ADDENDUM NO. 2

New Augusta Public Academy North - Heat Pump Replacement

Project No. 223039.00

MSD of Pike Township Indianapolis, Indiana

Index of Contents

Addendum No. 2, 8 Items Revised Project Manual, Document 00 01 10 – Table of Contents Revised Project Manual, Document 00 41 16 – Bid Form New Project Manual, Section 01 23 00 – Alternates New Project Manual, Section 23 25 00 – HVAC Water Treatment Revised Drawing Sheets: M-502

Date: May 2, 2024

FANNING/HOWEY ASSOCIATES, INC. ARCHITECTS/ENGINEERS/CONSULTANTS

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 2 to Drawings and Project Manual, dated April 5, 2024, for MSD of Pike Township, 3950 W. 56th Street, Indianapolis, Indiana 46278; as prepared by Fanning/Howey Associates, Inc., Indianapolis, Indiana. This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum.

Each bidder shall acknowledge receipt of this Addendum in his proposal or bid.

NOTE: Bidders are responsible for becoming familiar with every item of this Addendum. (This includes miscellaneous items at the very end of this Addendum.)

RE: ALL BIDDERS

ITEM NO. 1. PROJECT MANUAL, TABLE OF CONTENTS

- A. Page 00 01 10-1, DIVISION 01: Add Section 01 23 00 Alternates.
- B. Page 00 01 10-2, DIVISION 23: Add Section 23 25 00 HVAC Water Treatment.

ITEM NO. 2. <u>PROJECT MANUAL, SECTION 00 41 16 – CONTRACTOR'S BID FOR PUBLIC WORK (BID</u> FORM)

A. The Bid Form has been revised for this Project. This revised form, dated 5-2-24, is the applicable form to be used by all bidders and is included with and hereby made a part of this Addendum. Revision includes the addition of Alternate No. 1.

ITEM NO. 3. <u>REVISED PROJECT MANUAL SECTIONS</u>

A. Document 00 01 10 – Table of Contents and Document 00 41 16 – Bid Form have been revised, dated 5-2-24 are included with and hereby made a part of this Addendum.

ITEM NO. 4. NEW PROJECT MANUAL SECTIONS

A. New Project Manual Sections 01 23 00 – Alternates and Section 23 25 00 – HVAC Water Treatment are included with and hereby made a part of this Addendum.

ITEM NO. 5. PROJECT MANUAL, SECTION 23 09 00 - INSTRUMENTATION AND CONTROL FOR HVAC

A. Remove the following section and associated subsections: 2.7, I., 6.

ITEM NO. 6. PROJECT MANUAL, SECTION 23 09 93 - HVAC SEQUENCE OF OPERATION

- A. Revise 2.7E subsections of the specification as follows:
 - "E. Electronic Duct Temperature Sensors
 - 1. All duct sensors shall be installed within metal enclosures that are suitable for the application.
 - 2. AHU/MAU Duct Sensors
 - a. All duct sensors shall be true averaging type sensors with capillary lengths not less than 20 feet long. The only exceptions will be return air and outdoor air sensors. TCC to ensure proper air dispersion over installed capillary length for accurate reading."

ITEM NO. 7. PROJECT MANUAL, SECTION 23 21 13 – HYDRONIC PIPING

- A. Revise 3.9B subsection of the specification as follows:
 - "B. Cleaning Sequence
 - 1. Add cleaner to closed systems at concentration recommended by manufacturer.
 - 2. WSHP Systems: Circulate for 48 hours, then drain systems as quickly as possible. Refill with clean water, circulate for 24 hours, then drain. Refill with clean water and repeat until system cleaner is removed.
 - 3. Use neutralizer agents on recommendation of system cleaner supplier and approval of A/E.
 - 4. Remove, clean, and replace strainer screens.
 - 5. Inspect, remove sludge, and flush low points with clean water after cleaning process is completed. Include disassembly of components as required."
- B. Revise 3.9C subsection of the specification as follows:
 - "C. Closed System Treatment and Cleaning
 - 1. Utilize existing shot feeder to treat closed hydronic system loops."

