

ADDENDUM NO. 1

New Augusta Public Academy North – Heat Pump Replacement – Phase 2
Project No. 223039.01

Fishback Creek Mechanical Renovation – Phase 1
Project No. 223046.01

MSD of Pike Township
Indianapolis, Indiana

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Pre-Bid Meeting Agenda

Date: January 15, 2026

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

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 1 to Drawings and Project Manual, dated December 19, 2025, 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. REVISED PROJECT MANUAL SECTION

- A. Section 01 10 00- Summary has been revised, dated 1/15/26, and is included with and hereby made a part of this Addendum.

ITEM NO. 2. NEW PROJECT MANUAL SECTION

- A. New Project Manual Section 26 22 00 – Low Voltage Transformers is included with and hereby made a part of this Addendum.

ITEM NO. 3. PROJECT MANUAL, SECTION 00 41 16 – BID FORM

- A. The Bid Form has been revised for this Project. This revised form, dated 1/15/26, 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. 7.

These revisions will be reflected on the Bid Forms provided for the convenience of the bidders.

ITEM NO. 4. PROJECT MANUAL, SECTION 01 23 00 - ALTERNATES

- A. Add 3.1, G., as follows (new alternate):
 - “G. Alternate No. 7 – New Augusta Public Academy North: If not already included in the Base Bid, provide Basis of Design Manufacturer for Water Source Heat Pumps (WSHP) per Specification Section 23 81 00.

ITEM NO. 5. NEW DRAWING SHEET – NEW AUGUSTA PUBLIC ACADEMY NORTH

- A. Drawing Sheet No: E-801 – Panelboard Schedule, dated 1/15/26, is included with and hereby made a part of this Addendum.

ITEM NO. 6. REVISED DRAWING SHEETS – NEW AUGUSTA PUBLIC ACADEMY NORTH

- A. Drawing Sheets: C01, M-002, M-401, M-402, M-601, E-402, E-403, and E-404 have been revised, dated 1/15/26, and are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

ITEM NO. 7. REVISED DRAWING SHEETS – FISHBACK CREEK ELEMENTARY

- A. Drawing Sheets: M-002 and M-602 have been revised, dated 1/15/26, and are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

ITEM NO. 8. DRAWING SHEET – FISHBACK CREEK ELEMENTARY – E-402

- A. Remove and replace Keynote P12 as follows:

“P12 Provide emergency stop switch connected to contactor to remove power from Boilers. See Detail on Sheet E-501.”

END OF ADDENDUM

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 – Phase 2 and Fishback Creek Mechanical Renovation – Phase 1 for MSD Pike Township (Governmental Unit) in accordance with plans and specifications prepared by Fanning Howey Associates, Inc., Indianapolis, Indiana and dated December 19, 2025:

BASE BID 1 – New Augusta Public Academy North – Heat Pump Replacement – Phase 2 – 223039.01:

For the sum of _____
(sum in words)

DOLLARS \$ _____
(sum in figures)

BASE BID 2 – Fishback Creek Mechanical Renovation – Phase 1 – 223046.01:

For the sum of _____
(sum in words)

DOLLARS \$ _____
(sum in figures)

COMBINED BIDS: Any bidders desiring to submit a combined bid for two or more Base Bid Areas of Work within the same Base Bid Description Area shall so indicate below, together with each Base Bid Area included in the Combined Bid. Refer to Instructions To Bidders for requirements regarding Combined Bids.

BASE BID AREAS INCLUDED	\$ TOTAL AMOUNT OF COMBINED BID
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NOTE: For each Base Bid Area of the combined bid, price for every single Base Bid and all alternatives of those Base Bids must be indicated on the previous Bid Form sheets.

BIDDER: Will you accept an award based on any one or more of the Base Bids included in the above Combined Bid?
 Yes _____ No _____

Bidder has reviewed the Construction Schedule and the intent of the schedule can be met.

_____ Yes	_____ No
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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 – Fishback Creek Elementary: Provide Basis of Design Manufacturer for Condensing Boilers.

Change the Base Bid the sum of _____
 (sum in words)

_____ DOLLARS (\$ _____)	ADD DEDUCT
(sum in figures)	

Alternate Bid No. 2 – Fishback Creek Elementary: Provide Basis of Design Manufacturer for Fan-Powered Air Terminal Units and Shutoff Single-Duct Air Terminal Units

Change the Base Bid the sum of _____
 (sum in words)

_____ DOLLARS (\$ _____)	ADD DEDUCT
(sum in figures)	

Alternate Bid No. 3 – Fishback Creek Elementary: Provide Basis of Design Manufacturer for Air-Cooled Rotary Chiller with remote Condenser.

Change the Base Bid the sum of _____
(sum in words)
_____ DOLLARS (\$ _____)
(sum in figures) ADD
DEDUCT

Alternate Bid No. 4 – Fishback Creek Elementary: Provide Basis of Design Manufacturer for Hydronic Pumps.

Change the Base Bid the sum of _____
(sum in words)
_____ DOLLARS (\$ _____)
(sum in figures) ADD
DEDUCT

Alternate Bid No. 5 – Fishback Creek Elementary: Provide additional equipment for Heating Hot Water Plant

Change the Base Bid the sum of _____
(sum in words)
_____ DOLLARS (\$ _____)
(sum in figures) ADD
DEDUCT

Alternate Bid No. 6 – New Augusta Public Academy North: Provide (8) eight new pumps related accessories.

Change the Base Bid the sum of _____
(sum in words)
_____ DOLLARS (\$ _____)
(sum in figures) ADD
DEDUCT

Alternate Bid No. 7 – New Augusta Public Academy North: Provide Basis of Design Manufacturer for Water Source Heat Pumps (WSHP).

**Change the Base Bid the sum of _____
(sum in words)
_____ DOLLARS (\$ _____)
(sum in figures) ADD
DEDUCT**

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 bid is accepted this _____ day of _____, _____, subject to the following conditions: _____

Contracting Authority Members:

_____	_____
_____	_____
_____	_____

PART II

(For projects of \$100,000 or more – IC 36-1-12-4)

Governmental Unit: _____

Bidder (Firm): _____

Date: _____

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

3. Have you ever failed to complete any work awarded to you? _____ If so, where and why?

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.

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

SECTION 01 10 00 - SUMMARY

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Project information.
 - 2. Work covered by the Contract Documents.
 - 3. Work under other Contracts.
 - 4. Use of premises.
 - 5. Owner's right to maintain school operations.
 - 6. Work restrictions.
 - 7. Specification formats and conventions.
 - 8. Permits, fees, and notices.
 - 9. Contractors Construction Sequence
- B. Related Sections include the following:
 - 1. Division 01 Section "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.2 PROJECT INFORMATION

- A. Project Identification:
 - 1. New Augusta Public Academy North – Heat Pump Replacement – Phase 2, 6450 Rodebaugh Road, Indianapolis, Indiana 46268.
 - 2. Fishback Creek Mechanical Renovation – Phase 1, 8301 W. 86th Street, Indianapolis, Indiana 46278.
- B. Owner: MSD of Pike Township, 3950 W. 56th Street, Indianapolis, IN 46278
 - 1. Owner's Representative: Clayton Gruber

1.3 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work consists of the following:
 - 1. Demolition of existing mechanical equipment and replacement with new equipment, controls, equipment accessories, and connections to provide new operable and fully controlled equipment at completion.
- B. Type of Contract
 - 1. Project will be constructed under a single lump sum Contract for work at each building or via a combined bid single lump sum Contract.
 - 2. **Individual bids are required for work at each building or a single building.**
 - 3. **Combined bids for the work at both buildings will also be considered. If a combination bid is provided, individual bids are still required for the work at each building.**

1.4 WORK UNDER OTHER CONTRACTS

- A. General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract. Coordinate the Work of this Contract with work performed under separate contracts.
- B. The Owner intends to complete the following items of Work outside the provisions of these Contract Documents. The Contractor shall not restrict or interfere with the Owner's right to the Project to accomplish this Work.
 - 1. Existing school maintenance work.
 - 2. The purchase and supplying of certain materials as noted in the Project Manual.

1.5 USE OF PREMISES (ACCESS TO SITE)

- A. General: Contractor shall have limited use of premises for construction operations as indicated on Drawings by the Contract limits and as indicated by requirements of this Section.
 - 1. Work required outside the areas of construction must be approved by the Owner and A/E with a minimum of 72 hour notice.
- B. Use of Site and Building: Limit use of premises to work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
 - 1. Owner Occupancy: Allow for Owner occupancy of project building, project site and use by the public.
 - 2. Driveways and Entrances: Keep driveways parking area, loading areas, and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use undesignated areas for parking or storage of materials.
 - a. Schedule deliveries to minimize use of driveways and entrances.
 - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
 - c. Schedule should be developed around the times of the school buses leaving and arriving at the facility in the morning and afternoon. Owner to provide bus schedule during pre-construction meeting.
- C. Use of Existing Building: Maintain existing building in a weathertight condition throughout construction period. Repair damage caused by construction operations. Protect building and its occupants during construction period.
- D. Project Security: Contractor shall comply with Owner's security program throughout the Project Schedule including the securing of building entrances and exits at all times work is occurring in the building.
- E. Existing furniture/loose equipment: Within areas of work the Contractor will be responsible for removal or relocation of all furniture/loose equipment items including but not limited to desk, chairs, furniture, furnishings, bookcases, loose cabinetry, and equipment not physically attached to other surfaces in order to complete the required new Work.

PART 2 - PRODUCTS

2.1 OWNER'S RIGHT TO MAINTAIN SCHOOL OPERATIONS

- A. During the course of this Project, normal and customary functions and operations must be maintained. The Contract Documents are intended to define a strict separation between the school activities of students and staff from the activities of the construction project.
- B. The A/E and Owner will not tolerate any visible or audible actions initiated or responded to by any employees of Contractors on this Project toward any students, teachers, or staff members at the school system. Violators shall be promptly removed from the site.
- C. The Owner intends to instruct students, teachers, and staff to refrain from communications with Contractor's personnel working on this Project. All communication with Owner and staff shall be through the A/E.
- D. Contractors shall expend their best effort toward protection of the health, safety, and welfare of occupants on the Owner's property during the course of Work on this Project.

- E. Contractors and subcontractors shall be subject to such rules and regulations for the conduct of the Work as the Owner may establish. Employees shall be properly and completely clothed while working. Bare torsos, legs, and feet will not be allowed. Possession or consumption of alcoholic beverages or drugs, tobacco, or other noxious behavior on the Project site is strictly prohibited. Violators shall be promptly removed from the Project site. Smoking is not permitted on school property or within school buildings.

