



BID ADDENDUM NO. 3
June 15, 2016

Town of Mansfield, Connecticut
Replacement of Boilers at Annie Vinton Elementary School

TO: Prospective Bid Proposers:

This Addendum forms part of the "Request for Proposal – Replacement of Boilers at Annie Vinton Elementary School" and modifies or clarifies the original "Request for Proposal – Replacement of Boilers at Annie Vinton Elementary School" for this project dated May 2016. Prospective Bid Proposers shall acknowledge receipt of the addendum and submit with their bid. Failure to do so may subject the Bid Proposers to disqualification.

Pre-Bid Walkthrough Questions:

The following are questions that have been received from potential bidders with the following answer provided in bold italics below:

Q1: Will ABS be provided a price that the bidders can carry?

A1: *The price from ABS that shall be carried by all bidders is listed in Attachment A.*

This addendum must be signed and returned with your Bid.

Authorized Signature of Bidder

Company Name

End of Addendum No. 3



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ATTACHMENT A
DIRECT DIGITAL CONTROL SYSTEM



Main Office

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Southborough, Massachusetts • Braintree, Massachusetts
Licenses: CT E1-125715, CT S1-389041, MA 20810A, MA 724

June 14, 2016

Prepared by: Drew Appleton

Number of pages: 2

Project: Direct Digital Control System for: Annie Vinton School – Boiler Replacement / Hot Water Conversion

Automated Building Systems, Inc. is pleased to present the following scope for the above referenced project.

- Expand the existing Alerton controls Network
- Operator's workstation consisting of:
 - Personal Computer with operating system software
 - System graphics
 - **ISP provided by Customer
- Global Control Points including:
 - Outdoor air temperature
- Delete existing control of Steam/ Hot water convertor.
- Retain DDC control of existing hot water pumps.
- Direct Digital Control (DDC) of Hot Water System consisting of:
 - (2) Boiler Enable / Disable
 - (2) Boiler run status
 - (2) Boiler flame failure
 - (2) Hot water supply setpoint – reset based on outdoor air temperature
 - (2) Primary hot water pump start / stop
 - (2) Primary hot water pump run status
 - (2) Secondary hot water pump start / stop
 - (2) Secondary hot water pump run status
 - (2) Secondary hot water pump speed control a through variable speed drive – **VFDs by others**
 - Secondary pump lead / lag control
 - Secondary pump rotation control.
 - ** Secondary loop minimum flow / minimum pressure control valve – 2-way, modulating control valve provided for installation by the Mechanical contractor.
 - Secondary hot water loop supply pressure – Taps required by mechanical contractor
 - Secondary hot water loop return pressure– Taps required by mechanical contractor
 - Common hot water supply temperature. – Taps required by mechanical contractor
 - Common hot water return temperature. – Taps required by mechanical contractor

- DDC control of (24) zones of hot water heating zone consisting of:
 - Alerton Microtouch Space temperature sensors with local setpoint adjustment and internal timed override button for Occupancy override
 - Hot water control valves – Valves included for install by others. Valves provided will be “sweat” fitting type.

- Includes controls installation
- Includes control wiring
 - Control Wiring in Boiler Room will be in EMT Conduit
 - Control wiring in classrooms will be surface mounted in “Wiremold”
 - Classrooms walls will be penetrated from hallway. Sleeves will be installed and fire-caulked.

- Includes control programming
- Includes (1) year Warranty
- Includes Controls Start-Up

- DOES NOT INCLUDE:
 - Variable Frequency Drives. Drives are to be provided by others to match the new secondary hot water pump requirements.
 - Boiler Start -Up
 - Motor Starters
 - Motors/Pumps
 - Sales Tax

Our quotation for the above is\$ **56,060.00**

Delete Operator Workstation Delete from above \$ 1,310.00