

COTTONWOOD ELEMENTARY MECHANICAL UPGRADE

55 EAST 200 SOUTH

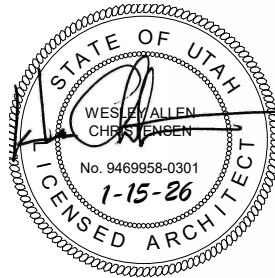
ORANGEVILLE, UTAH 84537

PROJECT CONTACTS

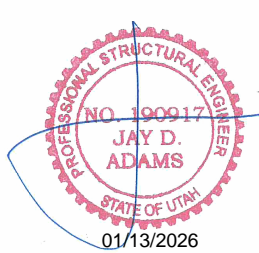
**OWNER**  
EMERY COUNTY SCHOOL DISTRICT  
120 NORTH MAIN STREET  
HUNTINGTON, UTAH 84528  
(435) 687-9846



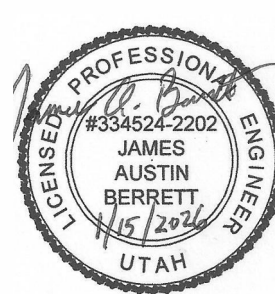
**ARCHITECTURAL**  
KMA ARCHITECTS, INC.  
170 NORTH MAIN STREET  
SPANISH FORK, UTAH 84660  
(801) 377-5062



**STRUCTURAL**  
DYNAMIC STRUCTURES  
744 SOUTH 400 EAST,  
OREM, UTAH 84097  
(801) 356-1140



**MECHANICAL**  
OLSEN & PETERSON ENGINEERING  
14 EAST 2700 SOUTH  
SALT LAKE CITY, UTAH 84115  
(801) 486-4646



**ELECTRICAL**  
RESOLUT  
181 EAST 5600 SOUTH, SUITE 200  
MURRAY, UT 84107  
(801) 530-3148



GRAPHIC SYMBOLS

	ENGINEERED FILL		PLYWOOD		WALLTYPE TAG		DETAIL TAG
	EARTH		HARDWOOD		DOOR NUMBER		ELEVATION MARK
	CONCRETE		RIGID INSULATION		WINDOW TYPE		SECTION MARK
	ASPHALT		BATT INSULATION		CEILING HEIGHT		
	BRICK VENEER		BLOCKING		SHEET NOTE		
	STONE VENEER		GYPSUM BOARD		BUILDING ELEVATION MARK		
	WOOD STUDS		PROPERTY LINE		ROOM NUMBER		

PROJECT DATA

TOTAL AREA: 36,466 SQ. FT.

PROJECT SCOPE

COTTONWOOD ELEMENTARY SCHOOL MECHANICAL UPGRADE CONSISTS OF INSTALLING NEW GAS FIRE/DX ROOF TOP UNITS ALONG WITH THE ASSOCIATED DUCT WORK, 1 NEW HEAT PUMP INDOOR UNIT, NEW AIR COOLED OUTDOOR UNIT, REPLACING A NEW MAKE-UP AIR UNIT, CABINET UNIT HEATER, AND REPLACING TWO EXISTING EXHAUST FANS. ELECTRICAL SYSTEMS WILL BE MODIFIED ACCORDINGLY TO MEET THE NEW MECHANICAL NEEDS. ROOF PATCHING IS REQUIRED FOR NEW PENETRATIONS AND STRUCTURAL BRACING AS NEEDED FOR THE NEW ROOF TOP UNITS. ARCHITECTURAL ITEMS WILL BE TO ADDRESS THE AFFECTED AREAS DUE TO CONSTRUCTION.

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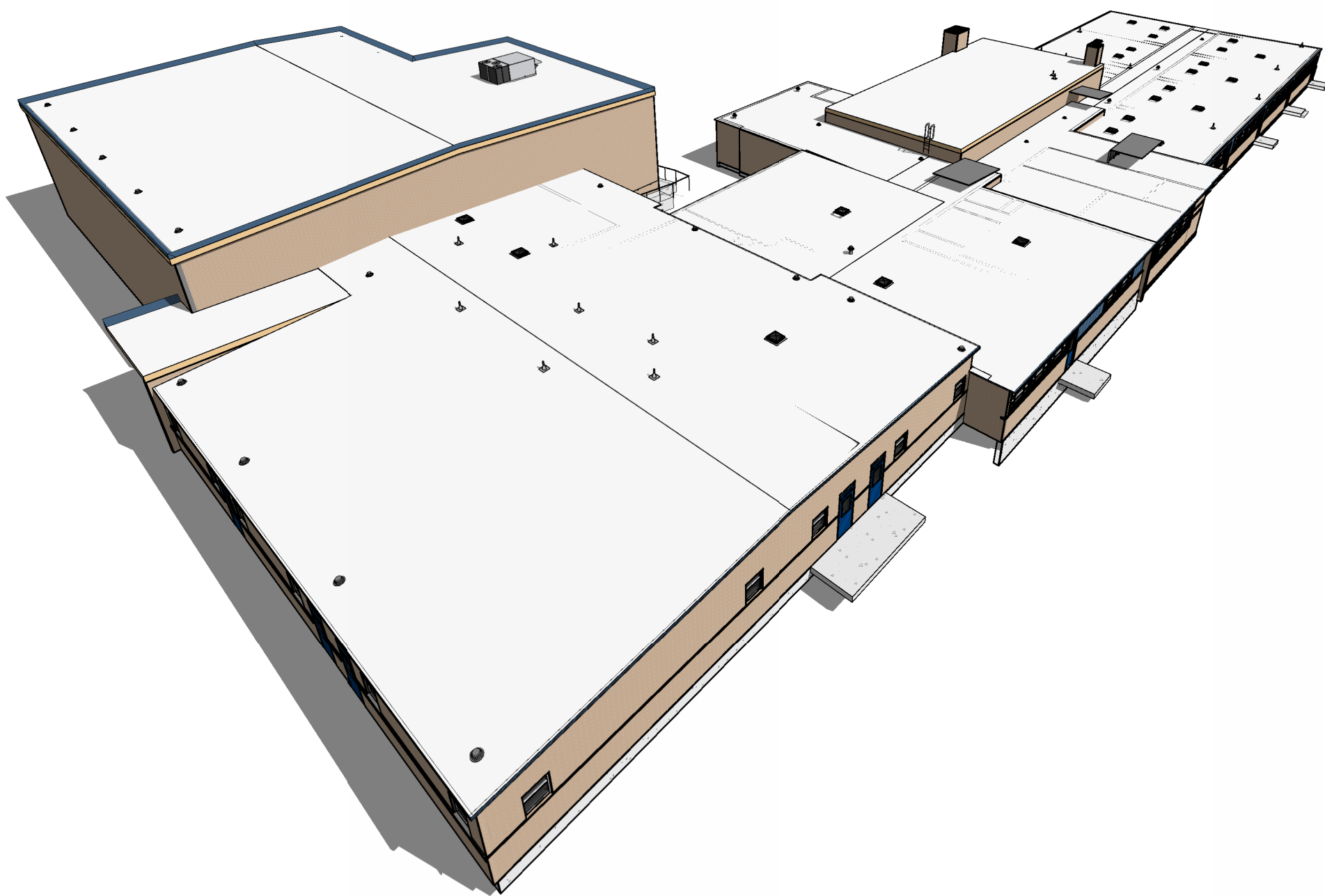
MECHANICAL

M0.1A - MECHANICAL DEMOLITION PLAN AREA 'A'  
M0.1B - MECHANICAL DEMOLITION PLAN AREA 'B'  
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EG003 - ELECTRICAL ONE-LINE DIAGRAM  
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EG005 - ELECTRICAL DIAGRAMS  
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EP115 - PANEL SCHEDULE  
ES112 - MAIN FLOOR SYSTEM PLAN AREA 'A'  
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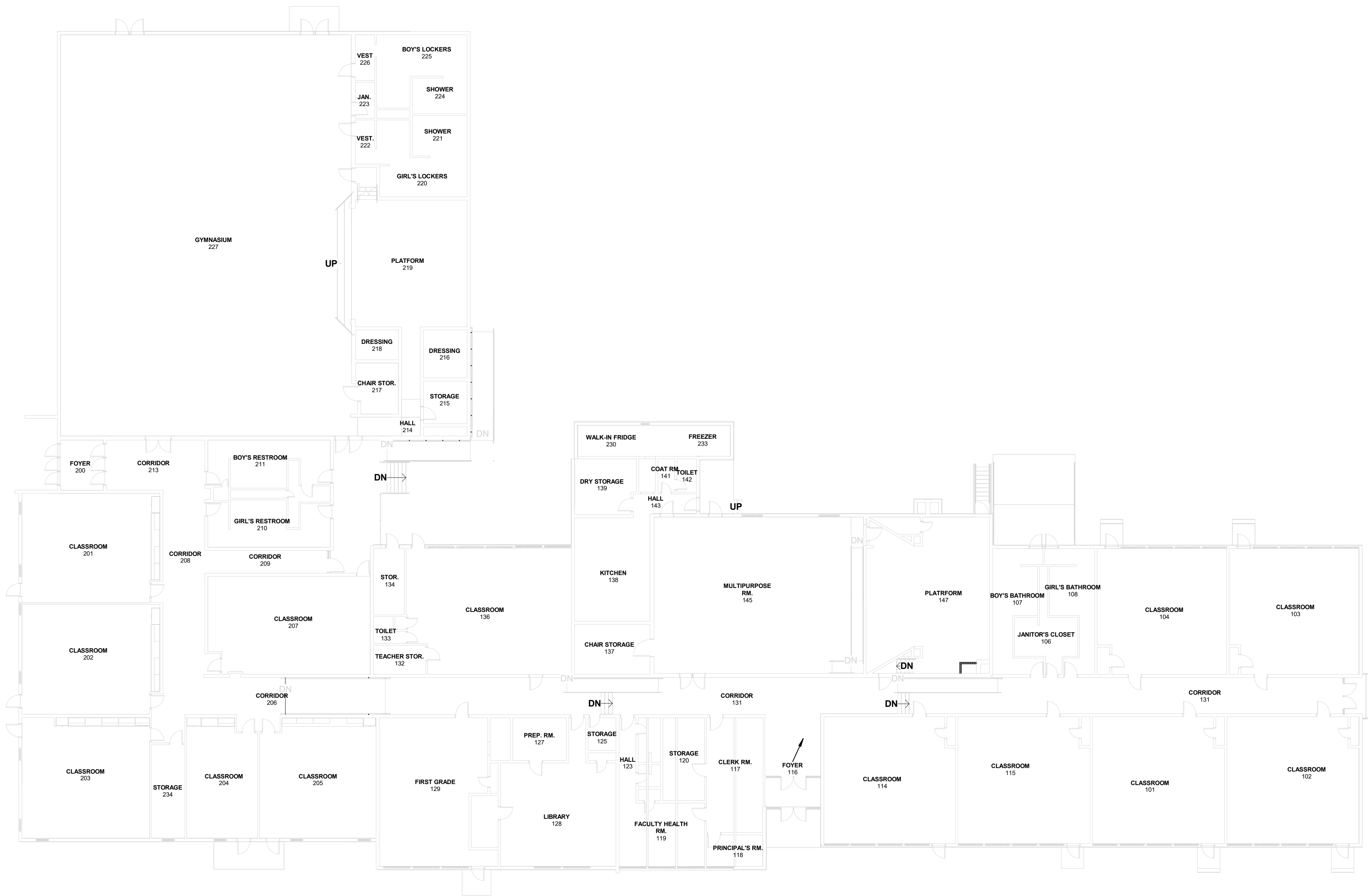
RENDERING



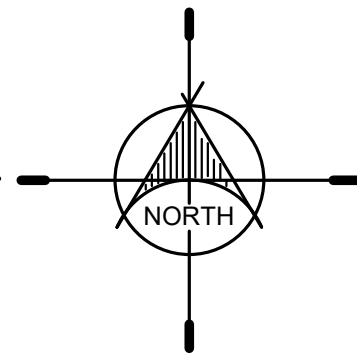
VICINITY MAP







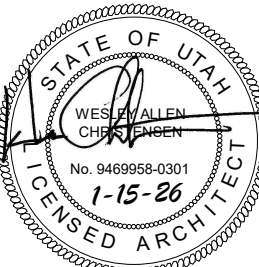
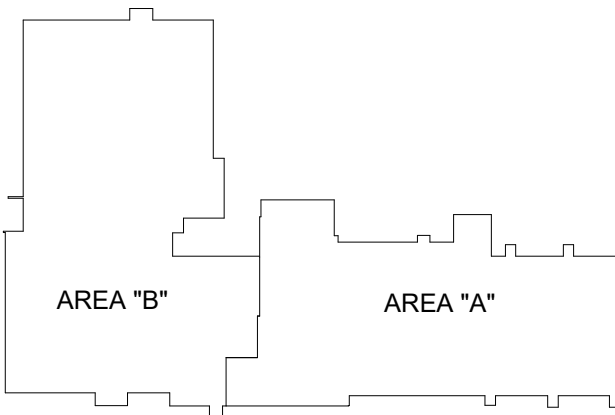
OVERALL MAIN FLOOR PLAN  
1/16" = 1'-0"



#### GENERAL NOTES

- A - COORDINATE WITH MECHANICAL PLANS FOR ADDITIONAL DEMOTION OF MECHANICAL SYSTEMS.
- B - ADDITIONAL CEILINGS MAY NEED TO BE DEMOLISHED THAT MAY NOT BE NOTED. TO PROVIDE ADDITIONAL ACCESS FOR THE MECHANICAL SYSTEM AND CONTROLS. CONTRACTOR IS TO PLAN ON WORKING ABOVE AND AROUND THE CEILINGS AND TO BE CAREFUL TO PROTECT THE CEILING TILES. THE GRIDS, EXISTING LIGHTING, FIRE ALARM, AND ANY GYPSUM BOARD MATERIAL FROM ANY DAMAGE. THE CONTRACTOR SHALL REPLACE ANY DAMAGED MATERIALS.

#### KEY PLAN

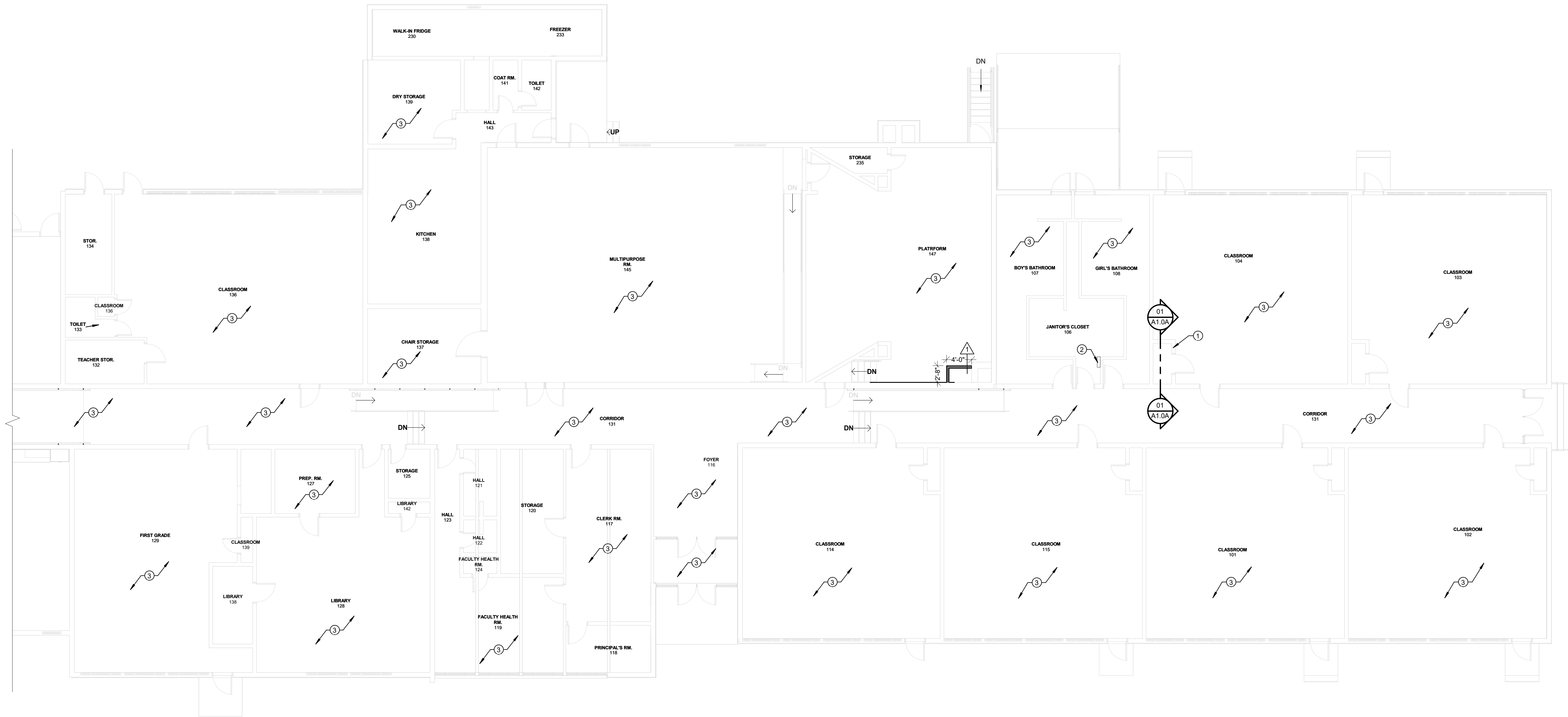


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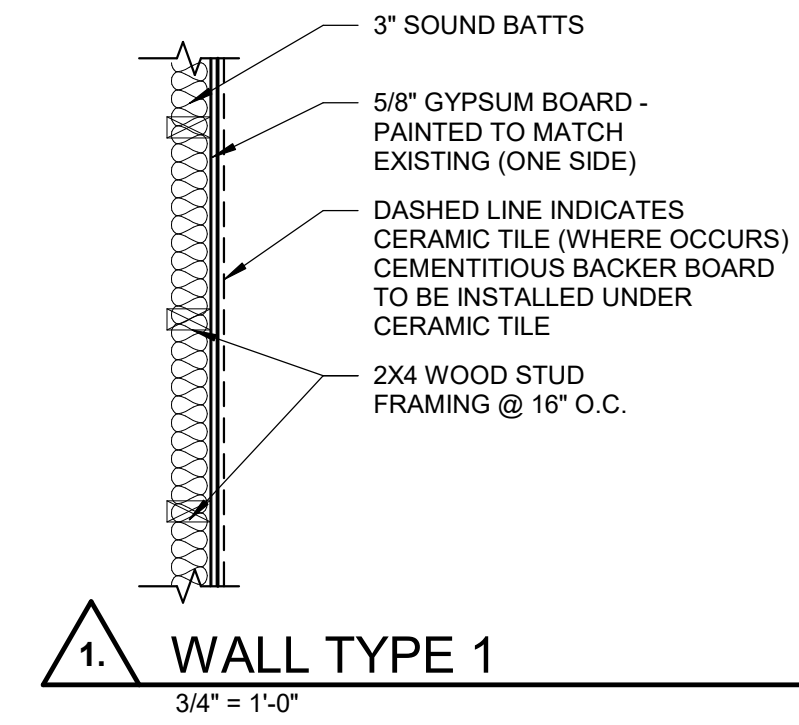
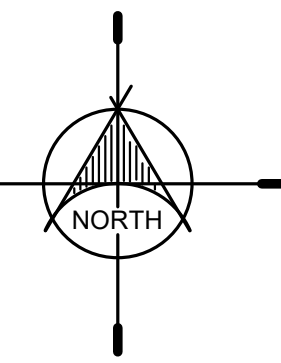
DRAWN BY: KMA  
CHECKED BY: WC  
DATE: JAN 2026  
PROJECT #: 176525

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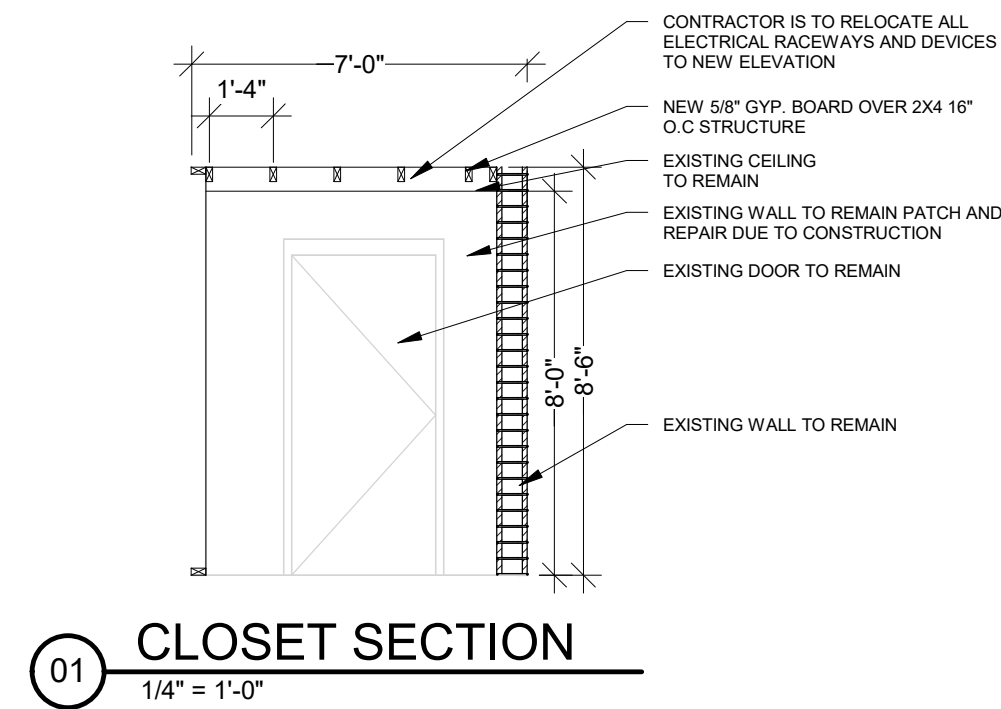
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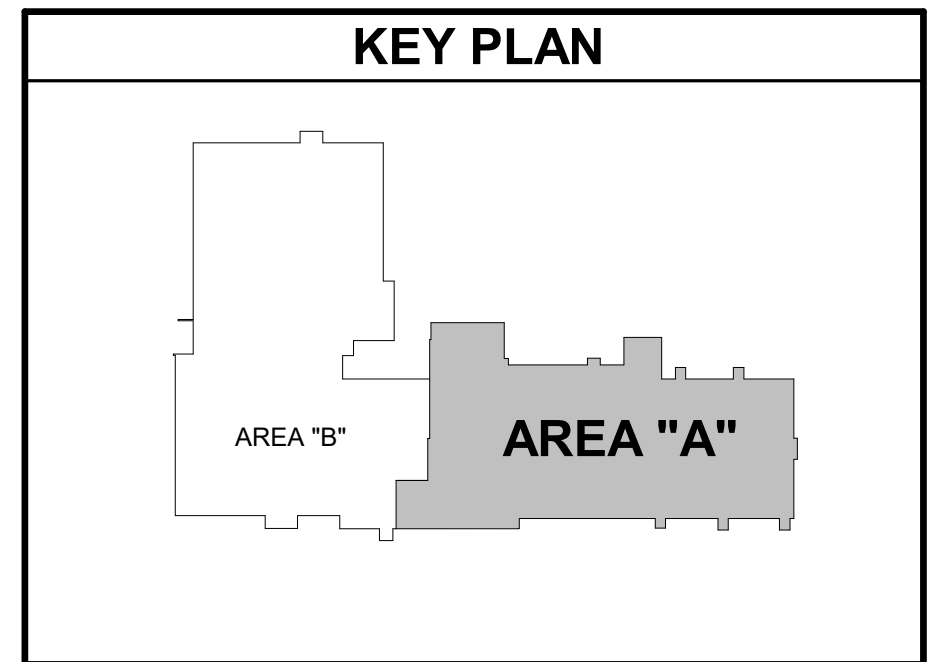
MAIN FLOOR PLAN AREA "A"  
1/8" = 1'-0"



- ### SHEET NOTES
- CLOSET WALLS ARE TO BE CUT DOWN TO A 8'-6" AFF. ELEVATION TO PROVIDE ACCESS FOR THE INSTALLATION OF THE NEW MECHANICAL UNIT.
  - PROPOSED NEW LOCATION OF THE ATC PANEL. COORDINATE IN FIELD WITH EXISTING CONDITIONS. PATCH AND REPAIR ALL EXISTING CONDITIONS DUE TO CONSTRUCTION.
  - EXISTING CONSTRUCTION TO REMAIN. CONTRACTOR TO PATCH, REPAIR, AND CLEAN AS REQUIRED DUE TO DEMOLITION AND NEW CONSTRUCTION.



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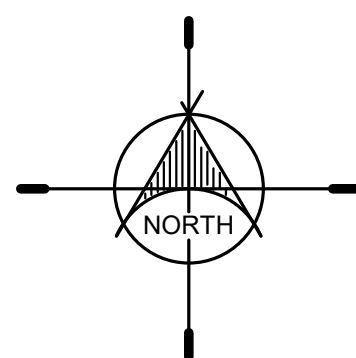
PROJECT TITLE  
EMERY SCHOOL DISTRICT  
**COTTONWOOD ELEMENTARY SCHOOL**  
155 EAST 200 SOUTH  
ORANGEVILLE, UTAH  
MECHANICAL UPGRADE

DRAWN BY: KMA  
CHECKED BY: WC  
DATE: JAN 2026  
PROJECT #: 176525

A1.0A



MAIN FLOOR PLAN AREA "B"  
1/8" = 1'-0"



## SHEET NOTES

- PROPOSED NEW LOCATION OF THE ATC PANEL. COORDINATE IN FIELD WITH EXISTING CONDITIONS. PATCH AND REPAIR ALL EXISTING CONDITIONS DUE TO CONSTRUCTION.
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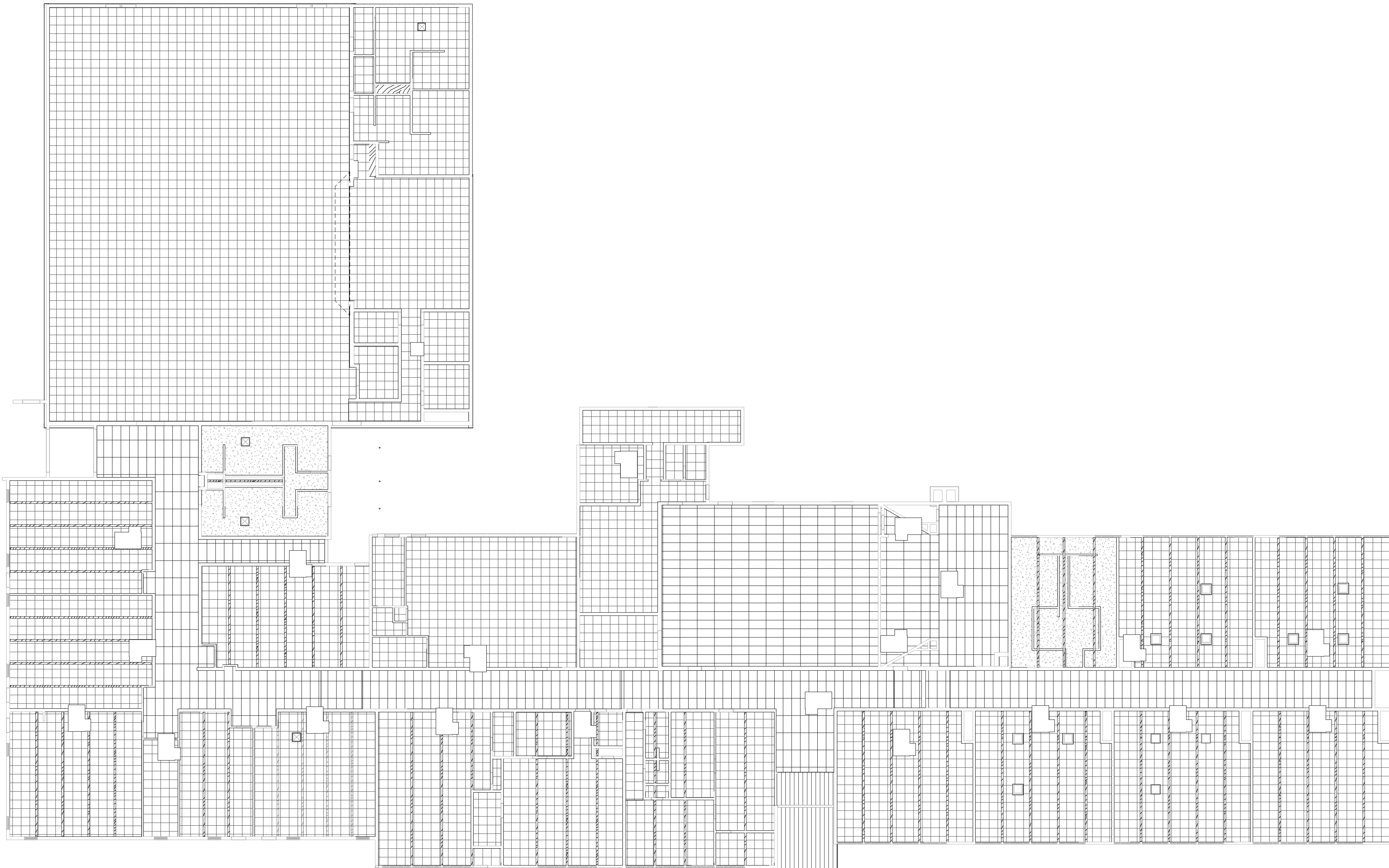
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A - COORDINATE WITH MECHANICAL PLANS FOR ADDITIONAL DEMOTION OF MECHANICAL SYSTEMS

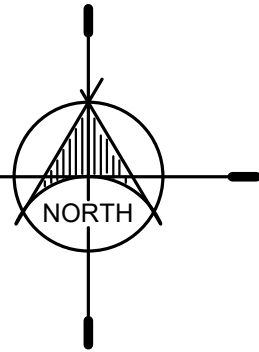
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## KEY PLAN





OVERALL MAIN FLOOR REFLECTED  
1/16" = 1'-0"



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EMERY SCHOOL DISTRICT  
**COTTONWOOD ELEMENTARY SCHOOL**  
155 EAST 200 SOUTH      MECHANICAL UPGRADE      ORANGEVILLE, UTAH

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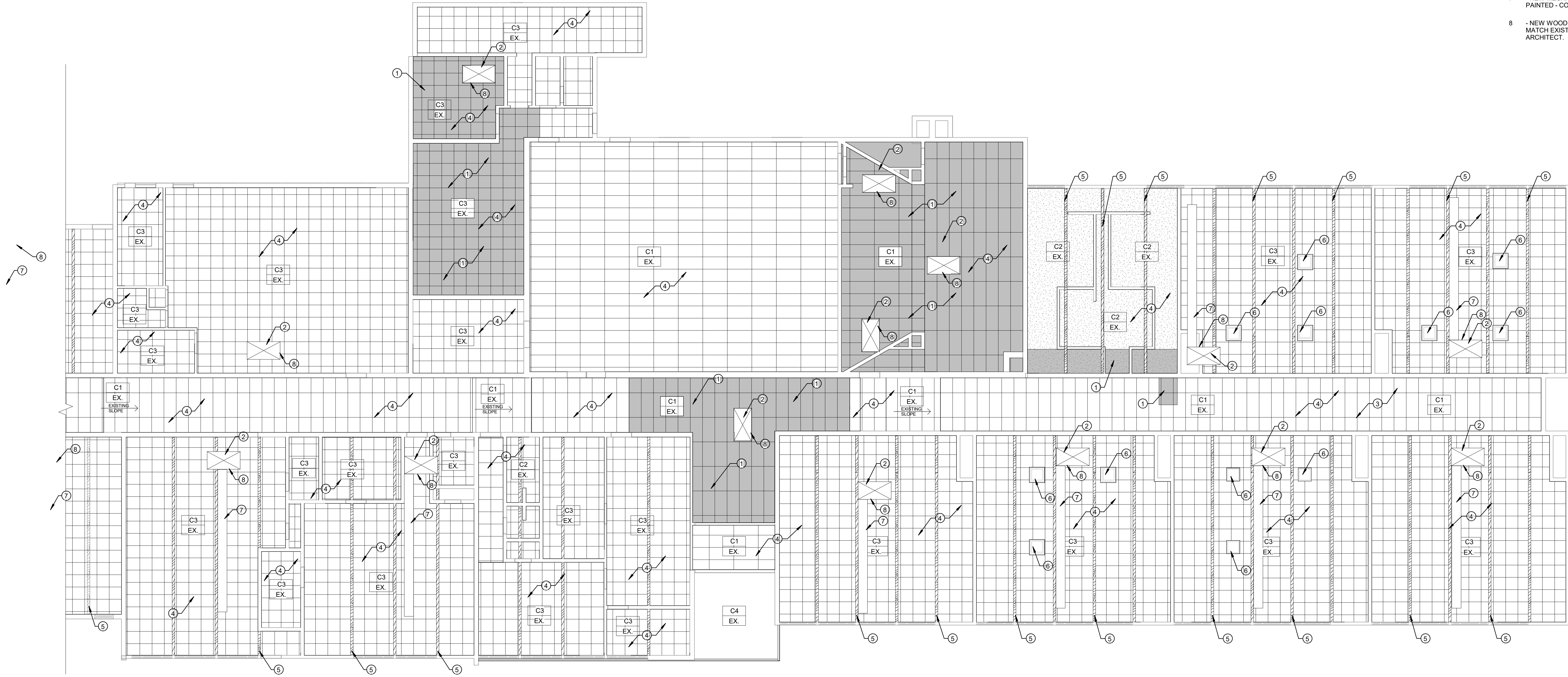
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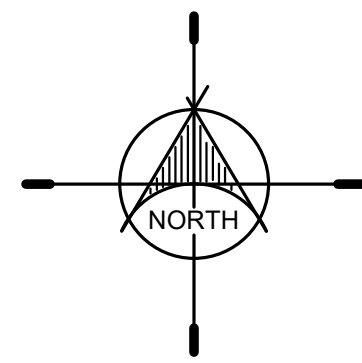
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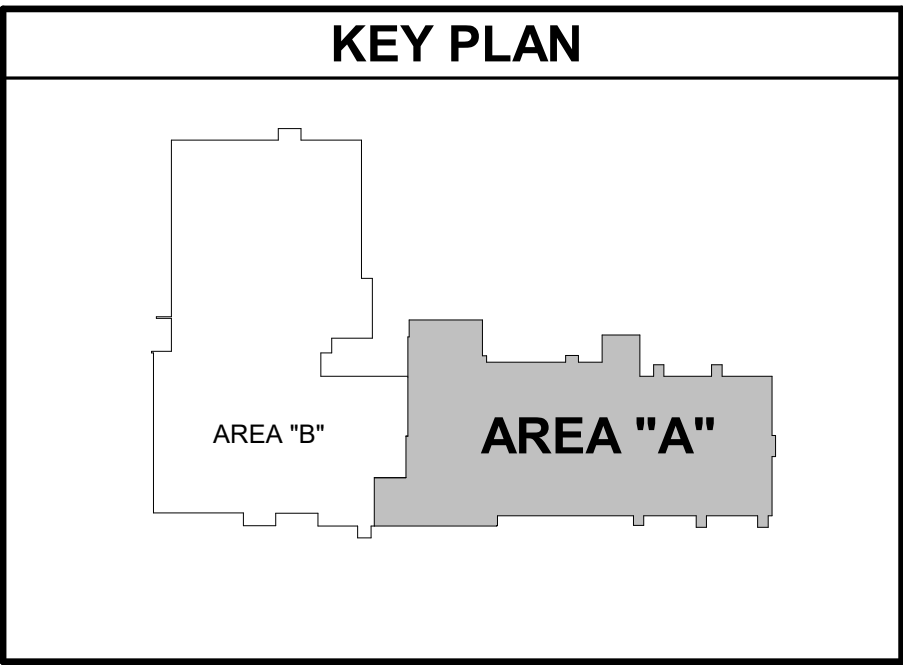


MAIN FLOOR REFLECTED AREA "A"  
1/8" = 1'-0"

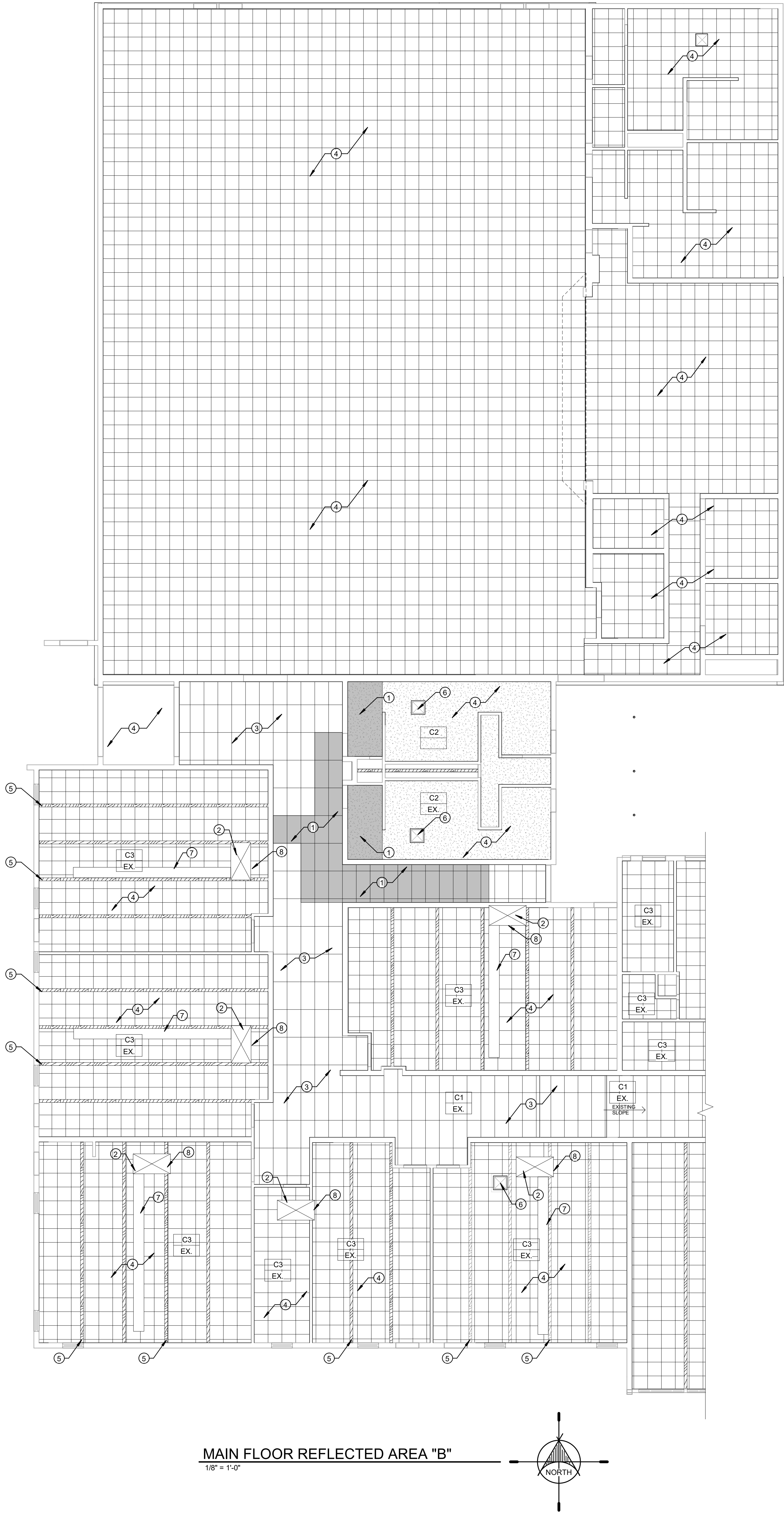


CEILING LEGEND		
C1	EXISTING 2X4 CEILING GRID.	
C2	EXISTING 5/8" GYP. BOARD (TEXTURED AND PAINTED)	
C3	EXISTING GLUE UP CEILING TILES	
C4	EXISTING SOFFIT	
	EXISTING CEILING HEIGHT (VERIFY ELEVATION)	
	LIGHT FIXTURES	
	MECHANICAL DIFFUSERS	

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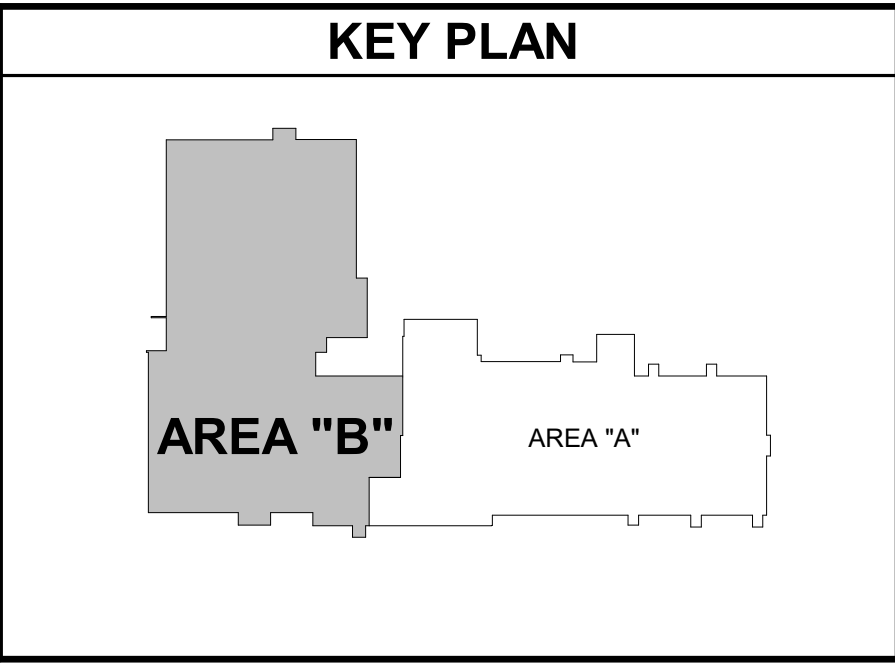


- SHEET NOTES**
- EXISTING CEILING TO BE REMOVED TO ALLOW ACCESS FOR DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR IS TO PRESERVE ALL CEILING ELEMENTS (LIGHT FIXTURES, CEILING TILE, CEILING GRID, ETC.) THAT IS REMOVED TO PROVIDE ACCESS WITHIN THE SHADED REGION. REINSTALL ALL ELEMENTS WHEN WORK ABOVE IS COMPLETED. CONTRACTOR IS TO REPLACE ANY DAMAGED COMPONENTS CAUSED BY CONSTRUCTION.
  - APPROXIMATE LOCATION OF NEW MECHANICAL UNIT. COORDINATE WITH MECHANICAL AND STRUCTURAL PLAN ON EXACT LOCATION AND BRACING - SEE STRUCTURAL DETAILS ON SHEET S2.0.
  - CEILING TILE IS TO BE REMOVED AND REINSTALLED AS NEEDED TO ALLOW FOR ANY NEW CONTROL WIRES TO BE INSTALLED. CONTRACTOR IS TO FIX ANY GRID DAMAGED DUE TO CONSTRUCTION.
  - EXISTING CONSTRUCTION TO REMAIN. CONTRACTOR TO PATCH, REPAIR, AND CLEAN AS REQUIRED DUE TO DEMOLITION AND NEW CONSTRUCTION.
  - EXISTING STRUCTURE TO REMAIN.
  - EXISTING SKY LIGHTS TO REMAIN.
  - NEW MECHANICAL EQUIPMENT AND DUCT WORK TO BE PAINTED - COLOR SELECTED BY ARCHITECT.
  - NEW WOOD STRUCTURAL SUPPORTS ARE TO BE STAINED TO MATCH EXISTING BEAMS - STAIN COLOR TO BE APPROVED BY ARCHITECT.



