

ADDENDUM NO. 1

PROJECT: Contract 124 – 500,000 Gallon WST Repainting (Ground Level)
BID DATE/TIME: August 1, 2024, at 2:00pm
OWNER: Town of Gainesboro
DATE: July 29, 2024
PROJECT NO.: 24181
NO. OF PAGES: 10

THIS ADDENDUM IS ISSUED TO CLARIFY QUESTIONS RAISED BY BIDDERS AND TO MAKE MODIFICATIONS TO THE SPECIFICATION, PLANS, AND BID DOCUMENTS FOR THIS PROJECT. THE FOLLOWING CHANGES WILL BECOME A PART OF THE CONTRACT DOCUMENTS FOR THIS PROJECT. ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE BID FORM.

Clarifications:

1. For the “Johnson Tank” (steel tank to be repainted) GPS coordinates are: 36.370596°, -85.650548°. The access road to this tank is called Brown Lane. The “Smith Tank” (prestressed concrete tank to be washed out) GPS coordinates are: 36.361020°, -85.659450°. The access road to this tank is called Herman Smith Lane.
2. A test report dated 08/01/2008 using EPA Method 6010B noted a level of 135 mg/kg lead on the exterior of the Johnson Tank.
3. Containment must be provided for the exterior sandblasting. CONTRACTOR shall provide chain of custody information on the disposal of abated lead paint.
4. There is no pre-bid for this project.
5. CONTRACTOR is responsible for bacteriological testing and sampling.
6. If there are any paint products listed that are no longer available, CONTRACTOR shall utilize newest TNEMEC approved coating for that specific product.

Bid Schedule:

1. See attached BID PROPOSAL (BP 124 - 1 of 5 thru BP 124 - 5 of 5) that shall replace those in the current contract documents.

Technical Specifications:

1. A specification for an Electric Mixing System is included with this Addendum.

THIS ADDENDUM CONSISTS OF TEN (10) PAGES

**** END OF ADDENDUM ****

JAMES C. HAILEY & COMPANY
Consulting Engineers
360 Cool Springs Blvd., Suite 100
Franklin, TN 37067-7216
www.jchengr.com

**BID PROPOSAL
CONTRACT 124
500,000 GALLON WATER STORAGE TANK REPAINTING (GROUND LEVEL)**

Proposal of _____ hereinafter called "**BIDDER**"), organized and existing under the laws of the State of _____, doing business as _____.*(Insert "a corporation", "an individual" or "a partnership")

To Town of Gainesboro, 402 E. Hull Avenue, Gainesboro, Tennessee 38562 (hereinafter called "**OWNER**").

In compliance with your Advertisement for Bids, **BIDDER** hereby proposes to perform all **WORK** for the construction of Water Works Additions described as **CONTRACT 124 – 500,000 GALLON WATER STORAGE TANK REPAINTING (GROUND LEVEL)** in strict accordance with the **CONTRACT DOCUMENTS**, within the time set forth therein, and at the prices stated below.

By submission of this **BID**, each **BIDDER** certifies, and in the case of joint **BID** each party thereto certifies as to his own organization, that this **BID** has been arrived at independently, without consultation, communication or agreement to any matter relating to this **BID** with any other **BIDDER** or with any competitor.

BIDDER hereby agrees to commence work under this contract on or before a date to be specified in the **NOTICE TO PROCEED** and to fully complete the **PROJECT** within 120 consecutive calendar days thereafter. **BIDDER** further agrees to pay as liquidated damages, the sum of \$500.00 for each consecutive calendar day thereafter as provided in Section 15 of the General Conditions.

BIDDER acknowledges receipt of the following **ADDENDUM**:

TO BID, GENERAL CONTRACTORS MUST OBTAIN BID DOCUMENTS FROM ENGINEER.

