



**Elizabeth Unger**  
Purchasing Agent

# City of Cambridge

## PURCHASING DEPARTMENT

**SHUO WANG**  
Assistant Purchasing Agent for  
Goods & Services

**NATALIE SULLIVAN**  
Assistant Purchasing Agent for  
Design & Construction

**TO: All Bidders**

**FROM: City of Cambridge**

**DATE: September 23, 2024**

**RE: File No. 11750 – Healy Public Safety Building - RTU Replacement - Addendum No. 5**

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**This addendum is comprised of the following:**

- 1. Bid Opening Postponed – New Bid Opening Date**
- 2. Revised Specifications (Attached)**
- 3. Revised Drawings (Attached)**
- 4. Clarifications**

**Bid Opening Postponed – New Bid Opening Date:**

**The bid opening has been postponed. The new bid opening date is October 10, 2024 at 2:00pm**

**Clarifications:**

**Addendum #2 Answer**

**Question 6: Can the VAV work on the fifth floor be executed during normal business hours?**

**Answer: Due to the 24/7 use of the fifth floor, anticipate a combination of normal business and off-hours to accommodate the users.**

**Addendum #5 Clarification**

**Question 6: Can the VAV work on the fifth floor be executed during normal business hours?**

**Answer: For work in the fifth floor, work to be executed on normal business hours. Any requests by the owner for off-hrs work will be coordinated and paid for post-bid.**

**All other details remain the same.**

**Elizabeth Unger**  
Purchasing Agent

**Addendum No. 5**



# Healy Public Safety Building RTU Replacement, File # 11750

Cambridge, Massachusetts

## ADDENDUM # 5

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September 23, 2024

**From:** Johnson Roberts Associates Inc., Architects  
24 Dane Street  
Somerville, Massachusetts 02143  
tel: (617) 666-8585

**To:** All Prospective Bidders for the  
**Healy Public Safety Building RTU Replacement, File # 11750**  
Cambridge, Massachusetts

The attention of Bidders submitting proposals for the **Healy Public Safety Building RTU Replacement** in Cambridge, Massachusetts is called to the following Addendum to the DRAWINGS and SPECIFICATIONS dated 8/8/24 and prepared by Johnson Roberts Associates, Inc., Architects. The items set forth herein, whether of revision, omission, addition, substitution, or clarification are all to be included.

This addendum modifies the original Contract Documents dated 8/8/24. Portions of the Contract Documents not altered by this addendum shall remain in full force.

**THE NUMBER OF THIS ADDENDUM (NO. 5) MUST BE ENTERED IN THE APPROPRIATE SPACES, PROVIDED AFTER THE WORD "NUMBERED" ON THE FIRST PAGE OF THE FORM FOR GENERAL BID.**

## PROJECT MANUAL

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### PART B - SPECIFICATIONS

**ITEM 5.1** SECTION 015000, CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS, 1.10.A: At the end of this SECTION, ADD the following:

- "4. In reference to the interior Work Area noted on drawing M1.03, please note that the removal of ceiling hung monitors and other displays as well as deck-top monitors and other technology equipment will be removed prior to construction procedures and then reinstalled at the completion of the construction by others.
5. In reference to the interior Work Area noted on drawing M1.03, please note that all floor placed desks, chairs, work stations, and other non-technology items will remain in the Work Area during construction procedures and must be protected. Furnish, erect, and maintain for the duration of the work period in any and all areas temporary fire-retardant dustproof coverings as required to protect all existing furniture and equipment during the execution of the Work."

**ITEM 5.2** SECTION 095100, ACOUSTICAL CEILINGS, 1.02.A.1: At the end of this paragraph, ADD the following sentence:

"Please refer to drawing M1.03, PARTIAL FIFTH FLOOR PLAN - VAV REPLACEMENT, for the extent of ceiling removals in this Work Area. Please note that if required by the WORK, all ceiling panels in this area may need to be removed and re-installed."

