

3. COORDINATE GRILLE LOCATIONS WITH LIGHT FIXTURES, SPRINKLERS AND CEILING GRID.
2. INDICATED DUCT SIZES ARE NET FREE AREA.
4. ADJUST ALL AIR QUANTITIES AS SHOWN ON THE PLANS AFTER COMPLETION OF THE JOB.
3. INSULATE THE SUPPLY GRILLE TOPS, RETURN AIR GRILLE PLenums AND EXHAUST AIR PLenums WITH 2 IN. 3/4 LB DENSITY FOIL BACKED INSULATION.
5. EXTERNALLY INSULATE ALL ROUND SUPPLY AND RETURN DUCT. INTERNALLY INSULATE ALL RECTANGULAR SUPPLY AND RETURN DUCT PER MECHANICAL CODE. ATTACH THE INTERNAL INSULATION TO THE DUCT WITH APPROVED ADHESIVE AND WELDED FASTENERS.
6. MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK WITH FIELD CONDITIONS AND PROVIDE ALL OFFSETS, BENDS, TRANSITIONS AND SPECIAL FITTINGS FOR A COMPLETE INSTALLATION OF THE SYSTEMS.
7. INTERIOR OF ALL DUCT PLenums VISIBLE THROUGH GRILLE SHALL BE PAINTED MATTE BLACK PRIOR TO INSTALLATION.
8. EXTERNALLY INSULATE RETURN AIR GRILLES NOT SPECIFIED AS PRE-FINISHED. TO ARCHITECT'S SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
9. INSTALL VOLUME CONTROL DAMPERS IN SUPPLY, RETURN, EXHAUST AND FRESH AIR BRANCH DUCT RUNS.
10. ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE MECHANICAL CODE.
11. SEAL ALL DUCT SEAMS WITH HARDCAST IRON GRIP 601 SEALANT SYSTEM OR AN APPROVED EQUAL DUCT TAPE. WHETHER LISTED OR NOT, WILL NOT BE ACCEPTED.
12. ALL EXHAUST SYSTEMS SHALL CONFORM TO SMAGNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION, AND MECHANICAL CODE.
13. FABRICATE AND INSTALL AUXILIARY CONDENSATE DRAIN PAN UNDER ENTIRE AIR HANDLER WITH CONDENSATE PAN SWITCH INTERLOCKED WITH AIR HANDLER FOR SHUT DOWN WHEN CONDENSATE OVER FLOW IS SENSED.
14. SUPPLY AIR SYSTEMS AND RETURN AIR SYSTEMS INSTALLED IN AN ATTIC, VENTILATED CRAWL SPACE OR OTHER NON-CONDITIONED AREA SHALL BE INSULATED.
15. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR ROUTING ALL SPRINKLER PIPING TO AVOID ALL UNCONDITIONED SPACES.
16. DO NOT SCALE DIRECTLY FROM THE HVAC DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.



	SUPPLY DUCT SECTION		SUPPLY, RETURN, OR EXHAUST DUCT
	RETURN OR EXHAUST DUCT SECTION		EXISTING SUPPLY, RETURN, OR EXHAUST DUCT
	CEILING SUPPLY GRILLE		DEMO SUPPLY, RETURN, OR EXHAUST DUCT
	CEILING RETURN GRILLE		VOLUME DAMPER
	CEILING EXHAUST GRILLE		FLEX DUCT CONNECTION MAXIMUM OF 5 FT.
	SIDEWALL SUPPLY OR RETURN GRILLE		THERMOSTAT. MOUNT AT 48" A.F.F TO TOP (NUMBER DENOTES FURNACE OR AIR HANDLING UNIT)
	SEE KEYED NOTES		