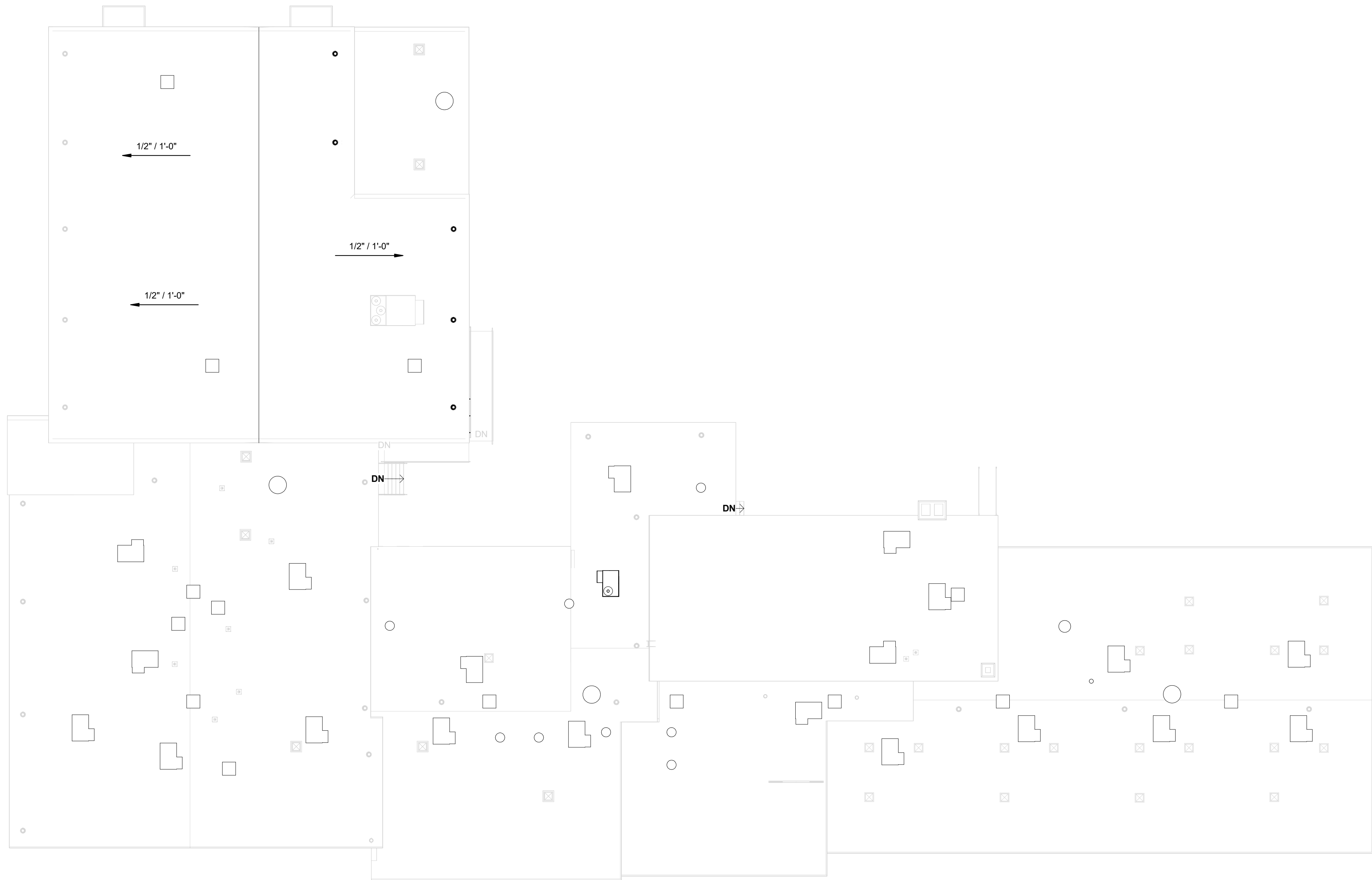
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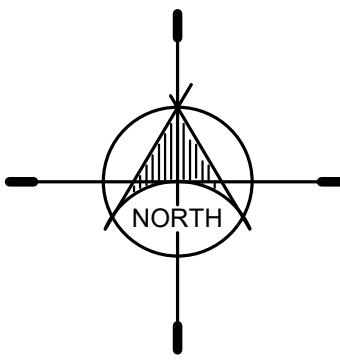


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OVERALL ROOF PLAN  
1/16" = 1'-0"



GENERAL NOTES

- A - ALL MECHANICAL UNITS AND ROOF PENETARIONS MAY NOT BE SHOWN. PROVIDE FLASHING, CRICKETS, AND REGLETS AT EACH UNIT SHOWN OR NOT. VERIFY ALL EXISTING PENETRATIONS
- B - PROVIDE FLASHING AND ROOFING BOOTS FOR ALL ELECTRICAL, CONDUIT PENETRATIONS THROUGH ROOF - VERIFY ALL EXISTING ELECTRICAL PENETRATIONS
- C - ALL ROOF CRICKETS TO BE SIZED AND SLOPED TO MATCH EXISTING
- D - ALL MEMBRANE ROOFING AREAS TO MATCH EXISTING SLOPE.
- E - ALL MECHANICAL, ROOF HATCH, SKYLIGHT, AND SOLATUBE CURBS TO BE 18" MINIMUM ABOVE ROOF DECK.
- F- CONTRACTOR RESPONSIBLE FOR ANY INTERIOR DAMAGES DUE TO MECHANICAL UPGRADE
- G- CONTRACTOR IS TO PRESERVE, PROTECT, REPLACE ALL EXISTING CONDITIONS THAT ARE AFFECTED DUE TO CONSTRUCTION
- H- CONTRACTOR IS TO DOCUMENT EXISTING CONDITIONS BEFORE STARTING DEMOLITION.

GENERAL DEMOLITION NOTES

- 1 - CONTRACTOR TO PROVIDE PLYWOOD SHEATHING, INSULATION, AND MEMBRANE FOR WALLS & ROOF TO PROTECT INTERIOR FROM WEATHER DURING DEMOLITION AND CONSTRUCTION.
- 2 - ALL PLUMBING, HVAC, & ELECTRICAL WILL BE RE-ROUTED OR MODIFIED TO ALLOW COMPLETE CONTINUITY OF UTILITY SERVICE FOR SCHOOL OPERATION DURING CONSTRUCTION.
- 3 - STAGING TO BE DETERMINED BY GENERAL CONTRACTOR. (COSTS FOR TEMPORARY STAGING BY CONTRACTOR.)
- 4 - CONSTRUCTION FENCING SEPARATE NEW CONSTRUCTION AND DEMOLITION FROM ALL STUDENT ACTIVITY. (COSTS FOR TEMPORARY CONSTRUCTION FENCING BY CONTRACTOR.)
- 5 - CONSTRUCTION AND DEMOLITION ACCESS TO BE DETERMINED BY GENERAL CONTRACTOR AND OWNER.

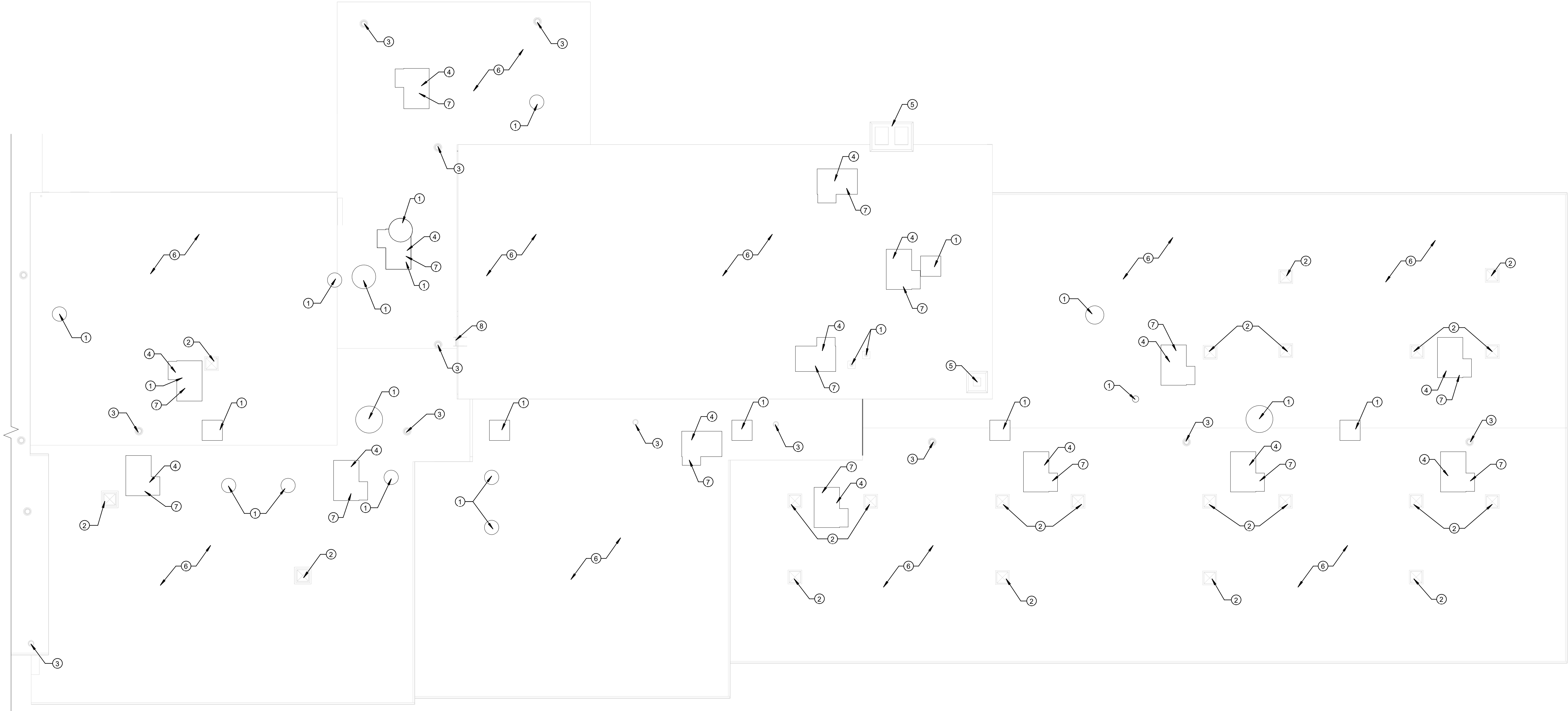
ROOFING DEMOLITION NOTE

- A - CONTRACTOR TO INCLUDE ANY NEW ROOF DECKING, 6" RIGID INSULATION, CURBING, AND SHEET MEMBRANE ROOFING AT ANY ROOF PENETRATION DUE TO CONSTRUCTION. COORDINATE ALL ROOF PENETRATIONS WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND KITCHEN SHEETS FOR ROOF REPAIRS.
- B - CONTRACTOR TO ADD NEW PLYWOOD DECKING, 6" RIGID INSULATION AND ROOF MEMBRANE OVER OPENING CREATED AT CURBS BY REMOVAL OF ANY EXISTING UNITS. REFER TO MECHANICAL DEMOLITION SHEET FOR LOCATIONS.

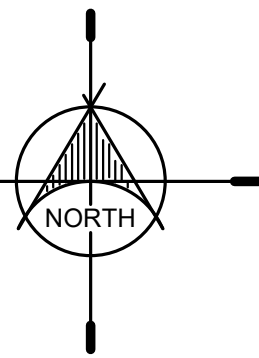
KEY PLAN







ROOF PLAN "AREA A"  
1/8" = 1'-0"



## SHEET NOTES

- EXISTING MECHANICAL UNITS, VENTS, PIPING, ETC. COORDINATE WITH MECHANICAL DEMOLITION PLANS. IF COMPONENT IS TO BE REMOVED CONTRACTOR IS TO PATCH AND REPAIR THE ROOF AND DECKING. IF THE COMPONENT IS NOT TO BE REMOVED PRESERVE AND PROTECT DURING CONSTRUCTION.
- EXISTING SKYLIGHT TO REMAIN (TYP.)
- EXISTING ROOF DRAIN TO REMAIN (TYP.)
- APPROXIMATE LOCATION OF NEW MECHANICAL UNIT. REMOVE EXISTING ROOF FOR NEW MECHANICAL UNIT CURB. PATCH AND REPAIR ALL ADDITIONAL PENETRATIONS. COORDINATE WITH MECHANICAL PLANS.
- EXISTING CHIMNEY STACK TO REMAIN (TYP.)
- EXISTING ROOF MEMBRANE AND INSULATION TO REMAIN - PATCH AND REPAIR DUE TO CONSTRUCTION.
- NEW MECHANICAL CURBING AND FLASHING AT ALL NEW UNITS TO PROVIDE PROPER DRAINAGE SEE MECHANICAL DETAIL ON SHEET M6.1.
- EXISTING ACCESS LADDER TO REMAIN.

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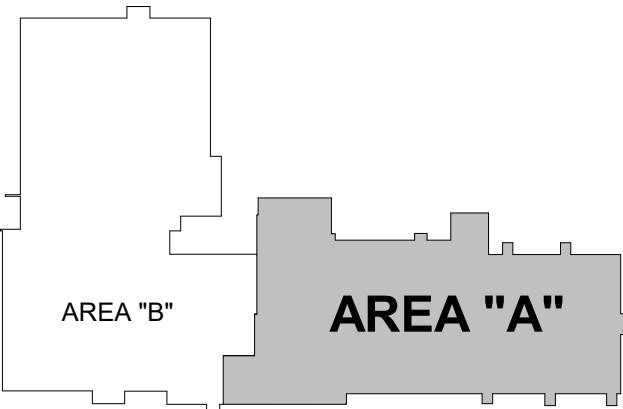
## GENERAL DEMOLITION NOTES

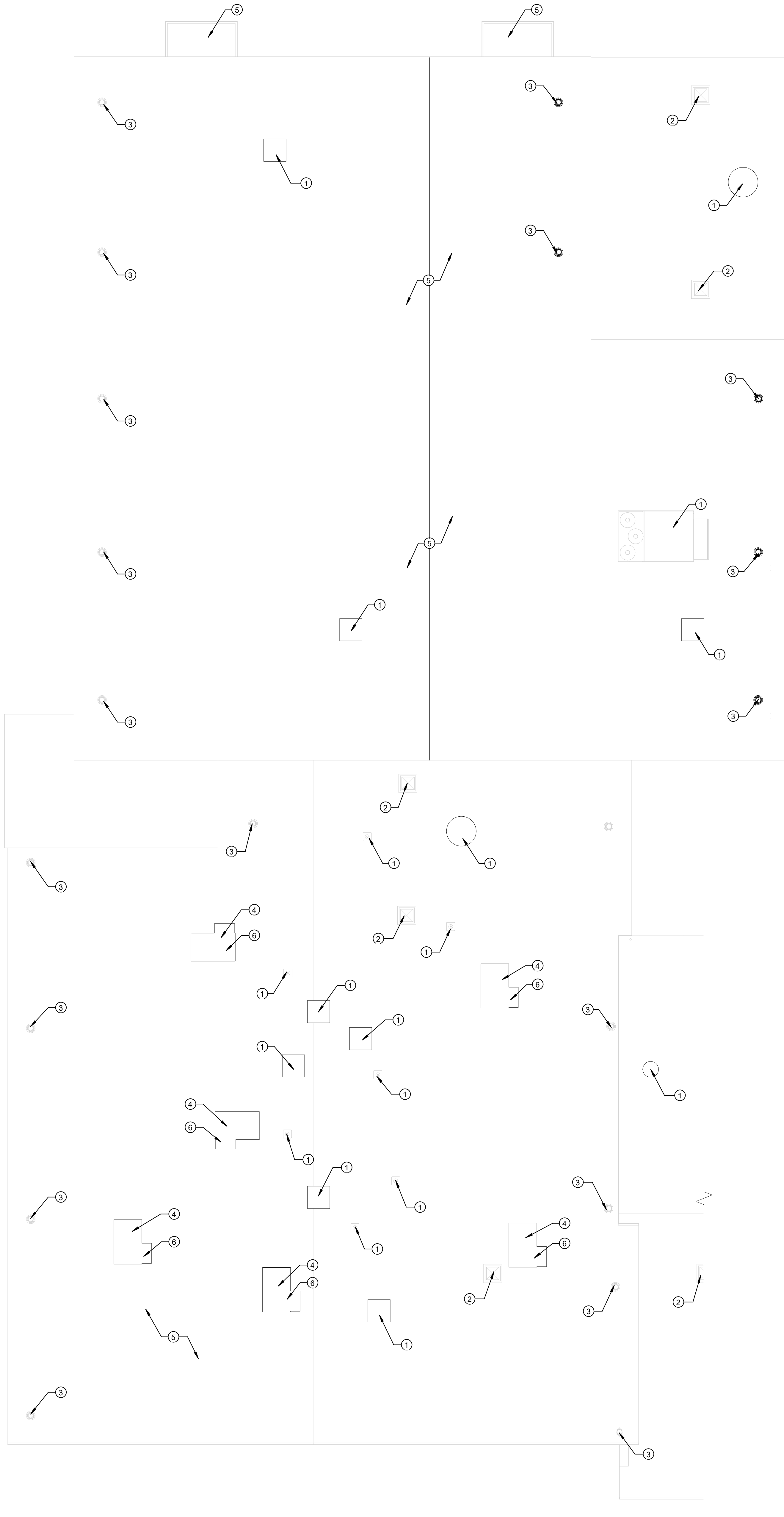
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- 5 - CONSTRUCTION AND DEMOLITION ACCESS TO BE DETERMINED BY GENERAL CONTRACTOR AND OWNER.**

## ROOFING DEMOLITION NOTE

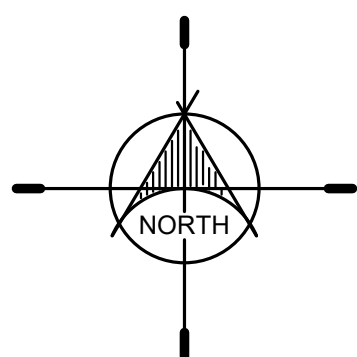
- A - CONTRACTOR TO INCLUDE ANY NEW ROOF DECKING, 6" RIGID INSULATION, CURBING, AND SHEET MEMBRANE ROOFING AT ANY ROOF PENETRATION DUE TO CONSTRUCTION. COORDINATE ALL ROOF PENETRATIONS WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND KITCHEN SHEETS FOR ROOF REPAIRS.
- B - CONTRACTOR TO ADD NEW PLYWOOD DECKING, 6" RIGID INSULATION AND ROOF MEMBRANE OVER OPENING CREATED AT CURBS BY REMOVAL OF ANY EXISTING UNITS. REFER TO MECHANICAL DEMOLITION SHEET FOR LOCATIONS.

## KEY PLAN





ROOF PLAN "AREA B"  
1/8" = 1'-0"



#### SHEET NOTES

- EXISTING MECHANICAL UNITS, VENTS, PIPING, ETC. COORDINATE WITH MECHANICAL DEMOLITION PLANS. IF COMPONENT IS TO BE REMOVED CONTRACTOR IS TO PATCH AND REPAIR THE ROOF AND DECKING. IF THE COMPONENT IS NOT TO BE REMOVED PRESERVE AND PROTECT DURING CONSTRUCTION.
- EXISTING SKYLIGHT TO REMAIN (TYP.)
- EXISTING ROOF DRAIN TO REMAIN (TYP.)
- APPROXIMATE LOCATION OF NEW MECHANICAL UNIT. REMOVE EXISTING ROOF FOR NEW MECHANICAL UNIT CURB. PATCH AND REPAIR ALL ADDITIONAL PENETRATIONS. COORDINATE WITH MECHANICAL PLANS.
- EXISTING ROOF MEMBRANE AND INSULATION TO REMAIN - PATCH AND REPAIR DUE TO CONSTRUCTION.
- NEW MECHANICAL CURBING AND FLASHING AT ALL NEW UNITS TO PROVIDE PROPER DRAINAGE SEE MECHANICAL DETAIL ON SHEET M6.1.

#### GENERAL NOTES

- A - ALL MECHANICAL UNITS AND ROOF PENETRATIONS MAY NOT BE SHOWN. PROVIDE FLASHING, CRICKETS, AND REGLETS AT EACH UNIT SHOWN OR NOT. VERIFY ALL EXISTING PENETRATIONS
- B - PROVIDE FLASHING AND ROOFING BOOTS FOR ALL ELECTRICAL, CONDUIT PENETRATIONS THROUGH ROOF - VERIFY ALL EXISTING ELECTRICAL PENETRATIONS
- C - ALL ROOF CRICKETS TO BE SIZED AND SLOPED TO MATCH EXISTING
- D - ALL MEMBRANE ROOFING AREAS TO MATCH EXISTING SLOPE.
- E - ALL MECHANICAL, ROOF HATCH, SKYLIGHT, AND SOLATUBE CURBS TO BE 18" MINIMUM ABOVE ROOF DECK.
- F - CONTRACTOR RESPONSIBLE FOR ANY INTERIOR DAMAGES DUE TO MECHANICAL UPGRADE
- G - CONTRACTOR IS TO PRESERVE, PROTECT, REPLACE ALL EXISTING CONDITIONS THAT ARE AFFECTED DUE TO CONSTRUCTION
- H - CONTRACTOR IS TO DOCUMENT EXISTING CONDITIONS BEFORE STARTING DEMOLITION.

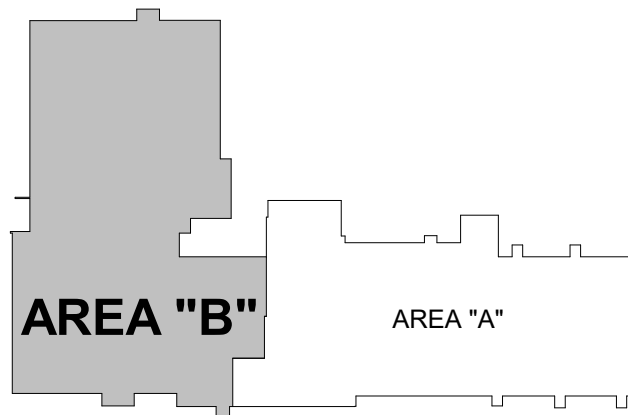
#### GENERAL DEMOLITION NOTES

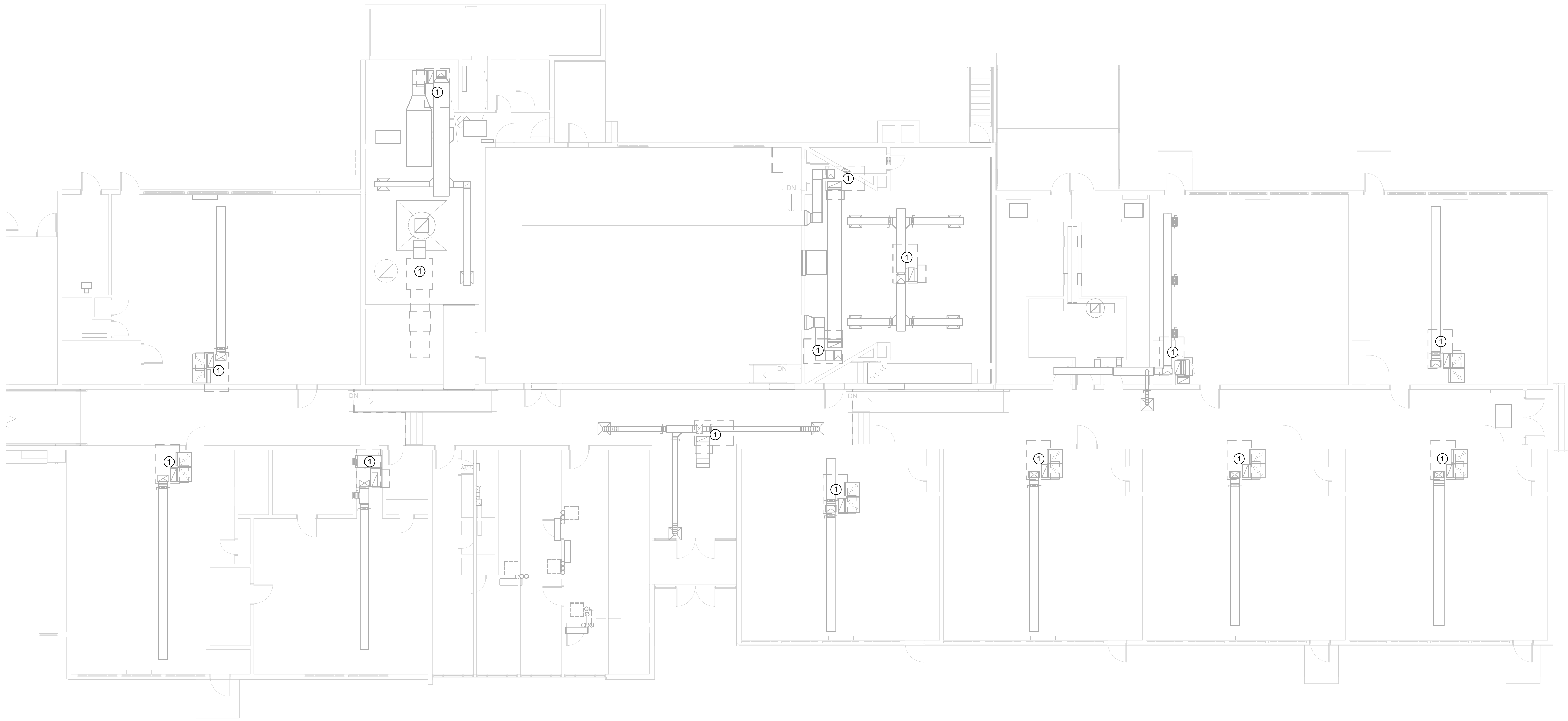
- 1 - CONTRACTOR TO PROVIDE PLYWOOD SHEATHING, INSULATION, AND MEMBRANE FOR WALLS & ROOF TO PROTECT INTERIOR FROM WEATHER DURING DEMOLITION AND CONSTRUCTION.**
- 2 - ALL PLUMBING, HVAC, & ELECTRICAL WILL BE RE-ROUTED OR MODIFIED TO ALLOW COMPLETE CONTINUITY OF UTILITY SERVICE FOR SCHOOL OPERATION DURING CONSTRUCTION.**
- 3 - STAGING TO BE DETERMINED BY GENERAL CONTRACTOR. (COSTS FOR TEMPORARY STAGING BY CONTRACTOR.)**
- 4 - CONSTRUCTION FENCING SEPARATE NEW CONSTRUCTION AND DEMOLITION FROM ALL STUDENT ACTIVITY. (COSTS FOR TEMPORARY CONSTRUCTION FENCING BY CONTRACTOR.)**
- 5 - CONSTRUCTION AND DEMOLITION ACCESS TO BE DETERMINED BY GENERAL CONTRACTOR AND OWNER.**

#### ROOFING DEMOLITION NOTE

- A - CONTRACTOR TO INCLUDE ANY NEW ROOF DECKING, 6" RIGID INSULATION, CURBING, AND SHEET MEMBRANE ROOFING AT ANY ROOF PENETRATION DUE TO CONSTRUCTION. COORDINATE ALL ROOF PENETRATIONS WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND KITCHEN SHEETS FOR ROOF REPAIRS.
- B - CONTRACTOR TO ADD NEW PLYWOOD DECKING, 6" RIGID INSULATION AND ROOF MEMBRANE OVER OPENINGS CREATED AT CURBS BY REMOVAL OF ANY EXISTING UNITS. REFER TO MECHANICAL DEMOLITION SHEET FOR LOCATIONS.

#### KEY PLAN

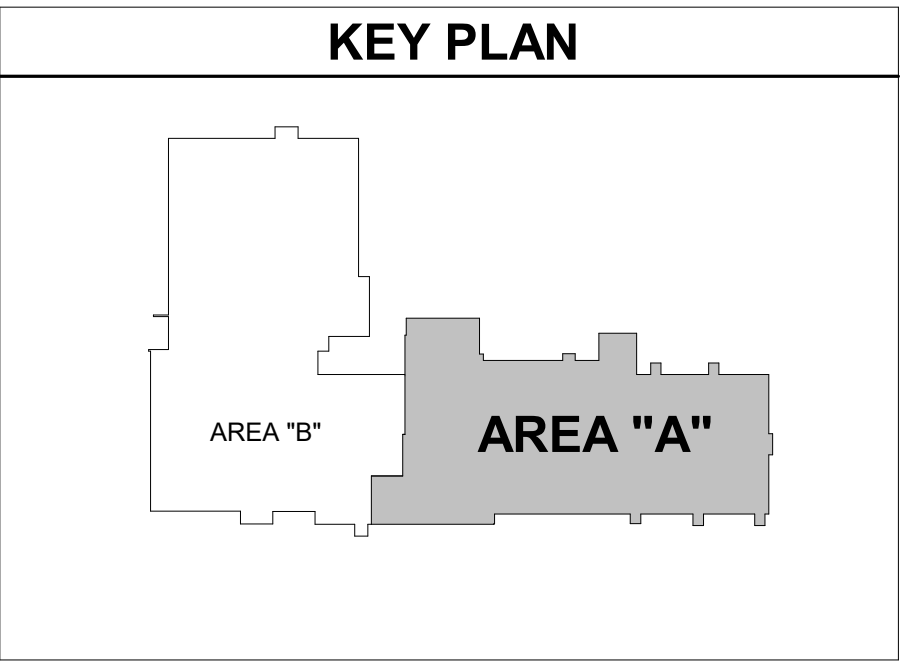




1 FLOOR PLAN AREA 'A'  
1/8" = 1'-0"

SHEET NOTES

- 1 SEE DETAILS ON S2.0 FOR REQUIRED FRAMING AROUND NEW DUCT OPENINGS THROUGH EXISTING ROOF. SEE MECHANICAL PLANS FOR EXACT NUMBER OF NEW UNITS AND REQUIRED DUCT CONFIGURATIONS



PROJECT TITLE

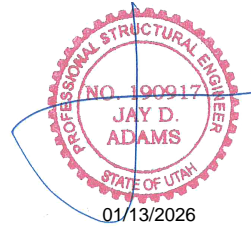
EMERY SCHOOL DISTRICT

COTTONWOOD ELEMENTARY SCHOOL

MECHANICAL UPGRADE

ORANGEVILLE, UTAH

REVISIONS:



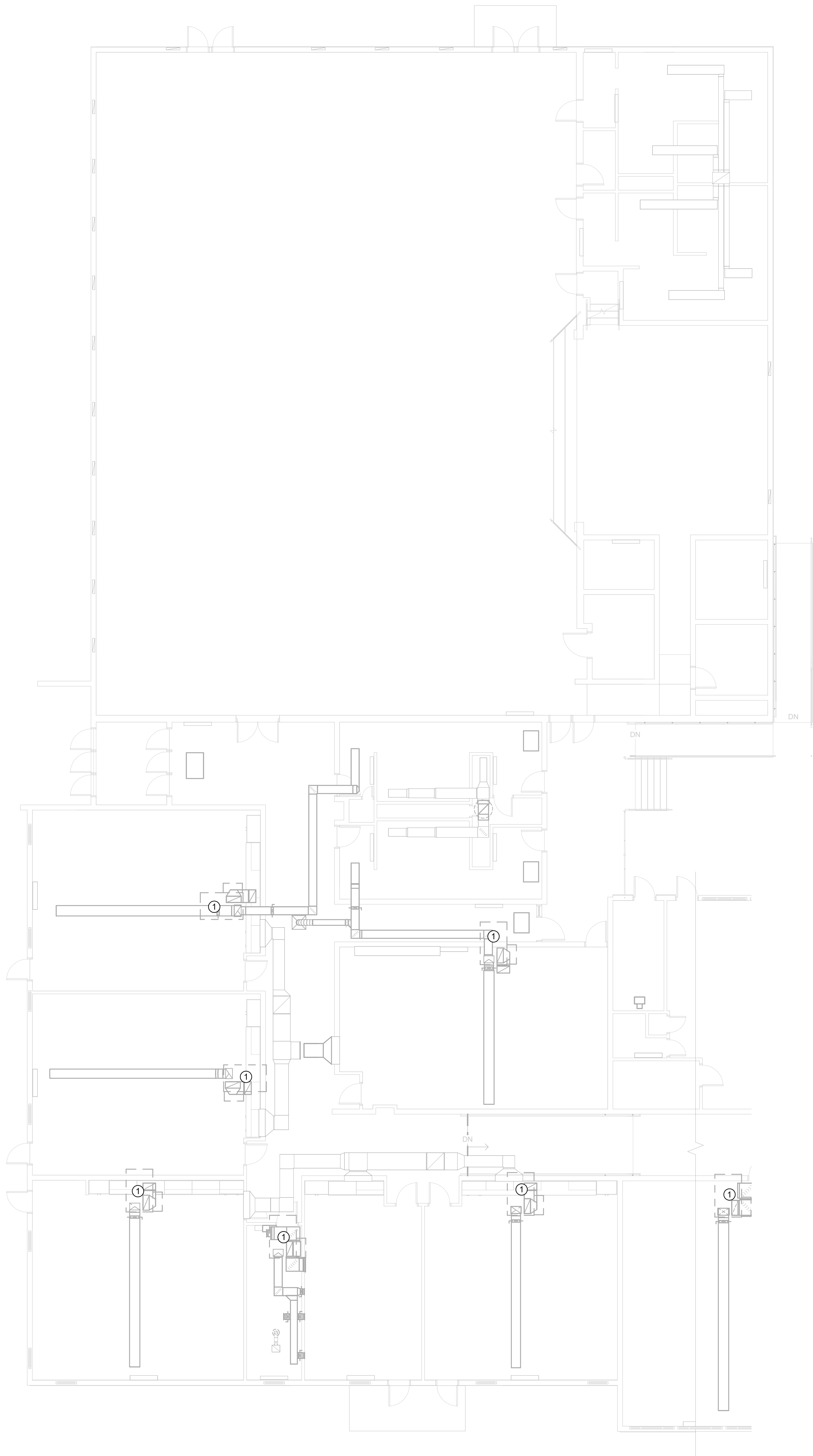
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SPANISH FORK, UT 84660  
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DRAWN BY: J.K.P.  
CHECKED BY: J.D.A.  
DATE: JAN. 15, 2026  
PROJECT #: 7611125

S1.0A

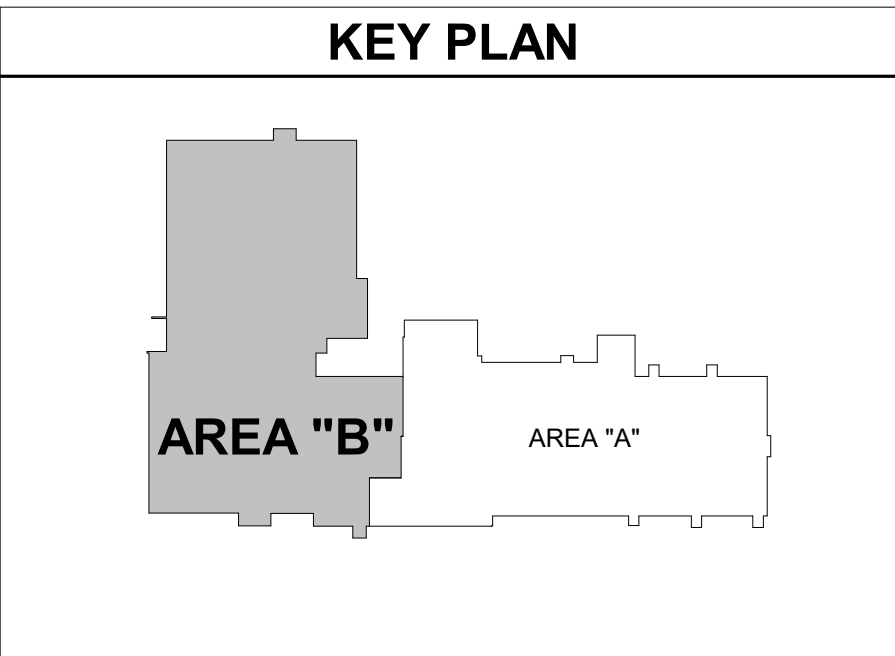




1 FLOOR PLAN AREA 'B'  
1/8" = 1'-0"

SHEET NOTES

- 1 SEE DETAILS ON S2.0 FOR REQUIRED FRAMING AROUND NEW DUCT OPENINGS THROUGH EXISTING ROOF. SEE MECHANICAL PLANS FOR EXACT NUMBER OF NEW UNITS AND REQUIRED DUCT CONFIGURATIONS



PROJECT TITLE

EMERY SCHOOL DISTRICT

COTTONWOOD ELEMENTARY SCHOOL

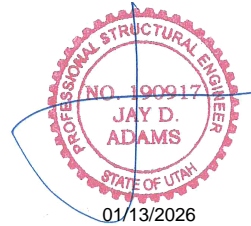
MECHANICAL UPGRADE

ORANGEVILLE, UTAH

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DATE: JAN. 15, 2026  
PROJECT #: 7611125

S1.0B

REVISIONS:



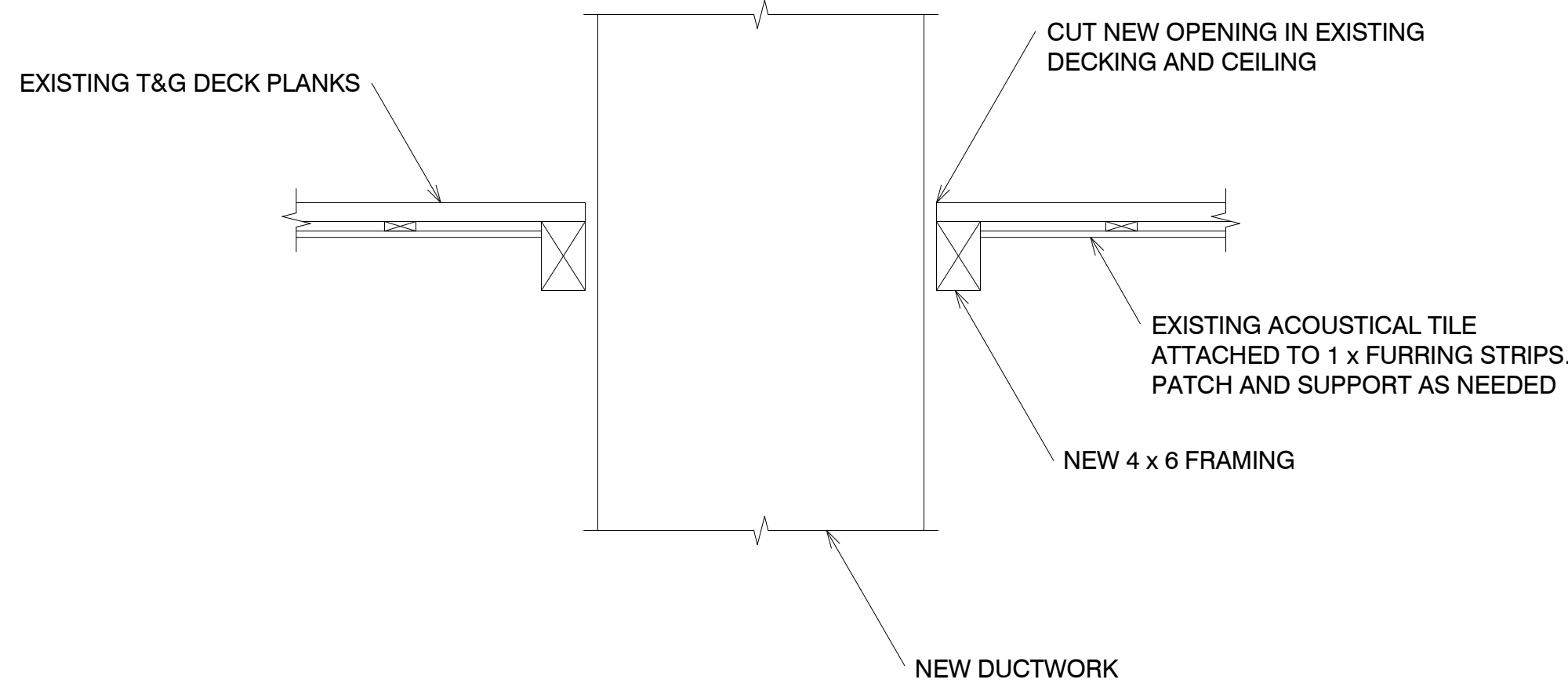
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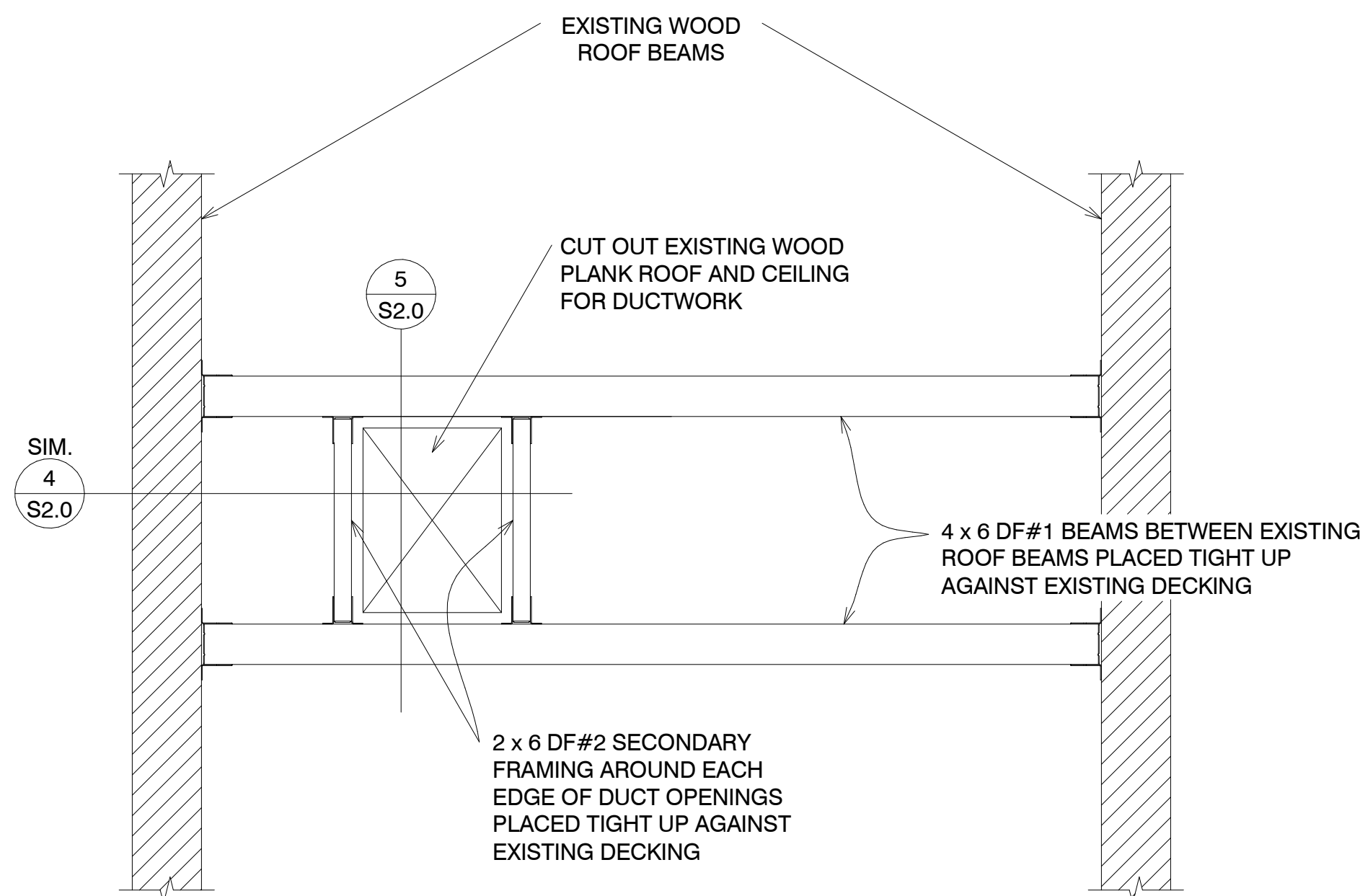
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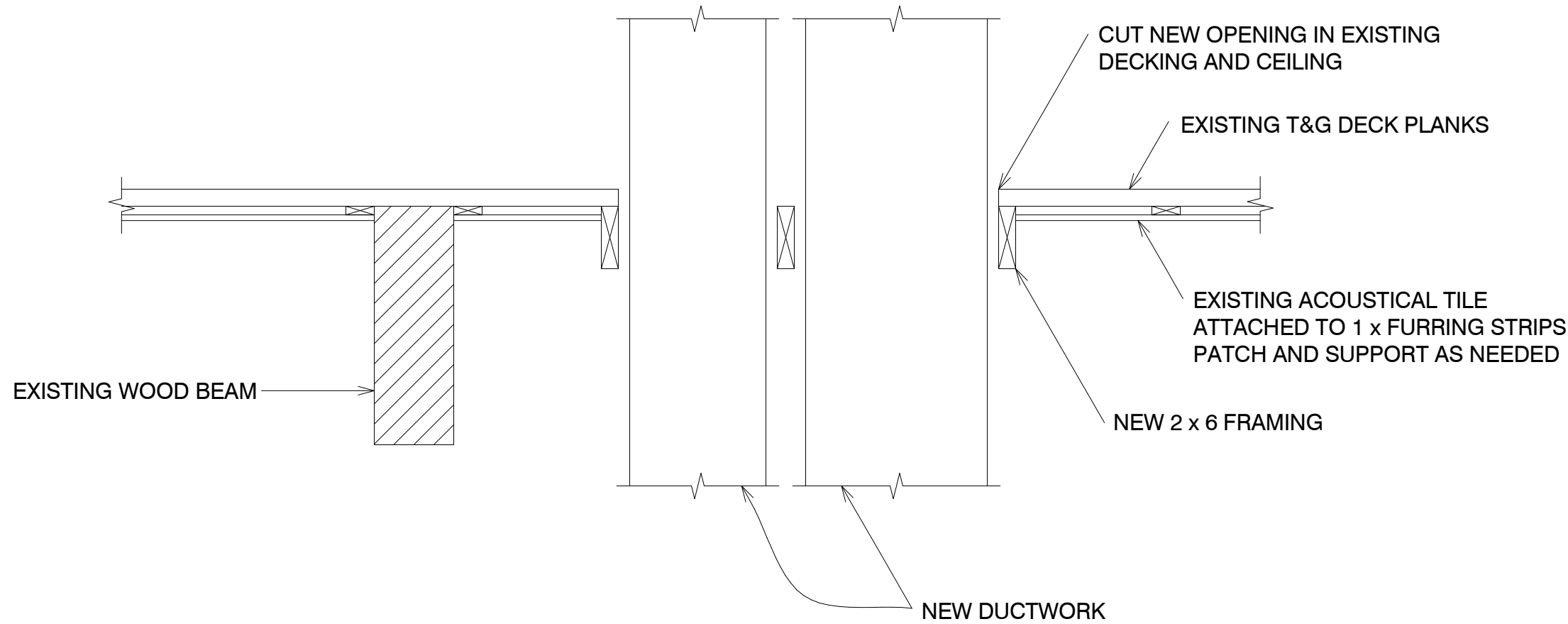
5  
S2.0  
CONSTRUCTION DETAIL  
NO SCALE

