

ADDENDUM #1

1.1 PROJECT INFORMATION

- A. Project Number: 2019-10348
- B. Project Title: Cooling Tower & Boiler Replacement
- C. Project Location: 701 W. Riverside Ave., Washington
- D. Agency: Spokane Transit Authority

1.2 NOTICE TO BIDDERS

- A. The following clarifications, changes, additions, and/or deletions are considered as Addendum #1 and are hereby made a party of the contract documents. All bidders are required to base their bid upon the information furnished in this addendum and as required in the contract documents. The Contractor is required to acknowledge Addendum #1 in their company proposal. Failure to acknowledge addendum on the bid form will result in the bid proposal being declared non-responsive.
- B. The bid due date and time is 3:00pm August 3, 2021. Bids to be delivered/mailed to STA's headquarters located at 1230 W. Boone Avenue.
- C. All communications shall be directed to Jessica Charlton as listed in the bid documents at jcharlton@spokanetransit.com or by telephone at 509-325-6049.

1.3 CLARIFICATIONS / GENERAL

- A. **Prevailing Wage:** This project is locally funded. The minimum prevailing wage provisions for Washington State law apply to this project.
- B. **Permitting:** The contractor is to include in their bid the cost of permitting.
- C. **Access:** badging for access to secure areas will be provided to limited personnel on the awarded contractors team. The site superintendent assigned to the project will be badged and will be responsible for up to two other badges.
There is only one stairwell access to the roof which has only a 3-0 x 7-0 door to access the roof. The only access to the mezzanine is a roof hatch and ladder.
- D. **Materials laydown:** contractors may use the hallway behind the secure access to the Mezzanine, the landings in the stairwell to the roof above the secure access, and other small areas in the garage may be allowed however prior coordination will be required. Storage of large equipment will not be able to be accommodated.
- E. **Parking:** a maximum of two support vehicle parking spots in the garage will be allowed for parking throughout each workday. Deliveries and other thru traffic may be allowed with prior coordination. Clear height in the garage is restricted to vehicles less than 9'6" in height and less than 19ft in length. No other on-site parking can be accommodated.

1.4 REVISIONS/CLARIFICATIONS TO PLANS AND SPECIFICATIONS SECTIONS

- A. Invitation for Bid

REVISE: **Table of Contents** to include Specification Section 235100. See attached.

- B. Specifications

ADD: **Division 23 –Specification 235100 – Breechings, Chimneys, and Stacks.** See Attached

1.5 QUESTIONS / ANSWERS (from the Pre-Bid Meeting, Emails, and Phone Calls)

Question 01: *What is the cost estimate for the project?*

Answer 01: The cost estimate is \$513,700

Question 02: *The Boiler section refers to Breechings, Chimneys and Stacks for venting. There is no section under this heading included in the specifications. Will this section be added?*

Answer 02: *Yes, this section was mistakenly omitted. Please see the attachments in this addendum.*

Question 03: *How tall is the building from sidewalk to roof line?*

Answer 03: The overall height of the building varies from approximately 55ft to 58ft. The Riverside frontage being the tallest side of the building.

Question 04: *Are you expecting normal work hours, or do you have a specific window the work must be done in?*

Answer 04: STA expects the bulk of the work can be done during weekdays and standard daytime working hours. The only exception may be the means and methods needed to remove the old cooling tower from the roof and place the new. This most likely will need crane activity thus would need to be done during STA's non-operational hours. Please also see Section 003100 of the Invitation for Bid.

The Plaza itself is open 6:00am to 11:20pm, Monday through Friday. The City of Spokane noise ordinance quiet hours are between 10pm and 7am.

ENCLOSURES:

Pre-Bid Meeting Agenda, dated July 21, 2021

Pre-Bid Meeting Sign-In, dated July 21, 2021

Division 0 – Table of Contents (Revision 1)

Division 23 – Section 235100 – Breechings, Chimneys and Stacks

SPOKANE TRANSIT
PRE-BID MEETING
FOR THE
Cooling Tower & Boiler Replacement
2019-10348
AGENDA

Date: July 21, 2021
Time: 10:00 a.m. - 11:00 a.m.