2.2 OWNER'S OCCUPANCY REQUIREMENTS

- A. Full Owner Occupancy: Owner will occupy Project site and existing building during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits, unless otherwise indicated.
 - 1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and authorities having jurisdiction.
 - 2. Provide not less than 72 hours' notice to Owner of activities that will affect Owner's operations.
- B. Owner Limited Occupancy of Completed Areas of Construction: Owner reserves the right to occupy and to place and install equipment in completed areas of building, before Substantial Completion, provided such occupancy does not interfere with completion of the Work. Such placement of equipment and partial occupancy shall not constitute acceptance of the total Work.
 - 1. A/E will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied before Owner occupancy.
 - 2. Obtain a Certificate of Occupancy from authorities having jurisdiction before Owner occupancy.
 - 3. Before partial Owner occupancy, mechanical and electrical systems shall be fully operational, and required tests and inspections shall be successfully completed. On occupancy, Owner will operate and maintain mechanical and electrical systems serving occupied portions of building.
 - 4. On occupancy, Owner will assume responsibility for maintenance and custodial service for occupied portions of building.

2.3 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.
 - 1. Comply with limitations on use of public streets and other requirements of authorities having jurisdiction.
- B. On-Site Work Hours: Refer to Construction Sequence Article for additional information.
 - 1. Work hours shall be in compliance with applicable Local Ordinances.
 - 2. Extended evening, weekend and early morning hours must be coordinated with Owner, building custodians and building alarm systems.
 - 3. Hours for Utility Shutdowns: Not while school is in session or school activities are scheduled. Coordinate with Owner and A/E.
 - 4. A supervisor or construction foreman must be present at building site during work hours, after hours with work hours and weekend work hours.
 - 5. Contractor must be available during normal business hours to receive deliveries at the project site or schedule deliveries when the Contractor is on site. The Owner will not accept any deliveries for the Contractor.
 - 6. The Owner will only be available during normal working hours, Monday through Friday.
 - 7. The A/E representative will be available only until 5:00 pm, Monday through Friday.
- C. Definitions
 - 1. Ambient Noise Level: The total noise associated with a given environment, being usually a composite of normal or existing sounds from all sources near and far, excluding the noise source at issue.

2. Daytime: The hours from 7 a.m. to 9 p.m. on weekdays and 9 a.m. to 9 p.m. on weekends and holidays.
3. Nighttime: All non-daytime hours.
4. Property Line: The real or imaginary line along the ground surface and its vertical extension, which separates real property owned or controlled by one person from contiguous real property owned or controlled by another person or from any public right-of-way or from any public space.
5. Receiving Noise Area: Any real property where people live or work and where noise is heard, excluding the project or source area.

D. Noise Control: Perform deconstruction operations to minimize noise. Coordinate operations that may result in high levels of noise or other disruptions to Owner occupancy with Owner.

1. Notify A/E and Owner not less than two days in advance of proposed disruptive operations.

E. Repetitive and/or intermittent, high-level noise: Permitted only during daytime.

1. Do not exceed the following dB limitations:

<u>Sound Level in dB</u>	<u>Time Duration of Impact Noise</u>
70	More than 12 minutes in any hour
80	More than 3 minutes in any hour

2. Provide equipment, sound-deadening devices, and take noise abatement measures that are necessary for compliance.

3. Maximum permissible construction equipment noise levels at 50 feet (dB):

<u>EARTHMOVING</u>	<u>dB</u>	<u>MATERIALS HANDLING</u>	<u>dB</u>
Front Loaders	75	Concrete Mixers	75
Backhoes	75	Concrete Pumps	75
Dozers	75	Cranes	75
Tractors	75	Derricks Impact	75
Scrapers	80	Pile Drivers	95
Graders	75	Jack Hammers	75
Trucks	75	Rock Drills	80
Pavers, Stationary	80	Pneumatic Tools	80
Pumps	75	Saws	75
Generators	75	Vibrators	75
Compressors	75		

F. Ambient Noise:

1. Maximum noise levels (dB) for receiving noise area at property line shall be as follows:

a. Residential receiving area	Daytime: 65 dB
	Nighttime: 60 dB
b. Commercial/Industrial receiving area	Daytime: 67 dB
	Nighttime: 65 dB

2. In the event the existing local ambient noise level exceeds the maximum allowable receiving noise level (dB), the receiving noise level maximum for construction operations shall be adjusted as follows:

- a. Residential receiving area: Maximum 3 additional dB above the local ambient as measured at property line.
- b. Commercial/Industrial receiving area: Maximum 5 additional dB above the local ambient as measured at the property line.

G. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:

1. Notify A/E, and Owner not less than 72 hours in advance of proposed utility interruptions.
2. Do not proceed with utility interruptions without Owner written permission.

3. There will be no utility or service interruptions while school is in session. All work of this type will have to be scheduled during the evening hours, weekends, or during school breaks.
- H. Nonsmoking Building: Smoking is not permitted within the building or on the Project Site.
- I. Controlled Substances: Use of tobacco products and other controlled substances within the building and on the Project site is not permitted.
1. Use of any type or form of E-cigarettes and pipes is strictly prohibited and shall be classified as a tobacco type product or controlled substance.
- J. Employee Screening: Comply with Owner's requirements regarding background screening of Contractor personnel working on the Project site.
1. Maintain list of approved screened personnel with Owner's Representative.
 - a. Background check information shall be submitted to Al Kasper, MSD of Pike Township.
 2. Owner will require background check information including but not limited to Expanded Criminal History, Indiana Child Protective Service checks, Expanded Child Protective Index checks and Out of State Child Welfare Agency checks as required by the State of Indiana and Indiana Department of Child Services. Contractor shall include the cost of background check screening and reporting for all staff members anticipated on the project site in their bid. This also includes sub-contractor workforce.
 - a. Entities providing the background check information shall be approved by the Owner. One approved entity is Safe Hiring Solutions.
 3. A background inquiry for the construction work force is a requirement of the construction contract. No one will be permitted to work on school construction projects adjacent to active school facilities without the completion of a satisfactory background inquiry.
 - a. Documentation shall be submitted within 10 days of Notice to Proceed. Construction work at the Project site cannot start without properly screened personnel.
 4. Tracking and Reporting: Deliver background inquiry reports to the Owner in hard copy and PDF format.
- K. Employee Identification: Provide identification tags for Contractor personnel working on the Project site. Personnel are required to utilize identification tags at all times.

2.4 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Format: The Specifications are organized into Divisions and Sections using the 50-division format and CSI/CSC's "MasterFormat" numbering system.
1. Section Identification: The Specifications use Section numbers and titles to help cross-referencing in the Contract Documents. Sections in the Project Manual are in numeric sequence; however, the sequence is incomplete because all available Section numbers are not used. Consult the table of contents at the beginning of the Project Manual to determine numbers and names of Sections in the Contract Documents.
 2. Division 01: Sections in Division 01 govern the execution of the Work of all Sections in the Specifications.
- B. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred as the sense requires. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.

2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.
 - a. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
- C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
 1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
 2. Abbreviations: Materials and products are identified by abbreviation published as part of the U.S. National CAD Standard, unless otherwise noted on Drawings.
 3. Keynoting: Materials and products are identified by reference keynotes referencing Specification Section numbers found in this Project Manual.

2.5 PERMITS, FEES, AND NOTICES

- A. Each Contractor shall give notices and comply with laws, ordinances, rules, regulations, and orders of public authorities bearing on the performance of his Work. If a Contractor observes that the Contract Documents are at variances therewith, he shall promptly notify the A/E in writing, and necessary changes shall be adjusted by appropriate notification. If a Contractor performs Work knowing it to be contrary to such laws, ordinances, rules, and regulations, and without such notice to the A/E, he shall assume full responsibility therefore and shall bear the costs attributable thereto.

2.6 MISCELLANEOUS PROVISIONS

- A. Contractors shall enforce strict discipline and good order among his employees or other persons carrying out Work of his Contract and shall not permit employment of unfit person or persons or anyone not skilled in the task assigned to them.
- B. When verification of existing dimensions is required, the Contractor requiring said verification for the construction or fabrication of his material shall be the Contractor responsible for the procurement of the field information.
- C. Do not scale documents.
- D. Hazardous Materials: The Contractor in addition to products banned as part of the Clean Air Act (NESHAP Rule, Nov. 1990 Revision; 40 CFR 60, Subpart M) shall not use or bring on-site materials containing more than 1 percent asbestos by polarized-light microscopy (PLM) analysis. No materials marked as "MAY CONTAIN MINERAL FIBERS" shall be used in construction unless written results of microscopic examination by an AIHA or NVLAP-certified laboratory documenting the asbestos content at less than 1 percent are provided and approved before installation.
 1. If material containing more than 1 percent asbestos is brought onto Project site by Contractor, materials shall be removed in accordance with all applicable laws and precautions so as not to make fibers friable. Removal of materials containing more than 1 percent asbestos and replacement of such materials shall be at Contractor's expense.

2.7 GENERAL REQUIREMENTS OF CONTRACTS

- A. Confirmation or verification of the items listed below being obtained or in-place by the Contractor must be submitted to the A/E and Owner prior to execution of the Contract for Construction.

