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Addendum #7

File # 16-0274

Project: Lakewood Water Treatment Plant HVAC System Improvements

This addendum serves to notify all bidders of the following changes to the solicitation documents:

NOTICE

This Addendum is issued to modify, explain or correct the original drawings, specifications and/or previous addendums and is hereby made a part of the Contract Documents.

PROJECT MANUAL

DIVISION 23 - HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)

Section 23 90 00 – HVAC Controls: In item 1.02., **revise** sub-paragraph J. to read as follows:

- J. Equipment Manufacturers and Suppliers that offer open non-preprogramed/non-proprietary protocols products which may comply with the requirements of this contract include the following: Johnson Controls Inc., Siemens, Schneider Electric and others approved by Addenda.

Section 23 98 00 – HVAC Instrumentation: In item 2.01.A., **revise** the first sentence to read as follows:

- A. The Building Automation System (BAS) shall be based on a Niagara Framework (newest version) by Tridium and use an open protocol architecture (custom programmed and integrated) where applicable to support a multi-vender environment. The BAS shall include a Universal Network Controller, JACE (Java Application Control Engine), that is connectable using network protocols such as LonWorks, BACnet, Modbus, oBIX, Legacy, etc. the Universal Network Controller shall be an embedded control/server providing integrated control, supervision, data logging, alarming, schedule ding and network management with internet conductivity and web server capabilities. The JACE shall be an open protocol device that can connect, integrate, and network with multiple controllers and devices.

The Building Automation System (BAS) shall Section 23 98 00 – HVAC Instrumentation: In item 2.01, **revise** sub-paragraph E.1. to read as follows:

1. Facility Explorer (or equivalent approved manufacture) utilizing Tridium’s Niagara platform (newest version).

Section 23 98 00 – HVAC Instrumentation: In item 2.04.A. **revise** sub-paragraph 1. to read as follows:

1. The Supervisory Controller, based on Facility Explorer model LP-FX6021E-1 (or approved equal), must provide the following hardware features as a minimum.

Section 23 98 00 – HVAC Instrumentation: In item 2.05.A. **revise** sub-paragraph 1. to read as follows:

1. The General Purpose Programmable Controller (PCG), (basis of design is Facility Explorer programmable controllers model FX-PCA26xx-0, FX-PCG16xx-0, FX-PCG26xx-0, or approved equal, shall be open protocol and fully user-programmable.

Section 23 98 00 – HVAC Instrumentation: In item 2.05.B. **revise** sub-paragraph 1. to read as follows:

1. The Programmable Controller Expansion I/O Module (PCX), (basis of design is Facility Explorer programmable controller expansion I/O modules model FX-PCX17xx-0, FX-PCX27xx-0, FX-PCX37xxw-0, FX-PCX47xx-0, or approved equal, provides additional inputs and outputs for use in the PCG.

Section 23 98 00 – HVAC Instrumentation: In item 2.05.C. **revise** sub-paragraph 1. to read as follows:

1. The Programmable VAV Box Controller (PCV), (basis of design is Facility Explorer programmable VAV box controller model FX-PCV1615-0, FX-PCV1630-0, or approved equal, shall provide both standalone and networked direct.

DRAWINGS

Sheet A1: **CLEARIFICATON:** NN21 calls out for gas pipe relocation by Owner. We have the MC rerouting this on sheets M2.1 and M4.1.2016.

Sheet A4: **CLEARIFICATON:** NN1 calls out for existing fan to remain. We are actually replacing this fan.

Sheet M2.1: **CLARIFICATION:** Coordinate concrete housekeeping pad removal and replacement for mechanical equipment with work as described on Sheet A2, Numbered Notes 8 & 9.

Sheet M2.1: **DELETE:** Numbered Note 15. All work associated with Sample Pumps and Piping is defined on Drawings PM1 – PM4 and Clarified in Addendum #4.

Sheet M3.2: **DELETE:** General Note 13.

Sheet M5.1: **CLARIFICATION:** Coordinate concrete housekeeping pad removal and replacement for mechanical equipment with work as described on Sheet A2, Numbered Notes 8 & 9.

Sheet M5.2: **CLARIFICATION:** All new and existing supply and return air ductwork in the Mechanical Room associated with AHU- is to be insulated.

Sheet M5.3: **DELETE:** Numbered Note 11. All work associated with Sample Pumps and Piping is defined on Drawings PM1 – PM4 and Clarified in Addendum #4.

Sheet M5.5: **CLARIFICATION:** All work associated with Sample Pumps and Piping is defined on Drawings PM1 – PM4 and Clarified in Addendum #4.

Please acknowledge receipt of this Addendum by initialing and dating Addendum #7 below the bid form on the invitation for bids.

Posted Date April 6, 2016.