**ITEM 5.3** SECTION 095100, ACOUSTICAL CEILINGS, 3.02.B: At the end of the first sentence, INSERT the following sentence:

"Please refer to drawing M1.03, PARTIAL FIFTH FLOOR PLAN - VAV REPLACEMENT, for the extent of ceiling removals in this Work Area. Please note that if required by the WORK, all ceiling panels in this area may need to be removed and re-installed."

## **DRAWINGS**

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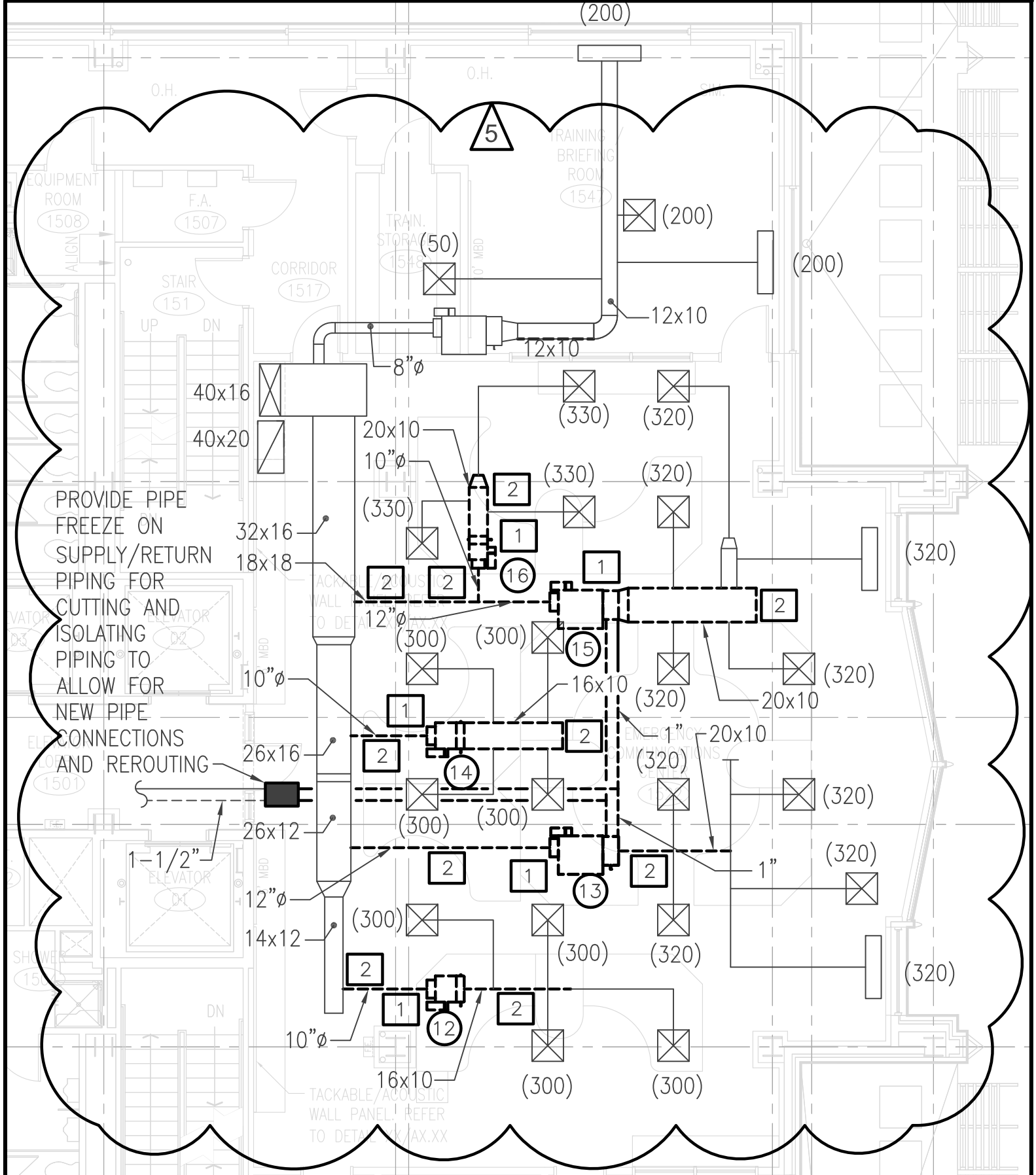
### **MECHANICAL (M-) DRAWINGS**

**ITEM 5.4: Sheet M1.03, PARTIAL FIFTH FLOOR PLAN - VAV REPLACEMENT:** Incorporate revisions/clarifications to fifth floor plan as indicated on sketch SKM-1, SKM-2, SKM-3, SKM-4, SKM-5, SKM-6 & SKM-7. Please note that sketches SKM-6, and 7 are photos of the existing space and are included for reference only.