ITEM NO. 8. REVISED DRAWINGS SHEETS

A. Drawing Sheets: M-502 has been revised, dated 5/02/24, and are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

END OF ADDENDUM

INTRODUCTORY INFORMATION

| 00 01 01 | Project Title Page |
|----------|--------------------|
| | |

00 01 10 Table of Contents

SPECIFICATIONS

BIDDING REQUIREMENTS, CONTRACTOR FORMS AND CONDITIONS OF THE CONTRACT

- 00 11 13 Advertisement for Bids
- 00 21 13 Instructions To Bidders
- 00 26 00.00 Procurement Substitution Procedures
- 00 26 00.01 Substitution Request Form (During Procurement)
- 00 31 00 Available Project Information
- 00 41 16 Contractor's Bid for Public Works (Bid Form)
- 00 43 13 Bid Security Form BID BOND (AIA A310-20101)
- 00 52 00 Agreement Forms STANDARD FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR (AIA A101-2017)
- 00 61 00 Bond Forms PERFORMANCE BOND AND PAYMENT BOND (AIA 312-2010)
- 00 72 00 General Conditions AIA GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION (AIA A201-2017)
- 00 73 10 Employment Eligibility Verification
- 00 73 18 Insurance Requirements Certificate of Insurance

DIVISION 01: GENERAL REQUIREMENTS

- 01 10 00 Summary
- 01 21 00 Allowances
- 01 23 00 Alternate
- 01 26 00 Contract Modification Procedures
- 01 29 00 Payment Procedures
- 01 31 00 Project Management and Coordination
- 01 31 00.15 Request for Interpretation (F/H)
- 01 32 00 Construction Progress Documentation
- 01 33 00 Submittal Procedures
- 01 33 00.03 Digital Data Transmittal
- 01 42 00 References
- 01 50 00 Temporary Facilities and Controls
- 01 57 19 Indoor Air Quality Management (During Construction)
- 01 60 00 Product Requirements
- 01 73 00 Execution
- 01 73 29 Cutting and Patching
- 01 74 13 Construction Cleaning
- 01 77 00 Closeout Procedures

DIVISION 02: EXISTING CONDITIONS

02 41 19 Selective Demolition

DIVISION 07: THERMAL AND MOISTURE PROTECTION

07 84 13 Penetration Firestopping 07 84 43 Joint Firestopping

DIVISION 23: HEATING, VENTILATING, AND AIR CONDITIONING

- 23 05 00 Common Work Results for HVAC
- 23 05 13 Common Motor Requirements for HVAC Equipment
- 23 05 19 Meters and Gages for HVAC Piping
- 23 05 23 General-Duty Valves for HVAC Piping
- 23 05 29 Hangers and Supports for HVAC Piping and Equipment
- 23 05 48 Vibration and Seismic Controls for HVAC Piping and Equipment
- 23 05 53 Identification for HVAC Piping and Equipment
- 23 05 93 Testing, Adjusting, and Balancing for HVAC
- 23 07 00 HVAC Insulation
- 23 09 00 Instrumentation and Control for HVAC
- 23 09 93 HVAC Sequence of Operation
- 23 21 13 Hydronic Piping
- 23 31 13 Metal Ducts
- 23 33 00 Air Duct Accessories
- 23 25 00 HVAC Water Treatment
- 23 81 00 Water Source Heat Pumps

DIVISION 26: ELECTRICAL

- 26 00 05 Electrical Demolition
- 26 00 50 General Electrical Requirements
- 26 05 19 Low-Voltage Electrical Power Conductors and Cables
- 26 05 26 Grounding and Bonding for Electrical Systems
- 26 05 29 Hangers and Supports for Electrical Systems
- 26 05 33 Conduit and Boxes for Electrical Systems
- 26 05 53 Identification for Electrical Systems
- 26 28 13 Fuses
- 26 28 16 Enclosed Switches and Circuit Breakers

