GENERAL NEW NOTES:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. PROVIDE SEISMIC RESTRAINTS AS NEEDED FOR THE MECHANICAL SYSTEMS IN THE PROJECT BASED ON THE SEISMIC ANALYSIS REQUIRED BY THE SPECIFICATIONS.
3. COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
4. PROVIDE TEMPORARY BARRIERS TO CONTAIN DUST AND DEBRIS RESULTING FROM THE PERFORMANCE OF THE WORK TO THE AREA WHERE WORK IS BEING PERFORMED.
5. ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY DIVISION 23 UNLESS OTHERWISE NOTED.
6. NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
7. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS.
8. COORDINATE LOCATION OF ROOF MOUNTED HVAC EQUIPMENT AND ROOF PENETRATIONS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
9. INDOOR AIR QUALITY MEASURES: PROTECT INSIDE OF (INSTALLED AND DELIVERED) DUCTWORK AND HVAC UNITS FROM EXPOSURE TO DUST, DIRT, PAINT AND MOISTURE. REPLACE INSULATION THAT HAS BECOME WET AT ANY TIME DURING CONSTRUCTION, DRYING THE INSULATION IS NOT ACCEPTABLE. SEAL ANY TEARS OR JOINTS OF INTERNAL FIBERGLASS INSULATION. REMOVE DEBRIS FROM CEILING/RETURN AIR PLENUM INCLUDING DUST. AN INDEPENDENT, PROFESSIONAL DUCT CLEANING COMPANY SHALL VACUUM CLEAN ANY DUCTWORK CONNECTED TO HVAC UNITS THAT WERE OPERATED DURING THE CONSTRUCTION PERIOD AFTER NEW FILTERS ARE INSTALLED AND PRIOR TO TURNING SYSTEM OVER TO THE OWNER. THE INTERNAL SURFACES AND ASSOCIATED COILS OF ANY HVAC UNITS THAT WERE OPERATED SHALL ALSO BE CLEANED.
10. INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.
11. OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF EXCEPT WHERE CONCRETE INSERTS IN CONCRETE SLABS ARE ALLOWED BY THE SPECIFICATIONS.
12. COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.
13. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
14. COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.
15. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.
16. PAINT PORTIONS OF DUCTWORK AND INSULATION THAT ARE EXPOSED TO VIEW BY THE INSTALLATION OF DIFFUSERS, REGISTERS, AND GRILLES IN CEILINGS OR WALLS FLAT BLACK. PORTIONS INCLUDE BOTH THE INTERIOR OF UNLINED DUCTWORK AND THE EXTERIOR OF DUCTWORK AND INSULATION.
17. DUCTWORK CROSSING FIRE RATED WALLS OR OTHER FIRE RATED ASSEMBLIES SHALL BE MINIMUM 26 GAUGE SHEET METAL.
18. PROVIDE FIRE OR FIRE/SMOKE DAMPERS, AS APPLICABLE, IN DUCTWORK AT CEILINGS AND WALLS AT LOCATIONS SHOWN ON THE PLANS. FIRE AND FIRE/SMOKE DAMPERS SHALL CONFORM TO NFPA AS APPLICABLE. COORDINATE SLEEVE LENGTH WITH REQUIREMENTS OF INSTALLED LOCATION.
19. PROVIDE WALL OR DUCT ACCESS PANELS OR DOORS FOR ACCESS TO FIRE AND FIRE/SMOKE DAMPERS. ACCESS PANEL OR DOOR SHALL BE MINIMUM SIZE OF 10" BY 10" AND SHALL BE INSTALLED WITHIN 12" OF DAMPER. PROVIDE A REMOVABLE DUCT SECTION WHERE DUCT SIZE IS TOO SMALL FOR A 10" BY 10" ACCESS DOOR.
20. LOCATE AND SET THERMOSTATS AND HUMIDISTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. DEVICE MOUNTING HEIGHT SHALL MEET ADA REQUIREMENTS UNLESS OTHERWISE NOTED ON PLANS. PROVIDE INSULATED BACKING FOR THERMOSTATS MOUNTED ON EXTERIOR BUILDING WALLS. INSTALL WIRING IN CONDUIT PROVIDED BY DIVISION 26. AT A MINIMUM, PROVIDE CONDUIT IN THE WALL FROM THE JUNCTION BOX TO 6" ABOVE THE CEILING.
21. COORDINATE THE LOCATION AND ELEVATION OF WALL-MOUNTED DEVICES WITH PRESENTATION BOARDS, DISPLAY CABINETS, SHELVES OR OTHER COMPONENTS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE TO BE INSTALLED UNDER OTHER DIVISIONS. CONTRACTOR WILL NOT BE REIMBURSED FOR RELOCATION OF WALL-MOUNTED DEVICES CAUSED BY A LACK OF COORDINATION.
22. PROVIDE A MANUAL BALANCING DAMPER IN EACH DUCT TAKEOFF FROM SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTS.
23. PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY, RECTANGULAR/ROUND BRANCH DUCT TAKEOFF FITTING FOR BRANCH DUCT CONNECTIONS AND TAKE-OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES. PROVIDE WITH INTEGRAL MANUAL BALANCING DAMPER AND LOCKING QUADRANT WHERE INDICATED ON PLANS.
24. BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED.
25. REFER TO SPECIFICATIONS FOR DUCTWORK AND PIPING INSULATION REQUIREMENTS. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS, INCREASE SHEET METAL SIZES ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER.
26. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
27. RIGIDLY SUSPEND UNIT HEATER FROM STRUCTURE WITH SUPPORTING ANGLES AND ALL-THREAD HANGING RODS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
28. PROVIDE EQUIPMENT VENTS AND FLUES PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS AND EQUIPMENT SPECIFICATIONS. KEEP PENETRATIONS THROUGH ROOF A MINIMUM OF 10'-0" FROM HVAC EQUIPMENT FRESH AIR INLETS AND 2'-0" FROM ROOF PARAPETS.
29. PROVIDE WALL MOUNTED LOUVERS AND DAMPERS WITH SUITABLE MOUNTING FRAME TO MATCH WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL DRAWINGS.
30. PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.

MECHANICAL SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

STANDARD MOUNTING HEIGHT

THERMOSTATS (USER ADJUSTABLE) (TOP OF DEVICE)	46"
CONTROLS (TOP OF DEVICE)	46"

INSTALL DEVICES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS ARE AFF OR AFG TO TOP OF THE DEVICE UNO. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

ANNOTATION

- 1 — MECHANICAL PLAN NOTE CALLOUT
- CU / 1 — MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)
- CONNECTION POINT OF NEW WORK TO EXISTING
- EXTENTS OF DEMOLITION
- 1 / M1 — DETAIL REFERENCE. UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
- M1 — SECTION CUT DESIGNATION

ABBREVIATIONS

A/C	AIR CONDITIONING
ACC	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
AWG	AMERICAN WIRE GAUGE
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BB	BACKBONE
BD	BACKDRAFT DAMPER
BD	BLOWDOWN
BFC	BELOW FINISHED CEILING
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BFP	BOILER FEED PUMP
BHP	BRAKE HORSEPOWER
BI	BINARY INPUT
BO	BINARY OUTPUT
BOD	BOTTOM OF DUCT
BOS	BOTTOM OF STRUCTURE
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CLG	COOLING
CP	CONDENSATE PUMP
CPT	CONTROL POWER TRANSFORMER
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
CRU	COMPUTER ROOM UNIT
CT	COOLING TOWER
CV	CONTROL VALVE
CWP	CONDENSER WATER PUMP
CU	CONDENSING UNIT
CHWP	CHILLED WATER PUMP
DB	DECIBELS
DBA	DECIBEL AVERAGE
DDC	DIRECT DIGITAL CONTROL
DI	DIGITAL INPUT
DISC	DISCONNECT
DN	DOWN
DS	DUCT SILENCER
DX	DIRECT EXPANSION
(E)	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ED	EXHAUST DUCT
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
EFF	EFFICIENCY
EMS	ENERGY MANAGEMENT SYSTEM
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
FCU	FAN COIL UNIT
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FF	FINISHED FLOOR
FPI	FINS PER INCH
FPM	FEET PER MINUTE
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HTG	HEATING
HWP	HEATING WATER PUMP
IN WC	INCHES OF WATER COLUMN
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LP	LOW PRESSURE
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MD	MOTORIZED DAMPER
MFR	MANUFACTURER
MIN	MINIMUM
N/A	NOT APPLICABLE
N/C	NORMALLY CLOSED
N/O	NORMALLY OPEN
NOM	NOMINAL
NC	NOISE CRITERIA
NF	NON-FUSED
NIC	NOT IN CONTRACT
OA	OUTSIDE AIR
PICV	PRESSURE INDEP. CONTROL VALVE
PFI	PROVIDE, FURNISH AND INSTALL
QTY	QUANTITY
RA	RETURN AIR
RC	ROOM CRITERIA
RD	RETURN DUCT
REA	RELIEF AIR
RF	RETURN FAN
RFR	REFRIGERANT
RH	RELATIVE HUMIDITY
RH	ROOF HOOD
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SCP	STEAM CONDENSATE PUMP
SD	SUPPLY DUCT
SF	SUPPLY FAN
SH	SENSIBLE HEAT CAPACITY
SOW	SCOPE OF WORK
SP	STATIC PRESSURE
ST	STEAM TRAP
STM	STEAM
TBD	TO BE DETERMINED
TC/C	TEMPERATURE CONTROLS CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TF	TRANSFER FAN
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TH	TOTAL HEAT CAPACITY
TSP	TOTAL STATIC PRESSURE
TT	TEMPERATURE TRANSMITTAL
TYP	TYPICAL
U/F	UNDERFLOOR
U/G	UNDERGROUND
U/S	UNDERSLAB
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VRV	VARIABLE REFRIGERANT VOLUME
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WPD	WATER PRESSURE DROP
XP	EXPLOSION PROOF

HVAC DUCTWORK AND ACCESSORIES

- DUCTWORK/EQUIPMENT TO BE REMOVED OR RELOCATED
- EXISTING DUCTWORK/EQUIPMENT TO REMAIN
- LINEAR SLOT DIFFUSER
- INSULATED FLEXIBLE DUCT (MAX. 5'-0" LONG)
- BRANCH DUCT WITH 45° RECTANGLE-ROUND BRANCH FITTING AND MANUAL VOLUME DAMPER
- ELBOW WITH TURNING VANES
- DUCT UP
- DUCT DOWN
- CA — COMBUSTION AIR
- EA — EXHAUST AIR - GENERAL
- DEA — EXHAUST AIR - DRYER
- GEA — EXHAUST AIR - GREASE
- DWEA — EXHAUST AIR - DISHWASHER
- SEA — EXHAUST AIR - SMOKE
- FLUE — EXHAUST AIR - FLUE
- OA — OUTSIDE AIR
- REA — RELIEF AIR
- RA — RETURN AIR
- XEA — SPECIAL EXHAUST
- SA — SUPPLY AIR
- PSA — PRESSURIZATION SUPPLY AIR
- 10" (NECK SIZE) CSD-1 (TYPE) 300 CFM (CFM OF SUPPLY DIFFUSER OR REGISTER) FILLED REGION INDICATES DEFLECTOR
- 24x24 (NECK SIZE) CRG-1 (TYPE) 800 CFM (CFM OF RETURN GRILLE) (RETURN/EXHAUST GRILLE SHOWN BELOW)
- ACCESS PANEL (IN GYPSUM)
- MANUAL VOLUME DAMPER
- SQUARE TO ROUND TRANSITION
- RD — DUCT MOUNTED SMOKE DETECTOR (SD=SUPPLY/RD=RETURN)
- XX"Ø — ROUND DUCT TAG INDICATING DIAMETER
- XX" x XX" — RECTANGULAR DUCT TAG INDICATING INTERNAL DUCT DIMENSIONS.
- XX" / XX"ø — FLAT OVAL DUCT TAG INDICATING INTERNAL DUCT DIMENSIONS

HVAC DAMPERS

- FD — FIRE DAMPER
- FSD — FIRE SMOKE DAMPER
- SCD — SMOKE CONTROL DAMPER
- SD — SMOKE DAMPER
- VD — VOLUME DAMPER
- MD — MOTORIZED DAMPER
- BD — BACKDRAFT DAMPER

PIPING SYMBOLS

- DIRECTION OF FLOW
- CONTROL VALVE
- THREE-WAY CONTROL VALVE
- SHUTOFF VALVE
- CHECK VALVE
- BALANCING VALVE WITH PRESSURE PORTS
- TRIPLE DUTY VALVE WITH PRESSURE PORTS
- STRAINER
- STRAINER WITH BLOWOFF
- RELIEF / SAFETY VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- GAS PRESSURE REGULATOR
- THERMOSTATIC MIXING VALVE
- PA — PIPE ANCHOR
- EXPANSION JOINT
- PIPE GUIDE
- PIPING SUPPORT
- F & T TRAP
- BUCKET TRAP
- THERMOSTATIC TRAP
- BACKFLOW PREVENTER
- PRESSURE GAUGE
- THERMOMETER
- PRESSURE AND TEMPERATURE TEST PLUG
- UNION
- FLANGE CONNECTION
- VACUUM RELIEF VALVE
- AV — AUTOMATIC AIR VENT
- MV — MANUAL AIR VENT
- PRESSURE / VACUUM SWITCH
- CLEANOUT
- CAP
- ELBOW UP
- ELBOW DOWN
- TEE UP
- TEE DOWN
- ELBOW UP WITH SHUT-OFF VALVE (SOV)
- ELBOW DOWN WITH SHUT-OFF VALVE (SOV)
- TEE UP WITH SHUT-OFF VALVE (SOV)
- TEE DOWN WITH SHUT-OFF VALVE (SOV)
- REDUCER
- RECIRCULATION PUMP
- P-TRAP
- GAS COCK
- TOP BEAM CLAMP
- TRAPEZE HANGER
- FLEXIBLE CONNECTION

HVAC CONTROL DEVICES

- H — HUMIDISTAT
- T — THERMOSTAT
- CO2 — CARBON DIOXIDE SENSOR
- DP — DIFFERENTIAL PRESSURE SENSOR
- FS — FLOW SWITCH
- CO — CARBON MONOXIDE SENSOR
- NO2 — NITROGEN DIOXIDE SENSOR
- HS — HUMIDITY SENSOR
- TS — TEMPERATURE SENSOR
- RT — REMOTE TESTING STATION WITH INDICATING LIGHT
- SP — STATIC PRESSURE
- PS — PULL STATION
- ZS — ZONE SENSOR (TS, HS, CO2 AND/OR OCC)

PIPING LINETYPES

- EXISTING PIPING TO BE REMOVED OR RELOCATED
- EXISTING PIPING TO REMAIN
- CD — CONDENSATE DRAIN (CD)
- ACD — AUXILIARY CONDENSATE DRAIN (ACD)
- NPW — NON-POTABLE WATER (NPW)
- G — NATURAL GAS (G)
- G — NATURAL GAS ON ROOF (G)
- MPG — MEDIUM PRESSURE NATURAL GAS (MPG)
- MPG — MEDIUM PRESSURE NATURAL GAS ON ROOF (MGP)
- FOS — FUEL OIL SUPPLY (FOS)
- FOR — FUEL OIL RETURN (FOR)
- FOV — FUEL OIL VENT (FOV)
- LPG — LIQUEFIED PETROLEUM GAS (LPG)
- BFW — BOILER FEED WATER (BFW)
- HPS — HIGH PRESSURE STEAM SUPPLY (HPS)
- HPC — HIGH PRESSURE STEAM CONDENSATE (HPC)
- MPS — MEDIUM PRESSURE STEAM SUPPLY (MPS)
- MPC — MEDIUM PRESSURE STEAM CONDENSATE (MPC)
- LPS — LOW PRESSURE STEAM SUPPLY (LPS)
- LPC — LOW PRESSURE STEAM CONDENSATE (LPC)
- CPD — CONDENSATE PUMP DISCHARGE (CPD)
- SV — STEAM VENT (SV)
- HWS — HEATING HOT WATER SUPPLY (HWS)
- HWR — HEATING HOT WATER RETURN (HWR)
- CHWS — CHILLED WATER SUPPLY (CHWS)
- CHWR — CHILLED WATER RETURN (CHWR)
- HCS — HOT / CHILLED WATER SUPPLY (HCS)
- HCR — HOT / CHILLED WATER RETURN (HCR)
- CWS — CONDENSER WATER SUPPLY (CWS)
- CWR — CONDENSER WATER RETURN (CWR)
- RL/RS — REFRIGERANT LIQUID/SUCTION (RL/RS)
- VRF RL/RS — VRF REFRIGERANT LIQUID/SUCTION (VRF RL/RS)
- SS RL/RS — SPLIT SYSTEM REFRIGERANT LIQUID/SUCTION (SS RL/RS)
- RL — REFRIGERANT LIQUID (RL)
- RD — REFRIGERANT DISCHARGE (HOT GAS) (RD)
- RS — REFRIGERANT SUCTION (RS)
- RDB — REFRIGERANT DISCHARGE BYPASS (RDB)
- RV — REFRIGERANT VENT (RV)

HATCHING LEGEND

- ENLARGED PLAN
- NOT IN SCOPE (NIS)

LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

EXISTING	NEW
DEMOLISH	FUTURE

BENTONVILLE BALLROOM

SE E STREET & SE 8TH STREET
BENTONVILLE, AR
72712

CLIENT
LIVE NATION
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SEAL

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DAVID S. WOLFORD
LICENSE # 19150

IT IS NOT TO BE USED FOR CONSTRUCTION PURPOSES

NOT FOR CONSTRUCTION

KEY PLAN (NTS)

N

SHEET NAME

MECHANICAL GENERAL NOTES AND LEGEND

PROJECT NUMBER	SHEET NUMBER
24531	M000
DOB NUMBER 5050	
SCALE 12" = 1'-0"	
FORMAT ARCH D	

DAVID S. WOLFORD
1/22/2026 12:10:46 PM

HVAC PRICING NOTES:

1. EXTERIOR WALL LOUVERS WILL BE SCHEDULED BY THE ARCHITECT AND PROVIDED BY THE GC.
2. MOTORIZED DAMPERS IN DUCTS UTILIZED FOR THE INTAKE OF OUTDOOR AIR AND EXHAUST/RELIEF TO OUTDOORS SHALL BE GASKETED-LOW LEAKAGE TYPE. PROVIDE MOTORIZED ISOLATION DAMPERS IN ALL DUCT TERMINATIONS TO OUTDOORS. BACKDRAFT DAMPERS ALONE ARE NOT ACCEPTABLE.
3. WHERE SIZING OR DUCT ROUTING IS NOT SHOWN ON PLANS, LOW PRESSURE SUPPLY AIR DUCTWORK, OUTSIDE AIR DUCTWORK, AND GENERAL EXHAUST DUCTWORK SHALL BE SIZED FOR A MAXIMUM PRESSURE DROP OF 0.08 INCHES WATER GAUGE PER 100 FEET LENGTH AND MAXIMUM VELOCITY OF 1500 FPM, WHICHEVER IS MORE STRINGENT.
4. WHERE SIZING OR DUCT ROUTING IS NOT SHOWN ON PLANS, RETURN DUCTWORK SHALL BE SIZED FOR A MAXIMUM PRESSURE DROP OF 0.05 INCHES WATER GAUGE PER 100 FEET LENGTH AND MAXIMUM VELOCITY OF 1200 FPM, WHICHEVER IS MORE STRINGENT.
5. PROVIDE CEILING RETURN AIR DEVICES AND OPENINGS IN WALL ABOVE CEILINGS SIZED FOR 300 FPM FOR OPERATION OF RETURN AIR PLENUM. PROVIDE SUBSEQUENT TRANSFER AIR OPENINGS THROUGH WALLS SIZED AT 350 FPM TO ALLOW AIR PATH BACK TO UNIT RETURN INLET.
6. FLEXIBLE DUCTWORK FOR SUPPLY SHALL BE LIMITED TO MAXIMUM LENGTH OF FIVE FEET. EXHAUST AND RETURN FLEXIBLE DUCTWORK SHALL BE LIMITED TO TWO (2) FEET.
7. DUCTWORK DOWNSTREAM OF VAV BOXES AND ALL AHU/RTU SUPPLY AND RETURN DUCTWORK SHALL BE LINED WITH INSULATION 15 FEET FROM UNIT CONNECTION FOR NOISE CONTROL.
8. PROVIDE FIRE DAMPERS IN DUCTS AND AIR TRANSFER OPENINGS PENETRATING FIRE RATED WALLS AND FLOORS. MAXIMUM SIZE OF FIRE DAMPERS SHALL BE 120"x96", MULTIPLE DUCTS AND DAMPERS WILL BE REQUIRED WHERE DUCT SIZE SHOWN EXCEEDS.
9. PROVIDE SMOKE DAMPERS IN DUCTS AND AIR TRANSFER OPENINGS PENETRATING SMOKE BARRIER WALLS AND FLOORS. MAXIMUM SIZE OF SMOKE DAMPERS SHALL BE 120"x96", MULTIPLE DUCTS AND DAMPERS WILL BE REQUIRED WHERE DUCT SIZE SHOWN EXCEEDS. THIS INCLUDES, BUT IS NOT LIMITED TO, WATER HEATER, BOILER, REFRIGERANT MACHINERY, AND LAUNDRY ROOMS.
10. DUCTWORK WHERE ROUTED IN EXPOSED AREAS SHALL BE ROUND UNLESS SHOWN OTHERWISE ON PLANS. WHERE DUCTWORK IS REQUIRED TO BE INSULATED, DUCT WILL BE PROVIDED WITH DUCT LINER INSULATION AND PAINTED PER ARCHITECT.
11. ALL EXHAUST, RETURN AND RELIEF AIR DUCTWORK SHALL BE WRAPPED (OR LINED IF EXPOSED), WITHIN 10 FEET OF EXTERIOR TERMINATION.
12. PROVIDE ALLOWANCE FOR 5 FOOT SUPPLY AND RETURN AIR DUCT SILENCER SIZED AT 1000 FPM FOR EACH AHU/RTU SERVING AN OCCUPIED SPACE. SOUND ATTENUATOR SHALL BE SIZED FOR A MAXIMUM PRESSURE DROP OF 0.1".
13. PROVIDE ALLOWANCE FOR DUCT LAGGING ABOVE SPACES WITH NOISE CRITERIA OF NC-30 OR LOWER. LAGGING CAN BE DRYWALL OR VINYL WRAP, HEAVY DENSITY TYPE LAGGING. ALL DUCTWORK ROUTED WITHIN OR ABOVE THESE AREAS TO BE EXTERNALLY LAGGED TO MITIGATE DUCT NOISE BREAKOUT.
14. ALL RTUs SHALL BE PROVIDED WITH 2" VIBRATION ISOLATION

