL BE NO STREET CUTS ON OLIVE ST.
 - ii. Mason St. from Pine St. to Willow, five or more reconnect trenches and entry/exit pits combined will require manhole to manhole restoration.
 - 1. Note: There are many patches in the intersection of Pine & Mason no patch in a patch.
- b. Line 8-B:
 - i. Colita from Pine to Muncey, normal trench restoration.
- c. Line 8-C:
 - i. Willow from IH-35 Access Rd. to Mason St. normal trench restoration.
 - ii. Willow from Mason St. to Colita normal trench restoration.
 - iii. Willow from Colita to Carson five or more re-connect trenches and entry/exit pits combined will require manhole to manhole restoration.
 - 1. THERE SHALL BE NO STREET CUTS ON CARSON.
- d. Line 8-D:
 - i. Pine St. from Mason St. to McAdoo St. normal trench restoration, however this is an Arterial/Collector and will require 12-in of ATB & 3-in Type C modified.
 - 1. Note: There are many patches in the intersection of Pine & Mason no patch in a patch.
 - ii. Pine St. from McAdoo St. to Colita normal trench restoration, however this is an Arterial/Collector and will require 12-in of ATB & 3-in Type C modified.
 - iii. Pine St. from Colita to Carson, normal trench restoration, however this is an Arterial/Collector and will require 12-in of ATB & 3-in Type C modified.
- e. Line 8-E:
 - i. Muncey from Mason St. to Carson, normal trench restoration.

f. Line 8-F:

- i. Pine St. from IH-35 Access Road to Winslow, normal trench restoration, however this is an Arterial/Collector and will require 12-in of ATB & 3-in Type C modified.
- ii. Pine St. from Winslow to Mason St., normal trench restoration, however this is an Arterial/Collector and will require 12-in of ATB & 3-in Type C modified.

g. Line 8-G:

- i. McAdoo St. from Olive St. to Pine St. paved alley
 - 1. THERE SHALL BE NO STREET CUTS ON OLIVE ST.

N. Sheet 15, Line 9:

- a. N. Flores may be cut, however there is an existing patch nearby no patch in a patch
- b. THERE SHALL BE NO STREET CUTS ON RIPLEY AVE.

O. Sheet 16, Line 10:

- a. W. Hollywood Ave. from Aganier Ave. to Beacon Ave. normal trench restoration.
 - i. THERE SHALL BE NO STREET CUTS ON AGANIER AVE.
 - ii. There are many existing patches no patch in a patch.
- b. W. Hollywood Ave. from Beacon Ave. to RR ROW normal trench restoration.
 - i. Note: Beacon Ave. may be cut; There is existing RR striping re-stripe if damaged.

P. Sheet 17, Line 11-A:

- a. Pasadena from Neer Ave. to Santa Paula, five or more reconnect trenches and entry/exit pits combined will require manhole to manhole restoration.
 - i. Note: Neer Ave may be cut.
- b. Pasadena from Santa Paula to Catalina Ave. five or more reconnect trenches and entry/exit pits combined will require manhole to manhole restoration.
 - i. Note: There is an existing patch located in this block no patch in a patch.
 - ii. THERE SHALL BE NO STREET CUTS ON CATALINA AVE.
- c. Pasadena from Catalina to IH-10 Access Road five or more reconnect trenches and entry/exit pits combined will require manhole to manhole restoration.

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Q. Sheet 18, Line 11-B:

a. Alley between Santa Anna & Santa Barbara is a grass alley.

ITEM 4.0 TO ANSWER QUESTIONS SUBMITTED IN WRITING:

No technical questions were received by 4:00 PM (CT) on August 8, 2013.

ITEM 5.0 NON-MANDATORY PRE-BID MEETING:

Meeting Notes are attached for information only. The pre-bid meeting sign-in sheet has been posted previously on the SAWS website.

ACKNOWLEDGEMENT BY BIDDER

Each bidder is requested to acknowledge receipt of this Addendum No. 1 by his/her signature affixed hereto and to file same and attach with his/her bid.

The undersigned acknowledges receipt of this Addendum No. 1 and the bid submitted herewith is in accordance with the information and stipulations set forth.