END OF TABLE OF CONTENTS

DOCUMENT 00 41 16 - CONTRACTOR'S BID FOR PUBLIC WORKS - FORM 96

PART I

(To be completed for all bids. Please type or print)

| | | Date: |
|----|----------------------------------|-------|
| 1. | Governmental Unit (Owner): | |
| 2. | County: | |
| 3. | Bidder (Firm): | |
| | Address: | |
| | City/State/Zip: | |
| 4. | Telephone Number: | |
| 5. | Agent of Bidder (if applicable): | |

Pursuant to notices given, the undersigned offers to furnish labor and materials necessary to complete the

public works project of the New Augusta Public Academy North - Heat Pump Replacement for MSD Pike

Township (Governmental Unit) in accordance with plans and specifications prepared by Fanning Howey

Associates, Inc., Indianapolis, Indiana and dated April 5, 2024:

ALTERNATE BIDS

If awarded a Contract for the Work, the undersigned also proposes to furnish or to omit labor and material necessary to complete work as required by the following "Alternate Bids". Should the Bidder awarded the work fail to fill in an Alternate Price and later it is found that the contracted work is affected by the Alternate, the Contractor will be required to perform the work for no change in Contract Price.

MARK "ADD" OR "DEDUCT" FOR EACH ALTERNATE

Alternate Bid No. 1 – Provide Basis of Design Manufacturer for Water Source Heat Pumps (WSHP)

| Change the Base Bid the sum of | | | |
|--------------------------------|----------------|---|--------|
| <u> </u> | (sum in words) | | |
| | | | ADD |
| | DOLLARS (\$ |) | DEDUCT |
| | | | |

BASE BID:

| For the sum of | (sum in words) | |
|--------------------|-------------------------------------|-----------------------------------|
| DOLLARS \$ | (sum in figures) | _ |
| Bidder has reviewe | d the Construction Schedule and the | intent of the schedule can be met |

Yes

<u>_____No</u>

PROPOSAL TIME

Bidder agrees that this Bid shall remain in force for a period of sixty (60) consecutive calendar days from the due date, and Bids may be accepted or rejected during this period. Bids not accepted within said 60 consecutive calendar days shall be deemed rejected.

The undersigned acknowledges receipt of the following Addenda:

| Receipt of Addenda No(s). | | |
|-----------------------------|-----|----|
| Attended pre-bid conference | YES | NO |
| Has visited the jobsite | YES | NO |

The undersigned further agrees to furnish a bond or certified check with this Bid for an amount specified in the notice of the letting. If alternate bids apply, the undersigned submits a proposal for each in accordance with the notice. Any addenda attached will be specifically referenced at the applicable page.

If additional units of material included in the contract are needed, the cost of units must be the same as that shown in the original contract if accepted by the governmental unit. If the bid is to be awarded on a unit basis, the itemization of the units shall be shown on a separate attachment.

The contractor and his subcontractors, if any, shall not discriminate against or intimidate any employee, or applicant for employment, to be employed in the performance of this contract, with respect to any matter directly or indirectly related to employment because of race, religion, color, sex, national origin or ancestry. Breach of this covenant may be regarded as a material breach of the contract.

CERTIFICATION OF USE OF UNITED STATES STEEL PRODUCTS (If applicable)

I, the undersigned Bidder or agent as a Contractor on a public works project, understand my statutory obligation to use steel products made in the United States (I.C. 5-16-8-2). I hereby certify that I and all subcontractors employed by me for this Project will use U.S. steel products on this Project if awarded. I understand that violations hereunder may result in forfeiture of contractual payments.

ACCEPTANCE

| The above | e bid is accepted this | day of,, | subject to the |
|-----------|--------------------------------|--------------------------------|----------------|
| following | conditions: | | |
| C | contracting Authority Members: | | |
| _ | | | |
| _ | | | |
| | | | |
| | (For projects of \$10 | 00,000 or more – IC 36-1-12-4) | |
| G | Sovernmental Unit: | | |
| Bi | idder (Firm): | | |
| D | Pate: | | |

These statements to be submitted under oath by each Bidder with and as a part of his bid. Attach additional pages for each section as needed.

