

## ADDENDUM NO. 02

### TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

Update HVAC & Chiller, Troop D Crime Lab  
Troop D Crime Lab  
Springfield, Missouri  
PROJECT NO.: R2517-01

Bid Opening Date: 1:30 PM, Thursday, February 5, 2026 (Unchanged)

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**Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:**

#### **SPECIFICATION CHANGES:**

1. Section 099123 – Interior Painting
  - a. ADD Section 099123 – Interior Painting
2. Section 230719 – HVAC Piping Insulation
  - a. Add 3.02E as follows:
    - E. Refrigerant Piping.
      - a. Provide aluminum jacketing on all exterior refrigerant piping.
      - b. Provide 1" EPDM insulation for all refrigerant piping.
  - b. Add 3.02F as follows:
    - F. Hydronic Specialties.
      - a. Provide 1" EPDM insulation for all hydronic specialties. Provide opening around equipment label.
3. Section 233616– Variable Air Volume Units
  - a. Add 2.01B.1.d as follows:
    - d. MetalAire
4. Section 233700 – Air Outlets and Inlets
  - a. Add 2.01E as follows:
    - E. MetalAire
5. Section 236423 – Air Cooled Scroll Chiller
  - a. Add 2.01G as follows:
    - G. Daikin

6. Section 237313 – Custom Air Handlers

a. Add 2.01B.1.g as follows:

g. Daikin

b. REMOVE and REPLACE 2.01B.9 as follows:

9. Entire Unit to be insulated with a full 3" (R24) thick closed cell foam insulation. Foam shall be ecomate 0-, 0-, (Non VOC) UL 94HF1 rated. All insulation edges shall be encapsulated within the panel. All field penetrations must be completely sealed by installing contractor.

**DRAWINGS CHANGES:**

1. Sheet M-002

a. Remove pressure monitoring system and associated differential pressure sensors.

2. Sheet M-102

a. Provide new pressure monitoring system and associated differential pressure sensors.

3. Sheet M-401

- a. Revised Fan Powered VAV Terminal Units Schedule.
- b. Revised VAV Terminal Unit Schedule.
- c. Revised Air Handling Unit Schedule.

4. Sheet E-201

a. Added detail 2/E201 – Elevation Detail per attached sheet E-201.

**GENERAL COMMENTS:**

1. NONE

**ATTACHMENTS:**

- A. Section 099123 – Interior Painting (3 Pages)
- B. Sheet M-002 (1 Page)
- C. Sheet M-102 (1 Page)
- D. Sheet M-401 (1 Page)
- E. Sheet E-201 (1 Page)

**END ADDENDUM 02**

## **SECTION 099123**

### **INTERIOR PAINTING**

#### **PART 1 GENERAL**

##### **1.01 SECTION INCLUDES**

- A. Surface preparation.
- B. Field application of paints.
- C. Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.
  - 1. Mechanical and Electrical:
    - a. In finished areas, paint insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, hangers, brackets, collars and supports, mechanical equipment, and electrical equipment, unless otherwise indicated.
- D. Do Not Paint or Finish the Following Items:
  - 1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
  - 2. Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment.
  - 3. Floors, unless specifically indicated.
  - 4. Glass.
  - 5. Concealed pipes, ducts, and conduits.

##### **1.02 REFERENCE STANDARDS**

- A. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition.

##### **1.03 SUBMITTALS**

- A. Product Data: Provide complete list of products to be used, with the following information for each:
  - 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g., "alkyd enamel").
  - 2. MPI product number (e.g., MPI #47).
  - 3. Cross-reference to specified paint system products to be used in project; include description of each system.

#### **1.04 FIELD CONDITIONS**

- A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

### **PART 2 PRODUCTS**

#### **2.01 MANUFACTURERS**

- A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.
- B. Paints:
  - 1. Behr Paint Company:
  - 2. Diamond Vogel Paints:
  - 3. Sherwin-Williams Company:
  - 4. Vista Paint Corporation:

#### **2.02 PAINTS AND FINISHES - GENERAL**

- A. Paints and Finishes: Ready-mixed, unless intended to be a field-catalyzed paint.
  - 1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
  - 2. Supply each paint material in quantity required to complete entire project's work from a single production run.
  - 3. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.

#### **2.03 PRIMERS**

- A. Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.
  - 1. Alkali Resistant Water Based Primer; MPI #3.

### **PART 3 EXECUTION**

#### **3.01 PREPARATION**

- A. Clean surfaces thoroughly and correct defects prior to application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

- C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.
- D. Seal surfaces that might cause bleed through or staining of topcoat.