DATE SIGNATURE

END OF ADDENDUM NO. 2



PROPOSAL

PROP	OSAL OF				, a	corporation a				
partnei	ship consisting of									
and an	individual doing business a	.s								
ТО ТН	IE SAN ANTONIO WATE	R SYSTEM:								
materia pipe be accord Job No the tim to esta No cha	nt to Instruction and Invitable as specified and performursting pipe methods and ance with the Plans and Spo. 13-4811. The undersigne of bidding, all quantities ablish a unit price for variouange in the unit price will ned. The work will be performed.	n the work red required appured actions for ed acknowled are estimated, as line items to 1 be made, re	quired for artenance or the 20 ges and and it is o be pai egardles	or the rehabilities for San And 13 Small Dia understands the intent of die the Contracts of the actus	tation of sanitary atonio Water Sys meter Rehab Proghat all projects and this proposal and tor by SAWS on all quantity of the	sewer mains by tem (SAWS) in gram - Project 5, re unspecified at quantities herein an annual basis.				
Item No.	Description (Unit Price to be written in		Unit	Quantity	Unit Price (Figures)	Total Price (Figures)				
103.3	Remove Sidewalks &	Driveways								
		Dollars								
	and	Cents	SF	25						
203.1	Tack Coat									
		Dollars								
	and	Cents	GAL	262						
205.4	Hot Mix Asphaltic Pave	Hot Mix Asphaltic Pavement, Type D (2" Pavement Thickness)								
		Dollars								
	and	Cents	SY	500						
208.1	Salvaging, Hauling, and Stockpiling Reclaimable Asphaltic Pavement (2" Depth)									
		Dollars								
	and	Cents	SV	2610						

Item No.	Description (Unit Price to be written in Words)		Unit	Quantity	Unit Price (Figures)	Total Price (Figures)			
502.1	Concrete Sidewalks								
	Do	llars							
	and C	ents	SY	50					
02.2	Concrete Driveways								
	Do	llars							
	and C	ents	SY	50					
511.3	Replacing with Hot Mix Asphaltic Concrete Pavement (2" Type D & 10" Type B)								
	Do	llars							
	and C	ents	SY	2263					
11.3	Replacing with Hot Mix Asphaltic Concrete Pavement (3" Type D & 12" Type C)								
	Do	llars							
	and C	ents	SY	347					
530.1	Barricades, Signs and Traffic Handling								
	Do	llars							
	and C	ents	EA	11					
05	Traffic Control Plan								
	Do	llars							
	and C	ents	EA	11		,			
51	Adjusting Existing Manholes								
	Do	llars							
	and C	ents	EA	5		·			
52.1	Sanitary Sewer Manhole (0'-6')								
	Do	llars							
	and C	ents	EA	6					

Item No.	Description (Unit Price to be written in Words)	Unit	Quantity	Unit Price (Figures)	Total Price (Figures)			
852.3	Extra Depth Manholes (>6')	cents VF 5 cents VF 5 cents LF 10 n-out cents EA 5 nhole cents EA 3 Saddles and Collars cents CY 15 cents CY 15 cents CY 15 cents CY 15 cents LF 17,59 r Pipe, all depths cents LF 16,87						
	Dollars							
	and Cents	VF	5	-				
354	Sanitary Sewer Laterals							
	Dollars							
	and Cents	LF	10					
354.1	Two-Way Sanitary Sewer Clean-out							
	Dollars							
	and Cents	EA	5					
355	Reconstruction of Existing Manhole							
	Dollars							
	and Cents	EA	3					
858	Concrete Encasement, Cradles, Saddles and Collars							
	Dollars							
	and Cents	CY	15					
865	Sewer Main Pre-Television Inspection (8" through 15" Diameter)							
	Dollars							
	and Cents	LF	17,596					
900.1	Pipe Bursting 8" Sanitary Sewer Pipe, all depths							
	Dollars							
	and Cents	LF	16,879					
900.1	Pipe Bursting 10" Sanitary Sewer Pipe, all depths							
	Dollars							
	and Cents	LF	717					

Item No.	Description (Unit Price to be written in Words)	Unit	Quantity	Unit Price (Figures)	Total Price (Figures)			
910.1	Manhole Rehabilitation (Standard Manholes 4 ft. in Diameter)							
	Dollars							
	and Cents	VF	575					
103.1	Point repairs for 8" Diameter, (all depth) including up to 10 LF of piping							
	Dollars	S						
	and Cents	EA	10					
103.1	Point repairs for 10" Diameter, (all depth) including up to 10 LF of piping							
	Dollars	5						
	and Cents	EA	1					
103.2	Extra length point repair, 8" Diameter, all depths							
	Dollars	S						
	and Cents	LF	5					
103.2	Extra length point repair, 10" Diameter, all depths							
	Dollars	3						
	and Cents	LF	5					
1103.3	Obstruction Removal by Excavation, 8" Diameter, all depths							
	Dollars	3						
	and Cents	EA	5	-				
1103.3	Obstruction Removal by Excavation, 10" Diameter, all depths							
	Dollars	3						
	and Cents	EA	1		-			
109	Service Reconnection, (w/ open cut excavation, all depth, including up to 10 LF of lateral)							
	Dollars	1						
	and Cents	EA	403					