SECTION I - EXPERIENCE QUESTIONNAIRE

1. What public works projects has your organization completed for the period of one (1) year prior to the date of the current bid?

| Contract Amount | Class of Work | Completion Date | Name and Address of Owner |
|--------------------|---------------|-----------------|---------------------------|
| | | | |
| | | | |
| | | | |

2. What public works projects are now in process of construction by your organization?

| Contract Amount | Class of Work | Expected Completed Date | Name and Address of Owner |
|--------------------|---------------|-------------------------------|---------------------------|
| | | | |
| | | | |
| | | | |

4. List references from private firms for which you have performed work.

SECTION II - PLAN AND EQUIPMENT QUESTIONNAIRE

1. Explain your plan or layout for performing proposed Work. (Examples could include a narrative of when you could begin work, complete the project, number of workers, etc. and any other information which you believe would enable the governmental unit to consider your bid.)

2. Please list the names and addresses of all subcontractors (i.e. persons or firms outside your own firm who have performed part of the work) that you have used on public works projects during the past five (5) years along with a brief description of the work done by each subcontractor.

3. If you intend to sublet any portion of the Work, state the name and address of each subcontractor, equipment to be used by the subcontractor, and whether you will require a bond. However, if you are unable to currently provide a listing, please understand a listing must be provided prior to contract approval. Until the completion of the proposed project, you are under a continuing obligation to immediately notify all governmental unit in the event that you subsequently determine that you will use a subcontractor on the proposed project.

4. What equipment do you have available to use for the proposed project? Any equipment to be used by subcontractors may also be required to be listed by the governmental unit.

5. Have you entered into contracts or received offers for all materials which substantiate the prices used in preparing your proposal? If not, please explain the rationale used which would corroborate the prices listed.

SECTION III CONTRACTOR'S FINANCIAL STATEMENT

Attachment of Bidder's financial statement is mandatory. Any Bid submitted without said financial statement as required by statute shall thereby be rendered invalid. The financial statement provided hereunder to the governing body awarding the Contract must be specific enough in detail so that said governing body can make a proper determination of the Bidder's capability for completing the Project if awarded.

SECTION IV - CONTRACTOR'S NON-COLLUSION AFFIDAVIT

The undersigned bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to include anyone to refrain from bidding, and that this bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission or thing of value on account of such sale.

SECTION V OATH AND AFFIRMATION

I HEREBY AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE FACTS AND INFORMATION CONTAINED IN THE FOREGOING BID FOR PUBLIC WORKS ARE TRUE AND CORRECT.

| Dated at | this | da | y of | , |
|-----------------------------------|----------------|--------------------|-----------------------|----|
| | | | | |
| | | (Na | me of Organization) | |
| | | Ву | | |
| | | | | |
| | | (Tit | le of Person Signing) | |
| | ACKN | OWLEDGEMENT | | |
| STATE OF |) | | | |
| COUNTY OF |)SS:) | | | |
| Before me, a Notary Public, perso | nally appeare | d the above-named | | |
| and swore that the statements cor | ntained in the | foregoing document | are true and correct. | |
| Subscribed and sworn to before m | ne this | day of | , | 20 |
| | | | | |
| | | | Notary Public | |
| My Commission Expires: | | | | |
| County of Residence: | | _ | | |
| 223039 00 | | 00 41 16-5 | | |

BIDDER REMINDER LIST TO BE COMPLETED AND INCLUDED IN BID PACKAGE FOR REVIEW AT BID OPENING

| | YES | NO |
|---|-----|----|
| Have you properly and completely executed the Form No. 96 (Format) Bid Form (Section 004116)? | | |
| Have you included your company's Financial Statement (Part II, Sect. III)? | | |
| Note that the Non-Collusion Affidavit is part of the new Bid Form and is to be notarized. | | |
| Have you enclosed a certified check or Bid Bond? (Note: bond must be signed by Surety and Principal) | | |
| Have you indicated the Project Name, Bid Category No., and Description on the outside of your Bid envelope? | | |

NOTE: IF ANY OF THE REQUIRED BIDDING DOCUMENTS ARE NOT INCLUDED, DATED, PROPERLY EXECUTED, THE CONTRACTOR'S BID MAY NOT BE ACCEPTED.