**ADDENDUM NO. 1
 BID SCHEDULE
 CONTRACT 124 – 500,000 WATER STORAGE TANK REPAINTING (GROUND LEVEL)**

BASE BID – JOHNSON TANK

ITEM NO.	DESCRIPTION	QUANTITY & UNITS	WORDS	UNIT PRICES	FIGURES	TOTAL AMOUNT
1	FURNISH & INSTALL SURFACE PREPARATION (FULL BLAST) AND REPAINTING OF TANK INTERIOR	1 LUMP SUM				
2	FURNISH & INSTALL SURFACE PREPARATION (FULL BLAST) AND REPAINTING OF TANK EXTERIOR – INCLUDING LEAD ABATEMENT	1 LUMP SUM				
3	FURNISH & INSTALL SEAM SEALING	1 LUMP SUM				
4	FURNISH & INSTALL TANK DISINFECTION	1 LUMP SUM				
5	FURNISH & INSTALL SITE CLEAN-UP AND RESTORATION	1 LUMP SUM				
6	FURNISH & INSTALL SCREEN AT ROOF VENT AND SECURE	1 LUMP SUM				
7	FURNISH & INSTALL REPLACEMENT "CONFINED ENTRY" PLACARDS	1 LUMP SUM				
8	FURNISH & INSTALL REMOVE AND REAPPLY GROUT AROUND PERIMETER OF TANK (ON CURB) TO DRAW WATER AWAY FROM THE TANK	1 LUMP SUM				
TOTAL BASE BID						(FIGURES)
			(WORDS)			

TO BID, GENERAL CONTRACTORS MUST OBTAIN BID DOCUMENTS FROM ENGINEER.

**ADDENDUM NO. 1
 BID SCHEDULE
 CONTRACT 124 – 500,000 WATER STORAGE TANK REPAINTING (GROUND LEVEL)**

ADDITIVE ALTERNATE NO. 1 – JOHNSON TANK

ITEM NO.	DESCRIPTION	QUANTITY & UNITS	UNIT PRICES		TOTAL AMOUNT
			WORDS	FIGURES	
1	FURNISH & INSTALL TANK LOGO (TO MATCH EXISTING)	1 LUMP SUM			
2	FURNISH & INSTALL ELECTRIC TANK MIXING SYSTEM	1 LUMP SUM			
TOTAL ADD ALT NO. 1				(WORDS)	(FIGURES)

ADDITIVE ALTERNATE NO. 2 – SMITH TANK

ITEM NO.	DESCRIPTION	QUANTITY & UNITS	UNIT PRICES		TOTAL AMOUNT
			WORDS	FIGURES	
1	FURNISH & INSTALL WASHOUT & CLEANOUT OF ADDITIONAL (PRESTRESSED CONCRETE) WATER STORAGE TANK	1 LUMP SUM			
2	FURNISH & INSTALL REPLACEMENT OVERFLOW VENT SCREENS	1 LUMP SUM			
3	FURNISH & INSTALL REPLACEMENT MANWAY DOOR GASKETT	1 LUMP SUM			
4	FURNISH & INSTALL "CONFINED ENTRY" PLACARDS	1 LUMP SUM			
TOTAL ADD ALT NO. 2				(WORDS)	(FIGURES)

TO BID, GENERAL CONTRACTORS MUST OBTAIN BID DOCUMENTS FROM ENGINEER.

ADJUSTMENT ITEMS**

For changing quantities of work items from those indicated by the contract drawings upon written instruction from the ENGINEER, the following Unit Prices shall prevail:

- 1. Pit Filling with Filler/Surfacers (Sq. In.) \$ _____
- 2. Pit Welding (Sq. In.) \$ _____
- 3. Weld Repairs (L. F.) \$ _____

****If ENGINEER suspects unbalanced bidding, BID may be rejected.**

TO BID, GENERAL CONTRACTORS MUST OBTAIN BID DOCUMENTS FROM ENGINEER.

