

**LEGEND**

**MECHANICAL**

|        |                           |
|--------|---------------------------|
| CD     | CONDENSATE DRAIN PIPING   |
| RL     | REFRIGERANT LIQUID        |
| RS     | REFRIGERANT SUCTION       |
| RDG    | REFRIGERANT DISCHARGE GAS |
| XXXXXX | PIPING TO BE DEMOLISHED   |

**MECHANICAL ABBREVIATIONS:**

|    |             |
|----|-------------|
| EA | EXHAUST AIR |
| FA | RELIEF AIR  |
| OA | OUTSIDE AIR |
| RA | RETURN AIR  |
| SA | SUPPLY AIR  |

|          |  |
|----------|--|
| [Symbol] | SLOT DIFFUSER  |
| [Symbol] | SPIN-IN WITH DAMPER IN NECK  |
| [Symbol] | AIR FLOW DIRECTION   |
| [Symbol] | RETURN GRILLE/DUCT   |
| [Symbol] | SUPPLY DIFFUSER/DUCT. ARROWS INDICATE THROW DIRECTION, NO ARROWS = 4-WAY |
| [Symbol] | EXHAUST GRILLE/DUCT  |

|          |     |                         |
|----------|-----|-------------------------|
| [Symbol] | MVD | MANUAL VOLUME DAMPER    |
| [Symbol] | BDD | BACKDRAFT DAMPER        |
| [Symbol] | FD  | FIRE DAMPER             |
| [Symbol] | FSD | FIRE/SMOKE DAMPER       |
| [Symbol] | AVD | AUTOMATIC VOLUME DAMPER |
| [Symbol] | SD  | SMOKE DAMPER            |
| [Symbol] | M   | MOTORIZED DAMPER        |

|          |   |                                 |
|----------|---|---------------------------------|
| [Symbol] | T | THERMOSTAT                      |
| [Symbol] | S | TEMPERATURE SENSOR              |
| [Symbol] | H | HUMIDISTAT                      |
| [Symbol] | B | BALL VALVE                      |
| [Symbol] | G | GLOBE VALVE                     |
| [Symbol] | C | CHECK VALVE                     |
| [Symbol] | B | BUTTERFLY VALVE                 |
| [Symbol] | B | BALANCING VALVE                 |
| [Symbol] | T | TRIPLE DUTY/STOP-CHECK VALVE    |
| [Symbol] | E | ELECTRICALLY ACTIVATED VALVE    |
| [Symbol] | P | PRESSURE REDUCING VALVE         |
| [Symbol] | P | PRESSURE RELIEF VALVE           |
| [Symbol] | C | COOLING TOWER HAT/BALANCE VALVE |
| [Symbol] | T | TEMPERATURE INDICATOR           |
| [Symbol] | P | PRESSURE INDICATOR              |
| [Symbol] | P | PETE'S PLUG                     |
| [Symbol] | M | MANUAL AIR VENT                 |
| [Symbol] | E | ELBOW DOWN                      |
| [Symbol] | E | ELBOW UP                        |
| [Symbol] | F | FLEXIBLE PIPE CONNECTION        |
| [Symbol] | S | SUCTION DIFFUSER                |
| [Symbol] | S | STRAINER                        |

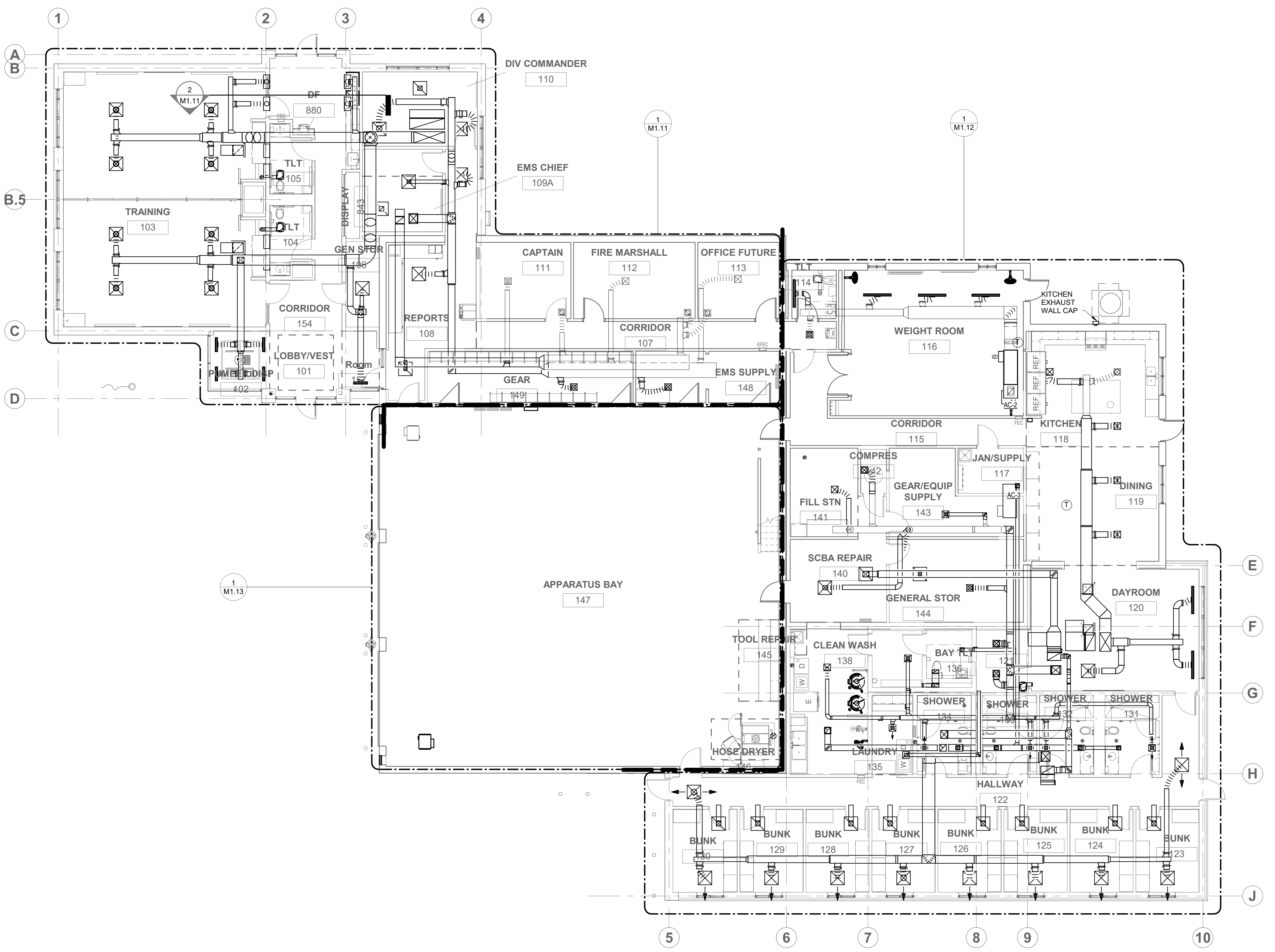
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|----------|-------|----------------------|
| [Symbol] | VAV   | EQUIPMENT TYPE       |
| [Symbol] | 4     | EQUIPMENT ID         |
| [Symbol] | C     | TERMINAL DEVICE ID   |
| [Symbol] | 22x22 | NECK SIZE            |
| [Symbol] | +     | DESIGN AIRFLOW (CFM) |
| [Symbol] | 1     | MECHANICAL NOTE      |
| [Symbol] | ○     | CONNECT TO EXISTING  |
| [Symbol] | ○     | LIMIT OF DEMOLITION  |
| [Symbol] | ~     | CONTINUATION         |

