

## 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.

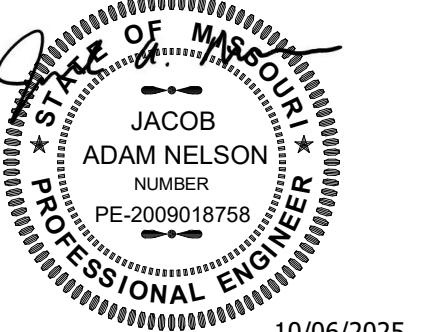
### **3.04 PROTECTION**

- 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**



10/06/2025

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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:  
REVISION:  
DATE:  
ISSUE DATE: 10/06/2025

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

SHEET TITLE:  
DEMO  
MECHANICAL  
PLAN - LEVEL 2

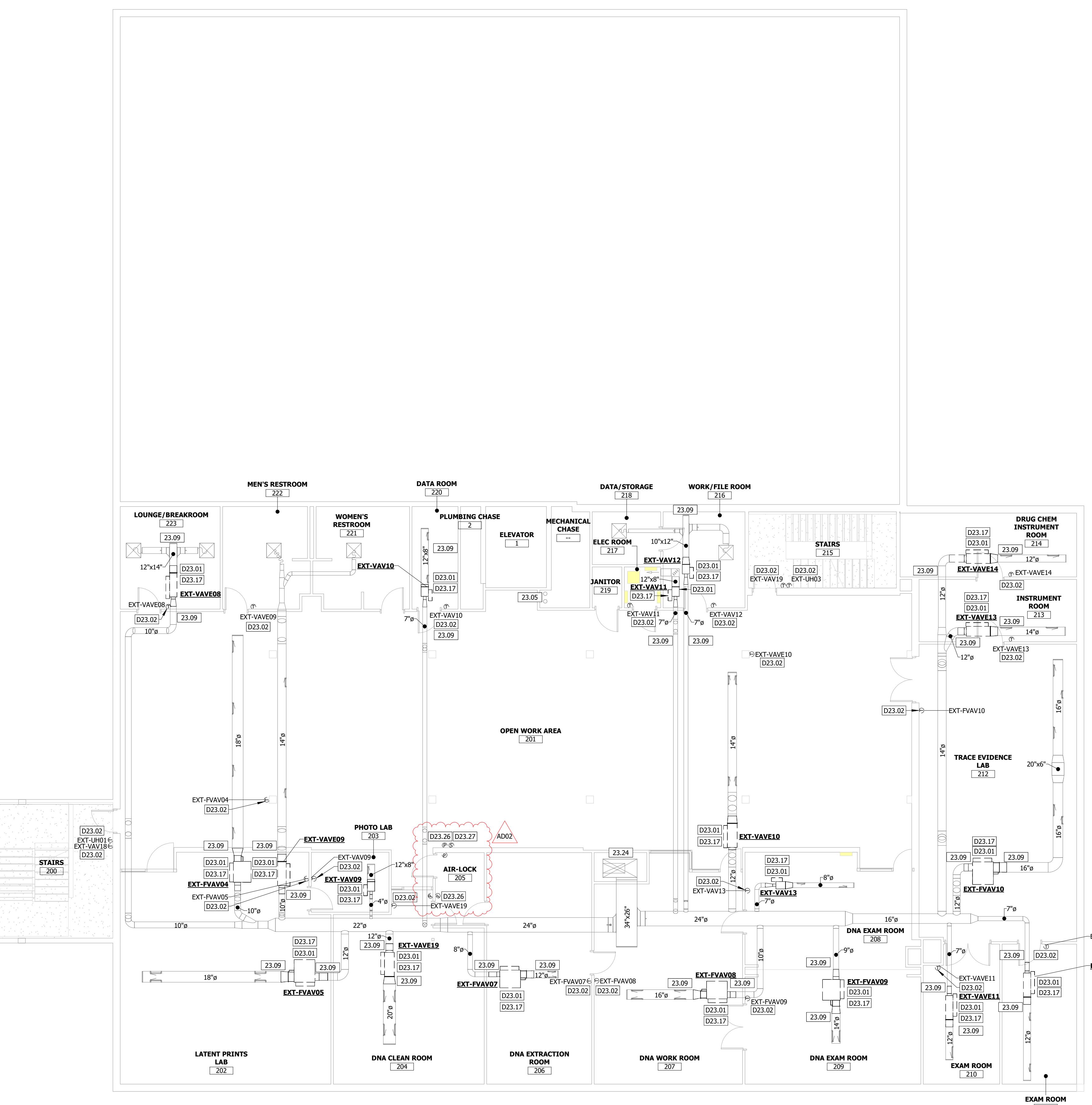
SHEET NUMBER:

