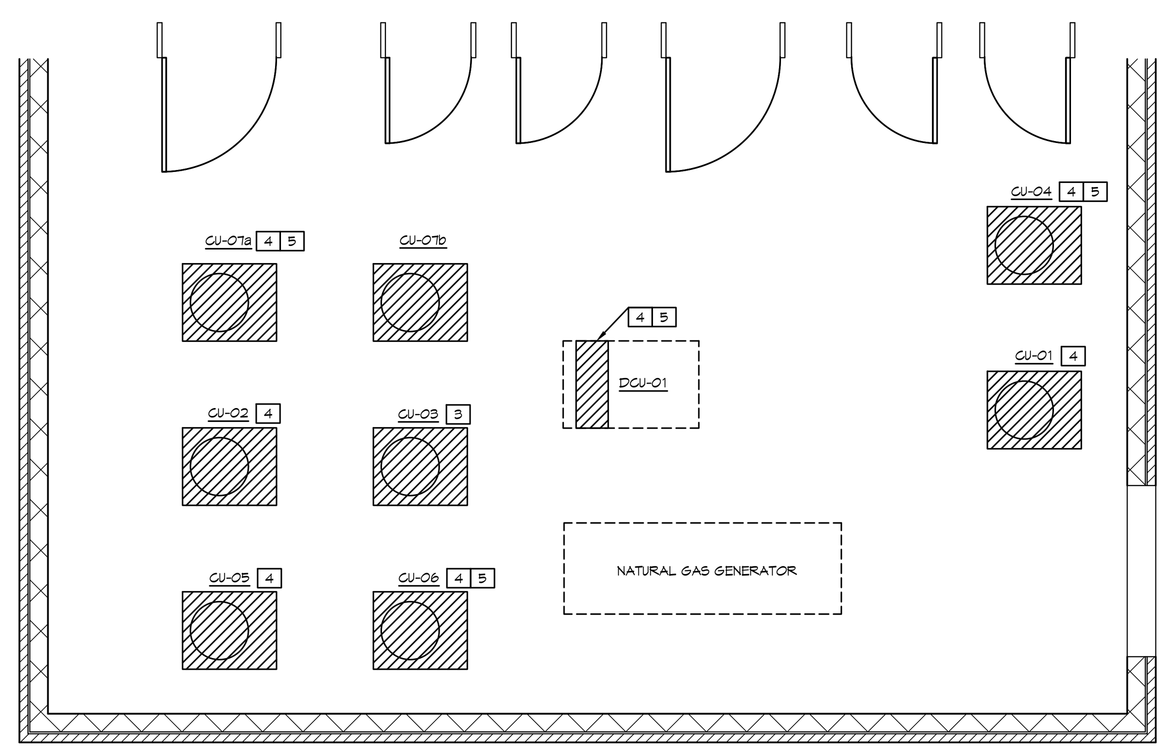
