A D D E N D U M N O. 1

Fishback Creek Mechanical Renovation

Project No. 223046.00

MSD of Pike Township
Indianapolis, Indiana

Index of Contents

Date: April 25, 2024

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

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 1 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, SECTION 01 10 00 - SUMMARY

A. Add 2.8, B., 5., as follows:

"5. 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."

ITEM NO. 2. PROJECT MANUAL, SECTION 23 05 00 – COMMON WORK RESULTS FOR HVAC

A. Add 3.1. D., as follows:

"D. During selective demolition of pneumatic control tubing and equipment, the control tubing shall be permanently capped at source to preserve existing pneumatic controls to other mechanical equipment. Once new DDC BMS system is fully operational, all pneumatic equipment can be removed."

B. Add 3.1. E., as follows:

"E. Pneumatic control tubing must be completely removed from mechanical equipment to source. Removal of pneumatic conduit and supports are included in scope."

ITEM NO. 3. PROJECT MANUAL, 23 09 93 HVAC SEQUENCE OF OPERATION

A. Update specification section 1.5, D., 3d., to the following:

"Specification section 23 29 23 variable frequency motor controllers shall provide VFC for each secondary pump; verify power requirements with Mechanical Contractor. TC shall provide VFC. TC responsible for control wiring from mechanical equipment to VFC. Division 26 shall provide power wiring and installation of VFC."

B. Update specification 1.5, E., 1f., to the following:

"Specification section 23 29 23 variable frequency motor controllers shall provide VFC for each secondary pump; verify power requirements with Mechanical Contractor. TC shall provide VFC. TC responsible for control wiring from mechanical equipment to VFC. Division 26 shall provide power wiring and installation of VFC."

C. Revise 1.5, G., 1., to the following:

"Provide room temperature sensor mounted on the wall. Sensor shall cycle the unit fan and modulate the 2-way hot water control valve to maintain space temperature setpoint. Sensor shall be furnished and installed by TCC. Coordinate wiring with EC. Refer to control drawings. Integrate equipment into BMS."

D. Revise 1.5, G., 1., to the following:

"Provide room temperature sensor mounted on the wall. Sensor shall open 2-position 2-way valve and cycle the unit fan to maintain space setpoint. Sensor shall be furnished and installed by TCC. Coordinate wiring with EC. Space sensor and PUH shall be integrated into BMS. Refer to control drawings."

E. Revise 1.5, D., 2., c., to the following:

"After flow has been proven through the chiller flow switch wired to the chiller control panel, the chiller shall be enabled to operate under its own operating and safety controls to maintain 44F (adj.) leaving water temperature. Air-cooled condenser shall be cycled from the chiller control panel. Chiller evaporator capacity controls, flow switch shall be furnished by chiller manufacturer and installed by Temperature Control Contractor. Chilled water temperature sensors shall be furnished and installed by the Temperature Control Contractor as shown on control drawings."

ITEM NO. 4. PROJECT MANUAL, SECTION 23 21 13 – HYDRONIC PIPING

A. Remove the following section (and associated subsections) of the specification.

"2.5 POLYPROPYLENE RESIN (PP-R) PIPE AND FITTINGS" and associated subsections.

"1.1, B., 2. Division 23 Section "Polypropylene Hydronic Piping Option"

B. Revise the wording to specification section 3.1K to the following:

"Safety-Valve-Inlet and -Outlet Piping for Hot-Water Heating Piping: Same materials and joining methods as for piping specified for the service in which safety valve is installed."

ITEM NO. 5. REVISED DRAWING SHEETS

A. Drawing Sheets: M-602 and M-702 have been revised, dated 4/25/24, and are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

END OF ADDENDUM

FANNING HOWEY

350 East New York St
Suite 300
Indianapolis, IN 46204
317.848.0966
fhai.com

PREBID CONFERENCE AGENDA

MSD of Pike Township
Indianapolis, Indiana

Date: April 11, 2024

Re: NAPA North Heat Pump Replacement
Fishback Creek Mechanical Renovation
MSD of Pike Township
Indianapolis, Indiana
Project Nos. 223039.00 and 223046.00

Present: See prebid conference sign-in sheet.

