ADDENDUM NO. 1

This Addendum consists of the following **CHANGES TO THE BID DOCUMENTS FOR OFFICIAL NOTICE 35-2013**:

1. **PLEASE SEE THE RESPONSES BELOW TO THE REQUEST FOR INFORMATION SUBMITTED:**

QUESTION #1:

- **RFI QUESTION:** The existing pipe drawings show straightening vanes in the discharge pipe. Are new straightening vanes required (currently not shown)? If so, please provide a detail.

RESPONSE #1:

- Pipe straightening vanes are not required with the electromagnetic flowmeter being specified.

QUESTION #2:

- **RFI QUESTION:** There is an existing 4" CWS pipe connecting to the old 42" discharge pipe near the exterior wall. This is not shown on the new piping layout drawings. Is the 4" pipe to be connected to the new discharge?

RESPONSE #2:

- The 4" piping shall be connected to the discharge piping similar to that of the present configuration (centerline of discharge).

QUESTION #3:

- **RFI QUESTION:** The demolition drawings call for the old pump base to be removed to the floor and a new pump base provided. There are no structural/rebar for this new pump base; please provide.

RESPONSE #3:

- The Contractor shall design & submit the reinforced concrete pump foundation detail as a shop drawing submittal for MWW review.

QUESTION #4:

- **RFI QUESTION:** Will an American-Marsh pump be allowed as an "approved equal" for this project?

RESPONSE #4:

- An "approved equal" would need to satisfy the requirements stated in the specifications and in the Equipment Questionnaire; that is a minimum of 5 years of

experience and 3 successfully completed projects with the manufacture of "such equipment" – in this case bottom-suction, side-discharge, horizontal split-case pumps of the specified rated head & capacity.

To clarify what was stated at the Pre-Bid Meeting, the Equipment Questionnaire must be filled out completely or the bid will be considered NON-responsive. The Questionnaire is not an automatic pre-approval of the submitted equipment, nor is it a waiver from the specifications. The purpose of the form is for the CITY to verify that the proposed manufacturer/vendor has demonstrated a proven track record of successful installations that met the specifications and delivery dates. Three (3) installations of successful start-up and delivery of a bottom-suction, side discharge pump of the specified size must be able to be verifiable by the CITY; therefore, the Contractor is cautioned to be sure of the track record of the submitted manufacturer.

QUESTION #5:

- **RFI QUESTION:** The separation chamber for the vacuum priming unit is called out as having a carbon steel receiver. After visiting the jobsite we have concerns about using a carbon steel receiver on your application. Although the cost will be more and the lead time will be longer, could a stainless steel construction receiver be used?

RESPONSE #5:

- A stainless steel receiver may be used in lieu of a carbon steel receiver.

QUESTION #6:

- **RFI QUESTION:** Due to design changes associated with EISA (Energy Independence and Security Act), the epoxy encapsulated motors previously obtained cannot be provided. Best we could do would be TEFC motors; therefore, we can only offer a TEFC motor on this unit.

RESPONSE #6:

- A TEFC motor may be used on the unit.

QUESTION #7:

- **RFI QUESTION:** In Section 15500, Part 2, it lists the pump efficiency at 87%. Can a pump with an efficiency of 86% be used if a motor with a high enough efficiency is used that will meet the wire to water efficiency of 81%?

RESPONSE #7:

- This will be determined during the submittal process.

QUESTION #8:

- **RFI QUESTION:** In Section 15500, Part 2, it lists the requirements for the hydrostatic test pressures. Could it be clarified that the hydrostatic test shall be a dual stage test with the suction chamber and discharge chamber separated by means of a sealed cylinder? Each chamber would be individually tested. Since there is a vacuum priming system installed, it is assumed that the suction

side of the pump is under suction lift, thus the suction shall be tested at 50psi for 5 minutes. The discharge chamber shall be tested at 1.75 times the rate point head for 5 minutes.

RESPONSE #8:

- Procedure will be reviewed during the submittal process.

QUESTION #9:

- **RFI QUESTION:** In Section 15600, Paragraph 1.02, the specification states that the casing shall have a thickness suitable for the maximum working pressure of 250psi. The shutoff head/maximum pressure for this pump selection is 345 feet which equates to 150psi. This head is well within the maximum allowable working pressure of 200psi of the pump being proposed. Could the language be changed to: "Pump casing shall be made of high grade cast iron conforming to the requirements of ASTM A48, Class 30 with a minimum thickness to allow for a working pressure of 200psi"?

RESPONSE #9:

- Language will stand as is – "…suitable for the maximum working pressure of 250psi".

QUESTION #10:

- **RFI QUESTION:** Also in Paragraph 15600 it specifies that the pump is to be of a single volute design. Is this true?

RESPONSE #10:

- No. The pump is to be of a double volute design.

QUESTION #11:

- **RFI QUESTION**: In Section 15600, Paragraph 1.06, the specification calls for a packing box to contain a deep bore allowing for 6 packing rings; later in the paragraph it states that the packing shall not consist of less than two rings inside and three rings outside of the lantern rings which would be a total of 5 packing rings. Please clarify the number of packing rings required.

RESPONSE #11:

- See Question #12 Response.

QUESTION #12:

- RFI QUESTION: In Section 15600, Paragraph 1.08, the specification gives the requirements for a mechanical seal assembly but as referenced in the comment above the specification also calls out packing. Please clarify as to which sealing method is to be used for this project. A split seal would be recommended to allow for easier maintenance of the seal and the pump.

RESPONSE #12:

- Mechanical, split-seal assembly to be used.

QUESTION #13:

- RFI QUESTION: In Section 15700, Paragraph 2.05, the specification calls for the space heaters to be 208 volt AC, three phase, 60 hz service. Three phase space heaters are not available, therefore, can

either single phase 110 or 220 volt space heaters be allowed? Please state which voltage you would like provided.

RESPONSE #13:

- The Contractor shall provide 110 or 220 VAC single phase motor space heaters with voltage to be determined by MWW at time of submittal.

END OF ADDENDUM NO.1