- B. Prime Contractors and all subcontractors, whatever tier, prior to performing any construction work must be qualified by either the Indiana Department of Administration or INDOT, IC 4-13, 6-4.
1. Prime Contractor certifies that not less than fifteen percent of the work, measured in dollar volume, will be performed by its own forces.
 - a. If requested by the Owner, Contractor shall submit copies of his payroll records showing the hours, rates and total costs for all personnel on the payroll detailed to the degree to ensure compliance with this paragraph.
- C. Contractor shall have in place a mandatory drug testing plan for all employees and all subcontractors utilized. Drug testing requirements shall meet or exceed the requirements set in Indiana Code 4-13-18-5 or IC 4-13-18-6.
- D. E-Verify Compliance: Pursuant to Indiana Code 22-5-1.7, Contractor shall enroll in and verify the work eligibility status of all newly hired employees of Contractor through the E-Verify Program. Contractor must execute an affidavit affirming that the Contractor does not knowingly employ an unauthorized alien and confirming Contractor's enrollment in the E-Verify Program. Affidavit shall be filed with the Owner prior to the execution of this Contract. The Contract shall not be deemed fully executed until such affidavit is delivered to the Owner.
1. Contractor and its subcontractors shall not knowingly employ or contract with an unauthorized alien or retain an employee or contract with a person that contractor or list subcontractors subsequently learn is an unauthorized alien.
 2. Prior to performing any work, Contractor shall require each subcontractor to certify to Contractor that the subcontractor does not knowingly employ or contract with an unauthorized alien and has enrolled in the E-Verify Program. Contractor shall maintain on file a certification from each subcontractor throughout the duration of this Contract or project.
- E. Pursuant to Indiana Code 5-16-13 Requirements for Contractors on Public Works Projects:
1. Tier 1 – General/Prime Contractors shall self-perform 15 percent of their total Contract through direct labor, materials or services.
 2. Mandatory enrollment in E-Verify program by all contractors down to the 4th Tier Sub-Contracts and must provide the case verification number of all employees working on the project.
 3. Contractors down to the 4th Tier Sub-Contract cannot pay employees in cash.
 4. All Contractors down to the 4th Tier Sub-Contract must comply with Fair Labor Act, Indiana's Workers Compensation and Unemployment Compensation Insurance.
- F. Access to Records: The Contractor and its subcontractors, if any, shall maintain all books, documents, papers, accounting records, and other evidence pertaining to all costs incurred under this Contract. They shall make such materials available at their respective offices at reasonable times during the Contract and for three (3) years from the date of final payment under this Contract, for inspection by the State or its authorized deisgnees.
- G. Minimum Insurance Requirements:
1. All Contractors down to the 4th Tier Sub-Contract must maintain general liability insurance in at least the following amounts: Each Occurrence Limit of \$1,000,000 and General Aggregate Limit of \$2,000,000. Other requirements and limits may apply see Division 01 Section "Insurance Requirements". Where conflicting limits occur, the higher limit shall be provided.

- H. Training:
1. Prime Contractors or any subcontractor, whatever tier, employs 10 or more employees then such contractor must provide access to a training program applicable to the tasks to be performed in the normal course of an employee's employment.
 2. Prime Contractors or first tier subcontractors employing more the 50 journeymen shall participate in an apprenticeship or training program that meets the standards established by or has been approved by any of the following U.S. Department of Labor, Bureau of Apprenticeship and Training, the Indiana Department of Labor, The Federal Highway Administration or INDOT.

2.8 CONTRACTOR'S CONSTRUCTION SEQUENCE – NEW AUGUST PUBLIC ACADEMY NORTH – HEAT PUMP REPLACEMENT – PHASE 2

- A. The sequence of construction is based upon receiving bids on January 22, 2026.
- B. Work Phases: Work can begin on site once equipment and materials are procured.**
1. **Building must be appropriately tempered whenever school is in session.**
 2. **School buildings will be unoccupied during the summer of 2026, Fall Break 2026, Winter Break 2026, Spring Break 2027, Summer Break 2027, and Fall Break 2027.**
 - a. **During periods when school is not in session, work can occur throughout the building during the hours of 7:00 am to 10:00 pm, Monday through Friday.**
 - b. **During periods when school is in session, work can occur once the school days is complete, 4:30 pm to 10:00 pm.**
 - 1) **All construction materials and equipment must be returned and stored to designated area at end of each day before the start of the next school day.**
 - c. **Weekend hours: Only as approved by the Owner.**
 - d. **Shut down of the HVAC systems can only occur after school hours and on weekends. Building must remain operational and under temperature control when school is in session and during school events. Shut down of system must still be coordinated with Owner to avoid scheduled school extracurricular activities and events.**
 - e. **Construction schedules must accommodate and incorporate construction durations for the temperature control sub-contractor to complete their required work and make systems/equipment operational.**
- C. **Bidders are welcome to consider temporary heating and/or cooling measures that keep the buildings appropriately tempered if that allows work to proceed more efficiently and without interruption.**
- D. **Bidders are to propose and develop a construction schedule based on these outlined points to be reviewed with the A/E and Owner.**
- E. **The Owner is open to extending the construction schedule into the Fall of 2027 if longer construction periods make it easier to complete work efficiently with less impact on school operations when school is in session.**
- F. **Equipment and materials required for the project obtained prior to the start of construction date shall be stored off-site or on-site in a lockable secure storage container. Costs for storage, insurance, handling, etc. of these items are the responsibility of the Contractor and shall be included in the bid. Storage space is not available within the school building.**
- G. **If equipment and materials are received prior to the work beginning on site date, Contractor may start early following the evening work schedule when school is in session or work schedule when school is not in session. The existing HVAC systems must remain fully functional during occupied hours when school is in session.**

2.9 CONTRACTOR'S CONSTRUCTION SEQUENCE – FISHBACK CREEK MECHANICAL RENOVATION – PHASE 1

- A. The sequence of construction is based upon receiving bids on January 22, 2026.
- B. Work Phases: Work can begin on site once equipment and materials are procured.**
1. **Building must be appropriately tempered whenever school is in session.**
 2. **School buildings will be unoccupied during the summer of 2026, Fall Break 2026, Winter Break 2026, Spring Break 2027, Summer Break 2027, and Fall Break 2027.**
 - f. **During periods when school is not in session, work can occur throughout the building during the hours of 7:00 am to 10:00 pm, Monday through Friday.**
 - g. **During periods when school is in session, work can occur once the school days is complete, 4:30 pm to 10:00 pm.**
 - 1) **All construction materials and equipment must be returned and stored to designated area at end of each day before the start of the next school day.**
 - h. **Weekend hours: Only as approved by the Owner.**
 - i. **Shut down of the HVAC systems can only occur after school hours and on weekends. Building must remain operational and under temperature control when school is in session and during school events. Shut down of system must still be coordinated with Owner to avoid scheduled school extracurricular activities and events.**
 - j. **Construction schedules must accommodate and incorporate construction durations for the temperature control sub-contractor to complete their required work and make systems/equipment operational.**
- C. **Bidders are welcome to consider temporary heating and/or cooling measures that keep the buildings appropriately tempered if that allows work to proceed more efficiently and without interruption.**
- D. **Bidders are to propose and develop a construction schedule based on these outlined points to be reviewed with the A/E and Owner.**
- E. **The Owner is open to extending the construction schedule into the Fall of 2028 if longer construction periods make it easier to complete work efficiently with less impact on school operations when school is in session.**
- F. **Equipment and materials required for the project obtained prior to the start of construction date shall be stored off-site or on-site in a lockable secure storage container. Costs for storage, insurance, handling, etc. of these items are the responsibility of the Contractor and shall be included in the bid. Storage space is not available within the school building.**
- G. **If equipment and materials are received prior to the work beginning on site date, Contractor may start early following the evening work schedule when school is in session or work schedule when school is not in session. The existing HVAC systems must remain fully functional during occupied hours when school is in session.**

END OF SECTION 01 10 00

SECTION 26 22 00 - LOW-VOLTAGE TRANSFORMERS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following types of dry-type transformers rated 600 V and less, with capacities up to 1000 kVA:
 - 1. Distribution transformers.

1.2 SUBMITTALS

- A. Shop Drawings: Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
 - 1. Wiring Diagrams: Power, signal, and control wiring.
- B. Quality Assurance/Control Submittals:
 - 1. Product Data: Include rated nameplate data, capacities, weights, dimensions, minimum clearances, installed devices and features, and performance for each type and size of transformer indicated.
 - 2. Source quality-control test reports.
 - 3. Field quality-control test reports.

1.3 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 transformers to include in emergency, operation, and maintenance manuals.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain each transformer type through one source from a single manufacturer.
- 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.
- C. Comply with IEEE C57.12.91, "Test Code for Dry-Type Distribution and Power Transformers."

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Temporary Heating: Apply temporary heat according to manufacturer's written instructions within the enclosure of each ventilated-type unit, throughout periods during which equipment is not energized and when transformer is not in a space that is continuously under normal control of temperature and humidity.

1.6 COORDINATION

- A. Coordinate installation of wall-mounting and structure-hanging supports with actual transformer provided.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. In other Part 2 articles where title below introduces lists, the following requirement applies for product selection:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by the manufacturers specified.
- B. Products of other manufacturers will be considered for acceptance only when allowed in Section 260050, General Electrical Requirements.

2.2 GENERAL TRANSFORMER REQUIREMENTS

- A. Description: Factory-assembled and -tested, air-cooled units for 60-Hz service.
- B. Cores: Grain-oriented, non-aging silicon steel.
- C. Coils: Continuous windings without splices except for taps.
 - 1. Internal Coil Connections: Brazed or pressure type.
 - 2. Coil Material: Aluminum or copper.

2.3 DISTRIBUTION TRANSFORMERS

- A. Manufacturers:
 - 1. ACME Electric Corporation; Power Distribution Products Division.
 - 2. Eaton Corporation; Cutler-Hammer Products.
 - 3. Federal Pacific Transformer Company; Division of Electro-Mechanical Corporation.
 - 4. Hammond Co.; Matra Electric, Inc.
 - 5. Jefferson Electric.
 - 6. Siemens Energy & Automation, Inc.
 - 7. Sola/Hevi-Duty.
 - 8. Square D; Schneider Electric.
- B. Comply with NEMA ST 20 and list and label as complying with UL 1561.
- C. Provide transformers that are constructed to withstand seismic forces specified in Division 26 Section "Vibration and Seismic Controls for Electrical Systems."
- D. Cores: One leg per phase.
- E. Indoor Enclosure: Ventilated, NEMA 250, Type 2.
- F. Outdoor Enclosure: Ventilated, NEMA 250, Type 3R.
 - 1. Core and coil shall be encapsulated within resin compound, sealing out moisture and air.
- G. Taps for Transformers Smaller Than 3 kVA: None.
- H. Taps for Transformers 7.5 to 24 kVA: Two 5 percent taps below normal full capacity.
- I. Taps for Transformers 25 kVA and Larger: Two 2.5 percent taps above and four 2.5 percent taps below normal full capacity.
- J. Insulation Class for Transformers Rated 14 kVA and Smaller: 180 deg C, UL-component-recognized insulation system with a maximum of 115 deg C rise above 40 deg C ambient temperature.

