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October 6, 2017

Project No: 100211.10

**ADDENDUM NO. 1
TO THE CONTRACT DOCUMENTS AND DRAWINGS**

**For the construction of the
2017 USDA Water System Improvements
Contract 1 – County Road 24 Pump Station Upgrade**

To All Planholders:

The following changes, additions, and/or deletions are hereby made a part of the Contract Documents and Drawings for the **2017 USDA Water System Improvements Contract 1 – County Road 24 Pump Station Upgrade** for the Cleburne County Water Authority as fully and completely as if the same were set forth therein:

EJCDC C-800, Page 4 of 13

Contractor's Pollution Liability Insurance is not required

SPECIFICATIONS

Section 11205, Page 1 & 2

Replace Pages 1 & 2 with the attached Pages 1 & 2

DRAWINGS

Sheet M 1.0

- Suction side reducer shall be 12" x 10" instead of a 12" x 8"
- Discharge Pump Head will be supplied with a 250 lb Bolt Pattern Flange, from the factory.

Sheet M 1.1

- Can Flange Detail diameter shall be 19.25" instead of 15.25"

2017 USDA Water System Improvements
Contract 1 – County Road 24 Pump Station Upgrade
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All Bidders shall acknowledge receipt and acceptance of the Addendum with the Bid Package. Proposals submitted without acknowledgement or without this Addendum will be considered informal.

Constantine Engineering,



Evan Morgan, P. E.
AL PE No. 32785

Receipt acknowledged and conditions agreed to this _____ day of _____, 2017.

Bidder

By

**SECTION 11205
VERTICAL TURBINE PUMPS
(SUCTION CAN TYPE)**

PART 1 GENERAL

1.01 WORK INCLUDED

- A. This Section covers the Work necessary for furnishing three (3) with a 4th spare can type vertical turbine pumps, complete. The pumps shall alternate and operate in a duty/standby configuration. Pump supplier shall coordinate control panel requirements with electrical drawings and specifications.

1.02 DELIVERY

- A. All equipment shall be delivered factory assembled to the designated site. Delivery for all equipment shall occur within fourteen-sixteen (14-16) weeks of approved shop drawings.

1.03 WARRANTY

- A. All equipment shall be warranted for parts and labor for a period equal to eighteen (18) months from delivery or twelve (12) months from startup, whichever is sooner.

1.04 DEFINITIONS

- A. Total Head: Total head shall be the distance from the suction water level to the centerline of the pump discharge flange plus the pressure in feet measured at the discharge flange. The manufacturer shall add all line losses from the pump entrance to the discharge flange.
- B. Overall Efficiency: Overall efficiency shall include motor, pump, connecting shaft, and piping between water level and discharge flange.

PART 2 PRODUCTS

2.01 PUMP AND MOTOR ASSEMBLY DESCRIPTION

- A. The pump shall be of the vertical turbine type conforming to AWWA E101, except as herein modified. The pump assemblies shall be as manufactured by Goulds, or Equal. All pump assemblies shall be factory assembled and checked before shipping to the job site for installation by a general Contractor. The Bidder shall submit with his bid complete pump data sheets similar to that included at the end of this Section.
- B. All pump components shall be compatible with pumping finished potable water with a chlorine residual of 4 PPM or less.
- C. Minimum Requirements:

VERTICAL TURBINE PUMPS

1. Guaranteed Performance: 1 Pump shall operate at 1400 gpm at 155 psi, 2 pumps shall operate at 2800 gpm at 230 psi with minimum efficiency of eighty-two (82%) percent.
2. Speed: One thousand eight-hundred (1,800) rpm maximum.
3. Line Shaft Type: Open AISI 410 SS in not over 10 foot lengths with steel couplings.
4. Pump Shaft Material: ANSI 410 SS.
5. Pump Bearing Material: Bronze B505-C84400.
6. Impellers: 316 SS, Keyed semi-open or enclosed design and dynamically balanced.
7. Bowls: Vitreous enameled cast iron
8. Column Diameter: 8 inch
9. Column Wall Thickness: 0.3220 inch
10. Bowl Shaft Material: 416SS
11. Head Type: T-head cast iron 150lb flange and base plate
12. Shaft Seal: Stuffing Box with graphite packing
13. Stuffing Box: Cast-iron with six (6) packing rings, bronze bearing, cast-iron split gland, and bronze seal ring.
14. Head Shaft Coupling: Two (2) piece head shaft coupled above stuffing box.
15. Anchor Bolts: Stainless steel, sized as required.
16. CAN: Fab Steel, 20 inch diameter 15 ft. long
17. Drive Motor
 - A. The motors shall be designed, manufactured, and tested in accordance with the latest, revised edition of NEMA MG 1. The motor shall be standard energy efficient type, and shall conform to the following:
 1. General Description:
 - a. Type: Inverter duty, variable speed
 - b. Horsepower: As required by the driven equipment (estimated 250 HP). The connected load shall not exceed the motor nameplate horsepower rating at any head capacity point from zero (0) to maximum pump output.

SECTION 11205-2 (Addendum No. 1)