

ADDENDUM NO. 1
to
PLANS and SPECIFICATIONS
for

Medina River Sewer Outfall, Segment 4
SAWS Job No. 12-2504



Issue Date: March 2, 2012

**SAN ANTONIO WATER SYSTEM
MEDINA RIVER SEWER OUTFALL, SEGMENT 4
SAWS PROJECT # 12-2504
ADDENDUM NO. 1**

March 2, 2012

This addendum, applicable to the 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 Medina River Sewer Outfall (MRSO), Segment 4 (SAWS Job No. 12-2504).

2.0 Clarifications

A. The mandatory Pre-Bid Conference was held on February 24, 2012. Minutes from the meeting are attached and are considered part of this Addendum.

3.0 Specifications and Contract Documents

A. Invitation to Bidders – Bid will not be accepted from any company not represented at mandatory pre-bid meeting held on February 24, 2012 at 9:30 a.m. The following list is a record of the represented firms:

- Ledcor CMI, Inc.
- Don Kelly Construction
- KFW Surveying
- Holloman
- S.J. Louis Construction
- Merryman Excavation
- Hobas Pipe, USA
- BRH Garver Construction
- Metalink
- Flowtite
- Gajeske, Inc.
- Arias & Associates
- BorTunCo, LLC
- Mountain Cascade

B. Table of Contents, Page 1 -Remove and replace in its entirety.

4.0 Plans

A. Drawing No. D-12, Sheet No. 64 – Have revised SAWS Detail DD-853-01. Remove and Replace this sheet with the attached plan sheet.

5.0 Questions Received to Date

- A. Question: There is a note on sheet C-86/ sheet 27 stating that contractor is to secure a subcontractor to coordinate proper plugging of an existing water well. I spoke with JR of JR Water Well Service and also with Scott Sherrill (SAWS Ground Water Protection Division 233-3544) about plugging this well. JR informs me that he will need well log data in order to determine the value of plugging the well as it is in the Edwards Aquifer area. It could be an Edwards well although not likely. If it is an Edwards well, the price will be markedly greater than a simple sand well for the residence located nearby. The well location can be found on sheet 27 of the drawings at station 1170+15 give or take. I hope you can clarify what the contractor is required to do and or provide the well data logs.

Answer: Well data logs will be requested from UPRR.

- B. Question: What is the wage rate for the Medina River Sewer Outfall Segment 4 project? I cannot find this information in the front end documents or specs.

Answer: Wage rates were not included in the solicitation as this project will not be receiving any assistance from the Texas Water Development Board.

- C. Question: While working on the specifications for this project, I came across a missing section as compared to the table of contents. It is SMWB Reporting Requirements. Can you please email or fax this section to us, or let us know whether or not it is needed? Thank you.

Answer: The SMWB reporting requirements are outlined as part of the Good Faith Effort Plan. The Table of Contents have been corrected within this Addendum to remove the reference to a separate SMWB Reporting Requirements document.

- D. Question: Do the fiberglass manholes need to be backfilled with flowable fill? The detail D-12-A on sheet 64 (DD-853-01), does not indicate that flowable fill is required. The SAWS Detail DD-853-01 per the SAW's web site indicates that flowable fill is required backfill? Do the Base Tee risers need to be backfilled with flowable fill?

Answer: Will need to comply with SAWS specifications. See item 4.A of this addendum.

- E. Question: Our review of the revised solicitation is that the only substantive change is in Attachment A – Statement of Bidders Experience. Please confirm if we have missed any other substantive changes (ie not logistic changes associated with the rebid situation).

Answer: Changes include addendums items from the previous bid, project duration, and experience statement. It is the bidders responsibility to bid job with documents provided.

- F. Question: In Attachment A the Safety History requirement, previously item #2, has been removed as a requirement. Is the offer's Safety experience no longer a selection criterion? By way of background throughout the construction industry almost every Owner that takes the time to conduct a pre-qualification or responsive bidder type evaluation (as opposed to a straight low bid selection process) uses Safety as one of the evaluation criteria. Most Owners consider safety experience a critical element of performance. Please advise if an amendment will be forthcoming or this deletion was intentional?

Answer: SAWS will conduct a review for bid responsiveness of the lowest bidder. However, safety is not an evaluative factor since SAWS does not prequalify bidders on low bids. Therefore, no change was made in this Addendum.

- G. Question: At the meeting when the question was asked "how do we help ensure fewer bid rejections, are the contractors not providing some required information (sic)" we understood that all bids were being rejected if the low bidder had some sort of default in it's bid thus forcing SAWS to go to an entire re-solicitation. Please advise if we understood SAWS representatives correctly that if the low bid is determined defective then the project will be resolicited until a conforming low bid is received? If not please clarify what would lead to a resolicitation? This interpretation was new to us at the meeting. Most Owners we deal with reserve the right to reject any and all offers in any given solicitation however if the low bid is judged non-responsive then typically the 2nd low bid is then evaluated for responsiveness and an award made if that bid is found to comply with the requirements. Resolicitations generally only occur when the scope changes significantly, there are legitimate questions as to bid process fairness, or there are other issues affecting the Owner's best interests?

Answer: Pursuant to the Instructions to Bidders and Texas Local Government Code §252.043(f) SAWS reserves the right to reject any and all bids.

- H. Question: In Attachment A the specific project experience requirements was revised from “3 projects, 10,000 feet, 48 inch minimum diameter, wastewater pipeline with additional depth and siphon and tunnelling experience requirements (sic)” to “3 projects, 10,000 feet, 48 inch minimum diameter, municipal gravity sanitary sewer pipeline and additional siphon experience requirements (sic)”. This is a much more stringent requirement and one only speciality deep sewer pipeline contractors are likely to meet – large heavy civil contractors such as ourselves who would otherwise be more than capable of executing such work safely and cost-effectively may be excluded by qualification. As part of the previous solicitation, Ledcor provided extensive documentation as to its experience and capabilities both as part of the bid and as supplemental information to SAWS consultantants, Pape-Dawson and Cude Engineers. In light of the interpretation noted in 3 above we believe there is mutual interest in pre-determining whether Ledcor’s experience would be judged responsive in the event we were to again provide a low bid on this project. Ledcor has no interest in causing additional delay and cost to SAWS if it’s bid would not be accepted and that were to cause SAWS to re-issue the solicitation. Please advise if Ledcor’s qualifications, as previously submitted in support of the first solicitation, would be judged responsive in respect to the Attachment A requirements.

Answer: All bidders should review the project requirements for this solicitation and should submit the necessary documents accordingly.

- I. Question: Who owns / maintains the underground electrical line shown to be removed and replaced with no separate pay item on Plan Sheets 29-32?

Answer: The farmer that leases the land maintains it. UPRR owns land and electric line.

- J. Question: Is the underground electrical line shown to be removed and replaced with no separate pay item on Plan Sheets 29-32 in conduit or was it installed by means of direct burial?

Answer: Direct burial, it is used for the irrigation system.

- K. Question: Will a disruption in service be allowed for the underground electrical line shown to be removed and replaced with no separate pay item on Plan Sheets 29-32? If so, for what duration?

Answer: Contractor will need to coordinate with farmer to see when he needs the irrigation line and when he is growing his crops

- L. Question: Is any part of the underground electrical line shown to be removed and replaced with no separate pay item on Plan Sheets 29-32 encased with concrete?
- Answer: NO, it is not encased in concrete.*
- M. Question: Bid Item No. 35, contains a combined description for the removal and replacement of existing asphalt pavement and gravel roads. Can these descriptions and their respective quantities be bid separately under different item numbers?
- Answer: No, the description only includes gravel roads.*
- N. Question: Will tunnel liner plate be allowed for use at the TxDOT R.O.W. crossings in lieu of steel casing?
- Answer: Tunnel liner plate or steel pipe casing is acceptable underneath the TxDOT R.O.W. crossings.*
- O. Question: Should the exclusive use of steel casing be required at the TxDOT R.O.W. crossings, can separate bid items and their respective quantities be established on the bid form in lieu of the combined language (Steel Casing or Steel Liner Plate) currently provided?
- Answer: Tunnel liner plate or steel casing will be acceptable. A separate bid item will not be provided. It is up to the contractor to decide which method he elects to use.*
- P. Question: Please confirm that tunnel liner plate is allowed for use at the existing railroad crossings.
- Answer: Tunnel liner plate or steel casing will be an acceptable primary liner for the railroad crossing tunnels.*
- Q. Question: Per Plan Sheet 62, the annular space between the carrier pipe and the steel casing pipe is to be grouted. Should steel casing be utilized for any crossing, please confirm that casing spacers made of stainless steel are required in lieu of other types of casing spacers.
- Answer: Space between carrier pipe and steel casing is to be grouted. Steel casing can be used for any crossing, and regular steel casing spacers are acceptable.*
- R. Question: It was mentioned at the pre-bid meeting that an "Asbestos Survey" was already completed for the existing house shown on Plan Sheet 27.