Item No.	Desc (Unit Price to be write	eription tten in Words)	Unit	Quantity	Unit Price (Figures)	Total Price (Figures)	
4438	Flowable Fill						
		Dollars					
	and	Cents	CY	25			
		Bid Summary					
TOTA	AL BID AMOUNT:			\$			
				BIDDER'S SIGNATURE & TITLE			
				FIRM'S NAME (TYPE OR PRINT)			
				FIRM'S ADDRESS			
				FIRM'S PHO	ONE NO. /FAX 1	NO.	
				FIRM'S EMAIL ADDRESS			
	contractor herein ackno	wledges receipt of	the follo	owing:			
Adder	ndum 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 180 calendar days from notice to proceed date or until funds are exhausted from the contract, whichever comes first. 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 Proposal which are included on the following pages.

ITEM 910 MANHOLE REHABILITATION SPECIFICATION

910.1 Description

This item shall govern rehabilitation of manholes complete and in place and the materials used therein, including cleaning, interior surface restoration, priming the prepared surface and coating (including bench and invert of the manhole). It shall also include all required by-pass pumping necessary to complete the work.

910.2 Certification

Manufacturer shall certify that Applicator has been trained and approved in the handling, mixing and application of the products to be used. Equipment to be used for applying the products by the Applicator shall be certified and approved by the Manufacturer. At least five (5) recent references of Applicator indicating successful application of proposed liner on project of similar size and scope shall be submitted by Contractor. *Only manhole rehabilitation products approved by the SAWS Standards Committee shall be used.*

The Contractor shall submit descriptive information including technical data sheets and ASTM test results on each product proposed indicating that the product conforms to and it is suitable for its intended use per these specifications. *All required submittals must be satisfactory to SAWS*.

910.3 Surface Preparation

Proper surface preparation procedures must be followed to ensure adequate bond strength to any surface to be coated. Applicator shall inspect all surfaces specified to receive a liner prior to surface preparation. Applicator shall notify Owner of any noticeable disparity in the surfaces which may interfere with the proper preparation or application of the repair mortar and/or liner(s). Concrete that is not sound or or has been damaged by chemical exposure shall be removed to a sound, concrete surface. All contaminants including: all oils, grease, incompatible existing coatings, waxes, form release, curing compounds, efflorescence, sealers, salts, or other contaminants shall be removed. Surface preparation methods(s) should be based upon the conditions of the substrate and the requirements of the liner to be applied.

Surface to receive liner shall be cleaned and abraded to produce a sound concrete surface with adequate profile and porosity to provide a strong bond between the protective coating and substrate. High pressure cleaning with a minimum of 4,000 psi, and 4 gallons per minute using a rotating pencil nozzle, shall be used to clean and free all foreign material within the manhole. Detergent water and cleaning or muratic acid shall be used when grease and oil are present. All materials resulting from the cleaning of the manhole shall be removed prior to application of coating.

Active water infiltration shall be stopped by using a cementitious water plug or hydroactive grout such as Strong-Seal Strong-Plug, Quadex Hydra-Plug or approved equal, which is compatible with the specified coating. Prepared surfaces should be tested after cleaning but prior to

application of the coating, if a specific pH or moisture content of the concrete is required according to manufacturer's recommendations.

910.4 Product Handling

Protective-coating materials are to be handled according to their material safety data sheets. Materials are to be kept dry, protected from weather and stored under cover.

<u>Repair/under-coat materials must be accepted and approved by the protective coating manufacturer</u> for compatibility with the specified liner and shall be used to fill voids, structurally reinforce and/or rebuild surfaces, etc. as determined necessary by the engineer and liner applicator.