Amounts are to be shown in both words and figures. In case of discrepancy the amount shown in words will govern. In the event any Total Amount for Each Item does not equal the product of the unit quantity and the unit price, the respective Total Amount for Each Item shall be corrected to equal the product of the unit quantity and the unit price. The amount of the **Total Bid** shall be the sum of the Total Amount column (as corrected if applicable), which shall be the sum of the product of each unit quantity and each corresponding unit price.

The above prices shall include all labor, materials, equipment, bailing, shoring, removal, overhead, profit, insurance, etc., to cover the finished works of the kinds called for.

BIDDER understands that the **OWNER** reserves the right to reject any or all **BIDS** and to waive any informalities in the **BIDDING**.

The **BIDDER** agrees that this **BID** shall be good and may not be withdrawn for a period of sixty (60) calendar days after the scheduled closing time for receiving **BIDS**.

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to T.C.A. 12-12-106.

Upon receipt of written notice of the acceptance of this **BID**, **BIDDER** will execute the formal Contract attached within ten (10) days and deliver a Surety Bond or Bonds required by the General Conditions. The **BID security** (5% OF BID) attached in the sum of

_____ DOLLARS
(Words)
_____)
Figures

is to become the property of the **OWNER** in the event the **CONTRACT** and Bond are not executed within the time above set forth as liquidated damages for the delay and additional expense to the **OWNER** caused thereby.

Respectfully Submitted,

BY: _____

Title

Business Address

(Seal - If Bid is by corporation)

ATTEST _____

05- SPECIAL ACCESSORIES

B – RESERVOIR ELECTRICAL MIXING SYSTEM

01. GENERAL

1.1 Equipment Overview

- A. These specifications provide the requirements to furnish, install and place into operation a potable water tank mixer at Johnson Tank.

1.2 References

- A. Occupational Safety and Health Administration, OSHA
- B. Department of Transportation, DOT
- C. NSF /ANSI Standard 61
- D. Underwriters Laboratories Inc., UL 508

1.3 Quality Assurance

- A. Continuous Operation Equipment: The mixer shall operate continuously, all day and all night, using 120 VAC as the power source.
- B. No Visual Defects: The mixer shall have no visual defects, and shall have high quality welds, assembly, and corrosion resistant finish.
- C. Qualified US Manufacturer: The manufacturer of the mixer shall have extensive experience in the production of such equipment, and the equipment shall be manufactured in the continental United States.
- D. Factory Startup Services: Startup services shall be available, but not included in the bid.
- E. Warranty: The mixer shall be warranted to be free of defects in materials and workmanship for a period of five (5) years. This equipment warranty would run directly from the manufacturer of the equipment to the owner. The equipment warranty would not be part of the contract or any required bond.

1.4 Submittals

- A. The awarded Bidder shall provide one (1) PDF copy of the following documents;
 - 1. A qualification statement demonstrating compliance with Section 1.3 C.
 - 2. Shop drawings for the mixer.
 - 3. Manufacturer's literature, illustrations and specification sheets.
- B. Final submittals shall include one (1) PDF copy and three (3) hard copies of the following documents.
 - 1. A complete installation, operation and maintenance manual.

05- SPECIAL ACCESSORIES

B – RESERVOIR ELECTRICAL MIXING SYSTEM

02. PRODUCT SPECIFICATIONS

2.1 Manufacturer

- A. Specified Equipment: The mixer shall be Grid Bee GS-9 potable tank mixer as manufactured by Medora Corporation, Inc. of Dickinson, ND, or be a pre-approved alternative.
- B. Pre-approved Alternative(s): Alternatives to the specified equipment will be considered on the following basis only:
 - 1. Ten (10) days before bid. To offer equipment as a pre-approved alternative, written application from the alternative supplier shall be made to the Engineer at least 10 days in advance of the bid opening.
 - 2. No material difference in quality of equipment or in vendor support. The application should include:
 - a. A brief description of how the offered alternative does or does not meet each of the specifications in this document.
 - b. An analysis of how acceptance of the alternative equipment would likely affect the overall water quality goals of the project.
 - c. A statement of the science and support background of the supplier of the alternative equipment, so that the benefits and costs of the alternative equipment to the Owner can be estimated by the Engineer.
 - 3. Five (5) days' notice to bidders. If the alternative equipment is accepted by the Engineer, an informational addendum to these specifications shall be distributed by the Engineer to plan holders at least five (5) days in advance of the bid opening.