## **ATTACHMENTS**

Sketches SKM-1, SKM-2, SKM-3, SKM-4, SKM-5, SKM-6 & SKM-7

**End of Addendum No. 5**



**HEALY PUBLIC SAFETY  
BUILDING RTU REPLACEMENT**

125 6th St  
Cambridge, MA 02142  
File # 11750  
Project No: 23021

Drawn By: LV

**SHEET NAME**  
FIFTH FLOOR PARTIAL PLAN  
HVAC VAV DEMO SCOPE

Sheet No.  
**SKM-1**  
9/19/24

5

GENERAL NOTE:

- 1. REFER TO PROJECT SPECIFICATION SECTION 095100 FOR WORK ASSOCIATED WITH TEMPORARY CEILING REMOVAL AND RE-INSTALLATION.
- 2. EXISTING ELECTRONICS/COMPUTER EQUIPMENT INCLUDING MONITORS TO BE REMOVED BY OWNER. FURNITURE/DESKS TO REMAIN AND BE PROTECTED BY THE GENERAL CONTRACTOR DURING THE DURATION OF THE WORK. GENERAL CONTRACTOR TO PROVIDE THE NECESSARY PROTECTION OF EXISTING FURNITURE AND DUST CONTROL TO PERFORM THE WORK REQUIRED FOR THE SCOPE OF WORK INDICATED.
- 3. GENERAL CONTRACTOR TO TEMPORARLY SUPPORT ALL EXISTING LIGHT FIXTURES, SMOKE DETECTORS, FIRE ALARM DEVICES, CAMERAS, TECHNOLOGY COMPONENTS AND RELATED CEILING MOUNTED APPURTENANCES TO ALLOW THE CEILING TO BE DISMANTELED TO PERFORM THE SCOPE OF WORK. ONCE SCOPE OF WORK IS COMPLETE GENERAL CONTRACTOR TO RE-HANG ALL COMPONENTS IN CEILING GRID/TILES.

D

D.3

D.6

E

**1** EXISTING VAV BOX TO BE REMOVED IN ITS ENTIRETY INCLUDING ALL DUCTWORK TO LIMITS SHOWN, CONTROL WIRING, HANGERS, INSULATION AND ALL RELATED APPURTENANCES. REFER TO NEW WORK DRAWING FOR NEW VAV'S IN NEW LOCATIONS AND PROVIDE NEW DUCTWORK AT DUCT SIZES INDICATED AND TO LIMITS SHOWN. PROVIDE NEW VAV CONTROLS AND RE-CONNECT TO EXISTING MS/TP BMS LOOP. UPDATE GRAPHICS ON BMS AND CALIBRATE/BALANCE AS REQUIRED

**2** DISCONNECT AND REMOVE EXISTING DUCTWORK INDICATED AS DASHED LINES INCLUDING INSULATION, HANGERS AND DAMPERS. CONNECT NEW DUCTWORK TO NEW VAV AND EXISTING DUCTWORK, PROVIDE VOLUME DAMPER AT EACH DUCT CONNECTION INCLUDING MAINS AND BRANCH DUCTS. PROVIDE NEW DUCT HANGERS AND DUCT INSULATION AS SPECIFIED. RECONNECT EXISTING BRANCH DUCTS TO NEW MAIN DUCTS

**3** DISCONNECT AND REMOVE EXISTING PIPING INDICATED AS DASHED LINES INCLUDING INSULATION, HANGERS AND VALVES. CONNECT NEW PIPING TO NEW VAV'S AND EXISTING MAINS, PROVIDE ISOLATION VALVES OFF OF MAINS. PROVIDE NEW PIPE HANGERS AND PIPE INSULATION AT 1-1/2" THICK WITH AN ASJ. RECONNECT NEW PIPING TO EXISTING MAINS.