END OF DOCUMENT 00 41 16

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on Bid Form for certain work defined in Bidding Requirements that may be added to or deducted from Base Bid amount if Owner decides to accept a corresponding change either in quantity of construction to be completed or in products, materials, equipment, systems, or installation methods described in Contract Documents.
 - 1. The cost or credit for each alternate is net addition to or deduction from Contract Sum to incorporate alternate into Work. No other adjustments are made to Contract Sum.
 - 2. Alternates described in this Section are part of Work only if enumerated in Agreement.

1.3 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of Contract, notify each entity involved, in writing, of status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
- C. Execute accepted alternates under same conditions as other work of Contract.
- D. Schedule: A Schedule of Alternates is included at end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve work described under each alternate.
- PART 2 PRODUCTS (Not Used)

PART 3 - EXECUTION

- 3.1 SCHEDULE OF ALTERNATES
 - A. Alternate No. 1: Provide Basis of Design Manufacturer for Water Source Heat Pumps (WSHP) per Specification Section 23 81 00 if not already included in the Base Bid.

END OF SECTION 01 23 00

SECTION 23 25 00 - HVAC WATER TREATMENT

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following HVAC water-treatment systems:
1. HVAC water-treatment chemicals.

1.2 DEFINITIONS

- A. EEPROM: Electrically erasable, programmable read-only memory.
- B. Low Voltage: As defined in NFPA 70 for circuits and equipment operating at less than 50 V or for remote-control, signaling power-limited circuits.
- C. TDS: Total dissolved solids.

1.3 PERFORMANCE REQUIREMENTS

- A. Water quality for HVAC systems shall minimize corrosion, scale buildup, and biological growth for optimum efficiency of HVAC equipment without creating a hazard to operating personnel or the environment.
- B. Base HVAC water treatment on quality of water available at Project site, HVAC system equipment material characteristics and functional performance characteristics, operating personnel capabilities, and requirements and guidelines of authorities having jurisdiction.

1.4 INFORMATIONAL/QUALITY ASSURANCE/CONTROL SUBMITTALS

- A. Other Informational Submittals:
 - 1. Water-Treatment Program: Written sequence of operation on an annual basis for the application equipment required to achieve water quality defined in the "Performance Requirements" Article above.
 - 2. Water Analysis: Illustrate water quality available at Project site.
 - 3. Passivation Confirmation Report: Verify passivation of galvanized-steel surfaces, and confirm this observation in a letter to Architect.

1.5 CLOSEOUT DOCUMENTS

- A. General: Closeout Submittals are to be submitted with O and M Manuals only. Do not submit with other ACTION and INFORMATIONAL Submittals:
 - 1. Operation and Maintenance Data: For sensors, injection pumps, and controllers to include in emergency, operation, and maintenance manuals.

1.6 QUALITY ASSURANCE

- A. HVAC Water-Treatment Service Provider Qualifications: An experienced HVAC watertreatment service provider capable of analyzing water qualities, installing water-treatment equipment, and applying water treatment as specified in this Section.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