Purpose: Look at project site, conditions, and to answer questions concerning the Drawings and Project Manual for the projects. Fanning Howey to document and answer questions.

1. General Information

a. Advertisement to Bidders: Per the information contained in the Advertisement to Bidders in the Project Manual, bids will be received until **10:00 a.m. on May 9, 2024** at the MSD of Pike Township – Administration Services Center, Attn: Director of Facilities & Security, 6901 Zionsville Rd, Indianapolis, IN 46268 in Board Room. Bids will be opened publicly and read aloud immediately after specified closing time. Bids may be held for 60 days.

b. 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.

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

d. 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.

e. 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.

f. Award of Contract: The Board will be asked to award a Contract at the Board Meeting on May 14, 2024 after which a Notice to Proceed will be issued, Contract will be executed and Preconstruction Conference will be scheduled.

g. Project Schedule: Construction schedule and phasing can be seen in "01 10 00 – SUMMARY" of each project, and on sheet M-002. A condensed schedule is shown below. Contractors shall review the specifications and documents for exact requirements:

.1 223039.00 NAPAN Heat Pump Replacement
- .a Start: March 31, 2025
- .b Summer Break: May 23, 2025 to July 22, 2025
- .c Substantial Completion: October 10, 2025

.2 223046.00 Fishback Creek Mechanical Renovation
- .a Start: March 31, 2025
- .b Summer: May 23, 2025 to July 22, 2025
- .c Chilled Water: November 1, 2025 to March 1, 2026

h. Walkthrough of NAPAN Heat Pump Replacement project (Approximately 10am)

i. Walkthrough of Fishback Creek Mechanical Renovation Project (Approximately 11am, after NAPAN walkthrough)

j. Temporary Facilities and Controls: Information on temporary facilities and controls are listed in Section 015000 of the Project Manual.

k. Addenda: – If required, any addenda will be issued by May 2, 2024.

l. 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 Gregg Dixon at gdixon@fhai.com and Peter Winters at pwinters@fhai.com

m. 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.

2. 223039.00 NAPAN Heat Pump Replacement Walkthrough

    a. Look at project site, conditions, and to answer questions concerning the Drawings and Project Manual for 223039.00 project. Fanning Howey to document and answer questions.

3. 223046.00 Fishback Creek Mechanical Renovation Walkthrough

    a. Look at project site, conditions, and to answer questions concerning the Drawings and Project Manual for 223046.00 project. Fanning Howey to document and answer questions.

Jake Sorenson, EIT
Mechanical Designer

jds

FANNING HOWEY

Project Name MSD OF PIKE TOWNSHIP
NEW AUGUSTA PUBLIC ACADEMY NORTH – HEAT PUMP REPLACEMENT
Project No. 223039.00
Meeting Date APRIL 11, 2024

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 and Security	MSD of Pike Township	317.280.2425	cgruber@pike.k12.in.us
Peter Winters	Project Manager	Fanning Howey	317.410.1289	pwinters@fhai.com
Jake Sorenson	Mechanical Designer	Fanning Howey	763.567.0559	jsorenson@fhai.com
John Gutzwiller	Estimator	Sexson Mech	317-910-0780	johng@sexsonmechanical.com
Rob Jordan		Pike	317.714-1321	RLJordan@PIKE.K12.IN.US
Billy Mattingly	EVP	Holladay Const.	317 821 8155	BMattingly@hcgllc.net
tamara Dixon.				