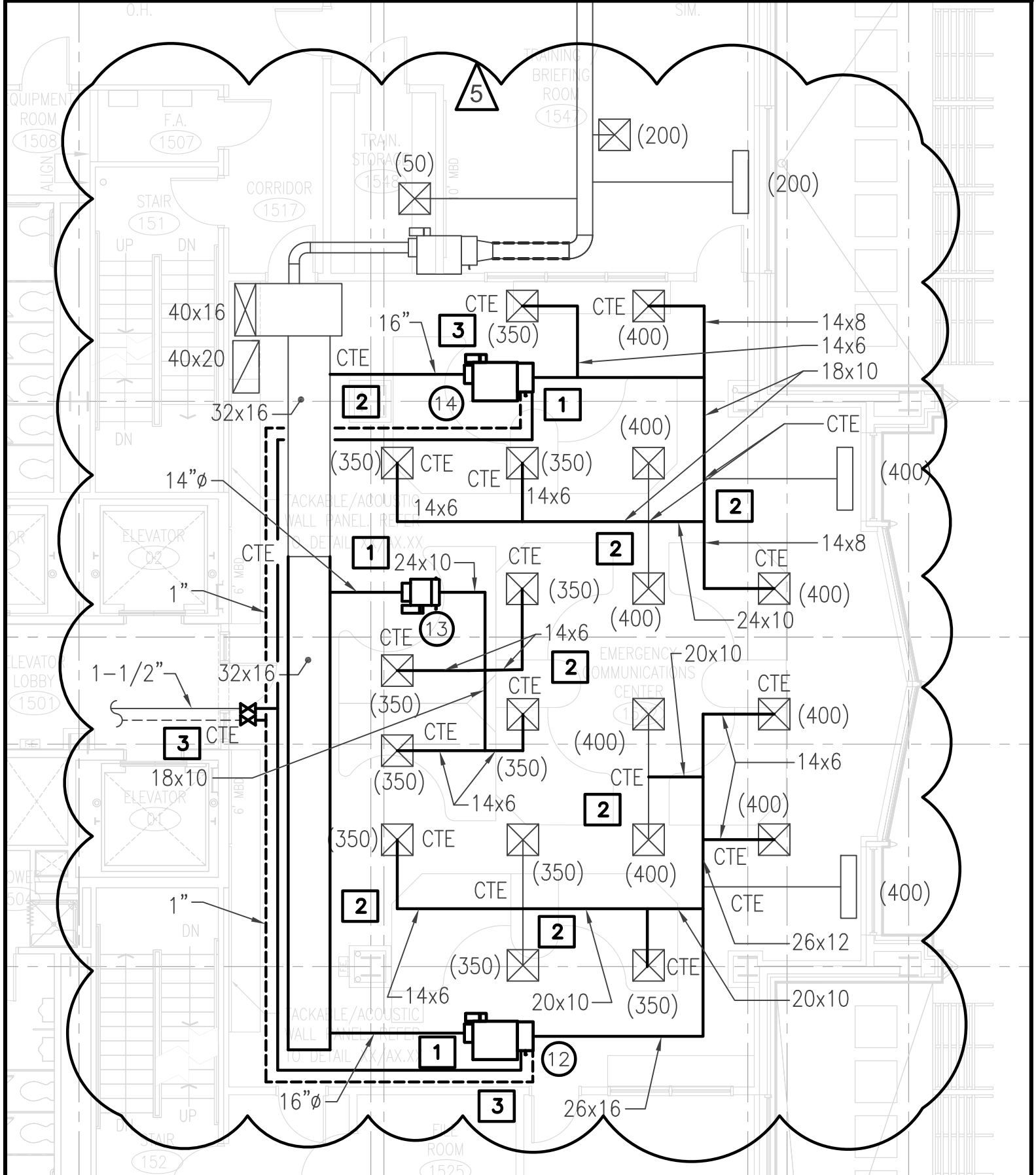
**HEALY PUBLIC SAFETY  
BUILDING RTU REPLACEMENT**

125 6th St  
Cambridge, MA 02142  
File # 11750  
Project No: 23021

Drawn By: LV

SHEET NAME  
FIFTH FLOOR HVAC VAV DEMO  
NOTES

Sheet No.  
**SKM-2**  
9/19/24



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BUILDING RTU REPLACEMENT**

125 6th St  
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Project No: 23021

