

**Coltrane-Webb / Beverly Hills  
Replacement Elementary School**

61 Spring St NW, Concord NC 28025

YCHA COM #: 22339.00

PHASE & DATE:  
**Final Construction Documents**

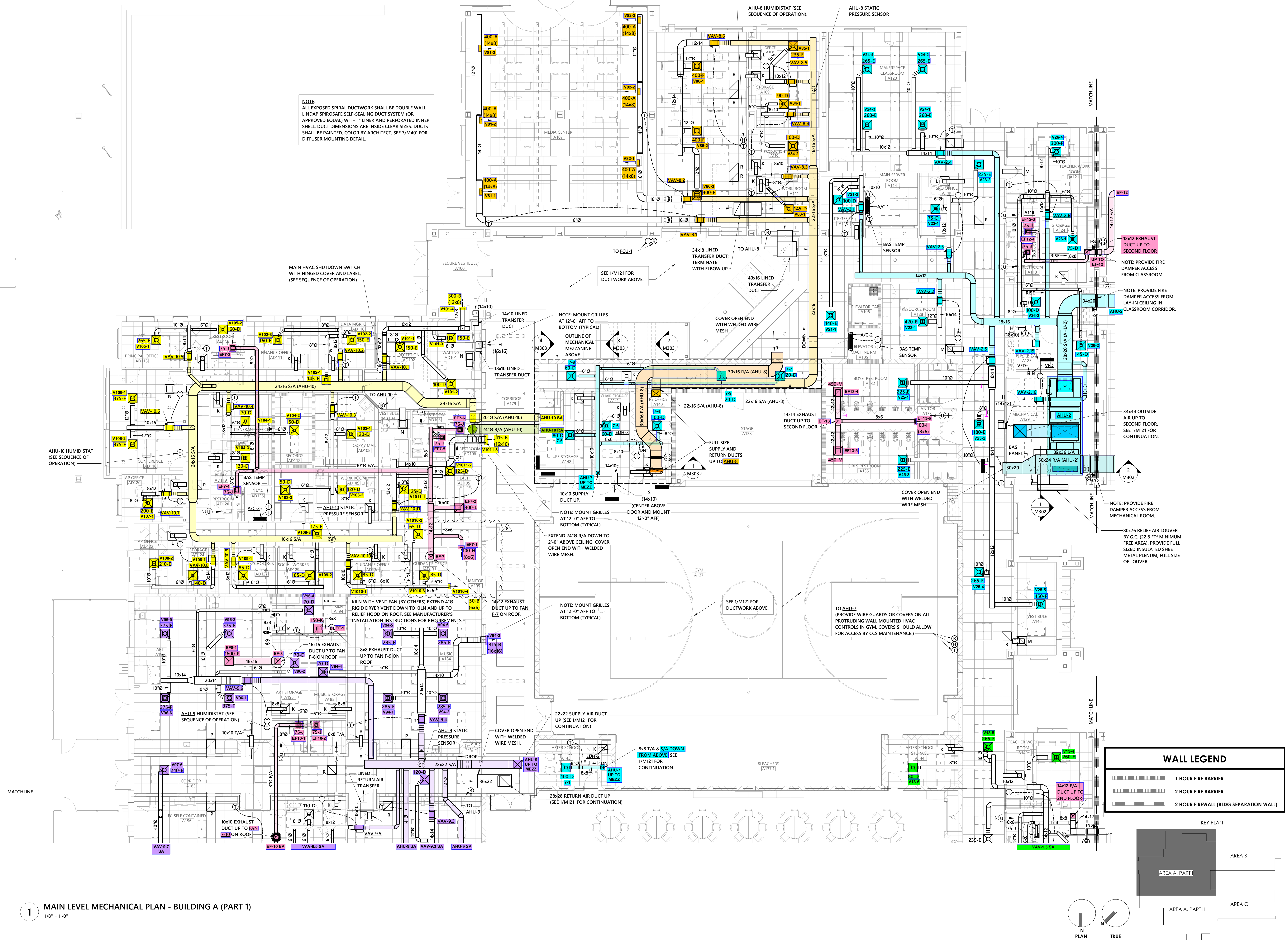
10/21/2024

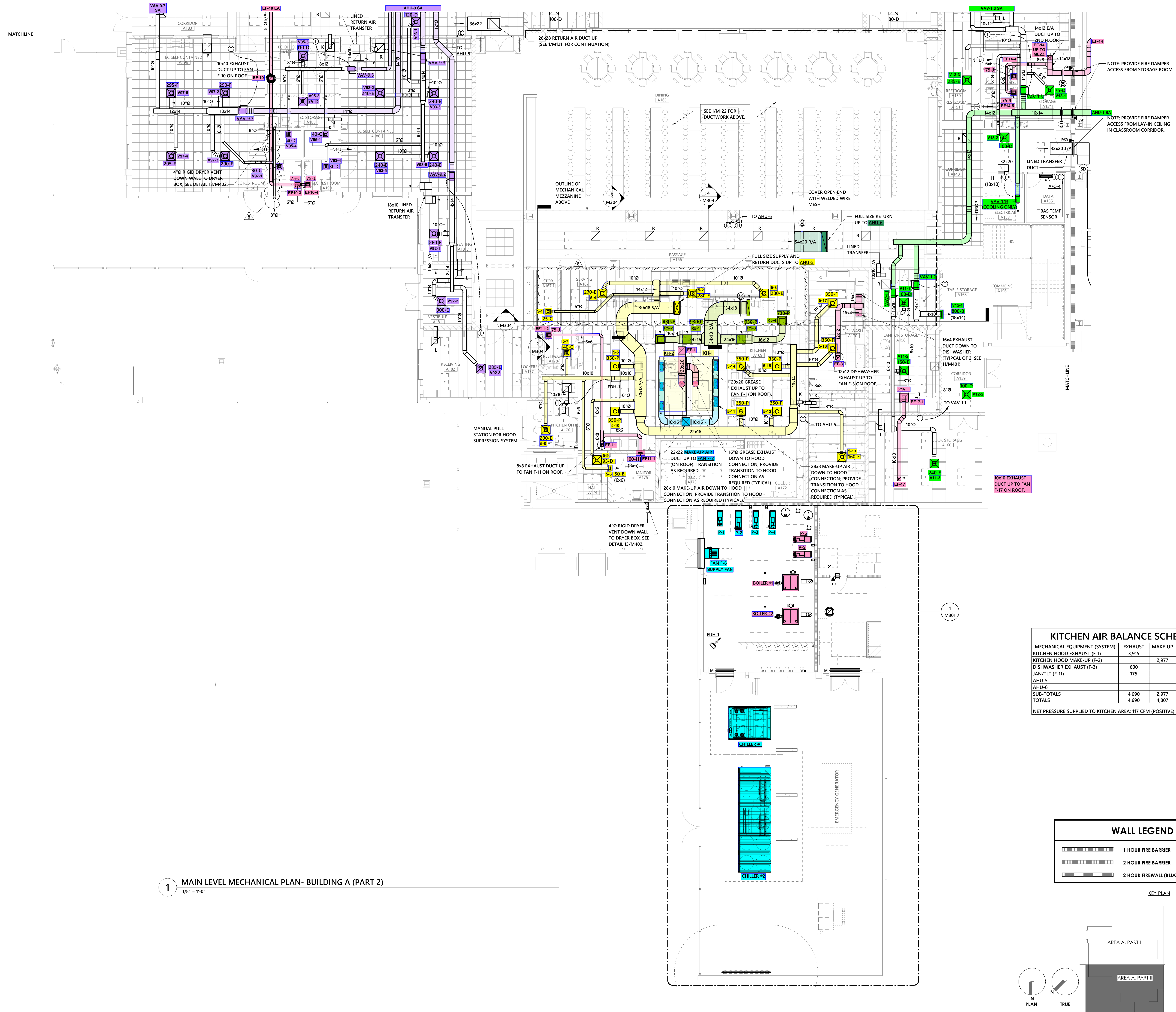
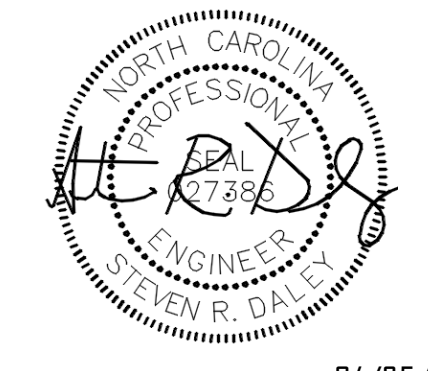
REVISIONS:  
8 Revision 8 04/25/25

SHEET TITLE:  
**MAIN LEVEL MECHANICAL PLAN - BUILDING A (PART 1)**

ARCHITECTURAL:

**M111**





**1 MAIN LEVEL MECHANICAL PLAN- BUILDING A (PART 2)**  
1/8" = 1'-0"

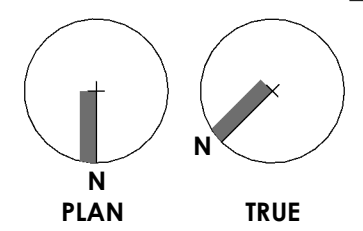
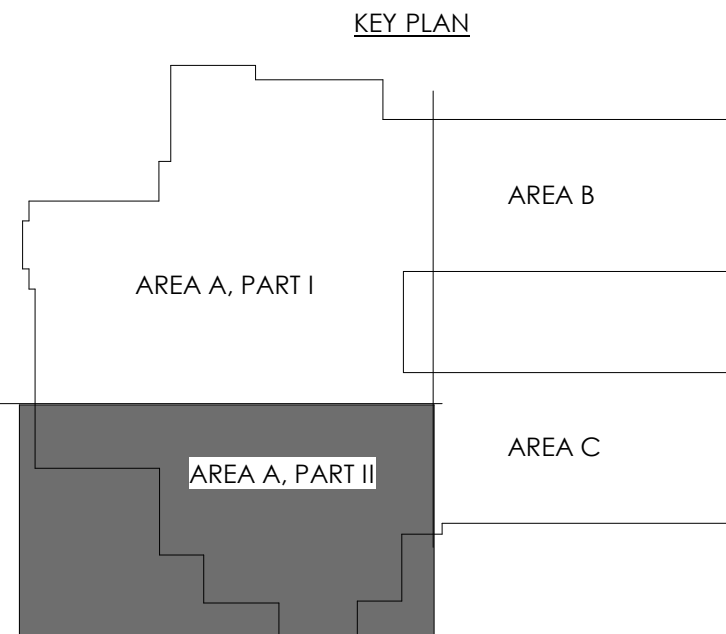
**KITCHEN AIR BALANCE SCHEDULE**

| MECHANICAL EQUIPMENT (SYSTEM) | EXHAUST      | MAKE-UP      | OUTSIDE AIR  |
|-------------------------------|--------------|--------------|--------------|
| KITCHEN HOOD EXHAUST (F-1)    | 3,915        |              |              |
| KITCHEN HOOD MAKE-UP (F-2)    |              | 2,977        |              |
| DISHWASHER EXHAUST (F-3)      | 600          |              |              |
| JAN/TLT (F-10)                | 175          |              |              |
| AHU-5                         |              |              | 680          |
| AHU-6                         |              |              | 1,150 (MIN.) |
| <b>SUB-TOTALS</b>             | <b>4,690</b> | <b>2,977</b> | <b>1,830</b> |
| <b>TOTALS</b>                 | <b>4,690</b> | <b>4,807</b> |              |