### **3.02 APPLICATION**

- A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
- B. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
- C. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- D. Apply each coat to uniform appearance in thicknesses specified by manufacturer.
- E. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- F. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

### **3.03 CLEANING**

- A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

### **3.04 PROTECTION**

- A. Protect finishes until completion of project.
- B. Touch-up damaged finishes after Substantial Completion.

### **3.05 SCHEDULE - PAINT SYSTEMS**

- A. Mechanical terminal units as indicated on Fan Powered VAV Terminal Unit Schedule and VAV Terminal Unit Schedule.
- B. New ductwork and ductwork connections to terminal units.
- C. Touch up paint ductwork for duct cleaning equipment. Coordinate with duct cleaning contractor.

### **END OF SECTION 099123**

**STATE OF MISSOURI**  
**MIKE KEHOE,**  
**GVERNOR**

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Engineer of Record  
Jacob Adam Nelson PE  
PE-2009018758

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The seal is circular with a double-lined border. The outer ring contains the text "STATE OF MISSOURI" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by stars. The inner circle contains the name "JACOB ADAM NELSON", the word "NUMBER", and the license number "PE-2009018758". A horizontal line with arrows at both ends is positioned below the license number.

10/06/2025

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**PROFESSIONAL SEAL**

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The logo features a stylized blue winged figure with its arms raised, holding a white heart shape. Below the figure is the word "TRUE" in large, bold, blue capital letters, followed by "ENGINEERING" in smaller, bold, blue capital letters. Underneath "ENGINEERING" is the text "MECHANICAL • ELECTRICAL • PLUMBING" in a smaller, blue, sans-serif font.

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PUBLIC SAFETY  
DIVISION OF HIGHWAY  
PATROL**

UPDATE HVAC &  
CHILLER, TROOP D  
CRIME LAB

425 East Phelps Street  
Springfield, MO 65806

**PROJECT # R2517-01**  
**SITE # 6022**  
**FACILITY # 8136022022**

REVISION: ADDENDUM 02  
DATE: 01/29/2026  
REVISION:  
DATE:  
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DATE:  
ISSUE DATE: 10/06/2025

CAD DWG FILE: R2517-01  
DRAWN BY: KP  
CHECKED BY: JN  
DESIGNED BY: JK

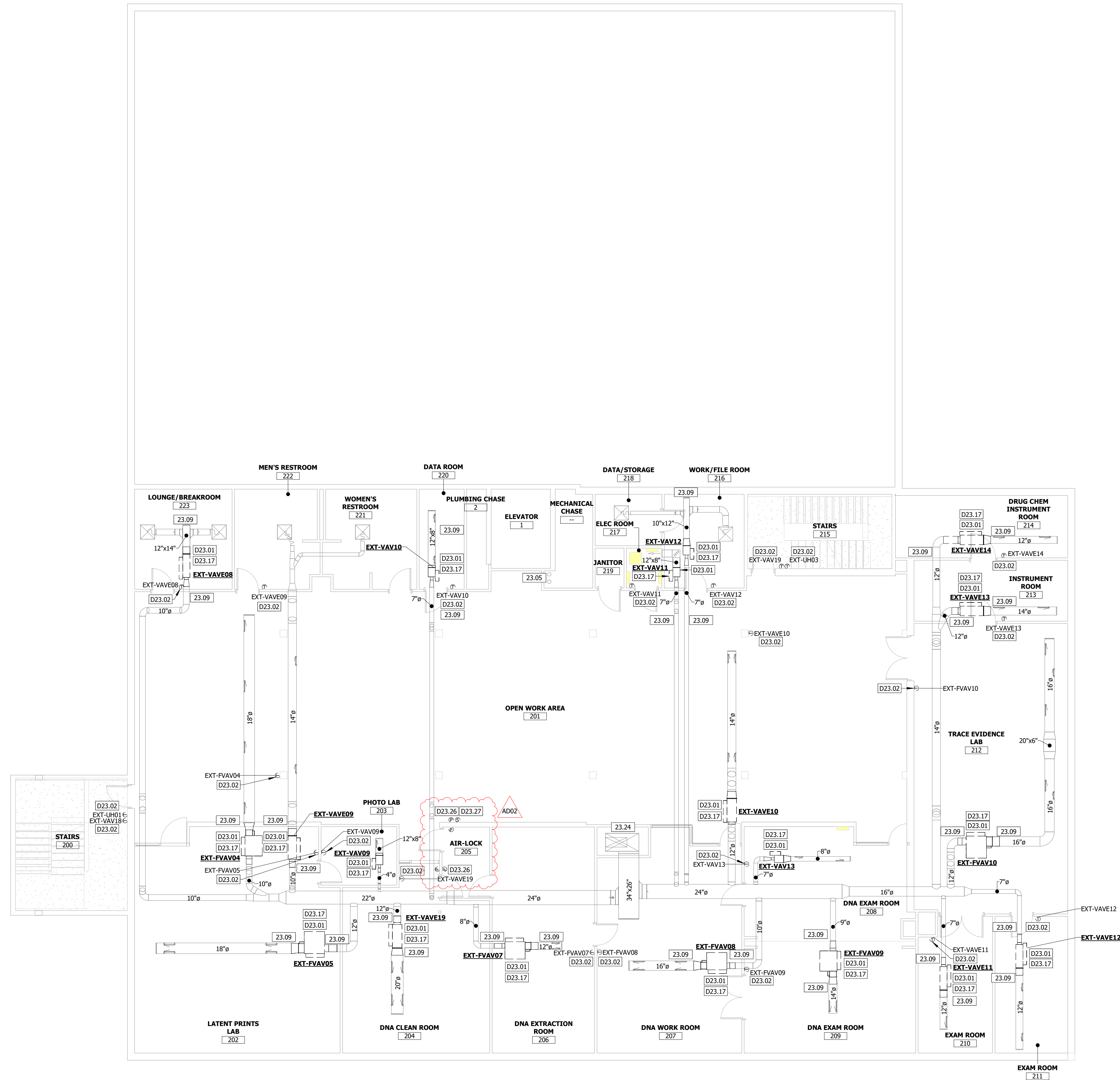
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MECHANICAL  
PLAN - LEVEL 2