23.21.13 - AIR AND DIRT SEPERATOR SCHEDULE

IDENTITY DATA			LOCATION				TANK SIZE				
MARK	MANUFACTURER	MODEL	# NAME	SYSTEM SERVED	TYPE	MAX WORKING PRESSURE	DIA.	HEIGHT	FLOODED WEIGHT (LBS)	CONNECTION DIAMETER (IN.)	MAX FLOW RATE
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

23.29.23 - VARIABLE-FREQUENCY MOTOR CONTROLLER SCHEDULE

IDENTITY DATA		LOCATION		MOTOR	INTEGRAL BYPASS	ELECTRICAL DATA
MARK	MANUFACTURER	# NAME	SERVICE	HP		
VFC-1	ABB Power Distribution	A134 MECHANICAL ROOM	HWP-4	10	Yes	480 V-3-vHZ
VFC-2	ABB Power Distribution	A134 MECHANICAL ROOM	HWP-5	10	Yes	480 V-3-vHZ
VFC-3	ABB Power Distribution	A134 MECHANICAL ROOM	CHP-3	10	Yes	480 V-3-vHZ
VFC-4	ABB Power Distribution	A134 MECHANICAL ROOM	CHP-4	10	Yes	480 V-3-vHZ

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.
- PROVIDED BY TCC AND INSTALLED BY EC. TCC RESPONSIBLE FOR CONTROL WIRING FROM VFC TO MECHANICAL EQUIPMENT. EC RESPONSIBLE FOR POWER WIRING.

23.25.00 - CHEMICAL BYPASS/FILTER FEEDER SCHEDULE

IDENTITY DATA			LOCATION				TANK SIZE	
MARK	MANUFACTURER	MODEL	# NAME	SYSTEM SERVED	TYPE	VOLUME	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.

23.52.00 - HEATING BOILER SCHEDULE

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)	ΔT (°F)	WPD (ftH2O)	FUEL TYPE	INPUT	OUTPUT	EFF. η	VOLTS	PH	FREQ	FLA
BLR-1	LOCHINVAR	FCB2000	2,622	CREST W/HELLCAT COMBUSTION	A134 MECHANICAL ROOM	HEATING HOT WATER	200	140	160	20	14.5	NG (4" W.C. MIN / 14" W.C. MAX)	1,999,000	1,923,000	96.2	120 V	1	60	13.5
BLR-2	LOCHINVAR	FCB2000	2,622	CREST W/HELLCAT COMBUSTION	A134 MECHANICAL ROOM	HEATING HOT WATER	200	140	160	20	14.5	NG (4" W.C. MIN / 14" W.C. MAX)	1,999,000	1,923,000	96.2	120 V	1	60	13.5
BLR-3	LOCHINVAR	FCB2000	2,622	CREST W/HELLCAT COMBUSTION	A134 MECHANICAL ROOM	HEATING HOT WATER	200	140	160	20	14.5	NG (4" W.C. MIN / 14" W.C. MAX)	1,999,000	1,923,000	96.2	120 V	1	60	13.5

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 MANUFACTURERS ELECTRICAL REQUIREMENTS.
- FLUE GAS EXHAUST DUCTWORK TO BE CONSTRUCTED OF DOUBLE WALL STAINLESS STEEL SPECIAL GAS VENT. 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.

23.64.26 - AIR-COOLED CHILLER SCHEDULE

IDENTITY DATA				LOCATION		AMBIENT DB AIR TEMP (F)	PERFORMANCE DATA				EVAPORATOR			CONDENSER			COMPRESSOR				DIMENSIONS				ELECTRICAL				
							REFRIG.							OPER. TEMP. (°F)	FANS														
MARK	MFG	MODEL	TYPE	LOCATION	SYSTEM SERVED		TYPE	LBS.	CAPACITY (TONS)	EER	IPLV	EWT (°F)	LWT (°F)	FLOW (GPM)	WPD (FT)		QTY	HP	TYPE	QTY	MIN OA DB TEMP (°F)	kW (Total)	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	10.948	17.05	45	55	317.6	8.4	-20 °F	8	2.4	DIRECT-DRIVE HERMETIC SCROLL	4	-20 °F	136.1	88"	229"	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	10.948	17.05	45	55	317.6	8.4	-20 °F	8	2.4	DIRECT-DRIVE HERMETIC SCROLL	4	-20 °F	136.1	88"	229"	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.