FOR NEW DUCT OPENINGS THROUGH AREAS WITH CONVENTIONAL RAFTER FRAMING, USE SAME DETAILS BUT REPLACE FRAMING MEMBERS WITH NEW 2 X DIMENSIONAL RAFTERS MATCHING EXISTING RAFTER DEPTH. PROVIDE SIMPSON LU210 EACH END OF EACH NEW MEMBER

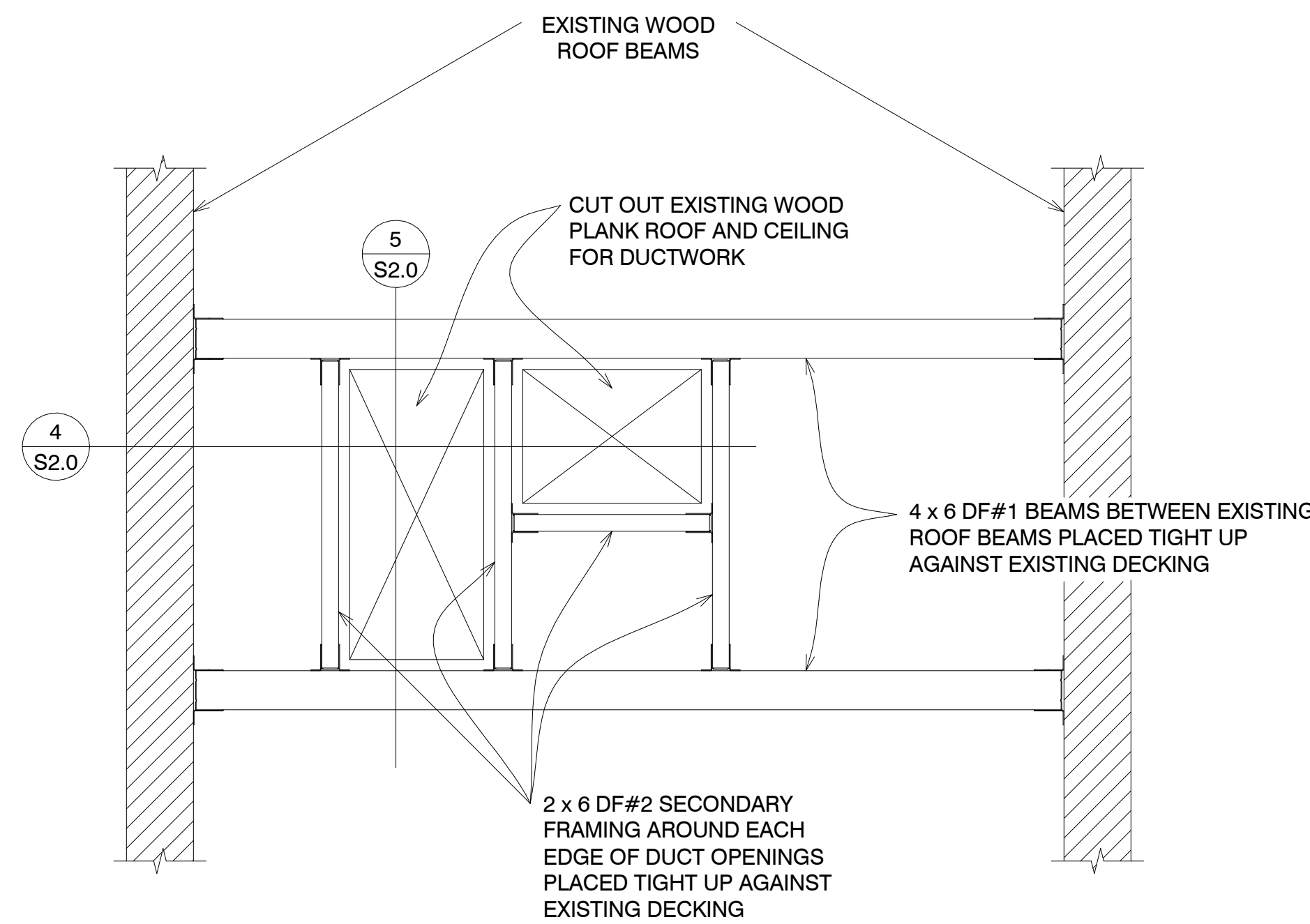


- NOTES:
1. PROVIDE SIMPSON HU46 EACH END OF EACH 4 x 6. PAINT BLACK.
  2. PROVIDE SIMPSON HU26 EACH END OF EACH 2 x 6. PAINT BLACK.

3  
S2.0  
CONSTRUCTION DETAIL  
NO SCALE

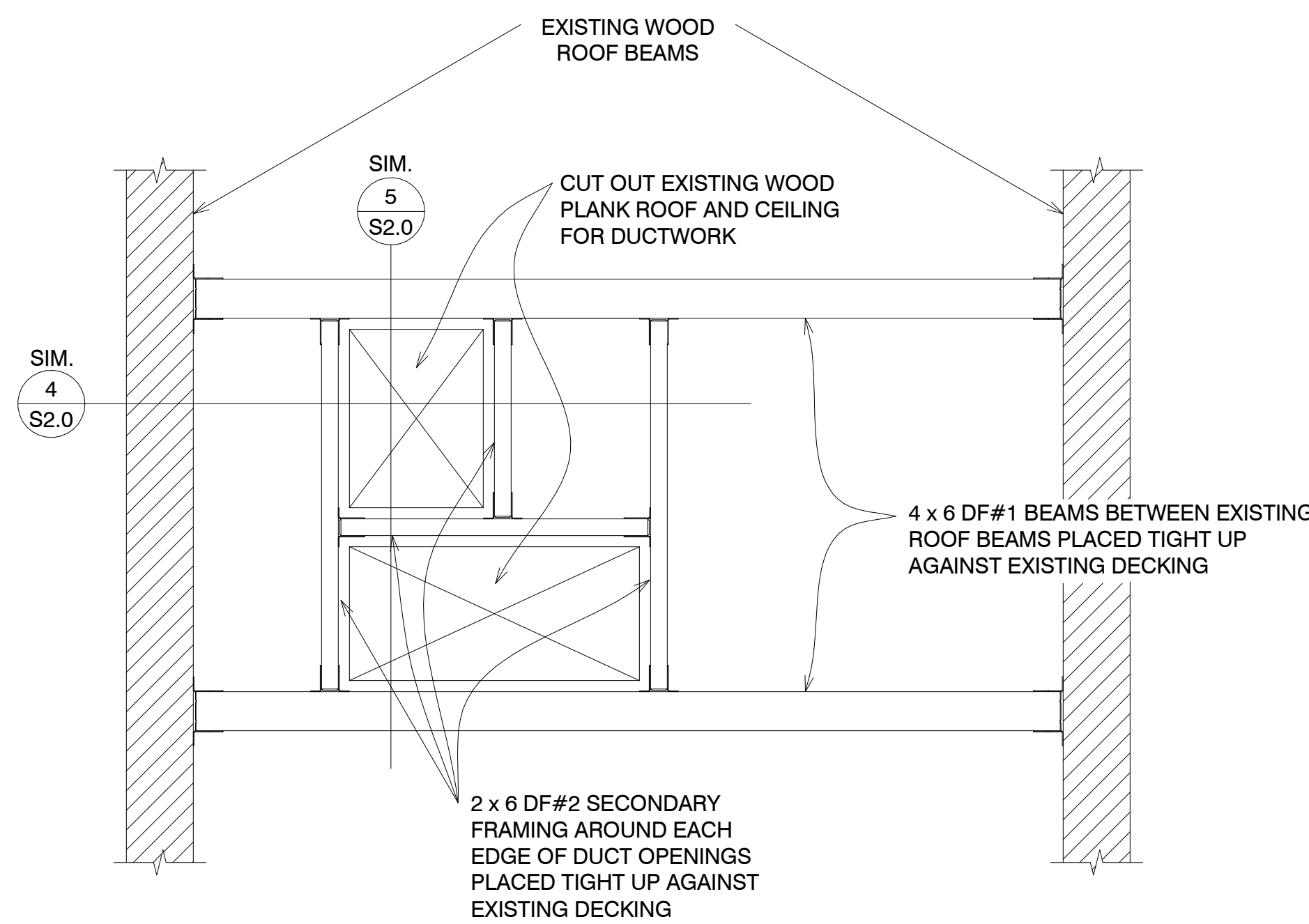


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S2.0  
CONSTRUCTION DETAIL  
NO SCALE



- NOTES:
1. PROVIDE SIMPSON HU46 EACH END OF EACH 4 x 6. PAINT BLACK.
  2. PROVIDE SIMPSON HU26 EACH END OF EACH 2 x 6. PAINT BLACK.

1  
S2.0  
CONSTRUCTION DETAIL  
NO SCALE

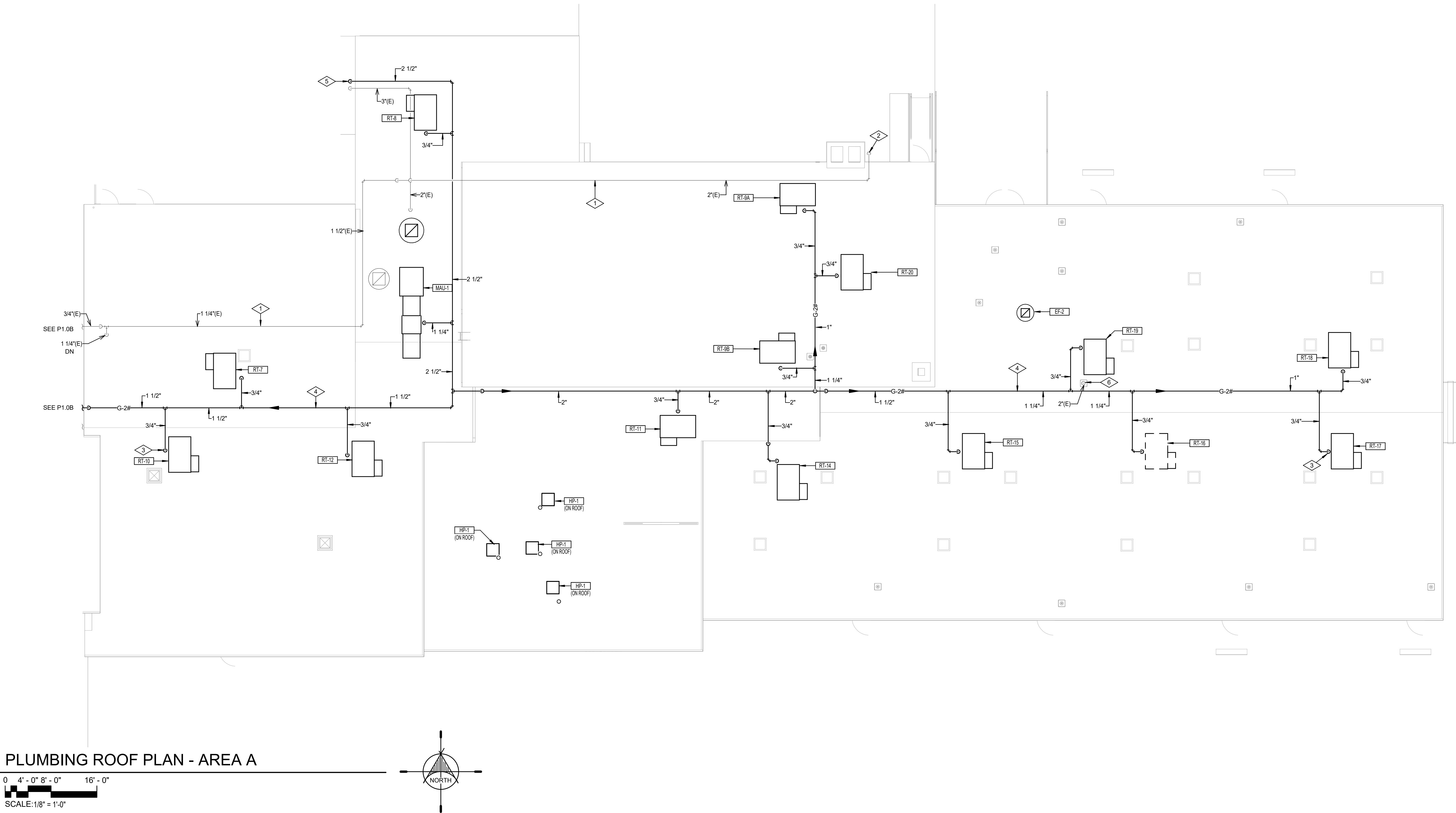


- NOTES:
1. PROVIDE SIMPSON HU46 EACH END OF EACH 4 x 6. PAINT BLACK.
  2. PROVIDE SIMPSON HU26 EACH END OF EACH 2 x 6. PAINT BLACK.

2  
S2.0  
CONSTRUCTION DETAIL  
NO SCALE

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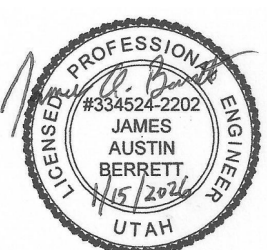
- EXISTING GAS PIPING ON ROOF TO REMAIN.
- EXISTING GAS PIPING DROPS TO BOILER ROOM BELOW.
- GAS TO EQUIPMENT. SEE DETAIL 2/PS.1 (TYPICAL).
- SUPPORT PIPING ON ROOF. SEE DETAIL 3/PS.1 (TYPICAL).
- MAKE NEW CONNECTION TO EXISTING GAS METER.
- ADD AIR ADMITTANCE VALVE WITH UV RESISTANT CAP TO EXISTING PLUMBING VENT, FIELD VERIFY VENT SIZE.

#### KEY PLAN



**OLSEN & PETERSON**  
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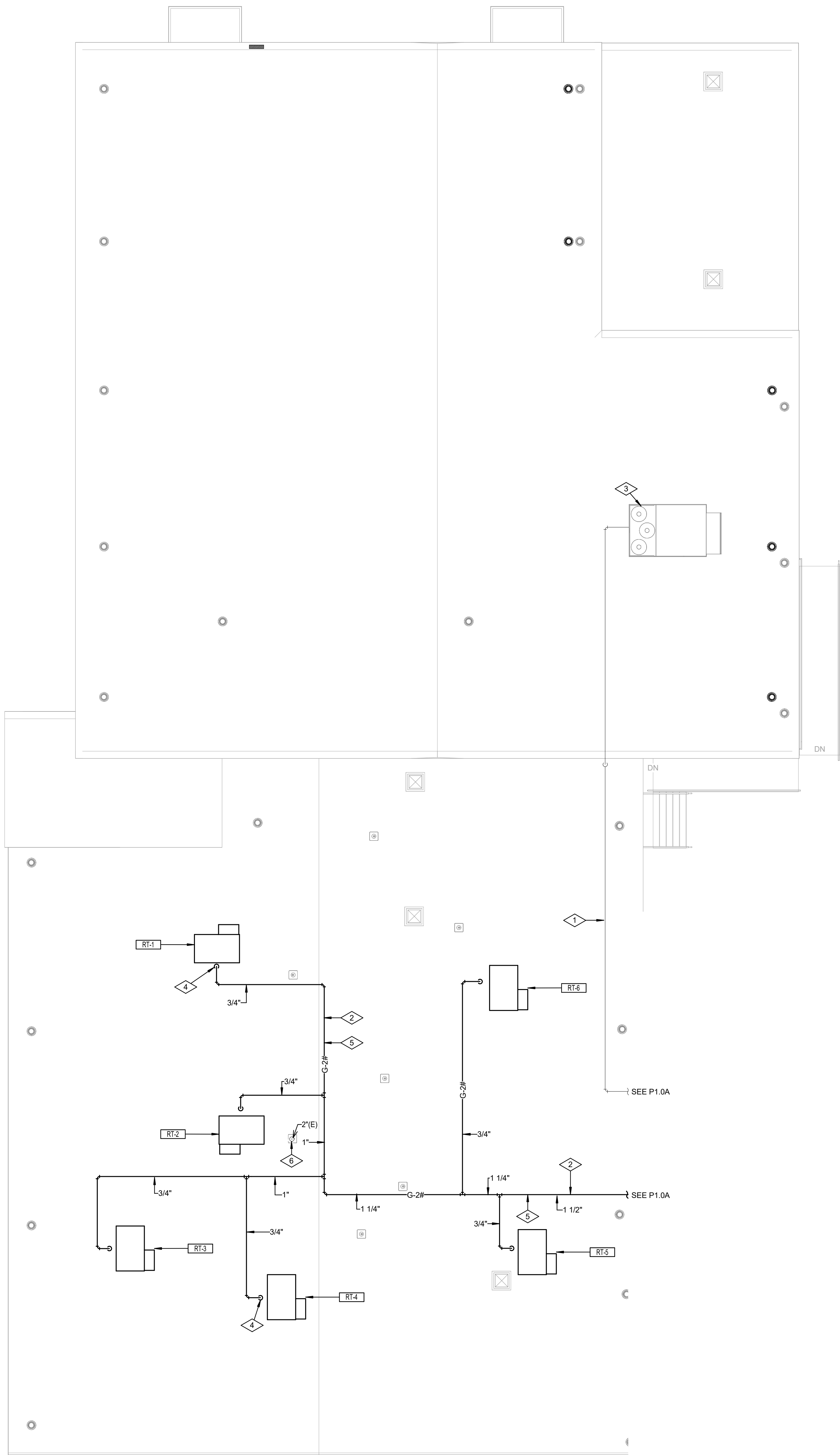
#### REVISIONS:

PROJECT TITLE  
EMERY SCHOOL DISTRICT  
**COTTONWOOD ELEMENTARY**  
155 EAST 200 SOUTH  
MECHANICAL UPGRADE  
ORANGEVILLE, UTAH

DRAWN BY: STAFF  
CHECKED BY: M.T.  
DATE: JAN 2026  
PROJECT #: 176525

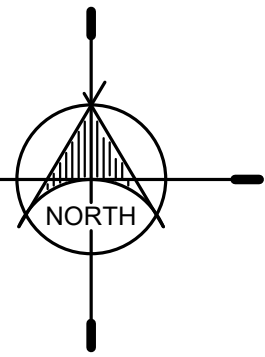
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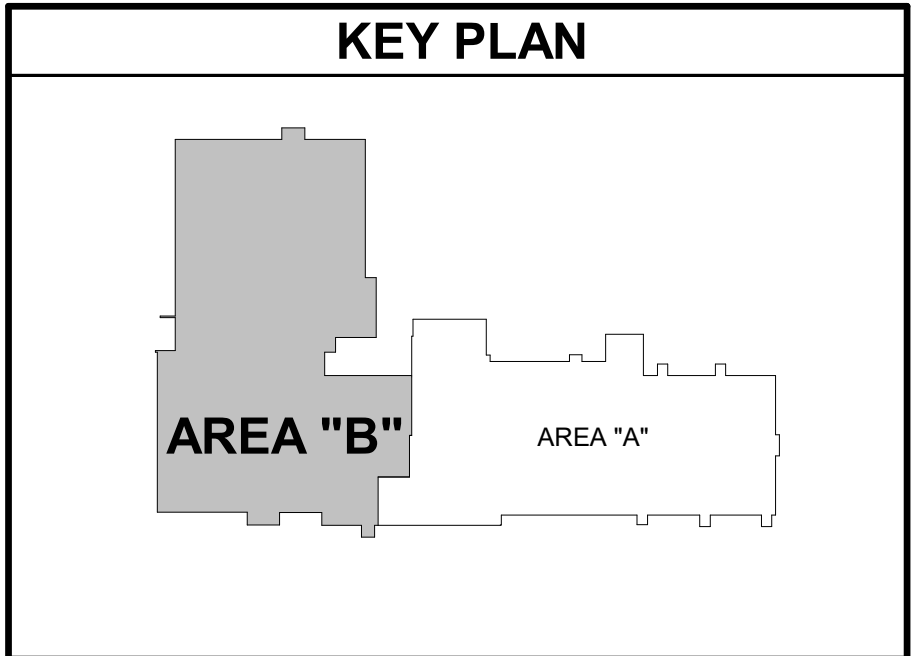
PLUMBING ROOF PLAN - AREA B

0 4' - 0" 8' - 0" 16' - 0"  
SCALE: 1/8" = 1'-0"



REFERENCE NOTES

- EXISTING GAS PIPING ON ROOF TO REMAIN.
- NEW GAS PIPING ON ROOF (TYP).
- EXISTING ROOF TOP UNIT ON GYM ROOF TO REMAIN.
- GAS TO EQUIPMENT. SEE DETAIL 2/P6.1 (TYPICAL).
- SUPPORT PIPING ON ROOF. SEE DETAIL 3/P6.1. (TYPICAL).
- ADD AIR ADMITTANCE VALVE WITH UV RESISTANT CAP TO EXISTING PLUMBING VENT, FIELD VERIFY VENT SIZE.



PROJECT TITLE

EMERY SCHOOL DISTRICT  
**COTTONWOOD ELEMENTARY**  
155 EAST 200 SOUTH MECHANICAL UPGRADE ORANGEVILLE, UTAH

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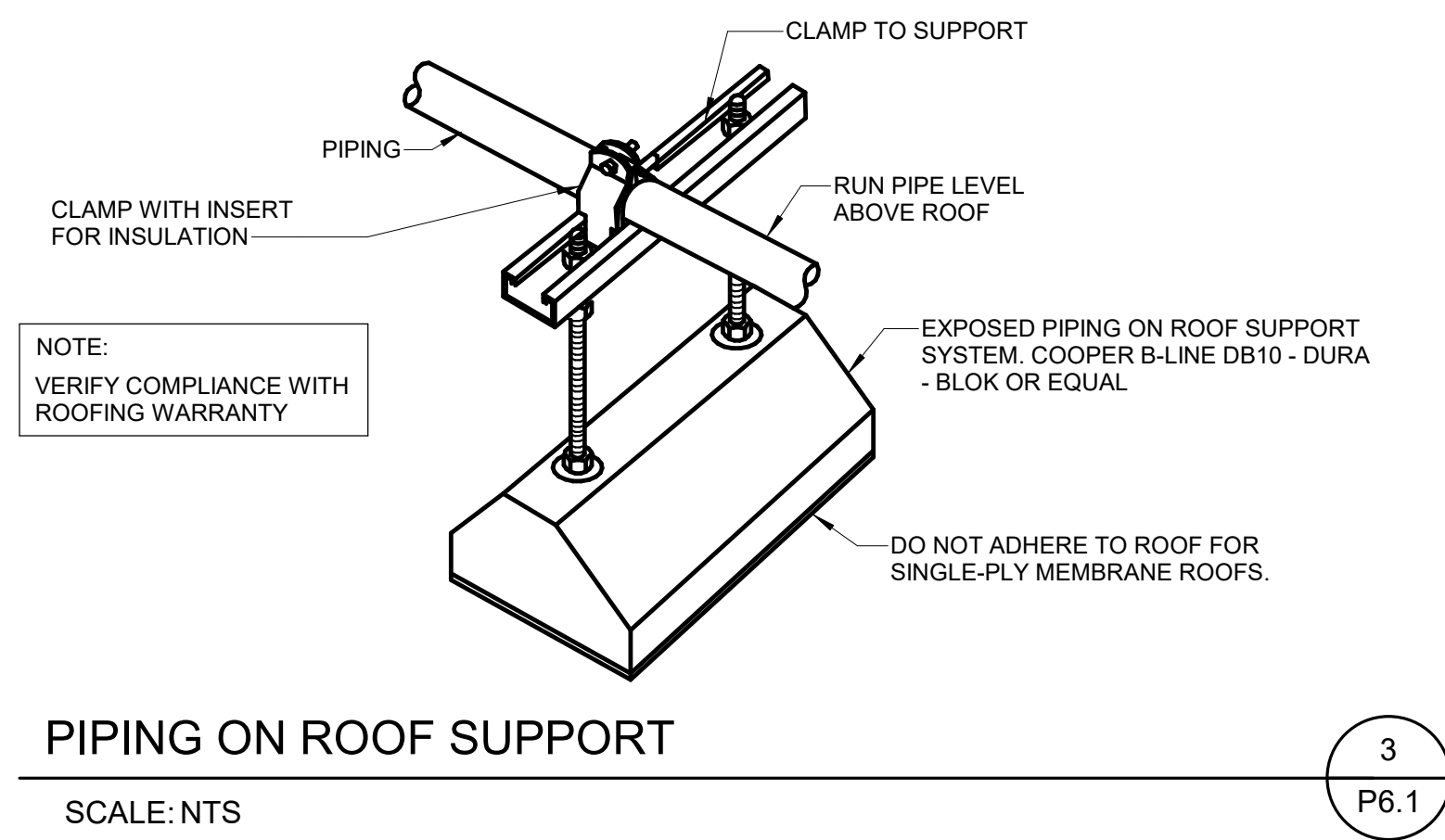
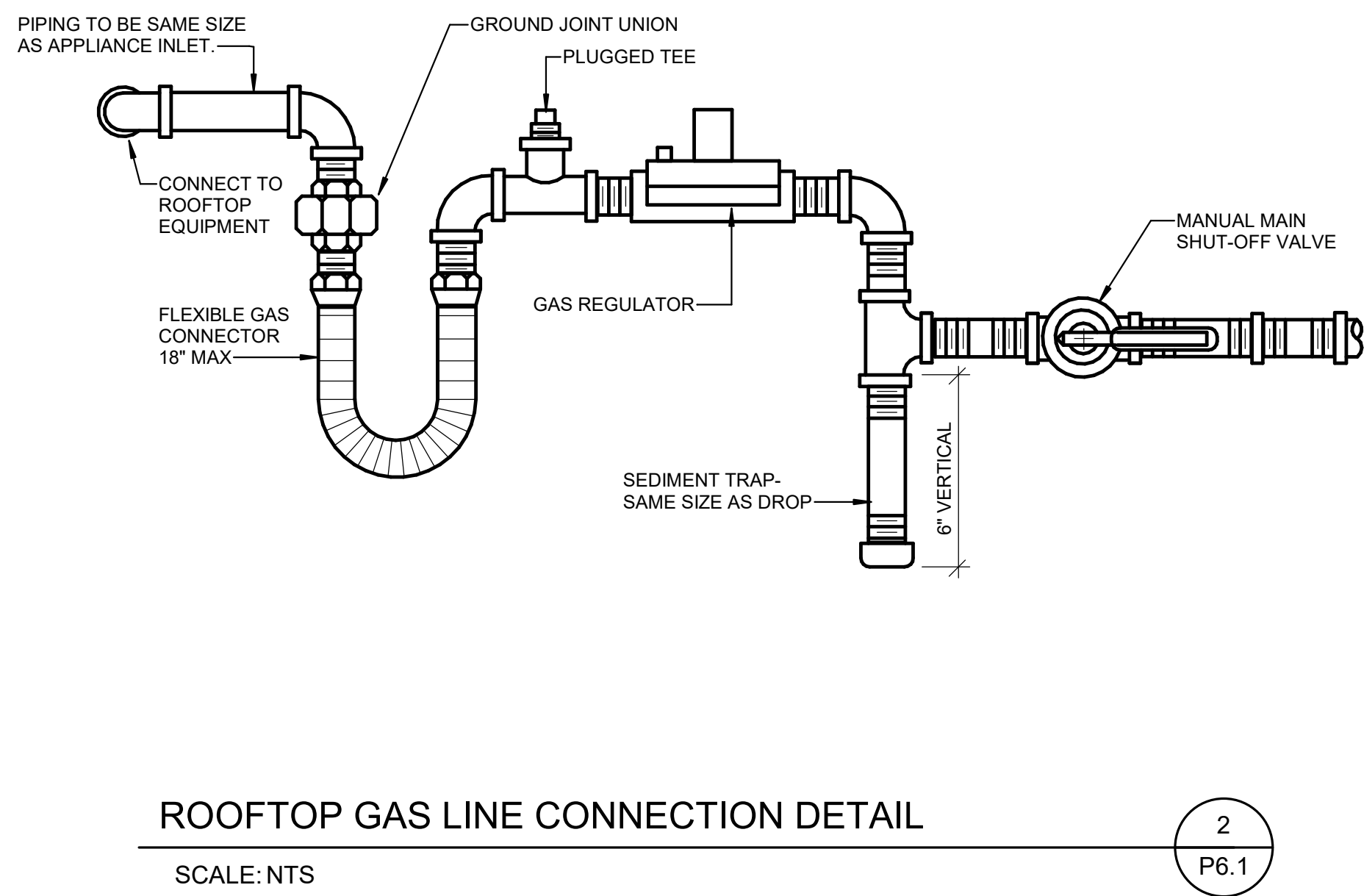
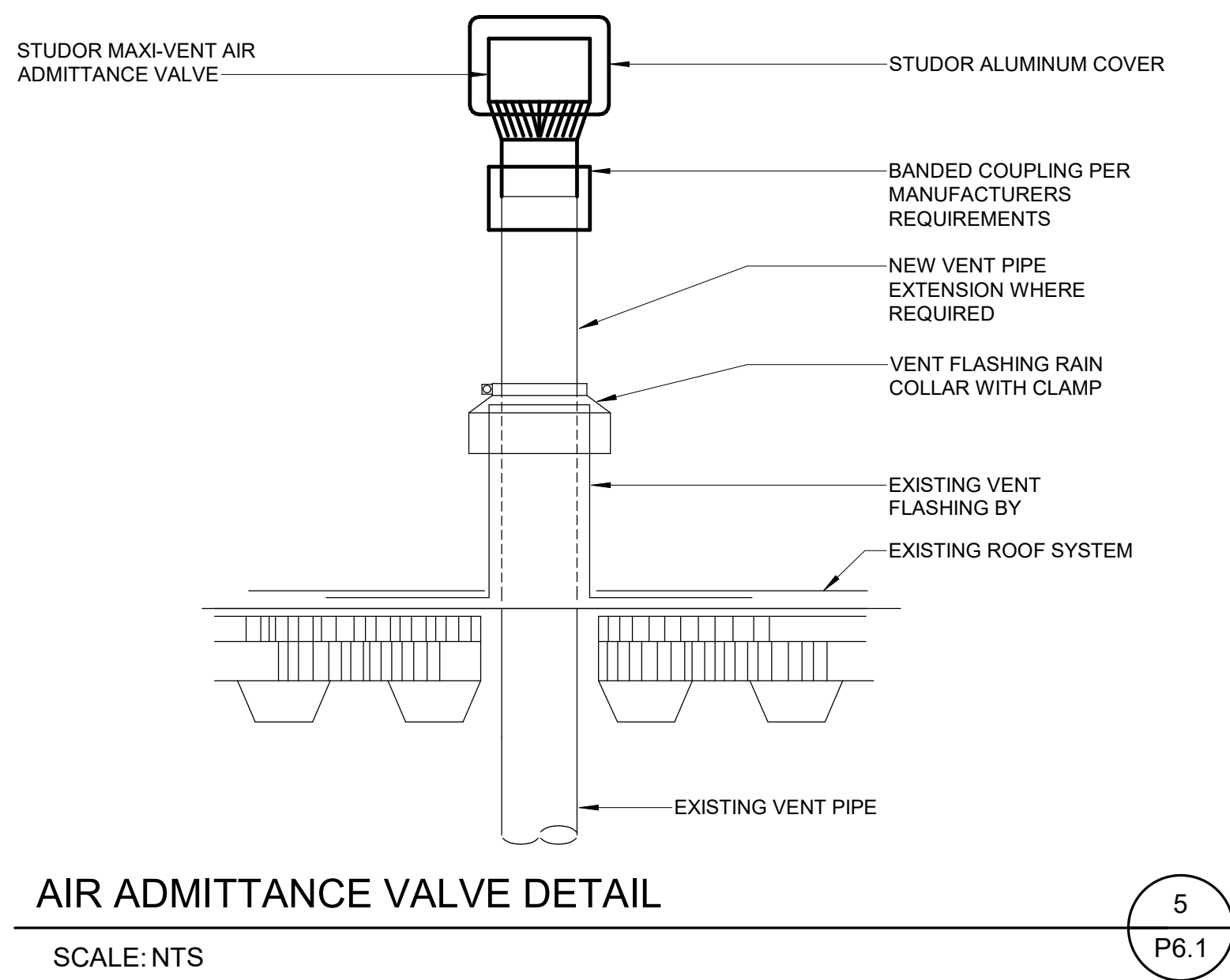
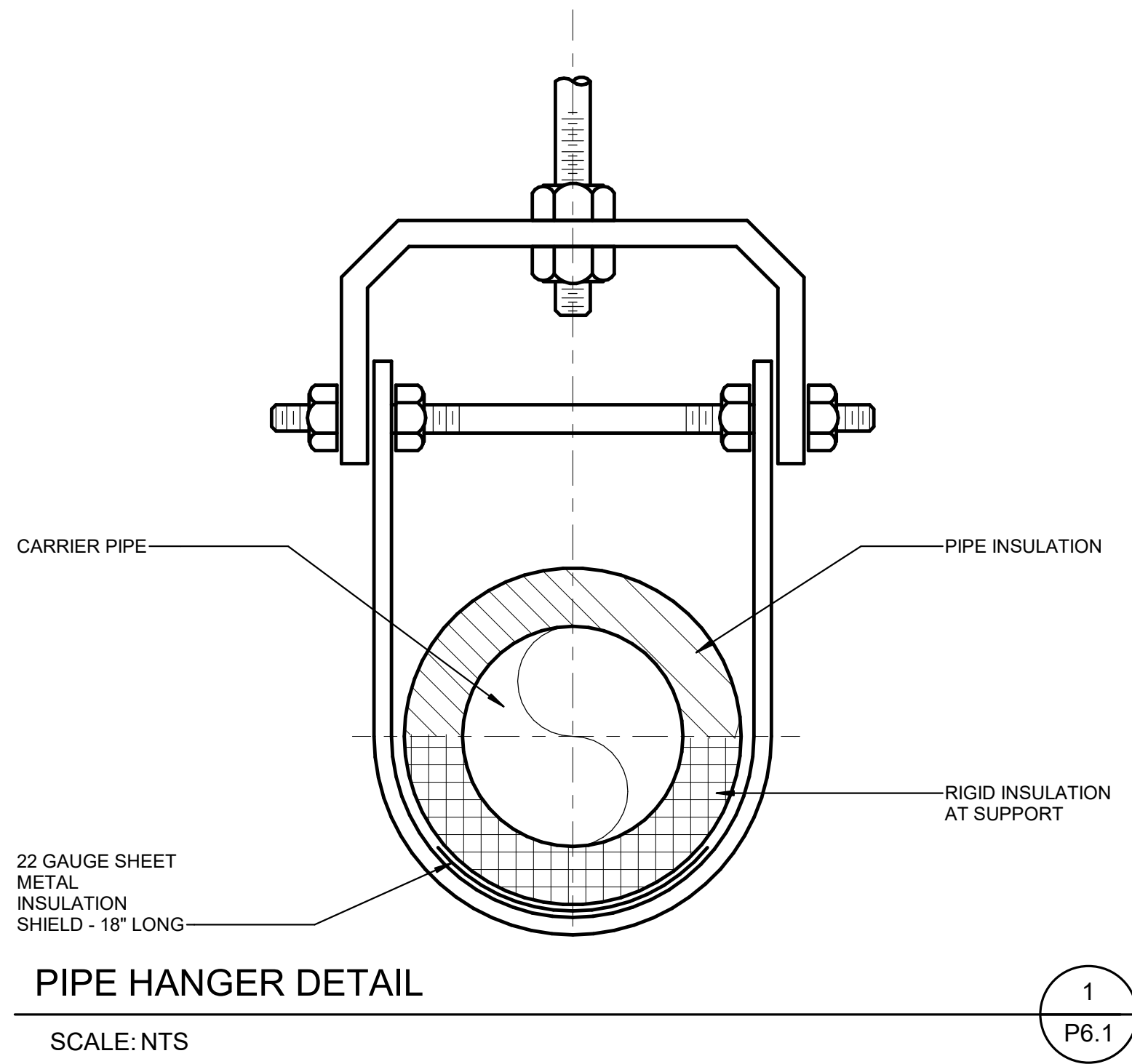
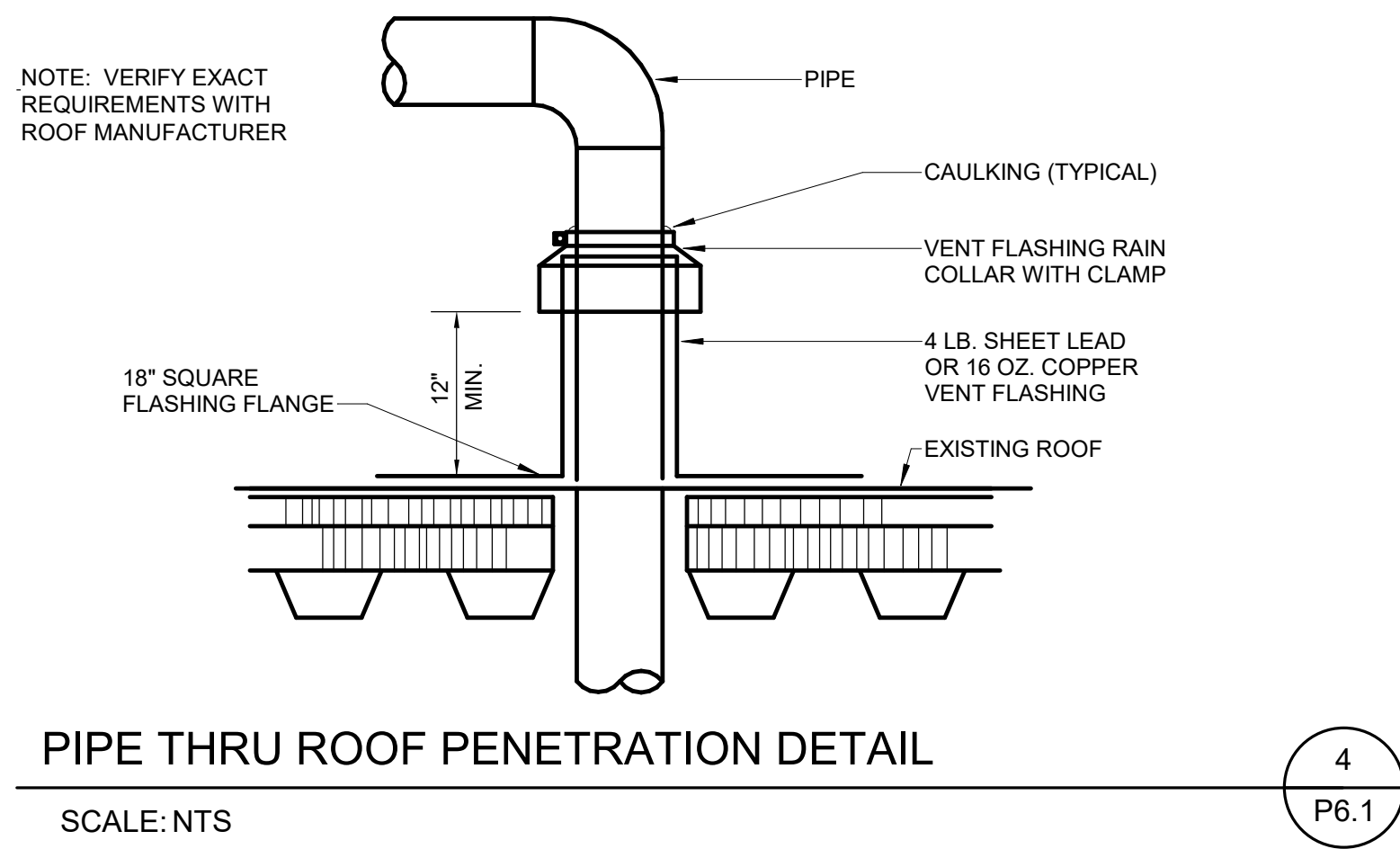