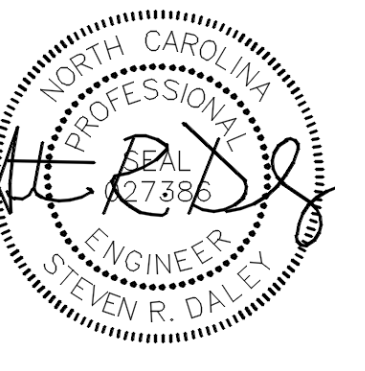
NET PRESSURE SUPPLIED TO KITCHEN AREA: 117 CFM (POSITIVE)

**WALL LEGEND**

|  |  |
|--|--|
|  | 1 HOUR FIRE BARRIER                    |
|  | 2 HOUR FIRE BARRIER                    |
|  | 2 HOUR FIREWALL (BLDG SEPARATION WALL) |







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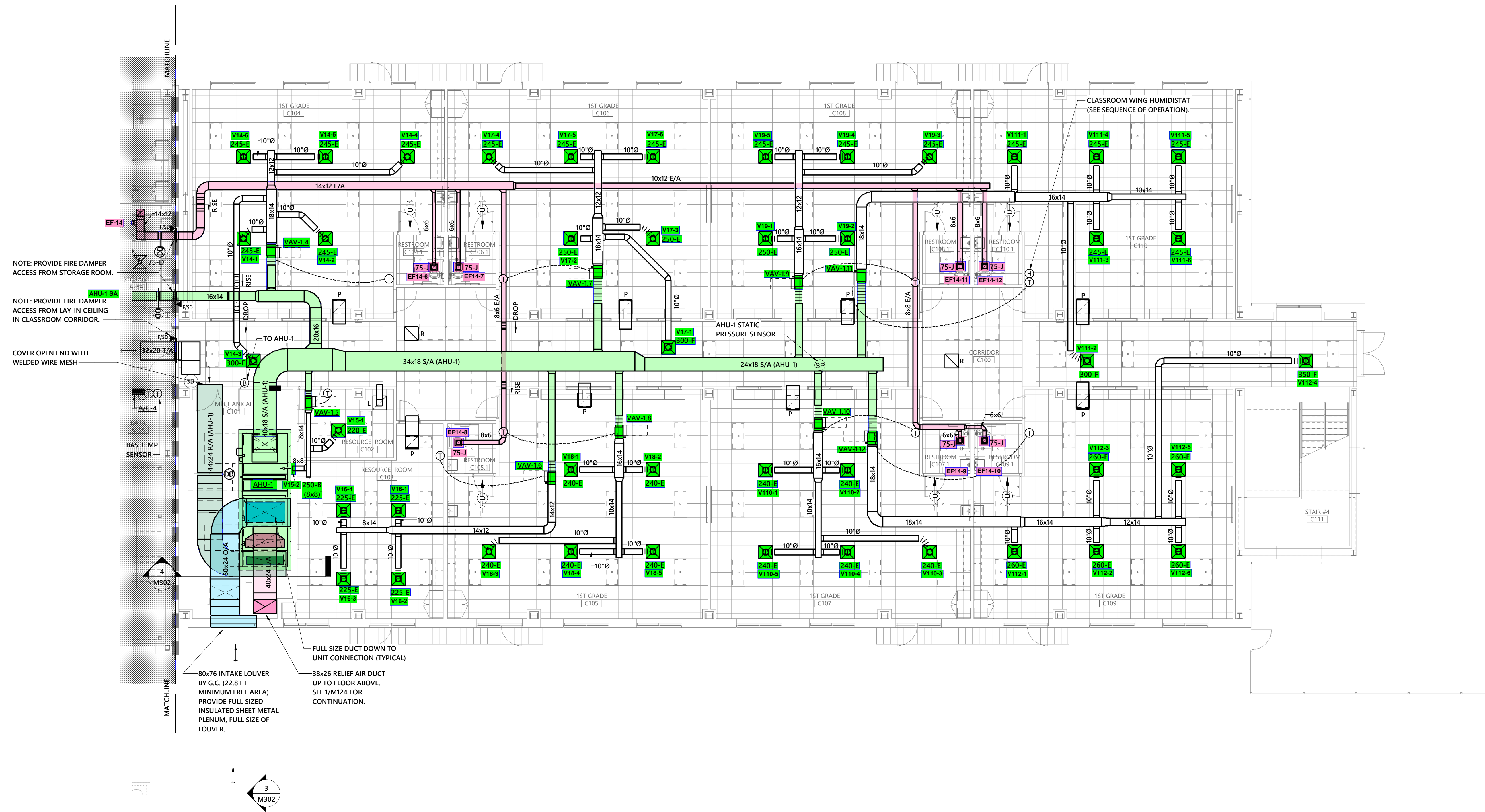
10/21/2024

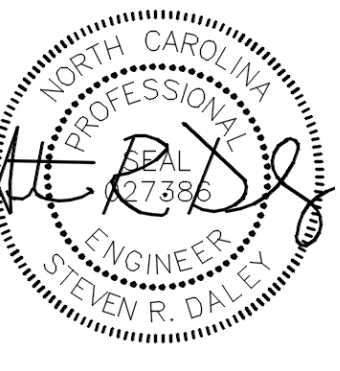
REVISIONS:

SHEET TITLE:  
**MAIN LEVEL MECHANICAL PLAN - BUILDING C**

ARCHITECTURAL:

**M114**





10-21-2024

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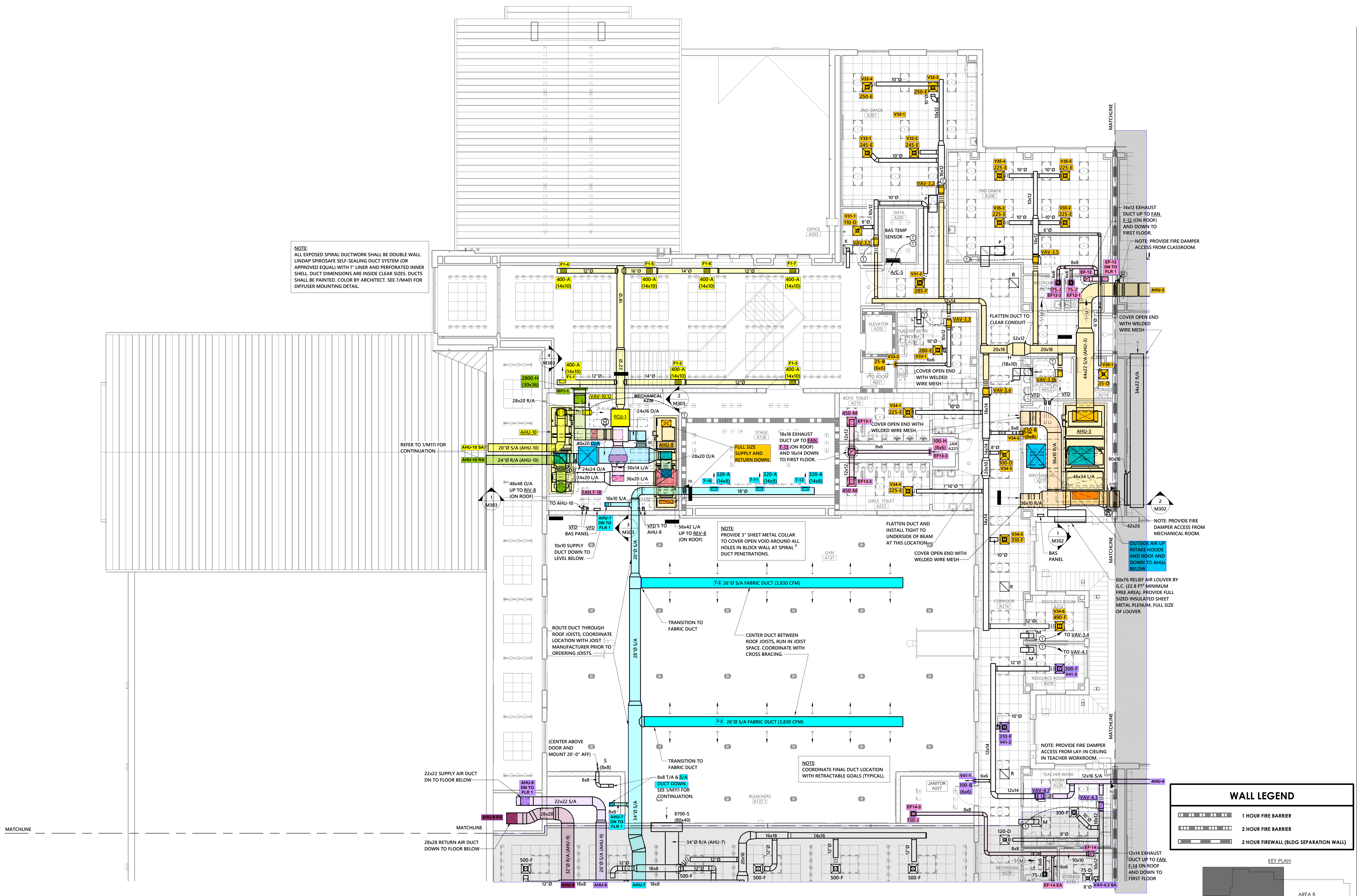
10/21/2024

REVISIONS:

SHEET TITLE:  
**UPPER LEVEL  
MECHANICAL PLAN -  
BUILDING A (PART 1)**

ARCHITECTURAL:

**M121**



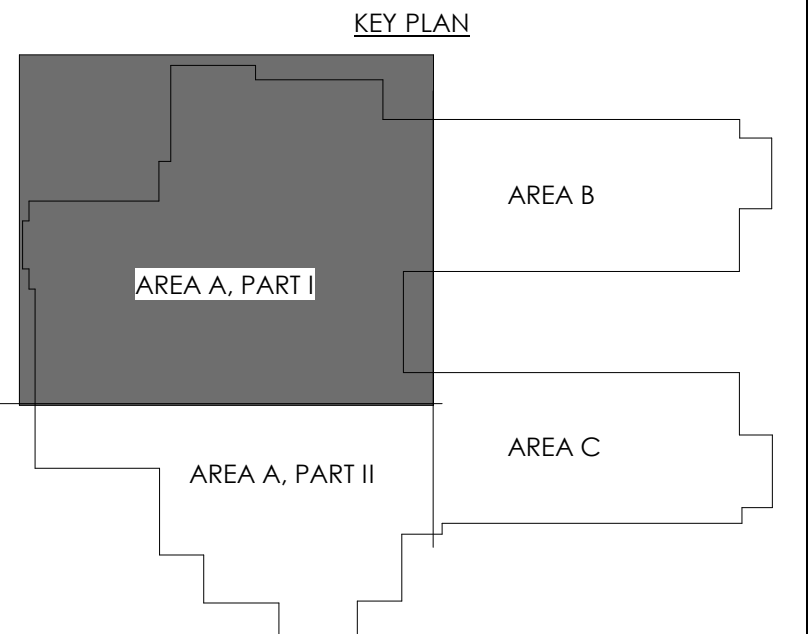
NOTE:  
ALL EXPOSED SPIRAL DUCTWORK SHALL BE DOUBLE WALL LINDAP SPIROSAFE SELF-SEALING DUCT SYSTEM (OR APPROVED EQUAL) WITH 1" LINER AND PERFORATED INNER SHELL. DUCT DIMENSIONS ARE INSIDE CLEAR SIZES. DUCTS SHALL BE PAINTED. COLOR BY ARCHITECT. SEE 7/M401 FOR DIFFUSER MOUNTING DETAIL.

NOTE:  
PROVIDE 3" SHEET METAL COLLAR TO COVER OPEN VOID AROUND ALL HOLES IN BLOCK WALL AT SPIRAL DUCT PENETRATIONS.