23.64.27 - REMOTE EVAPORATOR SCHEDULE

IDENTITY DATA					EVAPORATOR DATA				UNIT SIZE (IN)		
MARK	MFG	PRODUCT	LOCATION	EQUIP. SERVED	SYSTEM DEMAND FLOW (GPM)	EQUIPMENT DESIGN FLOW (GPM)	EWT (°F)	LWT (°F)	L	W	H
REV-1	TRANE	BRAZED PLATE HX REMOTE EVAPORATOR	A134 MECHANICAL ROOM	CHLR-1	260	317	45	55	72	36	48
REV-2	TRANE	BRAZED PLATE HX REMOTE EVAPORATOR	A134 MECHANICAL ROOM	CHLR-2	260	317	45	55	72	36	48

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

23.05.16 - HYDRONIC EXPANSION TANK SCHEDULE

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

23.09.00 - TEMPERATURE CONTROL PANEL SCHEDULE

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 DATA/NETWORK REQUIREMENTS REQUIREMENTS WITH OWNER AND ALL OTHER TRADES.

23.21.23 - HYDRONIC PUMP SCHEDULE

IDENTITY DATA					LOCATION		PERFORMANCE DATA								ELECTRICAL DATA	
MARK	MFG	MODEL	WEIGHT (LBS)	TYPE	# NAME	SYSTEM SERVED	FLOW RATE (GPM) DESIGN	HEAD (ftH20)	IMPELLER DIA (IN.)	NPSH	BHP @ DUTY POINT	MOTOR HP	MOTOR SPEED (RPM)	DUTY POINT η (%)	ELECTRICAL	NOTES
CHP-1	Bell & Gossett	3 AD	228	BASE MOUNTED END SUCTION	A134 MECHANICAL ROOM	CHILLED WATER PLANT - PRIMARY	320	30	6 3/8"	6	2.9	3	1800	84.2	460 V-3-60	
CHP-2	Bell & Gossett	3 AD	228	BASE MOUNTED END SUCTION	A134 MECHANICAL ROOM	CHILLED WATER PLANT - PRIMARY	320	30	6 3/8"	6	2.9	3	1800	84.2	460 V-3-60	
CHP-3	Bell & Gossett	2.5 BB	388	BASE MOUNTED END SUCTION	A134 MECHANICAL ROOM	CHILLED WATER PLANT - SECONDARY	260	80	9 1/2"	7	6.8	10	1800	77.2	460 V-3-60	1
CHP-4	Bell & Gossett	2.5 BB	388	BASE MOUNTED END SUCTION	A134 MECHANICAL ROOM	CHILLED WATER PLANT - SECONDARY	260	80	9 1/2"	7	6.8	10	1800	77.2	460 V-3-60	1
HWP-1	Bell & Gossett	3x3x7C	180	IN-LINE CENTRIFUGAL PUMP	A134 MECHANICAL ROOM	HOT WATER PLANT - PRIMARY	200	25	6"	7	1.7	2	1800	71.8	460 V-3-60	
HWP-2	Bell & Gossett	3x3x7C	180	IN-LINE CENTRIFUGAL PUMP	A134 MECHANICAL ROOM	HOT WATER PLANT - PRIMARY	200	25	6"	7	1.7	2	1800	71.8	460 V-3-60	
HWP-3	Bell & Gossett	3x3x7C	180	IN-LINE CENTRIFUGAL PUMP	A134 MECHANICAL ROOM	HOT WATER PLANT - PRIMARY	200	25	6"	7	1.7	2	1800	71.8	460 V-3-60	
HWP-4	Bell & Gossett	2.5 BB	388	BASE MOUNTED END SUCTION	A134 MECHANICAL ROOM	HOT WATER PLANT - SECONDARY	260	80	9 1/2"	7	6.6	10	1800	77.2	460 V-3-60	1
HWP-5	Bell & Gossett	2.5 BB	388	BASE MOUNTED END SUCTION	A134 MECHANICAL ROOM	HOT WATER PLANT - SECONDARY	260	80	9 1/2"	7	6.6	10	1800	77.2	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
1. PROVIDE AND INSTALL VARIABLE FREQUENCY DRIVE.