1.7 MAINTENANCE SERVICE

- A. Scope of Maintenance Service: Provide chemicals and service program to maintain water conditions required above to inhibit corrosion, scale formation, biological growth, and glycol concentration for cooling chilled-water piping, heating-hot-water piping, heating, steam and condensate piping, condenser-water piping, and equipment. Services and chemicals shall be provided for a period of one year from date of Substantial Completion, and shall include the following:
 - 1. Initial water analysis and HVAC water-treatment recommendations.
 - 2. Startup assistance for Contractor to flush the systems, clean with detergents, and initially fill systems with required chemical treatment prior to operation.
 - 3. Periodic field service and consultation. Test systems every 2 months, unless noted otherwise.
 - 4. Customer report charts and log sheets.
 - 5. Laboratory technical analysis.
 - 6. Analyses and reports of all chemical items concerning safety and compliance with government regulations.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Ampion Corp.
 - 2. Anderson Chemical Co, Inc.
 - 3. Aqua-Chem, Inc.; Cleaver-Brooks Div.
 - 4. Aqua-Science
 - 5. Barclay Chemical Co.; Water Management, Inc.
 - 6. Boland Trane Services
 - 7. Don Chemical Co.
 - 8. Enerco
 - 9. GE Betz.
 - 10. GE Osmonics.
 - 11. H-O-H Chemicals, Inc.
 - 12. Interstate Chemical Company, Inc.
 - 13. Marathon/Chem-Aqua
 - 14. Metro Group. Inc. (The); Metropolitan Refining Div.
 - 15. Ohio Chemical
 - 16. ONDEO Nalco Company.
 - 17. Protocol
 - 18. Union Carbide Corp.
 - 19. Watcon, Inc.
 - 20. Zinkan Enterprises, Inc.: ChemREADY.

2.2 CHEMICALS

A. Chemicals shall be as recommended by water-treatment system manufacturer that are compatible with piping system components and connected equipment, and that can attain water quality specified in Part 1 "Performance Requirements" Article.

PART 3 - EXECUTION

3.1 WATER ANALYSIS

A. Perform an analysis of supply water to determine quality of water available at Project site.

3.2 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections. Report results in writing.
- B. Perform tests and inspections and prepare test reports.
 - 1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
- C. Tests and Inspections:
 - 1. Inspect field-assembled components and equipment installation, including piping and electrical connections.
 - 2. Inspect piping and equipment to determine that systems and equipment have been cleaned, flushed, and filled with water, and are fully operational before introducing chemicals for water-treatment system.
 - 3. Add water chemicals to the existing shot feeder as specified above.
 - 4. Do not enclose, cover, or put piping into operation until it is tested and satisfactory test results are achieved.
 - 5. Test for leaks and defects. If testing is performed in segments, submit separate report for each test, complete with diagram of portion of piping tested.
 - 6. Leave uncovered and unconcealed new, altered, extended, and replaced water piping until it has been tested and approved. Expose work that has been covered or concealed before it has been tested and approved.
 - 7. Cap and subject piping to static water pressure of 50 psig above operating pressure, without exceeding pressure rating of piping system materials. Isolate test source and allow test pressure to stand for four hours. Leaks and loss in test pressure constitute defects.
 - 8. Repair leaks and defects with new materials and retest piping until no leaks exist.
- D. Remove and replace malfunctioning units and retest as specified above.
- E. Sample boiler water at one-week intervals after boiler startup for a period of five weeks and prepare test report advising Owner of changes necessary to adhere to Part 1 "Performance Requirements" Article for each required characteristic. Sample boiler water at eight-week intervals following the testing noted above to show that chemicals maintaining water quality within performance requirements specified in this Section.
- F. At eight-week intervals following Substantial Completion and during warranty period, perform separate water analyses on hydronic systems to show that chemicals systems are maintaining water quality within performance requirements specified in this Section. Submit written reports of water analysis advising Owner of changes necessary to adhere to Part 1 "Performance Requirements" Article.
- G. Comply with ASTM D 3370 and with the following standards:
 - 1. Silica: ASTM D 859.
 - 2. Steam System: ASTM D 1066.
 - 3. Acidity and Alkalinity: ASTM D 1067.
 - 4. Iron: ASTM D 1068.
 - 5. Water Hardness: ASTM D 1126.

3.3 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain HVAC water-treatment systems and equipment. Refer to Division 01 Section "Demonstration and Training."

END OF SECTION 23 25 00