REMARKS/ACCESSORIES

1. STEEL CONSTRUCTION
2. NO SCREW HOLES.

REMARKS/ACCESSORIES

1. 95% MIN. AFUE UPFLOW GAS FURNACE.
2. ELECTRONIC SPARK IGNITION.
3. 10 YEAR MIN. NON-PRORATED HEAT EXCHANGER.
4. PROVIDE 2" FIRM 30/30 FILTERS.
5. PROVIDE FILTER HOUSING EGLO TO MCDANIEL METALS "ACCOMMODATOR" FILTER HOUSING. HOUSING MUST ACCEPT UP TO 2 INCH FILTER.
6. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT.
7. PROVIDE FACTORY VERTICAL CONCENTRIC VENT TERMINATION KITS REFER TO 5/M1.1 FOR DETAIL.
8. PROVIDE MATCHING MULTI-POSITION CASED "A" TYPE COIL WITH TXV REFRIGERANT CONTROL.
9. CAP AND FILL 2 YR. PARTS AND LABOR WARRANTY FROM DATE OF SUBSTANTIAL COMPLETION.
10. EQUIPMENT IS TO BE OWNER PROVIDED BUT INSTALLED BY MECHANICAL CONTRACTOR.

REMARKS/ACCESSORIES

1. MINIMUM 14.0 SEER CONDENSER
2. PROVIDE LOW AMBIENT TO OF CONTROL WITH TXV AND GRANK CASE HEATERS.
3. PROVIDE LIQUID LINE FILTER DRYER
4. PROVIDE FACTORY HAIL GUARD.
5. SIZE AND INSTALL REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATIONS.
6. EQUIPMENT PROVIDED BY OWNER AND INSTALLED BY MECHANICAL CONTRACTOR.
7. PROVIDE FULL 2 YEAR PARTS AND LABOR WARRANTY FROM DATE OF SUBSTANTIAL COMPLETION.
8. EQUIPMENT IS TO BE OWNER PROVIDED BUT INSTALLED BY MECHANICAL CONTRACTOR.