**M-002**

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10/06/2025

**KEYNOTE LEGEND**

KEY VALUE	KEYNOTE TEXT
23.05	EXISTING CHILLED WATER PIPING UP TO THIRD FLOOR SHALL REMAIN.
23.09	EXISTING DUCTWORK SHALL REMAIN. SHOWN FOR SYSTEM CLARITY.
23.24	EXISTING 56"X30" SUPPLY DUCT UP AND 36"X16" SUPPLY DUCT DOWN SHALL REMAIN.
D23.01	REMOVE EXISTING TERMINAL UNIT AND ASSOCIATED DUCT. EXISTING AIR DISTRIBUTION SHAL REMAIN. REFER TO IMPROVEMENT PLANS FOR FURTHER INFORMATION.
D23.02	REMOVE EXISTING THERMOSTAT AND ASSOCIATED LOW VOLTAGE WIRE. EXISTING RACEWAY SHALL REMAIN.
D23.17	REMOVE EXISTING CONTROLLERS AND ASSOCIATED LOW VOLTAGE WIRE. EXISTING RACEWAY SHALL REMAIN. REFER TO IMPROVEMENT PLANS FOR FURTHER INFORMATION.
D23.26	REMOVE EXISTING DIFFERENTIAL PRESSURE SENSOR AND ASSOCIATED PLATING. EXISTING TUBING SHALL REMAIN. REFER TO IMPROVEMENT PLAN FOR FURTHER REQUIREMENTS.
D23.27	REMOVE EXISTING DIFFERENTIAL PRESSURE MONITORING SYSTEM AND ASSOCIATED REMOTE ANNUNCIATOR. PROVIDE STAINLESS STEEL FACEPLATE OVER REMOTE ANNUNCIATOR BOX.





10/06/2025

**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 TERMINAL UNIT. REBALANCE EXISTING AIR DEVICES AS SHOWN ON DRAWINGS.
23.24	EXISTING 56"X30" 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 AND REBALANCE 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.

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SHEET TITLE:

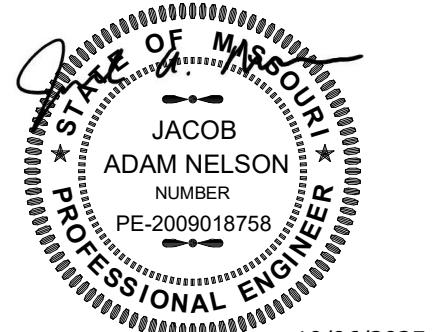
MECHANICAL  
PLAN - LEVEL 2

SHEET NUMBER:

**M-102**

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10/06/2025





## AIR COOLED CHILLER SCHEDULE

NOTES:

1. SINGLE POINT POWER CONNECTION WITH DISCONNECTING MEANS. COORDINATE WITH ELECTRICAL CONTRACTOR.
2. BACNET CONTROL MODULE FOR INTEGRATION WITH BAS SYSTEM. COORDINATE WITH BAS CONTRACTOR.
3. (2) VARIABLE SPEED SCROLL COMPRESSORS FOR MODULATING CAPACITY WITH ADDITIONAL HEAD PRESSURE CONTROL.
4. REFER TO SPECIFICATIONS FOR WARRANTY INFORMATION.
5. PIPE EXTENSION KIT WITH FACTORY INSTALLED FLOW SWITCH.
6. CONDENSER COIL HAIL GUARDS.
7. UNIT SHALL BE SELECTED WITH 30% GLYCOL.

TYPE MARK	MANUFACTURER	MODEL NUMBER	TONNAGE	AMBIENT (F)	HYDRONIC					VOLTAGE	MCA	MOPC	EER	WEIGHT (LBS)	NOTES	EQUIVALENTS
					FLOW (GPM)	PRESSURE DROP (FT)	EWT (F)	LWT (F)								
CH01B	YORK	YLA007051546XFB	70	95	105.9	7.96	58.0	42.0	480/3	170	175	10.39	4597	1 THRU 8	SEE SPECS	
CH01D	YORK	YLA007051546XFB	70	95	105.9	7.96	58.0	42.0	480/3	170	175	10.39	4597	1 THRU 8	SEE SPECS	

## VAV TERMINAL UNIT SCHEDULE

NOTES:

1. PROVIDE SCRIM REINFORCED FOIL FACED LINER.
2. PROVIDE AIR VALVE WITH AVERAGING SENSOR.
3. PROVIDE WITH BOTTOM ACCESS PANELS.
4. PROVIDE FULL UNIT DISCONNECT SWITCH.
5. PROVIDE ELECTRIC HEAT WITH SCR CONTROL.
6. PROVIDE HANGING BRACKETS WITH VIBRATION ISOLATION.
7. PROVIDE DDC CONTROLS COMPATIBLE WITH BUILDING AUTOMATION SYSTEM.
8. PAINT TERMINAL UNIT TO MATCH EXISTING DUCTWORK. PROTECT EQUIPMENT LABEL AND ALL INLETS AND OUTLETS ON THE EQUIPMENT WHILE PAINTING.