CONTROLS PRICING NOTES:

1. ALL AHUs/RTUs, FCUs, VAV BOXES, ETC. TO BE PROVIDED WITH NETWORKED SPACE TEMPERATURE SENSOR FOR UNIT CONTROL.
2. PROVIDE A BAS CONTROL PANEL WHERE SHOWN ON PLAN. CONTROLS CONTRACTOR TO DETERMINE IF ADDITIONAL PANELS ARE REQUIRED. DIVISION 26 CONTRACTOR SHALL PROVIDE DEDICATED 120V / 20 AMP CIRCUIT AT EACH PANEL LOCATION. PROVIDE (2) DEDICATED DATA CONNECTIONS AT EACH PANEL LOCATION. COORDINATE ALL PANEL LOCATIONS AND SERVICE REQUIREMENTS WITH GC AND OTHER TRADES. PROVIDE STANDBY POWER FOR PANELS SERVING EQUIPMENT ON STANDBY POWER. REFER TO ELECTRICAL DRAWINGS FOR EQUIPMENT BEING SERVED WITH STANDBY POWER. REFER TO CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
3. COORDINATE 120V POWER REQUIRED FOR ANY CONTROL DEVICES (DAMPER AND VALVE ACTUATORS, APPLICATION SPECIFIC CONTROLLERS, FOOD SERVICE CO2 MONITORING, DRYER EXHAUST CONTROL SYSTEMS, ETC.) THAT MAY BE ABOVE AND BEYOND THE REQUIREMENTS LISTED ABOVE WITH DIVISION 26 CONTRACTOR. IF ADDITIONAL BUILDING LEVEL CONTROLLERS ARE REQUIRED, OR POWER NEEDS TO BE PROVIDED IN LOCATIONS OTHER THAN THOSE NOTED ABOVE, COORDINATE REQUIREMENTS WITH DIVISION 26 CONTRACTOR.
4. OCCUPIED SPACES (OFFICES, MEETING ROOMS, CONFERENCE ROOMS, ETC.): PROVIDE COMBINATION TEMPERATURE, CO2, AND HUMIDITY SENSOR WITH DISPLAY AND SET POINT ADJUSTMENT. OMIT HUMIDITY SENSOR FOR OFFICES.
5. UNOCCUPIED/TRANSIENT SPACES (ELECTRICAL ROOMS, MECHANICAL ROOM, STAIRWAYS, VESTIBULES, ETC.): PROVIDE BLANK TEMPERATURE SENSOR. NO SETPOINT ADJUST.
6. IDF/IT ROOMS: PROVIDE COMBINATION TEMPERATURE AND HUMIDITY SENSOR. NO SET POINT ADJUST.
7. PROVIDE LOCAL CO2 MONITORING SYSTEM FOR ALL FOOD SERVICE WALK-IN COOLERS WHERE CO2 IS TERMINATED (BEER COOLERS, SODA COOLERS, ETC.). REFER TO FOODSERVICE AND PLUMBING DRAWINGS FOR CO2 TERMINATION LOCATIONS IN WALK-INS. PROVIDE LOCAL AUDIBLE/VISIBLE ALARM AND INTERFACE WITH BAS FOR ALARM. REFER TO CONTROLS DRAWINGS FOR MORE INFORMATION.
8. ALL CONTROL WIRING IN INACCESSIBLE LOCATIONS SHALL BE RUN IN CONDUIT. ALL CONTROL WIRING RELATED TO LIFE SAFETY SYSTEMS SHALL ALSO BE RUN IN CONDUIT. ALL CONTROL WIRING NOT RUN IN CONDUIT SHALL BE UL RATED FOR PLENUM INSTALLATION.

PRICING NOTES FOR AIR DISTRIBUTION DEVICES - GRILLES, REGISTERS, AND DIFFUSERS (GRD):

1. REFER TO TYPICAL ROOM LAYOUTS THROUGHOUT THE HVAC PLANS AND GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE. UNLESS OTHERWISE INDICATED ON DRAWINGS, THE INFORMATION BELOW SHALL BE USED FOR PRICING PURPOSES.
1. DEVICES TO BE SELECTED FOR A MAXIMUM PRESSURE DROP OF 0.1" AND MAXIMUM NC OF 25.
2. AIR DEVICES MOUNTED IN HARD CEILINGS OR OTHER SIMILAR ASSEMBLIES WITHOUT PERMANENT ACCESS WILL BE PROVIDED WITH CABLE OPERATED DAMPERS IN THE BRANCH DUCT. CABLE OPERATBR DAMPERS WILL BE PROVIDED WITH ADJUSTMENT FROM FACE OF DEVICE VIA CABLE OPERATOR MOUNTED TO DEVICE.
3. DEVICES IN WET AREAS (I.E. SHOWERS, ETC.) SHALL BE ALL ALUMINUM CONSTRUCTION.
4. TITUS FLOWBAR SLOT DIFFUSERS, 1" SINGLE SLOT (FL-10) FOR OVERHEAD SUPPLY, RETURN, AND EXHAUST WHERE SHOWN ON PLANS.
   A. PROVIDE FACTORY OR FIELD FABRICATED AIR PLENUMS ON SUPPLY AND EXHAUST SLOT DEVICES. SUPPLY PLENUMS TO BE INTERNALLY LINED WITH 1/4" THICK CLOSED CELL LINER INSULATION. INDIVIDUAL PLENUMS TO BE A MAXIMUM OF 4 FEET LONG.
   B. SIZING CRITERIA
      a. MAXIMUM 90 CFM PER LINEAR FOOT OF SLOT FOR SUPPLY AND EXHAUST.
      b. MAXIMUM 30 CFM PER LINEAR FOOT FOR RETURN.
5. TITUS 24"X24" OMNI ARCHITECTURAL PLAQUE AIR DEVICES FOR SUPPLY, RETURN, AND EXHAUST AIR IN SMALL OFFICES, WORK ROOMS, LOCKERS/RESTROOMS, AND OTHER NON-HIGH END AREAS WITH CEILINGS.
   A. ALUMINUM CONSTRUCTION.
   B. SIZING CRITERIA
      a. MAXIMUM 400 CFM PER OMNI SUPPLY DIFFUSER, APPROXIMATELY ONE DIFFUSER PER 250-300 SQUARE FEET.
      b. MAXIMUM 600 CFM PER OMNI RETURN DEVICE, APPROXIMATELY ONE DEVICE PER 400 SQUARE FEET.
      c. MAXIMUM 500 CFM PER OMNI EXHAUST DEVICE, APPROXIMATELY ONE DEVICE PER 500 SQUARE FEET IN EXHAUSTED AREAS.
6. TITUS 300 SERIES GRILLES AND REGISTERS FOR WALL MOUNTED OR DUCT-MOUNTED SUPPLY, RETURN, AND EXHAUST.

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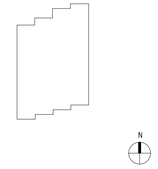

SHEET NAME

MECHANICAL PRICING NOTES

PROJECT NUMBER: **24531**
SHEET NUMBER: **M001**
OOS NUMBER: **5050**
SCALE: **12" = 1'-0"**
FORMAT: **ARCH D**

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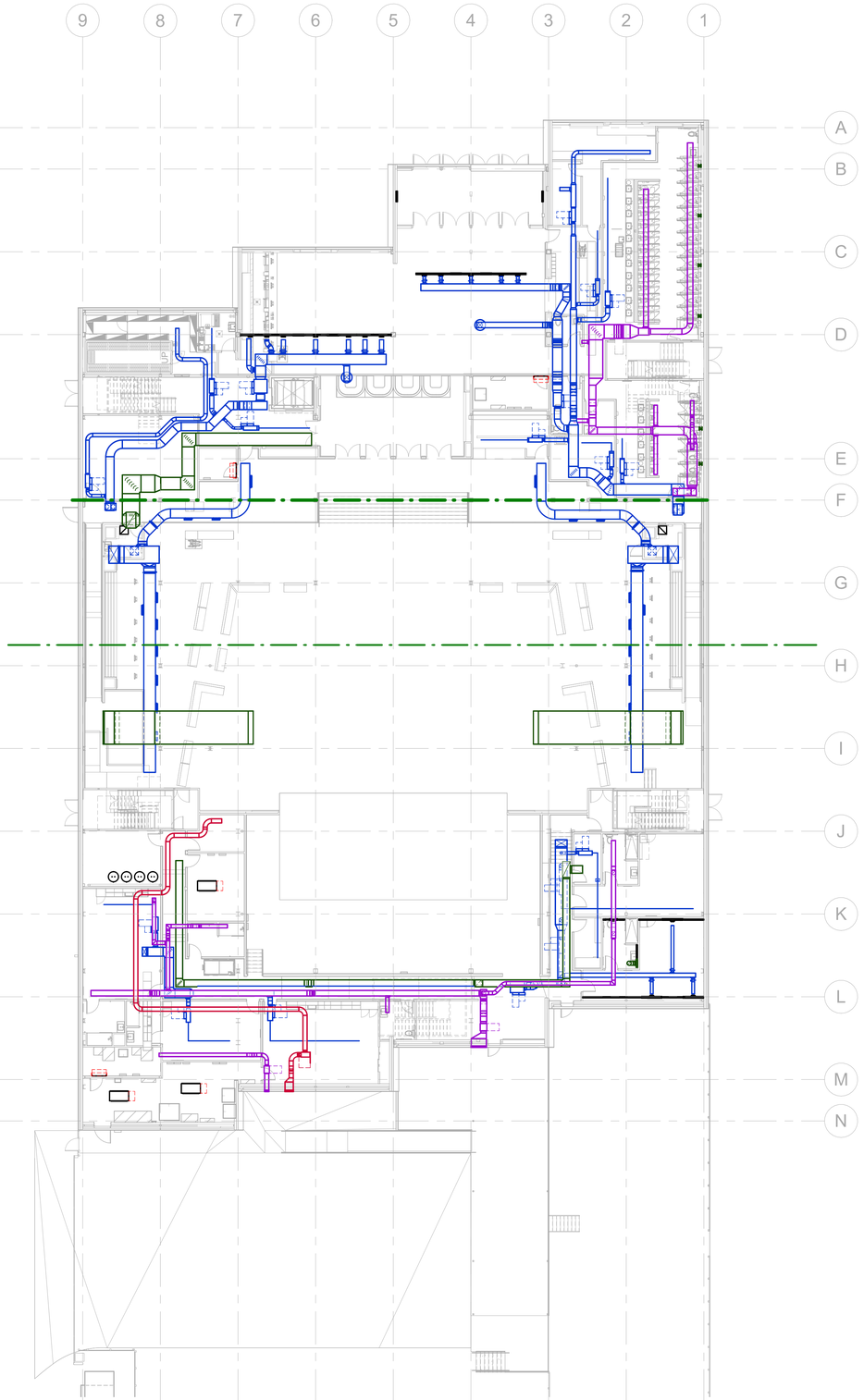
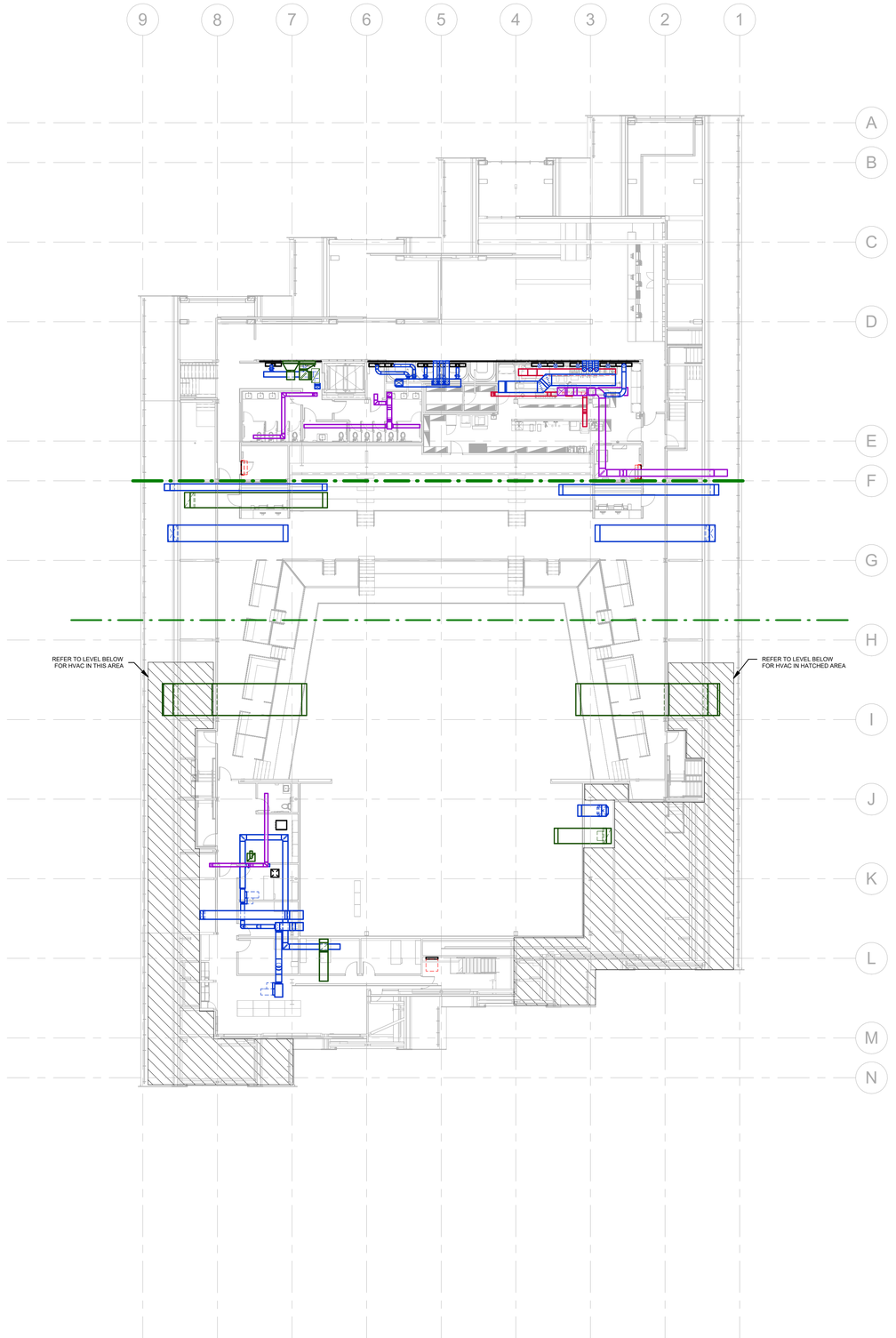


1 MECHANICAL LEVEL 1 PLAN - OVERALL
1/16" = 1'-0"



2 MECHANICAL LEVEL 2 PLAN - OVERALL
1/16" = 1'-0"

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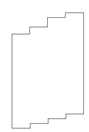
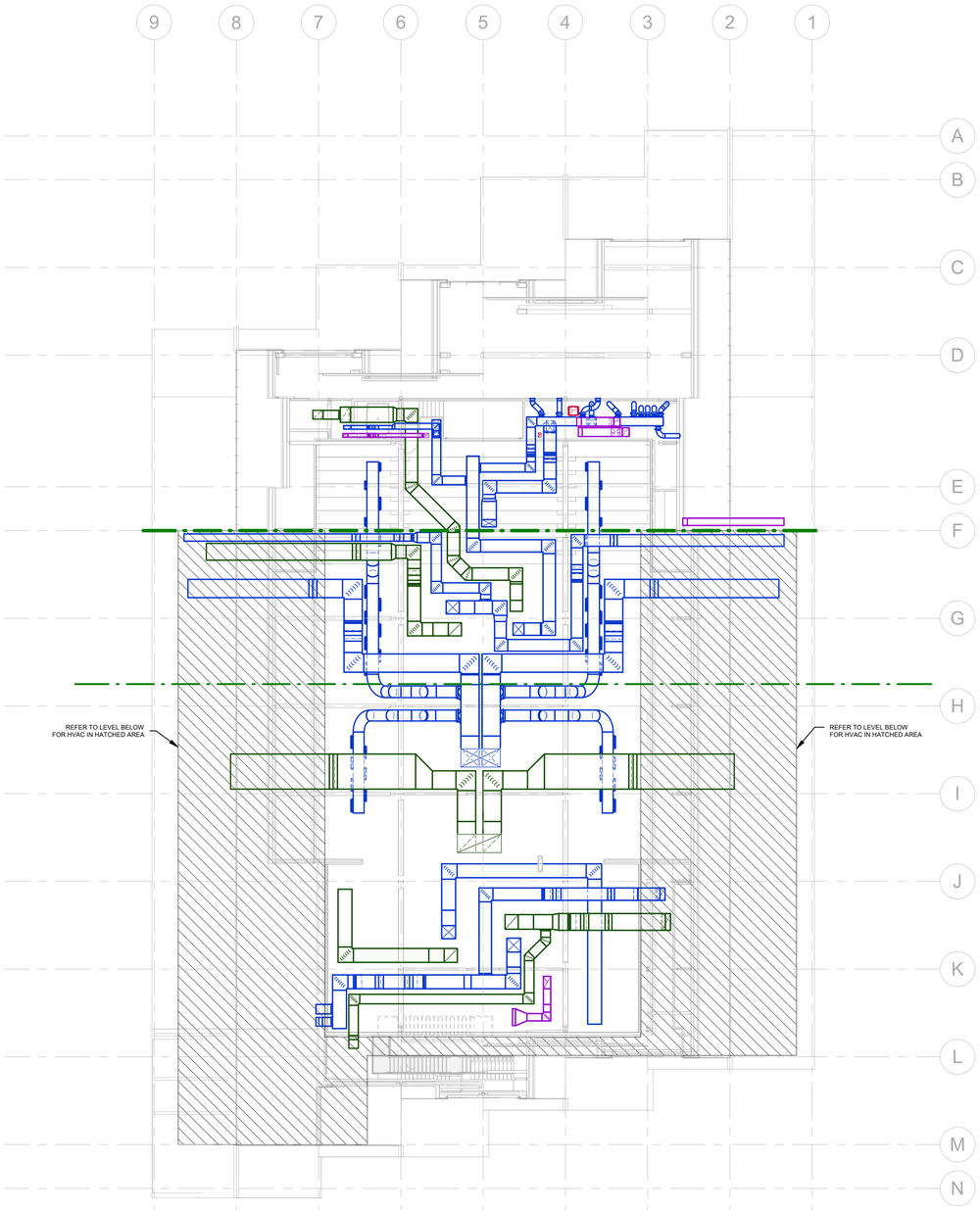


SHEET NAME

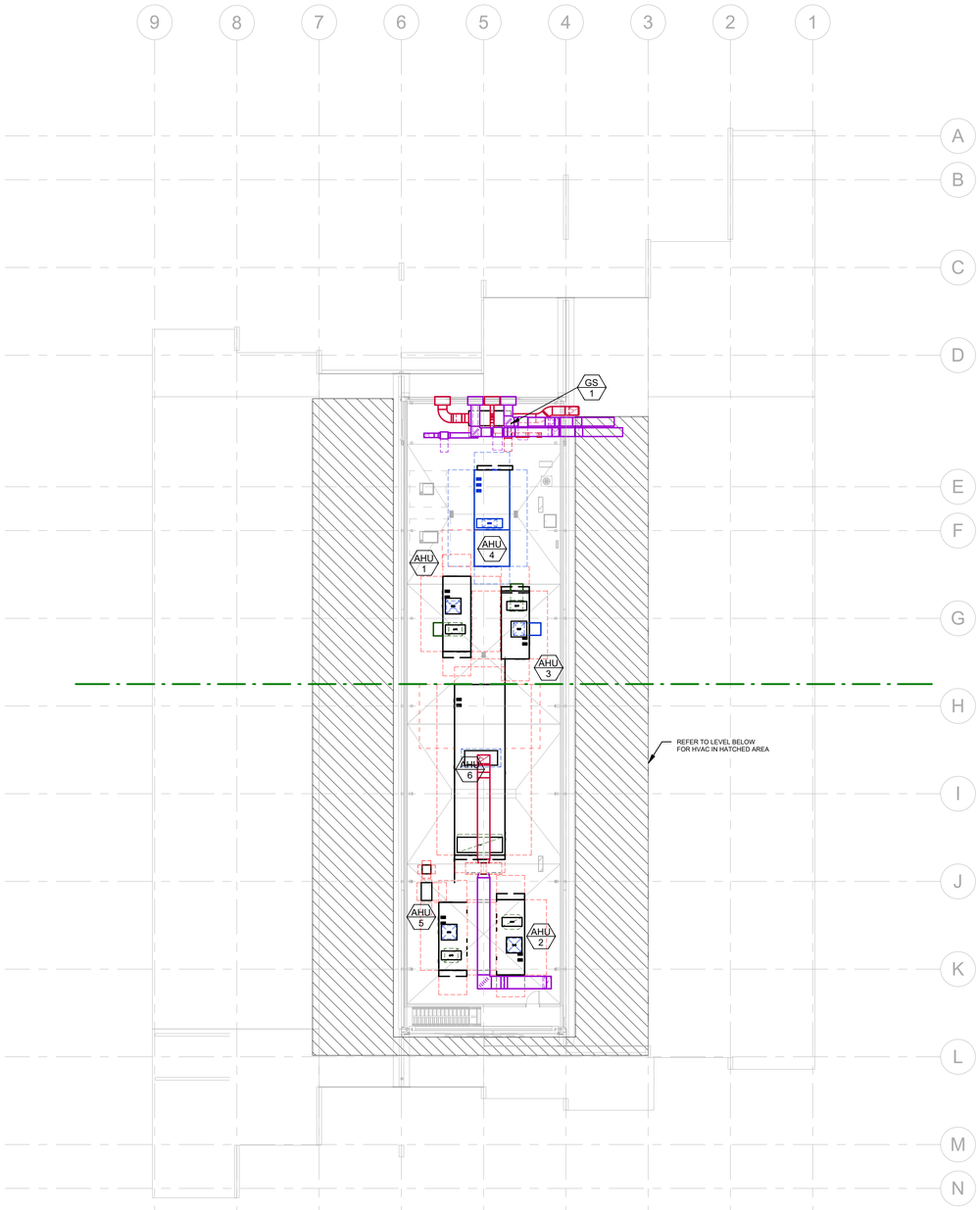
MECHANICAL OVERALL PLANS

PROJECT NUMBER
24531
DOB NUMBER
5050
SCALE
1/16" = 1'-0"
FORMAT
ARCH D

SHEET NUMBER
M100



1 MECHANICAL LEVEL 2 MEZZANINE PLAN - OVERALL
1/16" = 1'-0"



2 MECHANICAL MECH PENTHOUSE PLAN - OVERALL
1/16" = 1'-0"

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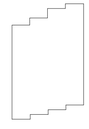

SHEET NAME

MECHANICAL OVERALL PLANS

PROJECT NUMBER 24531
DOB NUMBER 5050
SCALE 1/16" = 1'-0"
FORMAT ARCH D

SHEET NUMBER **M101**

MECHANICAL PLAN NOTES

MH1 DUCT UP TO LEVEL ABOVE.

