ADDENDUM NO. 1

PROJECT NAME: **GRASS HILL ELEVATED STORAGE TANK PAINTING AND REHABILITATION PROJECT – BID #2020-02**

DATE: February 14, 2020

This addendum should be included in and be considered part of the plans and specifications for the name of the project. The contractor shall be required to sign an acknowledgement of the receipt of this addendum and submit with their bid.

Addendum No. 1 is issued to notify, add, change and replace the following:

I. Pre-Bid Meeting:

1. Pre-Bid Meeting Agenda held on February 11, 2020 is attached.

II. General Questions/*Answers*:

1. Section 3.02C states steel/grit shot is the only acceptable method. Coal and Copper slag are far easier to use on a lattice legged tank and we would prefer to use them.

- *No. We are specifying the recycled steel grit for a better product and more productive method of removing the old coating. Coal and copper slag will not be acceptable on this project.*

2. Who will the 3rd party inspector be? If it is not yet known who has Leon Valley used in the past?

- *HOT Inspection Services*

3. What antennas are present on the tank? Who are their owners? We cannot be performing blasting operations with them present, and we cannot touch 3rdparty equipment. Leon Valley needs to have them removed prior to the start of work by the antenna owners. Then you will not be able to bid this project

- *The contractor is responsible for obtaining antenna information and coordinating antenna removal and replacement with the North Side Independent School.*

III. Changes:

1. Revised and Replaced Grass EST Specification, Page 142, section 2.04(B)(3), to remove reference to LOGO (not included with project) – see attachment.

IV. Clarifications:

1. Regarding the new conduit required for the City Antenna:

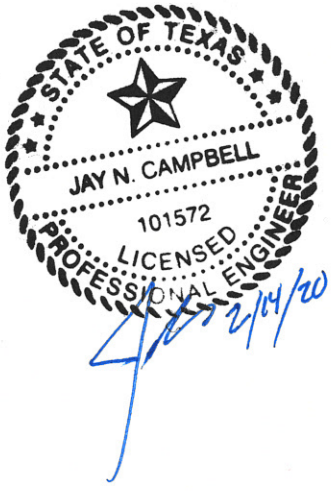
   Disconnect the wiring at the J-box located at the base of the ladder leg and remove both existing conduit and electrical wiring from the tank that runs up the leg ladder and demo. Install a new run of 1-inch diam. Conduit from the J-box at ground level up to the balcony platform and terminate at a new J-box. Pull a new run of electrical wiring through the conduit and terminate inside the J-box. This is all to be for future use by the City to install lights on the tank.

Attachments:

a) Addendum Acknowledgement Form (1 Page)
b) Pre-Bid Meeting Agenda (2 Pages)
c) Updated Section 2-Grass Hill EST Specification (2 Pages)

Total Pages Addendum No. 1: (7 Pages)

END OF ADDENDUM No. 1



Note: Addenda Acknowledgement Form for Addendum No. 1 is attached herein. This form must be signed and submitted with the bid package.

RECEIPT OF ADDENDUM NUMBER(S) **1** IS HEREBY ACKNOWLEDGED FOR PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF **GRASS HILL ELEVATED STORAGE TANK PAINTING AND REHABILITATION PROJECT – BID #2020-02**

FOR WHICH BIDS WILL BE PUBLICALLY OPENED ON **THURSDAY, FEBRUARY 20, 2020 AT 10:00 A.M.**

THIS ACKNOWLEDGEMENT MUST BE SIGNED AND RETURNED WITH THE BID PACKAGE.

Company Name: _____
Address: _____
City/State/Zip Code: _____
Date: _____

_____
Signature

_____
Print Name/Title

Grass Hill Elevated Storage Tank Painting and Rehabilitation Project
BID #2020-02
Pre-Bid Meeting Agenda
February 11, 2020
2:30 PM

Project Overview:

Base Bid:

1.1. **Base Bid**:

GRASS HILL ELEVATED STORAGE TANK PAINTING AND REHABILITATION
Conduct interior cleaning, coating, and general upgrades to the Grass Hill Elevated Storage Tank for the City of Leon Valley:

