



ERIE COUNTY WATER AUTHORITY

INTEROFFICE MEMORANDUM

July 25, 2018

To: Terrence D. McCracken, Secretary to the Authority

From: Russell J. Stoll, Executive Engineer

Subject: Furnish and Install HVAC Equipment
For Sturgeon Point Water Treatment Plant
ECWA Project No. 201800162

Sturgeon Point's HVAC systems require the installation of new equipment and upgrade of the alarm notification system.

Item 1 – High Service Building: has five HVAC units, of which three have already been replaced. The last two air handlers need to be replaced with larger units. This will result in a better exchange of air in order to maintain proper operating temperature range for the high service motors.

Item 2 – Upgrade the High Service SCADA Alarm system: to a web-based program will result in a better alert system accessible to all supervision (Aiple, Bradley, Mogavero, and Sturgeon Point Water Treatment Plant Operators). The present alarm system, integrated in the High Service SCADA program, is difficult to rewrite and triggers nuisance alarms.

Item 3 – Filtration Building (Main Plant): air conditioning unit (condenser and compressor) need to be replaced.

The Authority currently has a contract with Mollenberg-Betz (Heating, Ventilating, and Air Conditioning Service and Preventative Maintenance Work within the ECWA's Facilities for a Two Year Period from July 1, 2017 through June 30, 2019, Project Number 201700097, MPO 6645-17). Under the terms of this contract, Item 1-Service Labor, the Contractor is to provide HVAC equipment installation work. This contract is developed from a sealed competitive bid process. In project 201800162 Mollenberg-Betz is providing all equipment and service to install the items listed.

Electrical work required to complete the install of these items is covered under the Authority's contract with Ferguson Electric Services (High Voltage, Service, Switchgear Inspection, and Emergency Electrical Work within the ECWA's Facilities, for a Period of Two Years from June 1, 2017 through May 31, 2019, Project Number 201700017, MPO 5279-19). This contract is also developed from a sealed competitive bid process.

Attached is Mollenberg-Betz quote for portions of the items listed. Verbal quotes from other vendors result in an estimated project total of \$200,000 (written quotes are forthcoming). All equipment and services shall be completed by December 31, 2018.

RJS:jmf

Attachment

cc: J.Mogavero

SPWA-379-1801-I-186



MOLLENBERG-BETZ INC

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November 10, 2017

Erie County Water Authority
Attention: Russ Bradly
Subject: Main Air Handling Unit Replacement
Quote #: DJ2017-240

Dear Russ:

Mollenberg-Betz, Inc. is pleased to submit the following proposal for the above referenced project per the Scope of Work, Pricing, and the following Notes and Exceptions.

Scope of Work

1. Shut down and remove existing Bohn air handling unit and condensing unit.
2. Furnish and install one (1) new Aaon vertical air handler; unit will be provided as follows:
 - Aaon model V3-ERB-2-0-142D-12F indoor vertical air handler.
 - R-410 coiling coil – 4 row coil.
 - Two cooling circuits – interlaced coil.
 - Hot water coil – 2 row coil.
 - Supply air – two (2) blowers on EC (electronically commutated) motors.
 - Wattmaster Orion control system with constant volume controller – 25" x 22" control panel – factory wired with 6' watertight flexible conduit.
3. One (1) Aaon condensing unit will be provided as follows:
 - Aaon model CFA-016-C-0-3-DC00K condensing unit.
 - 16-ton nominal cooling capacity – air-cooled fin and tube condenser coil.
 - 460 Volt / 3-phase.
 - Two (2) cooling circuits – one (1) variable capacity digital scroll compressor and one (1) on/off standard scroll compressor.
 - Sight glass, compressor isolation valves, and adjustable compressor lock-outs.
 - VFD controlled condenser fans for head pressure control.
4. Rig units into place.
5. Install all new suction and discharge piping.
6. Pressure test, evacuate and charge system.
7. Insulate all piping.
8. Install new temperature control panel.
9. Install new sheet metal supply and return connections.
10. Programming of new panel.
11. Start, test, and check operation.

Budget Pricing

Pricing Total..... \$96,136.00



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Notes and Exceptions

- 1) **Please note this is a budget quote and you would be billed for actual time and material used to complete this scope of work.**
- 2) **This quote does not include electrical.**
- 3) Sales or use taxes are not included in our pricing. If applicable, they will be added to the quoted price. If the project is treated as a capital improvement, the quoted price will increase by the cost of use tax incurred by Mollenberg-Betz.
- 4) Due to the volatility of current market conditions, the price(s) included in this proposal for the material, labor, subcontractor costs and equipment component(s) identified herein shall remain in effect through and including (30) days from the date of this proposal. Thereafter, Mollenberg Betz may in good faith adjust such prices to reflect increases in the costs or availabilities of such price components. Any surcharges from our suppliers at the time of shipping will be added to the costs of this proposal.
- 5) Freight and overtime are not included in our pricing.
- 6) This quote is for the scope as described. Any additional parts or material which may be required beyond this scope would be billed extra. We would discuss any additions with you before proceeding.

If you have any questions and/or comments, please do not hesitate to call.

Sincerely,

MOLLENBERG-BETZ, INC.

Doug Jalovick
Assistant Service Manager