NOTE:  
COORDINATE FINAL DUCT LOCATION WITH RETRACTABLE GOALS (TYPICAL).

**WALL LEGEND**

|                            |  |
|----------------------------|--|
| [Symbol: Dashed line]      | 1 HOUR FIRE BARRIER                    |
| [Symbol: Solid line]       | 2 HOUR FIRE BARRIER                    |
| [Symbol: Thick solid line] | 2 HOUR FIREWALL (BLDG SEPARATION WALL) |



**1** UPPER LEVEL MECHANICAL PLAN - BUILDING A (PART 1)  
1/8" = 1'-0"



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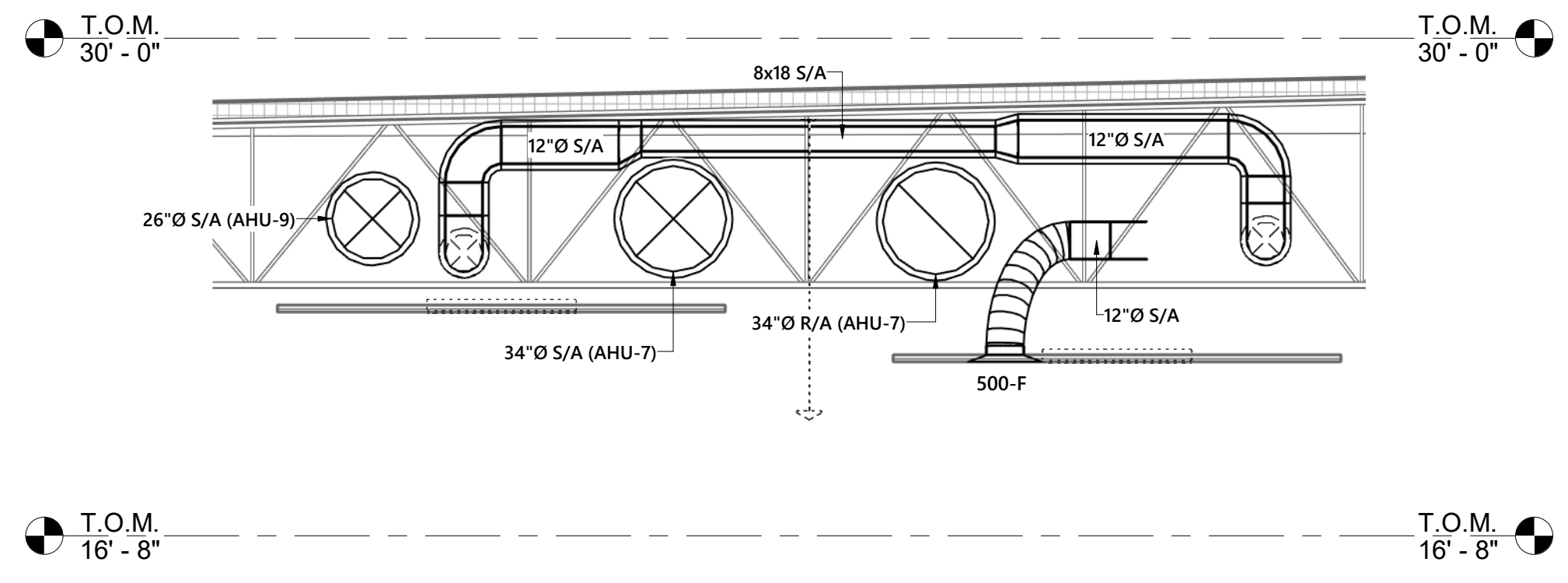
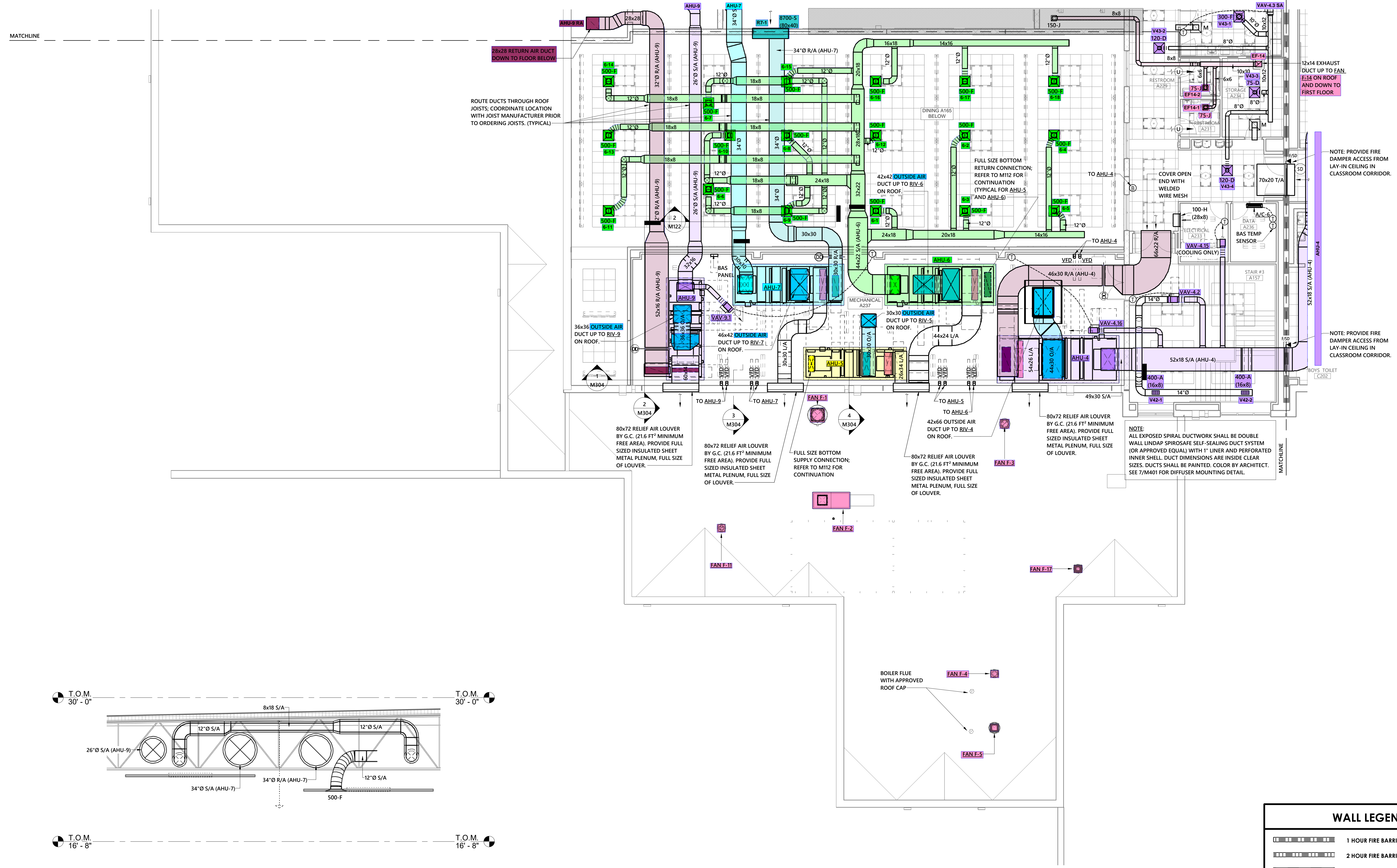
10/21/2024