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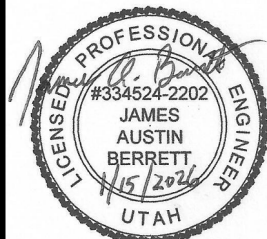
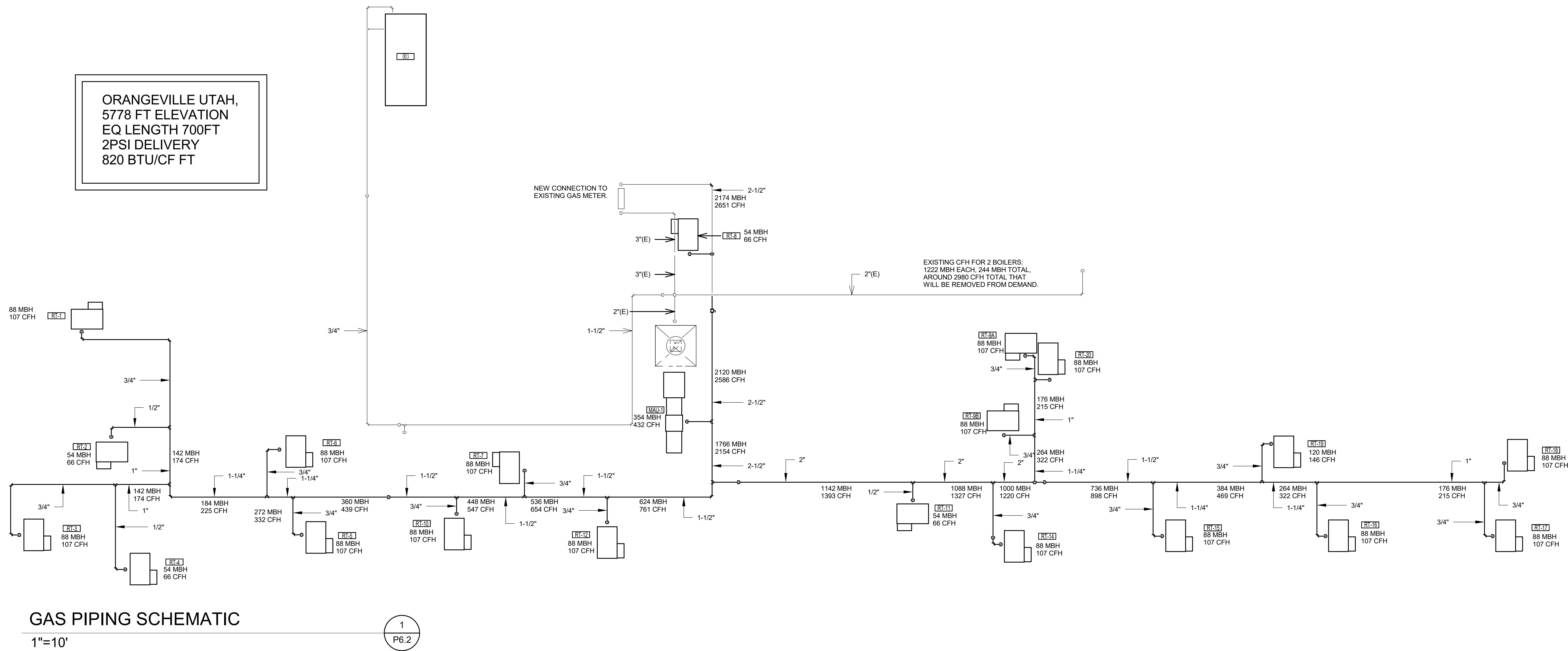
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12" = 10'



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**COTTONWOOD ELEMENTARY**  
155 EAST 200 SOUTH  
MECHANICAL UPGRADE  
ORANGEVILLE, UTAH

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P6.2

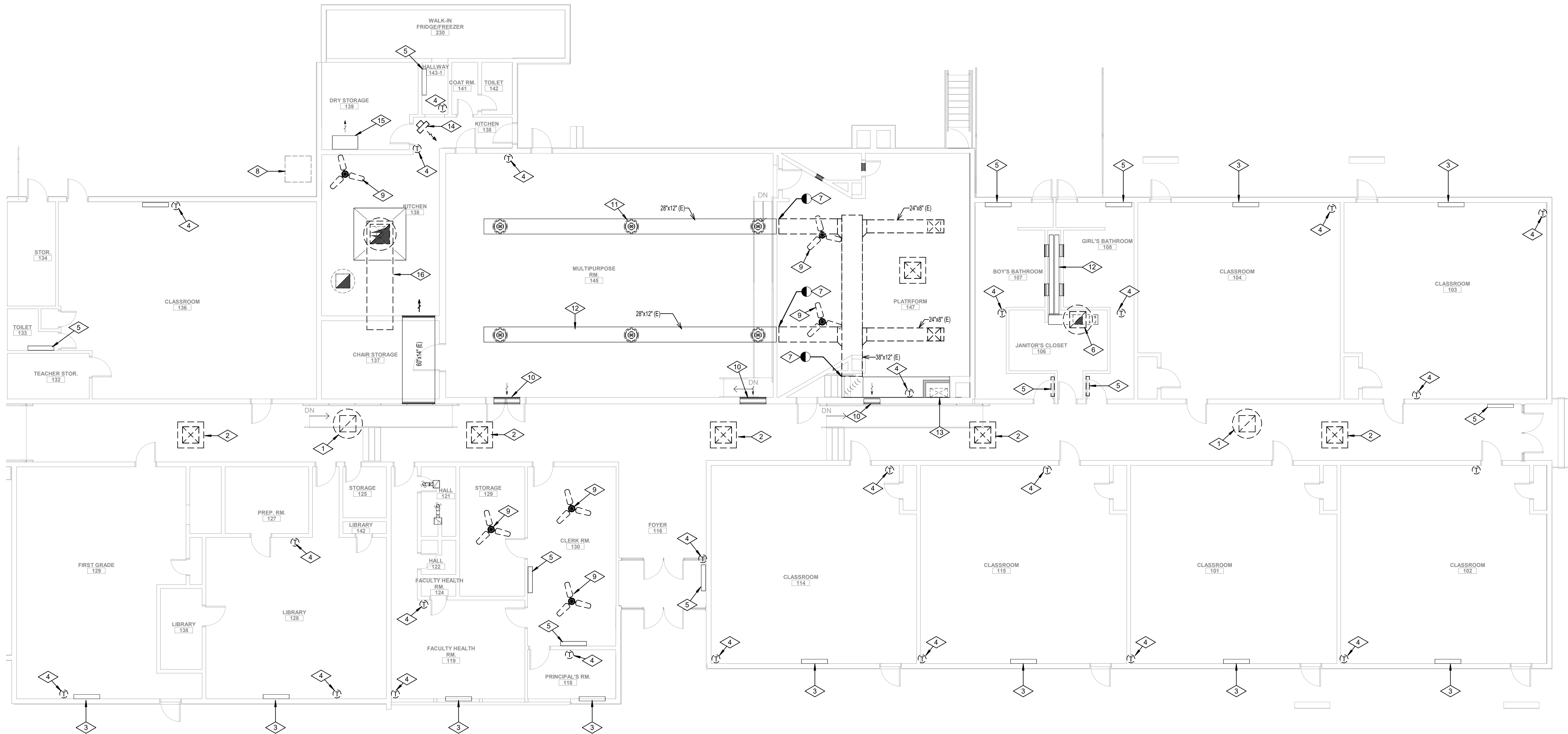


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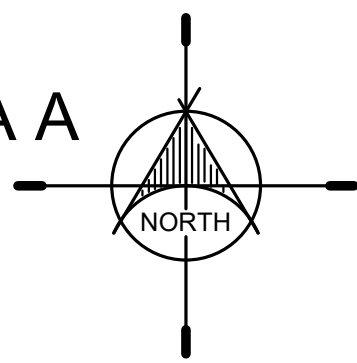
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As Noted



MECHANICAL DEMOLITION FLOOR PLAN AREA A

0 4' - 0" 8' - 0" 16' - 0"  
SCALE: 1/8" = 1'-0"



REFERENCE NOTES

- 1 REMOVE EXISTING RELIEF FAN COMPLETE, PATCH AND REPAIR ROOF.
- 2 REMOVE EXISTING EVAPORATIVE UNIT, DUCT AND DIFFUSER COMPLETE, PATCH AND REPAIR ROOF AND T-GRID CEILING.
- 3 EXISTING UNIT CONVECTORS TO BE ABANDONED IN PLACE.
- 4 REMOVE EXISTING THERMOSTAT COMPLETE. REMOVE ANY WIRE MOULDING (TYP).
- 5 EXISTING CONVECTOR TO BE ABANDONED IN PLACE.
- 6 REMOVE EXISTING EXHAUST FAN COMPLETE. SEE NEW WORK FOR REPLACEMENT.
- 7 REMOVE EXISTING DUCT WORK TO APPROXIMATELY THIS LOCATION. EXISTING LOCATIONS AND SIZES ARE APPROXIMATE.
- 8 EXISTING EVAPORATIVE UNIT TO BE ABANDONED IN PLACE.
- 9 REMOVE EXISTING CEILING FAN COMPLETE AND REPAIR CEILING. SCHOOL DISTRICT TO HAVE FIRST SALVAGE RIGHTS.
- 10 ABANDON RELIEF VENTS IN PLACE (TYP).
- 11 EXISTING DIFFUSERS TO REMAIN (TYP).
- 12 EXISTING DUCTWORK TO REMAIN (TYP).
- 13 EXISTING DUCTWORK DROPS TO BOILER ROOM BELOW. CAP DUCTWORK AND ABANDON IN PLACE.
- 14 REMOVE EXISTING UNIT HEATER AND PIPING. COORDINATE DEMOLITION WITH SCHOOL DISTRICT.
- 15 ABANDON EXISTING CABINET UNIT HEATER.
- 16 REMOVE EXISTING MAKE UP AIR UNIT AND KITCHEN EXHAUST FAN.

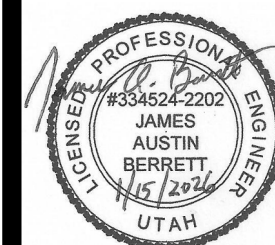
KEY PLAN



PROJECT TITLE  
EMERY SCHOOL DISTRICT  
**COTTONWOOD ELEMENTARY**  
155 EAST 200 SOUTH  
MECHANICAL UPGRADE  
ORANGEVILLE, UTAH

DRAWN BY: STAFF  
CHECKED BY: M.T.  
DATE: JAN 2026  
PROJECT #: 176525

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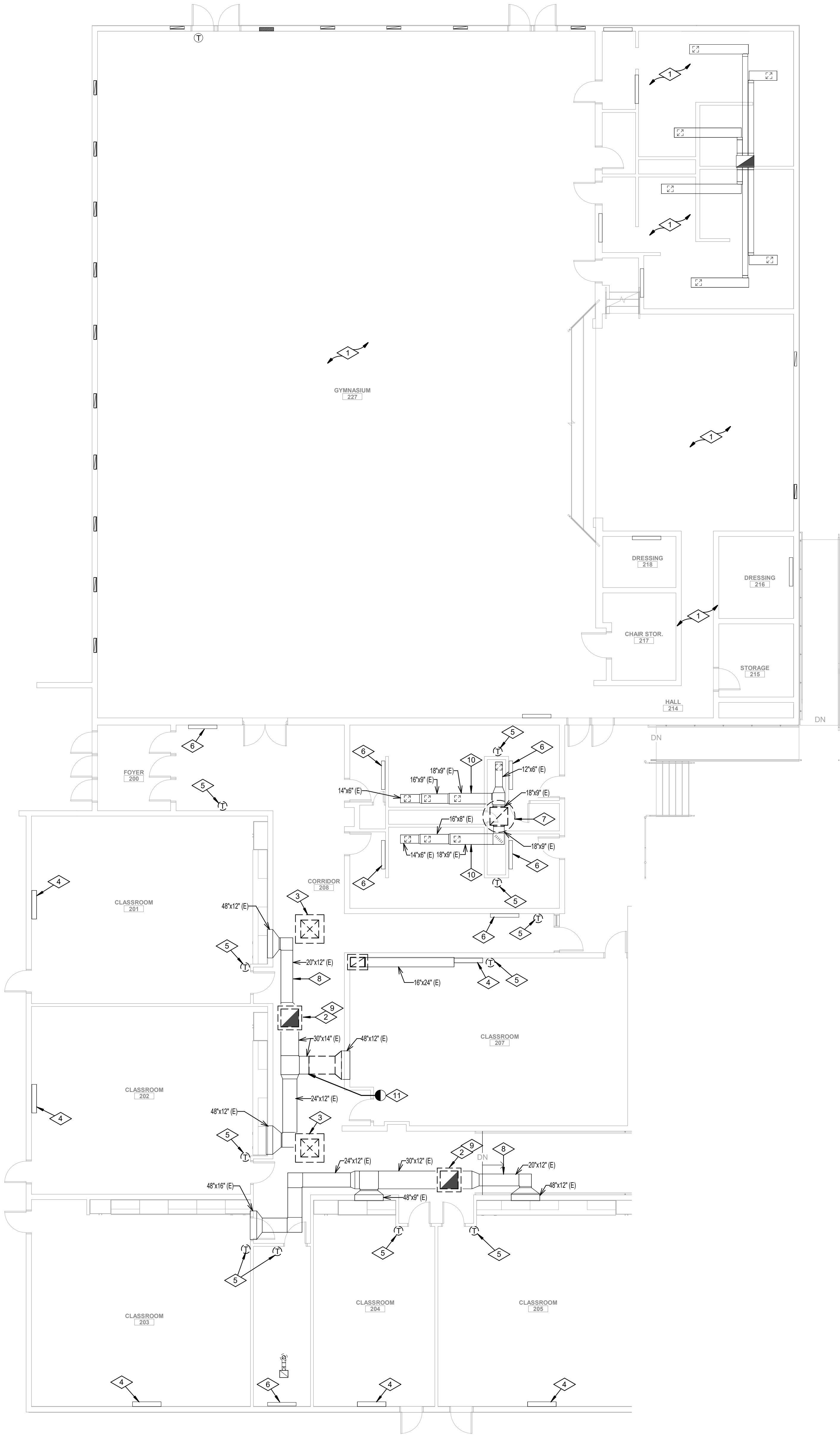


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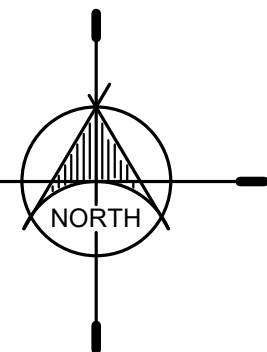
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MECHANICAL DEMOLITION FLOOR PLAN AREA B

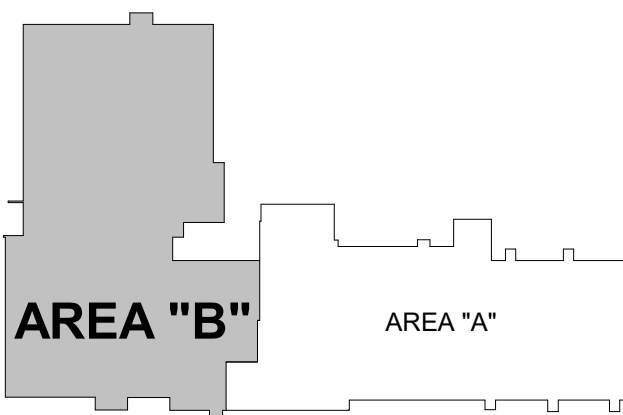
0 4' - 0" 8' - 0" 16' - 0"  
SCALE: 1/8" = 1'-0"



REFERENCE NOTES

- 1 NO WORK IN THIS AREA (TYP).
- 2 REMOVE EXISTING RELIEF HOOD COMPLETE. PATCH AND REPAIR ROOF.
- 3 REMOVE EXISTING EVAPORATIVE UNIT, DUCT AND DIFFUSER COMPLETE. PATCH AND REPAIR ROOF AND T-GRID CEILING.
- 4 EXISTING UNIT CONVECTORS TO BE ABANDONED IN PLACE.
- 5 REMOVE EXISTING THERMOSTAT COMPLETE (TYPICAL).
- 6 EXISTING CONVECTOR TO BE ABANDONED IN PLACE.
- 7 REMOVE EXISTING EXHAUST FAN COMPLETE.
- 8 ABANDON EXISTING DUCTWORK IN PLACE (TYP).
- 9 CAP DUCTWORK BELOW ROOF.
- 10 EXISTING DUCTWORK TO REMAIN (TYPICAL).
- 11 REMOVE EXISTING DUCTWORK TO APPROXIMATELY THIS LOCATION.

KEY PLAN



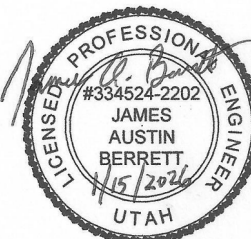
PROJECT TITLE

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**COTTONWOOD ELEMENTARY**  
155 EAST 200 SOUTH MECHANICAL UPGRADE ORANGEVILLE, UTAH

DRAWN BY: STAFF  
CHECKED BY: M.T.  
DATE: JAN 2026  
PROJECT #: 176525

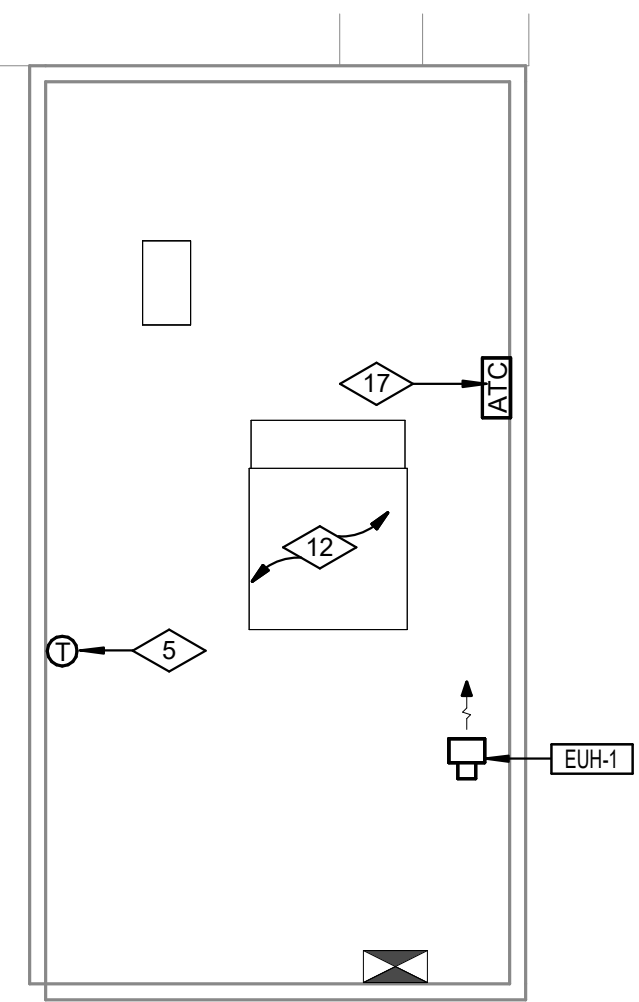
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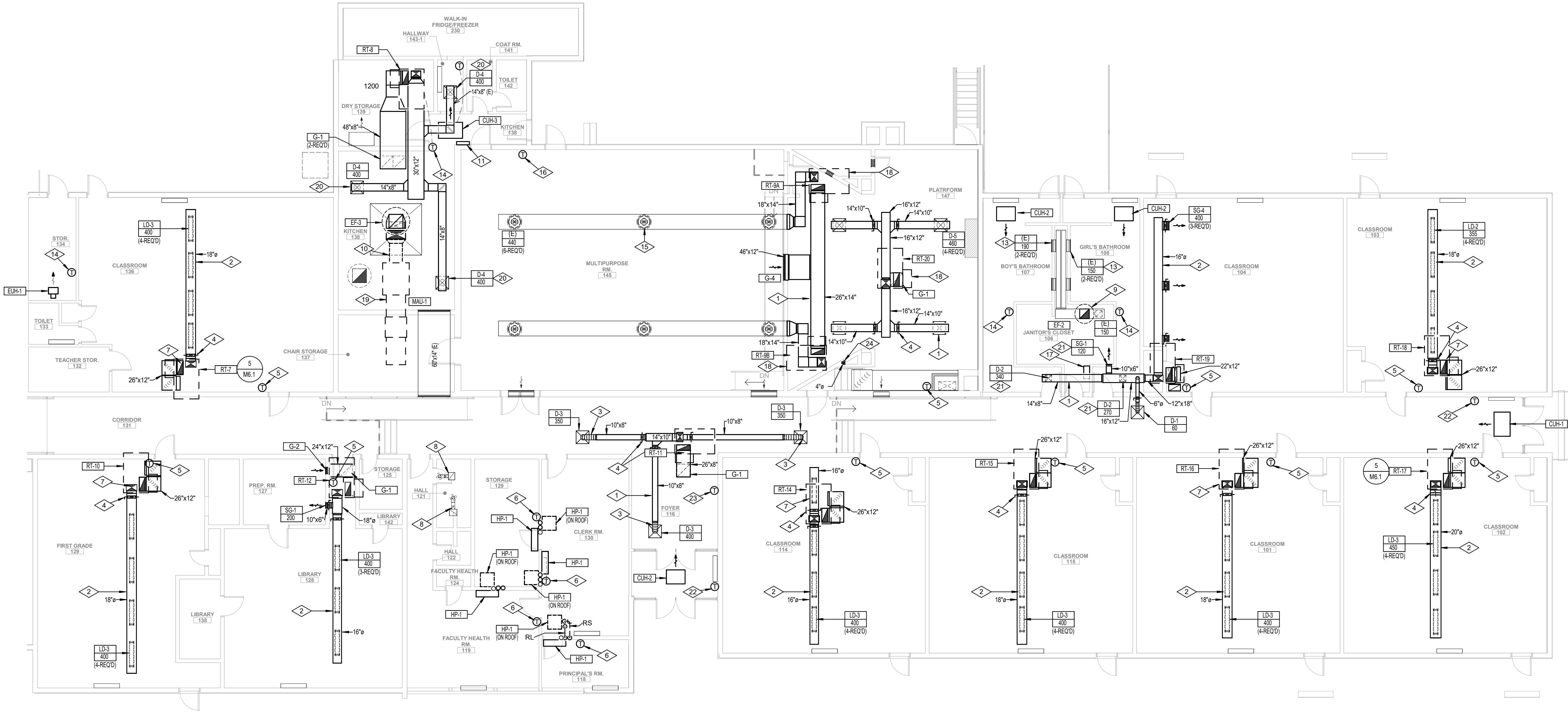
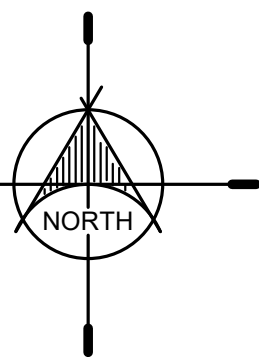
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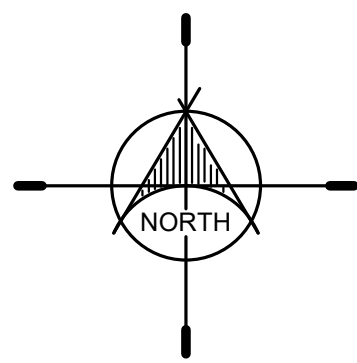
MECHANICAL BASEMENT PLAN

0 4' - 0" 8' - 0" 16' - 0"  
SCALE: 1/8" = 1'-0"



MECHANICAL FLOOR PLAN AREA A

0 4' - 0" 8' - 0" 16' - 0"  
SCALE: 1/8" = 1'-0"



REFERENCE NOTES

- DUCTWORK TO RUN AS HIGH AS POSSIBLE ABOVE CEILING. COORDINATE ROUTING WITH ALL TRADES (NOTE CEILING SPACE IS 12" OR LESS BELOW JOISTS) (TYPICAL).
- DUCTWORK TO RUN EXPOSED BETWEEN BEAM AND OFFSET FOR LIGHTING. (TYPICAL)
- FLEXIBLE DUCT WORK. MAXIMUM LENGTH 5'-0" (TYPICAL)
- MANUAL VOLUME BALANCING DAMPER. (TYPICAL)
- WALL MOUNTED HEATING/COOLING THERMOSTAT (TYPICAL)
- WALL MOUNTED HARD WIRED, HEATING/COOLING THERMOSTAT TO CONTROL HP-1.
- SUPPLY AND RETURN DUCT DOWN THRU ROOF FROM ROOFTOP UNIT. COORDINATE EXACT LOCATION WITH STRUCTURE AND UNIT PROVIDED.
- EXISTING CEILING EXHAUST FAN TO SWITCH WITH LIGHTS.
- CONNECT NEW EXHAUST FAN TO EXISTING CURB AND DUCTWORK WITH AN ADAPTOR CURB.
- DUCTWORK TO RUN ON ROOF AND DROP TO EXISTING CURB AND HOOD BELOW. COORDINATE WITH EXISTING CONNECTIONS.
- NEW MAU-1 CONTROLS.
- NO DEMOLITION WORK IN THIS AREA, ABANDON EXISTING AIR HANDLER, DUCTWORK, BOILER, MECHANICAL PIPING, ETC IN PLACE.
- REBALANCE EXISTING GRILLE TO CFM SHOWN (TYP).
- NEW WALL MOUNTED HEATING THERMOSTAT.
- REBALANCE EXISTING DIFFUSER TO CFM SHOWN (TYP).
- NEW WALL MOUNTED HEATING/COOLING THERMOSTAT TO SERVE RT-9A AND RT-9B. RT-9B TO RUN ONLY WHEN RT-9A CANNOT MANAGE THE LOAD.
- NEW ATC PANEL, PROVIDE 120V/60 POWER.
- KEEP ROOFTOP AIR INTAKES AT LEAST 10' AWAY FROM MECHANICAL EXHAUST.
- CONNECT NEW MAU TO EXISTING WATER AND DRAIN FROM EXISTING UNIT.
- BALANCING DAMPER TO BE ACCESSIBLE FROM FACE OF DIFFUSER. USE PRICE VCR 9 OR EQUIVALENT.
- OPPOSED BLADE DAMPER TO BE ACCESSIBLE FROM FACE OF DIFFUSER OR GRILLE.
- NEW WALL MOUNTED HEATING THERMOSTAT. PROVIDE WIREMOLD FOR CONTROL WIRE SERVING THERMOSTAT ON BLOCK WALL (TYP).
- NEW WALL MOUNTED HEATING/COOLING THERMOSTAT. PROVIDE WIREMOLD FOR CONTROL WIRE SERVING THERMOSTAT ON BLOCK WALL (TYP).
- EXTEND FLUE A MINIMUM OF 2'-0" ABOVE OUTSIDE AIR INTAKE ON RT-9B. PROVIDE WIRE SUPPORTS ANCHORED TO ROOF. FIELD VERIFY FLUE SIZE.

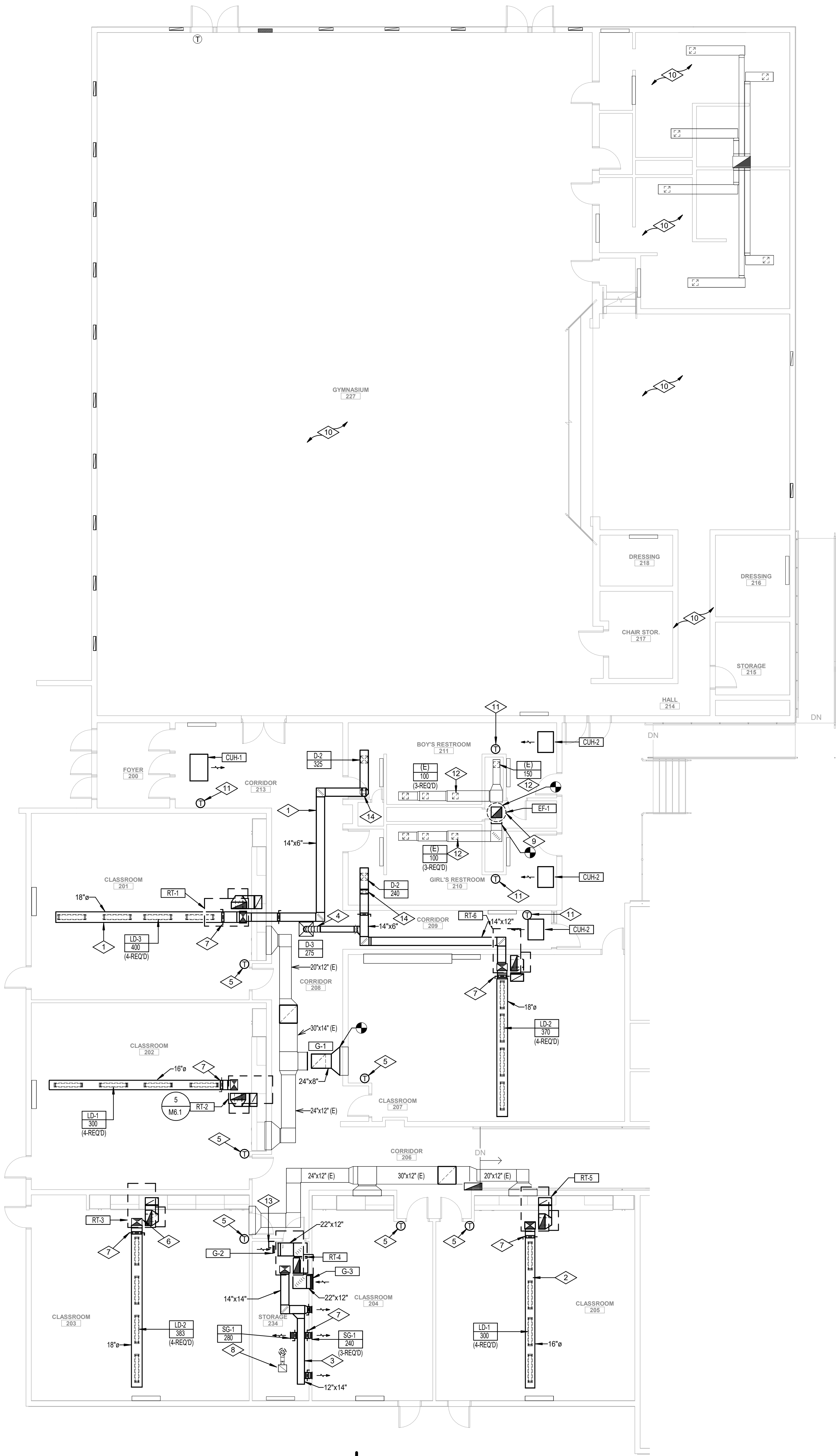
KEY PLAN



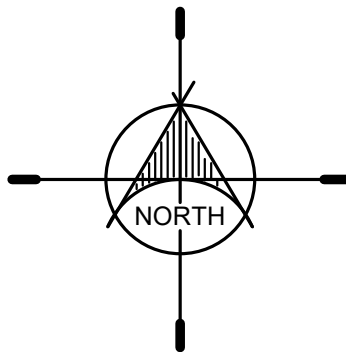


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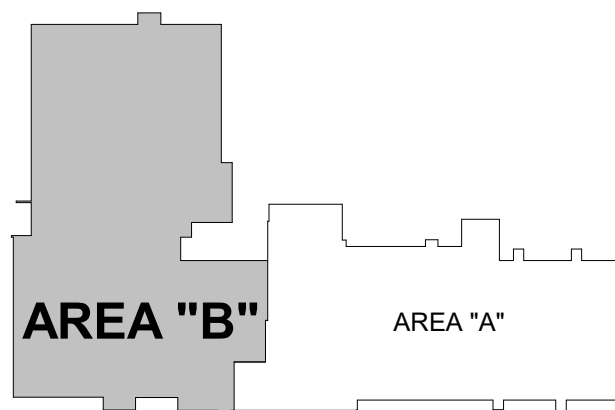
0 4' - 0" 8' - 0" 16' - 0"  
SCALE: 1/8" = 1'-0"



REFERENCE NOTES

- 1 DUCTWORK TO RUN AS HIGH AS POSSIBLE ABOVE CEILING. COORDINATE WITH ALL TRADES.
- 2 DUCTWORK TO RUN EXPOSED BETWEEN BEAM AND OFFSET FOR LIGHTING. (TYPICAL)
- 3 DUCTWORK TO RUN BELOW BEAM.
- 4 FLEXIBLE DUCT WORK. MAXIMUM LENGTH 5'-0" (TYPICAL)
- 5 WALL MOUNTED HEATING/COOLING THERMOSTAT (TYPICAL)
- 6 SUPPLY AND RETURN DUCT DOWN THRU ROOF FROM ROOFTOP UNIT. COORDINATE EXACT LOCATION WITH STRUCTURE AND UNIT PROVIDED.
- 7 MANUAL VOLUME BALANCING DAMPER. (TYPICAL)
- 8 EXISTING EXHAUST FAN TO REMAIN.
- 9 CONNECT NEW EXHAUST FAN TO EXISTING CURB AND DUCTWORK WITH AN ADAPTOR CURB.
- 10 NO WORK IN THIS AREA (TYP).
- 11 NEW WALL MOUNTED HEATING THERMOSTAT.
- 12 REBALANCE EXISTING GRILLE TO CFM SHOWN (TYP).
- 13 NEW ATC PANEL, PROVIDE 120V/60 POWER.
- 14 DUCT TO DROP BELOW EXISTING BEAM. STAY AS HIGH AS POSSIBLE ABOVE THE CEILING.

KEY PLAN

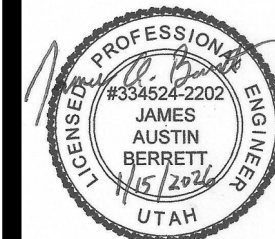


PROJECT TITLE

EMERY SCHOOL DISTRICT  
COTTONWOOD ELEMENTARY  
155 EAST 200 SOUTH  
MECHANICAL UPGRADE

ORANGEVILLE, UTAH

REVISIONS:



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M1.1B

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GAS FIRED / DX ROOF TOP UNIT SCHEDULE																	
SYMBOL	LOCATION	CFM	E.S.P	MIN. O.A. CFM	DX - COOLING CAPACITY			GAS - HEATING CAPACITY			POWER	MCA	MOCP	RT-SIZE	UNIT WTS. LBS	MAKE & MODEL	NOTES
					DX MBH	DX SENSIBLE MBH	DX EFFICIENCY	GAS MBH INPUT	GAS MBH OUTPUT	GAS EFFICIENCY							
RT-1	CLASSROOM 120 LL	1925	.5	750	53.9	41.7	13.40 SEER 2	88.0	70.4	80.0	208/3/60	31.0	45.0	74.4 L x46.6 W x 33.4 H	591	CARRIER 48FEEA06A2A5-8B0A0	
RT-2	CLASSROOM 120MM	1200	0.5	398	32.5	27.7	13.40 SEER 2	53.6	43.2	81.0	208/3/60	22.0	30.0	74.4 L x46.6 W x 33.4 H	517	CARRIER 48FEDA04A2A5-8B0A0	
RT-3	CLASSROOM 120NN	1535	0.5	401	47.0	37.7	13.40 SEER 2	88.0	70.4	80.0	208/3/60	26.0	30.0	74.4 L x46.6 W x 33.4 H	578	CARRIER 48FEEA05A2A5-8B0A0	
RT-4	CLASSROOM 120OO	1000	0.5	225	31.4	23.2	13.40 SEER 2	53.6	43.2	81.0	208/3/60	22.0	30.0	74.4 L x46.6 W x 33.4 H	517	CARRIER 48FEDA04A2A5-8B0A0	
RT-5	CLASSROOM 120PP	1200	0.5	389	32.6	37.6	13.40 SEER 2	88.0/65.6	70.4/52.0	80.0	208/3/60	22.0	30.0	74.4 L x46.6 W x 33.4 H	517	CARRIER 48FEEA04A2A5-8B0A0	
RT-6	CLASSROOM 120XX	1990	0.5	715	53.9	41.7	13.40 SEER 2	88.0	70.4	80.0	208/3/60	31.0	45.0	74.4 L x46.6 W x 33.4 H	591	CARRIER 48FEEA06A2A5-8B0A0	
RT-7	KINDERGARTEN	1600	0.5	409	47.6	38.6	13.40 SEER 2	88.0	70.4	80.0	208/3/60	26.0	30.0	74.4 L x46.6 W x 33.4 H	578	CARRIER 48FEEA05A2A5-8B0A0	
RT-8	KITCHEN	1200	0.5	131	33.2	23.4	13.40 SEER 2	53.6	43.2	81.0	208/3/60	22.0	30.0	74.4 L x46.6 W x 33.4 H	517	CARRIER 48FEDA04A2A5-8B0A0	
RT-9A	CAFETERIA	1400	0.5	625	45.9	36.7	13.40 SEER 2	88.0	70.4	80.0	208/3/60	26.0	30.0	74.4 L x46.6 W x 33.4 H	578	CARRIER 48FEEA05A2A5-8B0A0	
RT-9B	CAFETERIA	1400	0.5	625	45.9	36.7	13.40 SEER 2	88.0	70.4	80.0	208/3/60	26.0	30.0	74.4 L x46.6 W x 33.4 H	578	CARRIER 48FEEA05A2A5-8B0A0	
RT-10	CLASSROOM 120YY	1600	0.5	413	47.6	38.7	13.40 SEER 2	88.0	70.4	80.0	208/3/60	26.0	30.0	74.4 L x46.6 W x 33.4 H	578	CARRIER 48FEEA05A2A5-8B0A0	
RT-11	CORRIDOR MAIN FLOOR	1100	0.5	192	32.3	23.5	13.40 SEER 2	53.6	43.2	81.0	208/3/60	22.0	30.0	74.4 L x46.6 W x 33.4 H	517	CARRIER 48FEDA04A2A5-8B0A0	
RT-12	LIBRARY	1400	0.5	421	45.9	36.7	13.40 SEER 2	88.0	70.4	80.0	208/3/60	26.0	30.0	74.4 L x46.6 W x 33.4 H	578	CARRIER 48FEEA05A2A5-8B0A0	
RT-14	CLASSROOM 1	1600	0.5	411	47.6	38.64	13.40 SEER 2	88.0	70.4	80.0	208/3/60	26.0	30.0	74.4 L x46.6 W x 33.4 H	578	CARRIER 48FEEA05A2A5-8B0A0	
RT-15	CLASSROOM 2	1600	0.5	413	53.9	41.7	13.40 SEER 2	88.0	70.4	80.0	208/3/60	31.0	45.0	74.4 L x46.6 W x 33.4 H	591	CARRIER 48FEEA06A2A5-8B0A0	
RT-16	CLASSROOM 120SS	1600	0.5	415	47.6	38.7	13.40 SEER 2	88.0	70.4	80.0	208/3/60	26.0	30.0	74.4 L x46.6 W x 33.4 H	578	CARRIER 48FEEA05A2A5-8B0A0	
RT-17	CLASSROOM 4	1800	0.5	414	47.6	38.7	13.40 SEER 2	88.0	70.4	80.0	208/3/60	26.0	30.0	74.4 L x46.6 W x 33.4 H	578	CARRIER 48FEEA05A2A5-8B0A0	
RT-18	CLASSROOM 6	1420	0.5	412	46.1	36.8	13.40 SEER 2	88.0	70.4	80.0	208/3/60	26.0	30.0	74.4 L x46.6 W x 33.4 H	578	CARRIER 48FEEA05A2A5-8B0A0	
RT-19	CORRIDOR AND RR LOWER LVL	1990	0.5	825	58.9	52.1	13.40 SEER 2	120.0/96.0	96.0/76.8	80.0	208/3/60	29.0	40.0	74.4 L x46.6 W x 33.4 H	630	CARRIER 48FEFA06B3A5-8B1C0	
RT-20	COMPUTER LAB	1850	0.5	421	53.9	41.7	13.40 SEER 2	88.0	70.4	80.0	208/3/60	31.0	45.0	74.4 L x46.6 W x 33.4 H	591	CARRIER 48FEEA06A2A5-8B0A0	

- NOTES:
- (1) ROOFTOP UNIT TO BE COMPLETE WITH HINGED ACCESS DOORS, 100% OUTDOOR AIR ECONOMIZER PACKAGE WITH BUILT-IN 100% RELIEF AIR, 18" HIGH FACTORY ROOF CURB OR AS REQUIRED FOR 12" MIN ABOVE FINISHED ROOF, UNPOWERED WEATHERPROOF GFI CONVENIENCE OUTLET AND ALL CONTROLS FOR AUTOMATIC OPERATION. UNIT SHALL BE U.L. LISTED, ARI CERTIFIED AND AGA APPROVED. DOWN DISCHARGE.
- (2) COOLING CAPACITY BASEDON 55°F COOLING SUPPLY TEMPERATURE, 75°F INDOOR AIR TEMPERATURE, 91°F DB AND 60°F WB OUTDOOR AIR TEMP, HEATING BASED ON 5°F.
- (3) UNITS SHALL BE COMPLETE WITH 2" MERV 8 FILTERS, ABLE TO UPGRADE TO MERV 13 WITH NO CHANGES TO FILTER RACK.
- (4) CAPACITIES BASED ON 5675 FT. ELEVATION.
- (5) UNITS SHALL USE R-454B.
- (6) ROOFTOP UNITS TO COME FROM THE FACTORY BACNET COMPATIBLE, UNITS TO CONNECT TO EXISTING DELTA CONTROLS SYSTEM, SEE SPECIFICATIONS.