6 FURNACE STAND DETAIL
N.T.S.



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ISSUE DATE
04/06/2026

PROJECT NO.
2421

REVISION DATES

HVAC NOTES & LEGEND

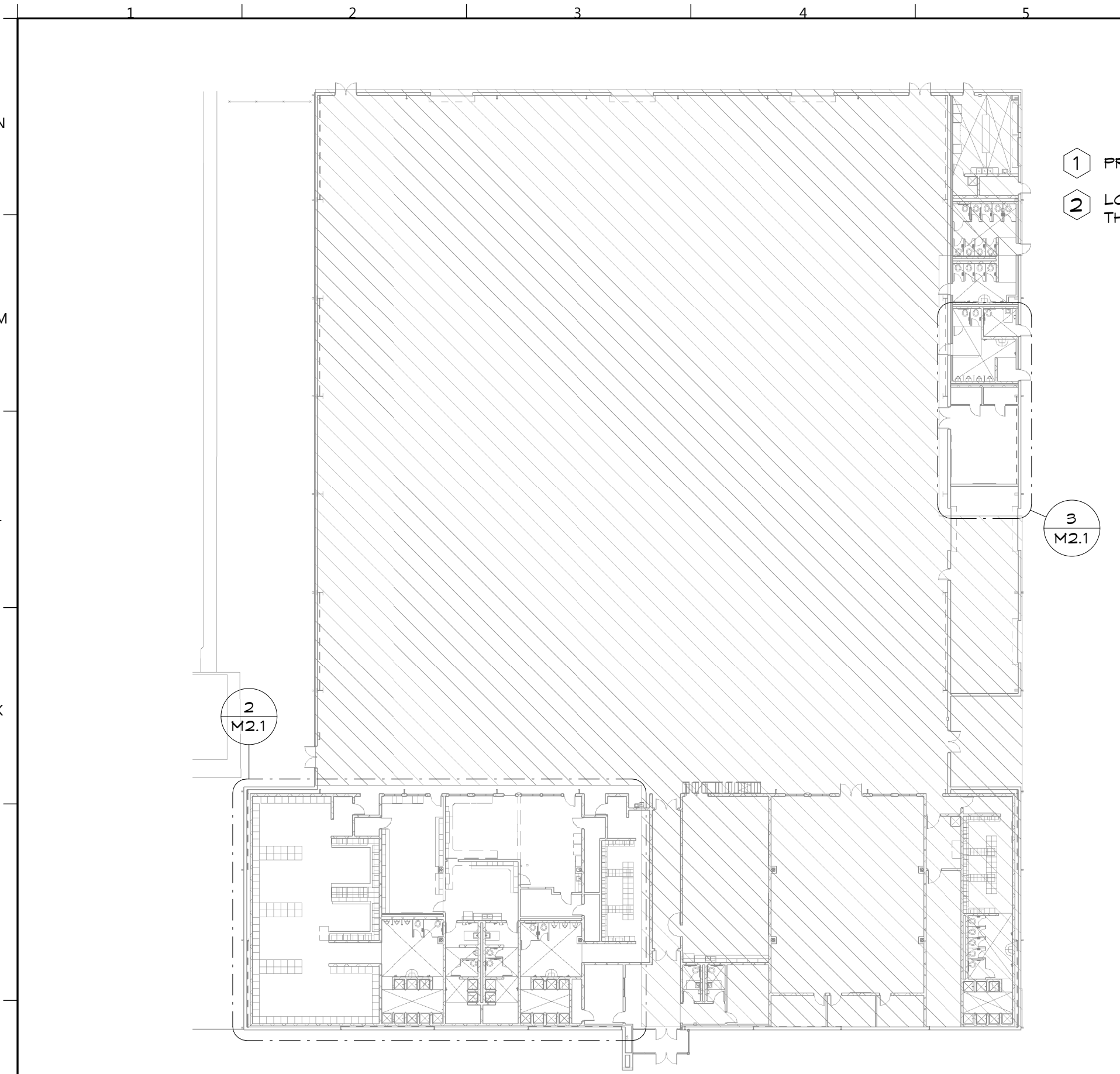
