

BIDDING AND CONTRACT REQUIREMENTS

Section 00201 - Addendum No. 1

November 27, 2019

Evan Lloyd Associates, Inc.

Architects

1630 South Sixth Street
Springfield, Illinois 62703
217.789.7011

SUBJECT: **ADDENDUM NO. 1 TO THE BIDDING DOCUMENTS FOR:**

**BOILER REPLACEMENT
BOS CENTER
SPRINGFIELD, ILLINOIS
ELA 19-041**

This Addendum forms a part of the bidding and contract documents and modifies the original bidding documents, dated September 3, 2019. Acknowledge receipt of this addendum in the space provided on the Bid Form. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

GENERAL:

1. Any asbestos containing materials that the contractor discovers that will be disturbed will be abated by the BOS Center under a separate contract.
2. All work required to be done by ENTEC will be contracted directly through the BOS Center to ENTEC and therefore, shall not be included in this bid.

PROJECT MANUAL:

1. SECTION 00300 – Bid Form
 - A. 1., A.: Remove reference to Drawings. See new Bid Form attached.
2. SECTION 01340 – Shop Drawings and Product Data
 - A. Added section. See attached.
3. SECTIONS 15555.1 AND 15555.2 – Boilers (section attached)
 - A. Add:
 - 1.04 Submittals
 1. In accord with Section 01340
 - a. Product Data
 1. Boilers

- B. 2.01, A., 2.:
 - 1. Delete reference to "titanium infused".
 - 2. Delete "Lamellar".

- C. 2.01, J.: Warranty shall read: The manufacturer shall provide the Owner a warranty form that warrants the boiler and boiler vessel for ten (10) years, non pro-rated, and all other components for two (2) years after start-up date.

- D. 3.01, A.: Remove "and as detailed on drawings".

BID DATE:

- 1. The bid remains the same. Bids are due on **Thursday, December 5, 2019 at 3:00 p.m.** in the BOS Center, Administrative Office Conference Room (2nd Floor).

Sincerely,

Tilman Ritter
EVAN LLOYD ASSOCIATES, INC.

This addendum consists of 15 pages including Section 00300, Section 01340, Section 15555.1 and Section 15555.2.

BID TO: BOS Center, 1 Convention Center Plaza, Springfield, Illinois 62701

BID FROM: _____ BID FOR MECHANICAL WORK
(Bidder's Name)

(Bidder's Address)

Date:

THE UNDERSIGNED:

1. Acknowledges receipt of:
 - A. Project Manual for Project No. ELA 19-041, dated September 3, 2019.
 - B. Addenda: No. _____, dated _____.
Addenda: No. _____, dated _____.
Addenda: No. _____, dated _____.
Addenda: No. _____, dated _____.
2. Has examined the site and all bidding documents. They shall be responsible for performing all work specifically required of them by all parts of the bidding documents, including all specifications for the entire project even though such work may be included as related requirements noted on other sheets.
3. Agrees to:
 - A. Hold this bid open until 60 calendar days after bid opening date.
 - B. Accept the provisions of the Instructions to Bidders regarding disposition of bid security.
 - C. Enter into and execute a contract with the Owner, when awarded on the basis of this bid, and in connection therewith to:
 1. Furnish and insurance in accord with the bidding documents.
 2. Accomplish the work in accord with the Contract.
 3. Complete the work within the contract time.
4. CONTRACT TIME: The Contractor shall complete all the work in accord with the Contract in 60 days from the Notice of Award.

BIDDING AND CONTRACT REQUIREMENTS

Document 00300 - Bid Form

BASE BID, OPTION NO. 1 GENERAL WORK: Bidder agrees to perform all Work shown or specified in the bidding documents, for the sum of:

_____ DOLLARS \$ _____

BASE BID, OPTION NO. 2 GENERAL WORK: Bidder agrees to perform all Work shown or specified in the bidding documents, for the sum of:

_____ DOLLARS \$ _____

BIDDER'S NAME _____

PROPOSED PRODUCT SUBSTITUTION LIST

The Base Bid includes only those products specified in the bidding documents. Following is a list of substitute products which bidder proposes to furnish on this project, with the difference in price being added to or deducted from the Base Bid.

Bidder understands that acceptance of any proposed substitution is at the Owner's option. Approval or rejection of any substitutions listed below will be indicated prior to executing the Contract.

MANUFACTURER'S NAME AND PRODUCT	ADD	DEDUCT
_____	_____	_____
_____	_____	_____
_____	_____	_____

Bidder's proposal shall be in accord with the provisions of Division 1 - General Conditions, Section 01630, "Substitutions and Product Options."