- K. Insulation Class for Transformers Rated 15 kVA and Larger: 220 deg C, UL-component-recognized insulation system with a maximum of 150 deg C rise above 40 deg C ambient temperature.
- L. Wall Brackets: Manufacturer's standard brackets.
- M. Low-Sound-Level Requirements: Minimum of 3 dBA less than NEMA ST 20 standard sound levels when factory tested according to IEEE C57.12.91.
- N. Terminal Boards: Provide top or bottom mounted terminal boards for transformers rated 25 kVA and larger. Loose leads are not acceptable.
- O. Equipment lugs: Provide a mechanical ground lug to the transformer enclosure. In addition, provide a separate ground bar inside the transformer enclosure from termination of all grounding conductors. Refer to grounding details on drawings for location of neutral bonding jumper and method of installation for separately derived systems.
- P. Three-Phase Transformer Minimum Impedance Requirements, Percent Z:
 - 1. 15 kVA: 5.0.
 - 2. 30 kVA: 4.9.
 - 3. 45 kVA: 4.8.
 - 4. 75 kVA: 4.4.
 - 5. 112.5 kVA: 3.9.
 - 6. 150 kVA: 4.4.
 - 7. 225 kVA: 3.9.
 - 8. 300 kVA: 5.5.
 - 9. 500 kVA: 6.0.
 - 10. 750 kVA: 5.4.

2.4 TRANSFORMER SURGE PROTECTIVE DEVICE

- A. On all transformers, 45KVA and above, provide a surge protective device.
- B. The surge protective device shall be 3 phase with neutral and ground conductor leads. (High Energy), MOV, low-voltage distribution-class surge arrester, designed to provide surge protection at distribution transformer secondary bushings. Externally mounted with thread hud. Conductor leads must be as short as possible.
- C. The surge protective device must pass all design tests for light duty distribution class arresters per IEEE Std C62.11™ -1993 standard.
- D. Manufacturer shall be Cooper Power Systems Storm Trapper H.E. The Storm Trapper H.E. or Engineer approved equal.

2.5 IDENTIFICATION DEVICES

- A. Nameplates: Engraved, laminated-plastic or metal nameplate for each transformer, mounted with corrosion-resistant screws. Nameplates and label products are specified in Division 26 Section "Identification for Electrical Systems."

2.6 SOURCE QUALITY CONTROL

- A. Test and inspect transformers according to IEEE C57.12.91.
- B. Factory Sound-Level Tests: Conduct sound-level tests on equipment for this Project.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine conditions for compliance with enclosure- and ambient-temperature requirements for each transformer.
- B. Verify that field measurements are as needed to maintain working clearances required by NFPA 70 and manufacturer's written instructions.
- C. Examine walls, floors, roofs, and concrete bases for suitable mounting conditions where transformers will be installed.
- D. Verify that ground connections are in place and requirements in Division 26 Section "Grounding and Bonding for Electrical Systems" have been met. Maximum ground resistance shall be 5 ohms at location of transformer.
- E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with NECA 409.
- B. Install wall-mounting transformers level and plumb with wall brackets fabricated by transformer manufacturer.
 - 1. Brace wall-mounting transformers as specified in Division 26 Section "Vibration and Seismic Controls for Electrical Systems."
- C. Install and anchor floor-mounting transformers level on concrete bases, 4-inch nominal thickness. Concrete base is specified in Division 26 Section "Hangers and Supports for Electrical Systems," and concrete materials and installation requirements are specified in Division 03.
 - 1. Install dowel rods to connect concrete base to concrete floor. Unless otherwise indicated, install dowel rods on 18-inch centers around full perimeter of base.
 - 2. For floor-mounting transformers, install epoxy-coated anchor bolts that extend through concrete base and anchor into structural concrete floor.
 - 3. Place and secure anchorage devices. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
 - 4. Install anchor bolts to elevations required for proper attachment to floor-mounting transformers.
- D. Construct concrete bases and anchor floor-mounting transformers according to manufacturer's written instructions, seismic codes applicable to Project, and requirements in Division 26 Section "Vibration and Seismic Controls for Electrical Systems."

3.3 CONNECTIONS

- A. Ground equipment according to Division 26 Section "Grounding and Bonding for Electrical Systems." Bond to adjacent steel building structure.
- B. Connect wiring according to Division 26 Section "Low-Voltage Electrical Power Conductors and Cables."

3.4 FIELD QUALITY CONTROL

- A. Perform tests and inspections and prepare test reports.

- B. Tests and Inspections:
 - 1. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters.
- C. Remove and replace units that do not pass tests or inspections and retest as specified above.
- D. Test Labeling: On completion of satisfactory testing of each unit, attach a dated and signed "Satisfactory Test" label to tested component.

3.5 ADJUSTING

- A. Record transformer secondary voltage at each unit for at least 48 hours of typical occupancy period. Adjust transformer taps to provide optimum voltage conditions at secondary terminals. Optimum is defined as not exceeding nameplate voltage plus 10 percent and not being lower than nameplate voltage minus 3 percent at maximum load conditions. Submit recording and tap settings as test results.
- B. Output Settings Report: Prepare a written report recording output voltages and tap settings.

3.6 CLEANING

- A. Vacuum dirt and debris; do not use compressed air to assist in cleaning.

END OF SECTION 26 22 00

PREBID CONFERENCE AGENDA

MSD of Pike Township
Indianapolis, Indiana

Date: January 8, 2026 at 10:00 a.m.

Re: Mechanical Projects:
New Augusta Public Academy North Middle School – Phase 2
Fishback Creek Public Academy Elementary School
MSD of Pike Township
Indianapolis, IN
Project Nos. 223029.01; 223046.02

Present: Refer to attached Prebid Sign-in Sheet

1. **Advertisement to Bidders:**

Per the information contained in the Advertisement to Bidders in the Project Manual, bids will be received until **9:30 a.m. on January 22, 2026** in Room A115A of the MSD of Pike Township – Transportation and Facility Center, Attn: Director of Facilities & Security, 3950 West 56th Street, Indianapolis, IN 4625. Bids will be opened publicly and read aloud immediately after specified closing time. Bids may be held for 60 days.

2. **Obtaining Bid Documents:**

To obtain documents Bidders will be required to register at the Eastern Engineering, 317-598-0661, website (distribution.easternengineering.com), to become a plan holder for the Project. Once registered, Bidders can download the complete set of documents in .PDF form free of charge. Registered bidders will receive electronic distribution of addendums and other electronic communications during the bidding period. Bidders can purchase hard copies of the documents from Eastern Engineering for the cost of printing as established by the Printer. No partial sets will be issued.

3. **Instructions to Bidders:**

Per the information contained in the Project Manual, Bids shall be executed on the Bid Proposal Form provided (Section 004116). Other information to be included with the bid form is outlined in the Instructions to Bidders (Section 002113). Each bidder is required to bid every item called for on the bid form, including alternates, and allowances.

4. **Identification of Submission of Bid Proposal:**

Per the Instructions to Bidders, the Bid Proposal shall be submitted in an envelope identified with the name of the project, name of the bidder, base bid package, and the date and closing time of bids. Photocopies of the bid form are acceptable. Refer to the checklist in the Instructions to Bidders to make sure all required documents are submitted with the Bid. Be sure to submit the subcontractor and manufacturer lists with the bid.

Prebid Conference Agenda
Mechanical Projects at New Augusta North and Fishback Creek
MSD of Pike Township
Indianapolis, IN
Project Nos. 223029.01; 223046.02
January 8, 2026 at 10:00 p.m.
Page 2

5. **Bonds:**

See the Instructions to Bidders and the Advertisement to Bidders for the requirements of bid securities and bonds required. Performance and Payment Bonds are for 100% of the bid.

6. **Time of Commencement and Completion of Project:**

The Board will be asked to award a Contract at the Board Meeting on February 12, 2026, after which a Preconstruction Conference will be scheduled.

Drawings for both projects indicate construction starting in the Spring of 2026. The most important drivers for the phasing and scheduling are equipment procurement lead times, and that the buildings must be appropriately tempered whenever school is in session.

The schools will be unoccupied in June through July 2026, Fall Break 2026, Winter Break 2026/27, Spring Break 2027, June through July 2027, and Fall Break 2027.

The MSD of Pike is open to extending this construction window into Fall of 2027 for New Augusta North, and into Fall of 2028 for Fishback, if longer schedules make it easier to complete the work efficiently. Likewise, the Bidders are welcome to consider temporary heating and/or cooling measures that keep the buildings appropriately tempered if that allows work to proceed more efficiently and without interruption.

Schedule for Work will be confirmed at the Preconstruction Meeting referenced above.

7. **Temporary Facilities and Controls:**

Information on temporary facilities and controls are listed in Section 015000 of the Project Manual.

8. **Addenda:** – will be issued by Thursday, January 15, 2025.

9. **Questions and Clarifications:**

Per the instructions in the Project Manual, questions should be emailed to the appropriate contact person at Fanning Howey and followed up with a telephone call. Contacts and telephone numbers are listed in the Instruction to Bidders. Questions requiring clarifications or revisions will be addressed in an addendum. Any questions can be directed in writing to Dan Hammond at dhammond@fhai.com, Dan Arnold at darnold@fhai.com, and Peter Winters at pwinters@fhai.com

Prebid Conference Agenda
Mechanical Projects at New Augusta North and Fishback Creek
MSD of Pike Township
Indianapolis, IN
Project Nos. 223029.01; 223046.02
January 8, 2026 at 10:00 p.m.
Page 3

10. **Permits, Fees, and Notices:**

All permits, fees, and notices are the responsibility of the Contractor. The building permit for this Project will be secured by the Contractor once the Board awards the Contract.

11. **Review of Project Scope / Facilities Tour:**

- a. Pike New Augusta Public Academy North Middle School
- b. Pike Fishback Creek Public Academy Elementary School

Peter Winters
Project Manager

Project Name MSD OF PIKE TOWNSHIP
 PIKE NEW AUGUSTA NORTH MIDDLE SCHOOL
 Mechanical Upgrades – Phase 2
 PIKE FISHBACK CREEK ELEMENTARY SCHOOL
 Mechanical Upgrades

Project No. 223046.02
 Meeting Date January 8, 2026

PLEASE PRINT CLEARLY. YOUR NAME AND
 TITLE WILL BE INCLUDED IN THE MEETING
 REPORT.

THANK YOU!

