East Aztec Pump Station SCADA
ITB # 2021-770

Addendum #2
March 3, 2021

NOTICE TO BIDDERS
The following corrections, revisions, additions, and/or information are for the above referenced project and shall be incorporated into the Plans, Specifications, and/or Contract Documents for the project as described below. The corrections, revisions, additions, and/or information shall henceforth be regarded as an integral part of the project, carrying the same weight and force as original sections of the Plans, Specifications, and/or Contract Documents.

ENSURE THAT YOU INDICATE RECEIPT OF THIS ADDENDUM ON YOUR BID.

1. Answers to Submitted Questions

The following is the list of questions submitted to Aztec Procurement by the deadline (March 3, 2021 @ 10:00 AM), and the associated answers to the questions.

A. **A. SCOPE OF WORK 1. c.** states "Prepare and submit 2 sets of engineered design drawings that shall include the PLC, all inputs and outputs, site location and layout and communications drawings." - Do the engineered design draws need a **New Mexico P.E. seal**? If so, which drawings?
ANSWER: A PROFESSIONAL ENGINEER'S SEAL IS NOT REQUIRED

B. **A. SCOPE OF WORK 2. c.** states "Remove the current IO and junction boxes located near the water storage tank and deliver contents to the City."
   1) Is it acceptable to remove only the smaller junction box/panel that was used for the old pump SCADA
   ANSWER: YES. OR IT COULD BE USED AS A PULL BOX.

   2) Is it acceptable keep the existing junction with the SCADA device, power supply and radio and ethernet switch in place for monitoring the Lower East Tank since it is not part of the pump station upgrade?
   ANSWER: YES, BUT IT STILL NEEDS TO COMUNICATE WITH THE WATER PLANT

   3) We would add a new SCADA controller in the pump building for the new pump controls and monitoring and **connect to the existing ethernet switch** in the Lower East Tank panel for the connection to your existing SCADA. Is that acceptable?
   ANSWER: YES

C. **A. SCOPE OF WORK 3. a. 6.** states "Monitoring of site inputs and outputs"
   1) Would you provide a **complete** list all inputs to be monitored and all outputs to be controlled by the PLC?
   ANSWER: THE FOLLOWING MONITORING INPUTS SHOULD BE MONITORED: SUCTION PRESSURE WITH SET POINT, DISCHARGE PRESSURE, METER TOTALIZER, METER FLOW IN GPM, MOTOR HERTZ WITH CONTROLLABLE SET POINT, MOTOR AMPS, SET LEAD LAG ON THE PUMPS, PANEL OR ROOM TEMPERATURE, RUN HOURS, RUN HOURS RESETTABLE, BATTERY VOLTAGE, PUMP MODE AUTO OR MANUAL, RUN STATUS, # OF PUMP STARTS, LEAD SET POINT, LAG SET POINT ACCORDING TO TANK LEVEL (UPPER EAST AZTEC TANK), STOP SET POINT, ABILITY TO START AND STOP THE PUMPS FROM THE WATER TREATMENT

PLANT. AN EXAMPLE OF THE PAGE IN THE EXISTING SCADA SYSTEM IS ATTACHED. THE PAGE IS SIMILAR BUT NOT ALL INCLUSIVE. AS THE PROJECT MOVES FORWARD SOME CHANGES AND ADDITIONS MAY HAPPEN ACCORDING TO THE CIRCUMSTANCE.

2) Would you specify the signal type for the components to be monitored, for example Analog (4-20mA) or Digital Dry Contact
ANSWER: ASSUME ALL SIGNALS ARE 4-20 mA.

D. **B. GENERAL REQUIREMENTS 11. b.** One year of technical support. – Is the cost for one year of technical support to be included in the total contract (lump sum) price so that, in the event we are to provide technical support within the following year, there will be no charge to the customer? Or, do we only need to provide the service as needed at regular T&M rates not included in the contract (lump sum) price?
ANSWER: THE ONE YEAR OF TECHNICAL SUPPORT IS TO BE AVAILABLE WITHIN 3 HOURS AS STATED IN GENERAL REQUIREMENTS ITEM 11.b. SERVICE SHALL BE PROVIDED AS NEEDED AT REGULAR TIME AND MATERIALS RATES. NO COST FOR THIS SUPPORT SHOULD BE INCLUDED IN THE COSTS FOR THIS CONTRACT.

E. Is an HMI required at the site?
ANSWER: NO, AN HMI IS NOT DESIRED AT THE SITE.

F. Do all inputs and outputs need to be fused or protected (including all future inputs and outputs)?
ANSWER: YES

G. Is battery backup required (similar to other sites)?
ANSWER: YES
If so, is loss of AC power alarm required?
ANSWER: YES

H. Verification that Motor Current must be captured for each VFD/Motor.
ANSWER: YES, MOTOR CURRENT MUST BE MONITORED AND DISPLAYED.

I. Does Comms need to be monitored and alarmed if comms are lost?
ANSWER: YES, COMMUNICATIONS MUST BE MONITORED AND ALARMED.

J. Is a Panel/Room temperature required (similar to the other sites)?
ANSWER: YES

K. Do Runtimes, Number of Starts and Flow Totals (including resettable) required on the ClearSCADA System?
ANSWER: YES

L. Is a Controller required for the site?
ANSWER: YES. THE OTHER SITES THAT CONTROL PUMPS HAVE SCADA PACKS.

M. Can we get a copy of electrical drawings including Bill of Materials?
ANSWER: THE AS-BUILT ELECTRICAL DRAWINGS WERE PROVIDED IN ADDENDUM 1.

N. Can I get the model number of the ABB VFDs?
ANSWER: THE VFD MODEL NUMBER IS ABB ACS880-31-124A-5