1. Furnish all materials, equipment, labor, superintendence and incidental work to abrasive blast per SSPC-SP6, clean, prime and coat with Containment and Dust Collection the **Exterior** of the existing 150,000-gallon EST, all appendages, ladder, vent, hatch, railing, tank piping, valves, etc., as indicated on the drawings and specifications **part 2.04.A** and **part 3.07** except where specifically covered by other bid items.
2. Furnish all materials, equipment, labor, superintendence and incidental work to spot blast for inspection and identification of repairs, abrasive blast per SSPC-SP10, clean, prime, stripe coat and coat with Dehumidification the **Interior** of the existing 150,000-gallon EST, all appendages, ladder, vent, hatch, weir box, etc., as indicated on the drawings and specifications **part 2.04.B and part 3,06**, except where specifically covered by other bid items.
3. Furnish all materials, equipment, labor, superintendence and incidental work to **Dehumidify** the interior of the existing 150,000-gallon EST, during surface preparation and coating, including hoses, filters, etc., as indicated on the drawings and specifications **part 3.06,** except where specifically covered by other bid items.
4. Furnish all materials, equipment, labor, superintendence and incidental work to provide **Containment and Dust Collection** as indicated on the drawings and specifications **part 3.07,** except where specifically covered by other bid items.
5. Furnish all materials, equipment, labor, superintendence and incidental work to perform **General Repairs**; grinding, welding and general work to repair corrosion related surfaces, exterior ladder replacement, balcony mid-railing modifications and repositioning electrical conduit and obstacles preventing safe use and rendering all OSHA Compliant as indicated on the drawings and specifications**,** except where specifically covered by other bid items.

6. Furnish all materials, equipment, labor, superintendence and incidental work to install a 20”Ø AWWA approved aluminum **Roof Vent**, including a new weld-on C.S. flanged neck to accommodate the bolt on installation of the new aluminum vent, as indicated on the drawings and specifications except where specifically covered by other bid items. **Provide drawing with P.E. seal for submittal.**
7. Furnish all materials, equipment, labor, superintendence and incidental work to perform **Interior and Exterior ladder replacement**, balcony mid-railing modifications and rendering all OSHA Compliant as indicated on the drawings and specifications**,** except where specifically covered by other bid items.
8. Furnish all materials, equipment, labor, superintendence and incidental work to install a **New Riser Manway** 18”x24” oval or 24” diameter AWWA D100 approved and TCEQ compliant as indicated on the drawings and specifications**,** except where specifically covered by other bid items.
9. Furnish all materials, equipment, labor, superintendence and incidental work to perform **Caulking** and or **Seam Sealing** work to seams and areas as deemed necessary, as indicated on the drawings and specifications **part 3.01.A.2,** except where specifically covered by other bid items.
10. Furnish all materials, equipment, labor, superintendence and incidental work to perform **removing and reinstalling electrical conduit and antennas** as needed for the tank rehabilitation.

General Discussion:

- Access to the site will be coordinated with the City.
- Some of the bid items require a drawing with a Texas PE Seal for submittals.
- Engineers Opinion of Probable Construction Cost Estimate is provided on the Bid Advertisement, Base Bid plus Additive Alternate: $326,000.
- Coordination with NISD regarding the removal and reinstallation of the existing antennas.
- All technical questions/comments must be submitted to Byron Sanderfer, P.E., City Engineer at BSANDERFER@LNVINC.COM
- Addendums will be posted to the City of Leon Valley website: http://www.leonvalleytexas.gov/government/finance/purchasing.php and on Public Purchase at www.publicpurchase.com

Important Dates:

- Thursday, February 20, 2020
  - Bids are due to the City of Leon Valley, Purchasing Agent at 6400 El Verde, Leon Valley, Texas 78238 **by 10:00 AM CST** and will be opened publicly and read aloud at approximately **10:00 AM CST.**
  - Each bid must be accompanied by a cashier’s check, certified check, or bid bond in an amount not less than **5%** of the total bid price
- Substantial Completion is within 90 Calendar Days from Notice to Proceed.
- Liquidated Damages: $500.00 for each calendar day over the allotted time.

a. Remove and legally dispose of the contaminated soil and place an Owner approved topsoil and ground cover over the abated area or pave the site with asphalt.

b. Post public notice of contaminated common areas.

1.07 PRODUCT DELIVERY, STORAGE & HANDLING

A. All materials shall be brought to the jobsite and identifiable by MTR's, certification reports and or batch numbers. The coatings shall be in the original sealed containers from the Manufacturer. Within 48 hours of coating delivery to the job site, the CONTRACTOR shall record the delivered material and the batch number stamped on each coating container and maintains the record in the daily log for examination by the INSPECTOR AND ENGINEER. Minimum information required will include: date of delivery to job site, name and signature of superintendent recording the data, list of certification reports, MTR's and batch number including corresponding coating identification, date of manufacture and volume of each container. They shall not be used until the INSPECTOR OR ENGINEER has inspected the contents. Manufacturer's Material Safety Data Sheets (MSDS) for all coating products used on the jobsite shall be submitted to the OWNER at the preconstruction conference or prior to commencing work. Materials exceeding storage life recommended by the manufacturer shall be rejected.

