

**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 re-connect 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:
 - i. 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.
 - ii. 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 re-connect 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 re-connect 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 re-connect 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 re-connect trenches and entry/exit pits combined will require manhole to manhole restoration.

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

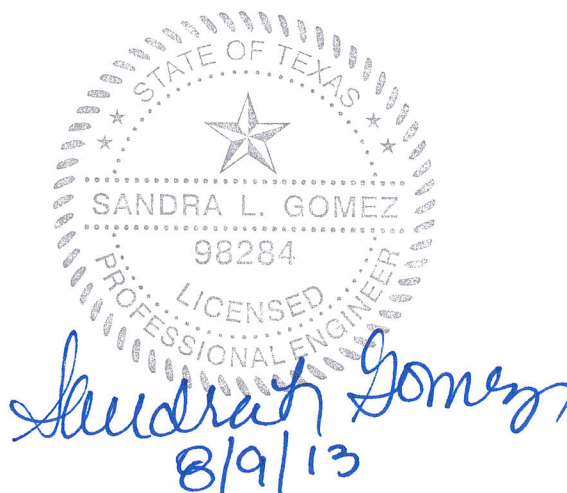
Each bidder is requested to acknowledge receipt of this Addendum No. 1 by his/her signature affixed hereto and to file same and attach with his/her bid.

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



Sandra L. Gomez
8/9/13

PROPOSAL

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

TO THE SAN ANTONIO WATER SYSTEM:

Pursuant to Instruction and Invitations to Bidders, the undersigned proposes to furnish all labor and materials as specified and perform the work required for the rehabilitation of sanitary sewer mains by pipe bursting pipe methods and required appurtenances for San Antonio Water System (SAWS) in accordance with the Plans and Specifications for the 2013 Small Diameter Rehab Program - Project 5, Job No. 13-4811. The undersigned acknowledges and understands that all projects are unspecified at the time of bidding, all quantities are estimated, and it is the intent of this proposal and quantities herein to establish a unit price for various line items to be paid the Contractor by SAWS on an annual basis. No change in the unit price will be made, regardless of the actual quantity of the item of work performed. The work will be performed for the following prices to wit:

Item No.	Description (Unit Price to be written in Words)	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 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	SY	2610	_____	_____

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Item No.	Description (Unit Price to be written in Words)	Unit	Quantity	Unit Price (Figures)	Total Price (Figures)
502.1	Concrete Sidewalks _____ Dollars and _____ Cents	SY	50	_____	_____
502.2	Concrete Driveways _____ Dollars and _____ Cents	SY	50	_____	_____
511.3	Replacing with Hot Mix Asphaltic Concrete Pavement (2" Type D & 10" Type B) _____ Dollars and _____ Cents	SY	2263	_____	_____
511.3	Replacing with Hot Mix Asphaltic Concrete Pavement (3" Type D & 12" Type C) _____ Dollars and _____ Cents	SY	347	_____	_____
530.1	Barricades, Signs and Traffic Handling _____ Dollars and _____ Cents	EA	11	_____	_____
805	Traffic Control Plan _____ Dollars and _____ Cents	EA	11	_____	_____
851	Adjusting Existing Manholes _____ Dollars and _____ Cents	EA	5	_____	_____
852.1	Sanitary Sewer Manhole (0'-6') _____ Dollars and _____ Cents	EA	6	_____	_____

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Item No.	Description (Unit Price to be written in Words)	Unit	Quantity	Unit Price (Figures)	Total Price (Figures)
852.3	Extra Depth Manholes (>6')				
	_____ Dollars				
	and _____ Cents	VF	5	_____	_____
854	Sanitary Sewer Laterals				
	_____ Dollars				
	and _____ Cents	LF	10	_____	_____
854.1	Two-Way Sanitary Sewer Clean-out				
	_____ Dollars				
	and _____ Cents	EA	5	_____	_____
855	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	_____	_____

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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	_____	_____
1103.1	Point repairs for 8" Diameter, (all depth) including up to 10 LF of piping _____ Dollars and _____ Cents	EA	10	_____	_____
1103.1	Point repairs for 10" Diameter, (all depth) including up to 10 LF of piping _____ Dollars and _____ Cents	EA	1	_____	_____
1103.2	Extra length point repair, 8" Diameter, all depths _____ Dollars and _____ Cents	LF	5	_____	_____
1103.2	Extra length point repair, 10" Diameter, all depths _____ Dollars and _____ Cents	LF	5	_____	_____
1103.3	Obstruction Removal by Excavation, 8" Diameter, all depths _____ Dollars and _____ Cents	EA	5	_____	_____
1103.3	Obstruction Removal by Excavation, 10" Diameter, all depths _____ Dollars and _____ Cents	EA	1	_____	_____
1109	Service Reconnection, (w/ open cut excavation, all depth, including up to 10 LF of lateral) _____ Dollars and _____ Cents	EA	403	_____	_____

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Item No.	Description (Unit Price to be written in Words)	Unit	Quantity	Unit Price (Figures)	Total Price (Figures)
4438	Flowable Fill				
	_____ Dollars				
	and _____ Cents	CY	25	_____	_____

Bid Summary

TOTAL BID AMOUNT: \$ _____

 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 **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

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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.

Repair/under-coat materials must be accepted and approved by the protective coating manufacturer 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 re-testing 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.

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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.

**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.