FISHBACK CREEK MECHANICAL RENOVATION

8301 W 86TH STREET
INDIANAPOLIS, IN 46278

MSD OF PIKE TOWNSHIP

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

KEY PLAN

CONSTRUCTION DOCUMENTS

MARK Z. HOOF REGISTERED No. PE 12000001 STATE OF INDIANA PROFESSIONAL ENGINEER

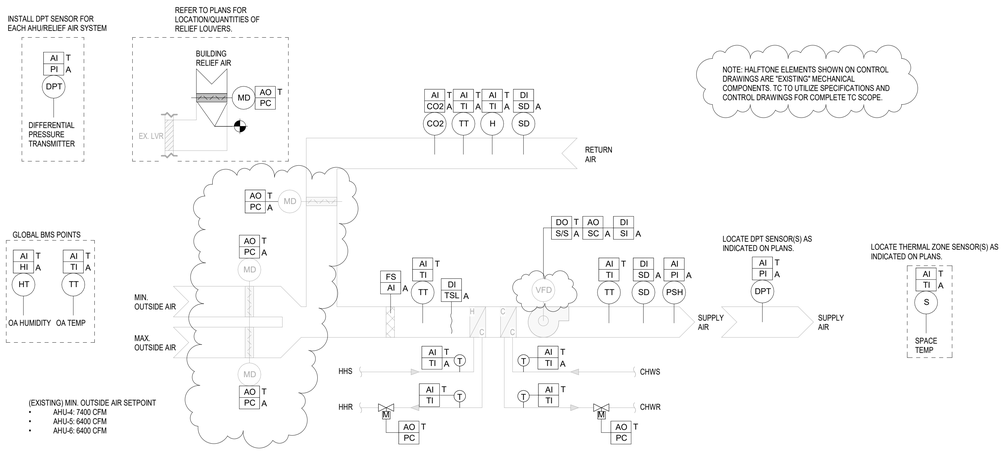
DRAWN BY: JDS
PROJECT NUMBER: 223046.00
PROJECT ISSUE DATE: 04.05.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 001	04.25.2024

MECHANICAL SCHEDULES

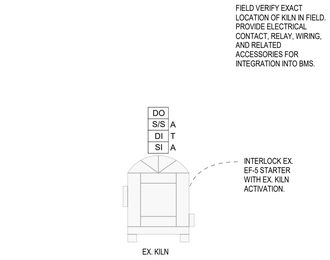
M-602

C:\Users\jlorenson\Documents\2023_MECH_223046.00_jlorenson#PPTG.rvt
4/22/2024 1:23:49 PM



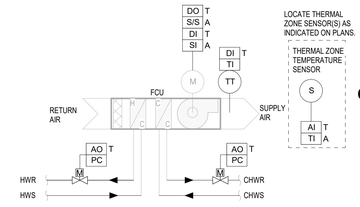
5C AHU MZ VAV - HW/CHW - RV - CONTROL SCHEMATIC (AHU-4,5,6)