910.5 Materials and Components

- (1) Concrete: Concrete shall conform to City of San Antonio (CoSA) Standard Specifications for Public Works Constructed dated October 1995. Item 300- Concrete (concrete class "A").
- (2) Mortar shall be composed of one part Portland Cement, one part masonry cement (or ¼ part hydrated lime) and masonry sand equal to 2-1/2 to 3 times the sum of the volumes of the cements and lime used.
- (3) Unless otherwise specified, all grouting shall be done with non-shrinking grout. Non-shrinking Grout: Non-shrinking grout shall be furnished factory premixed so only water is added at the job site. Grout shall be mixed in a mechanical mixer. No more water shall be used than is necessary to produce a flowable grout. All proportioning and mixing of the components shall be in accordance with manufacturer's recommendations.
- (4) Reinforcement: Reinforcing steel shall conform to the requirements of COSA Item 301-Reinforcing Steel.
- (5) Brick: Replacement brick for ring adjustment courses shall be of first quality, sound, kiln fired, new unbroken brick.
- (6) For rehabilitation of existing manholes, apply a combination of cementitious coating and epoxy coating, with the cementitious coating first, followed by the epoxy coating. Lafarge SewperCoat 2000 HR regular, with the required one inch thick application, is the only product yet approved which satisfies the requirement of applying the combination of both the cementitious coating and epoxy coating. Approved materials are as follows:

Cementitious coating: With required one inch thick application.

- Permacast CR-5000
- Strong Seal MS-2C
- Standard Cement Material Inc. Reliner
- Quadex Aluminaliner

Epoxy coating: With specified thickness application.

- Raven 405 Series High Build Epoxy Liner: Required thickness 125 mils
- Spray Wall Polyurethane System: Required thickness 150 mils

910.6 Liner Application

Application procedures shall conform to the recommendations of the liner manufacturer, including material handling, mixing, environmental controls during application, safety, and equipment. The liner application equipment shall be specifically designed to accurately apply the specified liner materials and shall be regularly maintained and proper working order. The liner material must be applied by a Certified Applicator of the liner manufacturer. The liner shall be applied to minimum thickness or as specified by the Engineer according to the Owner's requirements and manufacturer's recommendations. Temperature of the surface to be coated shall be maintained between 40 deg F and 120 deg F during application. Prior to and during application, care should be taken to avoid exposure of direct sunlight or other intense heat source to the structure being coated. Where varying surface temperatures do exist, care should be taken to apply the liner when the temperature is falling versus rising (later afternoon into evening versus early morning into afternoon).

910.7 Measurement

Manhole Rehabilitation shall be measured by vertical feet of manhole depth. Sewer Structure Rehabilitation (Noncircular Manholes, and Manholes Greater than 4 ft. in Diameter) shall be measured by the square feet of area to be rehabilitated.

910.8 Testing

Contractor shall perform testing for manhole rehabilitation on all manholes and shall consist of one of the following:

- 1. Perform an exfiltration test.
 - a. For manholes 0 to 6 foot deep, if water loss is 1-inch or less in five minutes, manhole passes the exfiltration test.
 - b. For manholes over 6 foot deep, if water loss is 1-inch or less plus 1/8-inch per additional foot of depth in five minutes, manhole passes the exfiltration test.
- 2. Perform a vacuum test conforming to SAWS Standard Specifications for Construction, Item 852.4.

If a manhole fails to pass above tests, it shall be repaired in accordance with the manufacturer's recommendation and re-tested. It shall not be accepted until it passes test. All repairs and retesting shall be at no additional cost to SAWS. If more than 20 percent (20%) of the manholes fail to pass any testing requirement, all manholes shall be vacuum tested at no additional cost to SAWS.

910.9 Warranty

Contractor shall warrant all work against defects in materials and workmanship for a period of two (2) years, unless otherwise noted, from the date of final acceptance of the projects. Applicator shall, within a reasonable time after receipt of written notice thereof, repair defects in material or workmanship which may develop during said two (2) year period, and any damage to other work caused by such defects or the repairing of same, at their own expense and without cost to the Owner.

910.10 Payment

This item shall be paid for by square foot at the unit price bid or by the vertical foot of depth for the unit price bid for "Manhole Rehabilitation." Payment shall be full compensation for materials, labor, equipment, tools, testing, and any incidentals necessary to complete the work including the bench, invert, and all interior surfaces of the manhole. Payment will be made under the following:

Pay Item (910.1): Manhole Rehabilitation (Standard Manholes 4 ft diameter) per Vertical Feet.