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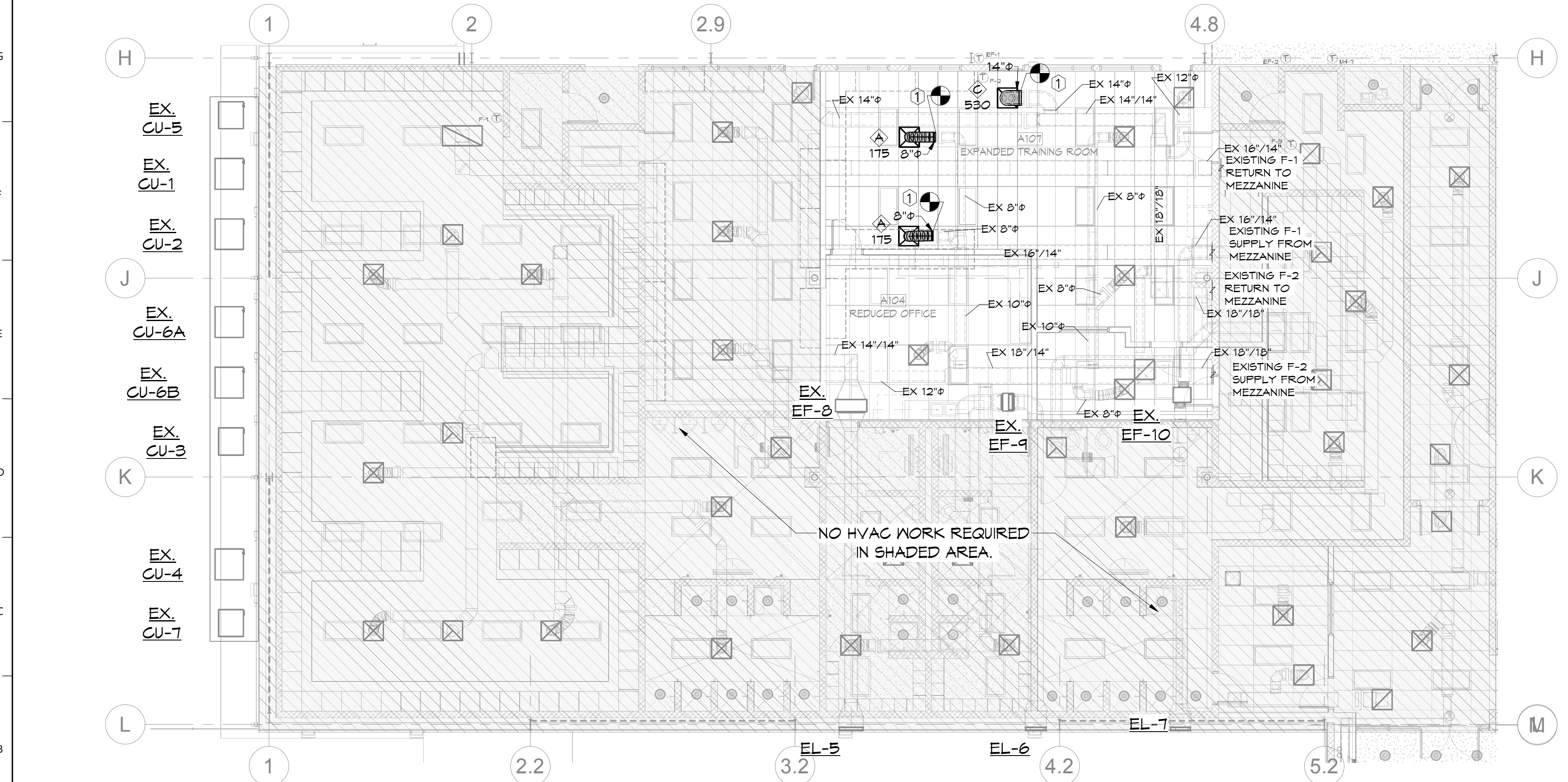
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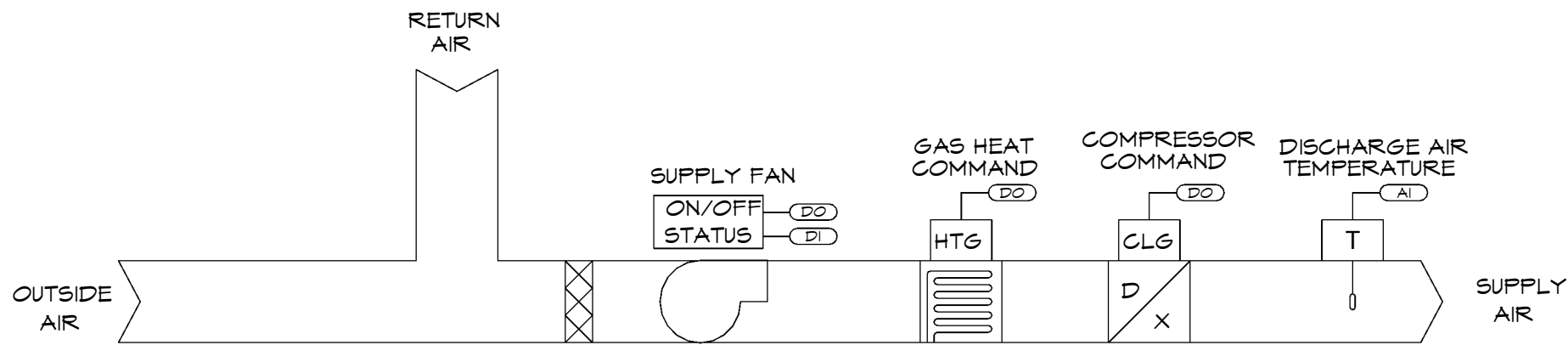
1 OVERALL HVAC PLAN
1/32" = 1'-0"