SIGN-IN SHEET

NAME (Please print)	TITLE	COMPANY	PHONE/ FAX	E-MAIL
Clayton Gruber	Director of Facilities & Security	MSD of Pike Township		cgruber@pike.k12.in.us
Peter Winters	Project Manager	Fanning Howey	317.410.1289	pwinters@fhai.com
Dan Hammond	Construction Administrator	Fanning Howey	317.965.3568	dhammond@fhai.com
Dan Arnold	Mechanical Engineer	Fanning Howey		darnold@fhai.com
Trevor Ozenbaugh	Project Man / Estimator	Lehman's Mechanical	765-617-7883	t.ozenbaugh@lehman'smech.enr.net
DAVID LABUDZIK	Estimator	SIEMENS	317-224-3347	david.labudzik@siemens.com
Rob Jordan		PIKE	317-714-1321	RLJORDAN.PIKE.K12.IN.US
Alex Grant Milk	Mech Engineer	PIKE		

FISHBACK CREEK MECHANICAL RENOVATION

8301 W 86TH STREET
INDIANAPOLIS, IN 46278

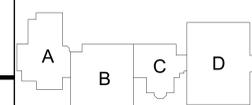
MSD OF PIKE TOWNSHIP



ARCHITECT



317.848.0966 WWW.FHAI.COM
350 EAST NEW YORK ST, SUITE 300, INDIANAPOLIS, IN 46204



KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: JDS
PROJECT NUMBER: 223046.02
PROJECT ISSUE DATE: 12/19/2025

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM #1	01/15/2026

MECHANICAL SCHEDULES

M-602

IDENTITY DATA			LOCATION		SYSTEM SERVED	TYPE	MAX WORKING PRESSURE	TANK SIZE		FLOODED WEIGHT (LBS)	CONNECTION DIAMETER (IN.)	MAX FLOW RATE
MARK	MANUFACTURER	MODEL	# NAME					DIA.	HEIGHT			
ADS-CHW	BELL & GOSSETT	RL-6F	A134 MECHANICAL ROOM		CHILLED WATER PLANT	CENTRIFUGAL TANGENTIAL	125 psig	18"	44"	579	6"	850 GPM
ADS-HW	BELL & GOSSETT	RL-6F	A134 MECHANICAL ROOM		HOT WATER PLANT	CENTRIFUGAL TANGENTIAL	125 psig	18"	44"	579	6"	850 GPM

IDENTITY DATA		LOCATION		SERVICE	MOTOR HP	INTEGRAL BYPASS	ELECTRICAL DATA
MARK	MANUFACTURER	# NAME					
VFC-1	ABB Power Distribution	A134 MECHANICAL ROOM		HWP-4	20	Yes	480 V-3-WHZ
VFC-2	ABB Power Distribution	A134 MECHANICAL ROOM		HWP-5	20	Yes	480 V-3-WHZ
VFC-3	ABB Power Distribution	A134 MECHANICAL ROOM		CHP-3	15	Yes	480 V-3-WHZ
VFC-4	ABB Power Distribution	A134 MECHANICAL ROOM		CHP-4	15	Yes	480 V-3-WHZ

- GENERAL REQUIREMENTS**
- PROVIDE NEMA 1 ENCLOSURE FOR ALL VFDs LOCATED INDOORS.
 - PROVIDE INTEGRAL DISCONNECT.
 - PROVIDE BYPASS WITH VFD.
 - REFER TO SPECIFICATION 23.29.23 FOR ADDITIONAL REQUIREMENTS AND INSTALLATION INSTRUCTIONS.
 - DRIVE PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY THE DIVISION 23 HVAC CONTRACTOR.
 - DIVISION 26 - ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL POWER WIRING TO VFC AND FROM VFC TO MOTOR(S).
 - TCC SHALL PROVIDE AND INSTALL ALL NECESSARY CONTROL WIRING.

IDENTITY DATA			LOCATION		SYSTEM SERVED	TYPE	VOLUME	TANK SIZE	
MARK	MANUFACTURER	MODEL	# NAME					DIA.	HEIGHT
CBF-CHW	NEPTUNE	FTF-5DB	A134 MECHANICAL ROOM		CHILLED WATER	5 MICRON BAG FILTER	5.0 gal	10"	32"
CBF-HW	NEPTUNE	FTF-5DB	A134 MECHANICAL ROOM		HOT WATER	5 MICRON BAG FILTER	5.0 gal	10"	32"

- GENERAL REQUIREMENTS**
- INCLUDE EXTRA MATERIALS AS STATED IN SPECIFICATIONS.
 - INCLUDE BOLT-ON LEG OPTION. MOUNT PER MANUFACTURER REQUIREMENTS.

IDENTITY DATA			LOCATION		SYSTEM SERVED	HEATING WATER FLOW				HEATING CAPACITY			ELECTRICAL DATA					
MARK	MFG	MODEL	WEIGHT (LBS)	TYPE		# NAME	DESIGN (GPM)	EWT (°F)	LWT (°F)	WPD (FH2O)	FUEL TYPE	INPUT	OUTPUT	EFF. η	VOLTS	PH	FREQ	FLA
BLR-1	LOCHINVAR	FCB2000	2,622	CREST W/HELLCAT COMBUSTION	A134 MECHANICAL ROOM	200	160	180	20	14.5	NG (4" W.C. MIN / 14" W.C. MAX)	1,999,000	1,923,000	96.2	120 V	1	60	13
BLR-2	LOCHINVAR	FCB2000	2,622	CREST W/HELLCAT COMBUSTION	A134 MECHANICAL ROOM	200	160	180	20	14.5	NG (4" W.C. MIN / 14" W.C. MAX)	1,999,000	1,923,000	96.2	120 V	1	60	13
BLR-3	LOCHINVAR	FCB2000	2,622	CREST W/HELLCAT COMBUSTION	A134 MECHANICAL ROOM	200	160	180	20	14.5	NG (4" W.C. MIN / 14" W.C. MAX)	1,999,000	1,923,000	96.2	120 V	1	60	13

- GENERAL REQUIREMENTS**
- REFER TO ALTERNATE FOR REDUCED SCOPE.
 - INCLUDE CONDENSATE PIPING, FACTORY-PROVIDED DRAIN TRAP, AND FACTORY-PROVIDED CONDENSATE NEUTRALIZER KIT FOR EACH BOILER ACCORDING TO MANUFACTURER REQUIREMENTS.
 - PROVIDE AND INSTALL SERVICE DISCONNECT SWITCH FOR EACH BOILER ACCORDING TO MANUFACTURER ELECTRICAL REQUIREMENTS.
 - FUE GAS EXHAUST DUCTWORK TO BE CONSTRUCTED OF DOUBLE WALL STAINLESS STEEL. SEE SPECIFICATIONS FOR MORE DETAILS.
 - COMBUSTION AIR DUCTWORK TO BE CONSTRUCTED OF GALVANIZED STEEL PIPE. SEAL ALL JOINTS AND SEAMS AS REQUIRED BY LOCAL CODES AND MANUFACTURER REQUIREMENTS.
 - ELECTRICAL REQUIREMENTS MAY VARY BASED ON MANUFACTURER.

IDENTITY DATA			LOCATION		PERFORMANCE DATA				CONDENSER		COMPRESSOR		DIMENSIONS			SINGLE POINT ELECTRICAL									
MARK	MFG	MODEL	TYPE	LOCATION	SYSTEM SERVED	AMBIENT DB AIR TEMP (F)	REFRIG. TYPE	LBS.	CAPACITY (TONS)	EER	IPLV	AMBIENT T TEMP. (°F)	FAN S QTY	TYPE	QTY	MIN OA DB TEMP (°F)	W	L	H	WEIGHT (LBS)	VOLTS	PH	FREQ	MOP	MCA
CHLR-1	TRANE	ASCEND (TM) MODEL ACS	AIR-COOLED SCROLL	MECHANICAL COURTYARD	CHILLED WATER PLANT	95 °F	R-454B	100	140	10.99	16.6	95 °F	8	DIRECT-DRIVE HERMETIC SCROLL	4	32 °F	88"	232"	98"	7,897	460 V	3	60	350 A	287 A
CHLR-2	TRANE	ASCEND (TM) MODEL ACS	AIR-COOLED SCROLL	MECHANICAL COURTYARD	CHILLED WATER PLANT	95 °F	R-454B	100	140	10.99	16.6	95 °F	8	DIRECT-DRIVE HERMETIC SCROLL	4	32 °F	88"	232"	98"	7,897	460 V	3	60	350 A	287 A

- GENERAL REQUIREMENTS**
- ROUTE REFRIGERANT PIPING ACCORDING TO MANUFACTURER REQUIREMENTS. SUPPORT PIPING ACCORDING TO SPECIFICATIONS.
 - PROVIDE SHORT CIRCUIT CURRENT RATING (SCCR) OF 65KA.
- GENERAL REQUIREMENTS**
- INCLUDE FACTORY ELASTOMERIC ISOLATORS.

IDENTITY DATA			LOCATION		EQUIP. SERVED	EVAPORATOR DATA			UNIT SIZE (IN)		
MARK	MFG	PRODUCT	# NAME			EQUIP. DESIGN FLOW (GPM)	EWT (°F)	LWT (°F)	WPD (FT-WG)	L	W
REV-1	TRANE	BRAZED PLATE HX REMOTE EVAPORATOR	A134 MECHANICAL ROOM	CHLR-1	230	59	45	7.00	72	36	48
REV-2	TRANE	BRAZED PLATE HX REMOTE EVAPORATOR	A134 MECHANICAL ROOM	CHLR-2	230	59	45	7.00	72	36	48

- GENERAL REQUIREMENTS**
- PROVIDE DIGITAL REFRIGERANT LEAK DETECTION SYSTEM EQUAL TO TRANE TruSense RMWH. SEE PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

IDENTITY DATA			LOCATION		SYSTEM SERVED	ACCEPTANCE VOLUME	MAX PRESSURE	TANK SIZE		FLOODED WEIGHT (LBS)
MARK	MANUFACTURER	MODEL	# NAME					DIA.	HEIGHT	
ET-CHW	BELL & GOSSETT	B130	A134 MECHANICAL ROOM		CHILLED WATER PLANT	34.0 gal	80 psig	20"	40"	410
ET-HW	BELL & GOSSETT	B1000	A134 MECHANICAL ROOM		HOT WATER PLANT	264.0 gal	125 psig	36"	76"	2,751

IDENTITY DATA		LOCATION	
MARK	MANUFACTURER	# NAME	
TCP-1	SIEMENS	A134 MECHANICAL ROOM	
TCP-2	SIEMENS	A134 MECHANICAL ROOM	
TCP-3	SIEMENS	A134 MECHANICAL ROOM	
TCP-4	SIEMENS	A200 MECHANICAL MEZZANINE	
TCP-5	SIEMENS	A201 MECHANICAL MEZZANINE	
TCP-6	SIEMENS	A201 MECHANICAL MEZZANINE	
TCP-7	SIEMENS	B200 MECHANICAL MEZZANINE	
TCP-8	SIEMENS	B200 MECHANICAL MEZZANINE	
TCP-9	SIEMENS	D200 MECHANICAL MEZZANINE	
TCP-10	SIEMENS	D200 MECHANICAL MEZZANINE	

- GENERAL REQUIREMENTS**
- TCC RESPONSIBLE FOR ADDITIONAL TCP AS NECESSARY FOR COMPLETE DDC CONTROL OF SYSTEMS.
 - TCC TO VERIFY LOCATION OF TCP WITH ALL TRADES PRIOR TO INSTALLATION.
 - REFER TO ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
 - COORDINATE DATANETWORK REQUIREMENTS REQUIREMENTS WITH OWNER AND ALL OTHER TRADES.