MAKE-UP AIR UNIT SCHEDULE														
SYMBOL	LOCATION	CFM	E.S.P	EVAP SECTION	FLOW CONFIG.	NATURAL GAS - HEATING CAPACITY			POWER	MCA	MOP	H.P.	MAKE & MODEL	NOTES
						GAS MBH INPUT	GAS MBH OUTPUT	GAS EFFICIENCY						
MAU-1	KITCHEN	5400	.5	YES	SIDE	353.3	325.0	92	208/3/60	27.6	45	7.5	ECON-AIR EA3-D-500-24D	(1)(2)

- NOTES:
- (1) SINGLE POINT POWER CONNECTION WITH STEP DOWN TRANSFORMER FOR EVAP. SECTION. WALL CONTROL PANEL, INLET HOOD, AND 18" FACTORY CURB.
- (2) PROVIDE UNPOWERED CONVENIENCE OUTLET.
- (3) CAPACITIES BASED ON 5675 FT. ELEVATION.

CABINET UNIT HEATER											
SYMBOL	LOCATION	MOUNTING	CFM	HEATING M.B.H	AMPS	POWER	CUSTOM UNIT HEIGHT	CUSTOM UNIT LENGTH	CUSTOM UNIT WIDTH	MAKE & MODEL	NOTES
CUH-1	VESTIBULE	CEILING	1000	20.4	18	208/3/60	0' - 10"	3' - 9"	2' - 6"	QMARK CU945	(1)(2)(3)(4)
CUH-2	RR & CORR.	CEILING	250	6.8	6	208/3/60	0' - 9 3/4"	2' - 11"	2' - 2 3/8"	QMARK CU935	(1)(2)(3)(4)
CUH-3	KITCHEN	CEILING	1000	34.1	29	208/3/60	0' - 10"	3' - 9"	2' - 6"	QMARK CU945	(1)(2)(3)(4)

- NOTES:
- (1) PROVIDE FRAME FOR CEILING MOUNTING IN GYP BOARD CEILING OR T-BAR CEILING.
- (2) PROVIDE SUPPORTS FROM STRUCTURE.
- (3) CONTROLLED WITH DDC HEATING ONLY THERMOSTAT.
- (4) UNITS SHALL HAVE BRIGHT-WHITE FINISH.

EXHAUST FAN SCHEDULE									
SYMBOL	LOCATION	TYPE	CFM	E.S.P	MOTOR	DRIVE	UNIT WTS. LBS	MAKE & MODEL	NOTES
EF-1	BATHROOM	ROOF MOUNTED	750	0.5	.25 HP 115/1/60	BELT	30	COOK 100 ACEB	(1)(2)
EF-2	BATHROOM	ROOF MOUNTED	825	0.5	.25 HP 115/1/60	BELT	30	COOK 100 ACEB	(1)(2)
EF-3	KITCHEN	UPBLAST	5400	0.5	.75 HP 115/1/60	BELT	350	TWIN CITY BCRUR 300B	

- NOTES:
- (1) EXHAUST FAN TO BE ROOF-MOUNTED DOWN BLAST, COMPLETE WITH SPUN ALUMINUM HOOD, BIRDSCREEN, DISCONNECT SWITCH UNDER HOOD.
- (2) FACTORY PREFAB CURB AND BACKDRAFT DAMPER. SEE DETAIL 10MM-1.
- (3) EXHAUST FAN SHALL BE COMPLETE WITH 18" HIGH FACTORY PRE-FAB ROOF CURB.
- (4) PROVIDE GREASE CUP, HINGED BASE, AND FACTORY DISCONNECT. RE-USE EXISTING CURB IF POSSIBLE.

ELECTRIC UNIT HEATER								
SYMBOL	LOCATION	MOUNTING	CFM	HEATING M.B.H	AMPS	POWER	MAKE & MODEL	NOTES
EUH-1	STOR. & MECH.	CEILING	700	19.2	16.2	208/3/60	MARKEL HF2B5107CA1L	(1)

- NOTES:
- (1) PROVIDE MOUNTING BRACKET, DISCONNECT, SUMMER FAN SWITCH AND DDC HEATING ONLY THERMOSTAT.

DIFFUSER SCHEDULE						
SYMBOL	TYPE	SIZE	LOCATION	AIR PATTERN	MAKE & MODEL	NOTES (1)
D-1	SUPPLY	6"ø	CEILING	4-WAY	PRICE - SMD	(2)
D-2	SUPPLY	12"x12"	CEILING	3-WAY	PRICE - SMD	(3)
D-3	SUPPLY	10"ø	CEILING	4-WAY	PRICE - SMD	(2)
D-4	SUPPLY	12"ø	CEILING	4-WAY	PRICE - SMD	(2)
D-5	SUPPLY	14"ø	CEILING	4-WAY	PRICE - SMD	(2)

- NOTES:
- (1) DIFFUSER TO HAVE A BRIGHT-WHITE FINISH
- (2) DIFFUSER SHALL BE A LOUVERED TYPE WITH A 24"x24" MODULE FOR T-BAR CEILING OR FRAME FOR GYP BOARD CEILING
- (3) INSTALLATION. FACTORY PROVIDED SQUARE TO ROUND ADAPTOR.
- (4) DIFFUSER SHALL BE A LOUVERED TYPE WITH A 12"x12" MODULE FOR T-BAR CEILING OR FRAME FOR GYP BOARD CEILING.

LINEAR DIFFUSER SCHEDULE						
SYMBOL	TYPE	NUMBER OF SLOTS	SIZE	AIR PATTERN	MAKE & MODEL	NOTES
LD-1	SUPPLY	3	5"x46"	2-WAY	PRICE - SDS100	(1)(2)(3)(4)
LD-2	SUPPLY	3	5"x46"	2-WAY	PRICE - SDS100	(1)(2)(3)(4)
LD-3	SUPPLY	4	7"x46"	2-WAY	PRICE - SDS100	(1)(2)(3)(4)

- NOTES:
- (1) PROVIDE FRAME SPIRAL DUCT MOUNTED FRAM, PRICE TYP 16.
- (2) INTEGRAL EQUALIZING GRID.
- (3) ADJUST DIFFUSER AIR FLOW TO BE AS HORIZONTAL AS POSSIBLE WITHOUT CAUSING EXISTING LIGHT FIXTURES TO SWAY.
- (4) ANODIZED ALUMINUM FINISH.

GRILLES SCHEDULE					
SYMBOL	TYPE	SIZE	LOCATION	MAKE & MODEL	NOTES (1)
G-1	RETURN	24"x24"	CEILING	PRICE 535	(2)
G-2	RETURN	12"x6"	SIDEWALL	PRICE 535	
G-3	RETURN	24"x12"	SIDEWALL	PRICE 535	
G-4	RETURN	48"x14"	SIDEWALL	PRICE 535	
SG-1	SUPPLY	10"x6"	DUCT MOUNTED	PRICE 520	(3)
SG-4	SUPPLY	16"x6"	DUCT MOUNTED	PRICE 520	(3)

- NOTES:
- (1) GRILLE SHALL HAVE BRIGHT WHITE FINISH.
- (2) PROVIDE FRAME FOR T-BAR CEILING OR GYP BOARD CEILING.
- (3) PROVIDE INTEGRAL OPPOSED BLADE DAMPER.

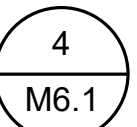
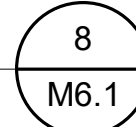
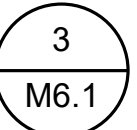
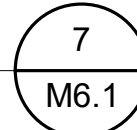
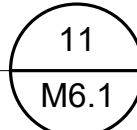
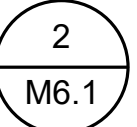
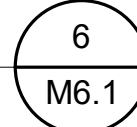
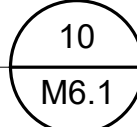
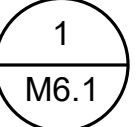
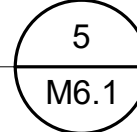
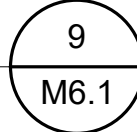
## MECHANICAL EQUIPMENT SCHEDULE

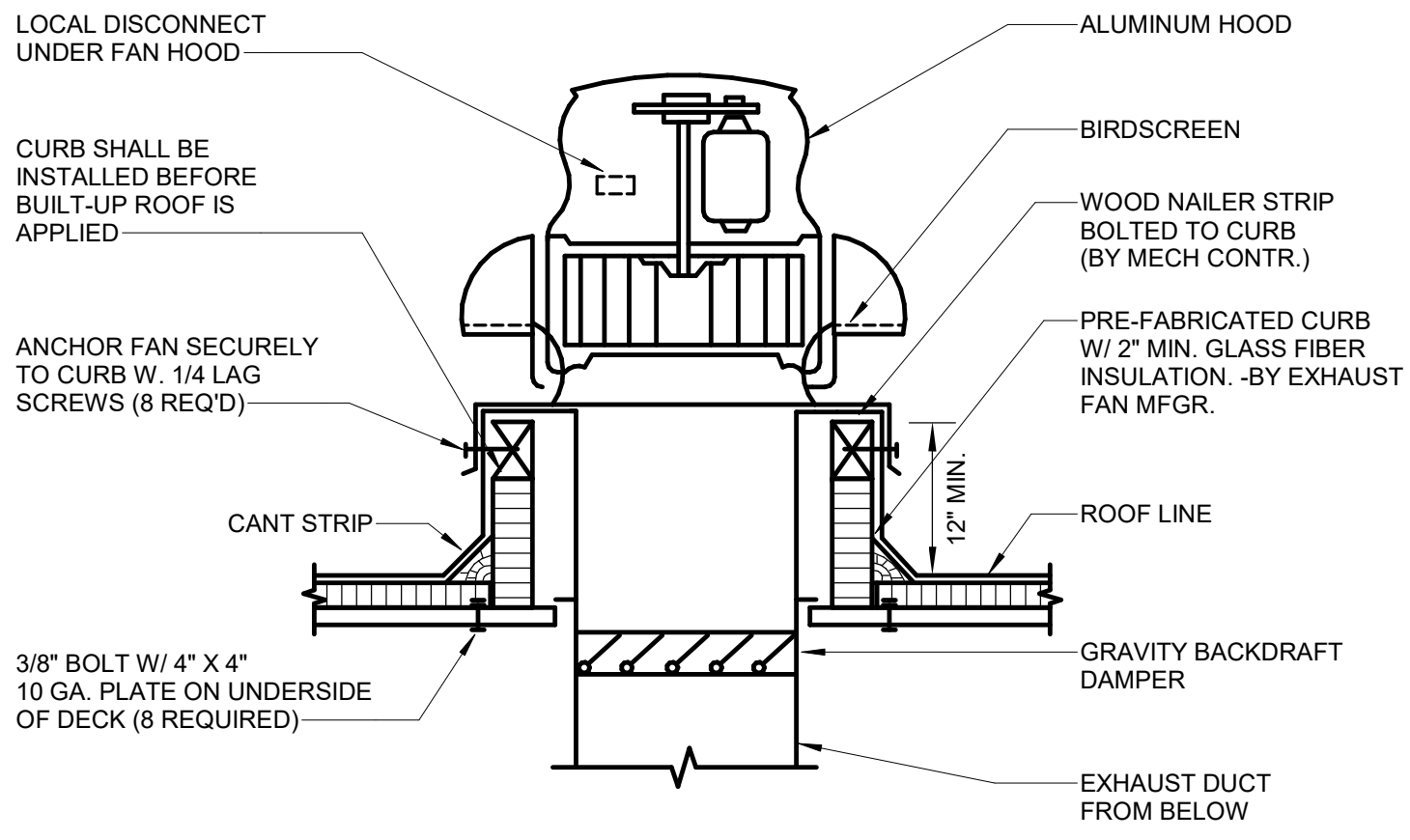
HP-1 INDOOR UNIT: HEAT PUMP, HIGH WALL MOUNTED, HORIZONTAL DISCHARGE, 441 CFM, 11,730 BTUH (INDOOR)  
TOTAL COOLING CAPACITY AT 95 DEG. F. O.A. TEMP. 80 DEG. F. DB/67 DEG. F. WB, INDOOR AIR, AND 10,428 BTUH HEATING CAPACITY AT 3 F. O.A. 70 F. INDOOR AIR. UNIT IS POWERED BY OUTDOOR UNIT. UNIT TO BE COMPLETE WITH CLEANABLE FILTER, CHECK & EXPANSION VALVE KIT, PRE-CHARGED LINE SET, DRIP PAN, INTEGRAL PUMP, AND DRAIN CONNECTION OUT BACK SIDE OF UNIT. PROVIDE WALL MOUNTED THERMOSTAT WITH NIGHT SET BACK. THERMOSTAT SHALL BE HARD WIRED TO UNIT

UNIT DIM: 8.86" L x 31.30" W x 11.61" H  
WEIGHT: 43.65 LBS  
MANUFACTURER: CARRIER  
MODEL: 45MAHAQ12XA3

HP-1 OUTDOOR UNIT: AIR COOLED, HORIZONTAL DISCHARGE, INVERTER COMPRESSOR. UNIT TO BE MOUNTED ON (ON ROOF)  
HOUSEKEEPING PAD, 11,730 BTUH TOTAL COOLING CAPACITY AT 95 DEG. F. O.A. TEMP. 80 DEG. F. DB/67 DEG. F. WB, 10,428 BTUH TOTAL HEATING CAPACITY AT 5 DEG. F. O.A. TEMP. MCA=15, 208/1/60, MOTOR TO BE UL LISTED. UNIT TO BE COMPLETE WITH CRANKCASE HEATER, AMBIENT CONTROL KIT TO 0 DEG. F., AND ALL CONTROLS FOR AUTOMATIC OPERATION. CONTRACTOR TO PROVIDE 4" HOUSE KEEPING PAD ABOVE GROUND LEVEL.

UNIT DIM: 12.95" L x 31.69" W x 21.81" H  
WEIGHT: 72.75 LBS  
SEER/EER: 25.5/13.5  
COP: 3.78  
MANUFACTURER: CARRIER  
MODEL: 37MAHAQ12AA3

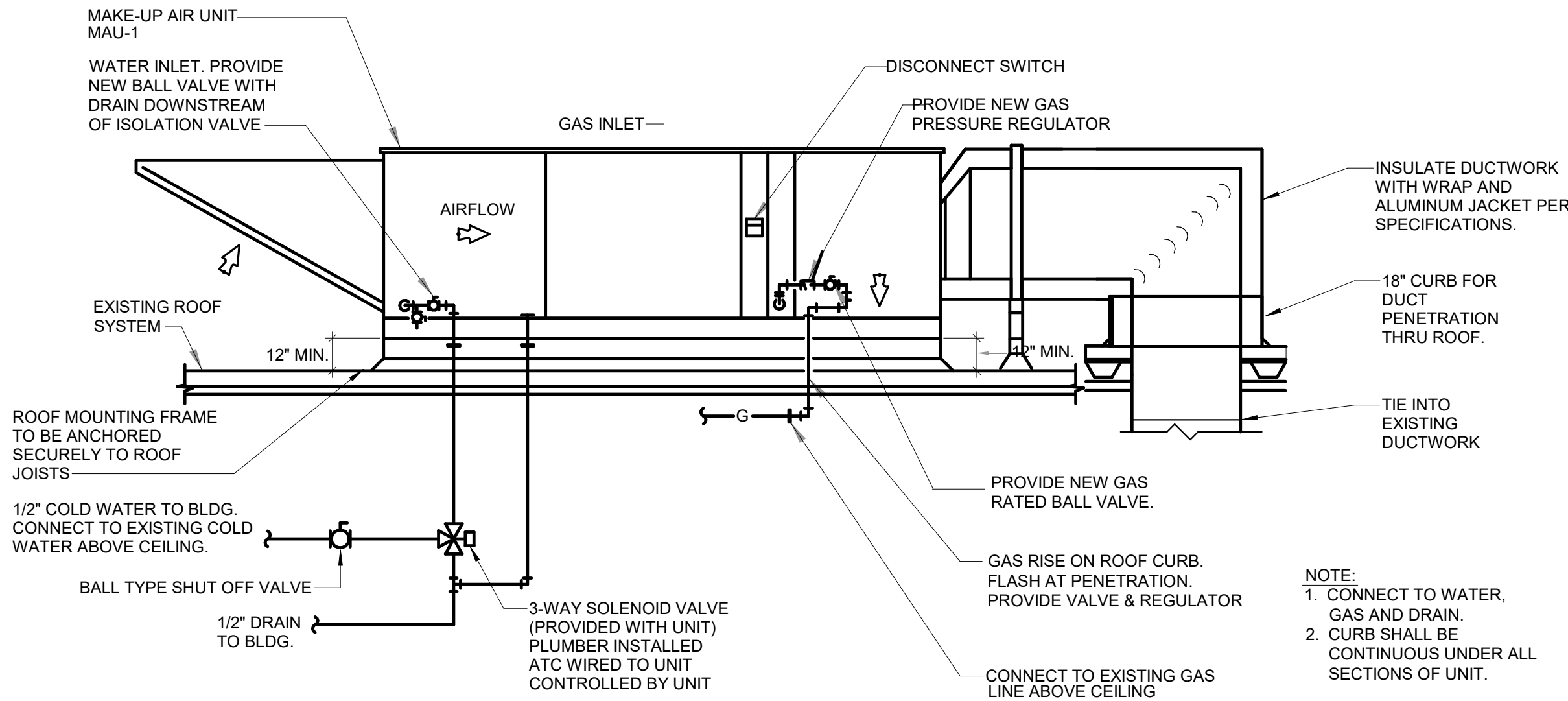




ROOF MOUNTED EXHAUST FAN DETAIL

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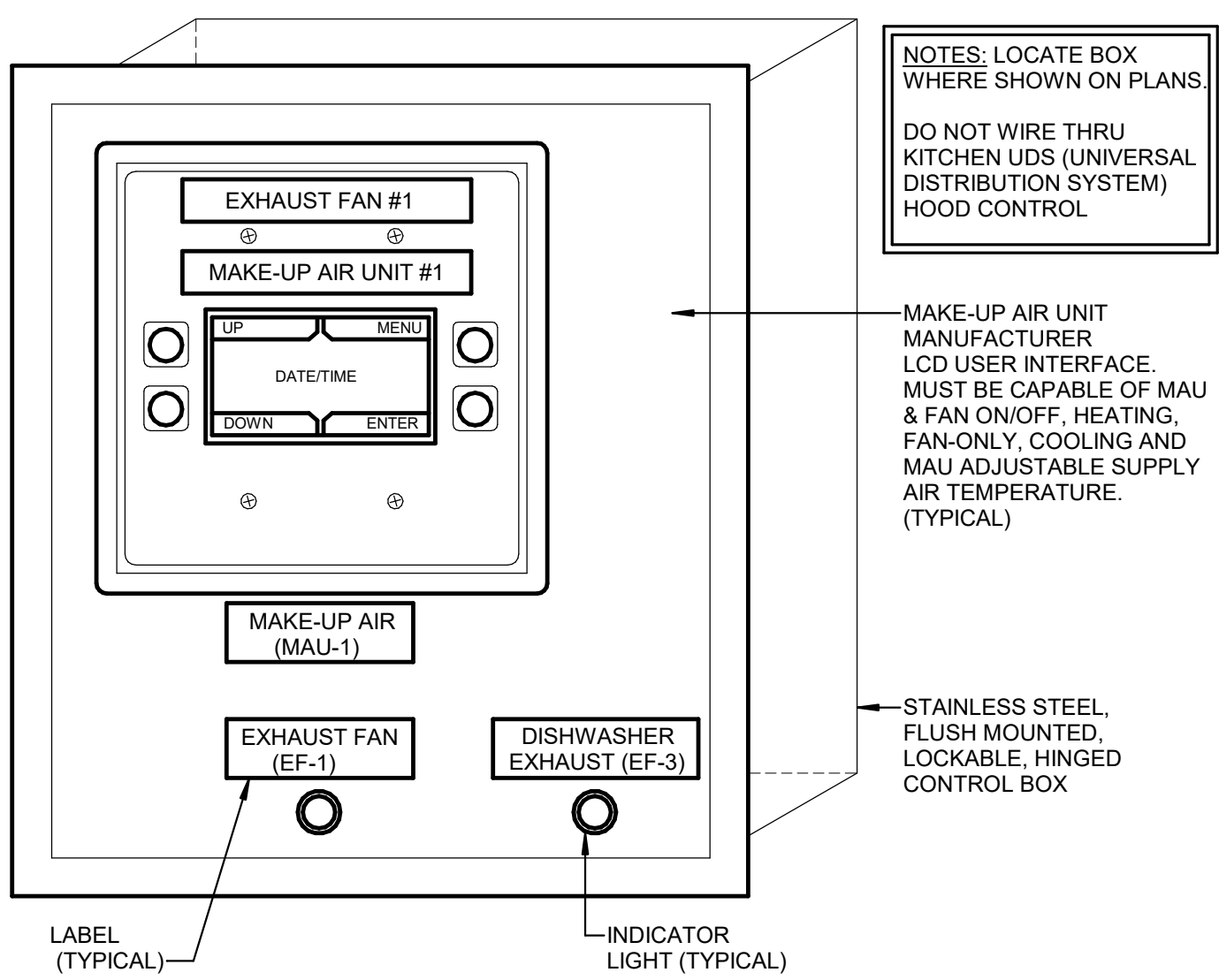
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MAKE-UP AIR UNIT MAU-1 DETAIL

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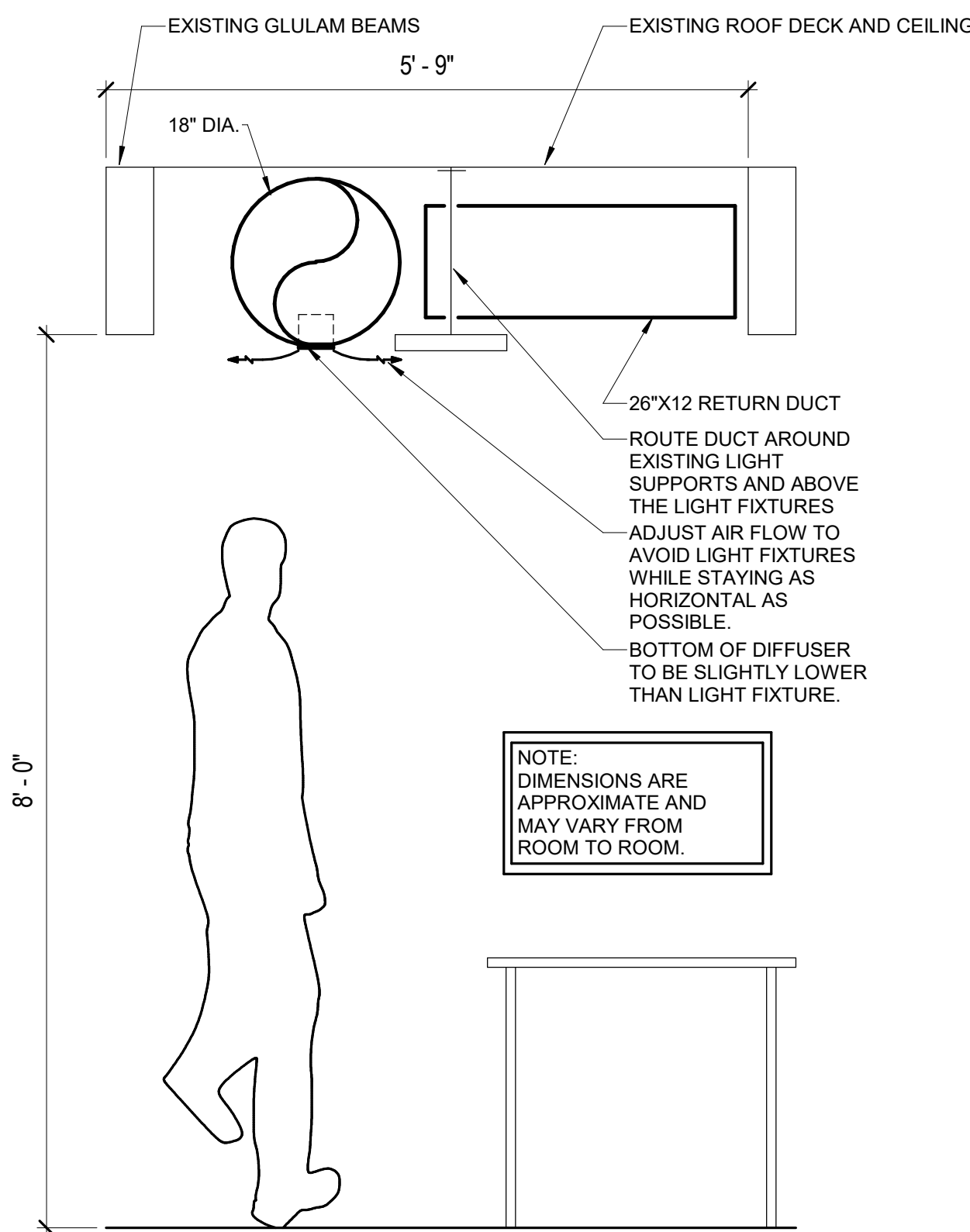
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MAKE-UP AIR UNIT AND KITCHEN EXHAUST CONTROL PANEL DETAIL

SCALE: NTS

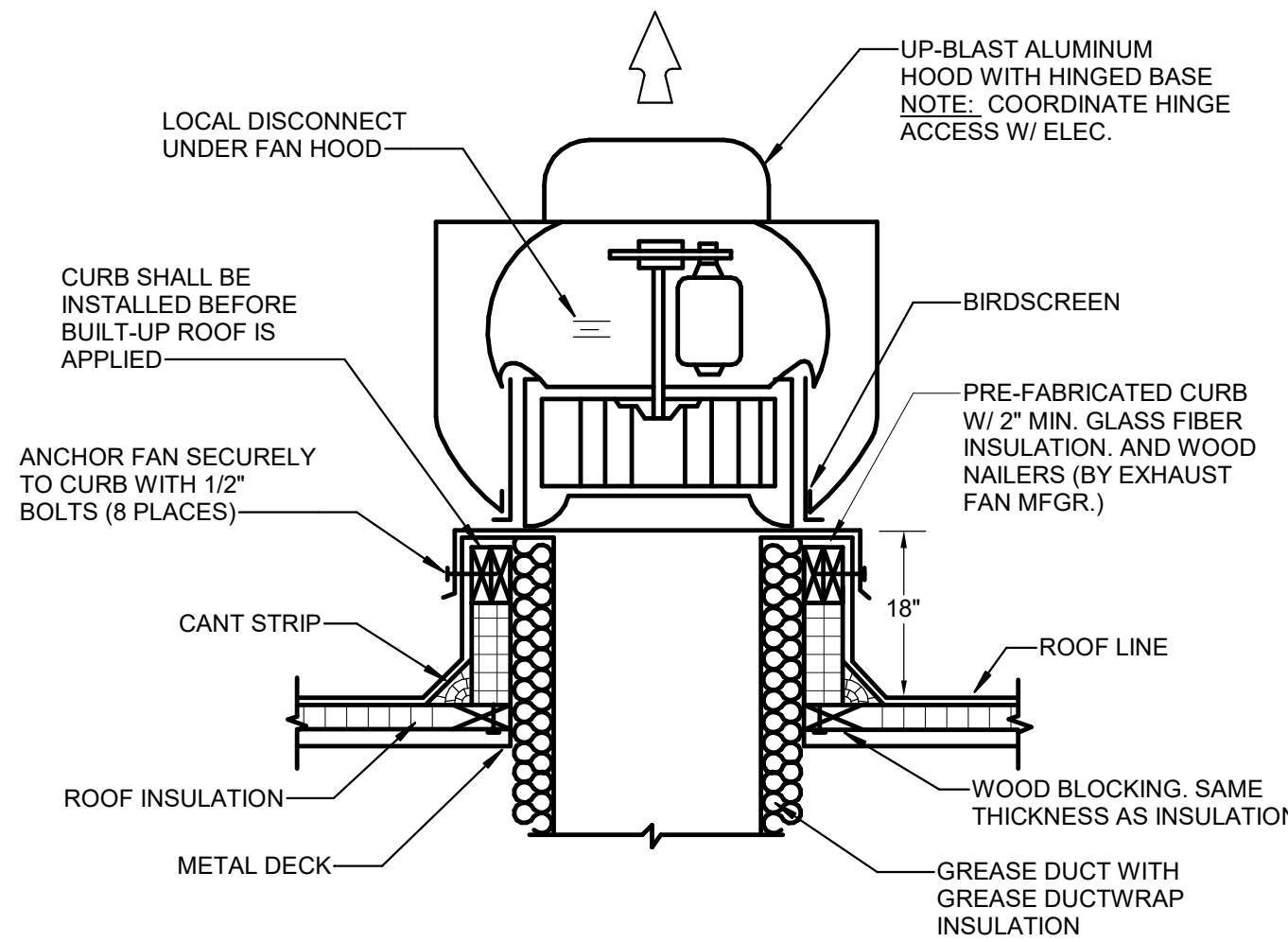
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TYPICAL CLASSROOM DIFFUSER

SCALE: NTS

2  
M6.2



KITCHEN HOOD ROOF MOUNTED EXHAUST FAN

SCALE: NTS

3  
M6.2



**GENERAL NOTES**

1. CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.

2. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT A QUALIFIABLE CONTRACTOR FOR ELECTRICAL AND SHIP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.

3. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS ETC.) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING BUT NOT LIMITED TO BE REFRIGERATION, AIR HANDLING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.

4. SEE SECTION 26-0100 OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.

5. USE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT. WIRING DEVICES MUST BE APPROVED BY THE GENERAL CONTRACTOR. PROVIDE DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.

6. FINISHES OF ALL LIGHT FIXTURES SHALL AS BE SELECTED BY ARCHITECT.

7. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREGO TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.

8. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLLARS IN BRICK WALLS OR IN GROUTED CLCS ADJACENT TO PARTITIONS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.

9. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE-RATING OF SURFACE PENETRATED.

10. CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORING OR POKE-HIT THROUGH INSTALLATION. COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-HIT WITH OWNER AND FURNITURE PROVIDER PRIOR TO ROUGH-IN.

11. OCCULTS EXTENDING OVER 70' FROM 10' TO 120' AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

20 AMP MINIMUM BRANCH CIRCUIT CONDUCTOR SIZING

MAXIMUM LENGTH CONDUCTOR LENGTH (FEET)	BRANCH CIRCUIT VOLTAGE	
	120 VOLTS	277 VOLT
<75'	MIN #10 AWG	MIN #12 AWG
75-115'	MIN #10 AWG	MIN #12 AWG
115-170'	MIN #10 AWG	MIN #10 AWG
170-270'	MIN #8 AWG	MIN #8 AWG
270-380'	NOTE A	MIN #8 AWG
>380'	NOTE B	NOTE B

A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.

B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN .3% WITH A 5 AMP LOAD.

C. CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN .3% VOLTAGE DROP FOR A 5 AMP LOAD. IF NEEDED, CONTRACTOR SHALL PROVIDE ADDITIONAL CONDUIT AND CONDUCTOR SIZE TO MEET THIS STANDARD AT NO ADDITIONAL COST TO THE OWNER.

12. ALL CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES PARALLEL TO, OR AT RIGHT ANGLES TO THE STRUCTURE OR BUILDING ELEMENTS. SEPARATIONS BETWEEN CONDUITS AND FASTENINGS OF CONDUITS SHALL BE NEAT AND CONSISTENT. CONDUIT SHALL BE INSTALLED TO THE BOTTOM OF THE BUILDING ELEMENTS WHEN PARALLEL TO JOISTS AS CODE WILL ALLOW. OVERALL INSTALLATION SHALL BE ACCOMPLISHED IN AN ACCEPTABLE WORKMANLIKE MANNER. CONDUIT SHALL BE ALLOWED TO RUN PERPENDICULAR TO THE BOTTOM CHORD OF THE JOISTS.

13. DIVISION 26 SHALL VISIT SITE PRIOR TO BIDDING. BIDDS SHALL SEE EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS. FIELD VERIFY ALL ELECTRICAL EQUIPMENT.

14. BIDDERS SHALL EXAMINE THE SITE AND THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT. THEY SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTION AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK THEY WILL CONTRACT TO PERFORM.

15. ELECTRICAL CONTRACTOR SHALL COORDINATE PROJECT PHASING WITH GENERAL CONTRACTOR. DESIGN AND PERFORMANCE RESPONSIBILITIES FOR THIS PROJECT TO GENERAL CONTRACTOR EXPECTATIONS.

16. COORDINATE ELECTRICAL DEMOLITION WITH ARCHITECTURAL DRAWINGS AND GENERAL CONTRACTOR.

17. CLOSELY COORDINATE ANY REQUIRED POWER SUPPLIES WITH HEAD CONSULTANTS AND OWNER.

18. WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT INVOLVE SIGNIFICANT RISKS TO LIFE OR LIMB OR DAMAGE TO WORK REQUIRED, THE CONTRACTOR WILL MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN PERMISSION OF THE OWNER.

19. SEQUENCE, COORDINATE, AND INTEGRATE INSTALLATIONS OF ELECTRICAL MATERIALS AND EQUIPMENT TO PREVENT OBSTACLES TO THE PROGRESS OF PARTIAL SYSTEMS. RETAIL EQUIPMENT REQUIRING POSITIONING PRIOR TO CLOSING THE BUILDING. COORDINATE THE CUTTING AND PATCHING OF BUILDING COMPONENTS TO ACCOMMODATE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT.

20. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC. DISCONNECT AND RECONNECT ANALYSE, FIXTURES, DEVICES EQUIP. ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.

21. CONTRACTOR MUST CONCEAL ALL RACEWAY THROUGHOUT THE PROJECT. SURFACE MOUNT ACCEPTABLE ONLY IN CERTAIN CASES. EXCEPT WHERE THE USE OF PAINTED SURFACE RACEWAYS [EMT] IS APPROVED SOLELY BY THE ARCHITECT. PAINT TO MATCH SURROUNDING SURFACE.

22. ALL CONCRETE CUT AND PATCH WORK REQUIRED FOR FLOOR BOXES INSTALLATION AND/OR REPAIRS, RUBBER OR GASKETS WHICH CAUSED BY HIS EMPLOYEES OR RESULT FROM HIS WORK. ALL CONCRETE CUT AND PATCH WORK REQUIRED FOR FLOOR BOXES INSTALLATION AND/OR REPAIRS SHALL BE DONE BY ELECTRICAL CONTRACTOR. ALL CUTS OUTCUTS FOR NEW SERVICE SHALL ALSO BE COVERED UNDER ELECTRICAL CONTRACTORS REQUIRED WORK.

23. ALL CONCRETE CUT AND PATCH WORK REQUIRED FOR FLOOR BOXES INSTALLATION AND/OR REPAIRS, RUBBER OR GASKETS WHICH CAUSED BY HIS EMPLOYEES OR RESULT FROM HIS WORK. ALL CONCRETE CUT AND PATCH WORK REQUIRED FOR FLOOR BOXES INSTALLATION AND/OR REPAIRS SHALL BE DONE BY ELECTRICAL CONTRACTOR. ALL CUTS OUTCUTS FOR NEW SERVICE SHALL ALSO BE COVERED UNDER ELECTRICAL CONTRACTORS REQUIRED WORK.

24. CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE OF ALL WASTE. SURPLUS MATERIALS, RUBBER OR GASKETS WHICH CAUSED BY HIS EMPLOYEES OR RESULT FROM HIS WORK. AFTER ALL MATERIAL AND DEVICES HAVE BEEN INSTALLED, REMOVE ALL LABELS, STAPLES, STAINS, TEMPORARY COVERS, ETC. IDENTIFICATION PLATES ON ALL EQUIPMENT.

25. IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY NECESSARY OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NEARBY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED BY CONTRACTOR.

26. PROVIDE GFCI CIRCUIT BREAKERS SERVING RECEPTACLES PROVIDING POWER TO DRINKING FOUNTAINS, REFRIGERATORS, VENDING MACHINES, DISPOSALS, AND WASHING MACHINES.

27. CAREFULLY REVIEW THE ENTIRE DRAWING PACKAGE PRIOR TO PROVIDING BID. INCLUDING THE ARCHITECTURAL AND MECHANICAL DRAWINGS. NOT REVIEWING THE ENTIRE SET IS NOT ACCEPTABLE.










































28. PROVIDE CONDENSED OR CONDENSE TO PROVIDE IN OPEN AREA EXPPOSED CEILINGS. CEILINGS WITH EXPOSURES ARE FORMERLY EXPONDED CEILING. NO EXPONDED CELLS SHALL BE SEEN FROM BELOW.

29. PROVIDE WEATHERPROOF, NEMA 3R RATED ELECTRICAL PANEL, EXTERIOR APPLICATION


















[illegible]












## SYMBOL LEGEND GENERAL NOTES

1. REFER TO LUMINAIRE SCHEDULE FOR FIXTURE TYPES, MOUNTING REQUIREMENTS, WATTAGE & DETAILS.
2. WIRE LIGHT FIXTURE FROM ADJACENT JUNCTION BOX.
3. CONNECT NEAREST UN-SWITCHED HOT CONDUCTOR TO EMERGENCY BALLAST.
4. LIGHT FIXTURES ARE SCALED WITHIN THE DRAWINGS BASED ON ACTUAL DIMENSIONS.
5. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
6. SUBSCRIPT INDICATES FIXTURES TO BE CONTROLLED.
7. HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISHED FLOOR.
8. NOT USED.
9. MEVA TYPE "M" NON-FUSED UNLESS NOTED "F" (FUSED), USE HEAVY DUTY (HD) DEVICE FOR 480 VOLT.
10. SIZE TO THE EQUIPMENT BEING CONTROLLED.
11. PROVIDE H.O.A. & S.S. PUSHBUTTONS AS REQUIRED.
12. DOUBLE ARROWS INDICATES A DOUBLE FACE LAMP.
13. FOR WATER COOLER LOCATION, REFER TO DIAGRAM R002, FOR ALL OTHER LOCATIONS, MOUNT AT 16" TO BOTTOM OF BOX FROM FINISHED FLOOR, OR AS NOTED.
14. ARROWS SHOWN ON DEVICE INDICATE AIMING DIRECTION.
15. COORDINATE WITH OTHER HARDWARE SUPPLIER.
16. MOUNT ON TRACK OF OVERHEAD COOD, 6" FROM TOP OF DOOR, UNLESS OVERHEAD DOOR IS A ROLL UP DOOR, THEN MOUNT PER MANUFACTURER'S INSTRUCTIONS.
17. INSTALL DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
18. DASHED LINE INDICATES EQUIPMENT CLEARANCES. ARROW INDICATES FRONT OF RACK.
19. HEIGHT MEASURED TO BOTTOM OF THE DEVICE FROM FINISHED FLOOR.
20. PROVIDE MUD RING & BOX COVER APPROPRIATE FOR DEVICE/FIXTURE SERVED.
21. REFER TO DIAGRAMS, ELEVATIONS, & SCHEDULES FOR CUSTOM ROUGH IN REQUIREMENTS.
22. ROUGH-IN TO BE HORIZONTAL.
23. REFER TO MANUFACTURER'S RECOMMENDED CABLE REQUIREMENTS FOR EXACT CABLE REQUIRED.
24. FOLLOW BICSI STANDARDS FOR CABLE ROUTING & DISTANCES.
25. SUBSCRIPT INDICATES NEMA CONFIGURATION.
26. USE A 4" X 4" BOX WITH A MUD RING TO MATCH THE DEVICE & INSTALLATION.
27. USE WITH POWER PACK.
28. PROVIDE UL LISTED DEVICE COMPATIBLE WITH THE FIRE ALARM PANEL/SYSTEM.
29. CAMERA TYPES ARE INDICATED INSIDE THE CAMERA SYMBOL.  
SOLID BOX AROUND DEVICE INDICATES INSTALLED IN FLOOR, DASHED BOX AROUND DEVICE INDICATES INSTALLED IN CEILING.
31. WALL DEVICES NOTED WITH A CHEVRON INDICATE THE PROPOSED INSTALLATION HEIGHT. COORDINATE WITH MILL/WORK SHOP DRAWINGS & ELEVATIONS FOR HEIGHT.