MH46 REFER TO LEVEL ABOVE FOR CONTINUATION.

MH66 PLUMBING CHASES ON EXTERIOR WALLS SHALL BE PROVIDED WITH 6"X14" TITUS 30RL GRILLES WITHIN 12" OF THE FLOOR AND 12" OF THE CEILING. A PAIR OF HIGH/LOW GRILLES SHALL BE PROVIDED PER EVERY FOUR PLUMBING FIXTURES. COORDINATE LOCATION WITH PLUMBING FIXTURES AND PARTITIONS AS SHOWN ON ARCHITECTURAL PLANS PRIOR TO INSTALLATION.

1 HVAC LEVEL 1 PLAN - AREA A
1/8" = 1'-0"

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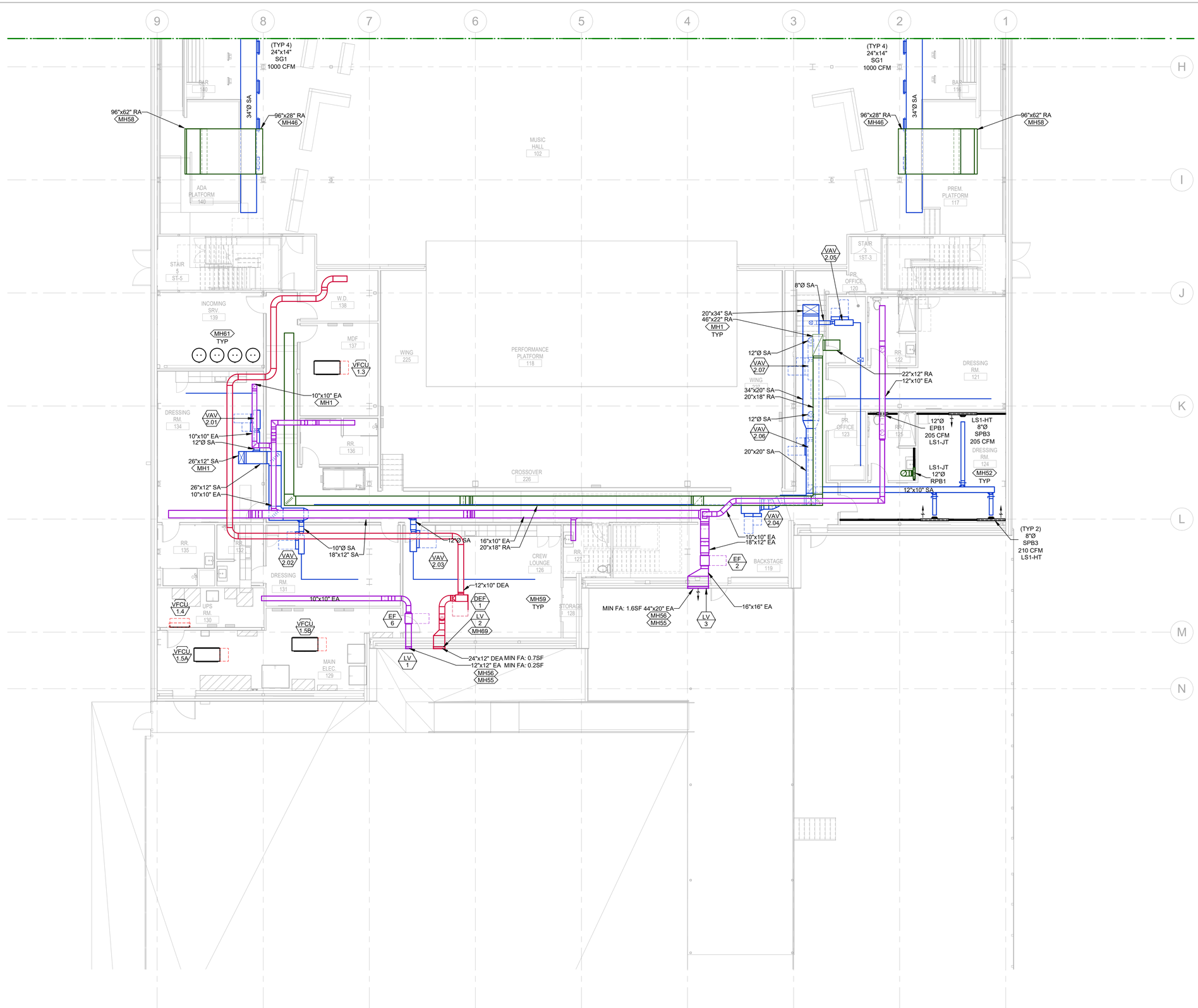
KEY PLAN (NTS)

SHEET NAME

HVAC LEVEL 1 PLAN - AREA A

PROJECT NUMBER 24531
DOB NUMBER 5050
SCALE 1/8" = 1'-0"
FORMAT ARCH D

SHEET NUMBER **M101A**



1 HVAC LEVEL 1 PLAN - AREA B
1/8" = 1'-0"

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MECHANICAL PLAN NOTES

MH1 DUCT UP TO LEVEL ABOVE.

MH46 REFER TO LEVEL ABOVE FOR CONTINUATION.

MH52 GENERAL DUCTWORK AND DIFFUSER LAYOUT SHOWN WITHIN THIS ROOM IS TYPICAL FOR ALL DRESSING ROOMS AND DRESSING ROOM RESTROOMS. DIFFUSER COUNT AND TOTAL AIRFLOW MAY VARY.

MH55 COORDINATE LOUVER LOCATION AND SIZE WITH MINIMUM REQUIRED FREE AREA AND FACADE PANELING. CONFIRM LOUVER LOCATIONS WITH ARCHITECT. BLANK OFF PORTIONS OF GREASE EXHAUST LOUVER PLENUM AS REQUIRED TO MAINTAIN A MINIMUM VELOCITY OF 500FPM AT DISCHARGE.

MH56 ARCHITECTURAL PROVIDED LOUVER WITH MINIMUM FREE AREA AS NOTED ON PLANS. REFER TO ARCHITECURAL PLANS FOR LOUVER INFORMATION. PROVIDE SHEET METAL PLENUM FULL SIZE OF LOUVER FACE FOR CONNECTION OF DUCTWORK. MAINTAIN 3FT SEPARATION BETWEEN LOUVER AND DOOR.

MH58 FLARE RETURN DUCT TO OPENING SIZE SHOWN. PROTECT OPENING WITH 1" HARDWARE FABRIC AND PAINT EXPOSED INTERIOR AND EXTERIOR OF DUCT BLACK.

MH59 CONTINUATION OF DUCTWORK AND LAY-IN DIFFUSERS FOR BOH AND OFFICE AREAS TO BE DEVELOPED IN CD PHASE.

MH61 GAS FIRED WATER HEATERS SHALL BE DIRECT VENTED THROUGH SIDEWALL. FOLLOW ALL MANUFACTURER'S REQUIREMENTS AND APPLICABLE CODES FOR VENT AND COMBUSTION AIR.

MH69 REMOVE SCREEN FROM DRYER EXHAUST LOUVER. PROVIDE BACKDRAFT DAMPER WHERE DRYER EXHAUST DUCT TERMINATES WITHIN LOUVER PLENUM. PROVIDE ACCESS PANEL WITHIN PLENUM FOR LINT CLEANOUT.

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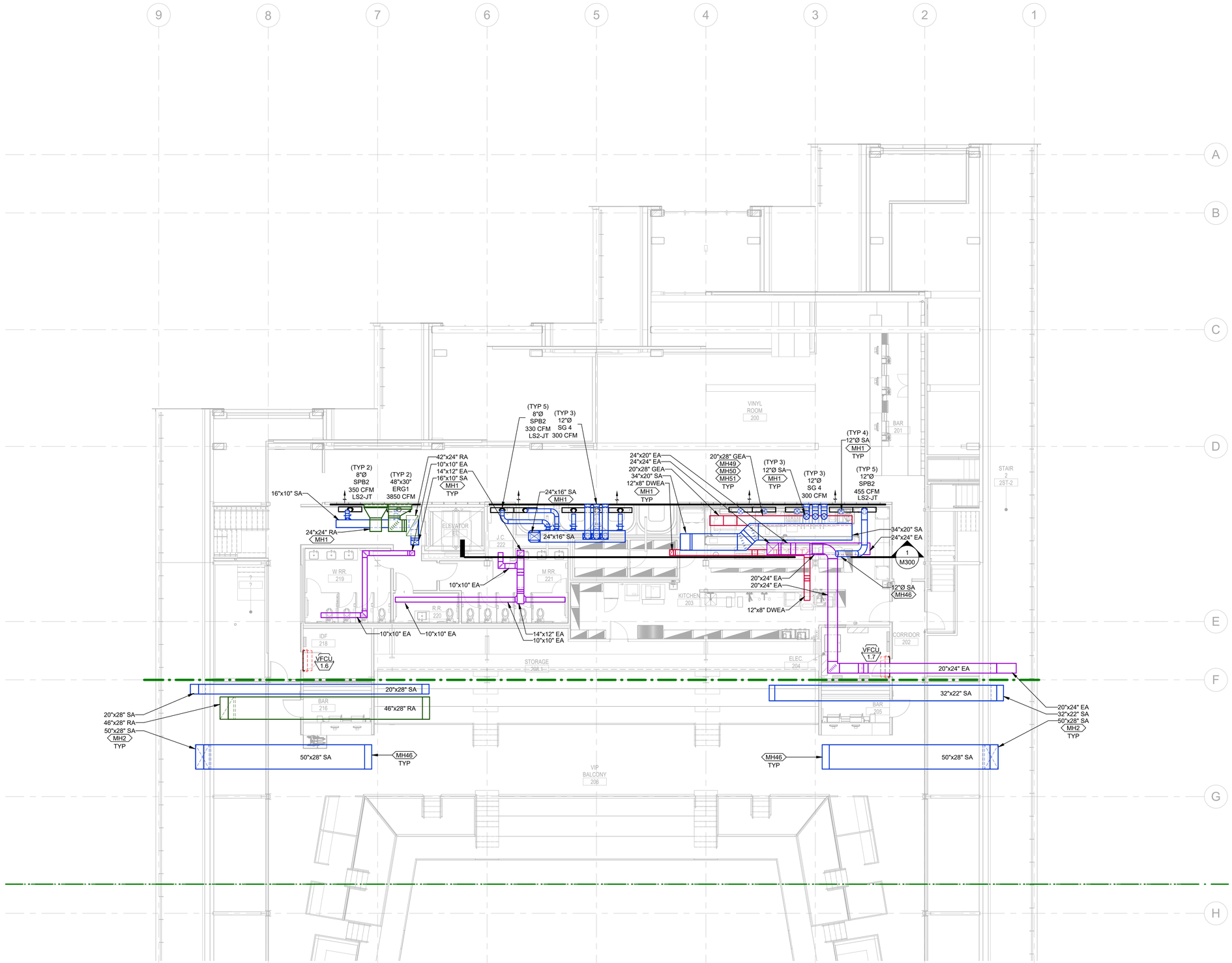
KEY PLAN (NTS)

SHEET NAME

HVAC LEVEL 1 PLAN - AREA B

PROJECT NUMBER 24531
DOB NUMBER 5050
SCALE 1/8" = 1'-0"
FORMAT ARCH D

SHEET NUMBER **M101B**



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

MECHANICAL PLAN NOTES

MH1 DUCT UP TO LEVEL ABOVE.

MH2 DUCT DOWN TO LEVEL BELOW.

MH46 REFER TO LEVEL ABOVE FOR CONTINUATION.

MH49 PROVIDE RADIUS ELBOWS WITHOUT TURNING VANES FOR TYPE 1 GREASE HOOD EXHAUST DUCTWORK. SLOPE GREASE DUCT BACK TOWARDS HOOD AT MINIMUM OF 1/4" PER LINEAL FOOT. PROVIDE TRANSITIONS AS REQUIRED TO HOOD AND EXHAUST FAN CONNECTIONS. GREASE DUCTS SHALL BE CONTAINED IN A UL APPROVED GREASE WRAP SYSTEM.

MH50 VERIFY FINAL HOOD EXHAUST COLLAR CONNECTION SIZES, AIRFLOWS AND QUANTITIES WITH MANUFACTURER'S HOOD SUBMITTALS. CONTRACTOR SHALL PROVIDE BRANCH DUCT CONNECTIONS TO EACH HOOD COLLAR AS NECESSARY, SIZED SAME AS HOOD COLLAR CONNECTION. HOODS SHALL BE PROVIDED WITH BALANCING DAMPERS IN EXHAUST COLLARS FOR SYSTEM AIRFLOW BALANCING.

MH51 PROVIDE GREASE EXHAUST DUCT CLEANOUTS ON SIDE OF DUCT. PROVIDE ADDITIONAL CLEANOUTS AS NEEDED PER CODE REQUIREMENTS, LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS, OR AS REQUIRED TO FACILITATE CLEANING. COORDINATE WITH ALL TRADES TO AVOID BLOCKING ACCESS POINTS.

BENTONVILLE BALLROOM

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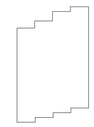

SHEET NAME

HVAC LEVEL 2 PLAN - AREA A

PROJECT NUMBER **24531**
DOB NUMBER **5050**
SCALE **1/8" = 1'-0"**
FORMAT **ARCH D**

SHEET NUMBER **M102A**

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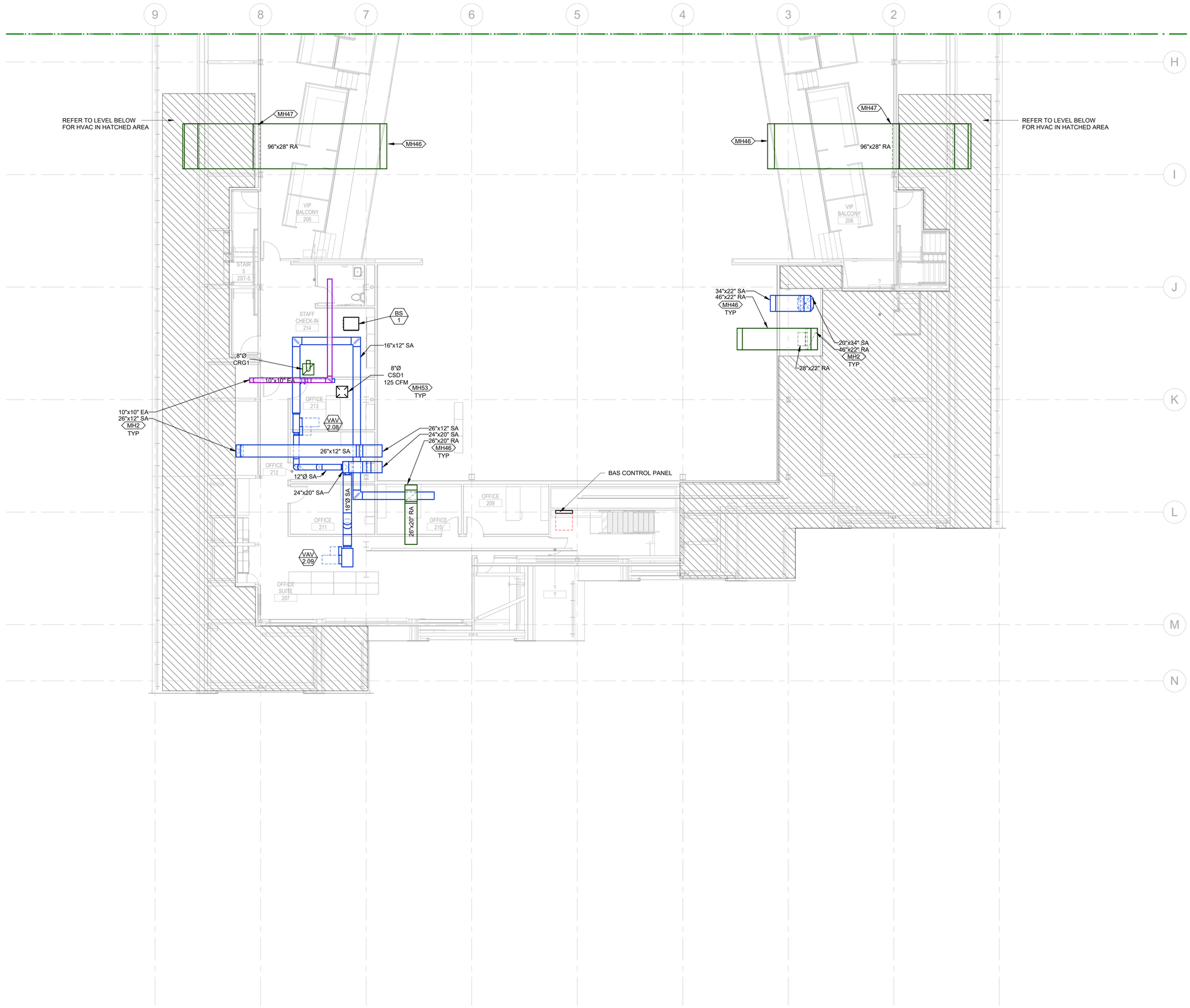

1 HVAC LEVEL 2 PLAN - AREA B
1/8" = 1'-0"

MECHANICAL PLAN NOTES

MH2 DUCT DOWN TO LEVEL BELOW.

MH46 REFER TO LEVEL ABOVE FOR CONTINUATION.

MH47 REFER TO LEVEL BELOW FOR CONTINUATION.

MH53 GENERAL DUCTWORK AND DIFFUSER LAYOUT SHOWN WITHIN THIS ROOM IS TYPICAL FOR ALL OFFICES. DIFFUSER COUNT AND TOTAL AIRFLOW MAY VARY.

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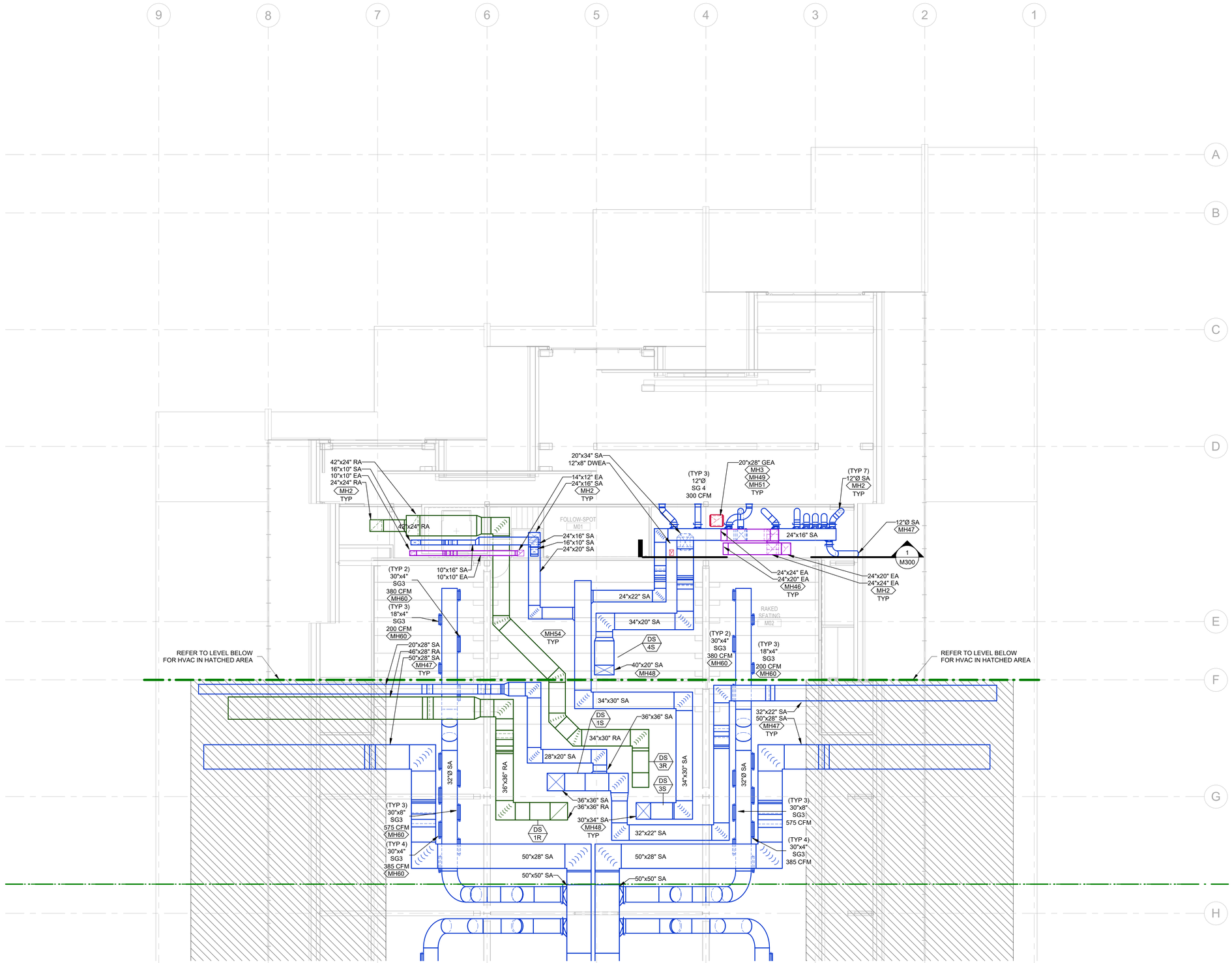
KEY PLAN (NTS)

SHEET NAME

HVAC LEVEL 2 PLAN - AREA B

PROJECT NUMBER **24531**
DOB NUMBER **5050**
SCALE **1/8" = 1'-0"**
FORMAT **ARCH D**

SHEET NUMBER **M102B**



1 HVAC LEVEL 2 MEZZANINE PLAN - AREA A
1/8" = 1'-0"

MECHANICAL PLAN NOTES

MH2 DUCT DOWN TO LEVEL BELOW.