TYPE MARK	MANUFACTURER	MODEL	MAX DEPTH	AIRFLOW			ELECTRIC HEATER	INLET/OUTLET STATIC (WC)	MAX NC	CONTROL VOLTAGE	NOTES	EQUIVALENTS	
				COOLING CFM	HEATING CFM	MIN CFM							
VAV01	KRUEGER	LMHS	10"	685	-	125	-	-	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAV02	KRUEGER	LMHS	10"	140	-	40	-	-	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAV03	KRUEGER	LMHS	10"	635	-	125	-	-	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAV04	KRUEGER	LMHS	10"	310	-	65	-	-	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAV05	KRUEGER	LMHS	10"	300	-	65	-	-	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAV06	KRUEGER	LMHS	10"	85	-	40	-	-	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAV07	KRUEGER	LMHS	10"	375	-	90	-	-	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAV08	KRUEGER	LMHS	10"	200	-	65	-	-	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAV09	KRUEGER	LMHS	10"	130	-	40	-	-	1.0"/0.5"	28	120/1	1 THRU 8	TITUS
VAV10	KRUEGER	LMHS	10"	225	-	65	-	-	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAV11	KRUEGER	LMHS	10"	280	-	65	-	-	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAV12	KRUEGER	LMHS	10"	335	-	65	-	-	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAV13	KRUEGER	LMHS	10"	210	-	40	-	-	1.0"/0.5"	28	120/1	1 THRU 8	TITUS
VAV14	KRUEGER	LMHS	10"	410	-	90	-	-	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAV15	KRUEGER	LMHS	10"	310	-	65	-	-	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAV16	KRUEGER	LMHS	10"	185	-	40	-	-	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAV17	KRUEGER	LMHS	10"	540	-	125	-	-	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAV18	KRUEGER	LMHS	13"	945	-	200	-	-	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAV19	KRUEGER	LMHS	10"	520	-	125	-	-	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAVE01	KRUEGER	LMHS	10"	305	85	3	95	480/3	1.0"/0.5"	28	120/1	1 THRU 7	TITUS
VAVE02	KRUEGER	LMHS	10"	540	140	4	95	480/3	1.0"/0.5"	28	277/1	1 THRU 7	TITUS
VAVE03	KRUEGER	LMHS	10"	320	85	4	95	480/3	1.0"/0.5"	28	277/1	1 THRU 7	TITUS
VAVE04	KRUEGER	LMHS	10"	210	55	2.5	95	480/3	1.0"/0.5"	28	277/1	1 THRU 7	TITUS
VAVE05	KRUEGER	LMHS	10"	270	85	3	95	480/3	1.0"/0.5"	28	277/1	1 THRU 7	TITUS
VAVE06	KRUEGER	LMHS	10"	345	85	4	95	480/3	1.0"/0.5"	28	277/1	1 THRU 7	TITUS
VAVE07	KRUEGER	LMHS	15"	1170	300	15	95	480/3	1.0"/0.5"	28	277/1	1 THRU 7	TITUS
VAVE08	KRUEGER	LMHS	15"	705	215	10	95	480/3	1.0"/0.5"	28	277/1	1 THRU 7	TITUS
VAVE09	KRUEGER	LMHS	15"	1140	300	11	95	480/3	1.0"/0.5"	28	277/1	1 THRU 8	TITUS
VAVE10	KRUEGER	LMHS	15"	945	225	11	95	480/3	1.0"/0.5"	28	277/1	1 THRU 8	TITUS
VAVE11	KRUEGER	LMHS	10"	420	125	6	95	480/3	1.0"/0.5"	28	277/1	1 THRU 8	TITUS
VAVE12	KRUEGER	LMHS	15"	510	155	8	95	480/3	1.0"/0.5"	28	277/1	1 THRU 8	TITUS
VAVE13	KRUEGER	LMHS	10"	900	225	22	95	480/3	1.0"/0.5"	28	277/1	1 THRU 8	TITUS
VAVE14	KRUEGER	LMHS	10"	665	190	19	95	480/3	1.0"/0.5"	28	277/1	1 THRU 8	TITUS
VAVE15	KRUEGER	LMHS	15"	550	165	8	95	480/3	1.0"/0.5"	28	277/1	1 THRU 8	TITUS
VAVE16	KRUEGER	LMHS	15"	2145	575	24	95	480/3	1.0"/0.5"	28	277/1	1 THRU 8	TITUS
VAVE17	KRUEGER	LMHS	15"	1620	425	17	95	480/3	1.0"/0.5"	28	277/1	1 THRU 8	TITUS
VAVE18	KRUEGER	LMHS	15"	1620	425	17	95	480/3	1.0"/0.5"	28	277/1	1 THRU 8	TITUS
VAVE19	KRUEGER	LMHS	15"	2060	2060	24	95	480/3	1.0"/0.5"	28	277/1	1 THRU 8	TITUS

## FAN POWERED VAV TERMINAL UNIT SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	UNIT SIZE	IN
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