IDENTITY DATA				LOCATION		PERFORMANCE DATA				PERFORMANCE DATA				ELECTRICAL DATA			
MARK	MFG	MODEL	WEIGHT (LBS)	TYPE	# NAME	SYSTEM SERVED	FLOW RATE (GPM)		HEAD (RH2O)	IMPELLER DIA (IN.)	NPSH	BHP @ DUTY POINT	MOTOR HP	MOTOR SPEED (RPM)	DUTY POINT η (%)	ELECTRICAL	NOTES
							DESIGN	MIN.									
CHP-1	Bell & Gossett	3AD	160	e-1510 BASE MOUNTED END SUCTION	A134 MECHANICAL ROOM	CHILLED WATER PLANT - PRIMARY	230	30	6'11"	5.2	2.3	3	1800	79	460 V-3-60		
CHP-2	Bell & Gossett	3AD	160	e-1510 BASE MOUNTED END SUCTION	A134 MECHANICAL ROOM	CHILLED WATER PLANT - PRIMARY	230	30	6'11"	5.2	2.3	3	1800	79	460 V-3-60		
CHP-3	Bell & Gossett	3BD	310	e-1510 BASE MOUNTED END SUCTION	A134 MECHANICAL ROOM	CHILLED WATER PLANT - SECONDARY	440	103	80	9'12"	6.88	10.6	15	1800	83.7	460 V-3-60	1
CHP-4	Bell & Gossett	3BD	310	e-1510 BASE MOUNTED END SUCTION	A134 MECHANICAL ROOM	CHILLED WATER PLANT - SECONDARY	440	103	80	9'12"	6.88	10.6	15	1800	83.7	460 V-3-60	1
HWP-1	Bell & Gossett	3x3x7C	180	e-80 IN-LINE CENTRIFUGAL PUMP	A134 MECHANICAL ROOM	HOT WATER PLANT - PRIMARY	200	200	25	6"	6.85	1.7	2	1800	71.8	460 V-3-60	
HWP-2	Bell & Gossett	3x3x7C	180	e-80 IN-LINE CENTRIFUGAL PUMP	A134 MECHANICAL ROOM	HOT WATER PLANT - PRIMARY	200	200	25	6"	6.85	1.7	2	1800	71.8	460 V-3-60	
HWP-3	Bell & Gossett	3x3x7C	180	e-80 IN-LINE CENTRIFUGAL PUMP	A134 MECHANICAL ROOM	HOT WATER PLANT - PRIMARY	200	200	25	6"	6.85	1.7	2	1800	71.8	460 V-3-60	
HWP-4	Bell & Gossett	4EB	360	e-1510 BASE MOUNTED END SUCTION	A134 MECHANICAL ROOM	HOT WATER PLANT - SECONDARY	590	124	80	10'5/8"	6.69	14.3	20	1800	81.3	460 V-3-60	1
HWP-5	Bell & Gossett	4EB	360	e-1510 BASE MOUNTED END SUCTION	A134 MECHANICAL ROOM	HOT WATER PLANT - SECONDARY	590	124	80	10'5/8"	6.69	14.3	20	1800	81.3	460 V-3-60	1

- GENERAL REQUIREMENTS**
- REFER TO ALTERNATE FOR REDUCED SCOPE.
 - REFER TO MECHANICAL DETAILS, SPECIFICATIONS, AND MANUFACTURER REQUIREMENTS FOR PIPING ACCESSORIES AND ADDITIONAL INFORMATION.
 - MAINTAIN ALL CLEARANCE REQUIREMENTS PER MANUFACTURER.
 - INSTALL PUMPS PER MANUFACTURER REQUIREMENTS.

- SCHEDULE NOTES**
- PROVIDE AND INSTALL VARIABLE FREQUENCY DRIVE.

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CONSTRUCTION DOCUMENTS

NAPA NORTH HEAT PUMP REPLACEMENT PHASE 2

6450 RODEBAUGH ROAD
INDIANAPOLIS, INDIANA 46268

223039.01

12/19/2025

OWNER

**MSD OF PIKE
TOWNSHIP**



ARCHITECT

**FANNING HOWEY
ASSOCIATES INC.**
350 EAST NEW YORK ST, SUITE 300,
INDIANAPOLIS, IN 46204
317.848.0966



SHEET INDEX

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M-003	MECHANICAL LIFE SAFETY PLAN	MV11F	FIRST FLOOR VENTILATION PLAN - UNIT F	ED11B	FIRST FLOOR DEMOLITION PLAN - UNIT B
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CONSTRUCTION DOCUMENTS



PROJECT NUMBER: 223039.01
PROJECT ISSUE DATE: 12/19/2025

COVER

NAPA NORTH HEAT PUMP REPLACEMENT PHASE 2

6450 RODEBAUGH ROAD
INDIANAPOLIS, INDIANA 46268

MSD OF PIKE TOWNSHIP



ARCHITECT



317.848.0966 WWW.FHAI.COM
350 EAST NEW YORK ST, SUITE 300, INDIANAPOLIS, IN 46204

CONSTRUCTION DOCUMENTS



DRAWN BY: JDS
PROJECT NUMBER: 223039.01
PROJECT ISSUE DATE: 12/19/2025

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM #1	01/15/2026

MECHANICAL ENLARGED
DEMOLITION PLANS

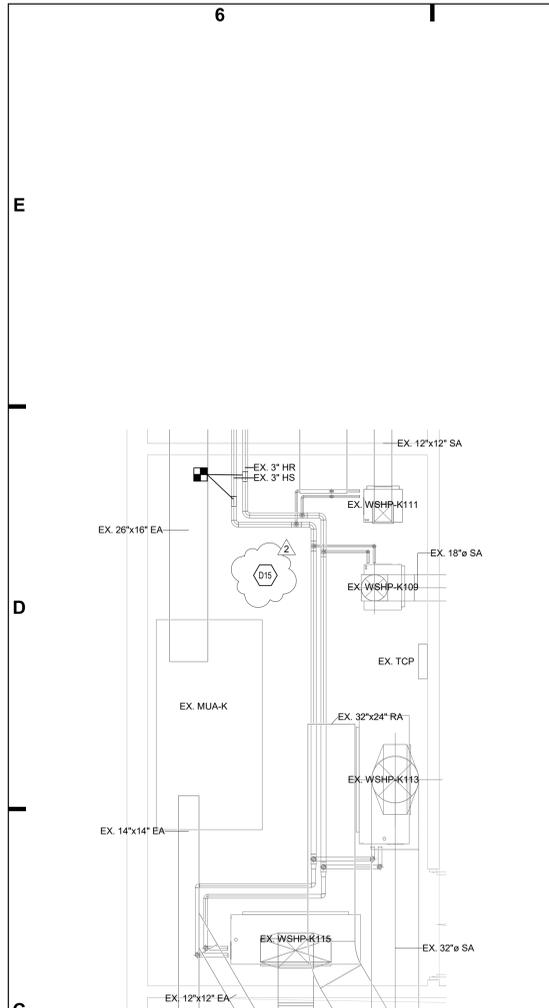
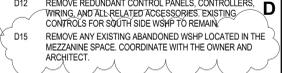
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MECHANICAL ROOM PLAN GENERAL NOTES

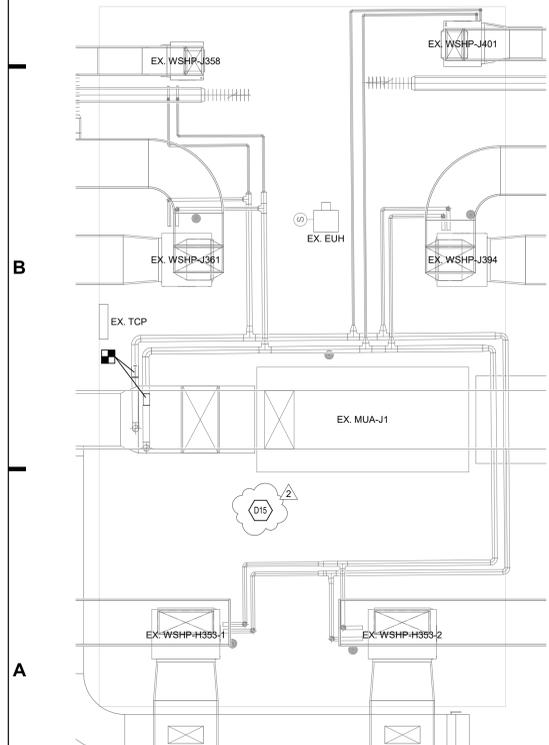
- A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
- B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
- C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COOLS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
- D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
- E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
- F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
- G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
- H. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 4" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
- I. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
- J. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
- K. HYDRONIC SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.