Meeting Location: STA Plaza 701 W. Riverside Ave., Spokane, WA 99201

1. SIGN IN
2. INTRODUCTIONS
3. GUIDELINES
 - a. Questions and comments will be accepted during the meeting.
 - b. Remarks, clarifications, or corrections to the IFB during the meeting shall not change the terms of the solicitation.
 - c. A **written amendment** will be issued following the meeting stating any clarifications, corrections, or additions to the solicitation. The sign in sheet will be included along with an updated Plan Holders list with all information provided. All prospective Bidders and Plan Centers who received the original IFB will receive the amendment.
 - d. **All communications** shall be directed to Jessica Charlton as listed in the bid document. You may contact Jessica Charlton at jcharlton@spokanetransit.com or by telephone at 509-325-6049. **Please do not contact other STA staff directly. The goal is to get consistent information to all prospective Bidders.**
 - e. Reminders:
 - i. bid proposal due 3pm, August 3 at reception desk – 1230 W. Boone Ave
 - ii. time for completion = December 17, 2021
 - iii. Priority #1 = Boiler
 - iv. bonding & insurance requirements
 - v. permitting
 - vi. noise & dust limitations
 - vii. traffic control/access
 - viii. project safety, project safety, & project safety.
4. TOUR OF WORK GENERAL WORK AREAS:
 - a. Please direct any questions during the tour to Jessica Charlton, Project Manager.

SIGN-IN

PLEASE PRINT. ALL INFORMATION IS OPTIONAL.

	NAME	COMPANY	PHONE & EMAIL
1	Jim Peters	Source Electric	208 310 2507 jim@source-electric.net
2	Jose Toro	McClintock & Turk	(509) 499 3443 jose@mcturk.NET
3	Brad Bray	TRM Services	509-340-2448 bray@trmservs.com
4	Seth Wilson	Apex Mechanical	360-558-1986 seth@apexmechanical.org
5	Brian Keller	Power City Electric	509-535-8500 ext. 1016 bkeller@powercityelectric.com
6	BEN ENNS	CUTTING EDGE	208-659-7438 BENE@CEPM.BEZ
7	Jered Norris	Apollo Mechanical	509 378 1597 jered.norris@apollomech.com
8	Richard Condrey	Apollo Mechanical	509.599.7373 richard.condrey@apollomech.com
9	Mike Blankenship	IRS Environmental	509-998-2595 mblankenship@irsenviro.com
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SECTION 00 – TABLE OF CONTENTS

DIVISION 0 – PROCUREMENT AND CONTRACTING REQUIREMENTS

<u>Section</u>	<u>Title</u>
001100	Advertisement for Bids
002100	Instructions to Bidders
003100	Project Description & Scope of Work
004200	Bid Submittal Checklist
004213	Bid Proposal Form
004215	Bid Response Form
004512	Bidder Responsibility Criteria
004546.E	Prevailing Wage Certification
005000	Short Form Contract
007200.1	Public Works General Conditions
007300	Supplemental Conditions
007346.1	Washington Prevailing Wage Rates

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

<u>Section</u>	<u>Title</u>
230500	Common Work Results for HVAC
230513	Common Motor Requirements For HVAC Equipment
230519	Meters and Gages for HVAC Piping
230523	General-Duty Valves for HVAC Piping
230529	Hangers and Supports for HVAC Piping and Equipment
230548	Vibration and Seismic Controls for HVAC Piping and Equipment
230553	Identification for HVAC Piping and Equipment
230593	Testing, Adjusting, and Balancing for HVAC
230700	HVAC Insulation
230900	Instrumentation and Control for HVAC
230923	Variable-Frequency Motor Controllers
232113	Hydronic Piping
232123	Hydronic Pumps
235100	Breechings, Chimneys, and Stacks
235223	Cast-Iron Boilers
236500	Cooling Tower

END OF SECTION 00

SECTION 235100 – BREECHINGS, CHIMNEYS AND STACKS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 specification sections, apply to this section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Listed positive pressure single wall flue.
 - 2. Listed positive pressure double wall flue.

1.3 SUBMITTALS

- A. Product Data: Submit for the following:
 - 1. Positive pressure single wall flue.
 - 2. Positive pressure double wall flue.
 - 3. Fittings
 - 4. Draft dampers.
- B. Shop Drawings: For vents, breechings, chimneys, and stacks. Include plans, elevations, sections, details, and attachments to other work. Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, methods of field assembly, components, hangers and seismic restraints, and location and size of each field connection.
- C. Welding certificates.
- D. Warranty: Special warranty specified in this Section.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain listed system components through one source from a single manufacturer.
- B. Welding: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code--Steel," for hangers and supports and AWS D9.1/D9.1M, "Sheet Metal Welding Code," for shop and field welding of joints and seams in vents, breechings, and stacks.
- C. Certified Sizing Calculations: Manufacturer shall certify venting system sizing calculations.

1.5 COORDINATION

- A. Coordinate size and location of concrete bases. Cast anchor-bolt inserts into bases. Concrete, reinforcement, and formwork requirements are specified in Division 03.
- B. Coordinate installation of roof curbs, equipment supports, and roof penetrations. These items are specified in Division 07, Section 077200, "Roof Accessories."