GENERAL LEGEND				
SYMBOL	DESCRIPTION	MOUNTING	NOTES	
	EXISTING	-	-	
	DEMO	-	-	
	TEMPORARY	-	-	
	NEW	-	-	
	NOT IN CONTRACT	-	-	
	SOLID ARCHED LINES INDICATE UNSWITCHED POWER CIRCUITING	-	-	
	DASHED ARCHED LINES INDICATE SWITCHED POWER CIRCUITING	-	-	
	ONE CIRCUIT, HOME RUN TO PANEL	-	-	
	TWO CIRCUITS, HOME RUN TO PANEL	-	-	
	THREE CIRCUITS, HOME RUN TO PANEL	-	-	
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND	-	-	
	CONDUIT RUN CONCEALED IN WALL OR CEILING	-	-	
	CONDUIT UP	-	-	
	CONDUIT DOWN	-	-	
	CONDUIT STUB LOCATION	-	-	CAP CONDUIT
	CONDUIT / CIRCUIT CONTINUATION	-	-	
	CONDUIT	-	-	
	OWP: OVERHEAD POWER SERVICE	-	-	
	UGF: UNDERGROUND POWER SERVICE	-	-	
	UFP: UNDERGROUND FIBER SERVICE	-	-	
	TEL: TELEPHONE SERVICE	-	-	
	CABLE TRAY	AS NOTED	19	
	SOLID BOTTOM LADDER JACKET	-	-	
	GROUND BUS BAR	+18"	7	
	EQUIPMENT CEILING RACK	CEILING	18, 25	SEE SPEC.
	EQUIPMENT CABINET/RACK	WALL / FLOOR	18, 25	SEE SPEC.
	EQUIPMENT 2-POST CABINET/RACK	FLOOR	18, 25	SEE SPEC.
	TELEPHONE DEMARCATION BOARD	+18"	25	
	TIME CLOCK	+48"	25	
	TV RACK	FLOOR PLAT. PANEL HEIGHT - 12"	7, 22	
	JUNCTION BOX	AS NOTED	20	
	FLOOR BOX / POKE THRU	FLOOR	-	
	- SEE SCHEDULE FOR TYPE INFORMATION	-	-	
	EQUIPMENT SYSTEM PANELS	+60" TO TOP	-	
	ACS: ACCESS CONTROL PANEL	-	-	
	IDIS: INTRUSION DETECTION PANEL	-	-	
	PSU: POWER SUPPLY PANEL	-	-	
	RPV: LIGHTING PANEL	-	-	
	DAS: DISTRIBUTED ANTENNA SYSTEM	-	-	
	FRSIS: FIRST RESPONDERS RADIO SYSTEM	-	-	
	CABLE TV CONTENT EQUIPMENT	-	-	

POWER DISTRIBUTION EQUIPMENT SYMBOLS				
SYMBOL	DEVEICATURE DESCRIPTION	MOUNTING	NOTES	
	TRANSFORMER SEE SINGLE-LINE DIAGRAM FOR DESCRIPTION & REQUIREMENTS	4" CONCRETE BASE	18	
	POWER DISTRIBUTION PANEL	6'-6" TO TOP	18	
	FLUSH PANELBOARD	6'-6" TO TOP	18	
	SURFACE PANELBOARD	6'-6" TO TOP	18	
POWER SYMBOLS LEGEND				
SYMBOL	DEVEICATURE DESCRIPTION	MOUNTING	NOTES	
	S. SIMPLEX			
	D. DUPLEX			
	4 POLE			
	SP SPECIFIED PURPOSE			
	CEILING MOUNTED RECEPTACLE	18"	7, 25, 30	
	WALL MOUNTED RECEPTACLE	CEILING		
	SWITCHED RECEPTACLE	18"	7	
	EMERGENCY RECEPTACLE	18"	7	
	GROUND FAULT RECEPTACLE	18"	7	
	ISOLATED GROUND RECEPTACLE	18"	7	
	RECEPTACLE (SPECIFIC HEIGHT)	7, 31		
	CONTROLLED RECEPTACLE	+18" OR AS NOTED	7, 31	
	RECEPTACLE & MODIFIERS: *H* HEIGHT AFF. O.C. WP WEATHERPROOF W/ IN-USE COVER T TAMPER-PROOF U RECEPTACLE WITH USB OUTLET S GROUND FAULT PROTECTED @ BREAKER H HOSPITAL GRADE	7, 13, 31		
	TOMBSTONE RECEPTACLE	COUNTER TOP		
	SPST PROTECTED RECEPTACLE	+18" OR AS NOTED	7	
	CORD REEL, DEVICE VARIES	CEILING		
	CORD DROP, DEVICE VARIES	CEILING		
	MULTI-OUTLET ASSEMBLY FILLED SQUARES INDICATE 120V OUTLET OPEN SQUARES INDICATE WITH USB	+6" OR AS NOTED	7, REFER TO NOTES	
	SINGLE TERMINAL PORT ELECTRICAL VEHICLE CHARGER	+46"	7	
	POWER POLE			
	SWITCH/MODIFIERS: K KEYS T TIMER M MANUAL STARTER THERMAL OVLDRD SWITCH	+46"	7	
	EMERGENCY POWER OFF PUSH BUTTON	+46"	7	
	DOOR OPENER PUSH PLATE	+46"	7	
	ELECTRICAL POWER METER	+72" TO TOP	9, 10	
	FUSED DISCONNECT SWITCH	+60" TO TOP	9, 10	
	NON-FUSED DISCONNECT SWITCH	+60" TO TOP	9, 10	
	MAGNETIC STARTER	+60" TO TOP	9, 10, 11	
	MAGNETIC STARTER WITH FUSED DISCONNECT	+60" TO TOP	9, 10, 11	
	MAGNETIC STARTER WITH BREAKER DISCONNECT	+60" TO TOP	9, 10, 11	
	VARIABLE FREQUENCY DRIVE	+60" TO TOP	9, 10, 11	
	MOTOR			
	PUSH BUTTON	+46"	7	

FIRE ALARM SYMBOLS LEGEND				
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	NOTES	
<b>W</b> <b>C</b>	W- WALL C- CEILING			
	AUDIBLE ANNUNCIATION (HORN) LF: LOW FREQUENCY HORN SP: SPEAKER FB: FIRE BELL	+94" WALL / CEILING OR AS NOTED	7.28	
	VISIBLE ANNUNCIATION CANDELA AS INDICATED (BLANK) B: BLUE STROBE A: AMBER STROBE	+94" WALL / CEILING OR AS NOTED	7.28	
	AUDIBLE/VISIBLE ANNUNCIATION CANDELA AS INDICATED (BLANK) B: BLUE STROBE A: AMBER STROBE LF: LOW FREQUENCY HORN SP: SPEAKER	+94" WALL / CEILING OR AS NOTED	7.28	
	REMOTE INDICATOR or TEST SWITCH	+94" WALL / CEILING OR AS NOTED	7.28	
	SMOKE DETECTOR	CEILING	28	
	HEAT DETECTOR	CEILING	28	
	CARBON MONOXIDE DETECTOR	CEILING	28	
	BEAM DETECTOR	CEILING	28	
	T- TRANSMITTER R- RECEIVER	CEILING	28	
	COMBINATION DETECTOR (UP TO THREE)	CEILING	28	
	DUCT SMOKE DETECTOR	CEILING	28	
	FIRE/SMOKE DAMPER	CEILING	28	
	DOOR HOLDER	AS INDICATED	28	
	DOOR CLOSER	AS INDICATED	28	
	FIRE SERVICE PHONE	+48"	7.28	
	ADDRESSABLE MODULE		28	
	AIM: ADDRESSABLE INPUT/MODULE AOM: ADDRESSABLE OUTPUT/MODULE AO: ADDRESSABLE INPUT/OUTPUT			
	FIRE ALARM CONTROL UNIT EVAC: VOICE EVACUATION CONTROL PANEL	+48" WALL / CEILING OR AS NOTED	7.21, 28	
	FAA: FIRE ALARM ANNUNCIATOR			
	FACP: FIRE ALARM CONTROL PANEL			
	NACP: FIRE ALARM TERMINAL CABINET			
	NACP: NOTIFICATION APPLIANCE CIRCUIT PANEL			
	FAMN: FIRE ALARM MASS NOTIFICATION PANEL			
	TW: TWO WAY COMMUNICATION INTERCOM			
	TWC: TWO WAY COMMUNICATION CONTROLLER			
	SV: SUPERVISORY or INTERFACE DEVICE	LOCATE AT 28		
	PV: POST INDICATOR VALVE			
	PS: PRESSURE SWITCH			
	NR: NON-ADDRESSABLE RELAY			
	VS: VALVE SUPERVISORY SWITCH			
	FS: FLOW SWITCH			
	TS: TAMPER SWITCH			
	WF: WATER FLOOD SENSOR			
	MANUAL PULL STATION	+48"	7.28	

DATA NETWORK SYMBOLS LEGEND				
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	NOTES	
<b>W</b> <b>F</b> <b>C</b>	W- WALL F- FLOOR C- CEILING			
	DATA OUTLET (SINGLE CABLE)	18" WALL / FLOOR/CEILING	7.24, 30	
	DATA OUTLET (TWO CABLES)	18" WALL / FLOOR/CEILING	7.24, 30	
	DATA OUTLET (THREE CABLES)	18" WALL / FLOOR/CEILING	7.24, 30	
	WIRELESS ACCESS POINT*	96" WALL / CEILING	7.24, 30	
	SERIES XOOXIAL CABLE OUTLET	18" WALL / FLOOR/CEILING	7.24, 30	
	DISTRIBUTED ANTENNA SYSTEM (DAS)	108" WALL / CEILING ABOVE	7.24, 30	
	PUBLIC SAFETY ANSWERING MACHINE (PSAM)	108" WALL / CEILING ABOVE	7.24, 30	
	CELLULAR COMMERCIAL ANTENNA	108" WALL / CEILING ABOVE	7.24, 30	
	BI-DIRECTIONAL AMPLIFIER	108" WALL / CEILING ABOVE	7.24, 30	
	SPLITER	108" WALL / CEILING ABOVE	7.24, 30	
	VIA	108" WALL / CEILING ABOVE	7.24, 30	

ELECTRICAL SHEET LIST	
E0001	ELECTRICAL TITLE SHEET
E0002	ELECTRICAL SCHEDULES
E0003	ELECTRICAL ONE-LINE DIAGRAM
E0004	ELECTRICAL DIAGRAM
E0005	ELECTRICAL DIAGRAM
EP112	MAN FLOOR POWER PLAN AREA A
EP113	MAN FLOOR POWER PLAN AREA B
EP114	OVERALL ROOF POWER PLAN
EP115	MANIL SCHEDULE
ES112	MAN FLOOR SYSTEM PLAN AREA A
ES113	MAN FLOOR SYSTEM PLAN AREA B

ELECTRICAL SHEET LIST	
E0001	ELECTRICAL TITLE SHEET
E0002	ELECTRICAL SCHEDULES
E0003	ELECTRICAL ONE-LINE DIAGRAM
E0004	ELECTRICAL DIAGRAMS
E0005	ELECTRICAL DIAGRAMS
EP102	MAIN FLOOR POWER PLAN AREA A
EP113	MAIN FLOOR POWER PLAN AREA B
EP114	OVERALL ROOF POWER PLAN
EP115	PANEL SCHEDULE
ES112	MAIN FLOOR SYSTEM PLAN AREA A
ES113	MAIN FLOOR SYSTEM PLAN AREA B



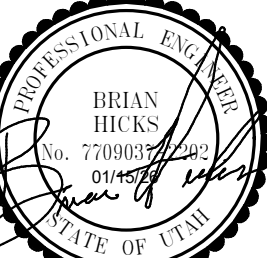
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MECHANICAL EQUIPMENT SCHEDULE																																		
<div>RESPONSIBILITY LEGEND: EC- ELECTRICAL CONTRACTOR (DIVISION 26) MC- MECHANICAL CONTRACTOR (DIVISION 23) CC- CONTROL CONTRACTOR</div> <div>NOTES: 1. NON-FUSED DISCONNECT SWITCH 2. FUSED DISCONNECT SWITCH 3. BREAKER IN ENCLOSURE 4. MANUAL STARTER WITH THERMAL OVERLOAD 5. MAGNETIC STARTER 6. MAGNETIC STARTER/NO-FUSED DISCONNECT COMBINATION 7. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION 8. MAGNETIC STARTER/BREAKER COMBINATION 9. VARIABLE FREQUENCY DRIVE 10. REDUCED VOLTAGE STARTER 11. DIRECT CONNECTION 12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC. 13. TWO-SPEED STARTER, COORDINATE WITH MOTOR TYPE 14. SOLID STATE SOFT-STARTER</div> <div>GENERAL NOTES 1. PER NEC 250.122(A), EQUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN THE PHASE CONDUCTOR 2. OVERCURRENT PROTECTION DEVICE (OCPD) SHOWN IS LOCATED AT POWER PANEL. ALL FUSING TO BE SIZED IN ACCORDANCE WITH FUSE MFR RECOMMENDATION FOR MOTO... 3. ALL EQUIPMENT TO BE RATED FOR THE ENVIRONMENT FOR WHICH IT IS INSTALLED. 4. OVERLOAD PROTECTION SHALL BE PROVIDED FOR ALL MOTOR BRANCH CIRCUITS IN COMPLIANCE WITH NEC SECTION 430. SIZE OVERLOAD UNITS BASED ON ACTUAL RUNNING...</div>																																		
IDENTITY INFORMATION			ELECTRICAL		LOAD INFORMATION				OCPD		CIRCUIT INFORMATION				GROUND CONDUCTOR		CONDUIT SIZE		STARTER		CONTROL		DISCONNECT		INTERLOCK		NOTES							
TYPE ID	INSTANCE ID	DESCRIPTION	VOLTAGE	PHASE	MOTOR POWER	APPARENT POWER	REAL POWER	FLA	MCA	EM POWER	TYPE	OCPD	PHASE CONDUCTORS		NEUTRAL CONDUCTOR		GROUND CONDUCTOR	CONDUIT SIZE	TYPE	FURNISH	INSTALL	TYPE	FURNISH	INSTALL	TYPE	FURNISH	INSTALL	TYPE	FURNISH	INSTALL	INTERLOCK	NOTES		
CUH	- 1	CABINET UNIT HEATER	208 V	3	0.00 hp	6.5 kVA	5.8 kW	18 A	22.5 A	No	(Motor) Inverse Time Breaker	30 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
CUH	- 2	CABINET UNIT HEATER	208 V	3	0.00 hp	2.2 kVA	1.9 kW	6 A	7.5 A	No	(Motor) Inverse Time Breaker	15 A	1	3	12	Cu	No	None	12	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
CUH	- 3	CABINET UNIT HEATER	208 V	3	0.00 hp	19.4 kVA	9.4 kW	29 A	36.3 A	No	(Motor) Inverse Time Breaker	45 A	1	3	8	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
EUH	- 1	ELECTRIC UNIT HEATER	208 V	3	0.00 hp	6.9 kVA	6.2 kW	19.2 A	24 A	No	(Motor) Inverse Time Breaker	30 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
EF	- 1	EXHAUST FAN	120 V	1	0.25 hp	0.7 kVA	0.6 kW	5.8 A	7.3 A	No	(Motor) Inverse Time Breaker	15 A	1	1	12	Cu	No	None	12	Cu	3/4"	4A	EC	EC	MC	MC	MC	4A	EC	EC				
EF	- 2	EXHAUST FAN	120 V	1	0.25 hp	0.7 kVA	0.6 kW	5.8 A	7.3 A	No	(Motor) Inverse Time Breaker	15 A	1	1	12	Cu	No	None	12	Cu	3/4"	4A	EC	EC	MC	MC	MC	4A	EC	EC				
EF	- 3	EXHAUST FAN	120 V	1	0.75 hp	1.7 kVA	1.5 kW	13.8 A	17.3 A	No	(Motor) Inverse Time Breaker	25 A	1	1	12	Cu	Yes	12	Cu	10	Cu	3/4"	7A	EC	EC	MC	MC	MC	7A	EC	EC			
HP	- 1	HEAT PUMP	208 V	3	0.00 hp	4.3 kVA	3.9 kW	12 A	15 A	No	(Motor) Inverse Time Breaker	20 A	1	3	12	Cu	No	None	12	Cu	3/4"	7A	EC	EC	MC	MC	MC	7A	EC	EC				
MAU	- 1	MAKE-UP AIR UNIT	208 V	3	0.00 hp	8.8 kVA	7.2 kW	22.1 A	27.8 A	No	(Motor) Inverse Time Breaker	35 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 1	ROOFTOP UNIT	208 V	3	0.00 hp	8.9 kVA	8.0 kW	24.8 A	31 A	No	(Motor) Inverse Time Breaker	40 A	1	3	8	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 2	ROOFTOP UNIT	208 V	3	0.00 hp	6.3 kVA	5.7 kW	17.8 A	22 A	No	(Motor) Inverse Time Breaker	30 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 3	ROOFTOP UNIT	208 V	3	0.00 hp	7.5 kVA	6.7 kW	20.8 A	26 A	No	(Motor) Inverse Time Breaker	35 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 4	ROOFTOP UNIT	208 V	3	0.00 hp	6.3 kVA	5.7 kW	17.8 A	22 A	No	(Motor) Inverse Time Breaker	30 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 5	ROOFTOP UNIT	208 V	3	0.00 hp	6.3 kVA	5.7 kW	17.8 A	22 A	No	(Motor) Inverse Time Breaker	30 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 6	ROOFTOP UNIT	208 V	3	0.00 hp	8.8 kVA	8.0 kW	24.8 A	31 A	No	(Motor) Inverse Time Breaker	40 A	1	3	8	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 7	ROOFTOP UNIT	208 V	3	0.00 hp	7.5 kVA	6.7 kW	20.8 A	26 A	No	(Motor) Inverse Time Breaker	35 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 8	ROOFTOP UNIT	208 V	3	0.00 hp	6.3 kVA	5.7 kW	17.8 A	22 A	No	(Motor) Inverse Time Breaker	30 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 9A	ROOFTOP UNIT	208 V	3	0.00 hp	7.5 kVA	6.7 kW	20.8 A	26 A	No	(Motor) Inverse Time Breaker	35 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 9B	ROOFTOP UNIT	208 V	3	0.00 hp	7.5 kVA	6.7 kW	20.8 A	26 A	No	(Motor) Inverse Time Breaker	35 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 10	ROOFTOP UNIT	208 V	3	0.00 hp	7.5 kVA	6.7 kW	20.8 A	26 A	No	(Motor) Inverse Time Breaker	35 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 11	ROOFTOP UNIT	208 V	3	0.00 hp	6.3 kVA	5.7 kW	17.8 A	22 A	No	(Motor) Inverse Time Breaker	30 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 12	ROOFTOP UNIT	208 V	3	0.00 hp	7.5 kVA	6.7 kW	20.8 A	26 A	No	(Motor) Inverse Time Breaker	35 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 14	ROOFTOP UNIT	208 V	3	0.00 hp	7.5 kVA	6.7 kW	20.8 A	26 A	No	(Motor) Inverse Time Breaker	35 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 15	ROOFTOP UNIT	208 V	3	0.00 hp	8.9 kVA	8.0 kW	24.8 A	31 A	No	(Motor) Inverse Time Breaker	40 A	1	3	8	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 16	ROOFTOP UNIT	208 V	3	0.00 hp	7.5 kVA	6.7 kW	20.8 A	26 A	No	(Motor) Inverse Time Breaker	35 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 17	ROOFTOP UNIT	208 V	3	0.00 hp	7.5 kVA	6.7 kW	20.8 A	26 A	No	(Motor) Inverse Time Breaker	35 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 18	ROOFTOP UNIT	208 V	3	0.00 hp	7.5 kVA	6.7 kW	20.8 A	26 A	No	(Motor) Inverse Time Breaker	35 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 19	ROOFTOP UNIT	208 V	3	0.00 hp	8.4 kVA	7.5 kW	23.2 A	29 A	No	(Motor) Inverse Time Breaker	35 A	1	3	10	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				
RT	- 20	ROOFTOP UNIT	208 V	3	0.00 hp	8.9 kVA	8.0 kW	24.8 A	31 A	No	(Motor) Inverse Time Breaker	40 A	1	3	8	Cu	No	None	10	Cu	3/4"	2A	EC	EC	MC	MC	MC	2A	EC	EC				



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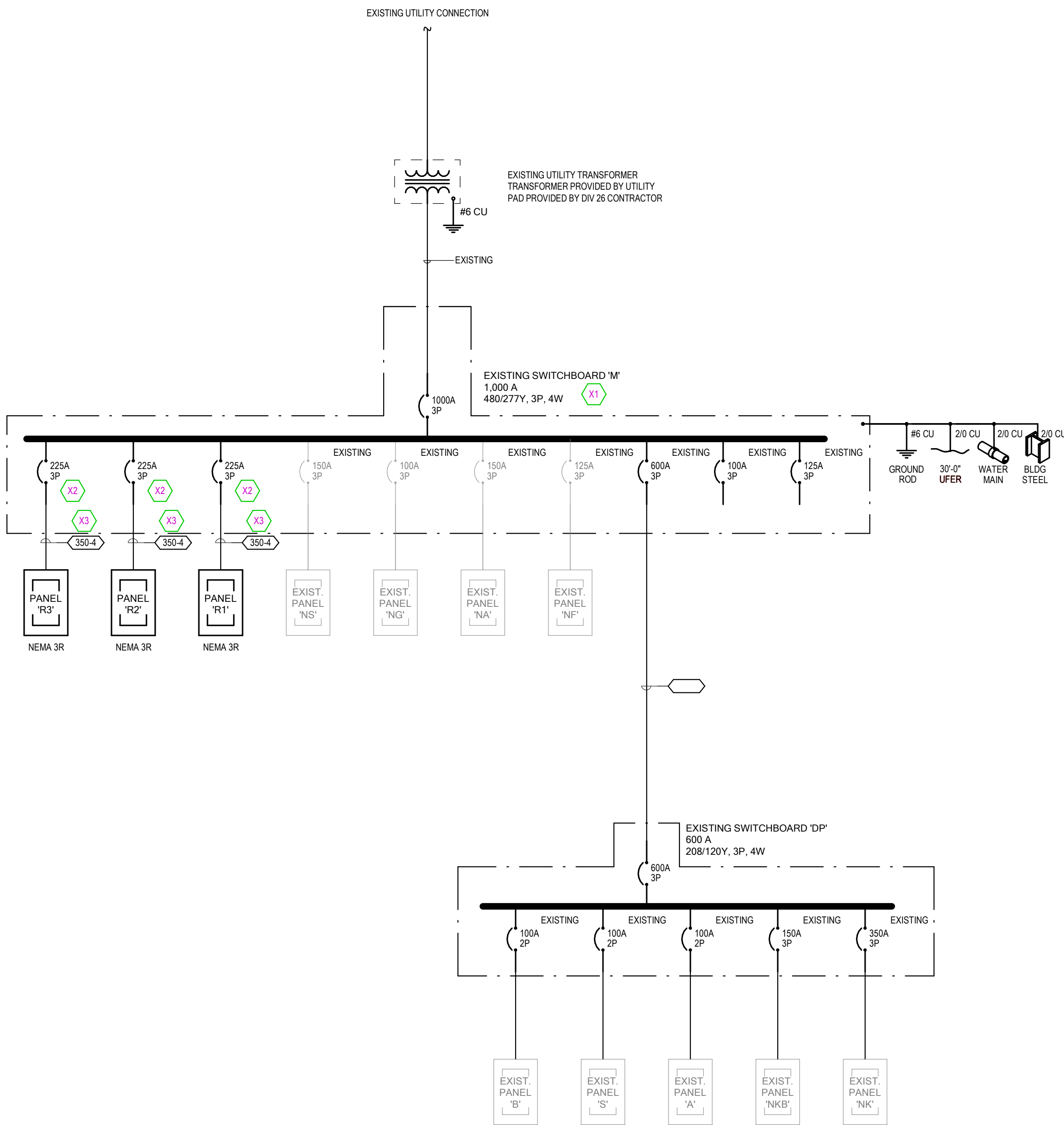
REVISIONS:

PROJECT TITLE  
EMERY SCHOOL DISTRICT  
COTTONWOOD ELEMENTARY SCHOOL  
155 EAST 200 SOUTH  
MECHANICAL UPGRADE  
ORANGEVILLE, UTAH

DRAWN BY: MK  
CHECKED BY: ES  
DATE: JAN. 2026  
PROJECT #: 176525

EG002

ELECTRICAL ONE-LINE SYMBOL DIAGRAM									
SYMBOL	DESCRIPTION				SYMBOL	DESCRIPTION			
	GENERATOR					POWER PANEL			
	DOCKING STATION					TRANSFER SWITCH			
	AC/DC INVERTER					TRANSFORMER			
	FUSED DISCONNECT					MAGNETIC STARTER / DISCONNECT			
	SURGE PROTECTION					CURRENT TRANSFORMER			
	FEED THRU METER					CT METER			
	CIRCUIT BREAKER					FUSED SWITCH			
	UNFUSED SWITCH					MOTOR			
	NEW LINE TYPE					EXISTING LINE TYPE			
	DEMOLITION LINE TYPE								



1 Electrical One-Line Diagram  
12" = 1'-0"

K13 RATED COPPER TRANSFORMER SCHEDULE																			
PRIMARY (LINE) SIDE 480D, 3P, 3W										SECONDARY (LOAD) SIDE 208/120Y, 3P, 5W, 200% NEUTRAL									
TRANS KVA	O.C. PROT.	TYPE COND.*	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUCTOR SIZE	GROUND COND.	CONDUIT SIZE	GEC ①	MIN. 2%	O.C. PROT.	TYPE COND.*	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUCTOR SIZE	CONDUIT SIZE	BONDING JUMPER ②	
15	30	P115	30	1	3	10	10	3/4"	10	3	60	S015-2	60	1	5	3	2"	8	
30	50	P030	50	1	3	6	8	1"	6	3	100	S030-2	120	1	5	10	2"	6	
45	70	P045	70	1	3	4	8	1-1/4"	2	3	175	S045-2	184	1	5	40	3"	2	
75	125	P075	125	1	3	1/0	6	2"	2	3	225	S075-2	248	1	5	350	3"	2	
112.5	175	P112	175	1	3	2/0	6	2"	1/0	4	400	S112-2	408	2	5	250	3"	1/0	
150	300	P150	310	1	3	350	3	3"	2/0	4	600	S150-2	608	2	5	500	4"	2/0	
225	400	P225	380	1	3	500	3	4"	3/0	4	800	S225-2	804	3	5	400	4"	3/0	
300	600	P300	620	2	3	350	1	3"	3/0	5	1200	S300-2	1216	4	5	500	4"	250	
500	800	P500	760	2	3	500	1/0	4"	3/0	5	1600	S500-2	1608	6	5	400	4"	300	
750	1200	P750	1260	4	3	350	3/0	3"	3/0	5	3000	S750-2	3040	10	5	500	4"	750	

- NOTES:  
① GROUNDING ELECTRODE CONDUCTOR, (NEC 250.66)  
② SUPPLY SIDE BONDING JUMPER, (NEC 250.102 (C)(1))

- KEYNOTES  
X1 EXISTING WESTINGHOUSE ELECTRIC CORPORATION POW-R-LINE 1000A 288V 3P SWITCHBOARD TO REMAIN AND BE PROTECTED IN PLACE. CONTRACTOR SHALL PROVIDE NEW BREAKERS WITHIN WESTINGHOUSE POW-R-LINE EQUIPMENT. COORDINATE REQUIREMENTS AND PART NUMBERS OF NEW WESTINGHOUSE BREAKER KITS AND ALL NECESSARY EQUIPMENT WITH EATON REPRESENTATIVE.  
X2 PROVIDE NEW BREAKERS. UTILIZE EXISTING SPACES WITHIN EQUIPMENT.  
X3 FEEDER UPSIZED FOR VOLTAGE DROP. PROVIDE ALL REQUIRED LUG ADAPTERS, PIN REDUCERS, POLARIS LUG KITS, ETC. AS REQUIRED. PROVIDE NEC SIZED JUNCTION BOX AHEAD OF PANELBOARD/GEAR AS NEEDED TO LOCATED AND TERMINATE CONDUCTORS ON POLARIS LUG ADAPTERS (<10' FROM FINAL TERMINATION AT PANELBOARD). #6 SIZE DOWN TO CONDUCTORS THAT FIT THE AVAILABLE LUGS AND/OR BREAKERS.

ALUMINUM CONDUCTOR & CONDUIT SCHEDULE						
TYPE	MAX. O.C. PROT.	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUIT SIZE	EQ. GND. COND.(AL)
100-5	100	96	1	5"	10"	4"
125-5	125	120	1	3	10"	2"
125-4	125	120	1	4	10"	2"
125-5	125	124	1	5"	30"	3"
150-3	150	135	1	3	20"	2"
150-4	150	135	1	4	20"	2"
150-5	150	144	1	5"	40"	3"
175-3	175	155	1	3	30"	2"
175-4	175	155	1	4	30"	2"
175-5	175	164	1	5"	250"	3"
200-3	200	180	1	3	40"	2"
200-4	200	180	1	4	40"	3"
200-5	200	184	1	5"	300"	3"
225-3	225	205	1	3	250"	2"
225-4	225	205	1	4	250"	3"
225-5	225	216	1	5"	400"	3"
250-3	250	230	1	3	300"	2"
250-4	250	230	1	4	300"	3"
250-5	250	248	1	5"	500"	4"
300-3	300	270	1	3	400"	3"
300-4	300	270	1	4	400"	3"
300-5	300	270	1	5"	600"	4"
350-4	350	310	1	3	500"	4"
350-5	350	308	1	5"	750"	4"
400-3	400	410	2	3	250"	2-1/2"
400-4	400	410	2	4	250"	2-1/2"
400-5	400	400	2	5"	350"	3"
600-3	600	620	2	3	500"	3"
600-4	600	620	2	4	500"	3"
600-5	600	600	3	5"	350"	3"
800-3	800	810	3	3	400"	2-1/2"
800-4	800	810	3	4	400"	3"
800-5	800	800	4	5"	350"	4"
1000-3	1000	1155	3	3	750"	4"
1000-4	1000	1155	3	4	750"	4"
1000-5	1000	1000	5	5"	350"	4"
1200-3	1200	1240	4	3	500"	4"
1200-4	1200	1240	4	4	500"	4"
1200-5	1200	1240	5	5"	500"	4"
1600-3	1600	1620	6	3	400"	4"
1600-4	1600	1620	6	4	400"	4"
1600-5	1600	1736	7	5"	500"	4"
2000-4	2000	2310	6	4	750"	4"
2500-4	2500	2695	7	4	750"	5"
3000-4	3000	3080	8	4	750"	5"
4000-4	4000	4235	11	4	750"	5"

NOTES:  
IN PARALLEL RUNS SIZE GND. COND. IN ACCORDANCE WITH NEC PARA. 250.122.  
GND. CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS

\* 200% NEUTRAL DERATED TO 80% BASED ON NEC 310.15.B(3)(C)  
\*\* COPPER CONDUCTOR (XHHW)

PROVIDE COMPACT STRANDED ALUMINUM ASSOCIATION 8000 SERIES ALLOY CONDUCTORS.

PROVIDE TERMINATION FOR ALUMINUM ALLOY CONDUCTORS OF HYDRAULIC COMPRESSION TYPE ONLY, LISTED UNDER UL 486-B, MARKED "AL/CU" FOR 75 DEGREE RATED CIRCUITS.

PROVIDE ALL ELECTRICAL EQUIPMENT WITH PROPER SIZING TO ACCOMMODATE ALUMINUM CONDUCTORS. COORDINATE WITH EQUIPMENT SUPPLIER.

COPPER CONDUCTOR & CONDUIT SCHEDULE						
TYPE	MAX. O.C. PROT.	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUIT SIZE	EQ. GND. COND.(CU)
30-2	30	30	1	2	10"	3/4"
30-3	30	30	1	3	10"	3/4"
30-4	30	30	1	4	10"	3/4"
40-2	40	40	1	2	8"	1"
40-3	40	40	1	3	8"	1"
40-4	40	40	1	4	8"	1"
60-2	60	55	1	2	6"	1"
60-3	60	55	1	3	6"	1"
60-4	60	55	1	4	6"	1"
70-2	70	70	1	2	4"	1"
70-3	70	70	1	3	4"	1-1/4"
70-4	70	70	1	4	4"	1-1/4"
90-2	90	85	1	2	3"	1-1/4"
90-3	90	85	1	3	3"	1-1/4"
90-4	90	85	1	4	3"	1-1/2"
100-3	100	95	1	3	2"	1-1/2"
100-4	100	95	1	4	2"	1-1/2"