GENERAL SEWER NOTES

- I. All materials and construction procedures within the scope of this contract shall be approved by the San Antonio Water System (SAWS) and comply with the Plans, Specifications, General Conditions and with the following as applicable:
 - A. Current Texas Commission on Environmental Quality (TCEQ) "Design Criteria for Domestic Wastewater System", Texas Administrative Code (TAC) Title 30 Part I Chapter 217 and "Public Drinking Water", TAC Title 30 Part I Chapter 290,
 - B. Current Texas Department of Transportation (TXDOT) "Standard Specifications for Construction of Highways, Streets and Drainage."
 - C. Current San Antonio Water System "Standard Specifications for Water and Sanitary Sewer Construction."
 - D. Current City of San Antonio "Standard Specifications for Public Works Construction."
 - E. Current City of San Antonio "Utility Excavation Criteria Manual"
- 2. The Contractor is to make arrangements with the SAWS Construction Inspection
 Division at 233-3500 and provide notification procedures the contractor will use
 to notify affected home residents and/or property owners 48 hours prior to
 excavation.
- 3. The Contractor shall verify the exact location of underground utilities and drainage structures at least 48 hours prior to construction whether shown on plans or not. The following contact information are supplied for verification purposes:

 Utility Locate:

SAWS Utility Locates: 233-2010

SAWS Production Control Center: 233-2016

COSA Drainage: 207-8048

COSA Traffic Signal Operations: 207-7720

Texas State Wide One Call Locator: I-800-545-6005 or 811

Bexar Metropolitan Water District: 354-6536

- 4. The Contractor is responsible to ensure that no overflows or spillage of sewage occurs. Should this occur, the Contractor shall:
 - A. Identify the source of the spill and attempt to eliminate any additional spillage. Notify SAWS Construction Inspections Division at 233-3500.
 - B. Contain the spill in place and prevent contamination of streams.
 - C. Clean up the spill and dispose of contaminated materials.
 - D. Disinfect the area of the spill with a mixture of HTH chlorine and water.
 - E. Identify and train personnel responsible for spillage prevention and control.

 No separate measurement or payment shall be made for this work. All work shall be done according to guidelines set by the TCEQ and the SAWS.
- 5. The Contractor shall comply with City or other governing Municipality's tree ordinances when excavating near trees.
- 6. The Contractor shall not place any waste materials or spoils in the 100-year Flood Plain without first obtaining an approved Flood Plain Permit.
- 7. Service Lateral Connections:
 - A. The exact location and elevation of the service laterals and manholes shall be field verified by the Contractor. No separate pay item (NSPI).
 - B. A minimum of 3 feet of cover is to be maintained over the sanitary sewer laterals at subgrade.
 - C. All sewer lateral services for future connections as identified on the plans shall have a one way clean-out, capped and sealed.
 - D. The Contractor shall be responsible for maintaining continuous service during construction of the sewer work.(NSPI).
 - E. Laterals shall be constructed to serve all existing houses and platted vacant lots.
 - 8. Contractor shall coordinate with SAWS Construction Inspection Division at 233-3500 and/or SAWS Lift Stations Operations at least two weeks in advance of the shutdown of existing force mains of any size. The Contractor must also provide a sequence of work as related to the shutdown including any bypass pumping or pump and haul as required by SAWS. Pump and Haul will not be allowed over the Edwards Aquifer Recharge Zone.

- 9. Sewer lines located within or crossing the 5-year flood plain of a drainage way will be protected from inundation and stream velocities which could cause erosion and scouring of backfill. The trench must be capped with concrete to prevent scouring of backfill. The trench must be encased in concrete. All concrete shall have a minimum thickness of six inches.
- 10. Where water lines and new sewer lines are installed with a separation distance of less than nine feet (i.e., water lines crossing wastewater lines, water lines paralleling wastewater lines, or water lines next to manholes) the installation must meet the requirements of 30 TAC 217.53(d) (Pipe Design) and 30 TAC 290.44(e) (Water Distribution).
- II. Any work completed without prior written authorization which is not included in these plans and specifications will not be compensated by the San Antonio Water System.
- 12. The Contractor shall provide bypass pumping of sewage around each segment of pipe to be replaced, in accordance with SAWS Standard Specifications for Water and Sanitary Sewer Construction Item No.864, "Bypass Pumping" Payment for such work will be made under the bid item "Sanitary Sewer (Bypass Pumping" as per Standard Specifications for Water and Sanitary Sewer Construction Item No.864, "Bypass Pumping". The Contractor shall provide in writing a sequence of bypass pumping for review and approval by the Inspections department. Refer to the construction plans for the construction phasing and diversion requirements. The Contractor shall also provide a detailed sketch showing the location of bypass pumping equipment for each line segment(s) around which flows are being bypassed, along with the specification of pumping equipment, type, size, capacity and amount of pumps required to handle the peak wet weather flow.