EVALUATION. Contract award will be made in accord with Instructions To Bidders. Only the successful bidder's Proposed Product Substitution List will be evaluated.

BIDDER'S NAME: _____

BIDDING AND CONTRACT REQUIREMENTS

Document 00300 - Bid Form
Representations & Certificates

REPRESENTATIONS & CERTIFICATES. The bidder by the execution of this Bid Form makes the following representations and certificates as a part of his bid on the project identified in the Bid Form. In the case of a joint venture bid, each party represents and certifies as to his own organization.

1. AVAILABILITY. The number and amount of the other contracts and awards pending which I am or will become obligated to perform, now and during the course of my work on this project, will not interfere with or hinder the timely prosecution of my work.
2. INDEPENDENT PRICE DETERMINATION. The contract sum in this bid has been arrived at independently, without consultation, communication, or agreement for the purpose of restricting competition.
3. OPEN COMPETITION. I have not offered any money or other valuable thing to any person to induce him/her not to bid on this project, or as recompense for his/her not having bid on this project, and therefore have not violated the prevention of competition in preparing my bid.

RESPECTFULLY SUBMITTED, signed and sealed this _____ day of _____, 2019.

Contractor Firm Name

ATTEST:

Signature

BY _____

Corporation Secretary
(Corporations Only)

Title

Official Address

Telephone

Project No. ELA 19-041

SIGNATURE REQUIRED

DIVISION 1 - GENERAL REQUIREMENTS
Section 01340 - Shop Drawings & Product Data

1. GENERAL Contractor make specified pre-construction submittals in accordance with Division 01300 of the Standard Documents for Construction.

1.01. REQUIREMENTS INCLUDE

- A. Contractor shall maintain a master list of submittals.
- B. Contractor:
 - a. Verify field dimensions.
 - b. Verify compliance with Contract requirements
- 2. Certify review.
- 3. Transmit compliance submittals to Architect/Engineer.

1.02. RELATED REQUIREMENTS

- A. Specified elsewhere:
 - 1. 01310 - Construction Schedules.
 - 2. 01730 - Operating and Maintenance Data.
 - 3. 15555.1 – Boilers.
 - 4. 15555.2 – Boilers.

1.03. DEFINITIONS

- A. Shop Drawings: Shop drawings are original drawings prepared by Contractor, subcontractor, sub-subcontractor, supplier or distributor, which illustrate some portion of the work, showing fabrication, layout, setting or erection details as follows:
 - 1. Prepared by qualified detailer.
 - 2. Identify details by reference to sheet and detail numbers shown on contract documents.
 - 3. Maximum sheet size: 36 x 24 inches.
 - 4. Reproductions of submittals: blueprints.
- B. Product data:
 - 1. Manufacturer's standard schematic drawings, edited to fit this project.
 - 2. Manufacturer's catalog sheets, brochures, diagrams schedules, performance charts, illustrations and other standard descriptive data.
 - b. Clearly mark each copy to identify pertinent materials, products or models.
 - b. Show dimensions and clearances.
 - c. Show wiring diagrams and controls.
- C. Samples: Physical samples to illustrate materials, equipment or workmanship. Approved samples establish standards by which complete work is judged. Maintain at site as directed. Protect until no longer needed.

1. Office samples: Of sufficient size to clearly illustrate:
 - a. Functional characteristics of product or material, with integrally related parts and attachment devices.
 - b. Full range of color samples.
 - c. After review, samples may be used on construction of project.

1.04. EXHIBIT EACH SUBMITTAL

- A. Submit all exhibits within dates indicated in Section 0300 Bid Form.
- B. Submit number of copies of shop drawings, product data and samples which contractor requires for distribution plus three (3) copies which will be retained by Architect/Engineer.
- C. Submit number of samples specified in respective specification sections.
- D. Accompany submittals with transmittal letter, in duplicate, containing:
 1. Date.
 2. Project title and number.
 3. Contractor's name and address.
 4. The number of shop drawings, product data and samples submitted.
 5. Notification of deviations from Contract.
 6. Other pertinent data.
- E. Submittals shall include:
 1. Date and revision dates.
 2. Project title and number.
 3. Names of:
 - a. Architect/Engineer.
 - b. Architect/Engineer's consultants.
 - c. Subcontractor.
 - d. Sub-subcontractor.
 - e. Supplier.
 - f. Manufacturer.
 - g. Separate detailer when pertinent.
 4. Identification of product or material.
 5. Relation to adjacent structure or material.
 6. Field dimensions, clearly identified as such.
 7. Specification section and page number.
 8. Specified standards, such as ASTM number or ANSI.
 9. A blank space, 4 x 4 inches, for Architect/Engineer's stamp.
 10. Identification of previously approved deviations from contract documents.
 11. Contractor's stamp, initialed or signed, certifying to review of submittal, verification of field measurements and compliance with Contract.
 12. Space for Contractor's approval stamp.