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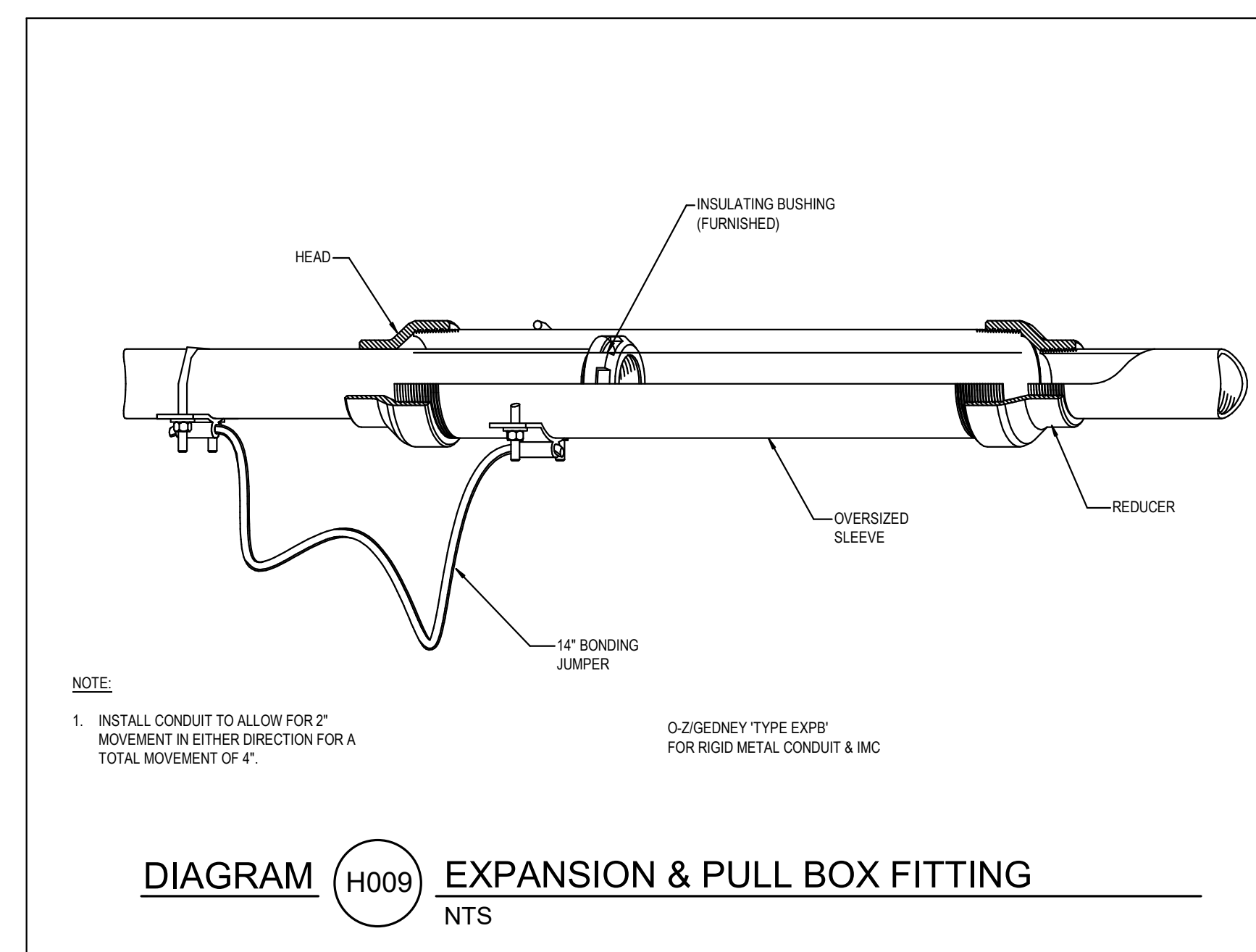
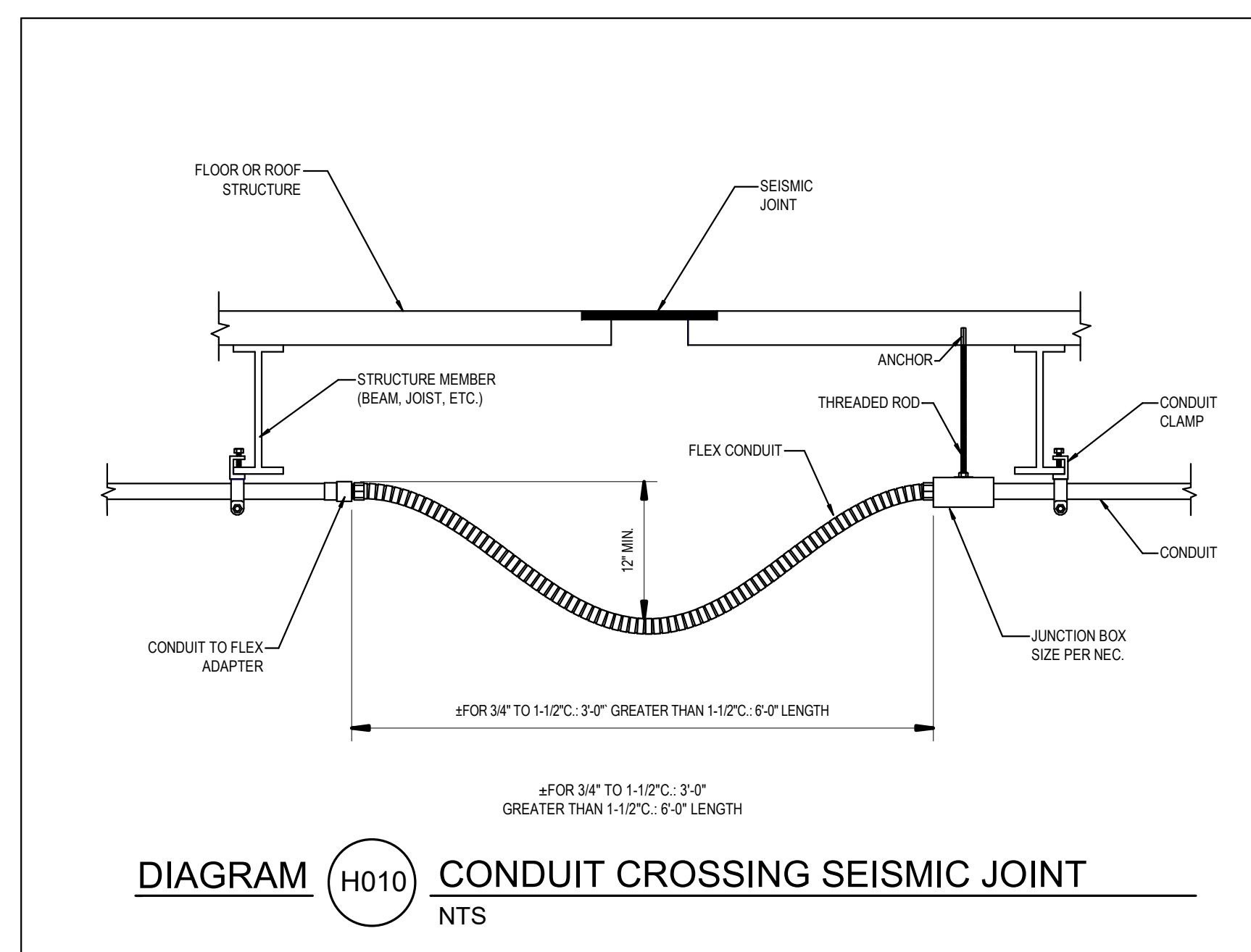
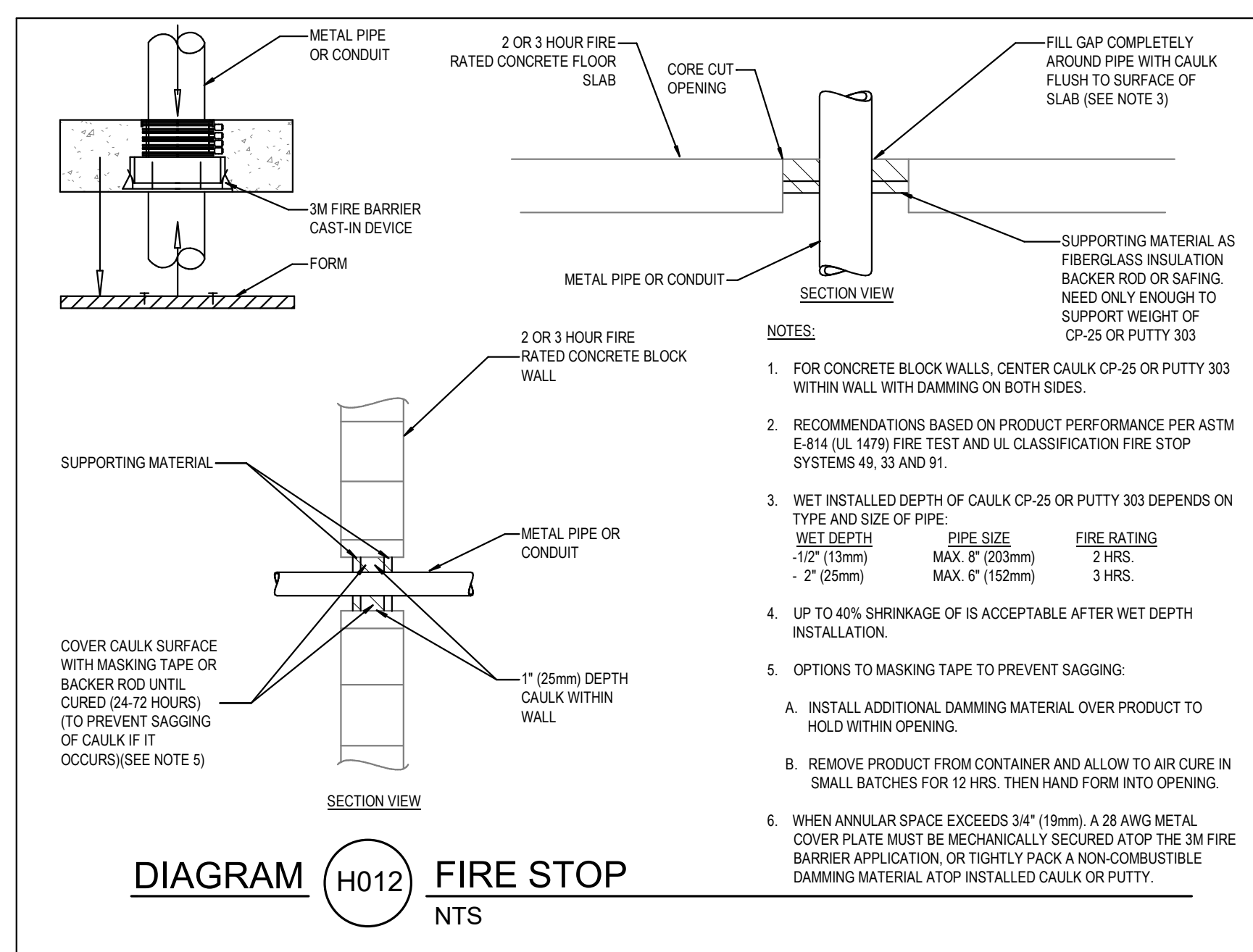
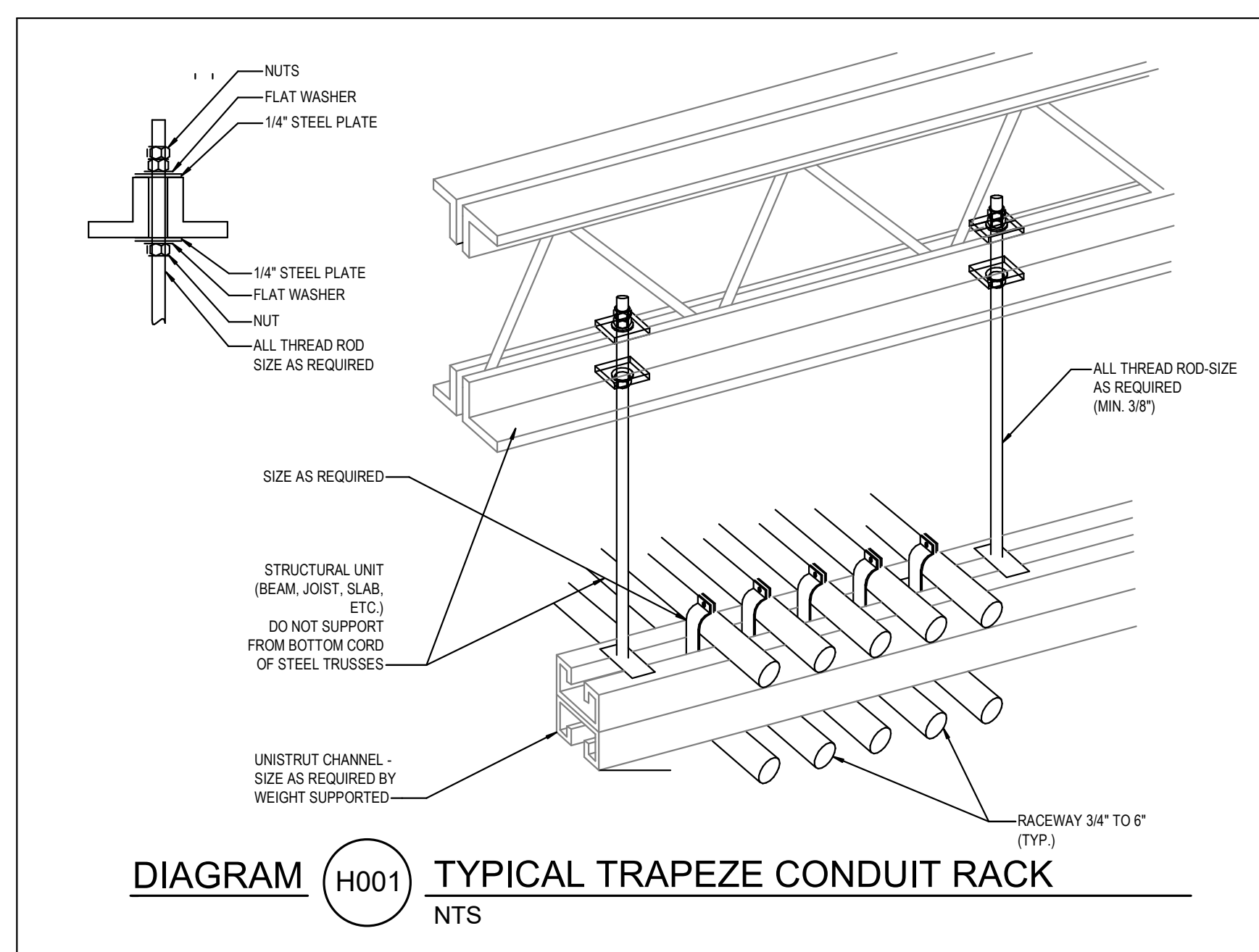
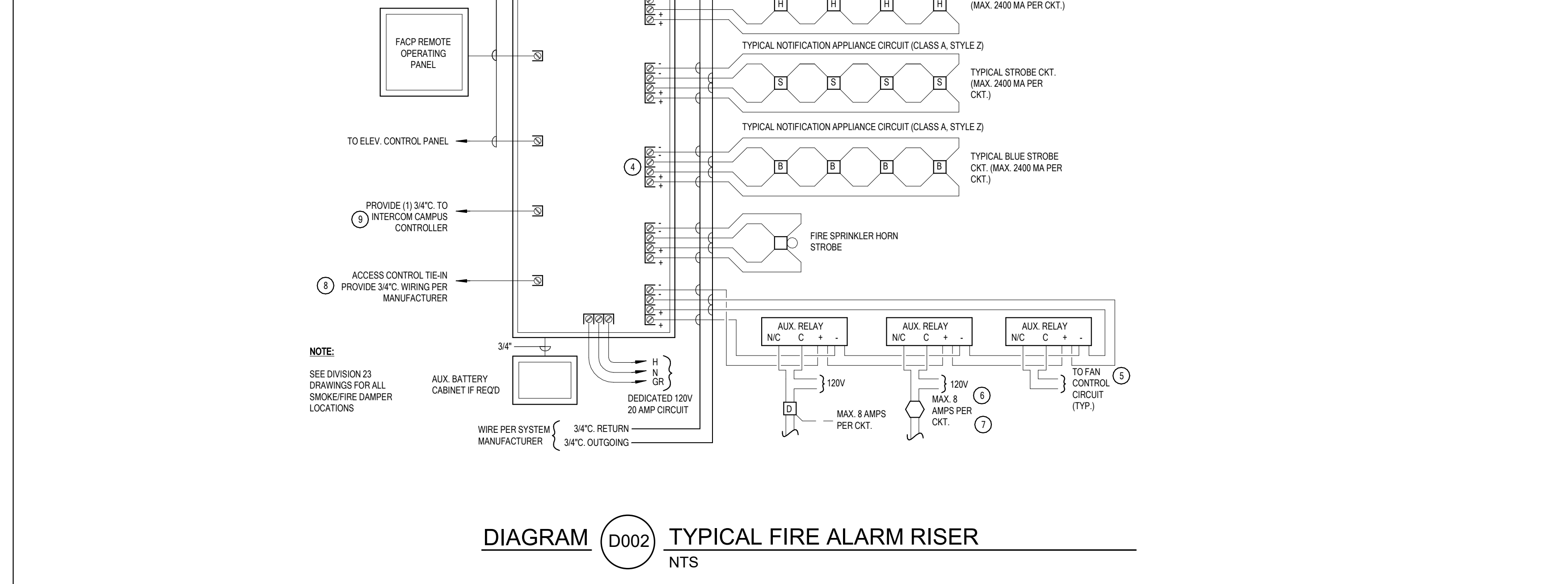
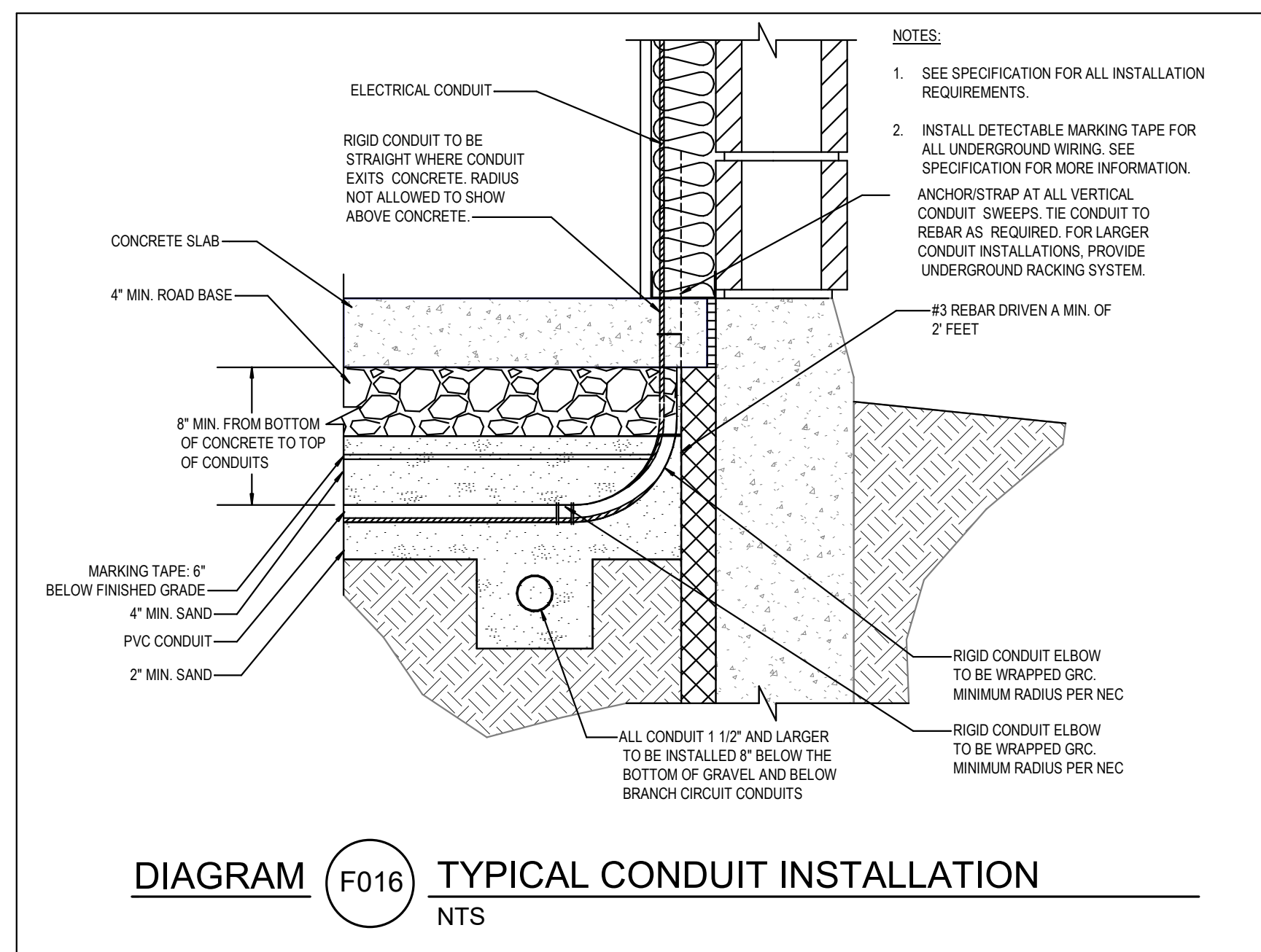
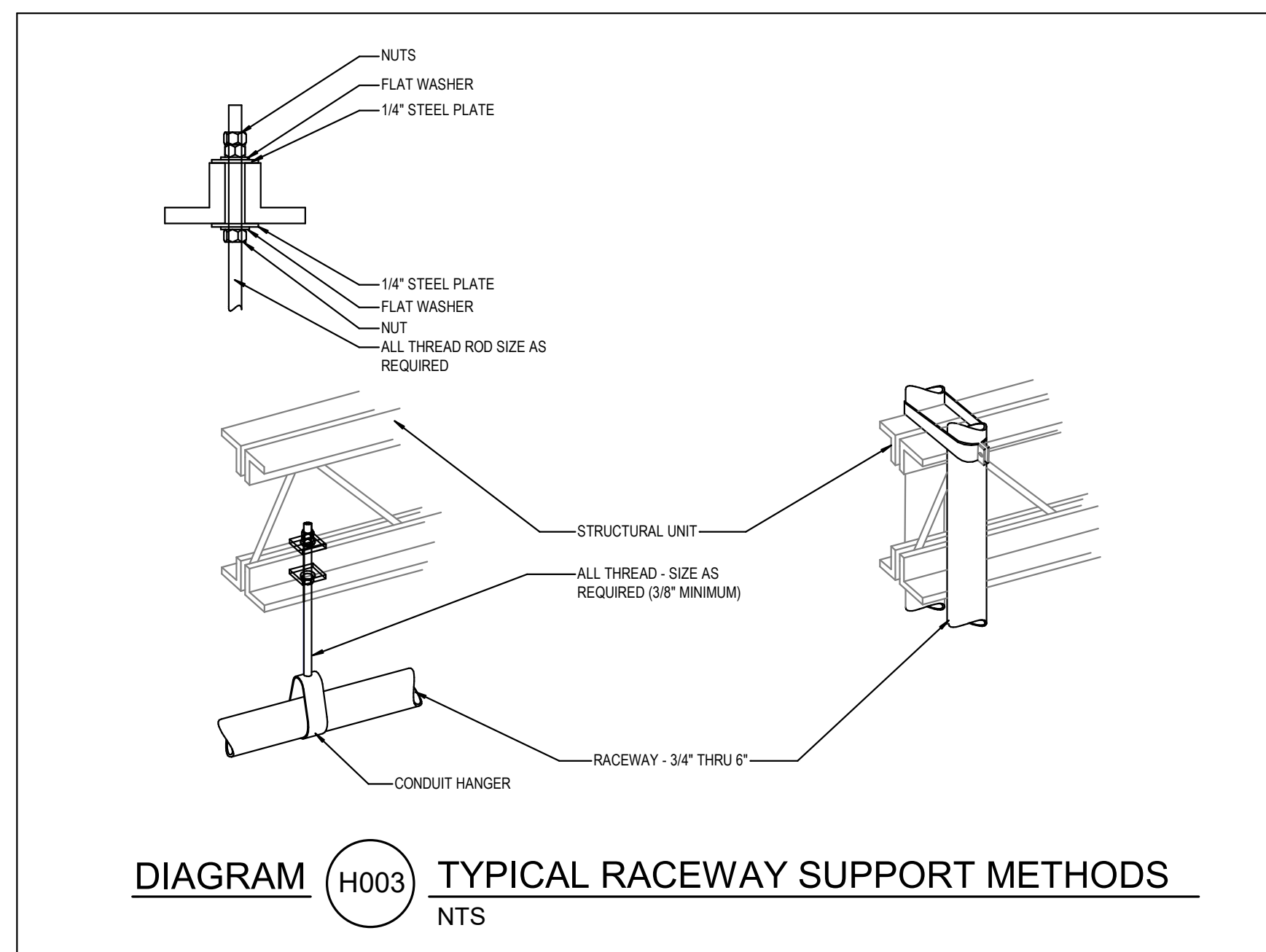
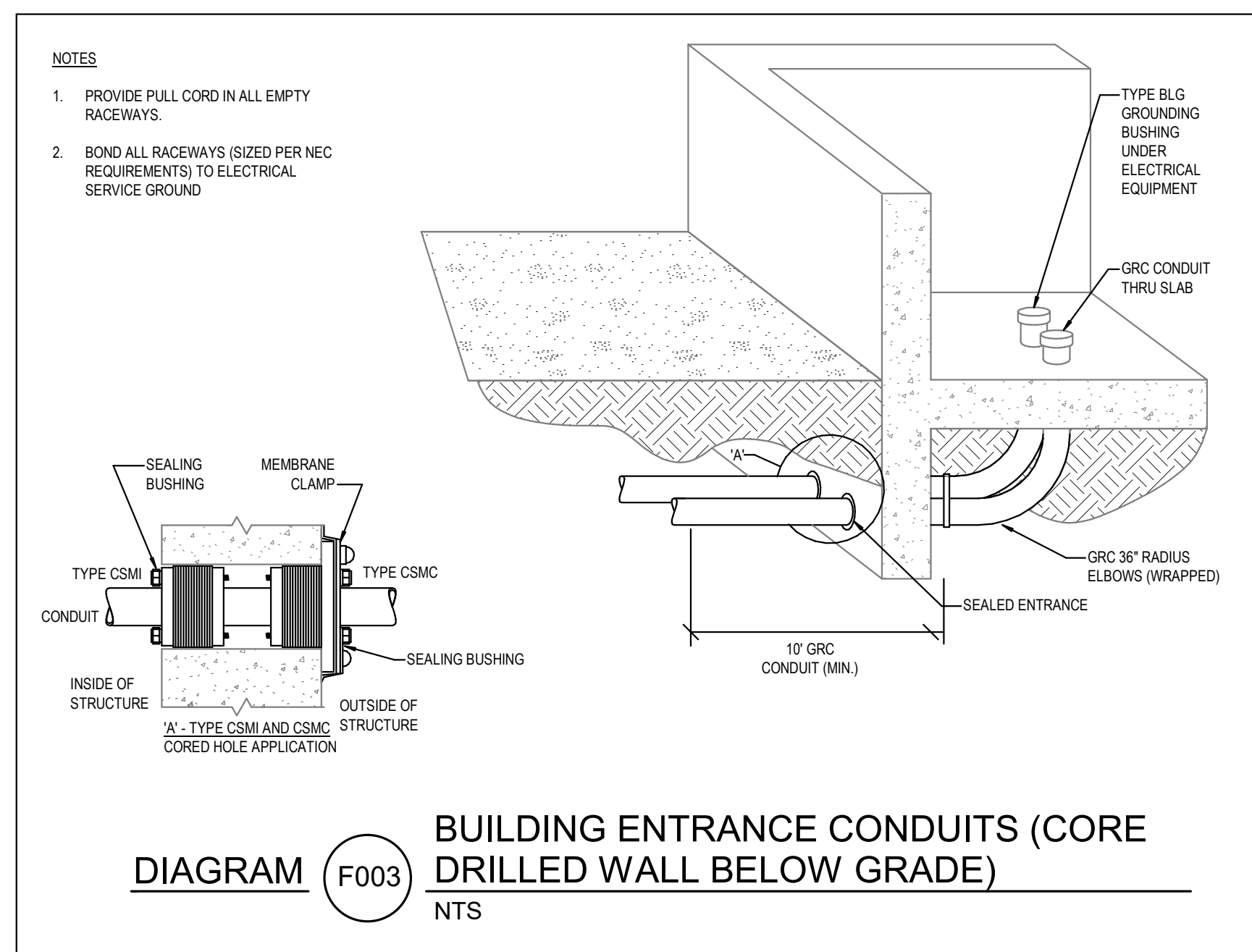
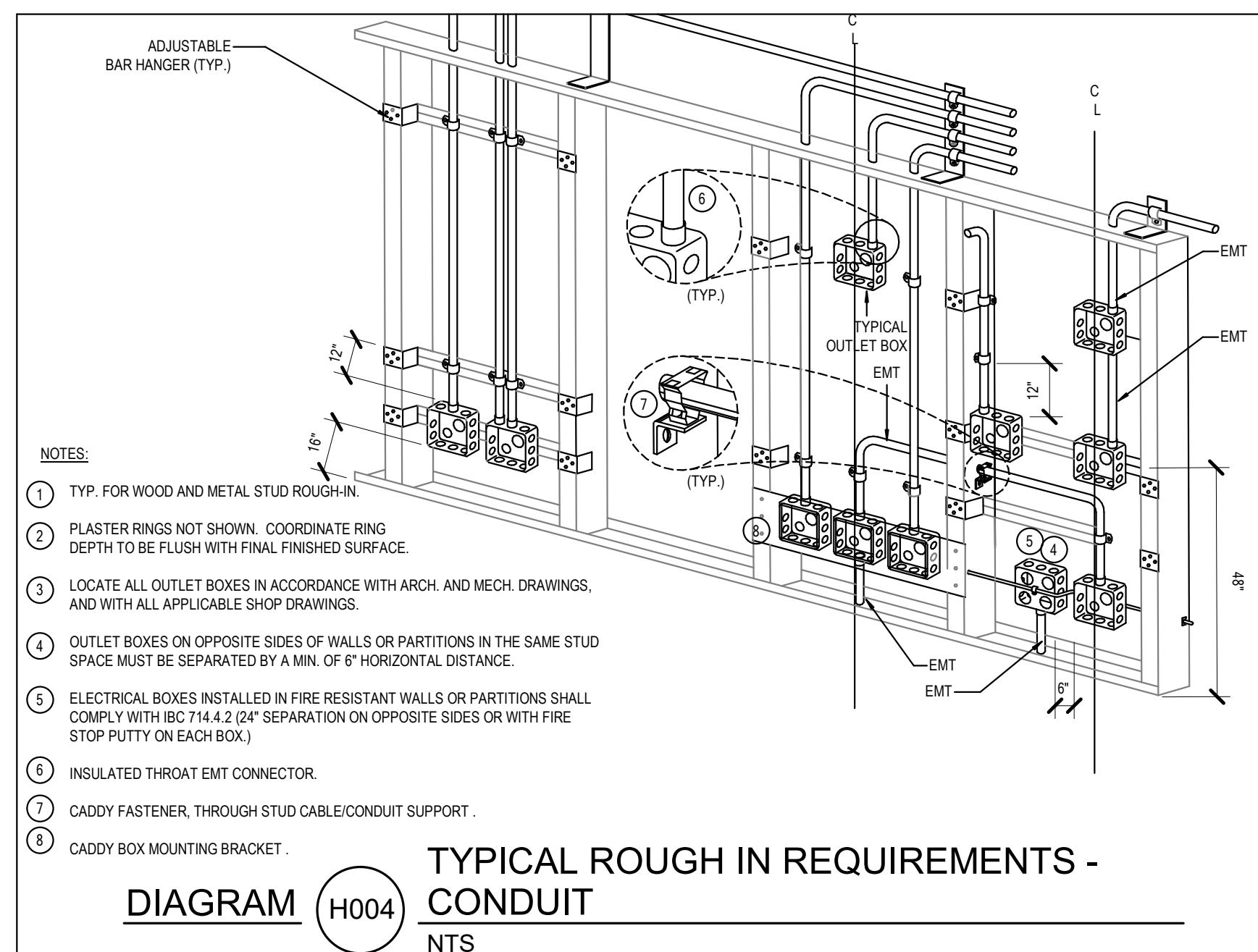
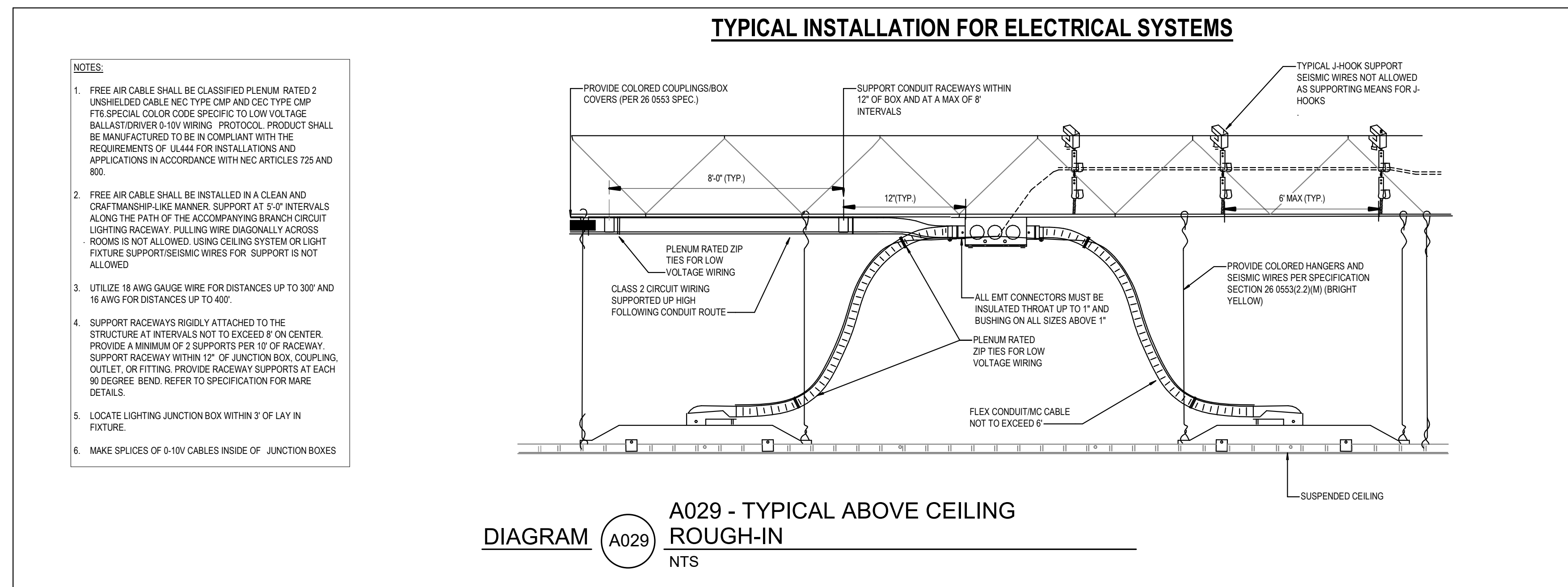
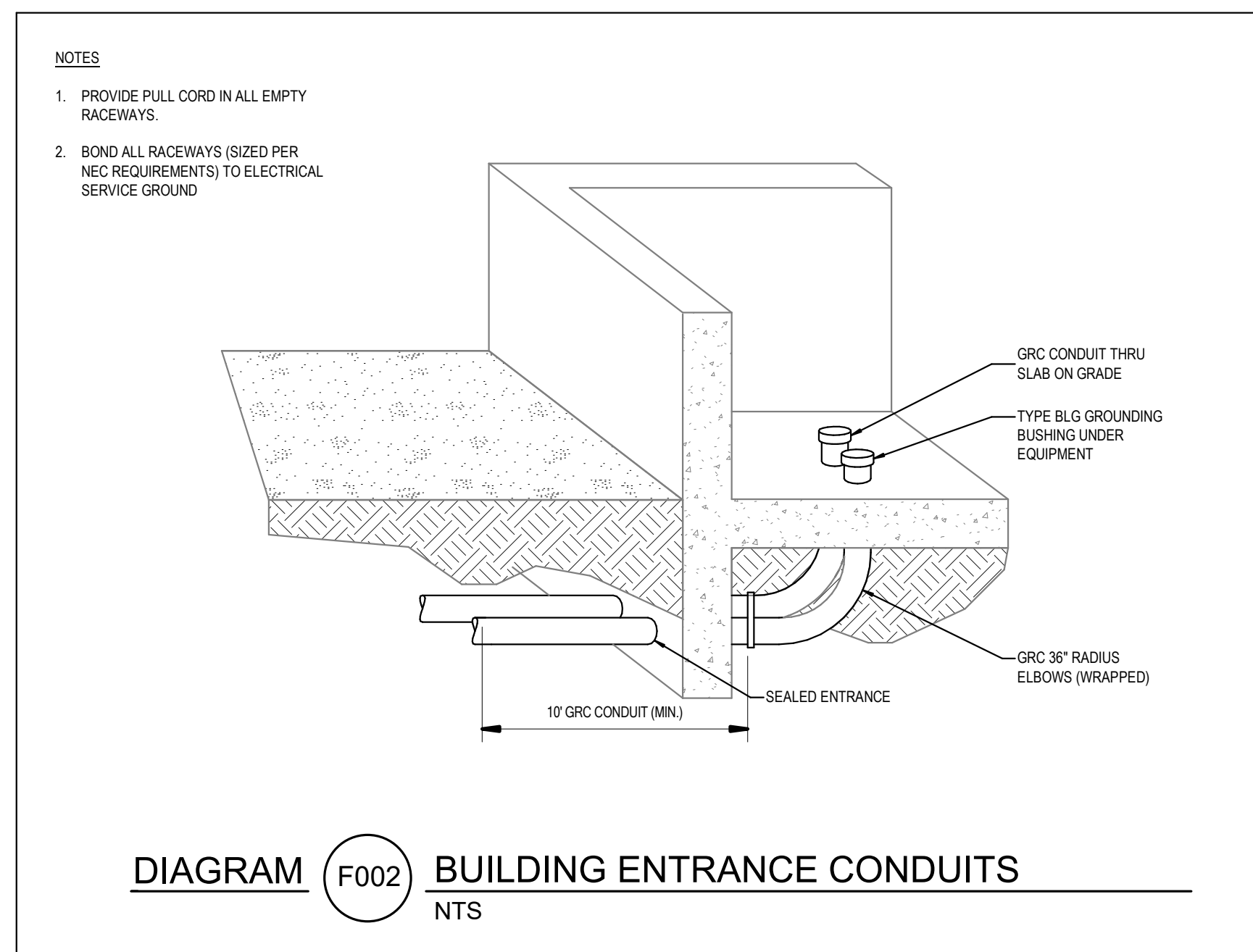
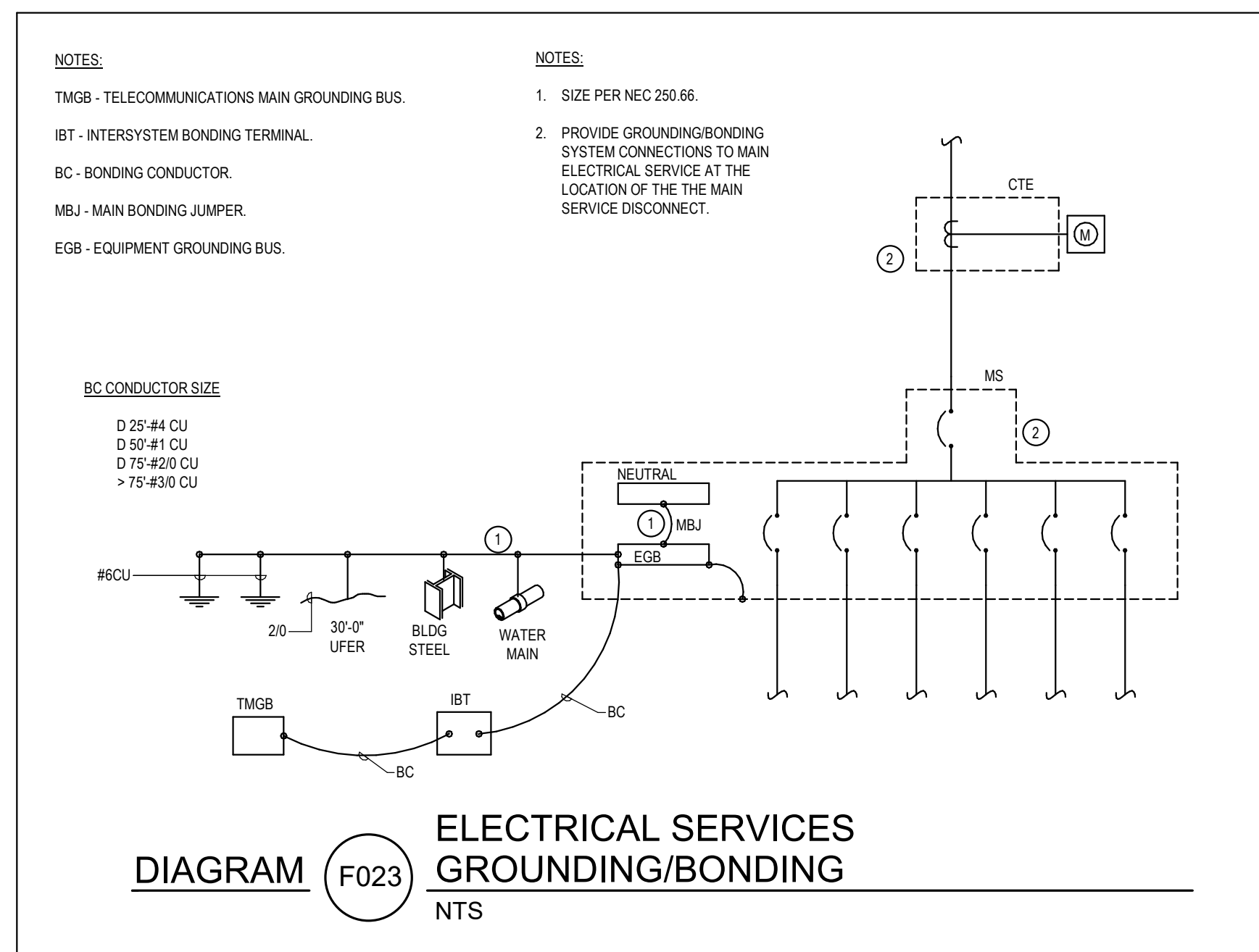
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155 EAST 200 SOUTH  
MECHANICAL UPGRADE  
ORANGEVILLE, UTAH

PROJECT TITLE

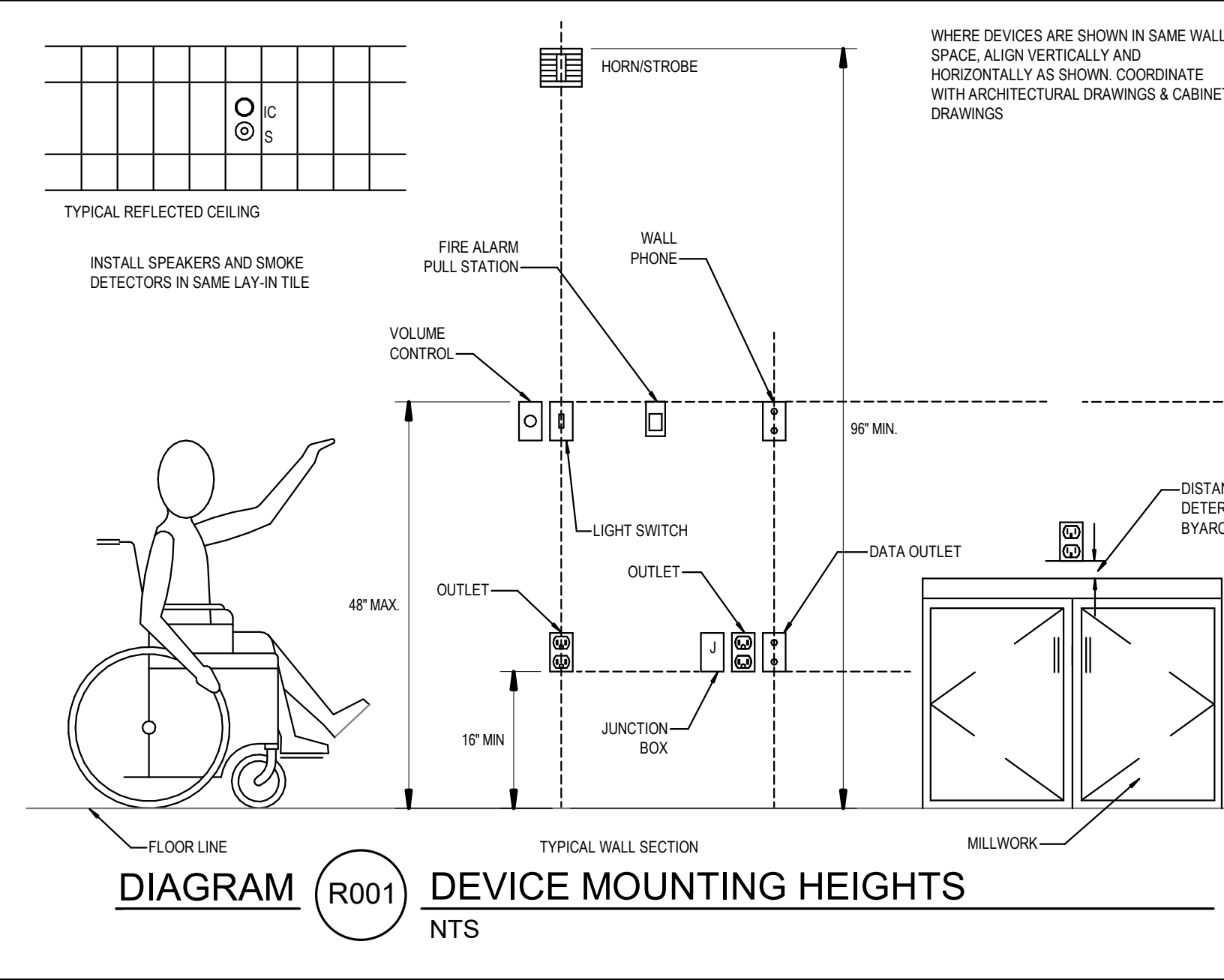
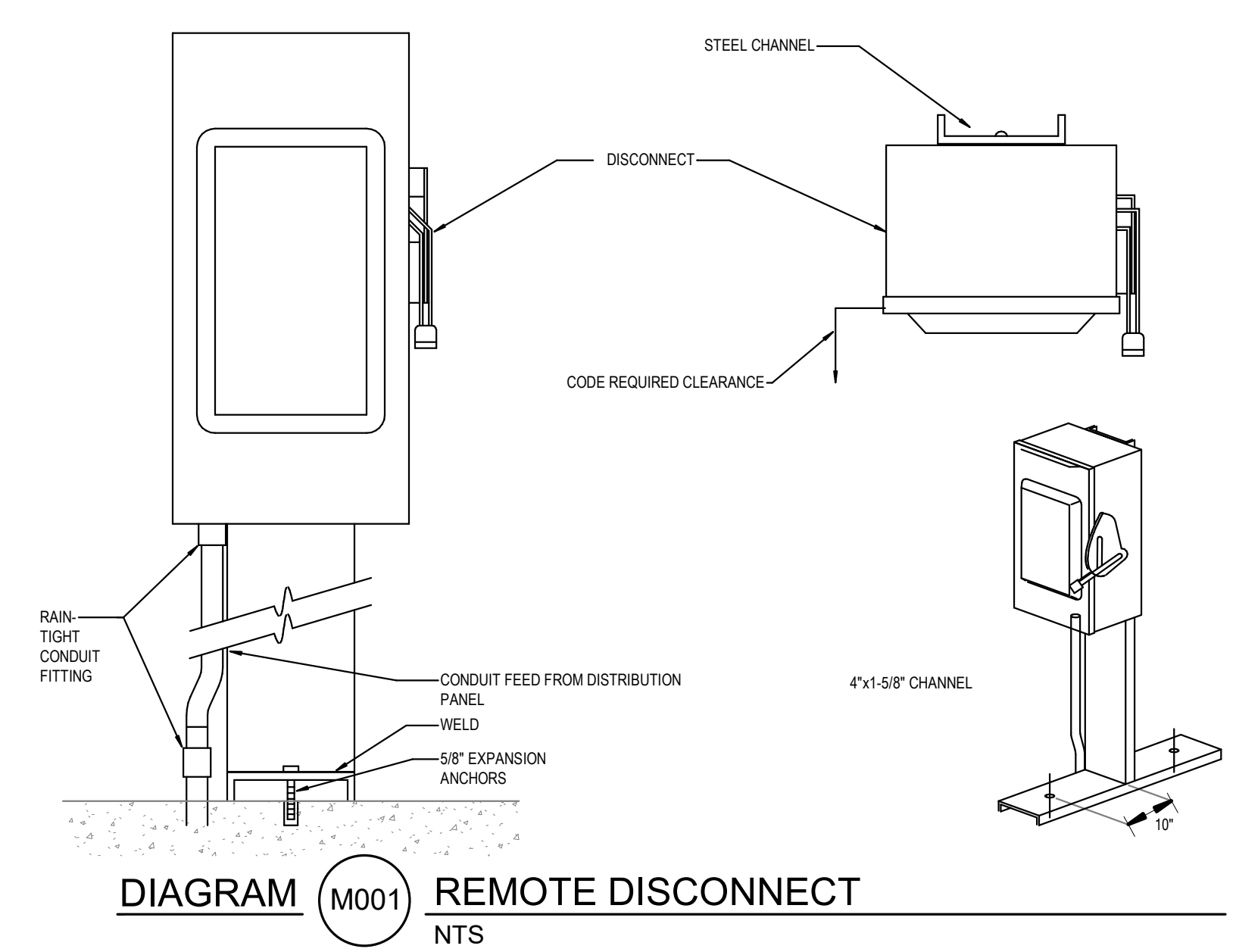
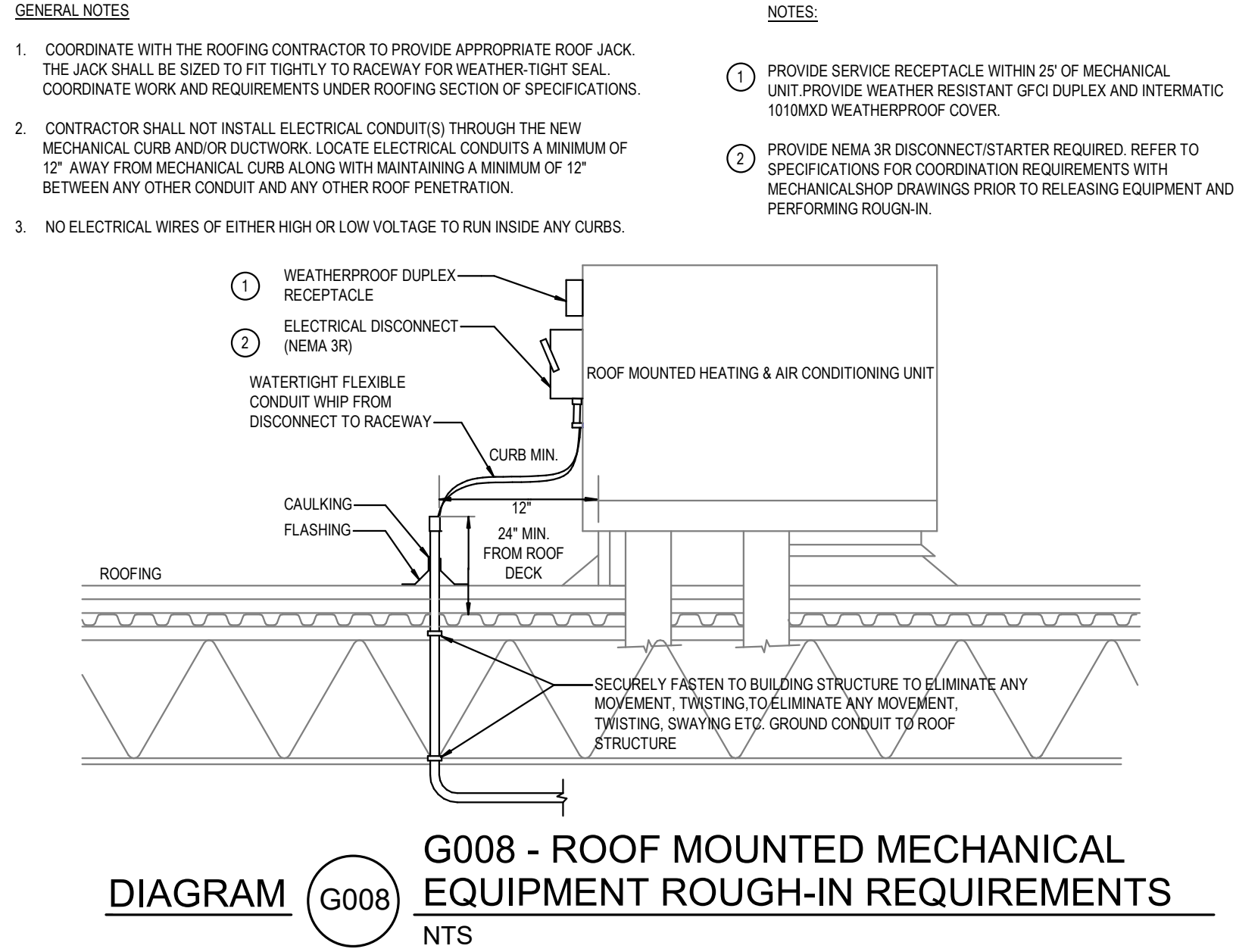
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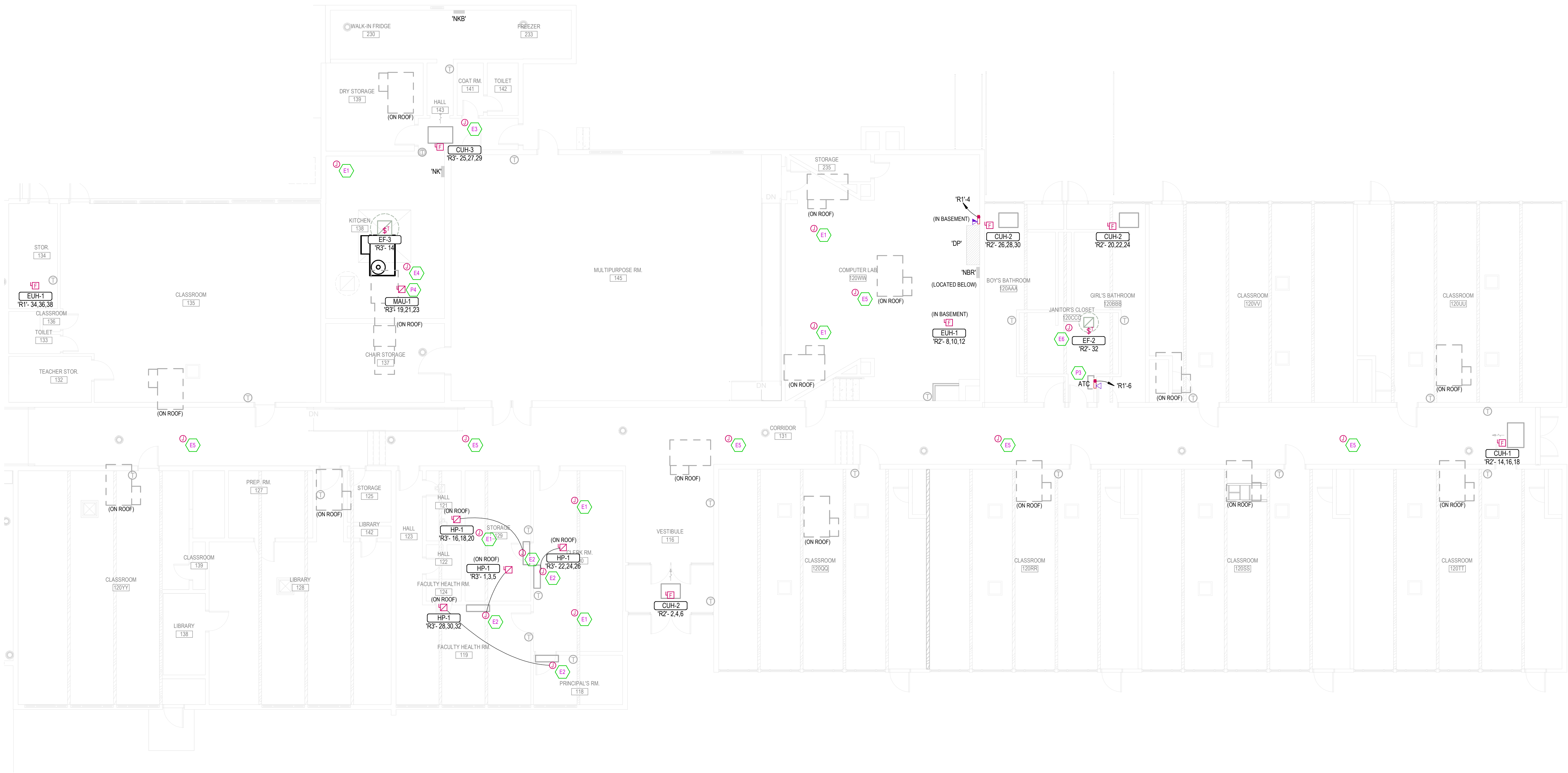