	SUMMARY OF QUANTITIES		
ITEM#	DESCRIPTION	UNIT	TOTAL
103.3	Remove Sidewalks and Driveways	SF	25
203.1	Tack Coat	GAL	262
205.4	Hot Mix Asphaltic Pavement, Type D (2" Pavement Thickness)	SY	500
208.1	Salvaging, Hauling, and Stockpiling Reclaimable Asphaltic PVM'T (2" Depth)	SY	2610
502.1	Concrete Sidewalks	SY	50
502.2	Concrete Driveways	SY	50
511.3	Replacing w/ Hot Mix Asphaltic Concrete Pavement (2" Type D & 10" Type B)	SY	2263
511.3	Replacing w/ Hot Mix Asphaltic Concrete Pavement (3" Type C & 12" Type B)	SY	347
530.1	Barricades, Signs and Traffic Handling (per site)	EA	11
805	Traffic Control Plan (per line segment, if required)	EA	11
851	Adjusting Existing Manholes	EA	5
852.1	Sanitary Sewer Manhole (0'-6')	EA	6
852.3	Extra Depth Sewer Manhole (> 6)	VF	5
854	Sanitary Sewer Laterals	LF	10
854.1	Two-Way Sanitary Sewer Clean-out	EA	5
855	Reconstruction of Existing Manhole	EA	3
858	Concrete Encasement, Cradles, Saddles and Collars	CY	15
865	Pre-Television Inspection (8" through 15" Diameter)	LF	17,596
900.1	Pipe Bursting 8" Sanitary Sewer Pipe, all depths	LF	16,879
900.1	Pipe Bursting 10" Sanitary Sewer Pipe, all depths	LF	717
910.1	Manhole Rehabilitation (Standard Manholes 4 ft. in Diameter)	VF	575
1103.1	Point repairs for 8" Diameter, (all depth) including up to 10 LF of piping	EA	10
1103.1	Point repairs for 10" Diameter, (all depth) including up to 10 LF of piping	EA	1
1103.2	Extra length point repair, 8" Diameter, all depths	LF	5
1103.2	Extra length point repair, 10" Diameter, all depths	LF	5
1103.3	Obstruction Removal by Excavation, 8" Diameter, all depths	EA	5
1103.3	Obstruction Removal by Excavation, 10" Diameter, all depths	EA	1
1109	Service Reconnection (w/ open cut excavation, all depth, including up to 10' of lateral)	EA	403
4438	Flowable Fill	CY	25



REVISED DATE: AUGUST 7, 2013

JOB NO. 13-4811

2013 SMALL DIAMETER REHAB PROGRAM PROJECT 5

PROJECT SITE MAPS

DN: LM DR: LM CK: JC CK: SLG. BUK. MAP:

SAN ANTONIO WATER SYSTEM REPLACEMENT &

REPLACEMENT & SHEET
IMPROVEMENTS 2 OF 20

DATE

JULY 2013

NON-MANDATORY PRE-BID MEETING NOTES SAN ANTONIO WATER SYSTEM 2013 SMALL DIAMETER REHAB PROGRAM – PROJECT 2 SAWS JOB NO. 13-4811 SAWS SOLICITATION NO. B-13-044-MF

I. MEETING TIME/PLACE

- Tuesday, August 6, 2013, 10:00 a.m.
- SAWS, Customer Service Building, Tower II, 2nd Floor, Conference Room CR-C239

II. PROJECT DISCUSSION

- 1. Project Description:
 - a. Brief overview of project per contract documents was discussed.
 - b. It was mentioned there were lines segments located within the City of Terrell Hills.
 - c. It was mentioned MH's located within the TxDOT ROW.
- 2. Contract Duration of 180-days.
- 3. Addendum #1:
 - a. It was mentioned Addendum #1 had been posted.
- 4. Addendum #2:
 - a. It was mentioned Addendum #2 was forthcoming and bidders encouraged to check SAWS website.
- 5. It was mentioned Project would be TWDB funded, therefore TWDB forms included in contract documents are required to be completed and returned with the bid packet as identified on the bid checklist.
- 6. Questions can be submitted to Maria Franco until 4:00 p.m. on August 8, 2013.

III. QUESTIONS DISCUSSED AT PRE-BID MEETING (NOT RECEIVED IN WRITING BY SAWS)

- 1. How will the CoSA permits be handled?
 - a. There will be one CoSA permit issued for the project.