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

HYAC KEYED NOTES

- 1 PROVIDE NEW CONNECTION AND GRILLE TO EXISTING BRANCH DUCT. REBALANCE SYSTEM TO PROVIDE LISTED AIRFLOWS.
- 2 LOCATE THERMOSTAT, CO2 SENSOR OR HUMIDISTAT AS INDICATED WITH THE TOP OF THE THERMOSTAT AT 48 IN. ABOVE FINISHED FLOOR. SEAL ALL THERMOSTAT CONDUITS AT TOP AND BOTTOM OF CONDUIT. PROVIDE INSULATED BACKING FOR MOUNTING THERMOSTATS.



SPLIT SYSTEM FURNACE UNIT SEQUENCE OF OPERATION:

MODE OF OPERATION:
THE UNIT MODE OF OPERATION SHALL BE EITHER OCCUPIED OR UNOCCUPIED BASED ON A BUILDING AUTOMATION SYSTEM (BAS) SCHEDULE, AN OPERATOR OVERRIDE COMMAND FROM THE BAS, OR A TEMPORARY OCCUPANCY OVERRIDE SIGNAL AT THE THERMOSTAT.

OCCUPIED MODE:
THE THERMOSTAT SHALL BE SET FOR DUAL HEATING AND COOLING SETPOINTS. THE INITIAL OCCUPIED HEATING SETPOINT SHALL BE 70°F (ADJ.). THE INITIAL OCCUPIED COOLING SETPOINT SHALL BE 72°F (ADJ.). THE SPACE TEMPERATURE SETPOINT RANGE SHALL BE LIMITED BETWEEN A MINIMUM OF 65°F AND MAXIMUM OF 75°F.

THE SUPPLY FAN SHALL RUN CONTINUOUSLY FOR VENTILATION. THE VENTILATION AIRFLOW RATE SHALL BE SET DURING TEST AND BALANCE.

ON AN INCREASE IN SPACE TEMPERATURE ABOVE THE COOLING SETPOINT, THE COMPRESSOR SHALL BE COMMANDED ON UNTIL THE SPACE TEMPERATURE HAS REACHED THE OCCUPIED COOLING SETPOINT.

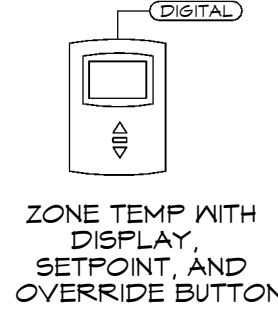
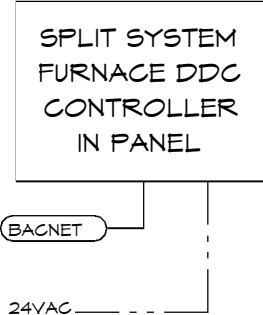
ON A DECREASE IN SPACE TEMPERATURE BELOW THE HEATING SETPOINT, THE FURNACE SHALL BE COMMANDED ON UNTIL THE SPACE TEMPERATURE HAS REACHED THE OCCUPIED HEATING SETPOINT.

UNOCCUPIED MODE:
DURING UNOCCUPIED MODE, THE THE FAN, COMPRESSOR, AND FURNACE SHALL BE COMMANDED OFF.

THE THERMOSTAT SHALL BE EQUIPPED WITH A TEMPORARY OCCUPANCY OVERRIDE FEATURE THAT SHALL OVERRIDE THE SYSTEM INTO OCCUPIED MODE FOR A PERIOD OF 2 HOURS (ADJ.).