What were the results of the survey? Can the survey be made available to the bidding Contractors?

Answer: The "Asbestos Survey" is attached.

- S. Question: Please confirm that the Contractor is required to perform all demolition and removal of the (3) buildings, (1) gas tank, (1) propane tank, (1) house shown on Sheet 27.

Answer: Contactor is responsible for all demolition and removal of the buildings, gas tank, propane tank and house.

- T. Question: The application for a City of San Antonio demolition permit is extensive and requires approvals from the Historic Preservation Department, City Public Service, and an Environmental Reviewer along with (9) other required items to be presented to the Development Services Department. Will the Owner and Engineer entertain an added demolition allowance or added bid item associated with the required removal of (3) buildings, (1) gas tank, (1) propane tank, (1) house, and the plugging of an existing well currently shown on Sheet 27?

Answer: See Bid Item 36.

- U. Question: For consistency amongst bidders, can a complete list of all permits and their respective fees to be paid by the Contractor for this project be provided?

Answer: The fees for each type of permit are shown below and are based on fee information received from each regulatory agency. The fees shown below may not reflect the final fee required to obtain the permit and may be subject to change. The Contractor is required to verify and/or obtain their own permitting fees. The list may not be all inclusive.

PERMIT/AUTHORIZATION/APPROVAL	AGENCY	FEE
TPDES - General permit Notice of Intent (NOI)	TCEQ	\$325
Storm Water Quality Site Development Permit	Bexar County	\$500
Flood Plain Development Permit	CoSA	N/A
Flood Plain Development Permit	Bexar County	\$50
Utility Installation Permit	Bexar County	\$35
Notice of Proposed Installation (utility)	TxDOT	N/A
TPDES - General permit Notice of Termination (NOT)	TCEQ	\$325

- V. Question: Please confirm that an Owner Representative's Field Office, per Specification 01500 Section 1.08.C is required on this project, as this requirement has been removed from previous segments of the overall program.
- Answer: *An Owner representative's field office is required as described in the Specification Section 01500.*
- W. Question: Please confirm that a variance will not be granted in regards to the in-place density and moisture content testing of (1) test per 12-inch lift at intervals of every 400 feet of excavated trench.
- Answer: *There will not be a variance for testing required in specifications.*
- X. Question: Is there any set of circumstances that could arise (contractor's experience, location of installation, etc.) in which a variance would be considered in regards to the compaction and moisture requirements of the secondary backfill as specified in Specification SS804, Section 3.08.C?
- Answer: *No variance will be given for compaction and moisture requirements.*
- Y. Question: In addition to the Upstream Siphon Structure #4 and Downstream Siphon Structure #4, please confirm that the use of the 5000 PSI concrete mix design as detailed in Section 2.05 of Specification 03300 applies to the following placement locations: Tee Base Encasement (Sheet 57, Detail 1), Manhole Drop Pipe Encasement (Sheet 57, Detail 4), & Manhole Top Slab (Sheet 57, Detail 2 &3).
- Answer: *All locations listed require 5000 PSI concrete.*
- Z. Question: Is the use of the 5000 PSI concrete mix design, as detailed in Section 2.05 of Specification 03300 required for the concrete encasement of the drop piping and top slab associated with the "Typical Fiberglass Manhole Detail (DD-853-01)" shown on Sheet No. 64?
- Answer: *5000 PSI concrete mix is required.*
- AA. Question: Please confirm that the Contractor is required to remove, stockpile, and replace 12 or 24-inches of topsoil (depending on location) from the entire width of the easement per Specification SS520, Section 2.05.A.
- Answer: *Contractor is required to remove, stockpile, and replace topsoil for the entire width of easement except for the location where topsoil is stockpiled.*

BB. Question: The Revegetation quantity of 172,072 SY associated with Bid Item No. 3 does not account for the entire width of the easement in regards to the removal, stockpiling, and replacing of 12 or 24-inches of topsoil as detailed in Specification SS520, Section 2.05.A. Will this quantity be adjusted to account for the entire width? How was the current bid quantity of 172,072 SY calculated?

Answer: The re-vegetation quantities are for reseeding and establishing vegetation only in the areas that will be reseeded per the native seed mixture plan sheets. For clarification the contractor shall reference the description of the Bid Item #3, Re-vegetation in the measurement and payment specification section 01025.

CC. Question: Do the existing silos on the Union Pacific Railroad property that are to be removed, as shown on Sheet 28, have any type of stored material inside? If so, what are their contents?

Answer: The silos will be empty when construction begins.

Addendum No. 1
Medina River Sewer Outfall, Segment 4
Saws Project # 12-2504
March 2, 2012

ACKNOWLEDGEMENT BY BIDDER

Each bidder is requested to acknowledge receipt of this Addendum No. 1 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. 1 along with the bid submitted herewith is in accordance with the information and stipulations set forth.

Date

Signature

END OF ADDENDUM NO. 1

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CLARIFICATIONS

LAND DEVELOPMENT ENVIRONMENTAL TRANSPORTATION WATER RESOURCES SURVEYING

PROJECT: San Antonio Water System **DATE:** 02/28/12
Medina River Sewer Outfall
Segment 4 Project
SAWS Job No. 12-2504
Solicitation No. B-12-017-DD

CONFERENCE LOCATION: SAWS – Tower I **CONFERENCE DATE:** 02/24/12
1st Floor Cafeteria 9:30 a.m.

PURPOSE OF MEETING: Mandatory Pre-Bid Meeting

ATTENDEES:
See Attached Sign In Sheet for Attendees

FROM: David M. Evans **PROJECT NO.:** 6866-00 (2.6)

CC:

DISCUSSION:

Introduction

- Jerry Berry with Pape-Dawson Engineers, Inc. introduced himself as the Design Consultant on the project. Jerry then introduced Patrick O'Connor of the San Antonio Water System (SAWS), who is the SAWS Project Manager for this project, along with Diana Dwyer (SAWS Contract Administration) and Fred Schwartz (SAWS Inspector). Jerry also introduced, Bobby Delgado (Cude Engineers, the Design Consultant and Field Observer on the project), Joe Molina (Pape-Dawson Engineers Field Project Manager on the project), and David Evans (Pape-Dawson). Jerry also reported that Pat Lewis (not in attendance) would also be a Field Observer on the project.
- Jerry indicated that since this was a mandatory Pre-Bid meeting, he stated that all in attendance must sign the "sign-in" sheet that was being circulated, in order to submit a Bid for the project, per the *Invitation to Bidders*.
- Jerry then turned the meeting over to Diana to discuss the requirements of the bidding process.

Bidding Process

- Diana reported that sealed bids will be received by SAWS Contract Administration Division, per the *Invitation to Bidders* until 10:00 a.m., March 7, 2012. If mailing a bid, contractors should make arrangements to ensure that their bid is received prior to the deadline. If delivering a bid, personally, via Fed Ex (or other courier service) they must also be delivered to SAWS Contract Administration Division by the deadline.

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- Diana reported that Texas Water Development Board (TWDB) does not fund this project; therefore no wage information would be necessary.
- Diana also reminded the contractor to be sure that they check the bids for the unit price extensions (both numeral and written and the extensions), and correct percentages, so that their bid won't be disqualified. She also suggested that they double-check the bid proposal prior to turning it in, as there are a lot of line items. Mobilization is to be no greater than 5%. The Bid Proposal should also contain the *signed Certification Page*.
- Diana reminded all in attendance to register on the SAWS website so that they are notified of all Addendums that are issued and any other related project documents. Acknowledgement of Addenda will be required.
- All technical questions, questions regarding this solicitation, or any additional information, should be submitted in writing via email to ddwyer@saws.org or by fax at 210-233-5218 to Diana W. Dwyer, Contract Administration, no later than 4:00 p.m. (CST) on February 28, 2012. Potential bidders or suppliers should not contact the design consultant or project engineer directly.
- Answers to the questions will be posted to the web site on March 1, 2012 as part of an Addendum.
- This project has an estimated cost of \$18,915,937.00, and is a 480-calendar day contract.
- A copy of the Conference Memo of today's meeting would be issued by Addendum so that everyone had the benefit of what was discussed today.
- Diana reported that there is a "Site Visit" scheduled immediately after this meeting, and that the Site Visit was not mandatory, and that no sign in sheet would be necessary.
- Diana reviewed the mandatory items to be submitted with the Bid Packet, which are shown on the *Bid Proposal Checklist* in the bidding documents. She requested that they utilize it.
- The SMWB goal for this project is 17%. Contractors should make every effort to meet this goal. For assistance in the certification process or in the efforts to meet this goal, contractors may contact Marisol Robles, SMWB Program Manager at 210-233-3420 up until the bid opening date. Contractors will be required to utilize the Subcontracting Payment and Utilization Reporting (S.P.U.R.) system for verifying payment to subcontractors as indicated on the GFEP.
- A sample Insurance Certificate or a letter from the insurance company providing coverage should be submitted with the contractor's bid package. In addition, the contractor must be 100% compliant on any and all other SAWS projects. For any contractor currently performing SAWS work, the insurance must be up to date. There is an increase of Umbrellas Liability to \$5 million.
- Diana indicated that the contractor would be required to submit the following with their Bid Tabulation (refer to Supplementary Conditions, page SS-1):
 - A complete financial statement prepared within the past 12 months, by an independent Certified Public Accountant.
 - An information packet showing company experience, organization and equipment.
 - A statement regarding ability to complete the project within the schedule taking into account existing commitments.