SHEET NUMBER:

**M-002**

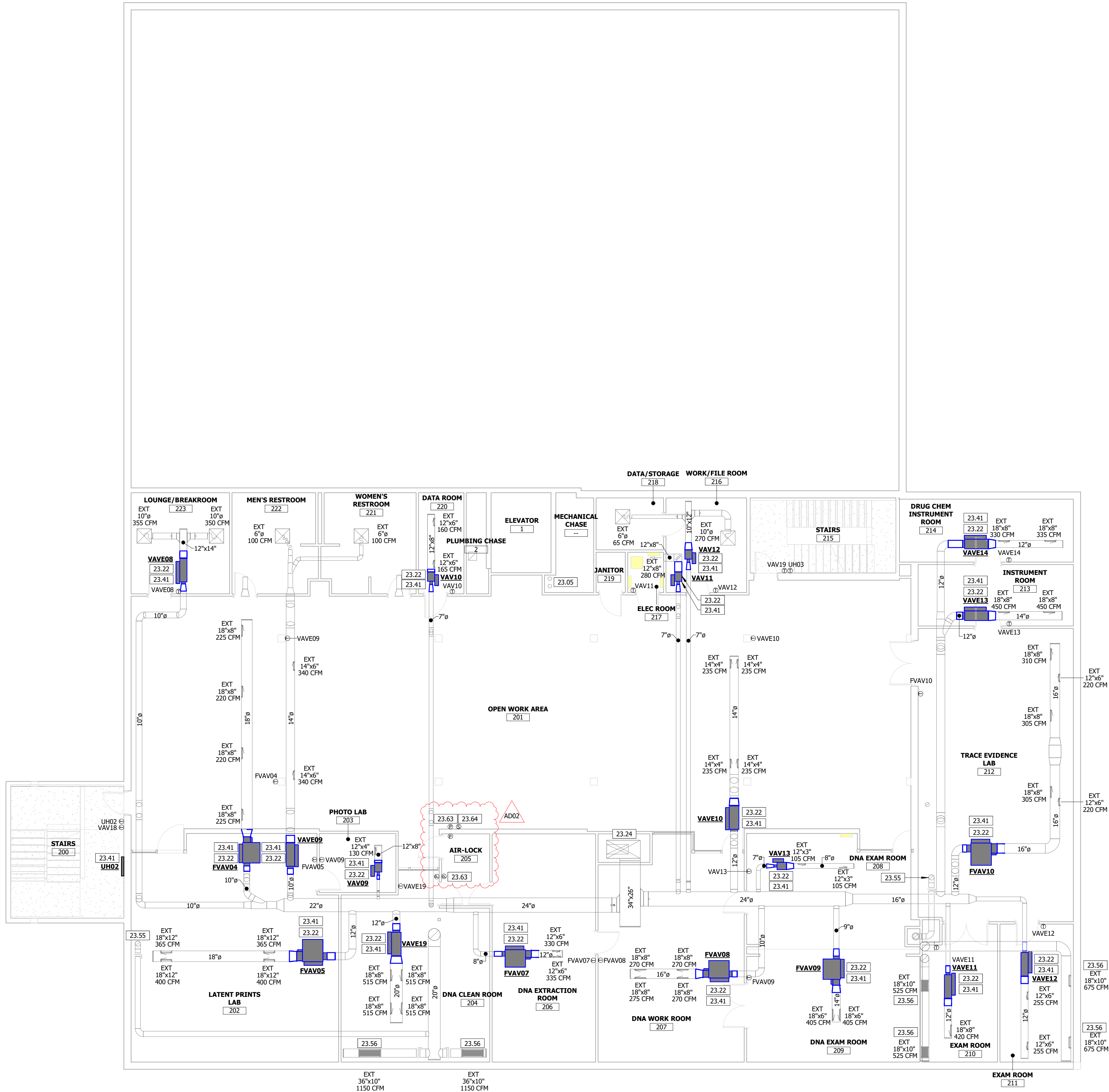
5 of 27 SHEETS  
10/06/2025



1 DEMO MECHANICAL PLAN - LEVEL 2  
1/8" = 1'-0" 



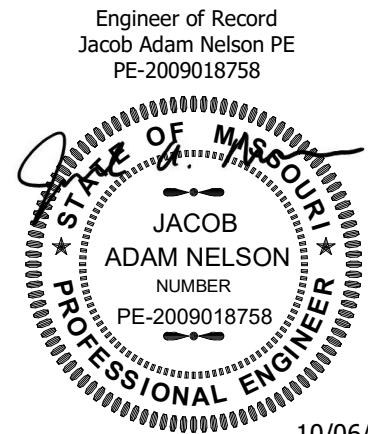
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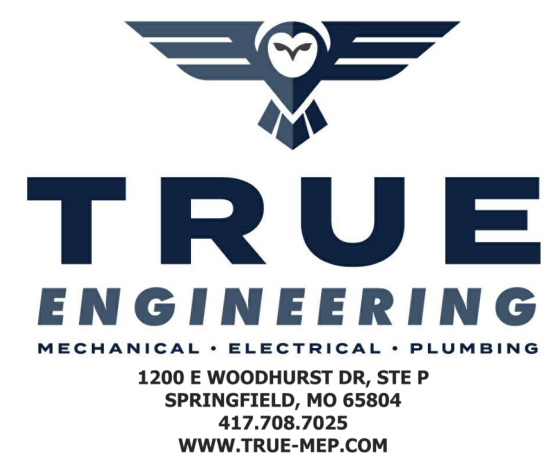
1 MECHANICAL PLAN - LEVEL 2  
1/8" = 1'-0"

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
23.05	EXISTING CHILLED WATER PIPING UP TO THIRD FLOOR SHALL REMAIN.
23.22	INSTALL NEW TERMINAL UNIT. RECONNECT TO EXISTING UPSTREAM AND DOWNSTREAM DUCTWORK. MODIFY EXISTING DUCTWORK AS REQUIRED FOR NEW INSTALLATION. REBALANCE EXISTING AIR DEVICE TO CFM SHOWN ON DRAWINGS.
23.24	EXISTING 56"x10" SUPPLY DUCT UP AND 36"x16" SUPPLY DUCT DOWN SHALL REMAIN.
23.41	FURNISH AND INSTALL NEW CONTROLLER AND LOW VOLTAGE WIRING FOR NEW TERMINAL UNIT.
23.55	REBALANCE EXISTING EXHAUST HOOD. FIELD VERIFY EXHAUST CFM REQUIREMENTS WITH LAB EQUIPMENT ON SITE.
23.56	REBALANCE EXISTING EXHAUST AIR TERMINAL TO CFM LISTED ON DRAWINGS.
23.63	FURNISH AND INSTALL NEW DIFFERENTIAL PRESSURE SENSOR AND ASSOCIATED PLATING.
23.64	FURNISH AND INSTALL NEW PRESSURE MONITOR.