**INSTRUMENTATION**

|          |                                   |
|----------|-----------------------------------|
| A.I.     | ANALOG INPUT                      |
| A.O.     | ANALOG OUTPUT                     |
| D.I.     | DIGITAL INPUT                     |
| D.O.     | DIGITAL OUTPUT                    |
| DPT      | DIFFERENTIAL PRESSURE TRANSMITTER |
| FIC      | FLOW INDICATING CONTROLLER        |
| H        | HIGH                              |
| L        | LOW                               |
| PAL      | PRESSURE ALARM LOW                |
| PDS      | PRESSURE DIFFERENTIAL SWITCH      |
| PI       | PRESSURE INDICATOR                |
| TE       | TEMPERATURE ELEMENT               |
| TI       | TEMPERATURE INDICATOR             |
| TIC      | TEMPERATURE INDICATING CONTROLLER |
| TS       | THERMOSTAT                        |
| T        | TEMPERATURE                       |
| TT       | TRANSMITTER/THERMOSTAT            |
| VFD      | VARIABLE FREQUENCY DRIVE          |
| YA       | EVENT (FAULT) ALARM               |
| YC       | EVENT (FAN/PUMP) CONTROLLER       |
| YI       | EVENT STATUS INDICATION           |
| YZ       | EVENT ACTUATOR                    |
| ZS       | POSITION SWITCH                   |
| [Symbol] | INTERLOCK WIRING OR DEVICE        |

**GENERAL ANNOTATION ABBREVIATIONS**

|     |                                  |
|-----|----------------------------------|
| MEP | MECHANICAL, ELECTRICAL, PLUMBING |
| AFF | ABOVE FINISHED FLOOR             |
| AFG | ABOVE FINISHED GRADE             |



**GENERAL NOTES**

1. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT GENERAL SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO REVIEW GENERAL CONSTRUCTION DRAWINGS, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICT OR DISCREPANCIES PRIOR TO CONSTRUCTION.