MH3 DUCT UP/DOWN TO LEVEL ABOVE/BELOW.

MH46 REFER TO LEVEL ABOVE FOR CONTINUATION.

MH47 REFER TO LEVEL BELOW FOR CONTINUATION.

MH48 DUCT UP TO EQUIPMENT ON LEVEL ABOVE. TRANSITION FROM DUCT SIZE ON PLANS TO FULL SIZE OF CONNECTION WITH CURB.

MH49 PROVIDE RADIUS ELBOWS WITHOUT TURNING VANES FOR TYPE 1 GREASE HOOD EXHAUST DUCTWORK. SLOPE GREASE DUCT BACK TOWARDS HOOD AT MINIMUM OF 1/4" PER LINEAL FOOT. PROVIDE TRANSITIONS AS REQUIRED TO HOOD AND EXHAUST FAN CONNECTIONS. GREASE DUCTS SHALL BE CONTAINED IN A UL APPROVED GREASE WRAP SYSTEM.

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MH54 WHERE POSSIBLE BOTTOM OF ALL RECTANGULAR DUCTWORK LOCATED BETWEEN PENTHOUSE TRUSSES SHALL BE MOUNTED AT THE SAME BOTTOM OF DUCT ELEVATION. BOTTOM OF RECTANGULAR DUCTWORK BETWEEN PENTHOUSE TRUSSES SHALL BE LOCATED ABOVE THE TOP OF THE BOTTOM TRUSS CHORD.

MH60 MOUNT DIFFUSER 45 DEGREES BELOW HORIZONTAL.

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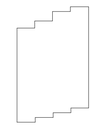

SHEET NAME

HVAC LEVEL 2M - MEZZANINE PLAN - AREA A

PROJECT NUMBER 24531
DOB NUMBER 5050
SCALE 1/8" = 1'-0"
FORMAT ARCH D

SHEET NUMBER **M103A**

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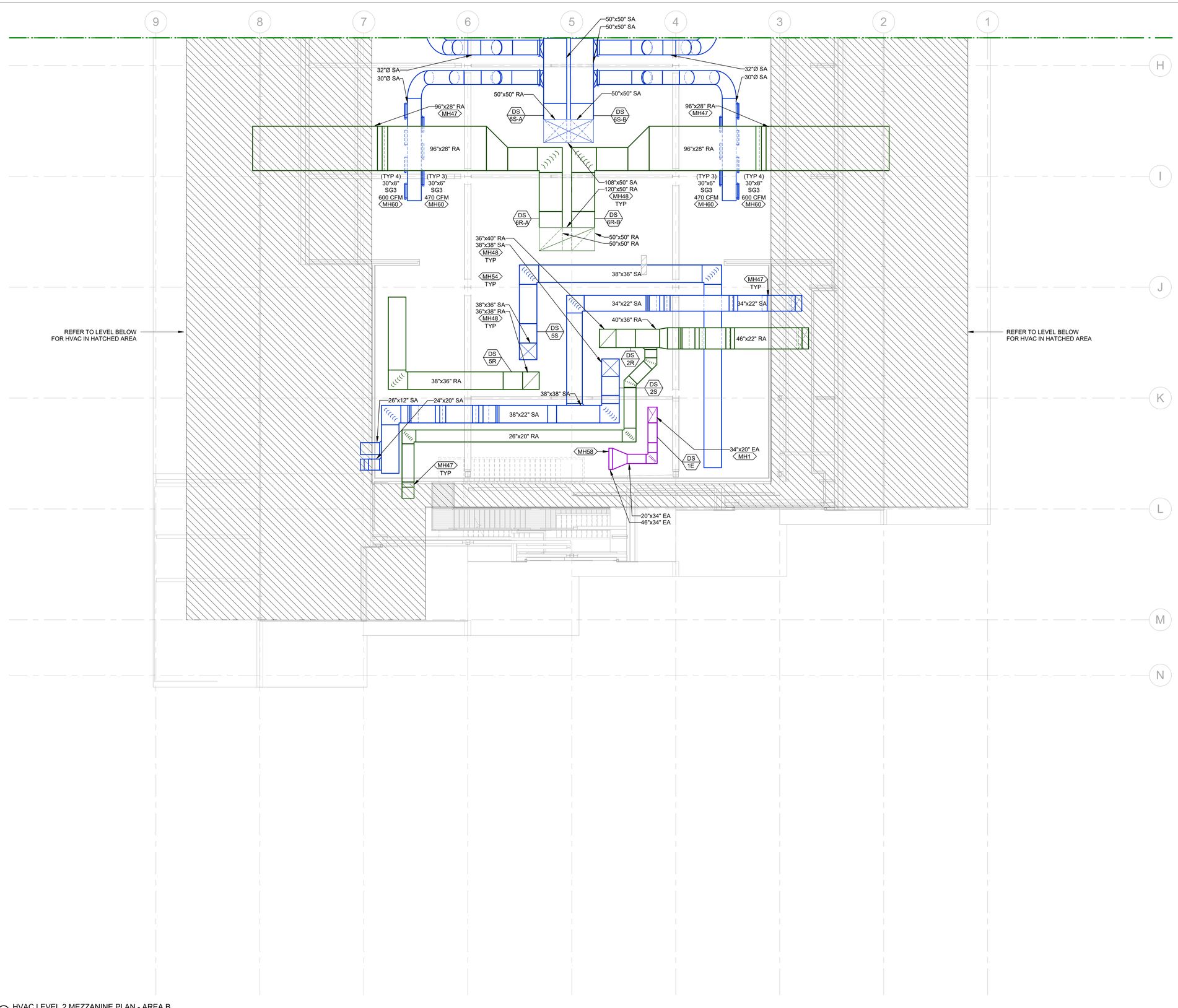

1 HVAC LEVEL 2 MEZZANINE PLAN - AREA B
1/8" = 1'-0"

MECHANICAL PLAN NOTES

MH1 DUCT UP TO LEVEL ABOVE.

MH47 REFER TO LEVEL BELOW FOR CONTINUATION.

MH48 DUCT UP TO EQUIPMENT ON LEVEL ABOVE. TRANSITION FROM DUCT SIZE ON PLANS TO FULL SIZE OF CONNECTION WITH CURB.

MH54 WHERE POSSIBLE BOTTOM OF ALL RECTANGULAR DUCTWORK LOCATED BETWEEN PENTHOUSE TRUSSES SHALL BE MOUNTED AT THE SAME BOTTOM OF DUCT ELEVATION. BOTTOM OF RECTANGULAR DUCTWORK BETWEEN PENTHOUSE TRUSSES SHALL BE LOCATED ABOVE THE TOP OF THE BOTTOM TRUSS CHORD.

MH58 FLARE RETURN DUCT TO OPENING SIZE SHOWN. PROTECT OPENING WITH 1" HARDWARE FABRIC AND PAINT EXPOSED INTERIOR AND EXTERIOR OF DUCT BLACK.

MH60 MOUNT DIFFUSER 45 DEGREES BELOW HORIZONTAL.

BENTONVILLE BALLROOM

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KEY PLAN (NTS)

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SHEET NAME

HVAC LEVEL 2M - MEZZANINE PLAN - AREA B

PROJECT NUMBER
24531
DOB NUMBER
5050
SCALE
1/8" = 1'-0"
FORMAT
ARCH D

SHEET NUMBER
M103B

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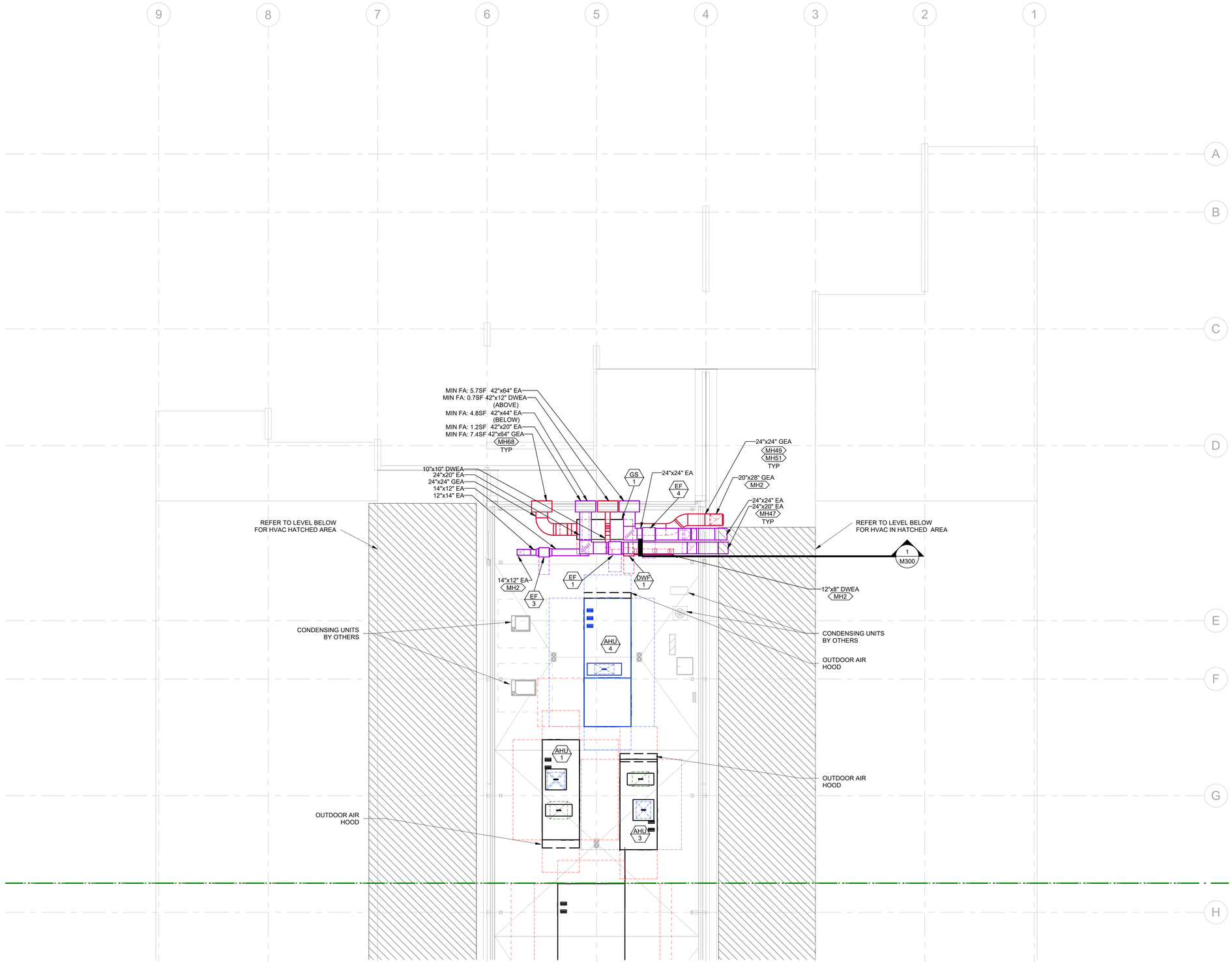

1 HVAC MECH PENTHOUSE PLAN - AREA A
1/8" = 1'-0"

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MECHANICAL PLAN NOTES

MH2 DUCT DOWN TO LEVEL BELOW.

MH47 REFER TO LEVEL BELOW FOR CONTINUATION.

MH49 PROVIDE RADIUS ELBOWS WITHOUT TURNING VANES FOR TYPE 1 GREASE HOOD EXHAUST DUCTWORK. SLOPE GREASE DUCT BACK TOWARDS HOOD AT MINIMUM OF 1/4" PER LINEAL FOOT. PROVIDE TRANSITIONS AS REQUIRED TO HOOD AND EXHAUST FAN CONNECTIONS. GREASE DUCTS SHALL BE CONTAINED IN A UL APPROVED GREASE WRAP SYSTEM.

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MH68 TERMINATE EXHAUST DUCTWORK AT METAL MESH WALL PANEL PROVIDED BY ARCHITECT. REFER TO ARCHITECTURAL PLANS FOR MESH INFORMATION. EXHAUST DUCT SHALL BE SIZED TO MAINTAIN MINIMUM FREE AREA NOTED ON PLANS WITH FREE AREA PERCENTAGE OF THE METAL MESH PANEL.

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KEY PLAN (NTS)

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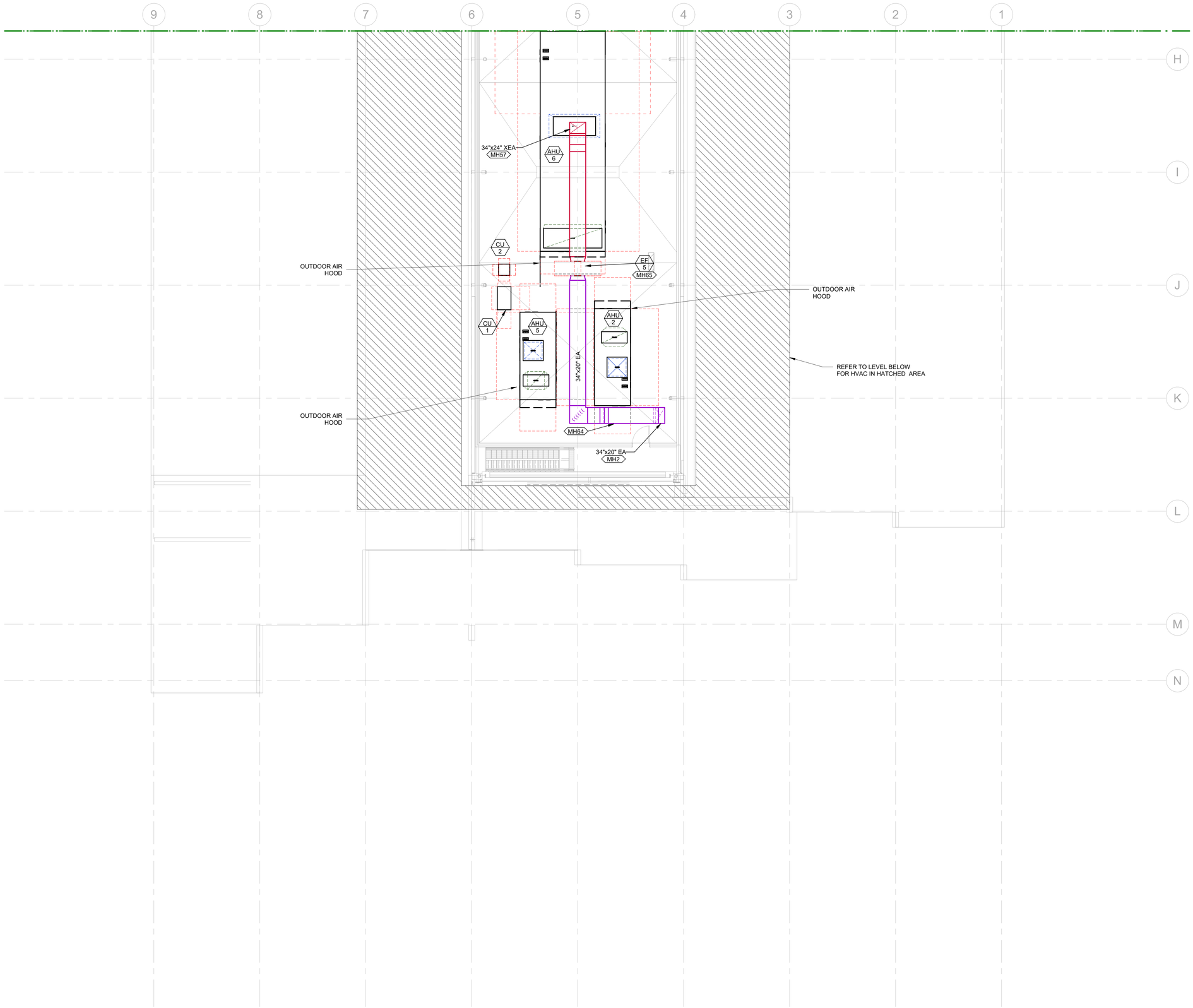
SHEET NAME

HVAC ROOF PLAN - AREA A

PROJECT NUMBER 24531
DOB NUMBER 5050
SCALE 1/8" = 1'-0"
FORMAT ARCH D

SHEET NUMBER **M104A**



1 HVAC MECH PENTHOUSE PLAN - AREA B
1/8" = 1'-0"

MECHANICAL PLAN NOTES

MH2 DUCT DOWN TO LEVEL BELOW.

MH57 EXHAUST SHALL TERMINATE VERTICALLY WITHIN MECHANICAL PENTHOUSE. PRIOR TO ELBOW TURNING UPWARD, DUCT SHALL SLOPE DOWNWARDS AND BE PROVIDED WITH A DRAIN TO REMOVE RAINWATER FROM THE DUCT.

MH64 ROUTE SLOPED EXHAUST DUCT TIGHT TO PERMEABLE ROOF ABOVE. COORDINATE WITH AIR HANDLER LOCATION TO AVOID OBSTRUCTING CLEARANCES.

MH65 MOUNT FAN WITH ALL-THREAD HANGING RODS FROM STRUCTURE ABOVE.

BENTONVILLE BALLROOM

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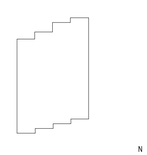

SHEET NAME

HVAC ROOF PLAN - AREA B

PROJECT NUMBER
24531

DOB NUMBER
5050

SCALE
1/8" = 1'-0"

FORMAT
ARCH D

SHEET NUMBER
M104B

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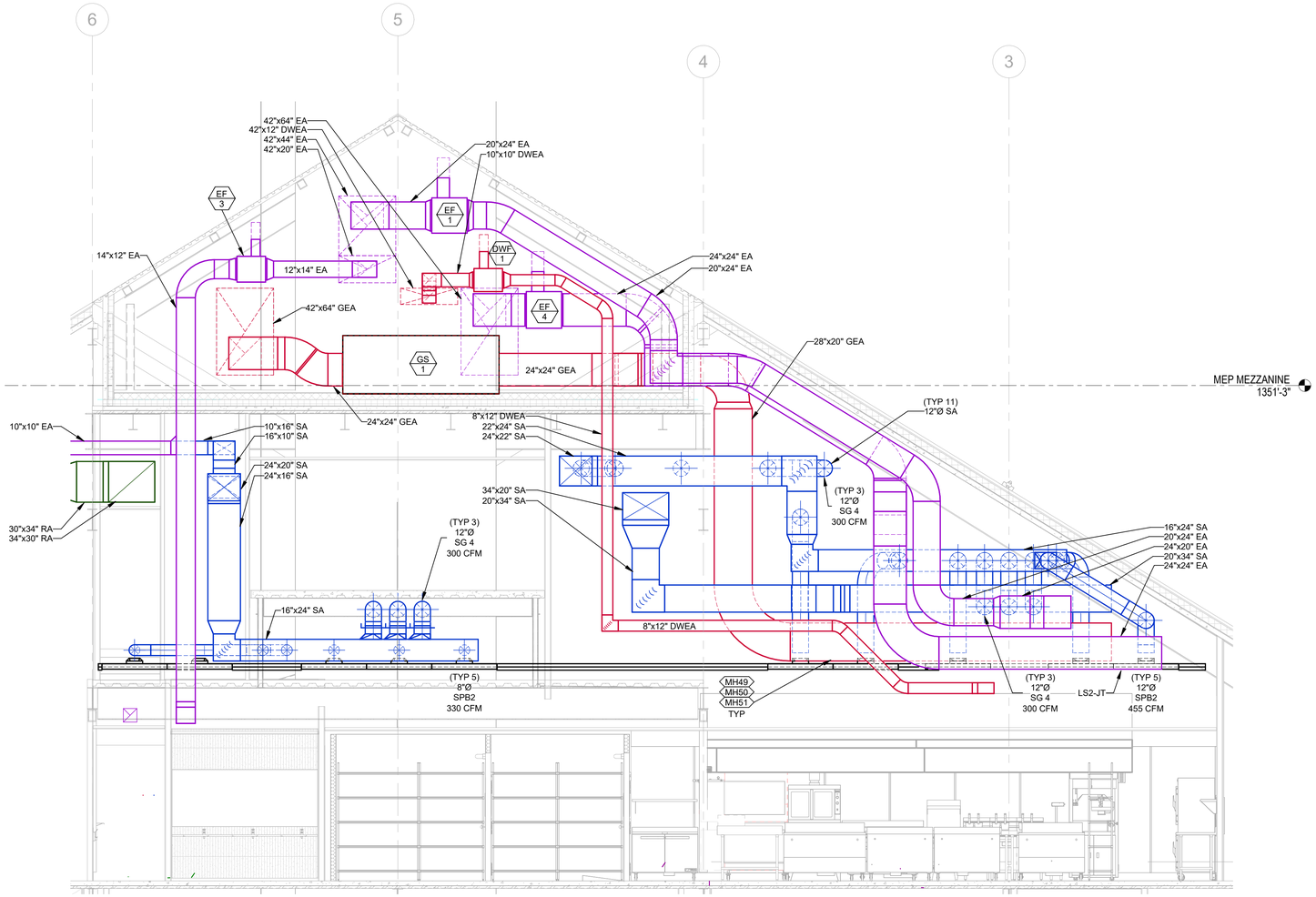

1 Kitchen Elevation View
1/4" = 1'-0"

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BENTONVILLE BALLROOM

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KEY PLAN (NTS)

SHEET NAME

MECHANICAL ENLARGED PLANS

PROJECT NUMBER: 24531
DDB NUMBER: 5050
SCALE: 1/4" = 1'-0"
FORMAT: ARCH D

SHEET NUMBER: M300

ROOFTOP UNIT SCHEDULE (HEAT PUMP WITH AUX ELECTRIC HEAT)