Drawn By: LV

SHEET NAME  
FIFTH FLOOR PARTIAL PLAN  
HVAC VAV NEW SCOPE

Sheet No.  
**SKM-3**  
9/19/24

5

GENERAL NOTE:

1. REFER TO PROJECT SPECIFICATION SECTION 095100 FOR WORK ASSOCIATED WITH TEMPORARY CEILING REMOVAL AND RE-INSTALLATION.
2. EXISTING ELECTRONICS/COMPUTER EQUIPMENT INCLUDING MONITORS TO BE REMOVED BY OWNER. FURNITURE/DESKS TO REMAIN AND BE PROTECTED BY THE GENERAL CONTRACTOR DURING THE DURATION OF THE WORK. GENERAL CONTRACTOR TO PROVIDE THE NECESSARY PROTECTION OF EXISTING FURNITURE AND DUST CONTROL TO PERFORM THE WORK REQUIRED FOR THE SCOPE OF WORK INDICATED.
3. HVAC CONTRACTOR TO CARRY AN ALLOWANCE OF \$8,000 IN HIS BID TO ACCOUNT FOR ADDITIONAL CONTROL VALVES REQUIRED FOR THE ATC CONTRACTOR TO PROVIDE, WIRE AND PROGRAM.
4. HYDRONIC PIPING SHALL BE TYPE L COPPER AND INSULATED WITH 1-1/2" FIBERGLASS INSULATION WITH ASJ. PIPING AND INSULATION TO BE CARRIED BY THE GC IN HIS BID. REFER TO VAV PIPING DETAIL FOR FURTHER INFO.

VAV	VAV	VAV
3400	1400	3050
1700	700	1500
8.0	NA	8.0
<b>12</b>	<b>13</b>	<b>14</b>

REFER TO VAV SCHEDULE FOR FURTHER VAV INFORMATION

- 1** PROVIDE AND INSTALL NEW VAV BOX IN NEW LOCATIONS AND PROVIDE NEW DUCTWORK AT DUCT SIZES INDICATED AND TO LIMITS SHOWN. PROVIDE NEW VAV CONTROLS AND RE-CONNECT TO EXISTING MS/TP BMS LOOP. UTILIZE EXISTING THERMOSTATS AND RECONNECT TO NEW VAV CONTROLLERS. REMOVE THERMOSTATS AND WIRING FROM EXISTING VAV UNITS THAT HAVE BEEN REMOVED. UPDATE GRAPHICS ON BMS AND CALIBRATE/BALANCE AS REQUIRED
- 2** PROVIDE AND CONNECT NEW DUCTWORK TO NEW VAV AND EXISTING DUCTWORK, PROVIDE VOLUME DAMPER AT EACH DUCT CONNECTION INCLUDING MAINS AND BRANCH DUCTS. PROVIDE NEW DUCT HANGERS AND DUCT INSULATION AS SPECIFIED.
- 3** PROVIDE AND CONNECT NEW PIPING TO NEW VAV'S AND EXISTING MAINS, PROVIDE ISOLATION VALVES OFF OF MAINS. PROVIDE NEW PIPE HANGERS AND PIPE INSULATION AT 1-1/2" THICK WITH AN ASJ.



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SHEET NAME

FIFTH FLOOR HVAC VAV NEW  
WORK NOTES

Sheet No.