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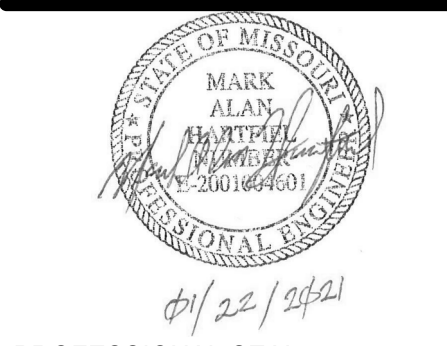
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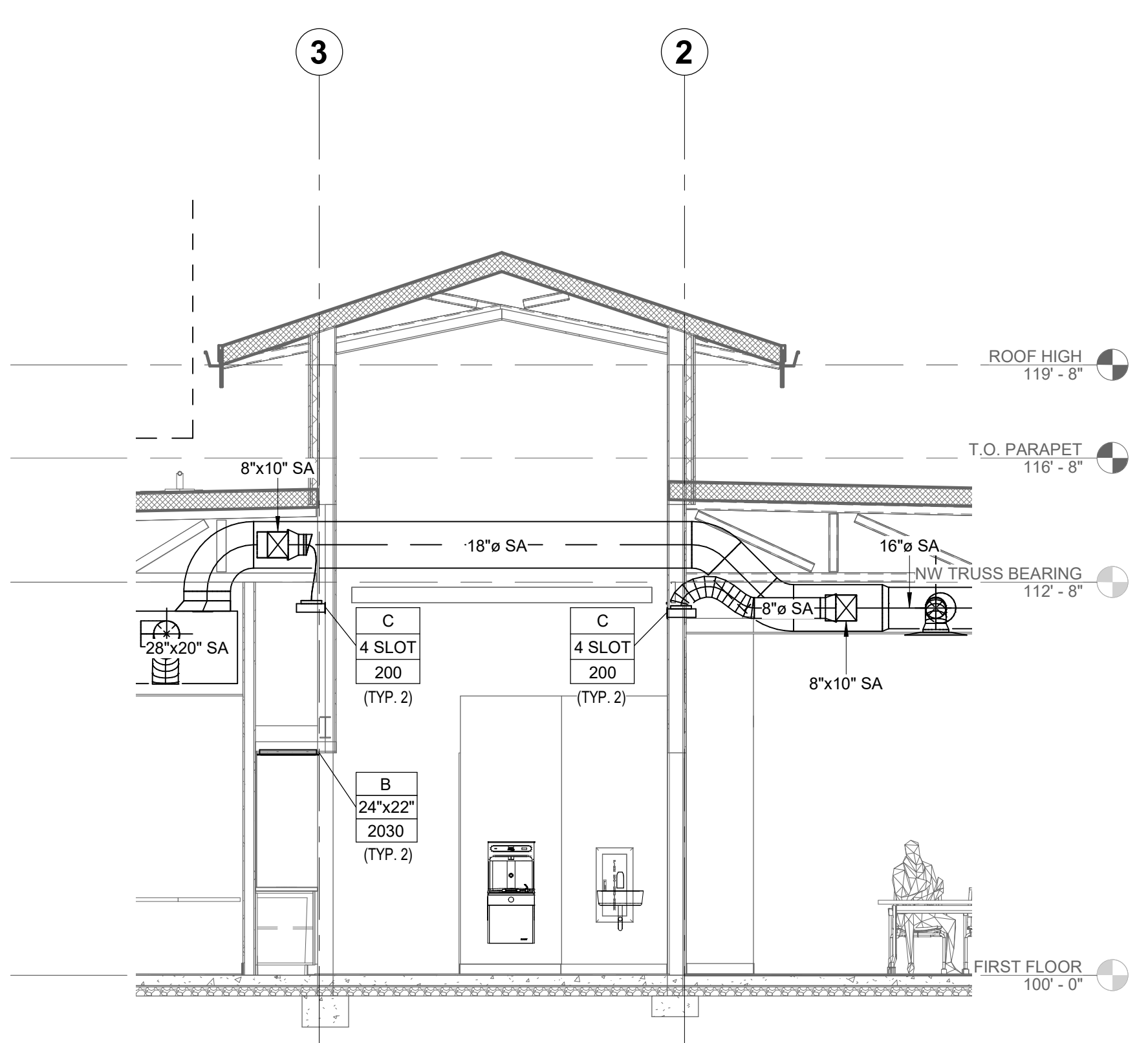
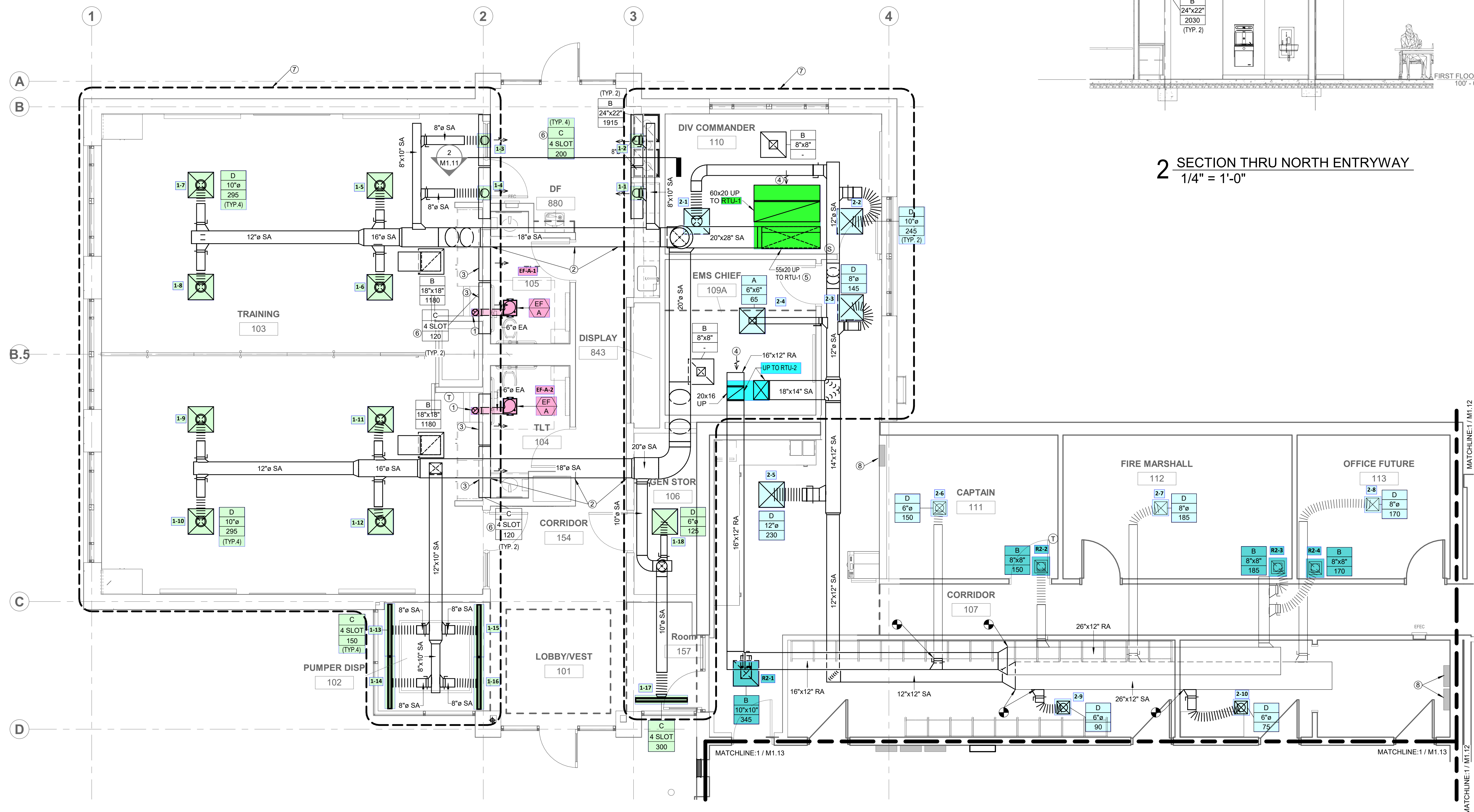