MARK	AREA SERVED	MANUFACTURER	MODEL	NOMINAL TONS	UNIT TYPE	SUPPLY FAN: NO OF FANS	SUPPLY FAN: CFM	SUPPLY FAN: ESP (IN)	SUPPLY FAN: BHP PER FAN	SUPPLY FAN: NOM HP PER FAN	SUPPLY FAN: VFD (Y/N)	EXHAUST FAN: NO OF FANS	EXHAUST FAN: CFM	EXHAUST FAN: ESP (IN)	EXHAUST FAN: BHP PER FAN	EXHAUST FAN: NOM HP PER FAN	EXHAUST FAN: VFD (Y/N)	HAS ERV (Y/N)	WHEEL DESIGN: EA (CFM)	WHEEL DESIGN: SA (CFM)	MAX WHEEL PRESSURE DROP (IN)	COOLING COIL: REFR TYPE	COOLING COIL: TH (MBH)	COOLING COIL: SH (MBH)	COOLING COIL: EAT (°F DB)	COOLING COIL: EAT (°F WB)	COOLING COIL: LAT (°F DB)	COOLING COIL: LAT (°F WB)	COOLING COIL: MIN EFF (EER)	COOLING COIL: MIN EFF (IEER)	ISMRE	NO OF STAGES	MAX VEL (FPM)	HTG CFM	ELECTRIC PREHEATING COIL: NOM (KW)	ELECTRIC PREHEATING COIL: MIN NO STAGES	ELECTRIC PREHEATING COIL: EAT (°F DB)	ELECTRIC PREHEATING COIL: LAT (°F DB)	MIN TOTAL HTG CAP (MBH)	HEAT PUMP HEATING COIL: MIN OUT (MBH)	HEAT PUMP HEATING COIL: AMBIENT (DB)	HEAT PUMP HEATING COIL: EAT (°F DB)	HEAT PUMP HEATING COIL: LAT (°F DB)	HEAT PUMP HEATING COIL: COP	ELECTRIC AUXILIARY HEATING COIL: MIN OUT (MBH)	ELECTRIC AUXILIARY HEATING COIL: NOM (KW)	ELECTRIC AUXILIARY HEATING COIL: MIN NO STAGES	MIN OA (CFM)	ABS MIN OA (CFM)	ELECTRICAL: V/PH	ELECTRICAL: MCA	ELECTRICAL: MOCP	WEIGHT (LBS)	NOTES
AHU 1	LVL 1 FOH	DAIKIN	DPSH30B	30.0	MZVAV	1	9800	1.00	13.00	15.00	Yes	1	9800	0.25	5.02	6.10	No	Yes	4640	4640	1.40	R32	335.1	293.5	80.1	65.1	55.0	54.0	9.6	16.6		2	500	9800					257.5	178.1	15.0	53.4	55.0	3.3	68.3	20.0	SCR	4640	860	460/3	118	125	7500	A-Z
AHU 2	BOH	DAIKIN	DPSH30B	30.0	MZVAV	1	11350	1.00	8.17	10.00	Yes	1	11350	0.50	3.3	6.10	No	Yes	1305	1305	1.00	R32	319.1	279.2	75.5	62.3	55.0	54.0	9.6	16.6		2	550	11350					55.6	173.7	15.0	68.4	55.0	3.3	68.3	20.0	SCR	1305	1100	460/3	113	125	7500	A-Z
AHU 3	VINYL ROOM	DAIKIN	DPSH30B	30.0	SZVAV	1	7700	1.00	3.69	7.50	Yes							No				R32	360.2	226.1	82.9	69.0	55.0	54.0	9.6	16.6		2	500	3850					277.6	207.1	20.0	15.2	85.0	3.3	307.2	90.0	SCR	3030	695	460/3	127	150	6500	A-X
AHU 4	KITCHEN	DAIKIN	DPSA040	40.0	SZVAV	2	5200	1.00	1.76	7.90	Yes							No				R32	487.2	245.4	99.3	80.1	55.0	54.0	10.2		6.53	4	500	5200	40	SCR	18	42	453.6	283.7	18.0	42.0	85.0	3.2	438.7	110.0	SCR	5200	170	460/3	336	350	12500	A-X, A
AHU 5	STAGE	DAIKIN	DPSH25B	25.0	SZVAV	1	8500	1.00	4.64	7.50	Yes							No				R32	225.1	184.1	75.7	63.1	55.0	54.0	10.3	18.6		2	500	4250					146.9	166.9	15.0	51.8	85.0	3.3	153.6	45.0	SCR	1120	1120	460/3	131	150	6500	A-X, A

MODEL NUMBERS AND NOMINAL TONS LISTED SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER, MODEL NUMBERS, OR NOMINAL TONS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

A. REFER TO ROOFTOP UNIT CONTROL MATRIX FOR ADDITIONAL UNIT FEATURES, COMPONENTS, MODULES, ACCESSORIES, AND CONTROLS THAT SHALL BE PROVIDED WITH THE EQUIPMENT.
B. EQUIPMENT SIZED FOR 105 °F AMBIENT TEMPERATURE.
C. PROVIDE 4" MERV 13, EFFICIENT PLEATED THROWAWAY AIR FILTERS.
D. PROVIDE FACTORY MOUNTED DISCONNECT INSTALLED ON SERVICE SIDE OF UNIT.
E. STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL WITH UNIT.
F. VARIABLE FREQUENCY DRIVE FURNISHED BY RTU/AHU MANUFACTURER.
G. PROVIDE SHAFT GROUNDING SYSTEM ON MOTOR. REFER TO MOTOR SPECIFICATION FOR ADDITIONAL INFORMATION.
H. PROVIDE SINGLE POINT POWER CONNECTION.
J. COORDINATE SIZE OF CONDUCTOR TERMINATION LUGS WITH CONDUCTOR SIZES SHOWN ON ELECTRICAL DRAWINGS.
K. PROVIDE 125 VAC, 20 AMP DUPLEX CONVENIENCE RECEPTACLE MOUNTED TO UNIT READY FOR FIELD WIRING WITH A COVER UL LISTED FOR WET AND DAMPER LOCATIONS WHEN IN USE.
L. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT.
N. PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP PLUS SPECIFIED EXTERNAL STATIC PRESSURE DROP. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE REQUIRED BHP.
P. PROVIDE INSULATED VIBRATION ISOLATION CURB WITH MINIMUM HEIGHT OF 14 INCHES. CURB HEIGHT WILL ACCOUNT FOR CONDENSATE DRAIN P-TRAP DEPTH REQUIREMENTS AND DUCT CONNECTIONS. LOCK INTERNAL FAN ISOLATION TO PREVENT DOUBLE ISOLATION.
R. SCHEDULED WEIGHT IS THE MAXIMUM ALLOWABLE OPERATING WEIGHT OF THE EQUIPMENT AND CURB AND FILL.
S. COOLING COIL LAT IS LEAVING AIR TEMPERATURE OF COIL.
T. PROVIDE VARIABLE SPEED OR DIGITAL SCROLL LEAD COMPRESSOR FOR CAPACITY CONTROL.
U. PROVIDE GUARDS TO PROTECT CONDENSER COIL FROM HAIL OR OTHER DAMAGE.
V. PROVIDE HEATER TO MEET OR EXCEED SCHEDULED MINIMUM MBH OUTPUT. NOMINAL KW IS BASED ON LISTED MANUFACTURER'S STANDARD PRODUCT. COORDINATE EQUIPMENT POWER SUPPLY WITH ELECTRICAL CONTRACTOR IF DIFFERENT FROM THAT SCHEDULED.
W. SELECT EQUIPMENT FOR ELEVATION OF 1296 FEET ABOVE SEA LEVEL.
X. ABS. MIN. O/A IS THE ABSOLUTE MINIMUM OUTSIDE AIR CFM USING VENTILATION RESET OR DEMAND CONTROL VENTILATION.
Y. PROVIDE DEFROST CONTROL FOR ENERGY RECOVERY WHEEL.
Z. PROVIDE BYPASS DAMPERS AROUND THE WHEEL. SIZE WHEEL FOR DESIGN SUPPLY CFM.
AA. PROVIDE HOT GAS REHEAT COIL.

ROOFTOP UNIT SCHEDULE (DX COOLING, NATURAL GAS HEAT)

MARK	SERVICE	MANUFACTURER	MODEL	NOMINAL TONS	UNIT TYPE	SUPPLY FAN: NO OF FANS	SUPPLY FAN: FAN TYPE	SUPPLY FAN: CFM	SUPPLY FAN: ESP (IN)	SUPPLY FAN: BHP	SUPPLY FAN: NOM HP PER FAN	SUPPLY FAN: VFD (Y/N)	HAS ERV (Y/N)	COOLING COIL: TH (MBH)	COOLING COIL: SH (MBH)	COOLING COIL: EAT (°F DB)	COOLING COIL: EAT (°F WB)	COOLING COIL: LAT (°F DB)	COOLING COIL: LAT (°F WB)	COOLING COIL: REFR TYPE	COOLING COIL: MIN EFF (EER)	COOLING COIL: MIN EFF (IEER)	GAS FIRED HEAT EXCHANGER: NO OF STAGES	GAS FIRED HEAT EXCHANGER: MAX VEL (FPM)	GAS FIRED HEAT EXCHANGER: HTG CFM	GAS FIRED HEAT EXCHANGER: MIN OUT (MBH)	GAS FIRED HEAT EXCHANGER: NOM INPUT (MBH)	GAS FIRED HEAT EXCHANGER: MIN EFF (%)	GAS FIRED HEAT EXCHANGER: EAT (°F DB)	GAS FIRED HEAT EXCHANGER: LAT (°F DB)	GAS FIRED HEAT EXCHANGER: MIN NO STAGES	GAS FIRED HEAT EXCHANGER: MAX. VEL (FPM)	MIN OA (CFM)	ABS MIN OA (CFM)	ELECTRICAL: V/PH	ELECTRICAL: MCA	ELECTRICAL: MOCP	WEIGHT (LBS)	NOTES
AHU 6	MUSIC HALL	DAIKIN	DPSA160	160.0	SZVAV	6	AF	38200	1.0	37.80	10.00	Yes	No	1965.7	1308.1	86.4	70.9	55.0	54.0	R32	9.6	15.4	6	500	26740	1944.0	2400.0	80	18.0	85.0	MOD	550	17800	1830	460/3	337	350	30000	ALL

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NOTES:

A. REFER TO ROOFTOP UNIT CONTROL MATRIX FOR ADDITIONAL UNIT FEATURES, COMPONENTS, MODULES, ACCESSORIES, AND CONTROLS THAT SHALL BE PROVIDED WITH THE EQUIPMENT.
B. EQUIPMENT SIZED FOR 105 °F AMBIENT TEMPERATURE.
C. PROVIDE 4" MERV 13, EFFICIENT PLEATED THROWAWAY AIR FILTERS.
D. PROVIDE FACTORY MOUNTED DISCONNECT INSTALLED ON SERVICE SIDE OF UNIT.
E. VARIABLE FREQUENCY DRIVE FURNISHED BY RTU/AHU MANUFACTURER.
F. PROVIDE SHAFT GROUNDING SYSTEM ON MOTOR. REFER TO MOTOR SPECIFICATION FOR ADDITIONAL INFORMATION.
G. PROVIDE SINGLE POINT POWER CONNECTION.
H. COORDINATE SIZE OF CONDUCTOR TERMINATION LUGS WITH CONDUCTOR SIZES SHOWN ON ELECTRICAL DRAWINGS.
J. PROVIDE 125 VAC, 20 AMP DUPLEX CONVENIENCE RECEPTACLE MOUNTED TO UNIT READY FOR FIELD WIRING WITH A COVER UL LISTED FOR WET AND DAMPER LOCATIONS WHEN IN USE.
K. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT.
L. PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP PLUS SPECIFIED EXTERNAL STATIC PRESSURE DROP. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE REQUIRED BHP.
M. PROVIDE INSULATED VIBRATION ISOLATION CURB WITH MINIMUM HEIGHT OF 14 INCHES. CURB HEIGHT WILL ACCOUNT FOR CONDENSATE DRAIN P-TRAP DEPTH REQUIREMENTS AND DUCT CONNECTIONS. LOCK FAN ISOLATION TO PREVENT DOUBLE ISOLATION.
N. SCHEDULED WEIGHT IS THE MAXIMUM ALLOWABLE OPERATING WEIGHT OF THE EQUIPMENT AND CURB AND FILL.
P. COOLING COIL LAT IS LEAVING AIR TEMPERATURE OF COIL.
Q. SELECT EQUIPMENT FOR ELEVATION OF 1296 FEET ABOVE SEA LEVEL.
R. ABS. MIN. O/A IS THE ABSOLUTE MINIMUM OUTSIDE AIR CFM USING VENTILATION RESET OR DEMAND CONTROL VENTILATION.
S. PROVIDE DEFROST CONTROL FOR ENERGY RECOVERY WHEEL.
T. PROVIDE BYPASS DAMPERS AROUND THE WHEEL. SIZE WHEEL FOR DESIGN SUPPLY CFM.
U. PROVIDE HOT GAS REHEAT COIL.

AHU ENERGY RECOVERY DEVICE SCHEDULE (HEAT WHEEL)

MARK	MANUFACTURER	MODEL	SUPPLY (CFM)	EXHAUST (CFM)	SUMMER EXHAUST: EAT (°F DB)	SUMMER EXHAUST: EAT (°F WB)	SUMMER SUPPLY: OA (°F DB)	SUMMER SUPPLY: OA (°F WB)	SUMMER SUPPLY: LAT (°F DB)	SUMMER SUPPLY: LAT (°F WB)	WINTER EXHAUST: EAT (°F DB)	WINTER EXHAUST: EAT (°F WB)	WINTER SUPPLY: OA (°F DB)	WINTER SUPPLY: LAT (°F DB)	WINTER SUPPLY: LAT (°F WB)	ERV NOTES
AHU 1	DAIKIN	DPSH30B	4640	4640	75.0	62.0	100.0	75.0	86.9	69.2	70.0	50.0	0.0	34.6	27.3	
AHU 2	DAIKIN	DPSH30B	1305	1305	75.0	62.0	100.0	75.0	79.4	72.7	70.0	50.0	0.0	55.8	12.3	

DUCT SILENCER SCHEDULE

MARK	SERVICE	AREA (IN X IN)	LENGTH (FT X FT)	CFM	FACE AREA (SF)	NOTES
DS-1E	EF-5	20 X 34	5 X 5	5000	4.7	ALL
DS-1S	AHU 1 SUPPLY	36 X 36	5 X 5	9800	9.0	ALL
DS-1R	AHU 1 RETURN	36 X 36	5 X 5	9800	9.0	ALL
DS-2S	AHU 2 SUPPLY	38 X 38	5 X 5	11350	10.0	ALL
DS-2R	AHU 2 RETURN	40 X 36	5 X 5	11350	10.0	ALL
DS-3S	AHU 3 SUPPLY	34 X 30	5 X 5	7700	7.1	ALL
DS-3R	AHU 3 RETURN	34 X 30	5 X 5	7700	7.1	ALL
DS-4S	AHU 4 SUPPLY	40 X 20	5 X 5	5200	5.6	ALL
DS-5S	AHU 5 SUPPLY	38 X 36	5 X 5	8500	9.5	ALL
DS-5R	AHU 5 RETURN	38 X 36	5 X 5	8500	9.5	ALL
DS-6S-A	AHU 6 SUPPLY	50 X 50	5 X 5	38200	17.4	ALL
DS-6S-B	AHU 6 SUPPLY	50 X 50	5 X 5	38200	17.4	ALL
DS-6R-A	AHU 6 RETURN	50 X 50	5 X 5	38200	17.4	ALL
DS-6R-B	AHU 6 RETURN	50 X 50	5 X 5	38200	17.4	ALL

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NOTES:
A. STATIC PRESSURE DROP SHALL NOT EXCEED SCHEDULED AMOUNT AT SPECIFIED AIRFLOW.
B. DYNAMIC INSERTION LOSS SHALL BE AT AIRFLOW VELOCITY OF 1000 FPM.
C. DUCT SILENCER SHALL BE ELBOW TYPE. LENGTHS LISTED REPRESENT CENTERLINE LENGTH TO EITHER SIDE OF DUCT TURN.

UNIT HEATER SCHEDULE (ELECTRIC)

MARK	MANUFACTURER	AREA SERVED	MODEL	MIN OUT (MBH)	NOM (KW)	V/PH	NOTES
UH 1	MARKEL	VESTIBULE	P3349T	32.8	9.6	460 V / 3PH	ALL
UH 2	MARKEL	VESTIBULE	P3349T	32.8	9.6	460 V / 3PH	ALL

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY.
REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED.
THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:
A. MOUNT [X] FEET ABOVE FINISHED FLOOR WITHOUT OBSTRUCTING AIRFLOW.
B. PROVIDE WITH WALL MOUNTED THERMOSTAT.
C. PROVIDE NECESSARY MOUNTING BRACKET AND ACCESSORIES FOR WALL MOUNTING.
D. DISCONNECT SWITCH PROVIDED BY DIVISION 26 CONTRACTOR.

GREASE SCRUBBER

MARK	AREA SERVED	MANUFACTURER	MODEL	FAN: TYPE	FAN: CFM	FAN: ESP (IN)	FAN: TSP (IN)	FAN: MIN HP	FILTERS: TOTAL APD INITIAL (IN)	FILTERS: TOTAL APD FINAL (IN)	FILTERS: NO OF FILTERS	FILTERS: SIZES	ELECTRICAL: V/PH	ELECTRICAL: MCA	ELECTRICAL: MOCP	ELECTRICAL: DISC TYPE	ELECTRICAL: STARTER TYPE	WEIGHT (LBS)	NOTES
GS 1	KITCHEN 203	CAPTIVEAIRE	PCU-PF-HE-KB-3		5200	0.0	0.0	0.00	0.0	0.0	3	20"X25"X4"	0 V / 1PH	0	0			1000	ALL

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY.
REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED.
THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:
A. TOTAL STATIC PRESSURE IS AN ESTIMATED VALUE BASED ON INFORMATION OF ONE MANUFACTURER OF GREASE SCRUBBER UNIT. ADJUST TOTAL AS REQUIRED BASED ON ACTUAL UNIT AND SPECIFIED EXTERNAL AND FILTER FINAL PD. SPECIFIED FAN TSP INCLUDES EXTERNAL DUCT AND INTERNAL FILTER, COIL AND CASING LOSSES. FILTER LOSS IS AT MAXIMUM 400 FPM.
B. FILTER STAGES SHALL BE AS FOLLOWS:
1ST STAGE: 2" DEEP PLEATED, 40% EFFICIENT
2ND STAGE: 15" DEEP BAG FILTER 95% EFFICIENT
3RD STAGE: 12" DEEP MICROTENIN FILTER, 95% EFFICIENT ON 0.3 MICROMETER PARTICLES
D. PROVIDE UNIT WITH BACK INLET CONNECTION.
E. PROVIDE WITH FRONT OUTLET CONNECTION.
G. UNIT SHALL BE UL LISTED FOR INDOOR INSTALLATION AND SHALL NOT REQUIRE ADDITIONAL FIREPROOFING.
H. DIVISION 26 CONTRACTOR SHALL PROVIDE SMOKE DETECTORS IN SUPPLY AIR DUCTS.
J. DISCONNECTS SHALL BE FURNISHED BY THE MANUFACTURER INTEGRAL TO THE UNIT.
K. STARTERS SHALL BE FURNISHED BY THE MANUFACTURER INTEGRAL TO THE UNIT.
L. PROVIDE SINGLE POINT POWER CONNECTION.
M. PROVIDE WITH SPRING AND NEOPRENE DOUBLE DEFLECTION VIBRATION ISOLATION.
N. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT.
O. PROVIDE FACTORY PRE-PIPED ANSUL FIRE SUPPRESSION PIPING AND NOZZLES FOR FIELD CONNECTION OF ANSUL SYSTEM. CONTRACTOR TO PROVIDE ANSUL CABINET, PULL STATION, AND UNIT FUSIBLE LINK.
P. SELECT UNIT AT AN ELEVATION OF 1296 FEET ABOVE SEA LEVEL.
R. PROVIDE UNIT WITH INTEGRAL AUXILIARY DRAIN.