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- Diana asked that the bidders **PLEASE READ CAREFULLY AND PROVIDE PROJECTS THAT MATCH EXACTLY** as indicated in *Attachment A –Statement of Bidder's Experience* (found on sheet SCA-1 of the Bid Documents), as it has been modified from the previous solicitation in hopes of making it more user-friendly.
- Diana also requested that the bidders be sure to include *Attachment D – Geotechnical Data Report Acknowledgement Form* with their bid.
- Diana asked the bidders to please take the time to review the Instructions to Bidders, General Conditions and the Special Conditions and Supplementary Conditions.
- Diana asked if there were any questions about the Bidding Process at this time. Only minor questions about submittal issues.
- Diana turned the meeting back over to Jerry Berry to provide details of the project.

Program Overview

- 32 miles of sanitary sewer pipeline from the Dos Rios Water Recycling Center, westerly to southwest San Antonio, in the vicinity of US Hwy 90 and Montgomery Road (and extension of Hwy 211), south of US Hwy 90.
- Proposed alignment is north of the Medina River.
- Overall project was bid in six (6) segments.

Segment 4 Overview

- Segment 4 limits begin on the west side of Somerset Road and traverse westerly to the east side of Old Pearsall Road. A 24-inch segment traverses northeasterly to the existing Lift Station on Old Pearsall Road (LS #193). An 18-inch segment traverses northeasterly to the existing Lift Station on BNSF property (LS #219).
- Approximately 4 miles (21,187 LF) of sixty-six inch (66") diameter fiberglass sanitary sewer pipe.
- Approximately 2 miles (9,150 LF) of twenty-four inch (24") diameter PVC sanitary sewer pipe.
- Approximately 1 mile (5,408 LF) of eighteen-inch (18") diameter PVC sanitary sewer pipe.
- Approximately 764 LF of 66-inch bores under roadways, railroad and existing water lines (323 feet under IH-35, 211 feet under UPRR near IH-35, 155 feet under Old Pearsall Road), and 75 feet under existing water lines on the UPRR Intermodal property.
- Approximately 468 LF of 24-inch bores under railroads and roadways (338 feet under existing railroads (2), 110 feet under Old Pearsall Road, and 20 feet under an existing electrical vault near the existing Lift Station # 193).
- Approximately 379 LF of 18-inch bore under railroad, roadway bridge and existing water line (180 feet under a roadway overpass on the UPRR Intermodal property, 149 feet under a railroad, and 50 under existing waterlines).
- Average depth is approximately thirty-five feet (35'). Contractor must demonstrate experience with pipeline installations in these depths.
- 725 LF of 3-Barrel (12, 36 & 42-inch) siphon with 30-inch Air Jumper.
- The Engineers' Opinion of Probable Construction Cost is approximately \$18.9 million.

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Easement Status

- Access to all of the easements has been obtained.

Construction Management Team

- Pape-Dawson Engineers will be providing Construction Management services on the project.
- Jerry will be the Construction Manager for the project. Jerry indicated that Joe Molina, of Pape-Dawson Engineers, would be the Field Project Manager on the project. There will also be a Construction Observer (Pat Lewis) for this project.
- SAWS Inspectors (Fred Schwartz and Nathan Kalinec) will also be checking in on the project.

Other Projects

- Medina River Sewer Outfall (MRSO), Segment 3 – Bid October 2011. SAWS Board approval 11/1/2011. S J Louis is the contractor. Notice To Proceed (NTP) issued 1/12/12.
- MRSO Segment 5 – Bid December 15, 2011. SAWS Board approval on 2/7/12. S. J. Louis is the contractor. Awaiting NTP to be issued, possibly in mid-March.

Addendum No. 1

- Responses to questions
- Revisions to Drawings and Specifications
- Conference Memo of today's meeting, including a copy of the Sign-In sheet

Permits

- Special Condition 2 (shown on Sheet SC-1) requires Contractor to obtain all necessary permits and pay all associated fees in obtaining the permits. Some of the permits have been preliminary applied for, but will need to be re-submitted by the contractor, or SAWS, and won't be official until the contractor pays the associated fees.
- The City of San Antonio (CoSA) Tree Permit has been approved.
- The CoSA Flood Plain Development Permit has been renewed until 10/03/12.
- Status of remaining permits –
 - TPDES (NOI, etc.) are included in Storm Water Pollution Prevention Plan.
 - Bexar County Floodplain Development Permits (4 each) – Have been preliminary reviewed by BCDPW and await formal submittal request for the permit by the contractor.
 - Roadway crossing permits (3 each) – have been preliminary reviewed by TxDOT and await formal submittal request for the permit by SAWS, after the contractor submits their tunneling details to the design engineer.
 - Railroad crossing permits (4 each) – have been preliminary reviewed by UPRR and await formal submittal request by SAWS for the permit once the contractor submits their tunneling details to the design engineer.
 - Pape-Dawson will assist the contractor in coordinating with the agencies to obtain the remaining permits.

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General Requirements

- Work Area Limit
 - Section 01010, Paragraph 1.06.A defines the contractor's work area limits.
 - Contractor shall be confined to the easement limits.
 - Contractor will be required to install fence on easement limits if work outside of easement limits is performed after the first warning is issued.
 - Contractor to provide copies of any agreements outside of the easement areas with the landowners to the Construction Manager and SAWS, prior to working outside of the easement limits.
 - Jerry also reported that the contractor, prior to beginning construction, must submit a DVD video of the entire proposed pipeline alignment to document existing conditions to SAWS prior to mobilization.
- Survey
 - Section 01050 defines contractor's responsibilities for surveying on the project.
 - A Registered Professional Land Surveyor is required.
 - Control points have been provided along the proposed pipeline alignment. The contractor is responsible for all of his survey control to construct the project.
 - The contractor will be required to submit a report to Pape-Dawson that he verified the primary control points, and secondary control points set by the contractor's surveyor.
- QC/QA Testing
 - Section 01400 and individual specification sections define various QC/QA testing requirements.
 - Contractor provides Quality Control (QC) testing.
 - SAWS provides Quality Assurance (QA) testing.
 - Jerry also reported that the requirements for trench backfill material density testing are 1 test, per lift, for every 400 LF of trench backfill.
- Digital As Builts
 - Section 01720 defines the requirements of the Contractor to furnish Project Record Documents (As-Builts).
 - SAWS is currently using a new system to develop Project Record Documents on this project. The use of a Records Document Application (RDA) will be utilized on this project.
 - Digital drawings will be required on a monthly basis as a basis for payment.
 - Contractor to provide actual survey data after installation.
 - Contractor's surveyor will be required to provide actual field data (i.e. elevations of manhole inverts, top of manholes, etc.).
 - File requirements are provided in the referenced specification section.

Technical Requirements

- Specifications
 - SAWS Standard Specifications govern. See Special Conditions SC-4.0 (sheet SC-1) for web site locations, and downloads.
 - Supplementary Specification Sections amend those specifications.