1.05. RESUBMISSION REQUIREMENTS

- A. Resubmit all shop drawings, product data, and samples as requested by the Architect/Engineer.

1.06. RESPONSIBILITIES

- A. Review shop drawings, product data and samples prior to submission to the next level of authority.
- B. Verify:
 - 1. Field dimensions.
 - 2. Field construction criteria.
 - 3. Catalog numbers and similar data.
- C. Coordinate each submittal with requirements of:
 - 1. The work.
 - 2. The construction documents.
 - 3. The work of other contractors.
- D. Contractor's responsibility for errors, omissions or deviation from contract documents in submittals is not relieved by Architect/Engineer's review of submittals.
- E. Prior to submission, notify Architect/Engineer and Owner in writing of all proposed deviations in submittals from contract requirement. Substitution of materials or equipment may only be approved by change order.
- F. Do not begin any work which requires submittals without Architect/Engineer's approval.
- G. After Architect/Engineer's review, make response required by Architect/Engineer's stamp and distribute copies. Indicate by transmittal that copy of approved data has been delivered to installer.

1.07. ARCHITECT/ENGINEER'S DUTIES

- A. Review submittals within 7 business days.
- B. Review for:
 - 1. Design concept of project.
 - 2. Compliance with contract documents.
- C. Review all requests for proposed deviations. Obtain Blackburn College's concurrence and respond to Contractor's request.
- D. Affix stamp, date and initials or signature certifying to review of submittal, and with instructions for contractor responses.
- E. Return submittals to sender for response or distribution.

NOTE! Architect/Engineer may require additional submittals at any time.

1.08. SUBMITTAL SCHEDULE

- A. See following submittal log for the mandatory submittals.

1. Section 15555.1 and 15555.2 - Boilers
 - A. Product data:
 1. Boilers
 - B. Maintenance Manuals.

END 01340.

1. GENERAL

1.01 WORK INCLUDES

A. Base Bid (Option #1):

1. Mechanical contractor provide (Natural Gas):
 - a. Full condensing Type 2 hot water boilers.
 - b. Titanium infused stainless steel Inox-Lamellar heat exchanger.
 - c. 96.8% efficiency.
 - d. Factory assembled and tested.
 - e. Piping as required to connect new boilers to the existing system.
 - f. Gas connection to boilers.
 - g. Electrical connection to burners.
 - h. Interlock new controls to the existing.
 - i. PVC combustion air and flue gas piping.
 - j. Water balancing.
 - k. Neutralizing kit.
2. Demolition of the existing boilers and portions of the piping as required for the installation of new boilers.
3. Demolition of the boiler flue pipes.
4. Remove combustion air fans and close off opening in exterior wall.

1.02 QUALITY ASSURANCE

A. Regulatory Requirements:

1. Governing Codes:
 - a. 2014 Illinois State Plumbing Code.

1.03 REFERENCES

A. Referenced standards:

1. NFPA "Standard for the Installation of Gas Burning Equipment."
2. NFPA 54 "National Fuel Code."

3. ASME "Section IV."
4. CSA
5. AHRI
6. UL listed and labeled electrical components.

1.04 SUBMITTALS

- A. In accord with (01340).
 1. Product data.
 - a. Boilers.

2. PRODUCTS

2.01 BOILERS

- A. Viessmann Full Condensing:
 1. Capacity: 2 – 2,500 MBH boilers with 2 heat engines each for N+1 redundancy.
 2. Stainless steel Inox-Lamellar heat exchanger surface for maximum heat extraction.
 3. 160 psi maximum working pressure.
 4. Flue gas condensate runs off smooth "self-cleaning" heat exchanger surface.
 5. Large water content reduces wasteful burner cycling increasing system efficiency and overall durability – 108 gallons each boiler.
 6. 96.8 thermal efficiency.
 7. Extremely low water pressure drop – 11.6 Ft.hd at 280 gpm.
- B. Pumps:
 1. Reuse the existing pumps and valves.
- C. Building Automation Interface: Interlock controls to the existing building automation infrastructure to provide heating plant management functionality, including full modulating burner control for precise match of capacity.
- D. Installation Practices: Reconfigure the emergency stop switches to control all boiler room combustion equipment.
- E. Flue: Polypropylene.
- F. Combustion Air: Sealed combustion. Combustion air ducted directly to the boilers.
- H. Training: Technical support program provides operation training and

refresher training as needed for the duration of the program (60 months).