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**1 MECHANICAL OVERALL FLOOR PLAN**  
 1/8" = 1'-0"

MECHANICAL OVERALL PLAN

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2 SECTION THRU NORTH ENTRYWAY  
1/4" = 1'-0"

1 TRAINING & OFFICES  
MECHANICAL FLOOR PLAN  
1/4" = 1'-0"

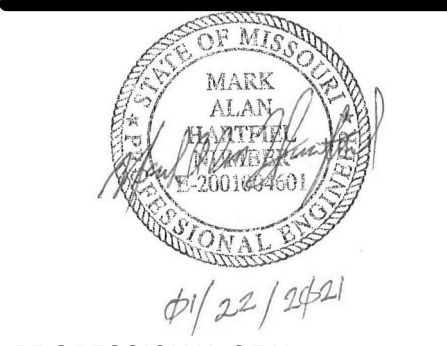
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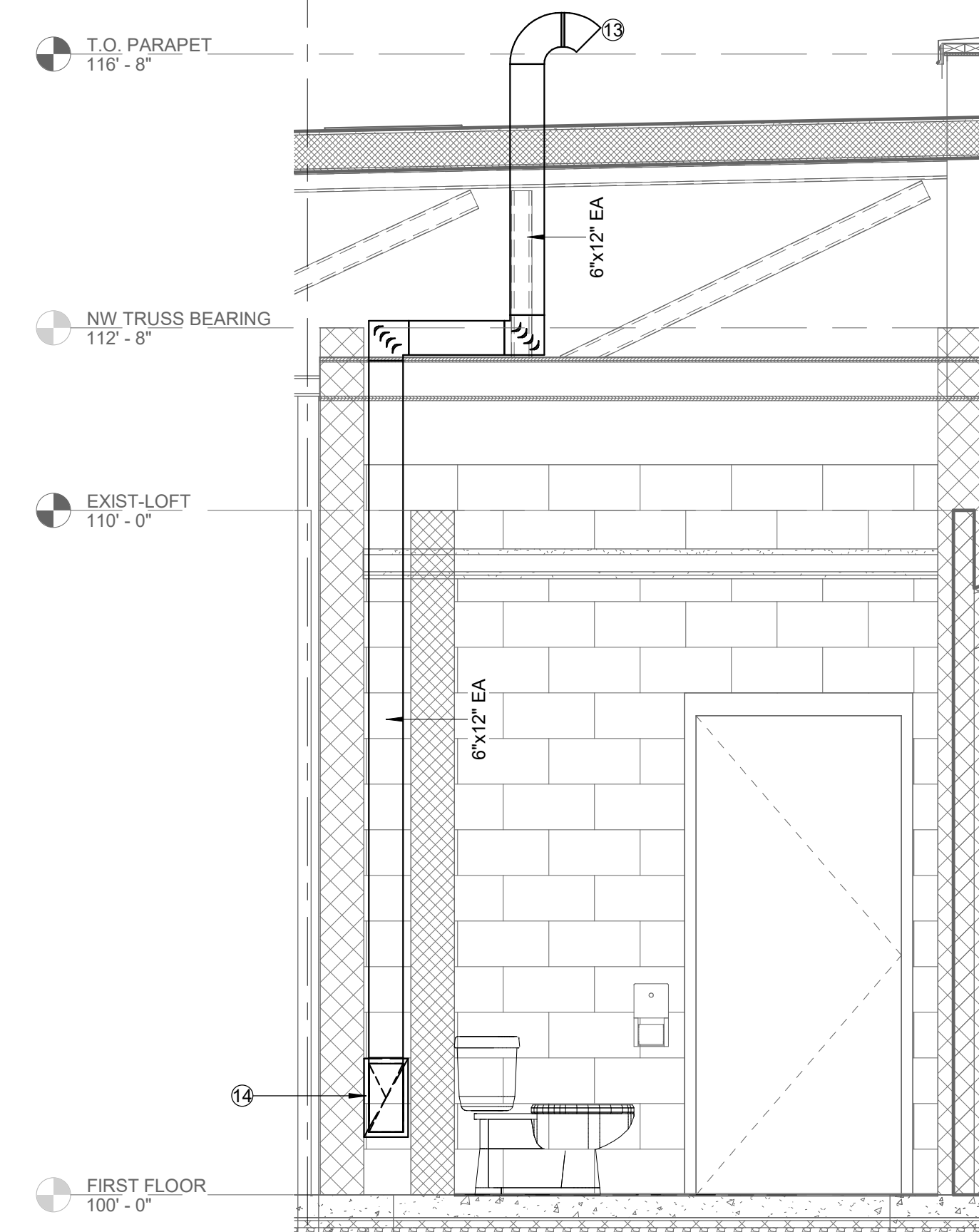
**PLAN NOTES:**