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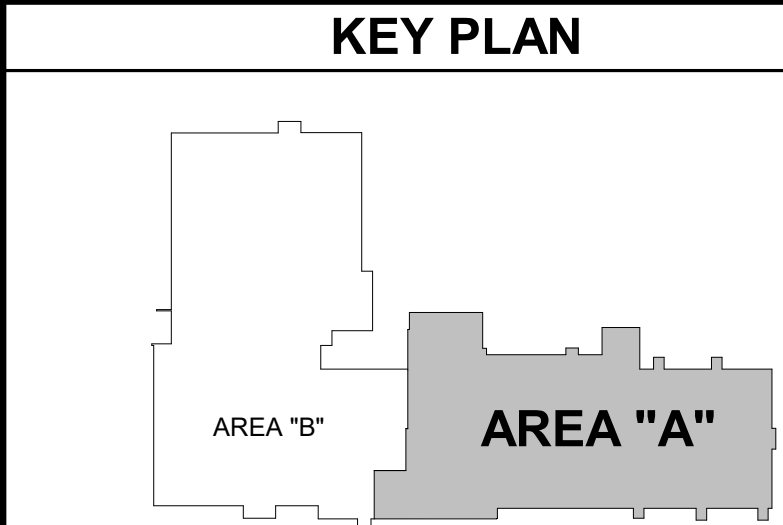
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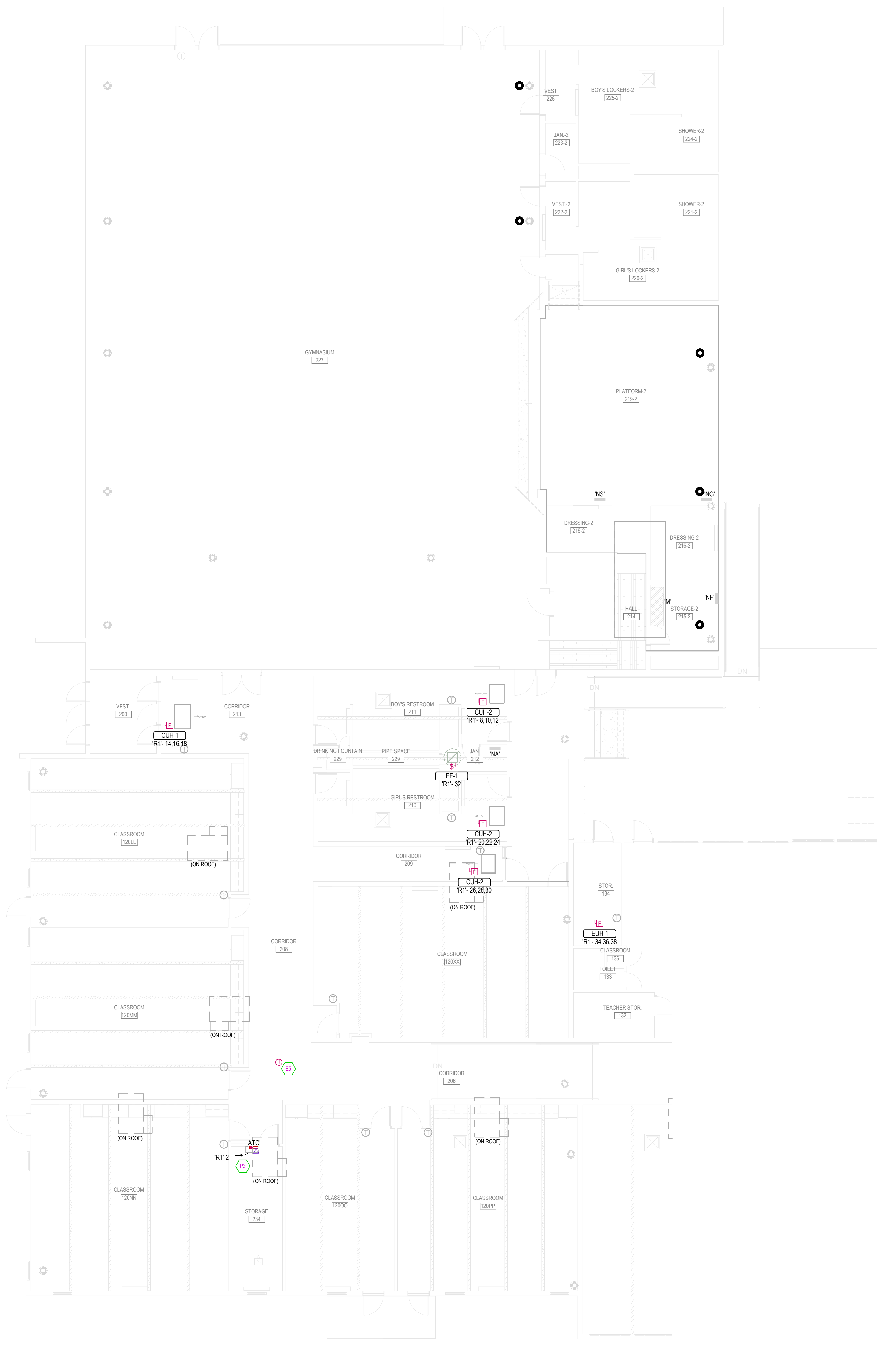
 MAIN FLOOR POWER PLAN AREA A  
SCALE = 1/8" = 1'-0"

- KEYNOTES**
- E1 EXISTING CEILING FAN TO BE DEMOLISHED. DISCONNECT POWER AND MAINTAIN CIRCUIT INTEGRITY.
  - E2 INDOOR UNIT FED BY OUTDOOR UNIT.
  - E3 EXISTING UNIT HEATER TO BE DEMOLISHED. DIV. 26 TO DISCONNECT AND REMOVE CONDUCTORS COMPLETELY.
  - E4 EXISTING MAKE-UP AIR UNIT TO BE DEMOLISHED. DIV. 26 TO DISCONNECT AND REMOVE CONDUCTORS COMPLETELY BACK TO SOURCE. RELABEL BREAKER AS SPARE.
  - E5 EXISTING EVAP UNIT TO BE DEMOLISHED. DIV. 26 TO DISCONNECT AND REMOVE CONDUCTORS COMPLETELY BACK TO SOURCE. RELABEL BREAKER AS SPARE.
  - E6 NEW EXHAUST FAN TO REPLACE EXISTING. PROVIDE NEW CIRCUIT AS INDICATED. DISCONNECT EXISTING UNIT AND REMOVE EXISTING CONDUCTORS BACK TO SOURCE.
  - P3 PROVIDE (1) GATE DROP TO NEAREST DATA ROOM/RACK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ROUTING AND DATA ROOM/RACK LOCATION.
  - P4 DIV. 26 TO EXTEND CONDUIT BETWEEN MAU AND MAU CONTROL PANEL. COORDINATE LOCATION WITH HVAC INSTALLER.

- POWER GENERAL SHEET NOTES**
- COORDINATE PLACEMENT OF ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE DEVICES ARE SHOWN IN SAME WALL SPACE, ALIGN VERTICALLY AND HORIZONTALLY. COORDINATE WITH ARCHITECTURAL DRAWINGS, ATHLETIC SAFETY WALL PADDING AND CABINETRY DRAWINGS.
  - ALL THE LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIOVISUAL EQUIPMENT, SOUND AMPLIFICATION, ETC. TO BE ROUTED THROUGH CONDUIT IN EXPOSED AND CLOUDED CEILING AREAS.
  - ALL LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIOVISUAL EQUIPMENT, CLASSROOM SOUND AMPLIFICATION, ETC. TO BE PROPERLY SUPPORTED PER THE TELEDATA SPEC. AND AT 9'-0" INTERVALS AND TO FOLLOW BUILDING STRUCTURAL LINES. PULLING WIRE DIAGONALLY ACROSS ROOMS IS NOT ALLOWED. USING CEILING SYSTEM OR LIGHT FIXTURE SUPPORT/SEISMIC WIRES FOR SUPPORT IS NOT ALLOWED.
  - PROVIDE GFCI PROTECTION ON ALL DEVICES AND EQUIPMENT PER THE NEC REQUIREMENTS. DEVICES SHALL BE READILY ACCESSIBLE. IF ANY OUTLET IS INSTALLED WITHIN 6 FEET OF OUTSIDE EDGE OF SINK, CONTRACTOR SHALL PROVIDE GFCI RECEPTACLE PER NEC, WHETHER SHOWN OR NOT.
  - ALL RECEPTACLES LOCATED THROUGHOUT THE BUILDING SHALL BE TAMPER RESISTANT PER NEC 406.12.
  - ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
  - FOR VAV POWER, PROVIDE A DEDICATED 120V/20A CIRCUIT FROM A PANEL LOCATED IN THE ELECTRICAL ROOM OF THE ASSOCIATED QUADRANT. COORDINATE EXACT LOCATION OF ALL VAV BOXES WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
  - PROVIDE 120V CIRCUIT FROM NEAREST PROVIDED CIRCUIT FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER.
  - CONTRACTOR TO COORDINATE ALL LOCATIONS OF FIRE/SMOKE AND SMOKE DAMPERS WITH MECHANICAL CONTRACTOR. CONTRACTOR TO PROVIDE POWER, MONITOR MODULES, AND RELAYS AS REQUIRED FOR A COMPLETE SYSTEM.
  - DIVISION 26 IS RESPONSIBLE TO PROVIDE CONDUIT AND ROUGH-IN FOR ALL THERMOSTAT CONTROLS LOCATED WITHIN WALLS. COORDINATE WITH THE CONTROLS CONTRACTOR AND VERIFY EXACT LOCATION OF ALL THERMOSTATS.



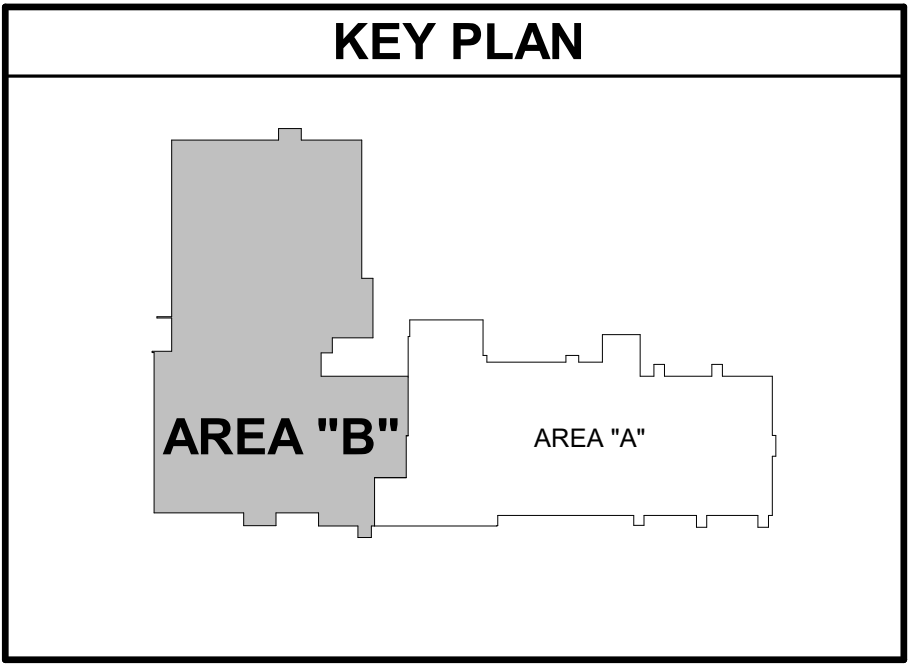




 MAIN FLOOR POWER PLAN AREA B  
SCALE = 1/8" = 1'-0"

KEYNOTES	
ES	EXISTING EVAP UNIT TO BE DEMOLISHED. DIV. 26 TO DISCONNECT AND REMOVE CONDUCTORS COMPLETELY BACK TO SOURCE. RELABEL BREAKER AS SPARE.
P3	PROVIDE (1) DATA DROP TO NEAREST DATA ROOM/RACK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ROUTING AND DATA ROOM/RACK LOCATION.

POWER GENERAL SHEET NOTES	
1.	COORDINATE PLACEMENT OF ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE DEVICES ARE SHOWN IN SAME WALL SPACE, ALIGN VERTICALLY AND HORIZONTALLY. COORDINATE WITH ARCHITECTURAL DRAWINGS, ATHLETIC SAFETY WALL PADDING AND CABINETRY DRAWINGS.
2.	ALL THE LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIOVISUAL EQUIPMENT, SOUND AMPLIFICATION, ETC. TO BE ROUTED THROUGH CONDUIT IN EXPOSED AND CLOUDED CEILING AREAS.
3.	ALL LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIOVISUAL EQUIPMENT, CLASSROOM SOUND AMPLIFICATION, ETC. TO BE PROPERLY SUPPORTED PER THE TELE/DATA SPEC. AND AT 5'-0" INTERVALS AND TO FOLLOW BUILDING STRUCTURAL LINES. PULLING WIRE DIAGONALLY ACROSS ROOMS IS NOT ALLOWED. USING CEILING SYSTEM OR LIGHT FIXTURE SUPPORT/SEISMIC WIRES FOR SUPPORT IS NOT ALLOWED.
4.	PROVIDE GFCI PROTECTION ON ALL DEVICES AND EQUIPMENT PER THE NEC REQUIREMENTS. DEVICES SHALL BE READILY ACCESSIBLE. IF ANY OUTLET IS INSTALLED WITHIN 6 FEET OF OUTSIDE EDGE OF SINK, CONTRACTOR SHALL PROVIDE GFCI RECEPTACLE PER NEC, WHETHER SHOWN OR NOT.
5.	ALL RECEPTACLES LOCATED THROUGHOUT THE BUILDING SHALL BE TAMPER RESISTANT PER NEC 406.12.
6.	ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
7.	FOR VAV POWER, PROVIDE A DEDICATED 120V/20A CIRCUIT FROM A PANEL LOCATED IN THE ELECTRICAL ROOM OF THE ASSOCIATED QUADRANT. COORDINATE EXACT LOCATION OF ALL VAV BOXES WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
8.	PROVIDE 120V CIRCUIT FROM NEAREST PROVIDED CIRCUIT FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER.
9.	CONTRACTOR TO COORDINATE ALL LOCATIONS OF FIRE/SMOKE AND SMOKE DAMPERS WITH MECHANICAL CONTRACTOR, CONTRACTOR TO PROVIDE POWER, MONITOR MODULES, AND RELAYS AS REQUIRED FOR A COMPLETE SYSTEM.
10.	DIVISION 26 IS RESPONSIBLE TO PROVIDE CONDUIT AND ROUGH-IN FOR ALL THERMOSTAT CONTROLS LOCATED WITHIN WALLS. COORDINATE WITH THE CONTROLS CONTRACTOR AND VERIFY EXACT LOCATION OF ALL THERMOSTATS.



PROJECT TITLE  
EMERY SCHOOL DISTRICT  
**COTTONWOOD ELEMENTARY SCHOOL**  
155 EAST 200 SOUTH  
MECHANICAL UPGRADE  
ORANGEVILLE, UTAH

DRAWN BY: MK  
CHECKED BY: ES  
DATE: JAN. 2026  
PROJECT #: 176525

EP113

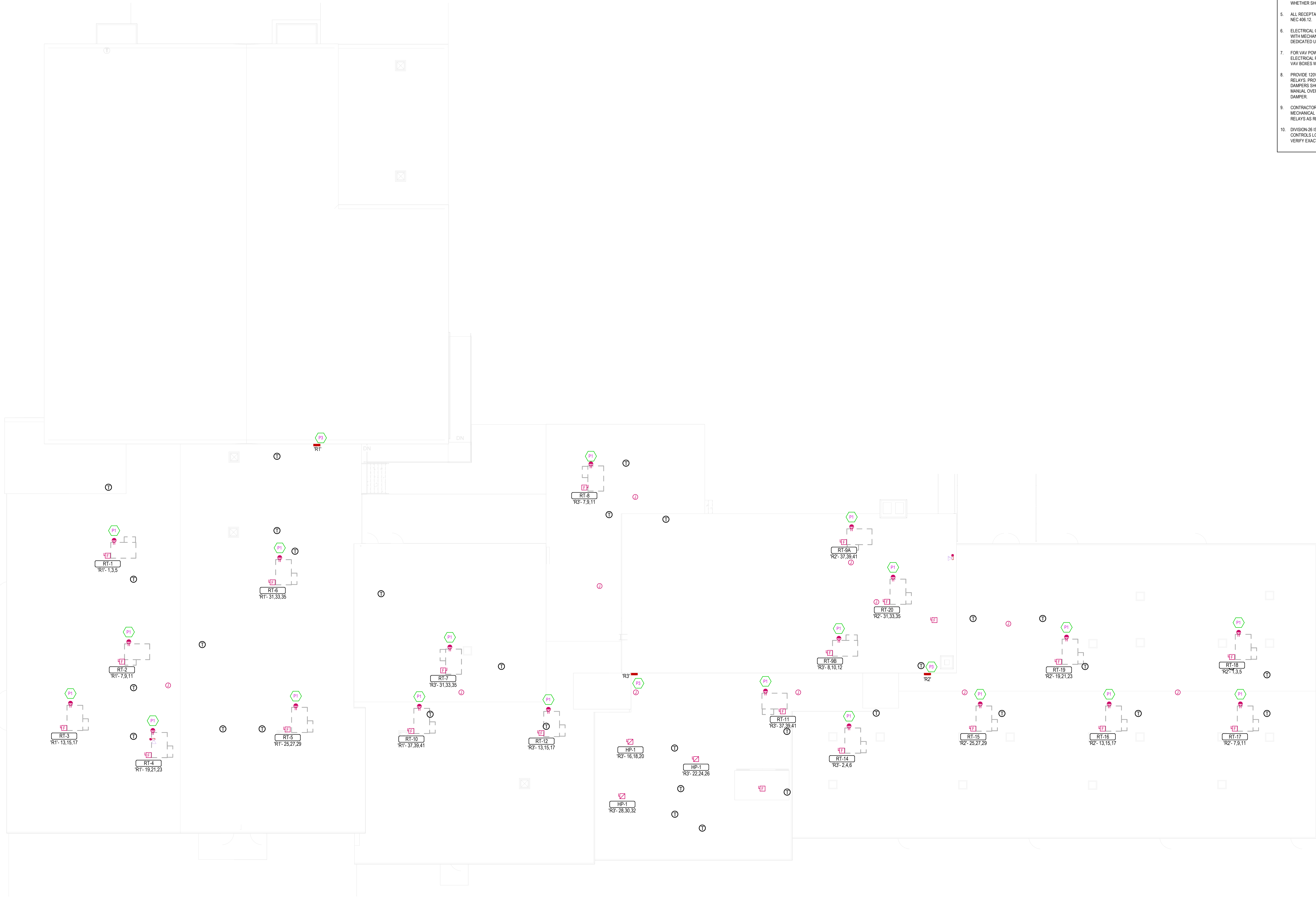
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OVERALL ROOF POWER PLAN  
SCALE = 1" = 10'-0"

#### KEYNOTES

- P1 FACTORY PROVIDED OUTLET. CONTRACTOR TO EXTEND 120V POWER FROM NEAREST AVAILABLE CIRCUIT.  
P2 PROVIDE (1) DATA DROP TO NEAREST DATA ROOM/RACK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ROUTING AND DATA ROOM/RACK LOCATION.

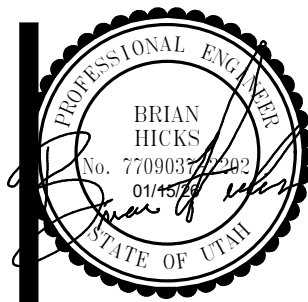
#### POWER GENERAL SHEET NOTES

- COORDINATE PLACEMENT OF ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE DEVICES ARE SHOWN IN SAME WALL SPACE, ALIGN VERTICALLY AND HORIZONTALLY. COORDINATE WITH ARCHITECTURAL DRAWINGS, ATHLETIC SAFETY WALL PADDING AND CABINETRY DRAWINGS.
- ALL THE LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIOVISUAL EQUIPMENT, SOUND AMPLIFICATION, ETC. TO BE ROUTED THROUGH CONDUIT IN EXPOSED AND CLOUDED CEILING AREAS.
- ALL LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIOVISUAL EQUIPMENT, CLASSROOM SOUND AMPLIFICATION, ETC. TO BE PROPERLY SUPPORTED PER THE TELE/DATA SPEC. AND AT 5'-0" INTERVALS AND TO FOLLOW BUILDING STRUCTURAL LINES. PULLING WIRE DIAGONALLY ACROSS ROOMS IS NOT ALLOWED. USING CEILING SYSTEM OR LIGHT FIXTURE SUPPORT/SEISMIC WIRES FOR SUPPORT IS NOT ALLOWED.
- PROVIDE GFCI PROTECTION ON ALL DEVICES AND EQUIPMENT PER THE NEC REQUIREMENTS. DEVICES SHALL BE READILY ACCESSIBLE. IF ANY OUTLET IS INSTALLED WITHIN 6 FEET OF OUTSIDE EDGE OF SINK, CONTRACTOR SHALL PROVIDE GFCI RECEPTACLE PER NEC, WHETHER SHOWN OR NOT.
- ALL RECEPTACLES LOCATED THROUGHOUT THE BUILDING SHALL BE TAMPER RESISTANT PER NEC 406.12.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
- FOR VAV POWER, PROVIDE A DEDICATED 100V/20A CIRCUIT FROM A PANEL LOCATED IN THE ELECTRICAL ROOM OF THE ASSOCIATED QUADRANT. COORDINATE EXACT LOCATION OF ALL VAV BOXES WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE 120V CIRCUIT FROM NEAREST PROVIDED CIRCUIT FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER.
- CONTRACTOR TO COORDINATE ALL LOCATIONS OF FIRE/SMOKE AND SMOKE DAMPERS WITH MECHANICAL CONTRACTOR, CONTRACTOR TO PROVIDE POWER, MONITOR MODULES, AND RELAYS AS REQUIRED FOR A COMPLETE SYSTEM.
- DIVISION 26 IS RESPONSIBLE TO PROVIDE CONDUIT AND ROUGH-IN FOR ALL THERMOSTAT CONTROLS LOCATED WITHIN WALLS. COORDINATE WITH THE CONTROLS CONTRACTOR AND VERIFY EXACT LOCATION OF ALL THERMOSTATS.

#### KEY PLAN



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#### REVISIONS:

PROJECT TITLE  
EMERY SCHOOL DISTRICT  
COTTONWOOD ELEMENTARY SCHOOL  
155 EAST 200 SOUTH  
ORANGEVILLE, UTAH  
MECHANICAL UPGRADE

DRAWN BY: MK  
CHECKED BY: ES  
DATE: JAN. 2026  
PROJECT #: 176525

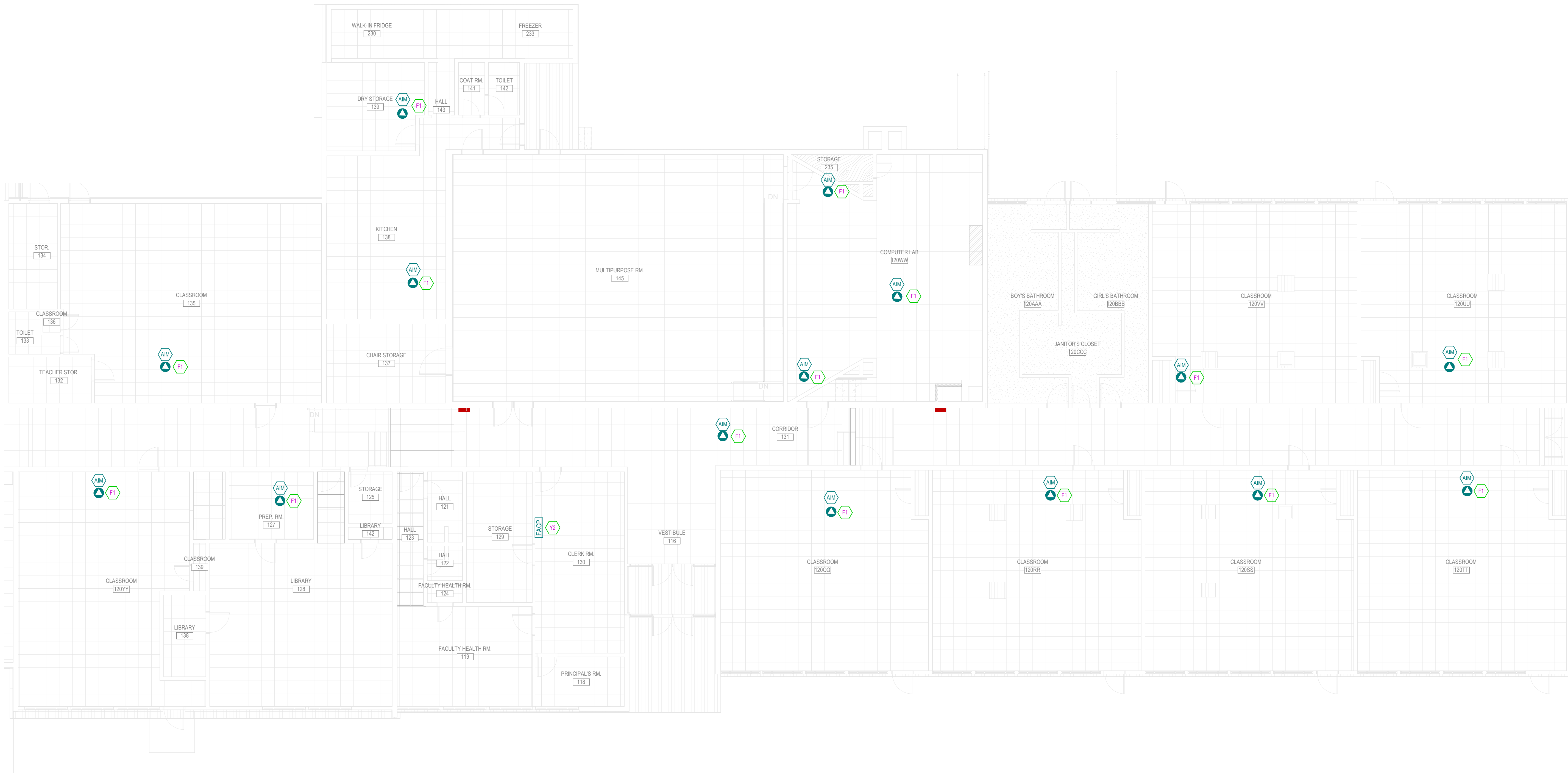
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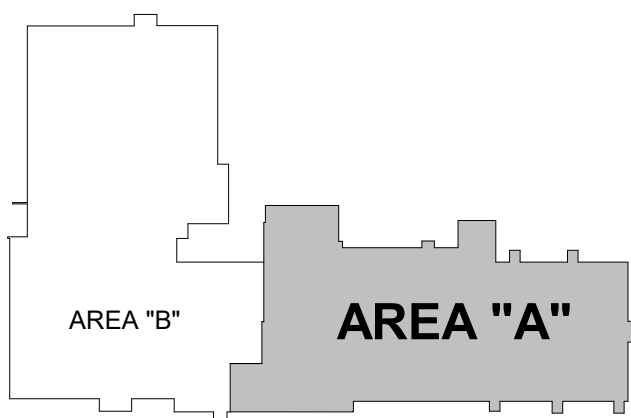
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MAIN FLOOR SYSTEM PLAN AREA A  
SCALE = 1/8" = 1'-0"

KEY PLAN



KEYNOTES

- F1 PROVIDE CONTROL MODULE WITH FAN SHUT DOWN RELAY FOR LOCAL CARBON MONOXIDE DETECTOR ACTIVATION. TIE TO LOCAL INITIATION LOOP. LOCATE CARBON MONOXIDE DETECTOR WITHIN THE FIRST ROOM SERVED BY THE DUCT.
- Y2 EXISTING SILENT KNIGHT 8808 FACP. EXPAND EXISTING CO DETECTION/INITIATION LOOPS TO INCLUDE NEW CO DETECTORS WITH MONITOR MODULES WITH FAN SHUT DOWN AS REQUIRED

POWER GENERAL SHEET NOTES

- COORDINATE PLACEMENT OF ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE DEVICES ARE SHOWN IN SAME WALL SPACE, ALIGN VERTICALLY AND HORIZONTALLY. COORDINATE WITH ARCHITECTURAL DRAWINGS, ATHLETIC SAFETY WALL PADDING AND CABINETRY DRAWINGS.
- ALL THE LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIOVISUAL EQUIPMENT, SOUND AMPLIFICATION, ETC. TO BE ROUTED THROUGH CONDUIT IN EXPOSED AND CLOUDED CEILING AREAS.
- ALL LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIOVISUAL EQUIPMENT, CLASSROOM SOUND AMPLIFICATION, ETC. TO BE PROPERLY SUPPORTED FOR THE TELECOM DATA SPEC. AND AT 5'-0" INTERVALS AND TO FOLLOW BUILDING STRUCTURAL LINES. PULLING WIRE DIAGONALLY ACROSS ROOMS IS NOT ALLOWED. USING CEILING SYSTEM OR LIGHT FIXTURE SUPPORTS/SLACK WIRES FOR SUPPORT IS NOT ALLOWED.
- PROVIDE GFCI PROTECTION ON ALL DEVICES AND EQUIPMENT PER THE NEC REQUIREMENTS. DEVICES SHALL BE READILY ACCESSIBLE. IF ANY OUTLET IS INSTALLED WITHIN 6 FEET OF OUTSIDE EDGE OF SINK, CONTRACTOR SHALL PROVIDE GFCI RECEPTACLE PER NEC, WHETHER SHOWN OR NOT.
- ALL RECEPTACLES LOCATED THROUGHOUT THE BUILDING SHALL BE TAMPER RESISTANT PER NEC 408.12.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
- FOR VAV POWER, PROVIDE A DEDICATED 120V/20A CIRCUIT FROM A PANEL LOCATED IN THE ELECTRICAL ROOM OF THE ASSOCIATED QUADRANT. COORDINATE EXACT LOCATION OF ALL VAV BOXES WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE 120V CIRCUIT FROM NEAREST PROVIDED CIRCUIT FOR FIRE SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE SMOKE DAMPER.
- CONTRACTOR TO COORDINATE ALL LOCATIONS OF FIRE SMOKE AND SMOKE DAMPERS WITH MECHANICAL CONTRACTOR. CONTRACTOR TO PROVIDE POWER, MONITOR MODULES, AND RELAYS AS REQUIRED FOR A COMPLETE SYSTEM.
- DIVISION 26 IS RESPONSIBLE TO PROVIDE CONDUIT AND ROUGH-IN FOR ALL THERMOSTAT CONTROLS LOCATED WITHIN WALLS. COORDINATE WITH THE CONTROLS CONTRACTOR AND VERIFY EXACT LOCATION OF ALL THERMOSTATS.

SYSTEMS SHEET NOTES

- CONNECT ELEVATOR LOBBY SMOKE DETECTORS TO ELEVATOR CONTROLLER FOR ELEVATOR RECALL. PROVIDE SHUNT TRIP DEVICE AT DISCONNECT FOR ALL ELEVATOR CONTROLLERS. PROVIDE A HEAT DETECTOR AT THE TOP OF ELEVATOR SHAFT AND ADJACENT TO EACH SPRINKLER HEAD IN ALL ELEVATOR MACHINE ROOMS. ACTIVATION OF HEAT DETECTOR TO INITIATE SHUNT TRIP.
- PROVIDE #14 AWG MINIMUM WIRING FOR ALL SIGNAL AND INITIATION DEVICES.
- ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH OWNER'S REP PRIOR TO INSTALLATION. NO ADDITIONAL COST TO THE OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO LACK OF COORDINATION WITH THE OWNER'S REP.
- ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN POURED CONCRETE, PRE-CAST CONCRETE, MASONRY AND GYP WALLS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT QUANTITY AND LOCATIONS OF ALL FIRE SPRINKLER SYSTEM TAMPERS AND FLOW SWITCHES WITH FIRE SPRINKLER DRAWINGS. CONNECT ALL TAMPER AND FLOW SWITCHES TO FIRE ALARM SYSTEM.
- CONTRACTOR SHALL COORDINATE EXACT LOCATION AND QUANTITY OF ALL DUCT TYPE SMOKE DETECTORS WITH MECHANICAL CONTRACTOR. HARD WIRE TO RELAY STARTER.
- PROVIDE SMOKE AND HEAT DETECTORS WITHIN ELEVATOR MACHINE ROOMS AND ELEVATOR HOIST PITS.
- PROVIDE CONNECTION OF FA SYSTEMS TO ALL MAGNETIC DOOR HOLD-OPEN DEVICES TO AUTOMATICALLY CLOSE DOORS DURING ALARM CONDITIONS.
- DEVICES INDICATED ON FIRE ALARM ONE-LINE ARE FOR REFERENCE ONLY. REFER TO PLAN DRAWINGS AND SPECIFICATIONS FOR QUANTITIES. REFER TO ARCHITECTURAL DOOR SCHEDULE FOR MAGNETIC DOOR HOLDER AND BLOW OPEN DOOR REQUIREMENTS.
- ALL VISUAL DEVICES SHALL BE SYNCHRONIZED WITHIN THE BUILDING REGARDLESS OF PROJECT SCOPE BOUNDARIES.
- PROVIDE FIRE ALARM RELAY MODULES FOR ALL DOORS WITH ACCESS CONTROL DEVICES.
- PROVIDE (2) DUCT TYPE SMOKE DETECTOR FOR EACH FAN COIL UNIT, AHU, SUPPLY FAN AND HEAT PUMP OF 2000 CFM OR GREATER.
- FIRE ALARM DEVICES SHOWN ARE FOR REFERENCE ONLY AND BASED UPON A PERFORMANCE SPECIFICATION ALL NEW EQUIPMENT/DEVICE QUANTITIES, LOCATION, AND ALL NATIONAL & LOCAL CODE COMPLIANCE TO BE PROVIDED AND STAMPED BY A LICENSED FIRE ALARM ENGINEER AND INCLUDED IN THE FIRE ALARM CONTRACTORS BID. IN NO WAY ARE THE DEVICES SHOWN ON THESE DRAWINGS TO BE IMPLEMENTED AS FINAL DESIGN DOCUMENTS.
- PROVIDE 120V CIRCUIT FROM THE NEAREST EQUIPMENT BRANCH PANELBOARD FOR FIRE SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5'-0" OF EACH FIRE SMOKE DAMPER. REFER TO DIAGRAM D012.
- REFER TO ROOF ELECTRICAL SHEET AND MECHANICAL SHEETS FOR RTU/MECHANICAL EQUIPMENT DUCT DETECTOR LOCATIONS.
- PROVIDE FIRE ALARM SYSTEM DUCT DETECTOR(S) AS REQUIRED. COORDINATE WITH DIVISION 23 CONTRACTOR FOR THE QUANTITY AND FOR MOUNTING IN MECHANICAL UNIT DUCT WORK.



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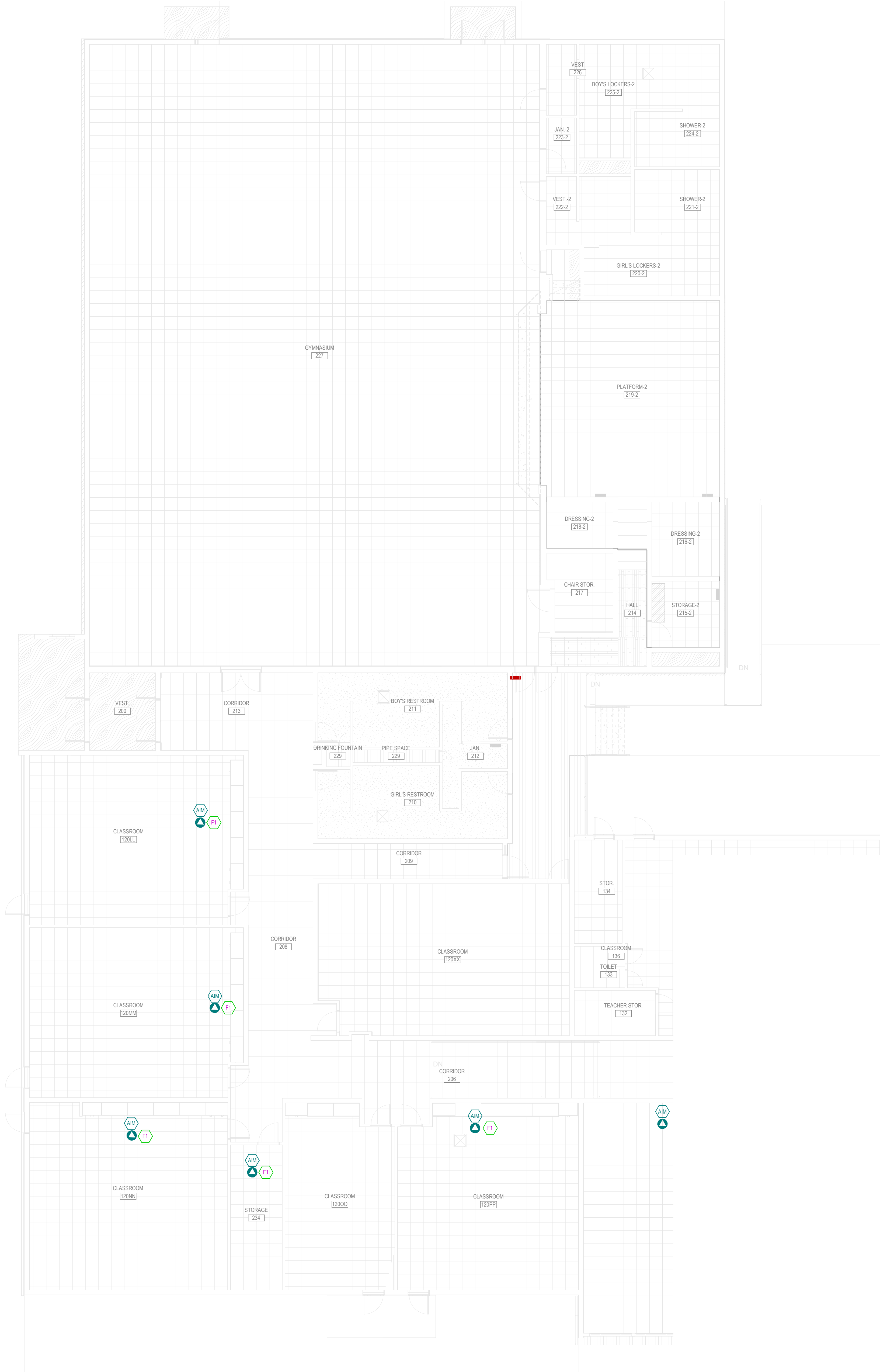
REVISIONS:


PROJECT TITLE  
EMERY SCHOOL DISTRICT  
COTTONWOOD ELEMENTARY SCHOOL  
155 EAST 200 SOUTH  
ORANGEVILLE, UTAH  
MECHANICAL UPGRADE

DRAWN BY: MK  
CHECKED BY: ES  
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PROJECT #: 176525

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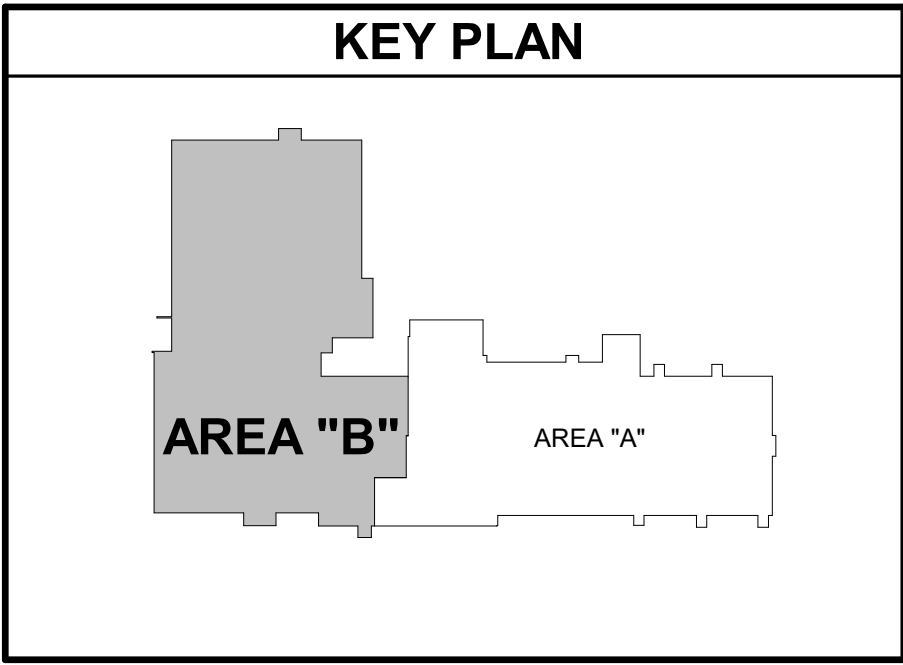
 MAIN FLOOR SYSTEM PLAN AREA B  
SCALE = 1/8" = 1'-0"

**KEYNOTES**

F1 PROVIDE CONTROL MODULE WITH FAN SHUT DOWN RELAY FOR LOCAL CARBON MONOXIDE DETECTOR ACTIVATION. TIE TO LOCAL INITIATION LOOP. LOCATE CARBON MONOXIDE DETECTOR WITHIN THE FIRST ROOM SERVED BY THE DUCT.

**SYSTEMS SHEET NOTES**

- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ITEMS SHOWN ON THE DRAWINGS, EXCEPT THOSE SPECIFICALLY LISTED ON SHEET E0.01, GENERAL ELECTRICAL NOTES.
- SEE FIRE ALARM ZONE SCHEDULE FOR INITIATING ZONES AND SIGNAL CIRCUITS.
- A MAXIMUM OF FOUR (4) INFORMATION OUTLET LOCATIONS PER CONDUIT HOME RUN TO MDF OR DF IS PERMITTED. CONDUIT SHALL BE SIZED AS FOLLOWS:  
A. ONE (1) INFORMATION OUTLET LOCATION: 1" CONDUIT  
B. TWO (2) INFORMATION OUTLET LOCATIONS: 1 1/4" CONDUIT  
C. THREE (3) INFORMATION OUTLET LOCATIONS: 1 1/2" CONDUIT
- (SELECT AS APPLICABLE PER PROJECT REQUIREMENT) ALL COMMUNICATION CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOPS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUITS WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAYS. PROVIDE CABLE HOOPS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.
- (ALTERNATE NOTE, IF APPLICABLE) ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT OR CABLE TRAY.

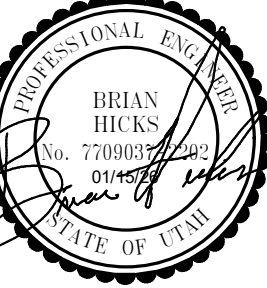


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