- I. Water Balance: Included by Services Measurement and Ventilation Specialist.
- J. Warranty: The manufacturer shall provide the Owner a warranty form that warrants the boiler and boiler vessel for ten (10) years, non pro-rated and all other components for two (2) years after start-up date.

3. EXECUTION

3.01 BOILER INSTALLATION

- A. Boiler to be installed per manufacturer's printed instructions.
- B. Set boiler on existing concrete pad.
- C. Test erected boiler per manufacturer's printed instructions.
- D. Boiler manufacturer's authorized service personnel shall provide start-up for boiler. Adjust all controls and certify that above has been completed in writing to Owner.
- E. Gas vents on regulators to be piped to exterior of building. Each vent shall be piped separately and terminated with a screened vent elbow. Terminal to be at least five (5) feet from any intake louvers or windows.
- F. Provide water balancing of new installation.
- G. Provide mechanical permit.

END OF SECTION 15555.1

1. GENERAL

1.01 WORK INCLUDES

A. Base Bid (Option #2):

1. Mechanical contractor provide (Natural Gas):
 - a. Full condensing Type 2 hot water boilers.
 - b. Stainless steel Inox-Lamellar heat exchanger.
 - c. 96.8% efficiency.
 - d. Factory assembled and tested.
 - e. Piping as required to connect new boilers to the existing system.
 - f. Gas connection to boilers.
 - g. Electrical connection to burners.
 - h. Interlock new controls to the existing.
 - i. PVC combustion air and flue gas piping.
 - j. Water balancing.
 - k. Neutralizing kit.
2. Demolition of the existing boilers and portions of the piping as required for the installation of new boilers.
3. Demolition of the boiler flue pipes.
4. Remove combustion air fans and close off opening in exterior wall.

1.02 QUALITY ASSURANCE

A. Regulatory Requirements:

1. Governing Codes:
 - a. 2014 Illinois State Plumbing Code.

1.03 REFERENCES

A. Referenced standards:

1. NFPA "Standard for the Installation of Gas Burning Equipment."
2. NFPA 54 "National Fuel Code."

3. ASME "Section IV."
4. CSA
5. AHRI
6. UL listed and labeled electrical components.

1.04 SUBMITTALS

- A. In accord with (01340).

1. Product data.
 - a. Boilers.

2. PRODUCTS

2.01 BOILERS

- A. Wiel-McLain #SVF-2500 Full Condensing:
1. Capacity: 2 – 2,500 MBH boilers with 2 heat engines each for N+1 redundancy.
 2. Titanium infused stainless steel Inox-Lamellar heat exchanger surface for maximum heat extraction.
 3. 160 psi maximum working pressure.
 4. Flue gas condensate runs off smooth "self-cleaning" heat exchanger surface.
 5. Large water content reduces wasteful burner cycling increasing system efficiency and overall durability – 108 gallons each boiler.
 6. 96.8 thermal efficiency.
 7. Extremely low water pressure drop – 11.6 Ft.hd at 280 gpm.
- B. Pumps:
1. Reuse the existing pumps and valves.
- C. Building Automation Interface: Interlock controls to the existing building automation infrastructure to provide heating plant management functionality, including full modulating burner control for precise match of capacity.
- D. Installation Practices: Reconfigure the emergency stop switches to control all boiler room combustion equipment.
- E. Flue: Polypropylene.
- F. Combustion Air: Sealed combustion. Combustion air ducted directly to the boilers.
- H. Training: Technical support program provides operation training and refresher training as needed for the duration of the program (60 months).

- I. Water Balance: Included by Services Measurement and Ventilation Specialist.
- J. Warranty: The manufacturer shall provide the Owner a warranty form that warrants the boiler and boiler vessel for ten (10) years, non pro-rated, and all other components for two (2) years after start-up date.

3. EXECUTION

3.01 BOILER INSTALLATION

- A. Boiler to be installed per manufacturer's printed instructions.
- B. Set boiler on existing concrete pad.
- C. Test erected boiler per manufacturer's printed instructions.
- D. Boiler manufacturer's authorized service personnel shall provide start-up for boiler. Adjust all controls and certify that above has been completed in writing to Owner.
- E. Gas vents on regulators to be piped to exterior of building. Each vent shall be piped separately and terminated with a screened vent elbow. Terminal to be at least five (5) feet from any intake louvers or windows.
- F. Provide water balancing of new installation.
- G. Provide mechanical permit.

END OF SECTION 15555.2