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KEY PLAN (NTS)

SHEET NAME

MECHANICAL SCHEDULES

PROJECT NUMBER 24531
DOB NUMBER 5050
SCALE
FORMAT ARCH D

SHEET NUMBER **M400**

VARIABLE AIR VOLUME TERMINAL SCHEDULE (ELECTRIC HEAT)

MARK	SERVED FROM	ZONE SERVED	MANUFACTURER	MODEL	INLET SIZE (IN)	PRIMARY CFM	MIN CFM	MAX HEAT CFM	HEATING COIL					V/PH	SOUND POWER		CONTROL TYPE	SENSOR				NOTES
									EAT	LAT	MBH	NOMINAL KW	STEPS		RADIATED	DISCHARGE		TYPE	H	CO2	OCC	
VAV 1.01	AHU 1	BEER & LIQUOR / CHAIR STORAGE	TITUS	DESV	6"	375	135	190	55	90	7.2	2.5	SCR	208/1			DUAL MAX, SINGLE MIN	T1	---	---	---	ALL
VAV 1.02	AHU 1	BAR SUPP	TITUS	DESV	9"	825	165	165	55	85	5.4	2.0	SCR	208/1			SINGLE MAX, SINGLE MIN	T1	---	---	---	ALL
VAV 1.03	AHU 1	ELEVATOR VESTIBULE	TITUS	DESV	5"	100	35	35	55	85	1.2	0.5	SCR	120/1			SINGLE MAX, SINGLE MIN	T2	---	---	---	ALL
VAV 1.04A	AHU 1	LOBBY / BAR	TITUS	DESV	24"x16"	3050	2290	2290	55	85	74.5	22.0	SCR	480/3			SINGLE MAX, SINGLE MIN	T2	H	CO2	---	ALL
VAV 1.04B	AHU 1	LOBBY	TITUS	DESV	16"	2200	1650	1650	55	85	53.8	16.0	SCR	480/3			SINGLE MAX, SINGLE MIN	T2	H	CO2	---	ALL
VAV 1.05	AHU 1	BOX OFFICE	TITUS	DESV	8"	650	130	260	55	85	8.5	2.5	SCR	208/1			DUAL MAX, SINGLE MIN	T1	---	---	---	ALL
VAV 1.06	AHU 1	COAT ROOM	TITUS	DESV	6"	300	60	60	55	85	2.0	1.0	SCR	120/1			SINGLE MAX, SINGLE MIN	T1	---	---	---	ALL
VAV 1.07	AHU 1	WOMENS RESTROOM	TITUS	DESV	10"	1025	205	360	55	85	11.7	3.5	SCR	208/1			DUAL MAX, SINGLE MIN	T2	---	---	---	ALL
VAV 1.08	AHU 1	MERCH	TITUS	DESV	7"	450	90	90	55	85	3.0	1.0	SCR	120/1			SINGLE MAX, SINGLE MIN	T1	---	---	---	ALL
VAV 1.09	AHU 1	MENS RESTROOM	TITUS	DESV	8"	600	120	180	55	85	5.9	2.0	SCR	208/1			DUAL MAX, SINGLE MIN	T2	---	---	---	ALL
VAV 1.10	AHU 1	MEDIC	TITUS	DESV	5"	225	45	45	55	85	1.5	0.5	SCR	120/1			SINGLE MAX, SINGLE MIN	T1	---	---	---	ALL
VAV 2.01	AHU 2	DRESSING ROOM	TITUS	DESV	9"	725	145	185	55	85	6.0	2.0	SCR	208/1			DUAL MAX, SINGLE MIN	T1	H	---	---	ALL
VAV 2.02	AHU 2	DRESSING ROOM	TITUS	DESV	6"	400	100	100	55	85	3.3	1.0	SCR	120/1			SINGLE MAX, SINGLE MIN	T1	H	---	---	ALL
VAV 2.03	AHU 2	CREW LOUNGE	TITUS	DESV	9"	850	300	300	55	85	9.7	3.0	SCR	208/1			SINGLE MAX, SINGLE MIN	T1	---	CO2	---	ALL
VAV 2.04	AHU 2	CORRIDOR	TITUS	DESV	24"x16"	4275	855	1150	55	85	37.5	11.0	SCR	480/3			DUAL MAX, SINGLE MIN	T1	---	---	---	ALL
VAV 2.05	AHU 2	PR OFFICES	TITUS	DESV	5"	200	40	40	55	85	1.4	0.5	SCR	120/1			SINGLE MAX, SINGLE MIN	T1	---	---	---	ALL
VAV 2.06	AHU 2	DRESSSING ROOM	TITUS	DESV	8"	625	125	190	55	85	6.2	2.0	SCR	208/1			DUAL MAX, SINGLE MIN	T1	H	---	---	ALL
VAV 2.07	AHU 2	DRESSING ROOM	TITUS	DESV	8"	600	120	120	55	85	4.0	1.5	SCR	120/1			SINGLE MAX, SINGLE MIN	T1	H	---	---	ALL
VAV 2.08	AHU 2	STAFF CHECK IN / OFFICES	TITUS	DESV	10"	1000	300	300	55	85	9.8	3.0	SCR	208/1			SINGLE MAX, SINGLE MIN	T1	---	---	---	ALL
VAV 2.09	AHU 2	OFFICE SUITES	TITUS	DESV	16"	2675	535	535	55	85	17.5	5.5	SCR	208/3			SINGLE MAX, SINGLE MIN	T1	H	---	---	ALL

ZONE CONTROL SENSOR ABBREVIATIONS AND NOTES:
T1 - TEMPERATURE SENSOR WITH ADJUSTABILITY AND OCCUPANCY OVERRIDE, AND OVERRIDES AT BAS.
T2 - TEMPERATURE SENSOR WITH BLANK FACE.
H - SPACE HUMIDITY SENSOR.
CO2 - CARBON DIOXIDE SENSOR.
OCC - OCCUPANCY SENSOR.
IF MULTIPLE SENSOR TYPES ARE SHOWN, A SINGLE COMBINED SENSOR SHALL BE PROVIDED FOR THE PIECE OF EQUIPMENT. UNLESS OTHERWISE NOTED ON PLAN, SENSORS TO BE LOCATED ADJACENT TO LIGHTING CONTROLS.

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:
A. INSTALL FLEXIBLE DUCT CONNECTOR AT INLET CONNECTION.
B. PROVIDE INTEGRAL DISCONNECT SWITCH.
C. PROVIDE SINGLE POINT POWER WITH CONTROL POWER (CP) TRANSFORMER FACTORY INSTALLED. COORDINATE PRIMARY POWER WITH ELECTRICAL DRAWINGS.
D. BOX NOT TO EXCEED SCHEDULED DISCHARGE OR RADIATED SOUND DB USING 0.5 INCH W.G. INLET PRESSURE IN THE 3RD OCTAVE BAND.
E. PROVIDE FACTORY-INSTALLED, PRESSURE INDEPENDENT, DDC CONTROL PACKAGE.
F. PROVIDE BOX WITH EITHER RIGHT HAND OR LEFT HAND CONFIGURATION AS SHOWN ON DRAWINGS.
G. INLET SIZE SHOWN IS THE MINIMUM ALLOWABLE INLET SIZE. NO SMALLER SIZES SHALL BE ACCEPTED.
H. PROVIDE HEATER TO MEET OR EXCEED SCHEDULED MINIMUM MBH OUTPUT. NOMINAL KW IS BASED ON LISTED MANUFACTURER'S STANDARD PRODUCT. COORDINATE EQUIPMENT POWER SUPPLY WITH ELECTRICAL CONTRACTOR IF DIFFERENT FROM THAT SCHEDULED.
J. VAV BOXES SHALL BE SIZED TO MEET THE SCHEDULED VALUES BASED ON THE FOLLOWING PRIORITIES: 1 - HEATING COIL CAPACITY, 2 - LEAVING AIR TEMPERATURE.
L. BOX SELECTED AT 1296 FEET ABOVE SEA LEVEL.

GRILLE, REGISTER AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	SERVICE	MODEL	CONSTRUCTION	FACE TYPE	MOUNTING	FACE SIZE (IN)	MAX NC	MAX PRESS DROP (IN W.C.)	NOTES
EPB1	TITUS	EXHAUST	FBP	STEEL	PLENUM BOX	LINEAR SLOT	2' NOMINAL	25	0.10	ALL
ERG1	TITUS	REFER TO PLANS	350FL	ALUMINUM	LOUVERED	DUCT/WALL	REFER TO PLANS	25	0.10	ALL
ERG3	TITUS	REFER TO PLANS	30RL	STEEL	LOUVERED	DUCT/WALL	REFER TO PLANS	25	0.10	ALL
LS1-HT	TITUS	REFER TO PLANS	FL-10-HT	ALUMINUM	LINEAR SLOT	CEILING/WALL	1" LINEAR SLOT	25	0.10	ALL
LS1-JT	TITUS	REFER TO PLANS	FL-10-JT	ALUMINUM	LINEAR SLOT	CEILING/WALL	1" LINEAR SLOT	25	0.10	ALL
LS2-HT	TITUS	REFER TO PLANS	FL-20-HT	ALUMINUM	LINEAR SLOT	CEILING/WALL	2" LINEAR SLOT	25	0.10	ALL
LS2-JT	TITUS	REFER TO PLANS	FL-20-JT	ALUMINUM	LINEAR SLOT	CEILING/WALL	2" LINEAR SLOT	25	0.10	ALL
CRG1	TITUS	RETURN	PAR-AA	ALUMINUM	PERFORATED	CEILING	12"x12"	25	0.10	ALL
CRG5	TITUS	RETURN	PAR-AA	ALUMINUM	LOUVERED	CEILING	24"x12"	25	0.10	ALL
RPB1	TITUS	RETURN	FBP	STEEL	PLENUM BOX	LINEAR SLOT	2' NOMINAL	25	0.10	ALL
CSD1	TITUS	SUPPLY	PAR-AA	ALUMINUM	PERFORATED	CEILING	12"x12"	25	0.10	ALL
CSD5	TITUS	SUPPLY	PAR	STEEL	PERFORATED	CEILING	24"x24"	25	0.10	ALL
CSD9	TITUS	SUPPLY	R-OMNI	STEEL	PLAQUE	CEILING/WALL	31 1/8" DIAMETER	25	0.10	ALL
SG1	TITUS	SUPPLY	DL	ALUMINUM	LOUVERED	DUCT	REFER TO PLANS	25	0.10	ALL
SG3	TITUS	SUPPLY	DL	ALUMINUM	LOUVERED	DUCT	REFER TO PLANS	25	0.10	ALL
SG 4	TITUS	SUPPLY	TND-AA	ALUMINUM	NOZZLE	WALL	REFER TO PLANS	25	0.15	ALL
SPB2	TITUS	SUPPLY	FBP	STEEL	PLENUM BOX	LINEAR SLOT	4' NOMINAL	25	0.10	ALL
SPB3	TITUS	SUPPLY	FBP	STEEL	PLENUM BOX	LINEAR SLOT	5' NOMINAL	25	0.10	ALL

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LEGEND:
CEG - CEILING EXHAUST GRILLE
CRG - CEILING RETURN/TRANSFER GRILLE
CSD - CEILING SUPPLY DIFFUSER
ERG - DUCT/WALL EXHAUST/RETURN
/TRANSFER GRILLE
SG - DUCT/WALL SUPPLY GRILLE
LS - LINEAR SLOT
(S/R/E)PB - PLENUM BOX
(SUPPLY/RETURN/EXHAUST)

GENERAL NOTES:

A. NECK SIZE SHOWN ON DRAWINGS. PROVIDE BRANCH DUCT TO MATCH NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.
B. FRAME TYPE TO MATCH CEILING/WALL CONSTRUCTION.
C. PROVIDE DIFFUSERS, LINEAR SLOTS, AND GRILLES WITH NO EXPOSED MOUNTING SCREWS.
D. PAINT ALL INTERIOR SURFACES OF SLOTS, GRILLES AND PLENUMS FLAT BLACK.
E. COORDINATE INSTALLATION AND DIFFUSER TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE REMOTE CABLE OPERATED DAMPER FOR DIFFUSERS INSTALLED IN INACCESSIBLE CEILINGS. REFER TO SPECIFICATIONS.

NOTES SPECIFIC TO CEILING MOUNT DEVICES:
A. SUPPLY DIFFUSERS SHALL HAVE 4-WAY THROW PATTERN UNLESS OTHERWISE INDICATED BY FLOW ARROWS ON DRAWINGS.
B. BAKED ENAMEL FINISH TO MATCH CEILING COLOR. DIFFUSER COLOR SHALL BE A STANDARD CATALOG COLOR UNLESS OTHERWISE NOTED ON PLAN. COORDINATE AIR DEVICE COLOR WITH ARCHITECTURAL PLANS AND SUBMIT PROPOSED COLORS FOR REVIEW BY ENGINEER AND ARCHITECT.
C. PROVIDE WITH RAPID MOUNT FRAMING OPTION FOR LAY-IN TYPE DIFFUSERS INSTALLED IN A SHEETROCK OR OTHERWISE INACCESSIBLE CEILING.

NOTES SPECIFIC TO WALL/DUCT MOUNT DEVICES:
A. FRONT BLADES PARALLEL TO LONG DIMENSION.
B. SUPPLY GRILLES SHALL HAVE ADJUSTABLE DOUBLE DEFLECTION BARS.
C. PROVIDE OPPOSED BLADE DAMPER ADJUSTABLE FROM FACE OF DEVICE WHERE INDICATED ON PLAN. DAMPERS SHOWN OUTSIDE OF DEVICES ARE INTENDED TO BE INSTALLED NOT INTEGRAL TO DEVICE.

NOTES SPECIFIC TO LINEAR SLOT & PLENUM DIFFUSERS:
A. LINEAR SLOTS DEVICES SHALL BE PROVIDED WITH LIGHT SHIELDS ON UNUSED PORTION OF SLOT, NOT PROVIDED WITH A PLENUM BOX, PER DETAILS UNLESS OTHERWISE NOTED. PROVIDE MANUFACTURER'S BLANK-OFF PLATES WHERE NOTED ON PLAN.
B. SUPPLY PLENUM MAY BE FIELD FABRICATED BASED ON PROVIDED DETAILS, OR PURCHASED FROM THE SLOT DIFFUSER MANUFACTURER. PROVIDE 1/4" CLOSED CELL INSULATION ON THE INTERIOR OF THE SUPPLY PLENUM.
C. HIGH THROW LINEAR SLOTS MOUNTED IN VERTCIAL DIMENSION TO HAVE DEFLECTORS POINTED DOWN UNLESS NOTED OTHERWISE.
D. PROVIDE BORDER TYPE AS FOLLOWS:
   1) BORDER TYPE EQUAL TO TITUS 11 FOR ALL LAY-IN CEILINGS UNLESS NOTED ON PLANS. PROVIDE SUPPORT DEVICES AS NECESSARY TO SUPPORT SLOT FROM STRUCTURE AND INSTALL WITHOUT OVERLAPING T-BAR GRID.
   2) BORDER TYPE EQUAL TO TITUS 66 FOR ALL SHEETROCK CEILINGS AND WALLS UNLESS NOTED ON PLANS.
   3) BORDER TYPE EQUAL TO TITUS 22 FOR SHEETROCK CEILINGS AND WALLS WHERE NOTED ON PLANS.
E. COORDINATE PLENUM BOX WIDTH WITH SLOT WIDTH.

FAN SCHEDULE

MARK	SERVICE DESCRIPTION	AREA SERVED	LOCATION	MANUFACTURER	MODEL	MOUNTING	AIRFLOW (CFM)	ESP (IN)	BHP	NOM HP	RPM	DRIVE (BELT/DIRECT)	VFD (Y/N)	ELECTRICAL					CONTROL METHOD	WEIGHT (LBS)	NOTES
							MAX							V/PH	MCA	MOCP	DISCONNECT	STANDBY POWER			
DWF 1	DISHWASHER EXHAUST	KITCHEN	MECH PENTHOUSE	GREENHECK	BSQ-90	INLINE	500	0.50	0.15	0.25	1373	DIRECT	No	115/1	[redacted]		NON-FUSED	No	DISHWASHER INTERLOCK	85	ALL
DEF 1	DRYER EXHAUST	W.D.	CREW LOUNGE	ENERVEX	BEF225X	BOX VENTILATOR	500	0.50	0.50	1.10	2600	DIRECT	No	115/1	7.8	15	NON-FUSED	No	DRYER CONTROLLER	60	ALL
EF 1	EXHAUST	LVL1 RESTROOMS	MECH PENTHOUSE	GREENHECK	SQ-160-VG	INLINE	3375	1.00	1.16	2.00	1483	DIRECT	No	208/1	15.6	25	NON-FUSED	No	BAS SCHEDULE	160	ALL
EF 2	EXHAUST	BOH	MECH PENTHOUSE	GREENHECK	SQ-120-VG	INLINE	1100	0.50	0.19	0.50	1297	DIRECT	No	115/1	8.2	15	NON-FUSED	No	BAS SCHEDULE	65	ALL
EF 3	EXHAUST	LVL2 RESTROOMS	MECH PENTHOUSE	GREENHECK	SQ-120-VG	INLINE	825	0.50	0.13	0.50	1129	DIRECT	No	208/1	5	15	NON-FUSED	No	BAS SCHEDULE	65	ALL
EF 4	EXHAUST	KITCHEN	CORRIDOR	GREENHECK	SQ-16-M2-VG	INLINE	4000	0.50	0.65	2.00	1351	DIRECT	No	208/1	15.6	25	NON-FUSED	No	PRESSURE CONTROL	155	ALL
EF 6	EXHAUST	UPS	CREW LOUNGE	GREENHECK	SQ-97-VG	INLINE	150	0.50	0.09	0.25	1419	DIRECT	No	115/1	4.8	15	NON-FUSED	No	CONTINUOUS	50	ALL
EF 5	STAGE EXHAUST	STAGE	MECH PENTHOUSE	GREENHECK	AX-54-160	INLINE	5000	1.00	1.31	1.50	2042	DIRECT	Yes	208/3	8.2	15	NON-FUSED	No	BAS SCHEDULE	165	ALL

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

LEGEND:
EF - GENERAL EXHAUST FAN
SF - GENERAL SUPPLY FAN
CF - CIRCULATION FAN
REF - RELIEF FAN
DEF - DRYER EXHAUST FAN
TF - TRANSFER FAN
RF - RETURN FAN
GEF - GREASE EXHAUST FAN
DWF - DISHWASHER EXHAUST FAN

GENERAL NOTES:

A. MOUNT ALL FANS AS FOLLOWS. REFER TO VIBRATION ISOLATION SPECIFICATIONS AS NEEDED:
   INLINE/CEILING: PROVIDE ALL-THREAD HANGING RODS.
   SIDEWALL: PROVIDE MOUNTING BRACKETS AND ACCESSORIES REQUIRED FOR WALL MOUNTING.
B. COORDINATE WITH CONTROLS CONTRACTOR TO ACHIEVE SPECIFIED CONTROL METHOD. REFER TO CONTROLS DRAWINGS FOR ADDITIONAL INFORMATION.
C. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE BHP.
D. PROVIDE THE FOLLOWING ACCESSORIES MATCHING FANS DESIGNATION FOR VFD:
   FOR FANS WITH VFD: FURNISH VFD WITH INTEGRAL DISCONNECTING MEANS. DIVISION 26 TO INSTALL AND FIELD WIRE. PROVIDE SHAFT GROUNDING SYSTEM ON MOTOR, REFER TO MOTOR SPECIFICATION FOR MORE INFORMATION.
   FOR FANS WITH NO VFD: WITH MANUFACTURER'S ELECTRONICALLY COMMUTATED (EC) MOTOR WITH FACTORY INTEGRAL DISCONNECT. DISCONNECTS FOR FANS MOUNTED OUTDOORS SHALL BE NEMA 3R. PROVIDE EITHER SPEED CONTROLLER OR MANUFACTURER'S ADVANCED EC MOTOR CONTROLLER WITH BAS INTERFACE TO ACHIEVE CONTROL INTENT. IN ALL OTHER INSTANCES COORDINATE WITH DIVISION 26.
E. PROVIDE BIRDSCREEN AND MOTORIZED DAMPER INTERLOCKED WITH FAN OPERATION UNLESS OTHERWISE NOTED. MOTORIZED DAMPER PRESSURE DROP SHALL NOT EXCEED 0.15 IN W.G. COORDINATE DAMPER POWER WITH DIVISION 26 CONTRACTOR. MOTORIZED DAMPER TO BE MOUNTED WITHIN CURBS FOR CURB MOUNTED FANS. FOR ALL OTHER FANS, MOTORIZED DAMPER TO BE LOCATED AT EXTERIOR PENETRATION (ROOF/WALL) IN ACCESSIBLE LOCATION UNLESS OTHERWISE INDICATED ON DRAWINGS.

NOTES SPECIFIC TO DRYER SUPPLY/EXHAUST:
A. MECHANICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND OWNER TO ENSURE PROVIDED LAUNDRY DRYERS ARE CAPABLE OF DRYER EXHAUST SYSTEM CONTROL PANEL INTERLOCK PRIOR TO PURCHASE OF DRYERS. DRYER WITHOUT INTERLOCK CAPABILITY TO BE PROVIDED WITH DRY CONTACTS NECESSARY TO ACHIEVE STATUS INPUT TO FAN CONTROLLER AND TO ALLOW FOR FAN CONTROLLER SHUTDOWN OF DRYER OPERATION.
B. PROVIDE ALL NECESSARY COMPONENTS INCLUDING SYSTEM CONTROL PANEL, DRYER INTERLOCKS, BI-DIRECTIONAL PRESSURE TRANSDUCER, AND MANUFACTURER'S VARIABLE SPEED DRIVE. REFER TO CONTROL DIAGRAMS FOR COMPLETE SYSTEM OPERATION.
C. PROVIDE MANUFACTURER'S CONTROLLER EQUAL TO ENERVEX EBC 31 FOR SYSTEM OPERATION. LOCATE CONTROLLER ADJACENT TO EQUIPMENT.
D. FAN SHALL BE OF ALUMINUM OR STAINLESS STEEL CONSTRUCTION AND UL LISTED FOR DRYER SERVICE.
E. DO NOT PROVIDE BIRDSCREEN OR INTEGRAL DAMPER.
F. VERIFY AIRFLOW RATE WITH ACTUAL REQUIRED AIRFLOW RATES OF PROCURED EQUIPMENT SERVED PRIOR TO ORDERING.
G. PROVIDE SYSTEM SELECTION BASED ON FIELD COORDINATED INSTALLATION AND PROPOSED ROUTING OF DUCTWORK.

NOTES SPECIFIC TO DISHWASHER EXHAUST:
A. FAN SHALL BE ALL ALUMINUM CONSTRUCTION WITH MOTOR LOCATED OUT OF AIRSTREAM.
B. INTERLOCK FAN OPERATION WITH ASSOCIATED DISHWASHER.
C. PROVIDE WITH ALUMINUM MOTORIZED DAMPER AT EXTERIOR PENETRATION.

NOTES SPECIFIC TO GREASE EXHAUST:
A. MOUNT FANS AS FOLLOWS:
   UPBLAST: PROVIDE GREASE EXHAUST FAN WITH ROOF CURB EXTENSION FOR 40 INCH MINIMUM DISCHARGE HEIGHT ABOVE ROOF SURFACE OR AT ELEVATION HIGHER THAN ADJACENT BUILDING STRUCTURE WITHIN 10 FEET WHICHEVER IS GREATER.
   UTILITY SET: SEE DETAIL FOR DUCT EXTENSION.
B. PROVIDE GREASE TRAP WITH ABSORBANT MATERIAL AND DRAIN CONNECTION, HINGE KIT, ACCESS PORT FOR CLEANING FAN BLADES, AND INTEGRAL MOTOR OVERLOAD PROTECTION.
C. COORDINATE INTERFACE OF VFD WITH KITCHEN HOOD CONTROLLER WITH FOOD SERVICE DRAWINGS AND DIVISION 26 CONTRACTOR. **[VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT SWITCH TO BE FURNISHED BY KITCHEN HOOD MANUFACTURER FOR INSTALLATION IN KITCHEN HOOD CABINET. COORDINATE FAN REQUIREMENTS WITH FOODSERVICE CONSULTANT. DIVISION 26 CONTRACTOR SHALL PROVIDE WIRING BETWEEN FAN(S) AND ASSOCIATED VFD AND PROVIDE LOCAL DISCONNECT SWITCH AT EXHAUST FAN.]**
D. FAN SHALL BE UL LISTED FOR GREASE EXHAUST APPLICATIONS.
E. DO NOT PROVIDE DAMPER FOR GREASE EXHAUST FANS.