- DUCT THROUGH ADJACENT SOFFIT UP TO ROOF CAP ON CURB WITH OUTLET 24" ABOVE FINISHED ROOF. PAINT ROOF CAP TO MATCH ADJACENT PER ARCHITECT.
- SPIRAL OR EQUIVALENT FLAT OVAL EXPOSED DUCT. SUPPORT WITH CHANNEL FROM WALL TO WALL WITH NO HANGERS FROM THE CEILING WHERE EXPOSED. PAINT EXPOSED DUCT PER ARCHITECT.
- TRANSFER ABOVE THE CEILING.
- OPEN TO PLENUM. COVER OPENING WITH BIRD SCREEN.
- ADJUST HEIGHT OF CURB AS NEEDED TO OFFSET TO OPENING IN TRUSSES.
- LOCATE ABOVE SUSPENDED CEILING. COORDINATE ELEVATION WITH ARCHITECT.
- ALL ITEMS WITHIN PLENUM TO BE PLENUM RATED.
- ELECTRICAL PANELBOARD. DO NOT ROUTE DUCTWORK OVER DEDICATED PANEL SPACE.

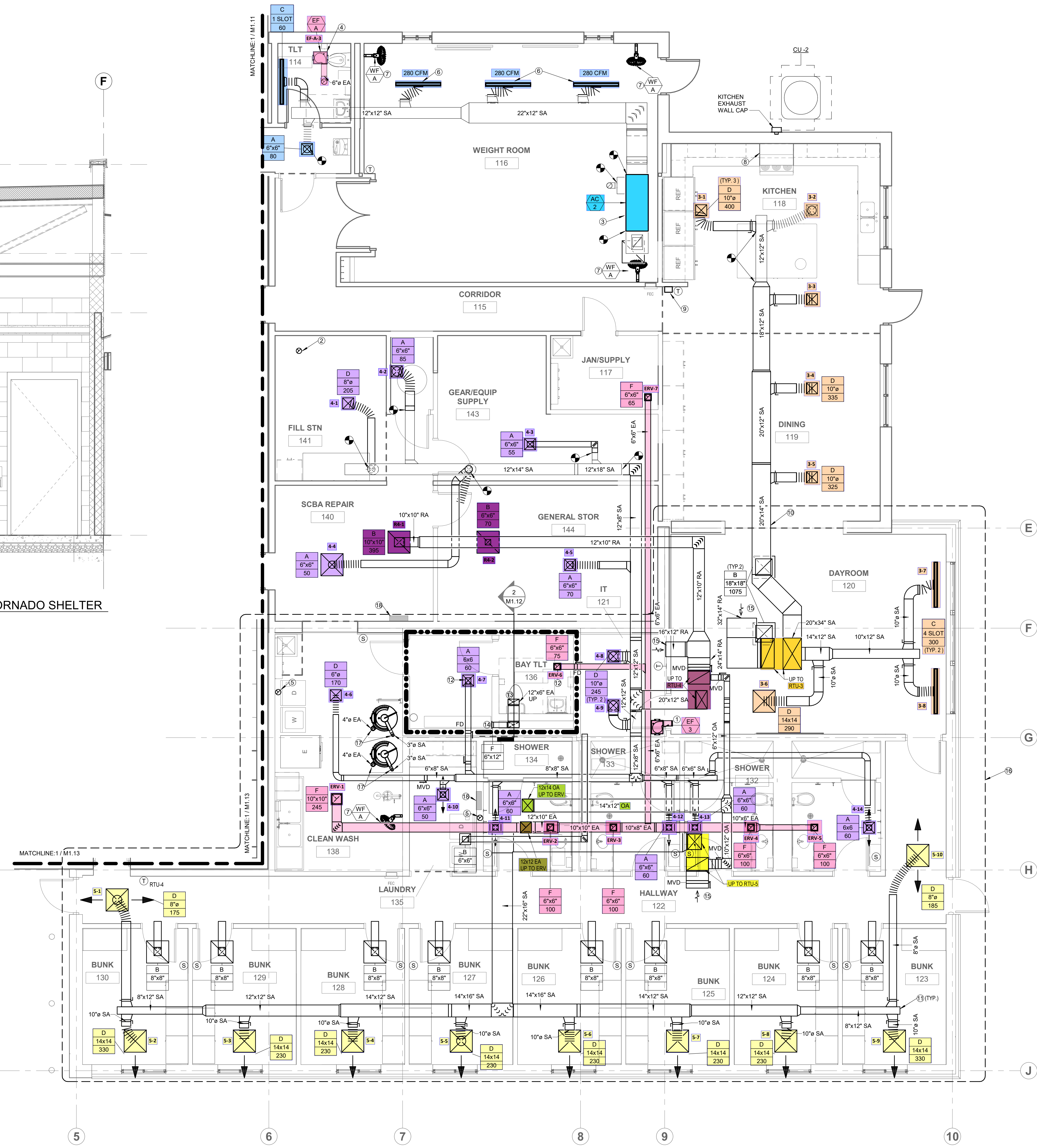
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2 SECTION THRU TORNADO SHELTER  
1/2" = 1'-0"