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- **Compaction and Moisture Requirements**
 - The Compaction requirement is 98%.
 - The moisture requirement is +/- 2%.
 - No variances.
 - Contractor shall be responsible for making arrangements to provide the water for trench compaction/moisture.
- **Concrete**
 - Permeability Requirement is 1500 coulombs or less. Jerry indicated that this requirement is indicated in the Structural Notes on the Structural Sheet Details. Jerry also indicated that at least one concrete supplier in town is supplying this concrete requirements now, on the other MRSO projects. This requirement is for the siphon structures and manhole top slabs.
- **Stop Logs**
 - Section 15113 defines the requirements for the stop logs at the siphons.
 - The contractor only needs to provide the frames.
 - The stop logs are owned by SAWS, and are stored at the Dos Rios WRC.
- **Medio Creek Crossing**
 - Boring B-31
 - Gravel at the bottom of the trench
 - Water level rose above top of gravel after drilling
 - Thickness and elevation of gravel may vary

Tour

- Scheduled for immediately following today's meeting, for those that want to attend (not mandatory). Jerry asked who was interested in going on a tour of the project. No one present responded so the Tour was canceled.

Jerry asked if there were any questions from those in attendance. The following questions were presented:

1. Q: Since there has been several projects re-bid recently by SAWS, is there something the contractors are not providing?
A: Diana indicated that she was unsure as to what the issues were specifically. She explained that it is imperative that bidders complete the bid proposal to ensure that nothing is left blank, double-check extensions and mobilization percentage, as well as complete Attachment A, as requested.
2. Q: Were contractors disqualified due to their not having enough experience in their submittals?
A: Diana stated once again, that she was not sure, but requested that the contractors submit any concerns they have about this issue in writing. She recommended that they send an e-mail directly to Contracting Director, Phillip Campos, at pccampos@saws.org. *(Note: The email address provided by Diana at the Pre-Bid was incorrect. Please use the corrected email address in this document).*

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3. Q: Are there any differences in the plans/specs from MRSO - Segment 4 project that was bid previously?
A: Jerry reported that there were no major changes.

Patrick reported that vendors and materials that have been used on previous SAWS projects are approved. No new vendors, or materials, would be allowed unless SAWS were approved them previously. SAWS must approve them first.

Jerry asked that the bidders be sure to fill out all of the bid forms completely.

Diana again reminded everyone that all questions, even those asked during today's meeting should be sent in writing to Diana Dwyer's (SAWS Contracting) attention no later than 4:00 p.m. on February 28, 2012. Do not send them to the Project Manager (Patrick) or the Design Engineer.

As per the *Invitation to Bidders*, the following companies were in attendance at the Mandatory Pre-Bid Meeting and will be allowed to bid the project:

- Metalink
- LedCor, Inc.
- Merryman Excavation
- Don Kelly Construction
- HOBAS Pipe USA
- KFW Surveying
- Flowtite Pipe
- BRH-Garver
- Holloman Utilities
- Gajeske, Inc.
- Arias & Associates
- S. J. Louis Construction
- BorTunCo, LLC
- Mountain Cascade

The "Minutes of the Meeting" outlined herein reflect Pape-Dawson Engineers' understanding of what was discussed and presented at this meeting. The minutes will stand for the record unless comments are received in writing within (3) days of the date of these minutes.

END OF MEMO

Attachment

P:\68166\00\02.0) Project Management\2.6) Meetings\120224 Segment 4 Re Bid Pre-Bid Meeting\120224a1.doc

**SAN ANTONIO WATER SYSTEM
MEDINA RIVER SEWER OUTFALL
Segment 4 Project; SAWS Job No. 12-2504
Solicitation No. B-12-017-DD
February 24, 2012; 9:30 am
SAWS Tower I, 1st Floor Cafeteria
Purpose: Mandatory Pre-Bid Meeting**

NAME	COMPANY	PHONE#	FAX	EMAIL
Jerry Berry <i>JJB</i>	Pape-Dawson	(210) 375-9000	(210) 375-940	jberry@pape-dawson.com
David Evans <i>DE</i>	Pape-Dawson	(210) 375-9000	(210) 375-9040	devans@pape-dawson.com
Joe Molina <i>J.M.</i>	Pape-Dawson	(210) 375-9000	(210) 375-9040	jmolina@pape-dawson.com
Bobby Delgado <i>BD</i>	Cude Engineers	(210) 681-2951		bdelgado@mwcude.com
Mike Cude	Cude Engineers	(210) 681-2951		mwcude@mwcude.com
Fred Schwartz	SAWS	(210)-383-7371		fschwartz@SAWS.org
Patrick O'Connor <i>PO</i>	SAWS	(210) 233-3020	(210) 2335468	Patrick.OConnor@saws.org
Diana W. Dwyer <i>DWD</i>	SAWS	(210) 233-3372	(210) 233-5218	Diana.Dwyer@saws.org
Angie Gustafson	Metalink	512-689-6809		angie@metalinktx.com
Ken Davis	Ledcor	602-595-3017	602-595-31602	Ken.kershner@ledcor.com
Thomas MERRYMAN	MERRYMAN EXCAVATION	815-337-1700	815-337-1766	marc@merrymanexcavation.co
FRANK CRUSE	DON KELLY CONST.	406-585-5606	406-585-5611	FRANK@DONKELLYCONSTRUCTION.COM
Victor Rivera	HOBAS PIPE USA	713-907-4406	866-619-8983	vrivera@hobaspipe.com
JON GRAHAM	KFW SURVEYING	210-683-9500		JGRAHAM@KFWENGINEERS.COM
Roky Lorenz	Flowtite	817-829-4525		RLDREWZ@Flowtitepipe.com

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PLANS

MANHOLE SCHEDULE							
MATERIALS							
STATION	MANHOLE ID	FRP	FIBERGLASS	WATERTIGHT	ALTERNATE VENT	DROP *	BOLLARDS
1009+38.43	MH-202	X				X	X
1016+00	MH-203	X				X	X
1023+93.53	MH-204	X				X	X
1045+47.51	MH-207	X				X	X
1050+76.22	MH-208	X				XX	X
1060+76.22	MH-209	X				XX	
1068+64.49	MH-210	X				XX	
1077+80.91	MH-211	X				XX	
1084+97.20	MH-212	X				XX	X
1088+41.92 = 1+00	MH-213	X		X		X	
7+37.24	MH D2-22		X	X			X
15+00	MH D2-23		X	X			X
18+09.75	MH D2-24		X	X	X		
18+66.32	MH D2-25		X	X			
20+61.78	MH D2-26		X	X			
21+18.34	MH D2-27		X	X			
29+00	MH D2-28		X	X	X		
36+00	MH D2-29		X	X			
44+00	MH D2-30		X				
51+35.60	MH D2-31		X				
51+75.60	MH D2-32		X				
57+87.55	MH D2-33		X				
60+15.15	MH D2-34		X			X	
1088+81.92	MH-214	X		X			
1092+84.91	MH-215	X		X			X
1098+54.31 BACK - 1098+58.92 FWD	MH-216	X				XX	X
1106+45.59	MH-217	X				X	X
1109+07.41	MH-218	X					X
1110+18.98	MH-219	X					X
1112+48.98	MH-220	X					X
1114+38.98	MH-221	X				X	
1119+17.91 BACK 1118+80.57 FWD	MH-225	X					
1125+00	MH-226	X				XX	
1131+00	MH-227	X				XX	X
1137+00	MH-228	X				XX	X
1143+00	MH-229	X				XX	X
1149+00	MH-230	X				XX	X
1151+95.11	MH-231	X				X	
1159+50	MH-232	X					
1165+85.34	MH-233	X				X	

* DROP: X = 1 DROP, XX = 2 DROPS

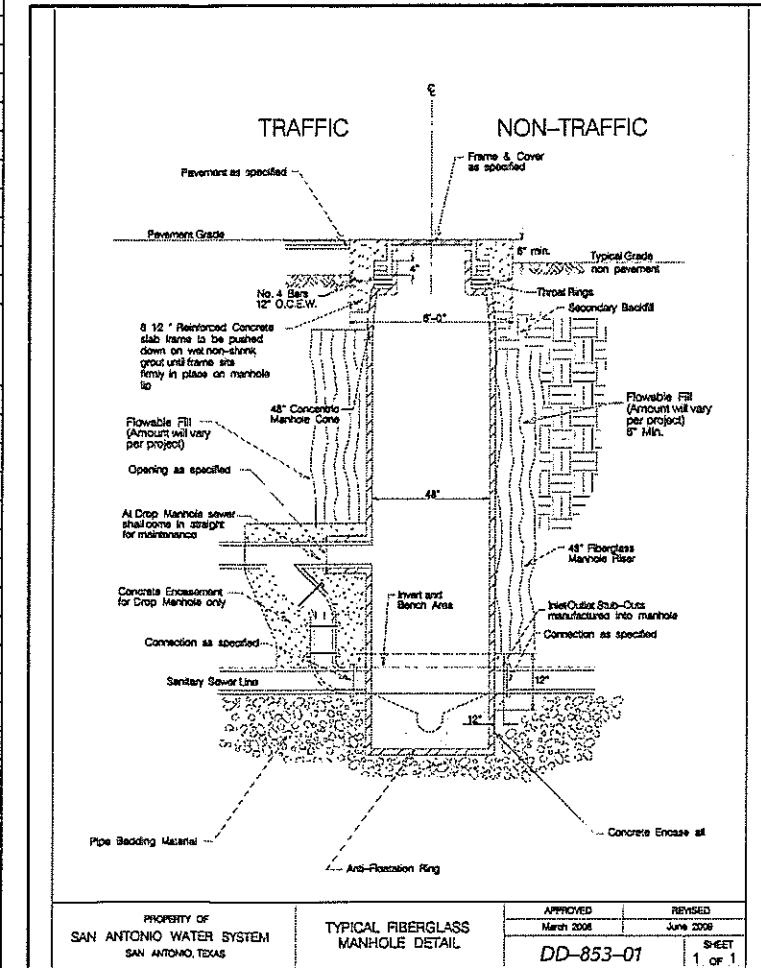
NOTE: AIR BYPASS MANHOLES ARE NOT INCLUDED IN MANHOLE SCHEDULE.