NOT TO SCALE



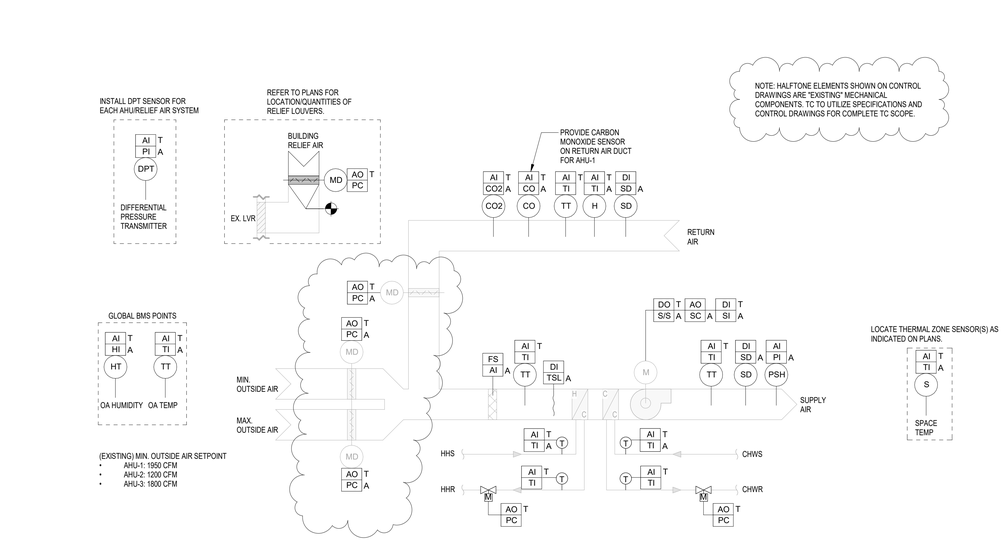
2C KILN CONTROL SCHEMATIC

NOT TO SCALE



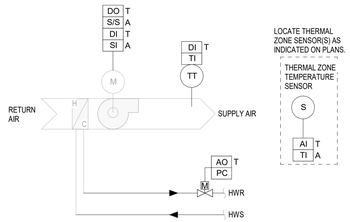
1C FAN COIL UNIT - HW/CHW CONTROL SCHEMATIC

NOT TO SCALE



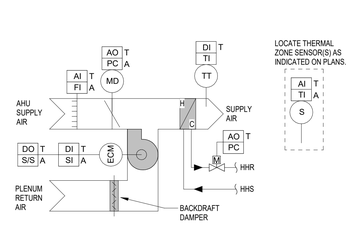
5A AHU SZ VAV - HW/CHW - RV - CONTROL SCHEMATIC (AHU-1,2,3)

NOT TO SCALE



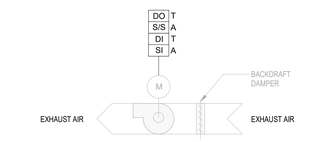
2B UNIT HEATER - HW CONTROL SCHEMATIC

NOT TO SCALE



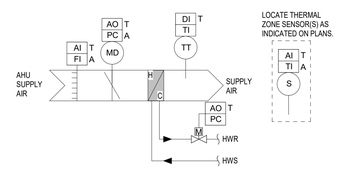
1B PARALLEL VVF - HOT WATER 2 WAY VALVE CONTROL SCHEMATIC

NOT TO SCALE



2A EXHAUST FAN - CONTROL SCHEMATIC

NOT TO SCALE



1A VVR - HOT WATER 2 WAY VALVE CONTROL SCHEMATIC

NOT TO SCALE

FISHBACK CREEK MECHANICAL RENOVATION

8301 W 86TH STREET
INDIANAPOLIS, IN 46278

MSD OF PIKE TOWNSHIP

ARCHITECT

FANNING HOWEY

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

A B C D

KEY PLAN

N

CONSTRUCTION DOCUMENTS

MARK Z. HOSE REGISTERED No. PE 12005001 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: JDS
PROJECT NUMBER: 223046.00
PROJECT ISSUE DATE: 04.05.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 001	04.25.2024

MECHANICAL SCHEMATICS

M-702

C:\Users\jsorenson\Documents\2023_MECH_223046.00_JsorensonPYPTO.rvt
4/22/2024 1:23:49 PM