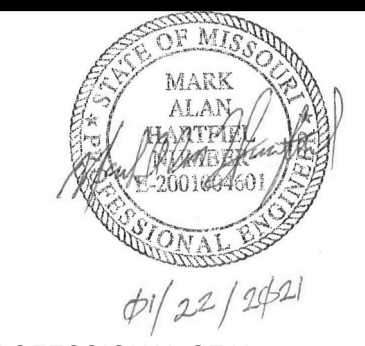
1 LIVING QUARTERS  
MECHANICAL FLOOR PLAN  
1/4" = 1'-0"

**GENERAL NOTES**

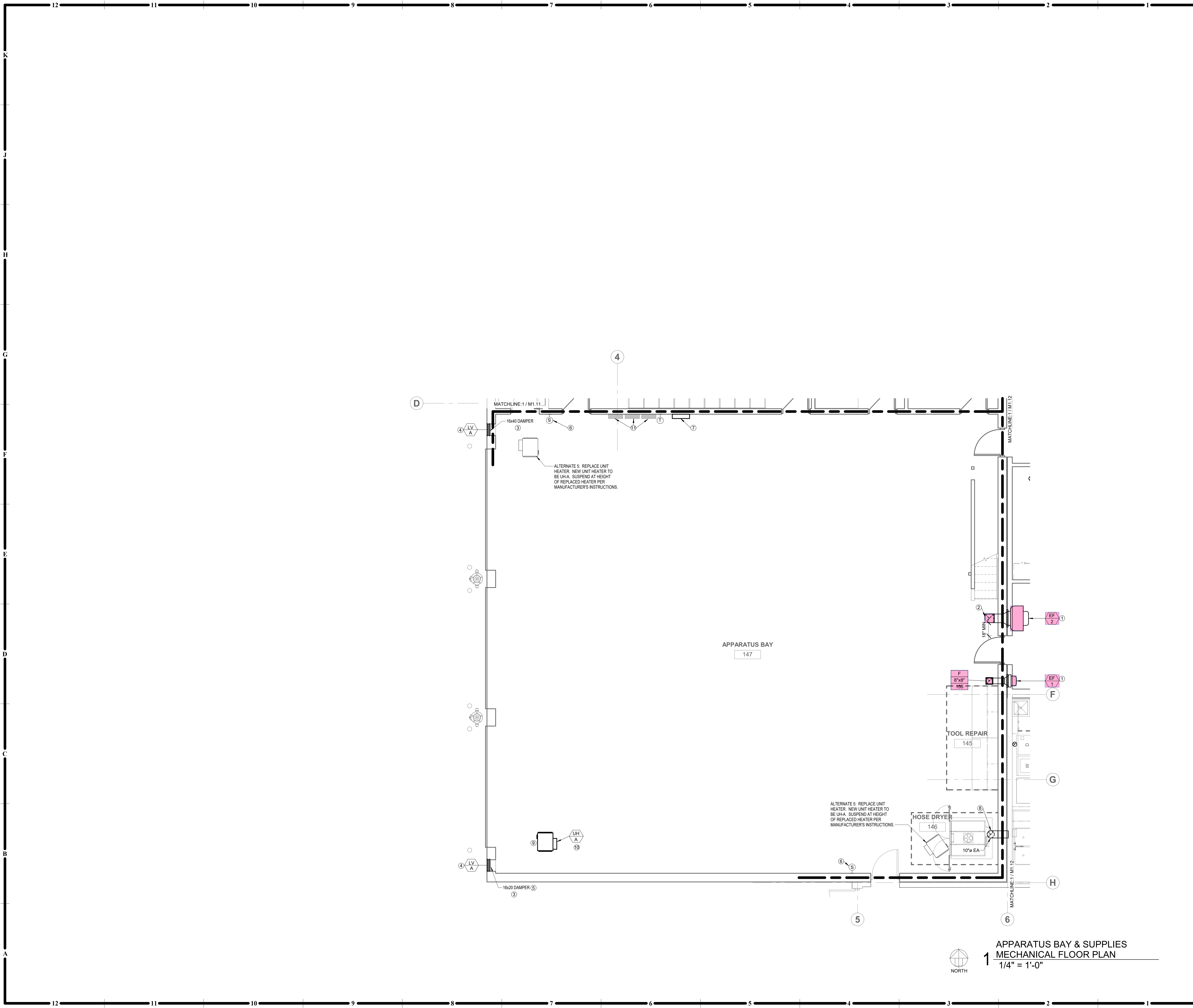
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**PLAN NOTES:**