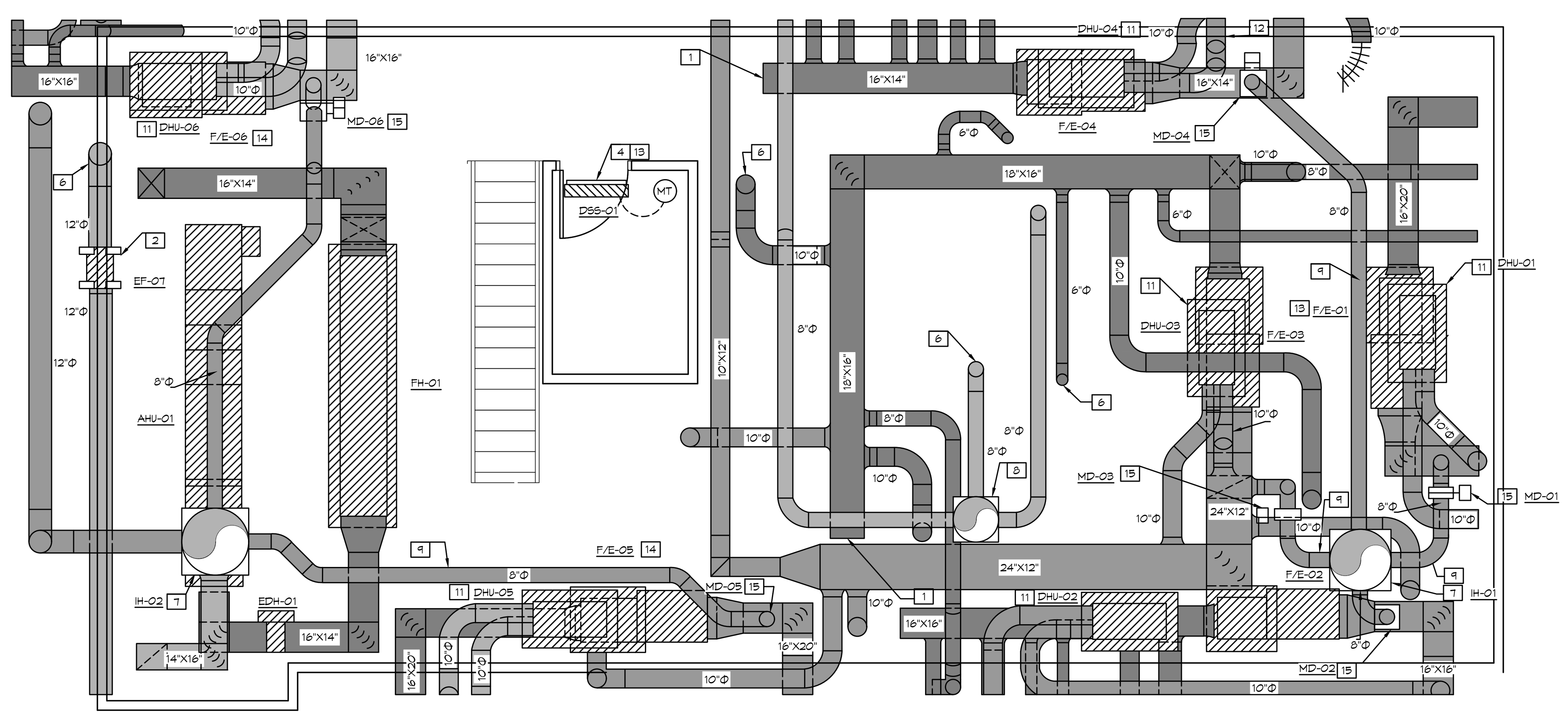