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KEY PLAN (NTS)

SHEET NAME

MECHANICAL SCHEDULES

PROJECT NUMBER 24531
DOB NUMBER 5050
SCALE
FORMAT ARCH D

SHEET NUMBER **M401**

VRF FAN COIL UNIT SCHEDULE

MARK	SERVICE	LOCATION	MANUFACTURER	MODEL	TYPE	MOUNTING	COOLING COIL							TOTAL HTG CAP (MBH)	HEAT PUMP HEATING COIL				MIN OA (CFM)	ELECTRICAL				WEIGHT (LBS)	CONTROL METHOD 1-4	NOTES
							TH (MBH)	SH (MBH)	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	LAT (°F WB)	REFR TYPE	MIN EFF (SEER)	MIN OUT (MBH)	EAT (°F DB)	LAT (°F DB)	MIN EFF (COP)		V/PH	MCA	MOCP	DISC TYPE			
VFCU 1.1	CU 1	ELEC 109			HEAT RECOVERY	WALL	24.0	24.0	80.0	66.6	55	54	R32		24.0		65	90		0	0 V / 1PH	0	0		0		
VFCU 1.2	CU 2	IDF 144			HEAT PUMP	WALL	24.0	24.0	75.0	62.5	55	54	R32							0	0 V / 1PH	0	0		0		
VFCU 1.3	CU 2	MDF 137			HEAT PUMP	SUSPENDED	48.0	48.0	75.0	62.5	55	54	R32							0	0 V / 1PH	0	0		0		
VFCU 1.4	CU 1	UPS 130			HEAT RECOVERY	WALL	24.0	24.0	80.0	66.6	55	54	R32		24.0		65	90		0	0 V / 1PH	0	0		0		
VFCU 1.5A	CU 1	MAIN ELEC 129			HEAT RECOVERY	SUSPENDED	48.0	48.0	80.0	66.6	55	54	R32		48.0		65	90		0	0 V / 1PH	0	0		0		
VFCU 1.5B	CU 1	MAIN ELEC 129			HEAT RECOVERY	SUSPENDED	48.0	48.0	80.0	66.6	55	54	R32		48.0		65	90		0	0 V / 1PH	0	0		0		
VFCU 1.6	CU 2	IDF 218			HEAT PUMP	WALL	24.0	24.0	75.0	62.5	55	54	R32							0	0 V / 1PH	0	0		0		
VFCU 1.7	CU 1	ELEC 204			HEAT RECOVERY	WALL	24.0	24.0	80.0	66.6	55	54	R32		24.0		65	90		0	0 V / 1PH	0	0		0		

VRF CONDENSING UNIT SCHEDULE

MARK	SERVICE	MANUFACTURER	MODEL	CONFIGURATION	REFR TYPE	COOLING CAPACITY				HEATING CAPACITY				OUTDOOR MODULE 1			DISC TYPE	WEIGHT (LBS)	NOTES
						TOTAL (MBH)	MIN EFF EER	MIN EFF SEER	MIN EFF IEER	HEAT PUMP (MBH)	AMBIENT (°F DB)	MIN EFF COP 47°F	MIN EFF HSPF	MCA	MOCP	V/PH			
CU 1	VFCU 1.1, 1.4, 1.5A/B, 1.7			HEAT RECOVERY	R32	168.0		0		168.0	0	0		0	0	0 V / 1PH		0	
CU 2	VFCU 1.2, 1.3, 1.6			HEAT PUMP	R32	96.0		0	0					0	0	0 V / 1PH		0	

VRF BRANCH SELECTOR BOX SCHEDULE

MARK	# PORTS	MANUFACTURER	MODEL	SERVICE	ELECTRICAL			NOTES
					V/PH	MCA	MOCP	
BS 1				CU 1	208 V / 1PH	0.0	0	

NOTES:
A. EQUIPMENT COMPONENTS SHALL BE BY THE SAME MANUFACTURER.
B. DISCONNECT SWITCH PROVIDED BY DIVISION 26 CONTRACTOR.
C. PROVIDE WITH ALL-THREAD HANGING RODS.
D. MODEL NUMBER IS REPRESENTATIVE ONLY. FINAL BRANCH SELECTOR SIZE SHALL BE DETERMINED BY VRF MANUFACTURER'S CALCULATIONS.
E. PROVIDE SHUTOFF VALVES ON EACH OUTLET PORT OF BRANCH SELECTOR BOX

LOUVER SCHEDULE

MARK	AREA SERVED	SERVICE	MANUFACTURER	MODEL	SIZE (W" x H")	CFM	MIN FREE AREA (SF)	MAX VEL (FPM)	MAX APD (IN W.C.)	NOTES
LV 1	UPS	EXHAUST			12" x 12"	150	0.20	750	0.05	
LV 2	DRYER	EXHAUST			24" x 12"	500	0.70	710	0.05	
LV 3	BOH	EXHAUST			44" x 20"	1100	1.60	690	0.05	

BENTONVILLE BALLROOM
SE E STREET & SE 8TH STREET
BENTONVILLE, AR
72712

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KEY PLAN (NTS)

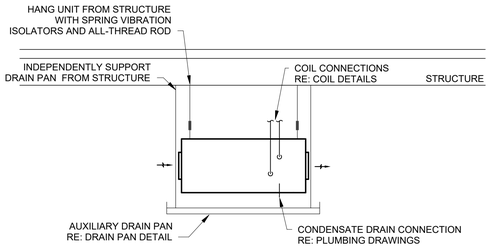
SHEET NAME

MECHANICAL SCHEDULES

PROJECT NUMBER **24531**
DOB NUMBER **5050**
SCALE
FORMAT **ARCH D**

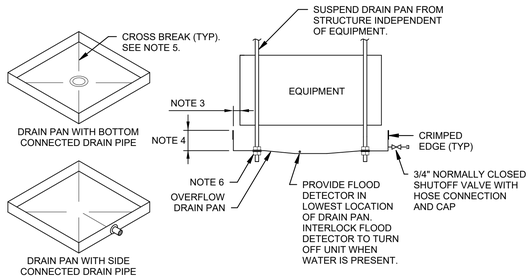
SHEET NUMBER **M402**

DAVID S. WOLFORD
1/22/2026 12:11:54 PM



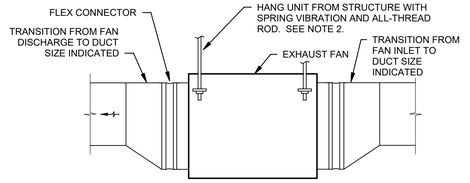
NOTES:
1. ARRANGEMENT SHOWN IS SCHEMATIC, ADJUST TO SUIT FIELD CONDITIONS AND MEET LOCAL CODE REQUIREMENTS.

1 HORIZONTAL HVAC UNIT DETAIL
NTS



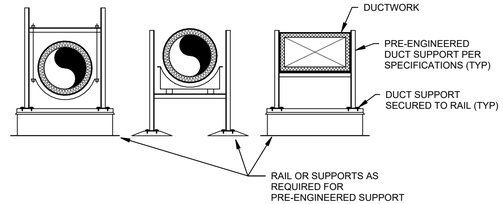
NOTES:
1. SOLDER ALL JOINTS TO MAKE DRAIN PAN LEAK TIGHT.
2. FABRICATE DRAIN PAN FROM 20 GAUGE GALVANIZED SHEET METAL.
3. DRAIN PAN SHALL EXTEND MINIMUM 3" BEYOND EQUIPMENT ON ALL SIDES.
4. HEIGHT OF DRAIN PAN TO BE MINIMUM 1/2" GREATER THAN DIAMETER OF SIDE-CONNECTED DRAIN PIPEFLANGE OR 1-1/2". WHICHEVER IS GREATER.
5. CROSS BREAK BOTTOM OF SHEET METAL DRAIN PAN TO PROVIDE SLOPED DRAINAGE TO OUTLET.
6. SEAL DRAIN PAN WITH NEOPRENE WASHERS AT SUPPORT RODS.

2 CONDENSATE OVERFLOW DRAIN PAN DETAIL
NTS



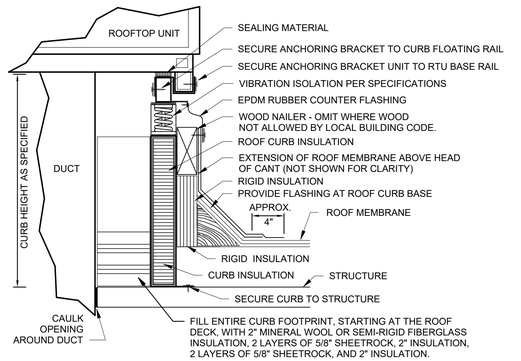
NOTES:
1. ARRANGEMENT SHOWN IS SCHEMATIC, ADJUST TO SUIT FIELD CONDITIONS AND MEET LOCAL CODE REQUIREMENTS.
2. FOR FANS 1 HP AND LESS, PROVIDE NEOPRENE RUBBER MOUNT HANGER (NR). FOR FANS LARGER THAN 1 HP, PROVIDE SPRING VIBRATION ISOLATION HANGER (SPNH).

3 IN-LINE FAN DETAIL
NTS



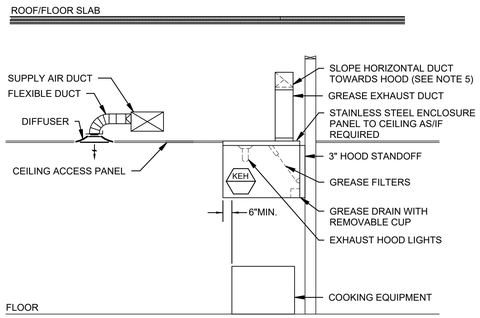
NOTES:
1. DUCT SUPPORTS SHALL BE PRE-ENGINEERED SUPPORT PRODUCT BY APPROVED MANUFACTURER. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR DUCT SUPPORTS, ANCHORING, AND SEISMIC/WIND RESISTANCE.
2. DUCTWORK SHALL REST ON OR BE ATTACHED TO SUPPORTS AS REQUIRED BY INSTALLATION REQUIREMENTS PER MANUFACTURER.

4 ROOF MOUNTED DUCT SUPPORT DETAIL
NTS



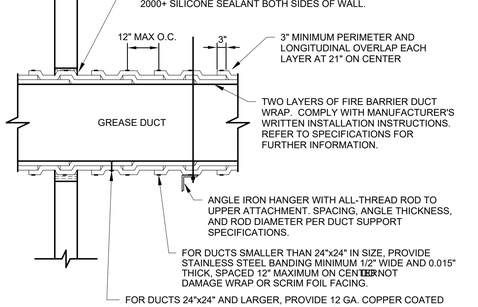
NOTES:
1. CUT METAL DECKING TO ALLOW CURB INSTALLATION ON STEEL FRAMING. AFTER CURB IS SET IN PLACE, TRIM REMAINING METAL DECKING AND INSTALL WITHIN CURB. TACK WELD DECKING TO SUPPORT STEEL. DO NOT WELD INTERIOR DECKING TO ROOF CURB. PROVIDE ADDITIONAL CROSS FRAMING TO SUPPORT INTERIOR DECKING AND FILL MATERIAL AS REQUIRED.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR ROOF CURBS, ANCHORING AND SEISMIC/WIND RESISTANCE.

5 VIBRATION ISOLATION ROOF CURB DETAIL
NTS



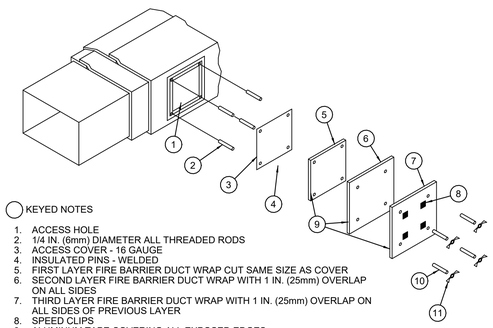
NOTES:
1. SUBMIT SHOP DRAWINGS OF ALL HOOD SYSTEMS TO CITY FOR APPROVAL PRIOR TO INSTALLATION.
2. TOTAL HOOD SYSTEM TO BE IN COMPLETE CONFORMANCE WITH NFPA, AND ALL LOCAL CODES AND REGULATIONS.
3. COORDINATE ALL FIRE PROTECTION SYSTEMS WITH FIRE PROTECTION CONTRACTOR WHO SHALL ALSO BE RESPONSIBLE FOR ALL PERMITS AND TESTING REQUIRED.
4. PROVIDE WRAP SYSTEM WHERE APPROVED BY LOCAL CODES IN LIEU OF RATED ENCLOSURE
5. PROVIDE ACCESS PANELS AS REQUIRED BY LOCAL CODE AND PER PLAN.
6. HOODS SHALL EXTEND MINIMUM 6" BEYOND ALL OPEN SIDES AND FRONT EDGE OF FOOD COOKING EQUIPMENT BEING SERVED.

6 KITCHEN EXHAUST HOOD ELEVATION DETAIL
NTS



NOTES:
1. INSTALL GREASE EXHAUST AND FIRE RATED DUCT WRAP IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED INSTRUCTIONS AND UL LISTED INSTALLATION DETAILS. TECHNIQUES THAT DIFFER FROM THE ABOVE METHOD ARE ACCEPTABLE IF THEY ARE UL TESTED AND APPROVED.

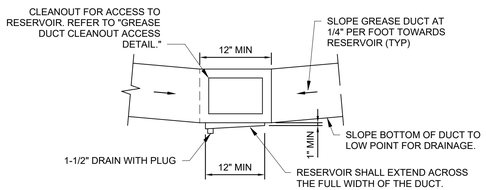
7 GREASE DUCT FIRE WRAP INSULATION INSTALLATION DETAIL
NTS



KEYED NOTES
1. ACCESS HOLE
2. 1/4 IN. (6mm) DIAMETER ALL THREADED RODS
3. ACCESS COVER - 16 GAUGE
4. INSULATED PINS - WELDED
5. FIRST LAYER FIRE BARRIER DUCT WRAP CUT SAME SIZE AS COVER
6. SECOND LAYER FIRE BARRIER DUCT WRAP WITH 1 IN. (25mm) OVERLAP ON ALL SIDES
7. THIRD LAYER FIRE BARRIER DUCT WRAP WITH 1 IN. (25mm) OVERLAP ON ALL SIDES OF PREVIOUS LAYER
8. SPEED CLIPS
9. ALUMINUM TAPE COVERING ALL EXPOSED EDGES
10. SPOOL PIECES FOR THREADED RODS
11. 1/4 IN. (6mm) DIAMETER WING NUTS

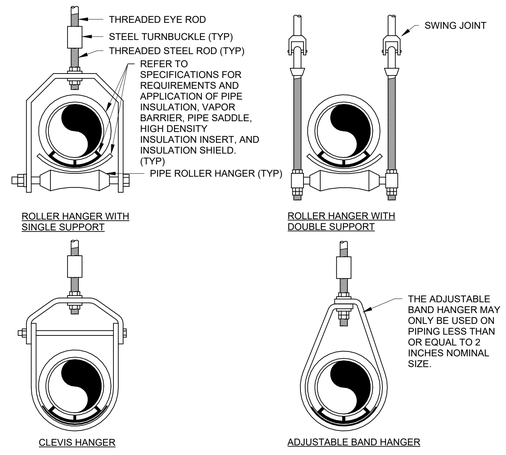
NOTES:
1. FOR REFERENCE ONLY. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
2. AT CONTRACTOR'S OPTION, A LISTED UL 1978 GREASE ACCESS DOOR PRODUCT MAY BE SUBSTITUTED FOR THE ACCESS DOOR PICTURED IN THIS DETAIL. DOOR SHALL BE RATED FOR UP TO 2,300F AND MEET NFPA96 STANDARDS. BOLTS SHALL BE LONG ENOUGH FOR DUCT WRAP SYSTEM (WHEN USED). INSTALL IN ACCORDANCE WITH MANUFACTURER'S LITERATURE.

8 GREASE DUCT CLEANOUT ACCESS DOOR DETAIL
NTS

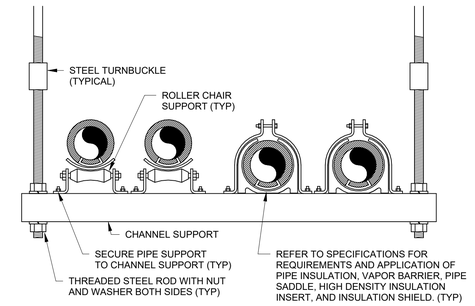


NOTES:
1. INSTALL GREASE DUCT RESERVOIR IN AN ACCESSIBLE LOCATION.

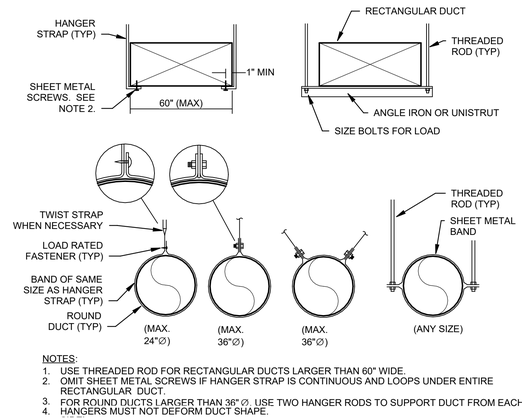
9 GREASE DUCT RESERVOIR DETAIL
NTS



10 PIPE HANGER DETAILS
NTS



11 MULTIPLE PIPE TRAPEZE HANGER DETAIL
NTS



NOTES:
1. USE THREADED ROD FOR RECTANGULAR DUCTS LARGER THAN 60" WIDE.
2. OMIT SHEET METAL SCREWS IF HANGER STRAP IS CONTINUOUS AND LOOPS UNDER ENTIRE RECTANGULAR DUCT.
3. FOR ROUND DUCTS LARGER THAN 36" ∅, USE TWO HANGER RODS TO SUPPORT DUCT FROM EACH
4. HANGERS MUST NOT DEFORM DUCT SHAPE.

12 DUCT HANGER LOWER ATTACHMENT DETAILS
NTS

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12/22/2026 12:11:56 PM

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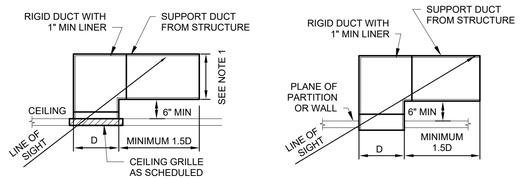
KEY PLAN (NTS)

SHEET NAME

MECHANICAL DETAILS

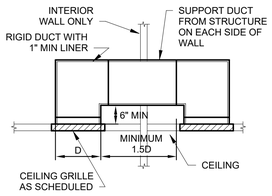
PROJECT NUMBER **24531**
DOB NUMBER **5050**
SCALE **12" = 1'-0"**
FORMAT **ARCH D**

SHEET NUMBER **M500**

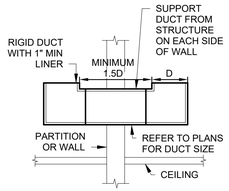


CEILING RETURN GRILLE BOOT

L-SHAPED AIR DUCT (PLAN VIEW)



CEILING TO CEILING SECTION

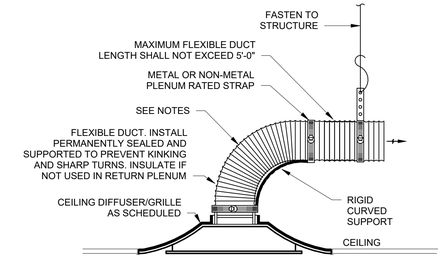


U-SHAPED AIR DUCT SECTION

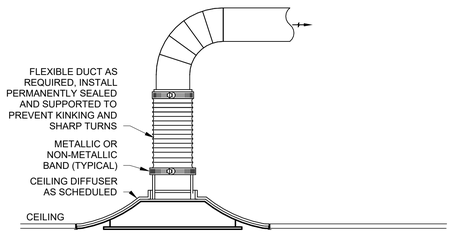
NOTES:

1. REFER TO FLOOR PLAN FOR OUTLET DEPTH. WHEN NO DEPTH IS SHOWN, MINIMUM DEPTH SHALL BE AS REQUIRED TO LIMIT AIR VELOCITY TO 500 FPM WITH A MINIMUM SIZE OF 0.5D.

1 RETURN TRANSFER AIR DUCT DETAILS
NTS



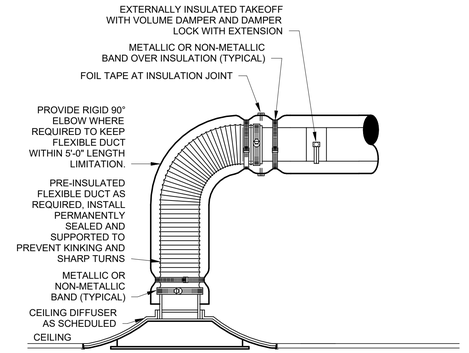
2 RETURN AIR BOOT DETAIL
NTS



NOTES:

1. MAXIMUM FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 2'-0".

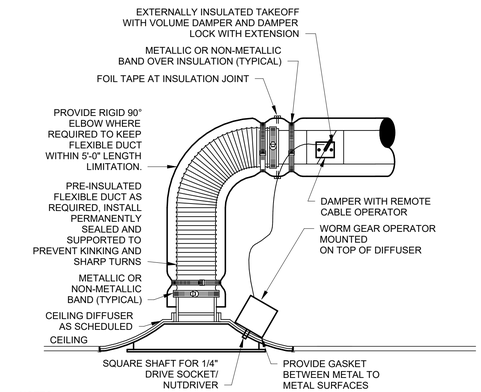
3 FLEXIBLE EXHAUST AIR GRILLE DETAIL
NTS



NOTES:

1. FLEXIBLE DUCT LENGTH MAY NOT EXCEED 5'-0". EXTEND RIGID DUCT AS REQUIRED.
2. REFER TO SPECIFICATIONS FOR FLEXIBLE DUCTWORK INSTALLATION REQUIREMENTS.