1. FAN TO DISCHARGE TO ADJACENT PLENUM COVER END OF DUCT WITH SCREEN.
2. PROVIDE AND INSTALL SCBA COMPRESSOR AIR INTAKE PER COMPRESSOR MANUFACTURER, 2" PVC. SEE DETAIL 9M500. PAINT TO MATCH ADJACENT PER ARCHITECT.
3. REPLACE EXISTING SPLIT SYSTEM IN THE LOFT.
4. REPLACE EXISTING FAN DUCT TO NEW ROOF CAP.
5. PROVIDE AND INSTALL DRYER BOX RECESSED IN WALL BY "DRYERBOX" OR EQUAL WITH FLEXIBLE CONNECTION TO DRYER AS SPECIFIED. EXTEND DRYER VENT THROUGH ROOF. SEE DETAIL 1M500.
6. EXISTING DIFFUSER TO BE RELOCATED.
7. PROVIDE AND INSTALL WALL FAN CENTERED AT 74" ABOVE FINISHED FLOOR PER MANUFACTURER'S INSTRUCTIONS. COORDINATE HEIGHT AND LOCATION WITH ARCHITECT.
8. PROVIDE AND INSTALL KITCHEN HOOD, GREENHECK GRIS-2-36-R-5-N, NFPA 101 COMPLIANT, WALL MOUNTED, 36" LONG WITH INTEGRAL 500CFM, REAR DISCHARGE FAN AND GAS RANGE DISCONNECT. MOUNT HOOD 36" ABOVE COOK TOP. INCLUDE ADA CONTROL OPTION AND MOUNT AT AN ACCESSIBLE HEIGHT. COORDINATE CONTROL LOCATION WITH ARCHITECT. CONNECT GAS RANGE DISCONNECT PER MANUFACTURER.
9. MANUAL SPLIT STATION FOR RANGE HOOD FIRE SUPPRESSION. PROVIDE WITH HOOD. INSTALLATION AND CONNECTION BY ELECTRICAL.
10. ROUTE DUCT BELOW ADDITION ROOF AND OVER EXISTING WALL IN OVERBUILD.
11. COORDINATE LOCATION OF DUCT WITH CEILING FAN SUPPORT.
12. TORNADO SHELTER. CONNECTION TO DIFFUSERS AND GRILLS TO BE MADE WITH ELBOW A MINIMUM OF 30 LONG. CONSTRUCTED OF A MINIMUM 3/16" THICK STEEL PLATE. ANCHOR ELBOWS AS REQUIRED TO RESIST PENETRATION. COORDINATE WITH STRUCTURAL.
13. RUN 6X12 FROM ROOF PENETRATION ABOVE TORNADO SHELTER LID. TURN DOWN INTO SHELTER WITH ELBOW CONSTRUCTED OF A MINIMUM 3/16" THICK STEEL PLATE FOR A MINIMUM OF 18" DOWN AND ACROSS LID. ANCHOR ELBOWS AS REQUIRED TO RESIST PENETRATION. COORDINATE WITH STRUCTURAL. PROVIDE AND INSTALL A FIRE DAMPER AT THE PENETRATION OF THE TORNADO SHELTER LID.
14. REGISTER FOR TORNATED SHELTER TO BE MOUNTED WITH BOTTOM OF GRILLE 12" ABOVE FINISHED FLOOR. REGISTER TO BE NORMALLY CLOSED.
15. OPEN TO PLENUM. COVER OPENING WITH BIRD SCREEN.
16. ALL ITEMS WITHIN PLENUM TO BE PLENUM RATED.
17. INSTALL WATER HEATER FLUE AND COMBUSTION AIR INTAKE THROUGH THE ROOF AND TERMINATE PER MANUFACTURER.
18. ELECTRICAL PANELBOARD. DO NOT ROUTE DUCTWORK OVER DEDICATED PANEL SPACE.



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**1 APPARATUS BAY & SUPPLIES**  
**MECHANICAL FLOOR PLAN**  
 1/4" = 1'-0"

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**PLAN NOTES:**

- WALL MOUNTED EXHAUST FAN. SEE DETAIL 6M500. INSTALL A MINIMUM OF 2" ABOVE ADJACENT ROOF. REUSE EXISTING PENETRATION WHERE APPLICABLE.
- DUCT DOWN TO 7'-0" ABOVE FINISHED FLOOR. COVER END WITH BIRD SCREEN.
- PROVIDE INTERLOCK TO OPEN DAMPER WHEN CONTROL INDICATES TO ENERGIZE EF-2.
- LOCATE LOUVER PER ARCHITECTURAL.
- HALF THE LOUVER TO REMAIN OPEN CONTINUOUSLY.
- CARBON MONOXIDE AND NITROUS OXIDE SENSOR, MACUROD CM-6 AND TS-6-ND OR EQUAL TIED TO EF-2 CONTROL.
- GARAGE FAN CONTROL, MACUROD DVP-120 OR EQUAL, INTERLOCKED WITH FAN EF-2. IN ADDITION, PROVIDE AND INSTALL COOLING THERMOSTAT WITH MANUAL ON/OFF SWITCH WIRED THROUGH ARMSTRONG RELAY PANEL TO ENERGIZE EF-2 FOR VENTILATION WHEN MANUALLY TURNED ON AND SPACE TEMPERATURE ABOVE SETPOINT AND A TIMER SWITCH TO ENERGIZE THE FAN FOR A PERIOD OF 15 MINUTES TO TWO HOURS.
- PROVIDE AND INSTALL DUCT VENTING HOSE DRYER PER MANUFACTURER. INCLUDE TRANSITION FROM CABINET TO 10" ALUMINUM DUCT. INCLUDE BACKDRAFT DAMPER AT CEILING LEVEL. DUCT THROUGH ROOF TO GOOSENECK. SEE DETAIL 11 M500.
- EXISTING FLUE MAY BE REUSED. VERIFY COMPLIANCE WITH UNIT HEATER MANUFACTURER'S INSTRUCTIONS.
- NEW UNIT HEATER SUSPEND AT HEIGHT OF OTHER UNIT HEATERS PER MANUFACTURER'S INSTRUCTIONS.
- ELECTRICAL PANELBOARD. DO NOT ROUTE DUCTWORK OVER DEDICATED PANEL SPACE.