B. All coatings and paints shall be stored in enclosed structures to protect them from weather and excessive heat or cold. Flammable coatings and paints must be stored to conform to City, County, State and Federal safety codes for flammable coating or paint materials. At all times coatings and paints shall be protected from freezing.

PART 2 – COATING MATERIALS

2.01 ACCEPTABLE MANUFACTURERS

A. The paint and paint products used for this project shall be manufactured by The Tnemec Corporation. No other paint manufacturer will be allowed for use on this project.

2.02 GENERAL REQUIREMENTS

A. All materials shall be lead-free as defined by the Consumer Product Safety Act, Part 1303. Additionally, all materials shall be free of other heavy metals such as chrome, mercury and cadmium.

B. All materials for the interior wetted portion of the tank shall meet the requirements of ANSI/NSF Standard 61 for potable water contact.

C. No coating submitted or used on this project shall have a VOC (Volatile Organic Content) in excess of 340 grams/liter or 2.8 lbs./gal.

2.03 MATERIAL PREPARATION

A. Mix and thin materials according to manufacturer's latest printed instructions.

B. Do not use materials beyond manufacturer's recommended shelf life.

C. Do not use mixed materials beyond manufacturer's recommended pot life.

2.04 COATING SYSTEM

A. Tank Exterior Coating System – Zinc/Epoxy/Urethane System

1. **Weld Preparation**: Weld flux and spatter shall be removed by power tool cleaning. Sharp projections shall be ground to a smooth contour. All welds shall be ground to a smooth contour as per NACE Standard SP0178, Designation D.

2. **Surface Preparation:** SSPC-SP6/NACE 3 Commercial Blast Cleaning. An angular profile of 1.5 to 2.5 mils as per ASTM D 4417, Method C or NACE Standard SP0287 is required.

3. **Coating System:**

1st Coat: Tnemec Series 94-H20 Tnemec-Zinc applied at 2.5 to 3.5 dry mils.

2nd Coat: Tnemec Series 66 Hi-Build Epoxoline applied at 4.0 to 6.0 dry mils. (Two coats may be required if applied by roller.)

3rd Coat: Tnemec Series 1074U Endura Shield II (Color-TBD) applied at 2.0 to 3.0 dry mils.

B. Tank Interior Coating System – Zinc/Epoxy System

1. **Weld Preparation**: Weld flux and spatter shall be removed by power tool cleaning. Sharp projections shall be ground to a smooth contour. All welds shall be ground to a smooth contour as per NACE Standard SP0178, Designation D.

2. **Surface Preparation:** SSPC-SP10 Near-White Metal Blast Cleaning. Anchor profile shall be 1.5 to 2.5 mils as per ASTM D 4417, Method C or NACE Standard SPO287 is required.

3. **Coating System:**

1st Coat: Tnemec Series 94-H20 Hydro-Zinc applied at 2.5 to 3.5 dry mils. Thin only as instructed in manufacturers data sheet.

Stripe Coat: Tnemec Series N140F – 15BL Tank White Pota-Pox Plus applied by brush and scrubbed into all weld seams. In addition to weld seams, all edges, corners, bolts, pits shall receive a stripe coat. This shall be a separate step. The 2nd coat or subsequent coat shall not be applied until the recoat time has been achieved.

2nd Coat: Tnemec Series N140F – 1255 Beige Pota-Pox Plus applied at 6.0 to 8.0 dry mils. Thin only as instructed in manufacturers data sheets.

3rd Coat: Tnemec Series N140F – 15BL Tank White Pota-Pox Plus applied at 6.0 to 8.0 dry mils. Thin only as instructed in manufacturers data sheets.

Total dry film thickness on all surfaces shall be a minimum of 14.5 mils and maximum 18.5 mils per SSPC-PA 2 dry film inspection standards, with exception as noted in this specification.

For cold weather applications, Series 44-710 Urethane Accelerator may be added to Series 94-H20 at the rate specified on the Series 44-710 product data sheet. Series 44-710 Accelerator must be used with Series 94-H20 if the surface temperature is 35°F to 60°F and 20% to 40% relative humidity.