REVISIONS:

SHEET TITLE:  
**UPPER LEVEL  
MECHANICAL PLAN -  
BUILDING A (PART 2)**

ARCHITECTURAL:

**M122**

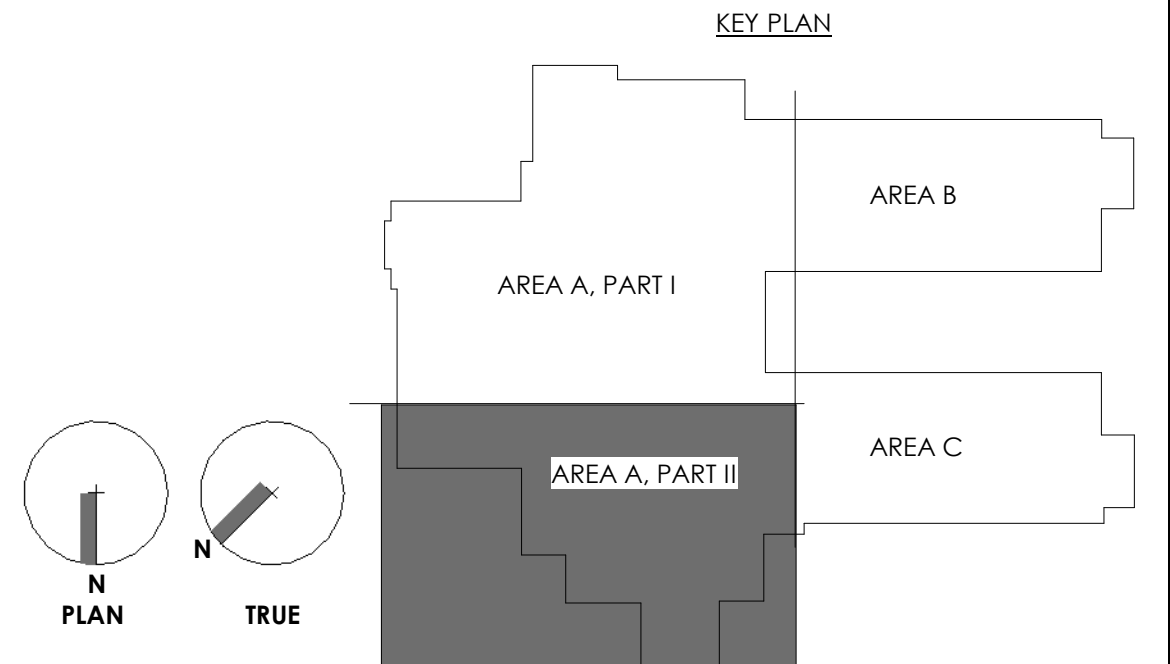


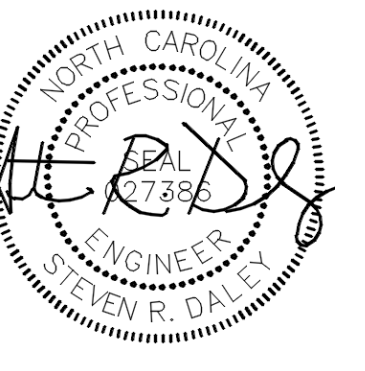
**2 SECTION AT DINING CEILING**  
1/4" = 1'-0"

**1 UPPER LEVEL MECHANICAL PLAN - BUILDING A (PART 2)**  
1/8" = 1'-0"

**WALL LEGEND**

|  |  |
|--|--|
|  | 1 HOUR FIRE BARRIER                    |
|  | 2 HOUR FIRE BARRIER                    |
|  | 2 HOUR FIREWALL (BLDG SEPARATION WALL) |