2.2 Performance and Features

- A. Number of Units Required: To meet the project objectives, the following number of machines is required.

Qty	Model	Tank or Reservoir
1	GridBee GS-9 potable tank mixer or approved equal	Johnson Water Storage Tank

An unobstructed hatch opening of at least 12 inches in diameter (31cm) round is required for installation of the mixer.

05- SPECIAL ACCESSORIES

B – RESERVOIR ELECTRICAL MIXING SYSTEM

- B. Required Flow Rating: Upon request, the manufacturer shall provide Computational Fluid Dynamics modeling supporting the performance of the mixer, with water of 1.0000 specific gravity and similar volumetric properties to the listed tank or reservoir.
- C. Complete Mix: The manufacturer guarantees that the subject tank will be completely mixed by the mixer. In continuous operation of the mixer:
- (1) at least once per 24 hours all water temperatures within the tank shall converge to within 0.8 degrees C, and
 - (2) at least once per 72 hours all chlorine concentrations within the tank shall converge to within 0.18 mg/l.
- D. Continuous Operation with 120VAC Power Supply: The mixer shall operate continuously during day and night while connected to electric grid power.
- E. Stainless Steel Construction: The mixer shall be constructed primarily of Type 316 stainless steel metal for strength and superior corrosion resistance.
- F. Motor: The mixer shall be mechanically operated by a submersible motor that meets the following criteria.
1. Direct Drive, with no gearbox and no lubrication maintenance required.
 2. Designed for submersible operation.
 3. Designed for Continuous Operation without overheating or compromising motor life expectancy.
 4. 120 VAC power source shall be supplied by others and not the mixer manufacturer.
- G. Electrical Control Box. The mixer equipment shall be supplied with a control box capable of disconnecting 120 VAC outgoing power to the mixer equipment and meeting the following criteria:
1. NEMA 4X enclosure shall be provided with protection against condensation and moisture in a marine environment.
 2. Control Box shall be UL 508 Listed for sound electrical design and safety.
 3. Control Box shall include exterior mounted HOA switch, definite purpose contactor for mixer control, exterior mounted run indicator light, grounding lug, 120 VAC standard three-prong male molded plug, and locking latch for security.
 4. Control Box shall include a 4-20 mA current transducer providing analog output for motor current allowing for monitoring proper operation. Control Box shall include a 24 VDC relay to allow for remote on and off control of the mixer. Integration of 4-20 mA output and remote on/off relay into site PLC/RTU shall be provided by others and not by the mixer equipment manufacture.

05- SPECIAL ACCESSORIES

B – RESERVOIR ELECTRICAL MIXING SYSTEM

5. Control Box requires a 120 VAC power source and minimum 20 Amp rated service located near the final placement of the Control Box. SCADA and control functions of the control box require 24 VDC incoming power for automatic operation and 4-20 mA current transducer. The 120 VAC and 24 VDC power source shall be supplied.
- H. Low Elevation Intake: The mixer shall be supplied with an intake capable of being positioned at the lowest elevation of the tank or reservoir floor. The intake level shall bring water into the mixer at horizontal layer within 6 inches (15 cm) of the tank or reservoir floor.
- J. The complete mixing system shall be NSF / ANSI Standard 61 and NSF Annex G listed for safe contact with potable water.
- K. Maintenance Requirements: The mixer shall operate normally with the following maintenance features.
 1. No scheduled lubrication is required of any system components including motor.
 2. No spare parts shall be required to be kept on hand.

03. EXECUTION

3.1 Contractor Installation

- i. Installation, startup, and on-site water testing shall be provided by others and not the factory equipment manufacturer.
- ii. Comply with all OSHA safety regulations for installation.