**SKM-4**

9/19/24

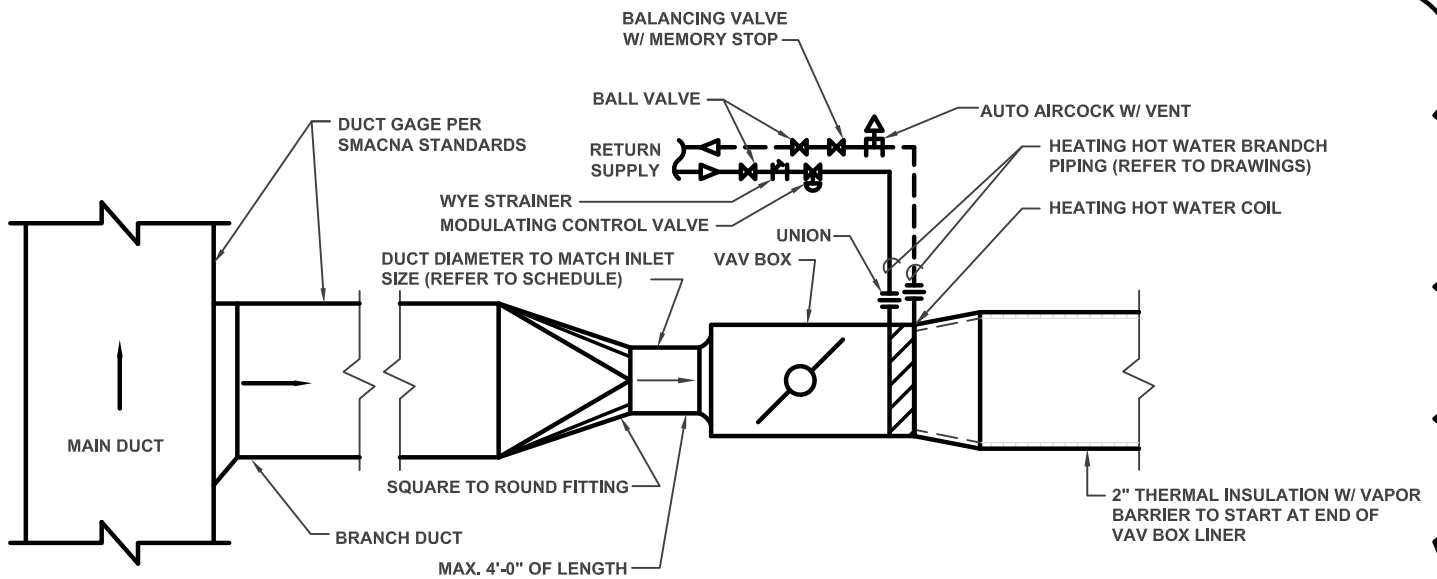
## VAV TERMINAL UNITS

UNIT NO.	MANUF. NO.	SPACE SERVED	CFM		DUCT SIZE INLET	MAX NC	APD	HEATING HW COIL				REMARKS
			MAX	MIN				EAT	LAT	COIL ROW	GPM	
VAV - 12	SDV	5TH FLR ECC	3400	1700	16"Ø	<25	0.5"	55	85	2	8	SEE NOTE #1
VAV - 13	SDV	5TH FLR ECC	1400	700	14"Ø	<25	0.5"	-----	-----	-----	-----	SEE NOTE #1
VAV - 14	SDV	5TH FLR ECC	3050	1500	16"Ø	<25	0.5"	55	85	2	8	SEE NOTE #1

SELECTION BASED ON "PRICE". REFER TO VAV SPECIFICATION FOR

NOTE #1: REMOVE THE EXISTING INLET DUCT IN ITS ENTIRETY FOR ASSOCIATED VAV AND PROVIDE A NEW INSULATED INLET SUPPLY DUCT PER THE CONTRACT DOCUMENTS. CONNECT NEW INLET VAV DUCT TO EXISTING MAIN SUPPLY DUCT AND NEW VAV, PROVIDE ALL NECESSARY FITTINGS, HANGERS, INSULATION AND DUCT SEALANT AS REQUIRED FOR A COMPLETE DUCTED SYSTEM. CONNECT NEW VAV OUTLET TO EXISTING DUCTWORK OR EXISTING DIFFUSER. PROVIDE ALL NECESSARY DEMO OF EXISTING DUCT, AND ANY NEW FITTINGS, HANGERS, INSULATION AND FASTENERS.