STATE OF MISSOURI  
MIKE KEHOE,  
GOVERNOR



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CAD DWG FILE: R2517-01  
DRAWN BY: KP  
CHECKED BY: JN  
DESIGNED BY: JK

SHEET TITLE:  
MECHANICAL  
PLAN - LEVEL 2

SHEET NUMBER:

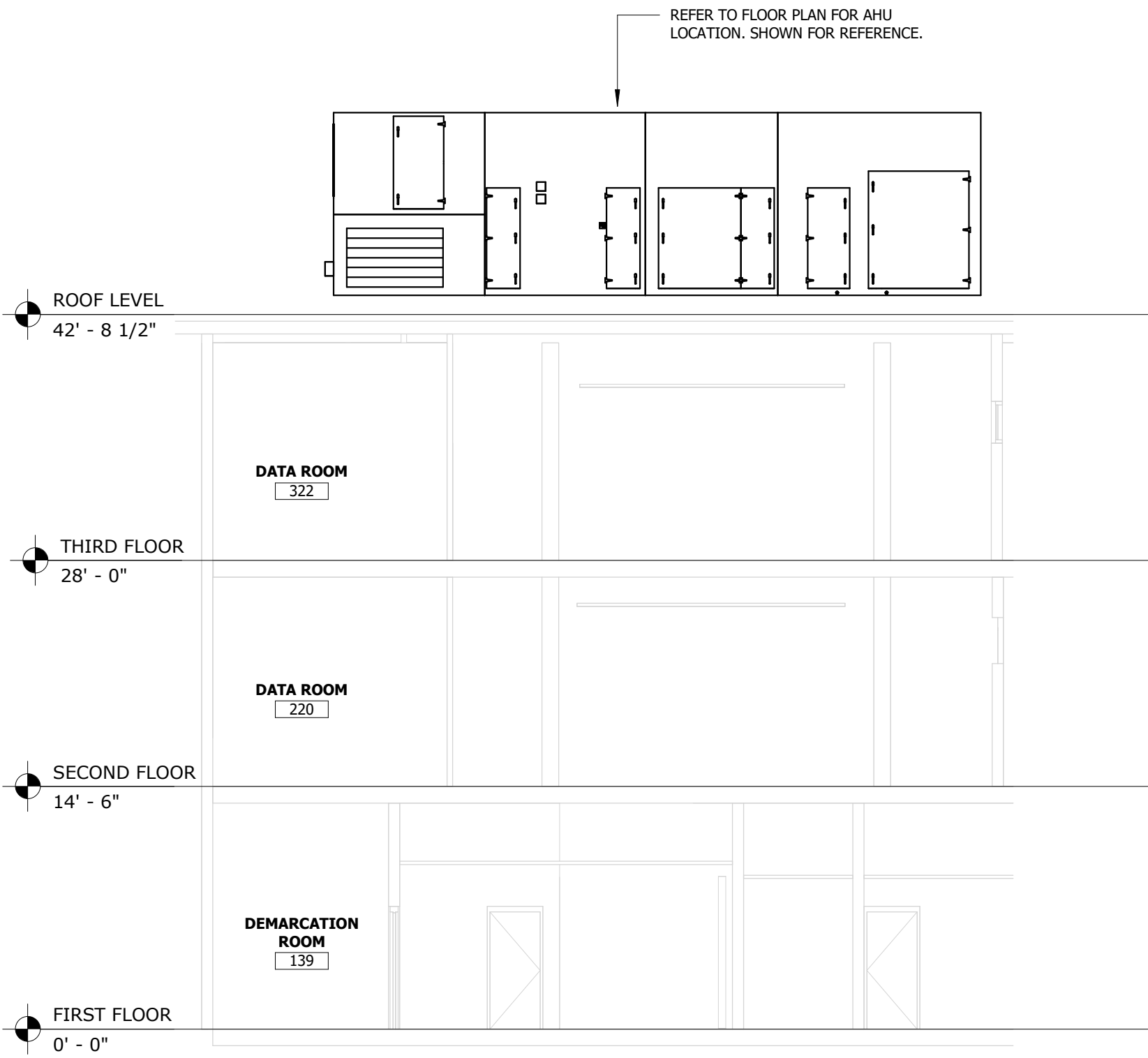
M-102  
9 of 27 SHEETS  
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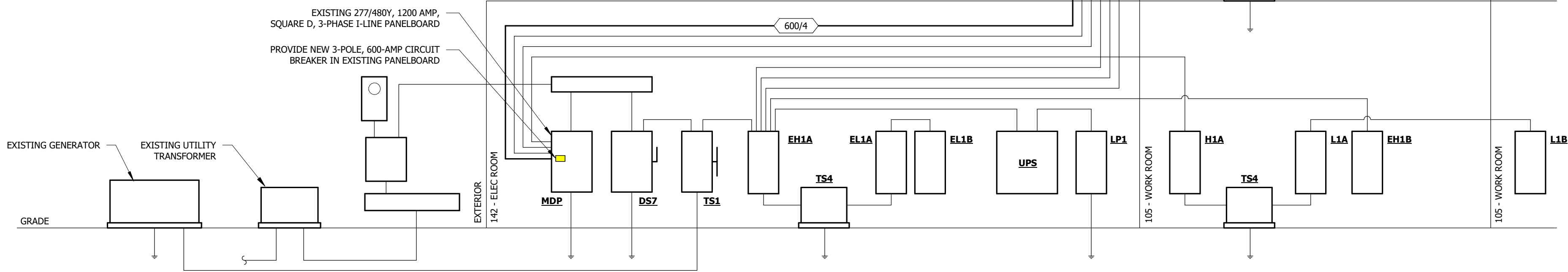
2 ELEVATION DETAIL  
1/8" = 1'-0"