NOTE: ALL MANHOLES SHALL BE A VENTED MH RING & COVER UNLESS NOTED OTHERWISE ON THE MANHOLE SCHEDULE.

MANHOLE SCHEDULE							
MATERIALS							
STATION	MANHOLE ID	FRP	FIBERGLASS	WATERTIGHT	ALTERNATE VENT	DROP *	BOLLARDS
-0+07.26	MH D1-0		X				
2+00	MH D1-1		X				
8+00	MH D1-2		X				
15+00	MH D1-3		X				
21+00	MH D1-4		X				
27+58.30	MH D1-5		X				X
34+00	MH D1-6		X				X
39+00	MH D1-7		X	X			X
45+75.11	MH D1-8		X	X			
52+00	MH D1-9		X	X			
54+88.32	MH D1-10		X	X	X		
58+00	MH D1-11		X	X			
60+50	MH D1-12		X	X			X
68+00	MH D1-13		X	X			X
75+64.86 BACK - 77+21.86 FWD	MH D1-14		X	X	X		
79+66.21	MH D1-15		X	X			
85+00	MH D1-16		X	X			
89+96.53	MH D1-17		X	X			
93+61.38	MH D1-18		X	X	X	X	
0+37.72	MH D1A-1		X	X			
95+31.52	MH D1-20		X	X		X	X
96+87	MH D1-21		X	X			X
1172+00.00	MH-234	X				X	X
1177+82.26	MH-235	X				X	X
1180+93.72	MH-236	X				X	X
1183+35.64	MH-237	X				X	X
1184+49.28	MH-238	X				X	X
NOT USED	MH-239						
NOT USED	MH-240						
1199+37.16	MH-241	X				X	X
1209+02.93	MH-242	X					X
1210+33.60	MH-243	X				X	X
1218+33.60	MH-244	X				X	X
1227+51.29	MH-245	X				X	X
1229+56.15	MH-246	X				X	X
1229+96.15	MH-247	X				X	X

* DROP: X = 1 DROP, XX = 2 DROPS

NOTE: AIR BYPASS MANHOLES ARE NOT INCLUDED IN MANHOLE SCHEDULE.

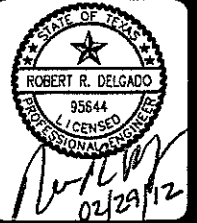


PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS	TYPICAL FIBERGLASS MANHOLE DETAIL	APPROVED March 2008	REVISED June 2008
		DD-853-01	
		1 SHEET OF 1	

TYPICAL FIBERGLASS MANHOLE DETAIL
N.T.S.

D-12
A

NO.	DATE	REVISION	APP.
1	10.17	ALIGNMENT	
2	10.17	ADDED NOTE	
3	11.29	ADDED DROP TO MH-235	
4	2.29	UPDATED SAWS DETAIL	



PAPE-DAWSON ENGINEERS
M.W. CUDE ENGINEERS, L.L.C.
10333 SANDRA ROAD
SAN ANTONIO, TEXAS 78250
TEL: 210.491.2051 • FAX: 210.491.2112
TYPE REGISTERED ENGINEERING PROFESSIONAL ENGINEER

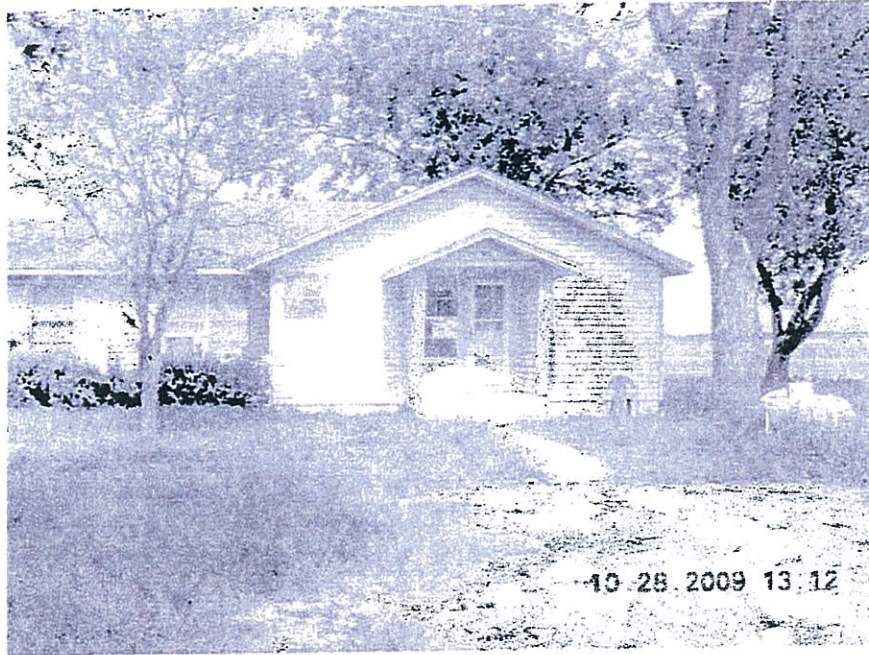
**SAN ANTONIO WATER SYSTEM
MEDINA RIVER SEWER OUTFALL PROJECT
SAWS JOB NO. 12-2504**

**MANHOLE SCHEDULE AND
MANHOLE DETAILS**

JOB NO.	6856-00
DATE	FEBRUARY 2010
DESIGNER	RRD
DRAWN	BMO
CHECKED	LJC
DRAWING No.	D-12
SHEET No.	64

ADDENDUM 1 ATTACHMENTS

LIMITED ASBESTOS INSPECTION



**7844 Old Pearsall Rd. #2
San Antonio, TX**

**for
Pape-Dawson Engineers
Mr. Phil Pearce**

by
AEHS, Inc.
4402 Center Gate
San Antonio, Texas 78217
(210) 656-9300
www.aehs-sa.com

ASBESTOS INSPECTION
7844 Old Pearsall Rd. #2
San Antonio, Texas
for
Pape-Dawson Engineers

The on-site consultation was performed by Matthew Bishop CHSP, under the overall direction of Ronald M. Bishop, MPH, CIH. Matthew Bishop is a Texas Department of State Health Services (TDSHS) licensed Asbestos Management Planner and Lead Risk Assessor. Ron Bishop is a TDSHS licensed Asbestos Consultant, Lead Project Designer, and Mold Consultant as well as a Certified Industrial Hygienist, Certified Safety Executive, Registered Sanitarian, Diplomate in Environmental Health, Registered Environmental Professional and Environmental Manager, and Green Consultant.

1.0. GENERAL.

1.1. Construction materials containing asbestos have been used extensively in buildings because it possesses excellent properties for fire-proofing, insulation, and condensation control. Asbestos may be found in: (1) cement products; (2) spray applied or trowel applied materials on ceiling, walls, and other surfaces; (3) insulation on pipes, boilers, tanks, ducts, and other equipment; (4) vinyl floor tiles; (5) roofing; (6) flooring coatings; and (7) other miscellaneous products.

1.2. Friable materials are those materials that when dry can be crumbled, pulverized, or reduced to powder by hand pressure. Material that contains more than one percent asbestos by weight is considered to be asbestos containing material. Some of these asbestos-containing building materials are not considered friable now, but could become friable if not properly managed and maintained under an asbestos management program.