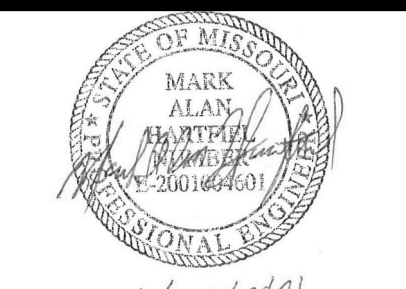
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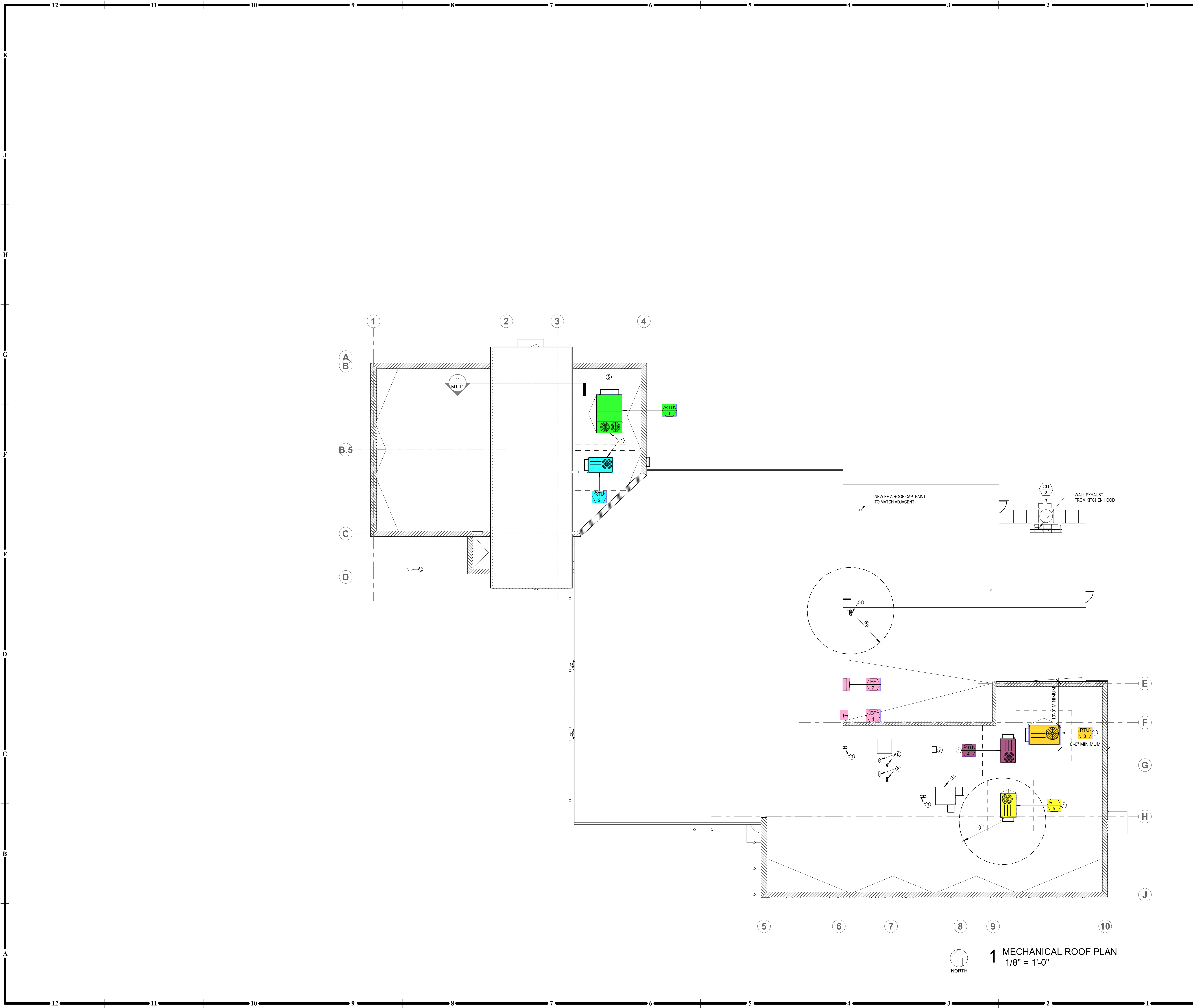
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**1 MECHANICAL ROOF PLAN**  
1/8" = 1'-0"

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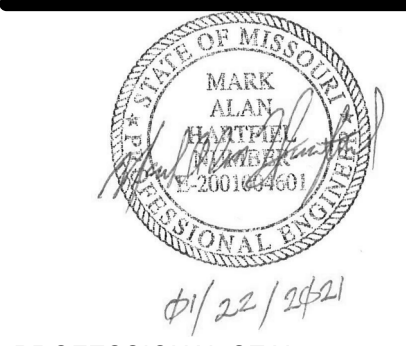
**PLAN NOTES:**

1. MOUNT ROOFTOP UNIT ON CURB WITH BOTTOM OF OUTSIDE AIR INTAKE A MINIMUM OF 24" ABOVE FINISHED ROOF. SEE DETAIL 10M500. MAINTAIN ALL REQUIRED CLEARANCES. ROUTE CONDENSATE TO GUTTER.
2. CURB MOUNT ERV PER DETAIL 10M500 WITH OUTLET AND INLET A MINIMUM OF 24" ABOVE FINISHED ROOF.
3. DRYER VENT. SEE DETAIL 11M500.
4. FILLING STATION AIR INTAKE. SEE 9M500. ORIENT AWAY FROM EXHAUST.
5. MAINTAIN 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKE AND ALL EXHAUST AND VENTS.
6. REFER TO A1.12 FOR FALL PROTECTION EXTENTS.
7. TORNADO SHELTER VENT. SEE DETAIL 11M500.
8. WATER HEATER FLUE AND COMBUSTION INTAKE THROUGH ROOF. INSTALL AND TERMINATE PER MANUFACTURER.

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