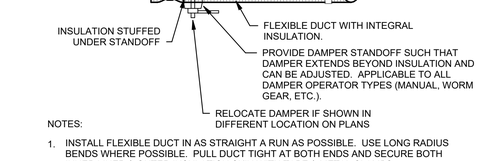
4 LAY-IN CEILING DIFFUSER DETAIL
NTS



NOTES:

1. FLEXIBLE DUCT LENGTH MAY NOT EXCEED 5'-0". EXTEND RIGID DUCT AS REQUIRED.
2. REFER TO SPECIFICATIONS FOR FLEXIBLE DUCTWORK INSTALLATION REQUIREMENTS.

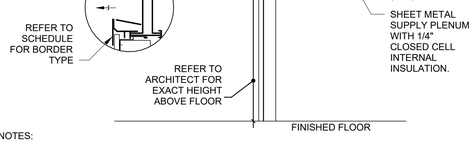
5 CEILING DIFFUSER DETAIL
NTS



NOTES:

1. INSTALL FLEXIBLE DUCT IN AS STRAIGHT A RUN AS POSSIBLE. USE LONG RADIUS BENDS WHERE POSSIBLE. PULL DUCT TIGHT AT BOTH ENDS AND SECURE BOTH INNER LINER & OUTER INSULATION SKIN WITH TAPE & METAL CLAMPS.
2. EXTEND DAMPER ROD TO ACCOMMODATE INSULATION IF APPLICABLE. PULL ROD END TO EDGE OF DUCTWORK AS REQUIRED AND SEAL TO MAINTAIN VAPOR BARRIER.
3. INSTALL LOCKING QUADRANT TO HANDLE ON BOTTOM OF DUCT FOR EASE OF SERVICE.
4. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH AND SHALL HAVE NO MORE THAN ONE 90 DEGREE ELBOW.
5. DUCT SHALL EXTEND STRAIGHT FOR 6" FROM A CONNECTION BEFORE BENDING.

6 DAMPER AND FLEX DUCT CONNECTION DETAIL
NTS



NOTES:

1. EXTEND HARD METAL DUCT SO THAT MAXIMUM FLEXIBLE DUCT LENGTH DOES NOT EXCEED 5'-0". PROVIDE RIGID 90° ELBOW WHERE REQUIRED TO KEEP FLEXIBLE DUCT WITHIN 5'-0" LENGTH LIMITATION.
2. COORDINATE EXACT LENGTH AND LOCATION OF SLOT DIFFUSER WITH ARCHITECT'S REFLECTED CEILING PLAN.
3. REFER TO DIFFUSER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EACH SCHEDULED BORDER TYPE.
4. REFER TO SPECIFICATIONS FOR FLEXIBLE DUCTWORK INSTALLATION REQUIREMENTS.

7 SIDEWALL LINEAR SLOT DIFFUSER DETAIL
NTS

STANDARD SLOT PLENUM DIMENSIONS

SLOT WIDTH	MIN. WIDTH (W)	NOMINAL LENGTH	PLENUM LENGTH
1"	2-3/4"	24, 36, 48, 60	21-3/4", 33-3/4", 45-3/4", 57-3/4"
1-1/2"	3-3/4"	24, 36, 48, 60	21-3/4", 33-3/4", 45-3/4", 57-3/4"
2"	4-3/4"	24, 36, 48, 60	21-3/4", 33-3/4", 45-3/4", 57-3/4"

INLET SIZE	A	B
6" OVAL	6-1/4"	5-1/4"
8" OVAL	8-1/4"	5-1/4"
10" OVAL	10-1/4"	5-1/4"

PLENUM DIMENSIONS FOR WHEN PLENUM MUST FIT BETWEEN FRAMING

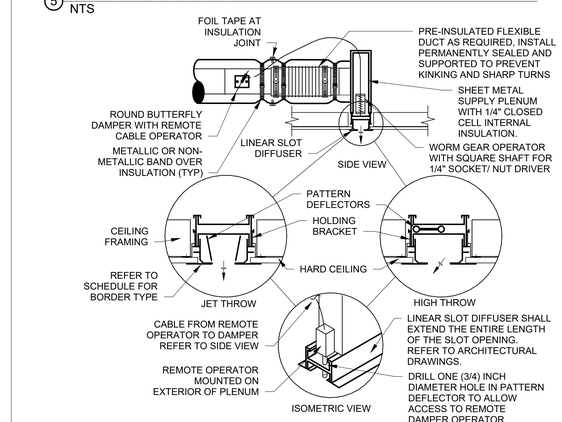
SLOT WIDTH	MIN. WIDTH (W)	NOMINAL LENGTH	PLENUM LENGTH
1"	2-3/4"	22, 34, 46, 58	19-3/4", 31-3/4", 43-3/4", 55-3/4"
1-1/2"	3-3/4"	22, 34, 46, 58	19-3/4", 31-3/4", 43-3/4", 55-3/4"
2"	4-3/4"	22, 34, 46, 58	19-3/4", 31-3/4", 43-3/4", 55-3/4"

INLET SIZE	A	B
6" OVAL	6-1/4"	5-1/4"
8" OVAL	8-1/4"	5-1/4"
10" OVAL	10-1/4"	5-1/4"

NOTES:

1. PLENUM MAY BE MOUNTED ON LINEAR SLOT DIFFUSER OR ARCHITECTURAL SLOT.
2. PROVIDE 1/4" THICK, INTERNAL, CLOSED CELL INSULATION ON ALL PLENUMS.
3. MINIMUM WIDTH INCLUDES 1/4" CLOSED CELL INTERNAL INSULATION.
4. COVE SLOT PLENUM CONSTRUCTION DIMENSIONS TO BE USED FOR PLENUMS SUPPLYING OUT OF LIGHT COVES ONLY.
5. COVE SLOT PLENUMS SHALL BE CONSTRUCTED TO FIT BETWEEN SLOT FRAMING AT 24", 36", 48" OR 60" ON CENTER.

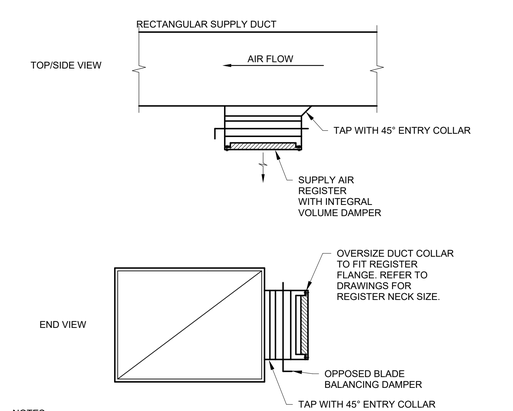
8 SUPPLY PLENUM CONSTRUCTION DETAIL
NTS



NOTES:

1. EXTEND HARD METAL DUCT SO THAT MAXIMUM FLEXIBLE DUCT LENGTH DOES NOT EXCEED 5'-0". PROVIDE RIGID 90° ELBOW WHERE REQUIRED TO KEEP FLEXIBLE DUCT WITHIN 5'-0" LENGTH LIMITATION.
2. COORDINATE EXACT LENGTH AND LOCATION OF SLOT DIFFUSER WITH ARCHITECT'S REFLECTED CEILING PLAN.
3. REFER TO DIFFUSER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EACH SCHEDULED BORDER TYPE.
4. REFER TO SPECIFICATIONS FOR FLEXIBLE DUCTWORK INSTALLATION REQUIREMENTS.

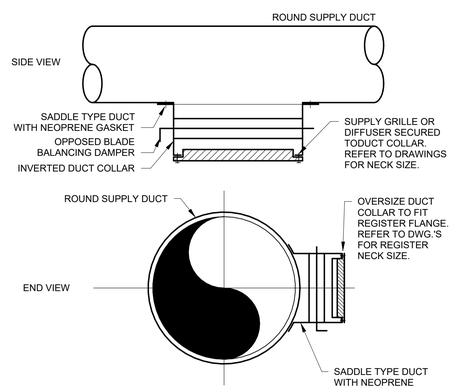
9 LINEAR SLOT DIFFUSER IN GYP CEILING DETAIL
NTS



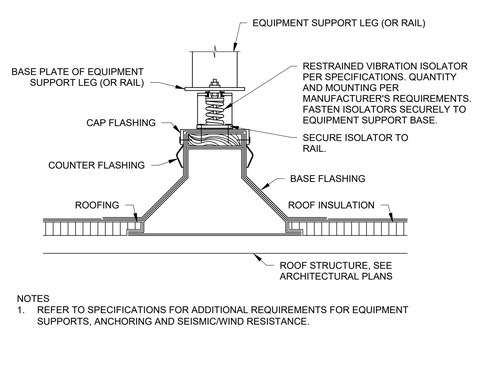
NOTES:

1. POSITION ADJUSTABLE LOUVERS DURING TESTING AND BALANCING FOR OCCUPANT COMFORT AND TO DECREASE DRAFTS IN THE SPACE.

10 REGISTER MOUNTING TO RECTANGULAR DUCT DETAIL
NTS



11 REGISTER MOUNTING TO ROUND DUCT DETAIL
NTS



NOTES

1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR EQUIPMENT SUPPORTS, ANCHORING AND SEISMIC/WIND RESISTANCE.

12 ROOF EQUIPMENT SUPPORT RAIL WITH VIBRATION ISOLATION DETAIL
NTS

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KEY PLAN (NTS)

SHEET NAME

MECHANICAL DETAILS

PROJECT NUMBER **24531**
DOB NUMBER **5050**
SCALE **12" = 1'-0"**
FORMAT **ARCH D**

SHEET NUMBER **M501**

PROJECT DESIGN CONDITIONS

CLIMATE CONDITONS		WEATHER STATION					REFERENCE
WEATHER STATION:		BENTONVILLE, AR					2021 ASHRAE
CLIMATE ZONE:		4A					
ASHRAE HEATING:	99.6%	10.1	°F DB				
DESIGN HEATING CONDITIONS:		0.3	°F DB				
HUMIDIFICATION:	99.6%	0.5	°F DP	5.9	gr/lb	13.6	°F DB
ASHRAE COOLING:	0.4%	95.3	°F DB	75.1	°F WB		
DESIGN COOLING CONDITIONS:		99.3	°F DB	80.1	°F WB		
DEHUMIDIFICATION:	0.4%	73.5	°F DP	130.7	gr/lb	84.0	°F DB

MONDAY - FRIDAY	TBD BY OWNER
SATURDAY	TBD BY OWNER
SUNDAY	TBD BY OWNER
HOLIDAY	TBD BY OWNER

BUILDING OPERATING HOURS:

BAS CONTRACTOR SHALL PROVIDE CAPABILITY FOR 20 DISTINCT BUILDING SCHEDULES/EVENT TYPES TO BE DETERMINED BY THE OWNER. SCHEDULES SHALL BE CONVEYED BY THE BAS TO OTHER CONTROL SYSTEMS IN THE BUILDING (INCLUDING BUT NOT LIMITED TO THE LIGHTING CONTROL AND POWER MONITORING SYSTEMS) VIA SYSTEM INTEGRATION.

SPACE / UNIT DESCRIPTION	SET POINTS											SPACE OPERATING HOURS OCCUPIED / UNOCCUPIED DAYS OF THE WEEK			NOTES
	COOLING / DE-HUMIDIFICATION				HEATING		HUMIDIFICATION		ZONE VENTILATION RESET						
	OCC °F	UNOCC °F	MAX RH %	MIN RH %	OCC °F	UNOCC °F	MIN RH %	MAX RH %	CONTROL METHOD	BASE PPM	MAXIMUM PPM	M-F	SAT	SUN	
AV / DAS / IDF / IT / MDF	75	75	50%	NA	65	65	NA	NA	NA	NA	NA	TBD	TBD	TBD	B-E
AUDIENCE / STANDING / SEATED	72	80	50%	NA	68	60	NA	NA	CO2	400	900	TBD	TBD	TBD	A-D
CLUB / LOUNGE	72	80	50%	NA	70	60	NA	NA	NA	NA	NA	TBD	TBD	TBD	B-D
CONCESSION / KITCHEN	78	85	50%	NA	68	58	NA	NA	NA	NA	NA	TBD	TBD	TBD	B-D
CONFERENCE / MEETING	72	80	50%	NA	70	60	NA	NA	CO2	400	900	TBD	TBD	TBD	A-D
DEFAULT / OFFICE / RETAIL	72	80	50%	NA	70	60	NA	NA	NA	NA	NA	TBD	TBD	TBD	B-D
LAUNDRY	75	80	50%	NA	68	65	NA	NA	NA	NA	NA	TBD	TBD	TBD	B-D
STORAGE / MEP / CORRIDOR	80	80	50%	NA	65	65	NA	NA	NA	NA	NA	TBD	TBD	TBD	B-D

NOTES:
A. ZONE LEVEL VENTILATION RESET / DEMAND CONTROL VENTILATION (DCV) CONTROL METHOD: CARBON DIOXIDE SENSOR (CO2).
B. ZONE LEVEL SET POINT CONDITIONS SHALL BE AS SCHEDULED UNLESS OTHERWISE SCHEDULED OR NOTED ON THE DRAWINGS FOR ROOM SPECIFIC SPACE CONDITIONS.
C ZONE LEVEL OCCUPANCY HOUR SCHEDULE SHALL BE PER BUILDING OPERATING HOURS UNLESS OTHERWISE SCHEDULED.
D. ZONE LEVEL CONTROLS SHALL BE CAPABLE OF OPERATING WITH INDEPENDENT OCCUPANCY SCHEDULES.
E. ZONE RELATIVE HUMIDITY FOR AREAS PROVIDED WITH HUMIDIFIERS ONLY. REFER TO PLANS AND OTHER CONTROL DIAGRAMS FOR ADDITIONAL INFORMATION.

POINTS LIST - GLOBAL BUILDING MONITORING

POINT ID	DESCRIPTION	POINT TYPE	UNITS	ACCURACY	TRENDING INTERVAL	ENERGY DASHBOARD DISPLAY	STATUS ALARM	ALARM RANGE	NOTES
GENERAL									
DATE	DATE	AV	MM/DD/YYYY			X			
TIME	TIME	AV	HH:MM			X			
BUILDING SENSORS									
BDP	BUILDING DIFFERENTIAL PRESSURE	AI	IN. W.G.	SPEC	15 MIN.	X	X	-0.15 > BDP > +0.20	A, B
OACO2	OUTSIDE AIR CARBON DIOXIDE LEVEL	AI	PPM	SPEC	15 MIN.				
OAT	OUTSIDE AIR DRY BULB TEMPERATURE	AI	°F	SPEC	15 MIN.	X			
OAWB	OUTSIDE AIR WET BULB TEMPERATURE	AV	°F		15 MIN.				C
OAH	OUTSIDE AIR RELATIVE HUMIDITY	AI	%	SPEC	15 MIN.	X			
LIFE SAFETY									
FA-ST	FIRE ALARM SYSTEM STATUS MONITORING	BI					X	ON ACTIVATION	M
ELECTRICITY METERING									
E-KW	ELECTRIC DEMAND	AI	KW	±1.0%	15 MIN.	X			D
E-KW-P	ELECTRIC PEAK HISTORICAL DEMAND	AV	KW		15 MIN.				F
E-KWH	ELECTRIC CONSUMPTION	AI	KWH	±1.0%	15 MIN.	X			D
E-KWH-P	ELECTRIC KWH PER RATE PERIOD	AV	KWH		15 MIN.	X			G
NATURAL GAS FUEL METERING									
G-FM-T	GAS METER TOTAL	AI	KWH		15 MIN.				D
DOMESTIC COLD WATER									
DCW-WM-GAL-T	DOMESTIC COLD WATER METER VOLUME TOTAL	AI	GAL		15 MIN.				D
DCW-WM-GPM-T	DOMESTIC COLD WATER METER FLOW RATE AGGREGATE	AI	GPM		15 MIN.				D

NOTES:
A. INITIAL SETPOINT SHALL BE 0.05 IN. W.G. COORDINATE FINAL SETPOINT AT BUILDING STARTUP.
B. APPLY A MOVING TIME AVERAGE TO BUILDING DIFFERENTIAL PRESSURE USING A SLIDING 5-MINUTE WINDOW TO REDUCE DAMPER AND FAN CONTROL FLUCTUATIONS.
C. PERFORM PSYCHROMETRIC CALCULATION TO OBTAIN VALUE BASED ON OUTSIDE AIR DRY BULB TEMPERATURE (OAT) AND OUTSIDE AIR RELATIVE HUMIDITY (OAH).
D. CALCULATE TOTAL UTILITY USE FROM THE SUM OF ALL METERS AND SUBMETERS SERVING END USE. EXCLUDE SUBMETERS ALREADY INCLUDED IN AN UPSTREAM METER.
F. TREND HISTORICAL PEAK FOR A MINIMUM PERIOD OF 12 MONTHS.
G. COORDINATE WITH THE OWNER REGARDING THE TIME PERIOD USED TO CALCULATE THE CONSUMPTION PER PERIOD.
M. RELAY FROM FIRE ALARM SYSTEM PROVIDED BY DIVISION 28. CONTROL WIRING FROM BAS TO RELAY BY DIVISION 23. DISPLAY FIRE ALARM SYSTEM STATUS (NORMAL/ALARM) AT BAS FRONT END.

POINTS LIST - ANCILLARY SYSTEMS

POINT ID	DESCRIPTION	POINT TYPE	DEFAULT SETPOINT	SETPOINT RESET RANGE	FAIL POSITION	STATUS ALARM	ALARM RANGE	NOTES
DOMESTIC HOT WATER HEATING SYSTEM								
DHWH-COM-X	DOMESTIC HOT WATER HEATER COMMUNICATION	COM				X	UPON ACTIVATION	B,G,F
DHWH-EMSTP	DOMESTER HOT WATER HEATER EMERGENCY STOP BUTTON	BI				X	UPON ACTIVATION	B,F
DHWT-T	DOMESTIC HOT WATER TANK TEMPERATURE	AI		140		X	T>145F	B,C,F
DHWS-T	DOMESTIC HOT WATER SUPPLY TEMPERATURE	AI		140		X	T>145F	B,C,F
DHWR-T	DOMESTIC HOT WATER RETURN TEMPERATURE	AI						B,C,F
DHWM-T	DOMESTIC HOT WATER MIXED TEMPERATURE	AI						B,C,F
DHWS-P	DOMESTIC HOT WATER SUPPLY PRESSURE	AI						
DCW-T	DOMESTIC WATER TEMPERATURE	AI						B,C,F
DOMESTIC BOOSTER PUMP								
DWP-C-X	PUMP COMMAND	BI						B
DWP-FLT-X	PUMP FAULT	BI				X	ALARM	B,F
DWP-ST-X	PUMP STATUS	BI				X	ALARM	B,F
DWP-P	DOMESTIC BOOSTER SYSTEM PRESSURE	AI	TBD	TBD				B,C,F
DWP-LP-X	LOW SUCTION PRESSURE	AI	TBD	TBD		X	TBD	B,F
DWP-HP-X	DISCHARGE PRESSURE	AI	TBD	TBD		X	35 PSI <DWP-HP< 75 PSI	
DWP-F-HI-X	HIGH FLOW ALARM	BI				X	ALARM	B,C,F
DWP-TS	DOMESTIC WATER SUPPLY TEMPERATURE	AI						B,C,F
DOMESTIC WATER RECIRCULATION PUMP (TYPICAL ALL)								
RCP-C	RECIRCULATION PUMP COMMAND	BO						B,F
RCP-ST	RECIRCULATION PUMP STATUS	BI				X	RCP-ST <> RCP-C	B,F
LEAK DETECTION								
LD-X	CONDENSATE LEAK DETECTION	BI				X	ON ACTIVATION	R
PL-DHWR-X	DOMESTIC HOT WATER RECIRCULATION LEAK DETECTION	BI				X	ON ACTIVATION	R
ELEVATOR SUMP PUMPS								
ELSP-FLT-X	SUMP PUMP FAULT	BI				X	ALARM	B
ELSP-ST-X	SUMP PUMP STATUS	BI				X		B
ELSP-HL-X	SUMP PUMP HIGH LIMIT ALARM	BI				X	ALARM	B
AUTOMATIC TRANSFER SWITCH								
ATS-ST	ATS STATUS	BI				X		G,H
ATS-FLT	ATS FAULT	BI				X	ALARM	

ALL POINTS SHOWN SHALL BE PROVIDED BY BAS CONTRACTOR UNLESS NOTED OTHERWISE.

NOTES:
A. BAS CONTRACTOR SHALL PROVIDE DEVICE.
B. DISPLAY VALUE ON GRAPHIC AT BAS FRONT END.
C. POINT SHALL BE ADJUSTABLE.
D. PROVIDE IN ALL SPACES SERVED BY STAND-ALONE ELECTRIC CABINET UNIT HEATERS OR SPLIT SYSTEM FAN COIL UNITS FOR MONITORING AND ALARM. INSTALL BAS SENSOR ADJACENT TO UNIT FACTORY PROVIDED SENSOR....
E. COORDINATE POINTS WITH GENERATOR / ATS FACTORY CONTROLS AND DIVISION 26.
F. REFER TO PLUMBING PLANS FOR QUANTITY AND LOCATIONS
G. PROVIDE ALL GATEWAYS REQUIRED FOR COMMUNICATION BETWEEN CONTROLLER AND BAS.
H. PROVIDE INPUTS TO MONITOR DRY CONTACTS FOR TROUBLE AND SUPERVISORY ALONG WITH ALARM.
J. PROVIDE STATUS VIA CURRENT TRANSDUCER ON THE POWER LEAD TO THE PUMP MOTOR.
K. BAS CONTRACTOR SHALL FURNISH DEVICE, DIVISION 21 CONTRACTOR SHALL INSTALL IN PIPING DOWNSTREAM OF THE FIRE PUMP DISCHARGE.
M. ALARM ON COMMON ALARM OR WHEN STATUS IS OFF AND OAT < 36F, OR WHEN STATUS IS ON AND OAT > 40F.

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KEY PLAN (NTS)

SHEET NAME

MECHANICAL CONTROLS

PROJECT NUMBER **24531**
CCB NUMBER **5050**
SCALE
FORMAT **ARCH D**

SHEET NUMBER **M600**

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