1.3. The concern about exposure to asbestos in buildings is based on evidence linking various respiratory diseases with occupational exposure in the shipbuilding, mining, milling, and fabricating industries. The presence of asbestos in a building does not mean that there is a significant health risk to building occupants. As long as asbestos-containing materials remain in good condition and are not disturbed, exposure is unlikely. Through proper control of building operations and maintenance activities, disturbance or damage to asbestos-containing materials is minimized, thus limiting the building occupant's exposure to airborne asbestos fibers.

1.4. Building alterations and/or demolition require knowledge of what materials contain asbestos and if they will be removed or disturbed during the project. Under the Clean Air Act, EPA has issued a National Emission Standard for Asbestos (40 CFR 61.140 - 61.156). This

Standard regulates reporting requirements, work practices, waste disposal, and emissions from facility modification and/or demolition operations. The Standard applies only to materials containing more than one percent asbestos. The State of Texas has adopted a set of regulations (25 TAC 295.31 - 295.70) known as "Texas Asbestos Health Protection Rules" which govern asbestos removal, encapsulation, or enclosure, including licensing and regulation, in all buildings of public occupancy or access. Any disturbance or removal of ACBM in the building or facilities is subject to this Texas Statute.

2.0. BACKGROUND.

2.1. AEHS, Inc. was contacted by Mr. Phil Pearce, Pape-Dawson Engineers, concerning the need for an Asbestos Inspection at 7844 Old Pearsall Rd. #2, San Antonio, Texas.

2.2. The buildings of concern are a house and grain storage bins located on the Union Pacific property.

3.0. SCOPE OF WORK.

3.1. The inspection was performed on 28 October 2009 and consisted of visual assessments to determine the presence of suspect ACBM. Bulk samples of suspect ACBM (materials which possibly contain asbestos, as determined by an accredited EPA AHERA Building Inspector/Consultant) were collected. The visual inspection, bulk sampling, and inspection documentation was performed by Matthew Bishop, CHSP [Inspector and Management Planner (No. 205572)].

3.2. AEHS, Inc. is a TDSHS Licensed Asbestos Constant Agency (No.10-0335), PCM Laboratory (No. 30-0295), and an Asbestos Training Provider (No. 00-0068).

3.3. The specific objectives of the survey were to:

- Perform a visual inspection and physical assessment following the Asbestos Hazard Emergency Response Act (AHERA) protocol as a guideline to identify, quantify, and assess accessible friable and non-friable ACBM;
- Collect and analyze bulk samples of suspect material for asbestos content and identification by an American Industrial Hygiene Association Accredited Laboratory that is also licensed by the Texas Department of State Health Services;
- Ensure the technical quality of all work by using the AHERA protocol and a TDSHS licensed consultant and inspector for the inspection; and
- Issue a final report that includes findings, bulk sample locations, and confirmed asbestos-containing building materials.

4.0. DESCRIPTION.

4.1. The residence contains bedrooms, living room, kitchen, bath, hall and a laundry.

4.2. The two grain storage bins are metal construction without any suspect ACM.

5.0. INVESTIGATIVE METHODS.

5.1. Visual Inspection.

5.1.1. Building materials were inspected and assessed using the methods presented in the federal AHERA regulations (40 CFR, Part 763) as a guideline. The procedures mandated are considered the industry standard and are applied to all surveys performed by AEHS, Inc. The suspect ACBM consisted of the following: floor tile and mastic underneath, wallboard, float mud, ceiling paint stipple and cementitious water heater pipe.

5.1.2. No other suspect materials were visible.

5.2. Bulk Sampling.

5.2.1. Bulk samples of all homogeneous materials from identified functional spaces containing suspect ACBM were collected. A homogeneous material is defined as a surfacing material, thermal system insulation, or miscellaneous material that is uniform in use, color and texture. Examples of homogeneous materials include:

- Pipe insulation produced by the same manufacturer and installed during the same time period;
- Floor or ceiling tile of identical size, color and/or pattern;
- Sprayed-on acoustical ceiling materials located in contiguous areas; and
- Trowelled on plaster of same texture and location.

5.2.2. A functional space is defined as any spatially distinct unit within a building that contains identifiable populations of current or previous building occupants. Examples of functional spaces include:

- Office areas;
- Storage (warehousing) areas; and
- Living quarters.

The functional space concept is helpful in determining the use and occupancy of building areas containing confirmed ACBM. Knowing the types of occupants and their use of an area also may influence the selection of an asbestos management option and/or corrective action. If multiple corrective actions are necessary, the occupancy and use of individual

areas may also become important factors when establishing the priority, or ranking, of each corrective action.

5.2.3. Prior to obtaining the samples, all friable suspect material are sprayed with amended (surfactant added) water to minimize fiber release. Small pieces of the suspect material were sampled by cutting off a sufficient quantity of the wetted suspect material in an inconspicuous location and securing the sample in a plastic bag. Samples were extracted from the center of the wetted area. The tool used to collect the suspect sample was then cleaned to ensure no cross-contamination occurred between samples. A plastic bag was used to contain the samples of the suspect material and quickly sealed to prevent the escape of the material or the introduction of ACBM contamination from outside sources.

5.3. Bulk Sample Analysis.

5.3.1. All bulk samples collected during this survey were analyzed by Environmental Hazards Services, Inc.'s Laboratory in Richmond, Virginia. Environmental Hazards Services laboratory is accredited under the National Institute of Standards and Technology's National Voluntary Laboratory Accreditation Program (NVLAP) and the American Industrial Hygiene Association. Additionally, the laboratory is a TDSHS licensed (No. 30-0188) Asbestos Laboratory (Polarized Light Microscopy). Their address, telephone number, and quality assurance review are depicted on their laboratory reports.

5.3.2. All asbestos samples were analyzed using Polarized Light Microscopy/Dispersion Staining (PLM/DS) techniques in accordance with methodology approved by the U.S. Environmental Protection Agency (EPA), method number 600/R-93/116. The percentage of asbestos present in the samples was determined on the basis of a visual area estimation as set forth in 40 CFR Part 763, Appendix A, Subpart F, Section 1.2 and 1.7.2.4. The lower limit of reliable detection for asbestos using the PLM/DS method is approximately 1% by volume.

5.3.2.1. The Environmental Protection Agency considers materials with greater than one percent (>1%) asbestos content to be asbestos containing. Therefore, when asbestos containing building material (ACBM) appear in this report, it should be interpreted as meaning the sample(s) taken contained greater than (>1%) asbestos and is considered a regulated material. However, material that contains equal to or less than one percent is not considered to be asbestos containing material. If the results of sampling indicate that the asbestos containing material is a trace or up to 10% asbestos, the results must be verified by polarized light microscopy point counting or presumed to be asbestos. For this survey, AEHS personnel used their experience with similar materials.

5.3.2.2. When "No Asbestos Detected" (NAD) appears in this report, it should be interpreted as meaning no asbestos was observed in the sample material above the reliable limit of detection for the PLM/DS method.

5.3.2.3. The Texas Department of State Health Services requires a minimum of three samples to be collected from each homogeneous area. In order for a material to be

considered negative, all samples must be negative. On the other hand, if one of the three samples is positive, then the material is considered positive.

6.0. RESULTS OF INSPECTION.

6.1. A total of fifteen (15) samples were collected which resulted in eighteen (18) analysis (including the point counting). See Appendix A for a copy of the laboratory analysis.

6.2. Photographs are at Appendix B and Sketch at Appendix C.

6.3. The laboratory results indicated "NAD – No Asbestos Detected" for all submitted samples except the float mud which contained <1%Chrysotile Asbestos. The float mud was point counted in accordance with paragraph 5.3.2.1 above, with the result of 0.025% Chrysotile Asbestos; therefore, the float mud is considered not to contain asbestos.

6.4. The cementitious water heater pipe that goes thru the attic and roof is presumed ACM.

7.0. ASSESSMENT.

7.1. **Friable Asbestos Material.** None

7.2. **Non-Friable Materials.** Cementitious water heater pipe approximately 4 linear feet .

8.0. RECOMMENDATIONS.

8.1. Maintain a copy of this report with the project files.

8.2. The cementitious water heater pipe should be abated (removed) prior to demolition.

8.2.1. It must be abated by a TDSHS abatement contractor using licensed/registered supervisors and workers.

8.2.2. It must be transported by a TDSHS licensed asbestos transporter to a regulated landfill.

8.2.3. A TDSHS notification is required.

8.2.4. A project design by a TDSHS licensed asbestos consultant is not required.

8.2.5. Asbestos project management and air monitoring is required during the abatement.

9.0. COST ESTIMATES.

9.1. Pipe Removal, Transportation, and Disposal: \$750.00

9.2. TDSHS Notification Fee - \$100.00

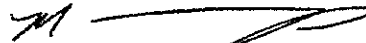
9.3. Project Management/Air Monitoring - \$200.00

DISCLAIMER

This report, which contains inspections/measurements for hazardous material is given for the sole benefit of the aforementioned client (s). The client expressly confirms their understanding that the conclusions/ recommendations stated in this report are limited to and based solely upon the scope of the assignment, and samples and field measurements taken. In addition, the client understands that any field observations contained herein reflect the conditions present on the date and time of inspection. No representations or warranties are made or may be implied as to the validity of their applicability to any other days or times.