5



**TYPICAL VAV BOX ASSEMBLY DETAIL**

(NOT TO SCALE)



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SHEET NAME  
HVAC DETAILS AND  
SCHEDULES

Sheet No.

**SKM-5**

9/19/24





**HEALY PUBLIC SAFETY  
BUILDING RTU REPLACEMENT**

125 6th St  
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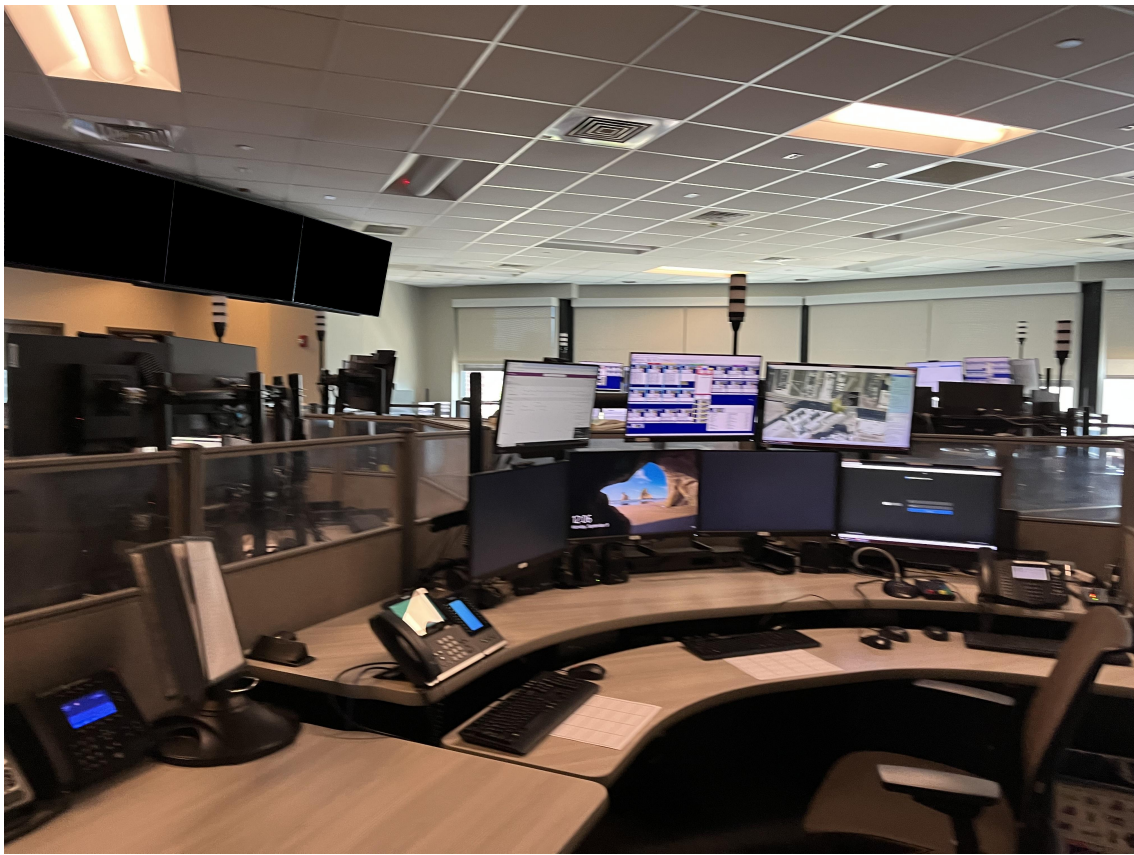
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SHEET NAME  
PICTURES IN EMERGENCY  
COMMUNICATION CENTER  
ROOM #1522

Sheet No.

**SKM-6**

9/19/24



**HEALY PUBLIC SAFETY  
BUILDING RTU REPLACEMENT**

125 6th St  
Cambridge, MA 02142  
File # 11750  
Project No: 23021

Drawn By: LV

SHEET NAME  
PICTURES IN EMERGENCY  
COMMUNICATION CENTER  
ROOM #1522

Sheet No.

**SKM-7**

9/19/24