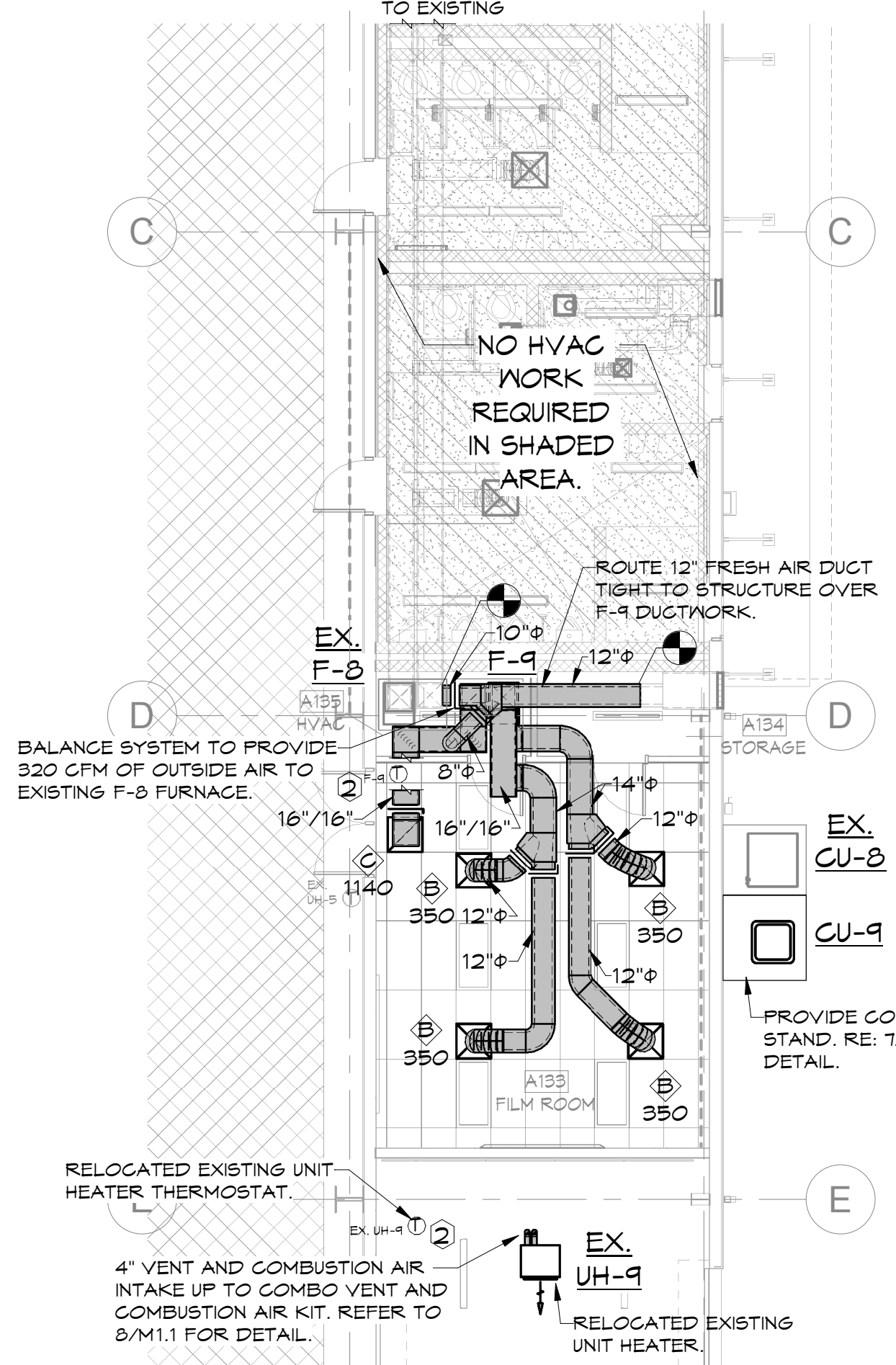
THE INITIAL UNOCCUPIED HEATING AND COOLING SETPOINTS SHALL BE 65°F (ADJ.) AND 78°F (ADJ.). IF THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED HEATING SETPOINT OR RISES ABOVE THE UNOCCUPIED COOLING SETPOINT, THE FAN SHALL BE ALLOWED TO RUN, THE COMPRESSOR SHALL BE COMMANDED ON FOR COOLING AS NEEDED, AND THE FURNACE SHALL BE COMMANDED ON FOR HEATING AS NEEDED. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED DURING UNOCCUPIED OPERATION.

ONCE THE SPACE TEMPERATURE HAS REACHED THE UNOCCUPIED HEATING OR COOLING SETPOINT, THE FAN, COMPRESSOR, AND FURNACE SHALL BE COMMANDED OFF.



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4 SPLIT SYSTEM CONTROLS
NTS



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

NOTE: REFER TO SHEET M1.1 FOR HVAC NOTES, LEGENDS, DETAILS & SCHEDULES. REFER TO SHEET M2.0 FOR HVAC DEMO PLANS. REFER TO SHEET M2.1 FOR HVAC PLANS.

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DRAWN BY:
RJK

CHECK BY:
NEW

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REVISION DATES:

HVAC FLOOR PLAN
SHEET
M2.1

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