PART 2 - PRODUCTS

2.1 POSITIVE PRESSURE SINGLE WALL FLUE

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. American Metal Products; MASCO Corporation.
 - 2. Jeremias Exhaust Systems.
 - 3. Heat-Fab, Inc.
 - 4. Metal-Fab, Inc.
 - 5. Schebler Co. (The).
 - 6. Selkirk Inc.; Selkirk Metalbestos and Air Mate.
 - 7. Van-Packer Company, Inc.
- B. Description: Straight, single-wall chimney liner tested according to UL 1777 and rated for 1000-degree F continuously, or 2100-degree F for 10 minutes; with negative or positive flue pressure complying with NFPA 211.
- C. Straight Liner Materials: ASTM A 666, Type 316 stainless steel.
- D. Accessories:
 - 1. Fittings: Tees, elbows, increasers, draft-hood connectors, metal caps with bird barriers, adjustable roof flashings, storm collars, support assemblies, thimbles, firestop spacers, and fasteners; fabricated from similar or compatible materials and designs.
 - 2. Sealant: Manufacturer's standard high-temperature sealant.

2.2 POSITIVE PRESSURE DOUBLE WALL FLUE

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. American Metal Products; MASCO Corporation.
 - 2. Jeremias Exhaust Systems.
 - 3. Heat-Fab, Inc.
 - 4. Metal-Fab, Inc.
 - 5. Schebler Co. (The).
 - 6. Selkirk Inc.; Selkirk Metalbestos and Air Mate.
 - 7. Van-Packer Company, Inc.

- B. Provide factory-built modular connector, manifold and stack system that is tested and listed by the Underwriters' Laboratories, Inc. for use with building heating equipment and appliances which produce exhausted flue gases at a temperature not exceeding 1000°F (Fahrenheit) under continuous operating conditions, and not exceeding 1400°F (Fahrenheit) under intermittent operating conditions (see UL103) when burning gaseous, solid or liquid fuels as described in NFPA-211. Additionally, the vent system shall be U.L. 103 positive pressure tested and listed.
- C. The U.L. listed fiber insulated flue gas vent system shall have skin temperatures that have been obtained by Underwriters Laboratories (UL) test procedures. The published surface temperatures shall be the result of the UL-103 1000°F (Fahrenheit) chimney test.
- D. The double wall flue system shall have a 304 stainless steel inner liner and a 304 stainless steel outer jacket. The materials and construction of the modular sections and accessories shall be as specified by the terms of the product's U.L. listing.
 - 1. Air insulation between the inner liner and outer jacket shall be a nominal one-inch thick, as connecting to similar vent.
 - 2. Ceramic fiber insulation between the inner liner and outer jacket shall match thickness of existing system it connects to.
- E. The vent system shall be designed to compensate for all flue gas induced thermal expansion
- F. The system shall be designed and installed to be gas tight and thus prevent leakage of combustion products into a building. Inner pipe joints shall be securely connected and sealed with factory supplied overlapping V-bands and appropriate sealant or conical connection as specified in the manufacturer's installation instructions.
- G. Accessories: Draft Dampers, tees, elbows, increasers, connectors, terminations, support assemblies, thimbles, firestop spacers, and fasteners; fabricated from similar materials and designs as vent-pipe straight sections; all listed for same assembly.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of work. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 APPLICATION

- A. Positive pressure flue: Use single wall connector at boiler. Between the connector and the boiler room combined flue, use double wall flue with air gap replacing the existing AMPCO VSI flue. The existing boiler room horizontal flue is AMPCO IVSI with fiber insulation. Use matching insulating pipe as required to connect to the Existing IVSI fittings.

3.3 INSTALLATION OF LISTED VENTS AND CHIMNEYS

- A. Locate to comply with minimum clearances from combustibles and minimum termination heights according to product listing or NFPA 211, whichever is most stringent.
- B. Seal between sections of positive-pressure vents and grease exhaust ducts according to manufacturer's written installation instructions, using sealants recommended by manufacturer.
- C. Support vents at intervals recommended by manufacturer to support weight of vents and all accessories, without exceeding appliance loading.
- D. Slope breechings down in direction of appliance, with condensate drain connection at lowest point piped to nearest drain.
- E. Lap joints in direction of flow.

3.4 CLEANING

- A. After completing system installation, including outlet fittings and devices, inspect exposed finish. Remove burrs, dirt, and construction debris and repair damaged finishes.
- B. Clean breechings internally, during and after installation, to remove dust and debris. Clean external surfaces to remove welding slag and mill film. Grind welds smooth and apply touchup finish to match factory or shop finish.
- C. Provide temporary closures at ends of breechings, chimneys, and stacks that are not completed or connected to equipment.

END OF SECTION 235100