Ronald M. Bishop, MPH, CIH
ESH Consultant
TDSHS Asbestos Consultant (10-5492)
10 November 2009



Matthew Bishop CHSP
TDSHS Asbestos Management Planner (205572)
10 November 2009



Appendix A
Laboratory Analysis

Fax:

Nov 4 2009 05:37pm P002/008



Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 09-10-03704

Client: AEHS
4402 Center Gate
San Antonio, TX 78217

Received Date: 10/30/2009
Analyzed Date: 11/03/2009
Reported Date: 11/04/2009

Project/Test Address: Pope-Dawson Ranch House; San Antonio, TX

Client Number:
45-5371

Laboratory Results

Fax Number:
210-656-8499 F

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
09-10-03704-001A	A1-PD	Linoleum	Tan Vinyl; Fib.	NAD	20% Cellulose 6% Fibrous Glass 75% Non-Fibrous
09-10-03704-001B	A1-PD	Mastic	Tan Adhes.; Gray Gran.	NAD	1% Cellulose 99% Non-Fibrous
09-10-03704-002A	A2-PD	Linoleum	Tan Vinyl; Fib.	NAD	20% Cellulose 6% Fibrous Glass 75% Non-Fibrous
09-10-03704-002B	A2-PD	Mastic	Tan Adhes.	NAD	1% Cellulose 99% Non-Fibrous
09-10-03704-003A	A3-PD	Linoleum	Tan Vinyl; Fib.	NAD	20% Cellulose 5% Fibrous Glass 75% Non-Fibrous

Fax:

Nov 4 2009 05:37pm P003/008

Environmental Hazards Services, L.L.C

Client Number: 45-6371
 Project/Test Address: Pope-Dawson Ranch House; San Antonio, TX

Report Number: -09-10-03704

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
09-10-03704-003B	A3-PD	Mastic	Tan Adhes.	NAD	1% Cellulose 99% Non-Fibrous
09-10-03704-004	A4-PD		Tan Fib.; White Paint	NAD	88% Cellulose 12% Non-Fibrous
09-10-03704-005	A5-PD		Tan Fib.; White Paint	NAD	88% Cellulose 12% Non-Fibrous
09-10-03704-006	A6-PD		Tan Fib.; White Paint	NAD	88% Cellulose 12% Non-Fibrous
09-10-03704-007	A7-PD		White Powder; Gran.; Tan Fib.	NAD	20% Cellulose 80% Non-Fibrous
09-10-03704-008	A8-PD		White Powder; Gran.; Tan Fib.	NAD	20% Cellulose 80% Non-Fibrous
09-10-03704-009	A9-PD		White Powder; Gran.; Tan Fib.	NAD	20% Cellulose 80% Non-Fibrous
09-10-03704-010	A10-PD		White Gran.	NAD	4% Cellulose 96% Non-Fibrous

Fax:

Nov 4 2009 05:37pm P004/008

Environmental Hazards Services, L.L.C

Client Number: 45-5371
Project/Test Address: Pape-Dawson Ranch House; San Antonio, TX

Report Number: 09-10-03704

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
09-10-03704-011	A11-PD		White Powder, Gran.; Tan Fib.	NAD	20% Cellulose 80% Non-Fibrous
09-10-03704-012	A12-PD		White Gran.	Trace <1% Chrysotile	1% Cellulose 99% Non-Fibrous
				Total Asbestos: Trace <1%	
09-10-03704-013	A13-PD		White Gran.	NAD	100% Non-Fibrous
09-10-03704-014	A14-PD		White Gran.	NAD	100% Non-Fibrous
09-10-03704-015	A15-PD		White Gran.	NAD	100% Non-Fibrous

Fax:

Nov 4 2009 05:38pm P005/008

Environmental Hazards Services, L.L.C

Client Number: 45-5371
 Project/Test Address: Pape-Dawson Ranch House; San
 Antonio, TX

Report Number: 09-10-03704

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
-------------------	----------------------	------------	-----------------------	----------	-----------------

QC Sample: 37-M2-1990-2
 QC Blank: SRM 1866 Fiberglass
 Reporting Limit: 1% Asbestos
 Method: EPA Method 800/R-93/118
 Analyst: Vickie Holmes

Reviewed By Authorized Signatory:



Howard Varner
 General Manager

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 800/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected



Environmental Hazards Services, LLC

www.ehsllab.com 7400 Whitepine Rd
 (800)347-0970 Richmond, VA
 (804)279-0087 (fax) 23237

Asbestos Chain-of-Custody

Page 1 of 2

09-10-03/04



Due Date:
 11/04/2009
 (Wednesday)

S PD

Company Name: **AEHS**

Address: **4402 Center Gate**

City/State/Zip: **San Antonio, TX 78217**

Phone: **(210)656-9300**

Fax: **(210)656-9499 F**

E-mail: _____

Acct Number: **45-5371**

Project Name/Testing Address: **PAPE-DIXON RANCH HOUSE**

City/State (required): **San Antonio, TX**

Collected by: **Matt Bondar**

Certificate Number: **205572**

Purchase Order Number: _____

Turn Around Times :

If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.

1-Day

2-Day

3-Day

Same Day (Must Call Ahead)

Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR			COMMENTS		
			PLM	PLM/PLM Count @5	PLM/PLM Count @10	PLM W/ Pencil	PCM	TEM Count/Min (Total)	TEM/ASBESTOS (AT)	Time On	Time Off	Flow Rate (L./min)		Total Time (minutes)	Volume (Total Liters)
1	A1-PD	10/29/09	X												Tap Sheet Floorings ↓ Ceiling Tile ↓ Wallboard ↓ Floor Mud
2	A2-PD														
3	A3-PD														
4	A4-PD														
5	A5-PD														
6	A6-PD														
7	A7-PD														
8	A8-PD														
9	A9-PD														
10	A10-PD	10/29/09	X												

Released by: **Matt Bondar**

Signature: *M*

Date/Time: **10/29/09**

Received by: *[Signature]*

Signature: *[Signature]*

Date/Time: **10/29/09**

Nov 4 2009 05:36pm P006/008

Fax:

Nov 4 2009 05:38pm P007008

Fax:



Environmental Hazards Services, LLC

www.ehsllab.com 7400 Whiteline Rd
 (800)347-4010 Richmond, VA
 (804)278-4997 (Fax) 23237

Asbestos Chain-of-Custody

Page 2 of 2

~ For Lab Use Only ~

Company Name: AEHS

Address: 4402 Center Gate

City/State/Zip: San Antonio, TX 78217

Phone: (210)656-9300

Fax: (210)656-8499 F

E-mail: _____

Acct. Number: 45-5371

Project Name/Testing Address: Pope - P. Maurice Ranch House

City/State (required): San Antonio, TX

Collected by: Matt Bishop

Certification Number: 205572

Purchase Order Number: _____

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

1 - Day
 2 - Day
 3 - Day
 Same Day (Must Call Ahead)
 Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS						AIR			COMMENTS			
			FLM	FLM/Min Count 100	FLM/Min Count 1000	FLM/1000	PCM	TEM Count/Min (100)	TEM/Min (100)	Time On	Time Off		Flow Rate (L/min)	Total Time (min)	Volume (Total Liters)
1	A11-PD	10/28/09	X												Floor Mud
2	A12-PD														↓
3	A13-PD														Ceiling Scrap
4	A14-PD														↓
5	A15-PD	10/28/09	X												
6															
7															
8															
9															
10															

Released by: Matt Bishop

Signature: TM

Date/Time: 10/28/09

Received by: TAL

Signature: _____

Date/Time: 10/20/09



Environmental Hazards Services, L.L.C.
 7469 Whitepine Rd
 Richmond, VA 23237
 Telephone: 800.347.4010

Asbestos 400 Point Count Analysis Report

Report Number: 09-11-00989

Client: AEHS
 4402 Center Gate
 San Antonio, TX 78217

Received Date: 11/09/2009
 Analyzed Date: 11/09/2009
 Reported Date: 11/10/2009

Project/Test Address: Dade - Dawson Ranch House; San Antonio, TX: EHS#
 09-10-03704

Client Number:
 45-5371

Laboratory Results

Fax Number:
 210-656-8499 F

Lab Sample Number	Client Sample Number	Lab Gross Description	% Asbestos	Narrative ID
09-11-00989-001	A10-PD	Off-White/White Brittle; Tan Fib.	NAD	
09-11-00989-002	A11-PD	Off-White/White Brittle; Tan Fib.	NAD	
09-11-00989-003	A12-PD	Off-White/White Brittle	<0.25 % Chrysotile	A12

Sample Narratives:

A12: Chrysotile fibers observed but did not fall under any counted points.