MECHANICAL ROOM PLAN NOTES

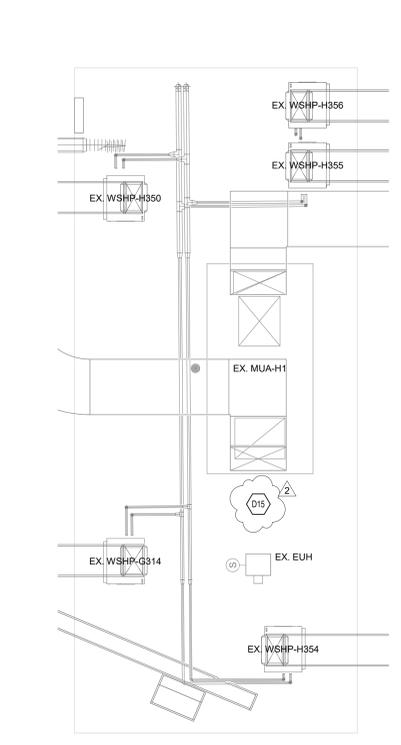
- (ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)
- | NO. | DESCRIPTION |
|-----|---|
| D2 | REMOVE EXISTING WSH, SUPPORT, CONTROLS, CONTROL WIRING, PIPING BRANCH, VALVES, RETURN DUCTWORK, AND SUPPLY INLET BRANCH. |
| D12 | REMOVE REDUNDANT CONTROL PANELS, CONTROLLERS, WIRING AND ALL RELATED ACCESSORIES. EXISTING CONTROLS FOR SOUTH SIDE WSH TO REMAIN. |
| D15 | REMOVE ANY EXISTING ABANDONED WSH LOCATED IN THE MEZZANINE SPACE. COORDINATE WITH THE OWNER AND ARCHITECT. |



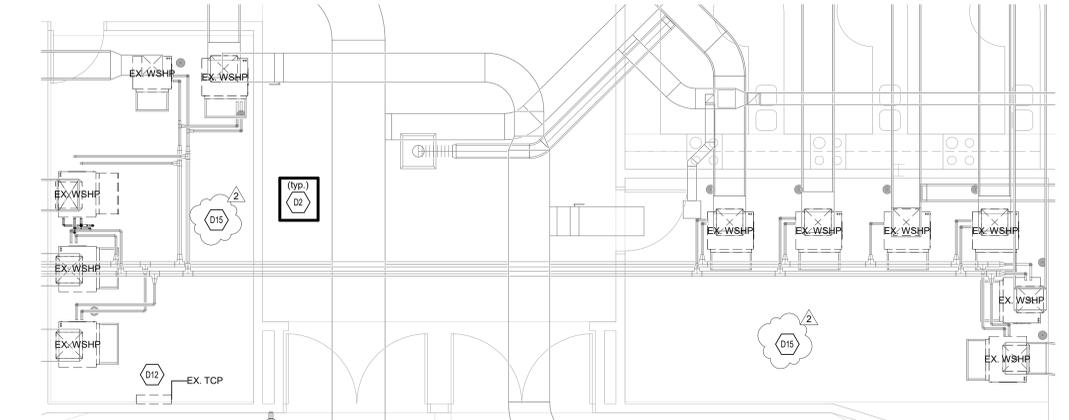
6C UNIT K MECHANICAL ROOM DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



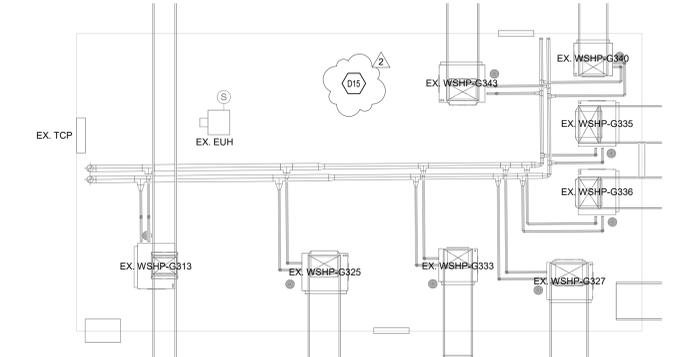
6A UNIT J MECHANICAL MEZZANINE DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



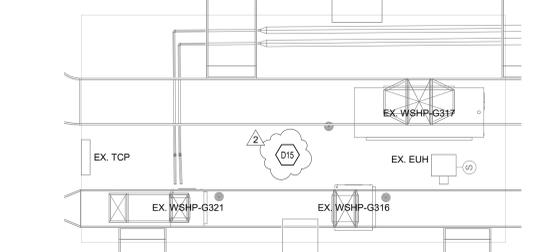
5A UNIT H MECHANICAL MEZZANINE DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



4B UNIT C MECHANICAL ROOM DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



4A UNIT G MUSIC MECHANICAL MEZZANINE DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



2A UNIT G EAST MECHANICAL MEZZANINE DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

VERIFICATION NOTE
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.
SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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23.81.46 - WATER-SOURCE HEAT PUMP SCHEDULE PHASE 2

IDENTITY DATA				TOTAL UNIT ELECTRICAL				SUPPLY FAN				AHR/ASHRAE/ISO 13256-1 PERFORMANCE DATA										COMPRESSOR				UNIT SIZE (IN)			SHIP WT. (LBS.)		FILTER TYPE										
TYPE MARK	MARK	MFG	MODEL	V	PH	HZ	FLA (A)	MCA (A)	MAX FUSE SIZE (A)	NOTES	FACTORY DISCONNECT	TYPE	NOMINAL MAX (CFM)	DEMAND (CFM)	MIN FLOW (CFM)	ESP (IN-WG)	MOTOR QUANTITY	HP (EA.)	TOT. CAP. (BTU/H)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	EWT (°F)	EER	CAP. (BTU/H)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	EWT (°F)	COP	LOP	FLOW (GPM)	WPD @ 90F (FT)	REFRIGERANT	TYPE	QUANTITY	W	D	H	SHIP WT. (LBS.)	FILTER TYPE
WSPH-3	WSPH-304	WaterFurnace	NEV042	460	3	60	9.9	11.4	15	4 WIRE WITH NEUTRAL	Yes	VARIABLE SPEED ECM	1450	1400	420	0.20	1	0.5	40710	80.0	67.0	57	86.0	16.9	47780	68.0	101	68.0	6.3	3/4	8	4.50	R-454B	SINGLE SPEED	1	25.5	31.2	48.2	378	1" MERV 4	

- GENERAL REQUIREMENTS:**
- WSPH 4-8 SHALL INCLUDE SPECIAL REFRIGERANT LEAK DETECTION EQUIPMENT AS PROVIDED BY THE UNIT MANUFACTURER. INSTALL PER IOM.
 - ALL VERTICAL UPFLOW WSPH SHALL BE INSTALLED ON A FACTORY 2" PEX FOAM VIBRATION ABSORBING PAD SLIGHTLY LARGER THAN THE BASE TO PROVIDE ISOLATION BETWEEN THE UNIT AND THE FLOOR.
 - MODEL 030-060.
 - WSPH UNITS SHALL INCLUDE FACTORY PHASE GUARD DISCONNECT SWITCH.
 - VARIABLE ECM MOTOR SHALL BE SOFT STARTING WHILE MAINTAINING CONSTANT CFM OVER ITS OPERATING STATIC RANGE.
 - INCLUDE HOT GAS REHEAT OPTION. ASSOCIATED ROOM SENSORS SHALL BE COMBINED TEMPERATURE/HUMIDITY, FURNISHED FROM WSPH FACTORY AND INSTALLED BY TC.
 - MODEL 120-300.
 - WSPH UNITS SHALL INCLUDE STANDARD DISCONNECT SWITCH.
 - VARIABLE ECM MOTOR SHALL BE SOFT STARTING WHILE MAINTAINING CONSTANT CFM OVER ITS OPERATING STATIC RANGE.
 - TC TO PROVIDE CONTROL WIRING, RELAYS, AND RELATED ACCESSORIES AS NECESSARY FOR FULL BMS INTEGRATION OF NEW WSPH. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. ROOM SENSORS SHALL BE FURNISHED FROM WSPH FACTORY, AND INSTALLED BY TC.
 - THE CONDENSATE CONNECTION SHALL BE 3/4 INCH PVC SOCKET WITH INTERNALLY-TRAPPED HOSE.
 - INSTALL EQUIPMENT LABEL WITH UNIQUE "MARK" REFERRING TO TEMPERATURE SENSOR LOCATION. FORMAT SHALL BE WSPH-X000, CORRESPONDING TO UNIT/ROOM NUMBER. CONTRACTOR TO FIELD VERIFY EXACT ROOM NUMBER PRIOR TO ORDERING EQUIPMENT LABELS.
 - INSTALL LABEL ON LABEL ON NEW SUPPLY DUCTWORK DIRECTLY ABOVE WATER SOURCE HEAT PUMP. INSTALL IN ACCESSIBLE AND VISIBLE LOCATION FOR EASE OF MAINTENANCE. LABEL SHALL NOT VOID ANY WARRANTY ON HEAT PUMP.
 - PROVIDE INTERNAL MODULATING CONTROL VALVE BY WSPH MANUFACTURER.
 - CONTRACTOR TO FIELD VERIFY LEFT HAND/RIGHT HAND ACCESS PRIOR TO ORDER.
 - HEAT PUMP MANUFACTURER SHALL PROVIDE HEAT PUMP THERMOSTAT SIMILAR TO WATER FURNACE ZS PLUS WITH ABILITY TO MAKE HEATING/COOLING ADJUSTMENTS, OVERRIDE THE SCHEDULE, INDICATE THAT THE ZONE IS IN AN OCCUPIED STATE. COORDINATE WITH TEMPERATURE CONTROL CONTRACTOR ON INTEGRATION INTO THE BAS.

23.21.23 - HYDRONIC PUMP SCHEDULE - ALTERNATE

MARK	MANUFACTURER	MODEL	IMPELLER R DIA. (IN.)	INLET / OUTLET DIA. (IN.)	H (IN.)	L (IN.)	PUMP DIA/W (IN.)	WEIGHT (LBS)	TYPE	SYSTEM SERVED	FLOW RATE (GPM)	MIN. FLOW (GPM)	RPM @ DUTY POINT	HEAD (FT)	NPSH	BHP	HP	ELECTRICAL	NOTES
P-1	BELL & GOSSETT	e80 5x5x13.5	13.125	5	42	33	18.75	820	CLOSE COUPLED IN LINE-FLANGE SUPPORT	LOOP 1/2	550	177	1639	150	8.1	28.1	50	460 V-3-60	ALTERNATE

23.21.23 - HYDRONIC PUMP SCHEDULE - BASE BID

MARK	SYSTEM SERVED	HP	ELECTRICAL
P-1	LOOP 1/2	30	460 V-3-60
P-2	LOOP 1/2	30	460 V-3-60
P-3	LOOP 3/4	30	460 V-3-60
P-4	LOOP 3/4	30	460 V-3-60
P-5	LOOP 5/6	30	460 V-3-60
P-6	LOOP 5/6	30	460 V-3-60
P-7	UNIT K	5	460 V-3-60
P-8	UNIT K	5	460 V-3-60

NOTES:
1 PROVIDE INVERTER DUTY TYPE MOTOR COMPATIBLE WITH EXISTING PUMP.