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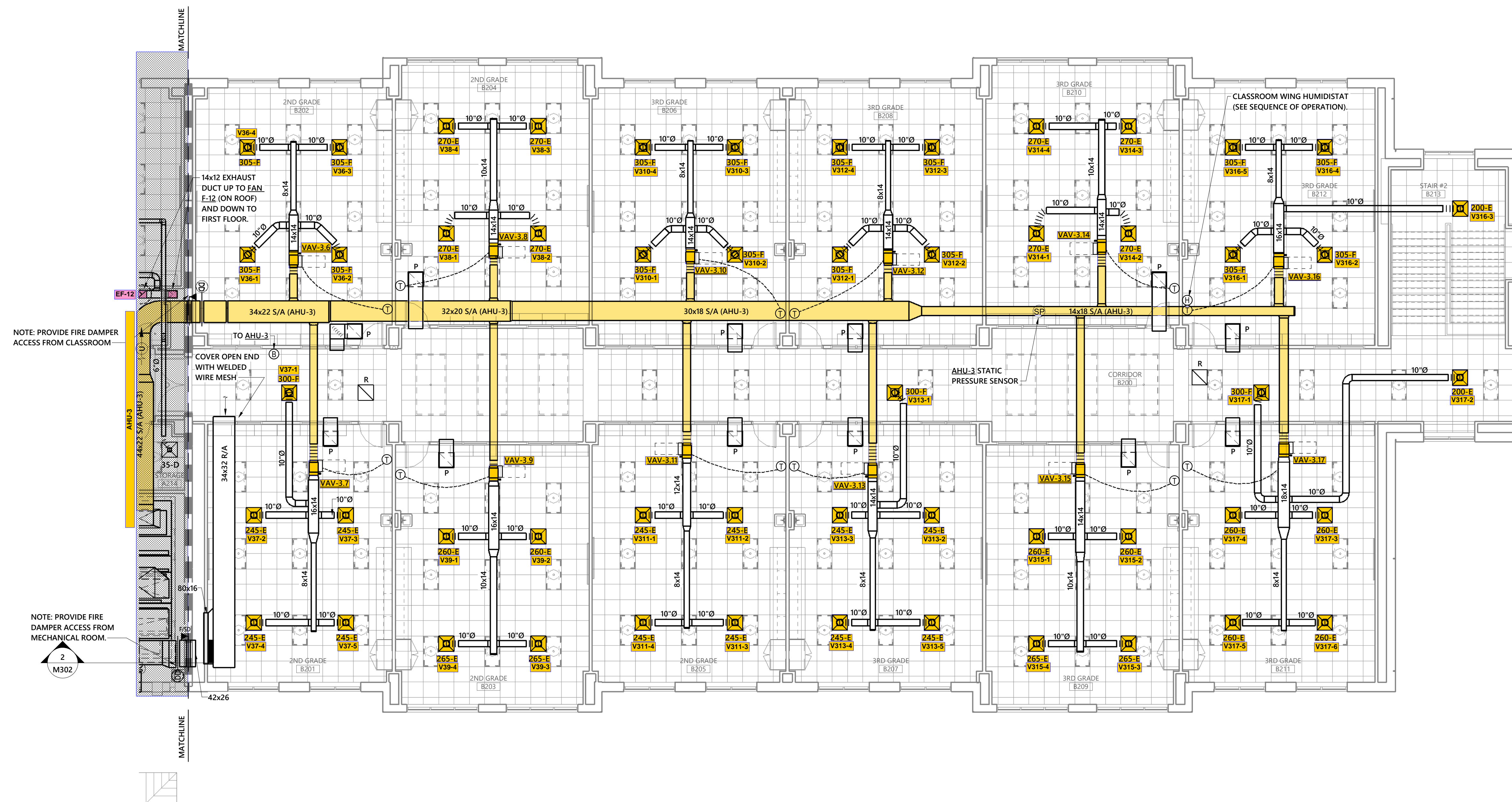
10/21/2024

REVISIONS:

SHEET TITLE:  
**UPPER LEVEL MECHANICAL PLAN - BUILDING B**

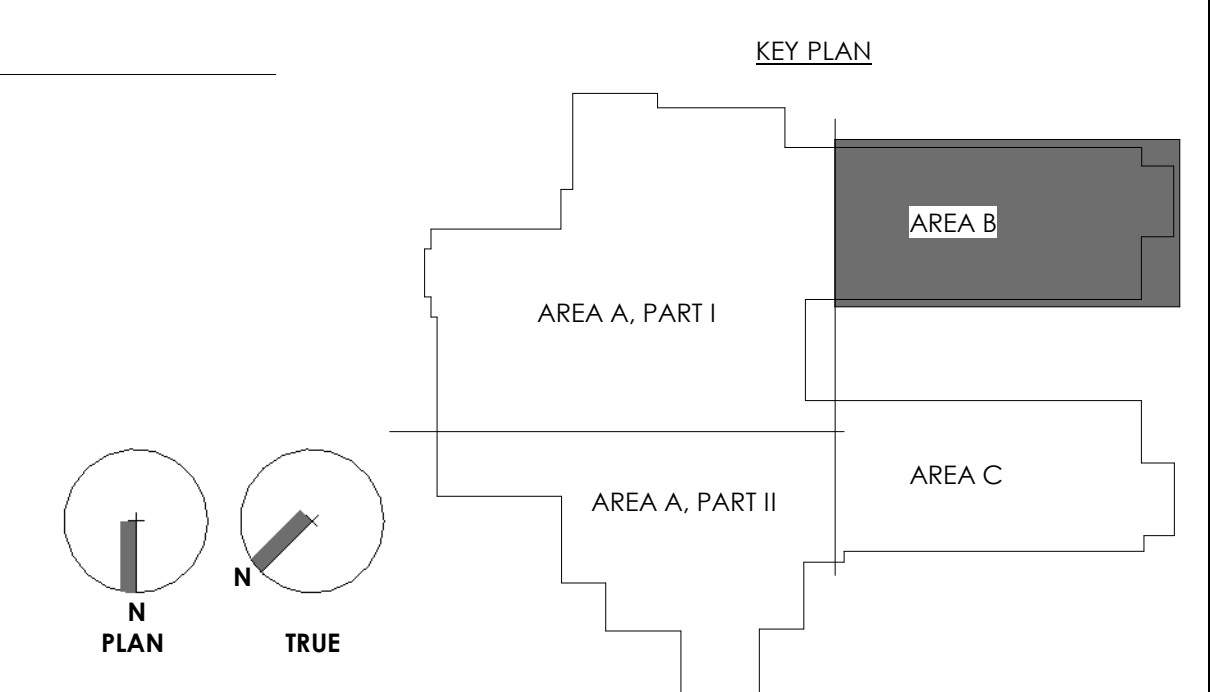
ARCHITECTURAL:

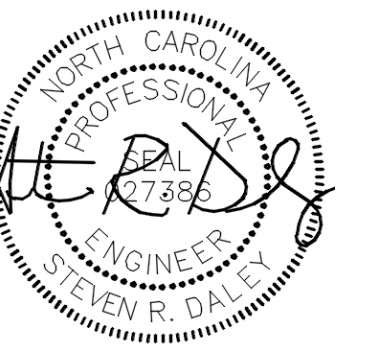
**M123**



**1 UPPER LEVEL MECHANICAL PLAN - BUILDING B**  
1/8" = 1'-0"

| WALL LEGEND |  |
|-------------|--|
|             | 1 HOUR FIRE BARRIER                    |
|             | 2 HOUR FIRE BARRIER                    |
|             | 2 HOUR FIREWALL (BLDG SEPARATION WALL) |





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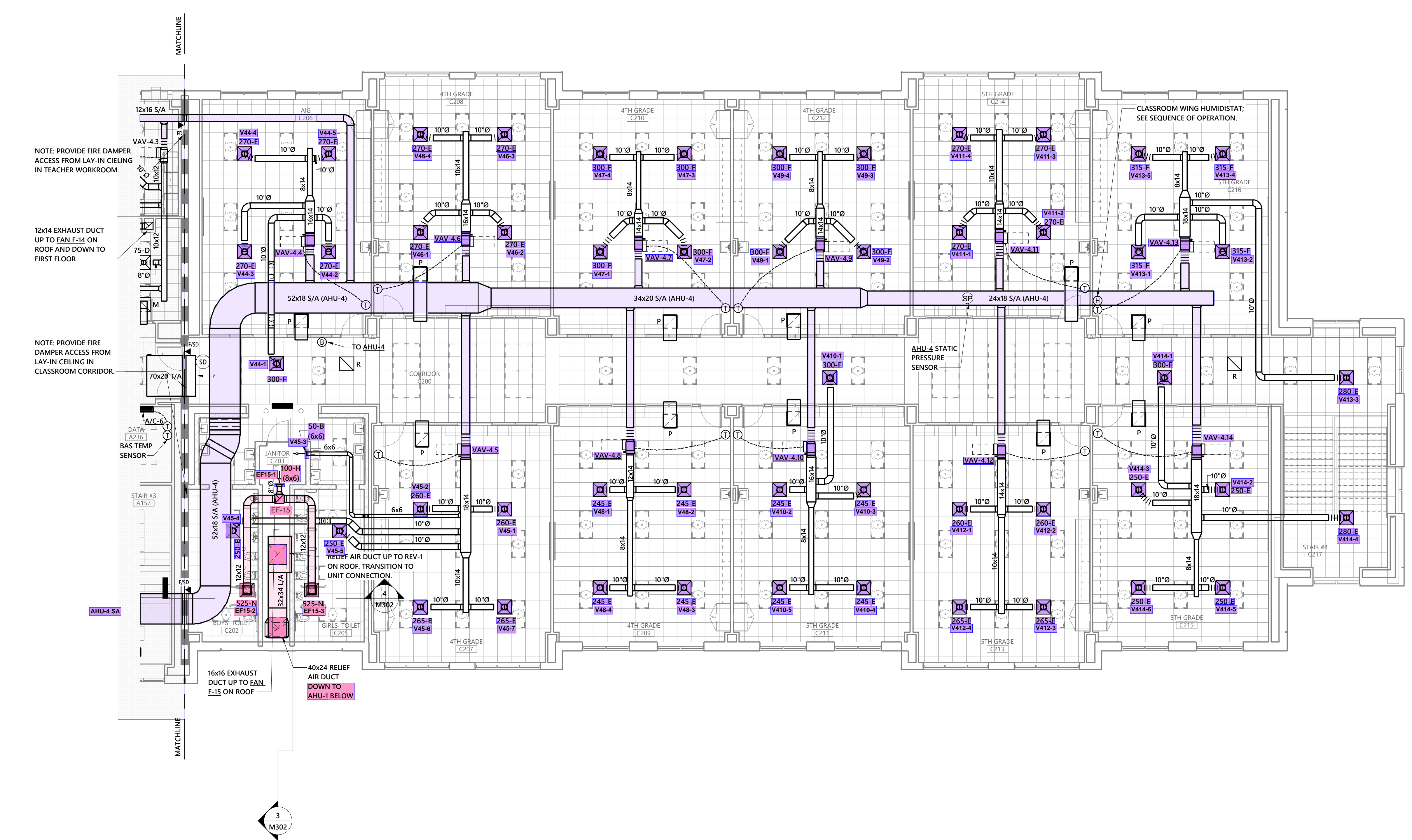
10/21/2024

REVISIONS:

SHEET TITLE:  
**UPPER LEVEL MECHANICAL PLAN-  
BUILDING C**

ARCHITECTURAL:

**M124**



NOTE: PROVIDE FIRE DAMPER ACCESS FROM LAY-IN CEILING IN TEACHER WORKROOM.

12x14 EXHAUST DUCT UP TO FAN E-34 ON ROOF AND DOWN TO FIRST FLOOR.

NOTE: PROVIDE FIRE DAMPER ACCESS FROM LAY-IN CEILING IN CLASSROOM CORRIDOR.

**1 UPPER LEVEL MECHANICAL PLAN- BUILDING C**  
1/8" = 1'-0"

| WALL LEGEND |  |
|-------------|--|
|             | 1 HOUR FIRE BARRIER                    |
|             | 2 HOUR FIRE BARRIER                    |
|             | 2 HOUR FIREWALL (BLDG SEPARATION WALL) |