Environmental Hazards Services, L.L.C

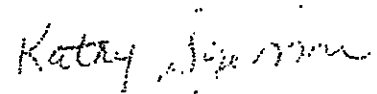
Client Number: 45-5371

Report Number: 09-11-00989

Project/Test Address: Dade - Dawson Ranch House; San Antonio, TX;
EHS# 09-10-03704

Lab Sample Number	Client Sample Number	Lab Gross Description	% Asbestos	Narrative ID
Reporting Limit:	0.25 % Asbestos			
Method:	EPA Method 600/R-93/116			
Analyst:	Mark Case			

Reviewed By Authorized Signatory:



Kathy Sizemore
Asbestos Supervisor

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714.

LEGEND NAD = No Asbestos Detected

Appendix B

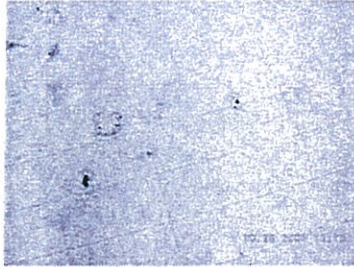
Photographs

7844 Old Pearsall Rd. #2

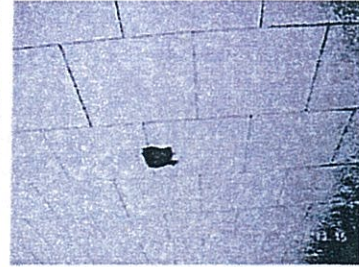
(Union Pacific)



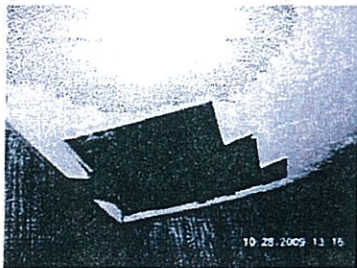
#1 Ranch House



#2 Tan Sheet Flooring



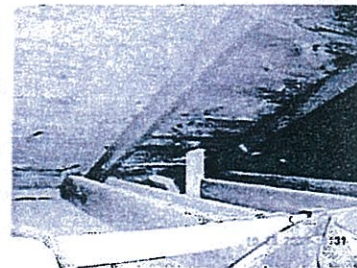
#3 Ceiling Tile



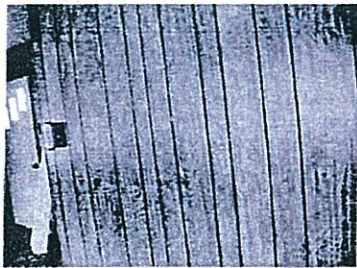
#4 Ceiling Tile



#5 Water Heater Exhaust



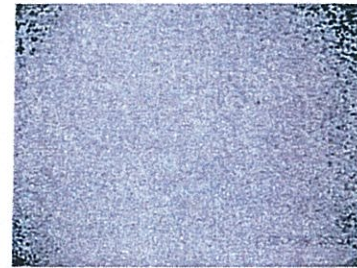
#6 Water Heater Exhaust



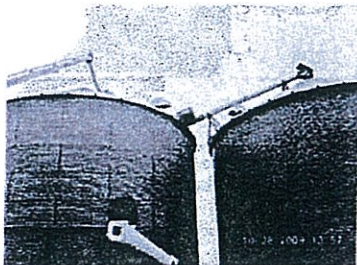
#7 Paneling



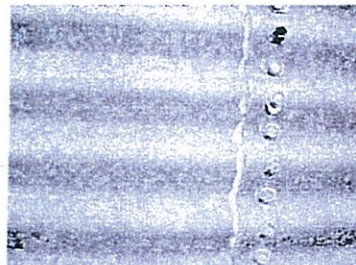
#8 Wallboard and Float Mud



#9 Ceiling Stipple



#10 Grain Silo



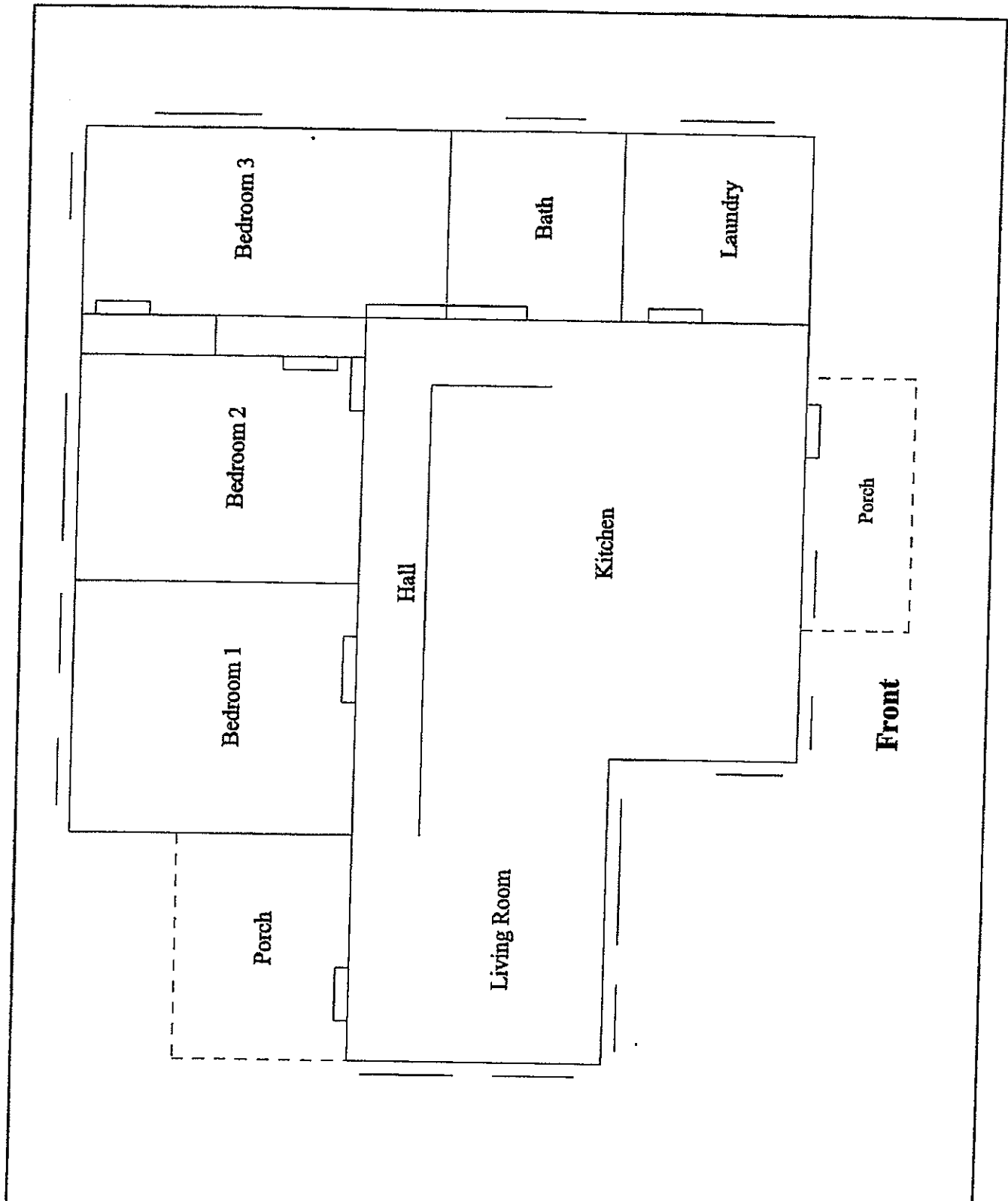
#11 Grain Silo Caulking



#12 Grain Silo Motor

Appendix C

Sketch



Case No. 09-143
 Date: October 28, 2009
 Not to scale
 Created with ArcView 3.2

Site Map for
7844 Old Pearsall Rd. #2
San Antonio, TX

AEHS, Inc.
 4402 Center Gate
 San Antonio, TX 78217
 (210) 656-9300
 www.aehs-sa.com

Sides A-D are located clockwise with Side A as the address or street side of the dwelling.