AD02

FEEDER SCHEDULE				
ALL CONDUCTORS SHALL BE COPPER PER SPECIFICATIONS				
FEEDER MARK	PARALLEL SETS	CONDUCTORS CURRENT CARRYING	GROUND	CONDUIT SIZE
600/4	2	(4) #350	(1) #1	3"

#### GENERAL NOTES:

- ALL CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE.
- ALL ABOVE GRADE EXTERIOR CONDUIT SHALL BE IMC.
- JUNCTION BOX/CABINET(S) SHALL BE SIZED PER NEC REQUIREMENTS, AND BEAR NEMA ENCLOSURE RATING FOR APPLICABLE INSTALLTION ENVIRONMENT.
- EXISTING CONDUITIONS INCLUDING BUT NOT LIMITED TO SIZES, RATINGS, LOCATIONS, AND DIMENSIONS SHALL BE FIELD VERIFIED.



1 ELECTRICAL RISER  
NOT TO SCALE

#### Distribution Panel: H4B

Location: ROOF  
Supply From: MDP  
Mounting: SURFACE  
Enclosure: NEMA 3R

Volts: 480/277 Wye  
Phases: 3  
Wires: 4

A.I.C. Rating: 18 KAIC  
Mains Type: MLO  
Mains Rating: 600 A  
Model: I-Line

#### Panelboard Accessories:

1. EQUIPMENT GROUND BAR, 2. TIN PLATED COPPER BUS BARS, 3. PROVIDE 24" SPARE FUTURE CIRCUIT BREAKER SPACE, 4. SURGE PROTECTION DEVICE

CKT	CIRCUIT DESCRIPTION	TRIP	ACCESSORIES	POLES	A	B	C	NOTES
1	EXHAUST FANS	25 A		3	6007 VA	6007 VA	6007 VA	
2	PREHEAT COIL	300 A		3	62077 VA	62077 VA	62077 VA	
3	SUPPLY FANS	80 A		3	21020 VA	21020 VA	21020 VA	
4	STEAM GENERATOR	150 A		3	33333 VA	33333 VA	33333 VA	
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
Total Load:					122437 VA	122437 VA	122437 VA	
Total Amps:					442 A	442 A	442 A	

#### Legend:

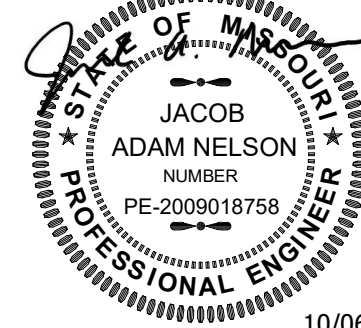
1. HACR = HACR RATED, 2. HLO = HAND LOCK-OFF, 3. GFCI = GROUND FAULT CIRCUIT INTERRUPTER, 4. EXISTING = EXISTING TO REMAIN

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	367311 VA	100.00%	367311 VA	
				Total Conn. Load: 367311 VA
				Total Est. Demand: 367311 VA
				Total Conn.: 442 A
				Total Est. Demand: 442 A

#### Notes:

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MIKE KEHOE,  
GOVERNOR

Engineer of Record  
Jacob Adam Nelson PE  
PE-2009018758



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SHEET TITLE:

ELECTRICAL  
DETAILS AND  
SCHEDULES

SHEET NUMBER:

E-201

27 of 27 SHEETS  
10/06/2025