23.29.23 - VARIABLE-FREQUENCY MOTOR CONTROLLER SCHEDULE

IDENTITY DATA	LOCATION	BASE BID MOTOR HP	ALTERNATE MOTOR HP	INTEGRAL BYPASS	ELECTRICAL DATA
VFC-1	ABB F304 Space	30	50	Yes	480 V-3-HZ
VFC-2	ABB F304 Space	30	50	Yes	480 V-3-HZ
VFC-3	ABB F304 Space	30	50	Yes	480 V-3-HZ
VFC-4	ABB F304 Space	30	50	Yes	480 V-3-HZ
VFC-5	ABB F304 Space	30	50	Yes	480 V-3-HZ
VFC-6	ABB F304 Space	30	50	Yes	480 V-3-HZ
VFC-7	ABB F304 Space	5	5	Yes	480 V-3-HZ
VFC-8	ABB F304 Space	5	5	Yes	480 V-3-HZ

NOTES:
1 DRIVE PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY THE DIVISION 23 - HVAC CONTRACTOR.
2 DIVISION 25 - ELECTRICAL CONTRACTOR TO PROVIDE POWER WIRING TO VFC AND FROM VFC TO MOTOR(S).
3 TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE ALL TEMPERATURE CONTROL WIRING.
4 REFER TO SPECIFICATION SECTION 23.29.23.
5 BASE BID SHALL PROVIDE NEW VFC AND NEW PUMP MOTOR. ALTERNATE BID SHALL PROVIDE NEW VFC AND NEW PUMP ASSEMBLY.

NAPA NORTH HEAT PUMP REPLACEMENT PHASE 2

6450 RODEBAUGH ROAD
INDIANAPOLIS, INDIANA 46268

MSD OF PIKE TOWNSHIP



ARCHITECT

FANNING HOWEY

317.848.0966 WWW.FHAI.COM
350 EAST NEW YORK ST, SUITE 300, INDIANAPOLIS, IN 46204

CONSTRUCTION DOCUMENTS

DRAWN BY: JDS
PROJECT NUMBER: 223039.01
PROJECT ISSUE DATE: 12/19/2025

REV. NO.	DESCRIPTION	DATE
2	ADDENDUM #1	01/15/2026

MECHANICAL SCHEDULES

M-601

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DEMOLITION PLAN GENERAL NOTES

- REFER TO ELECTRICAL SPECIFICATION SECTION 260005 "ELECTRICAL DEMOLITION" FOR ADDITIONAL REQUIREMENTS THAT APPLY TO THIS DRAWING SHEET.

**NAPA NORTH
HEAT PUMP
REPLACEMENT
PHASE 2**

6450 RODEBAUGH ROAD
INDIANAPOLIS, IN 46268

MSD OF PIKE TOWNSHIP



ARCHITECT



317.848.0966

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Construction Documents



DRAWN BY: ISD
PROJECT NUMBER: 223039.00
PROJECT ISSUE DATE: 12.19.2025

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	01/15/2026

ENLARGED ELECTRICAL
DEMOLITION PLANS

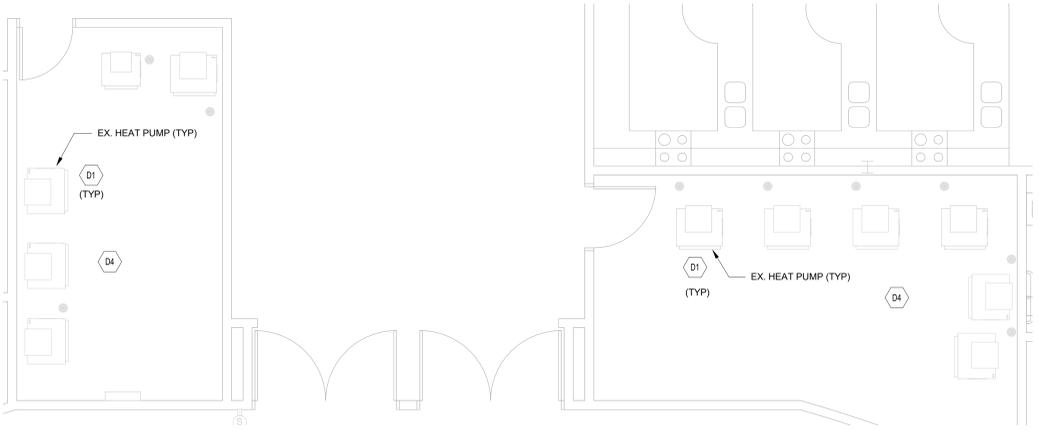
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DEMOLITION PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

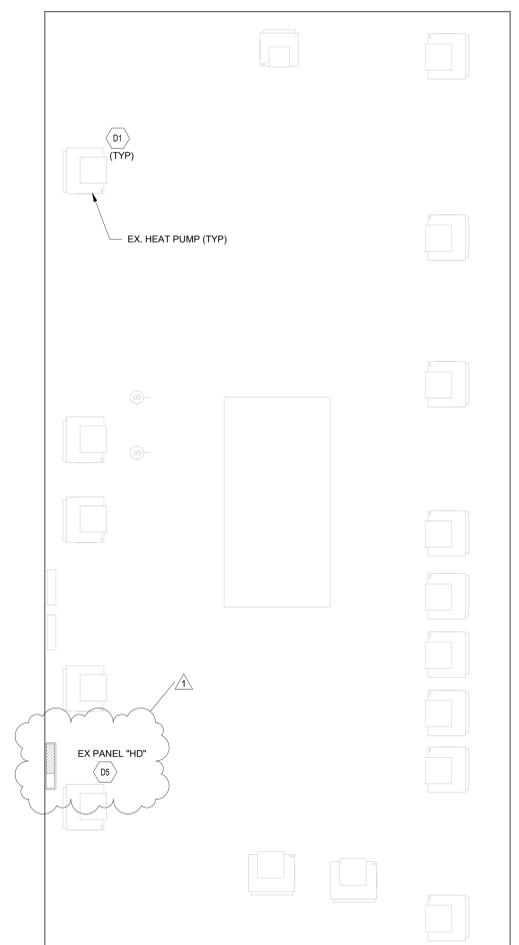
SHEET KEYNOTES

- D1 DISCONNECT EXISTING HEAT PUMP AT THIS LOCATION. REMOVE EXISTING DISCONNECT SERVING HEAT PUMP. REMOVE ALL CONDUIT AND WIRING BACK TO PANELBOARD COMPLETE.
- D4 HEAT PUMPS IN THIS AREA ARE FED FROM PANEL 'HC'.
- D5 DISCONNECT EXISTING PANELBOARD FROM EXISTING FEEDER AND REMOVE PANELBOARD. TIE BACK EXISTING FEEDER FOR NEW TRANSFORMER.



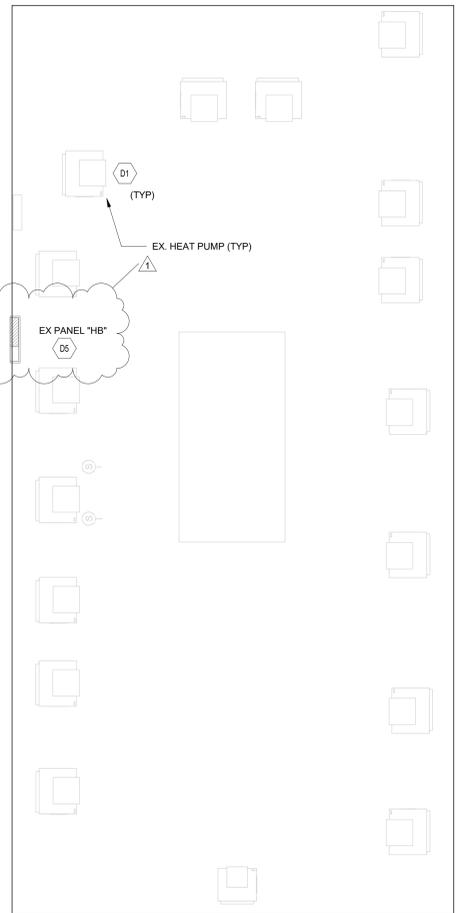
UNIT C MECHANICAL ROOM DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



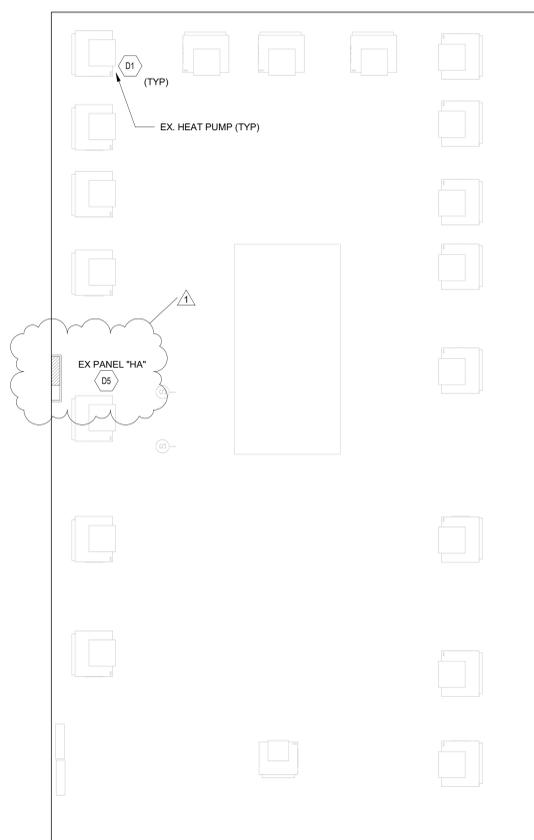
UNIT D MECHANICAL MEZZANINE DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



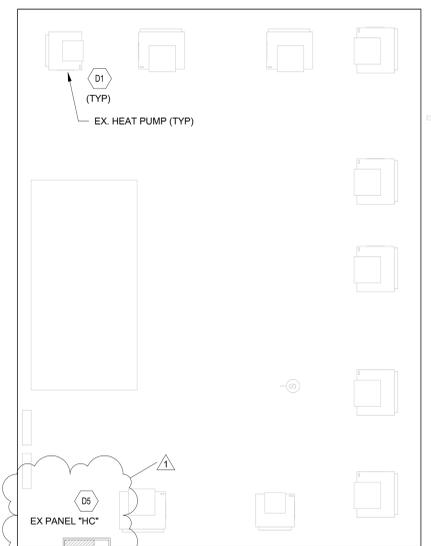
UNIT B MECHANICAL MEZZANINE DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



UNIT A MECHANICAL MEZZANINE DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



UNIT C MECHANICAL MEZZANINE DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

VERIFICATION NOTE
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