2 MECHANICAL PLAN OUTDOOR
SCALE: 3/16" = 1'-0"



3 MECHANICAL PLAN MEZZANINE
SCALE: 3/16" = 1'-0"

SPECIFIC HVAC NOTES

1. CONTRACTOR SHALL EXTEND SUPPLY AIR TRUNK DUCT MINIMUM 24" BEYOND LAST BRANCH DUCT TAKEOFF.
2. INLINE FAN MOUNTED ABOVE CEILING. SEE DETAIL FOR CLARITY.
3. CEILING MOUNTED EXHAUST FAN. SEE DETAIL FOR CLARITY.
4. PROVIDE AND INSTALL MANUFACTURER'S RECOMMENDED SIZE AND CONFIGURATION REFRIGERANT PIPING ROUTED CONCEALED BETWEEN INDOOR EVAPORATOR COIL AND MATCHING CONDENSING UNIT.
5. TYPICAL CONDENSING UNIT MOUNTED ON CONCRETE PAD. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCES.
6. TYPICAL DUCTWORK ROUTED UP/DOWN TO FLOOR ABOVE/BELOW. SIZE AS INDICATED ON PLANS. PROVIDE BOXOUTS IN FLOOR SLABS OF ADEQUATE SIZE TO ACCOMMODATE DUCTWORK INSULATION REQUIREMENTS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.
7. OUTSIDE AIR DUCT ROUTED UP THROUGH ROOF TO INTAKE HOOD. SEE SCHEDULE AND DETAIL FOR MORE INFORMATION.
8. EXHAUST AIR DUCT ROUTED UP THROUGH ROOF TO RELIEF CAP. SEE SCHEDULE AND DETAIL FOR MORE INFORMATION.
9. TYPICAL OUTSIDE AIR INTAKE DUCT ROUTED FROM ROOF INTAKE HOOD TO HVAC EQUIPMENT AS INDICATED.
10. TWO (2) EACH VENTILATION LOUVERS (SIZE AS INDICATED) EQUAL TO GREENHECK MODEL ESD-403 WITH FULL SIZE SLEEVE THROUGH WALL. PROVIDE WITH SCREEN AND KYNAR FINISH. MOUNT ONE LOUVER WITH BOTTOM AT ±12" A.F.F. AND ONE WITH BOTTOM OF LOUVER AT ±8'-0" A.F.F. VERIFY COLOR AND LOCATION WITH ARCHITECT.
11. DUCTED DEHUMIDIFIER MOUNTED HIGH IN SPACE. SEE DETAIL FOR CLARITY.
12. ROLL DUCTWORK UP/DOWN UTILIZING MAXIMUM 45 DEGREE ELBOWS AS REQUIRED TO AVOID CONFLICT.
13. TYPICAL WALL MOUNTED DUCTLESS HEAT PUMP UNIT MOUNTED HIGH ON WALL OVER DOOR. SEE DETAIL FOR CLARITY.
14. TYPICAL FURNACE/EVAPORATOR. SEE DETAIL.
15. PROVIDE TWO POSITION MOTORIZED DAMPER WITH 24V. ACTUATOR. INTERLOCK DAMPER ACTUATOR TO OPEN UPON ENERGIZATION OF BLOWER MOTOR.
16. INSTALL MAGNEHELIC GAUGES (0-0.25"W.C.) AS INDICATED ON WALL IN CORRIDOR. INSTALL IN DOOR OF CONTROL PANEL ENCLOSURE FOR NEAT APPEARANCE AND TO ALLOW ACCESS TO SAMPLING TUBE CONNECTIONS. THREE (3) REQUIRED. COORDINATE LOCATION WITH OTHER WALL INSTALLATION THIS AREA. ADVANCED LAB 135 IS POSITIVE WITH RESPECT TO ALL ADJACENT ROOMS. ADVANCED PROCEDURE IS NEGATIVE WITH RESPECT TO ADVANCED LAB BUT POSITIVE WITH RESPECT TO CORRIDOR. INSTALL SAMPLING PORTS IN CEILING AND CONNECT TO BOTH HIGH AND LOW PRESSURE PORTS WITH INTERCONNECTING TUBING. CONCEAL TUBING IN WALL AT MAGNEHELIC GAUGES.
17. INSTALL HVAC ALARM ANNUCIATION PANEL/LIGHT FOR AHU-01 ON WALL. COORDINATE LOCATION WITH OTHER WALL INSTALLATION THIS AREA.
18. INSTALL FILTER HOUSING UV LAMP ALARM/MONITORING PANEL ON WALL. COORDINATE LOCATION WITH OTHER WALL INSTALLATION THIS AREA.

GENERAL HVAC NOTES

1. CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL WRAPED WITH FIBROUS GLASS DUCT WRAP WITH FSK VAPOR BARRIER, MIN R-6. INSTALLED PER SMACNA STANDARDS. DUCT WORK IMMEDIATELY DOWNSTREAM FROM AHU SHALL BE LINED FOR SOUND ATTENUATION.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
3. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
4. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
5. IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
6. PROVIDE UL LISTED 125 'F' FIRESTAT IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
7. PROVIDE UL RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES AND EXHAUST FANS.
8. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
9. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
10. ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
11. EXHAUST FAN SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCH(S). PROVIDE BACK DRAFT DAMPER.
12. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
13. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS AT THE REGISTER.
14. LOCATE OUTDOOR UNITS AS SHOWN ON ARCHITECTURAL DRAWINGS.
15. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
16. FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
17. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E8-14).
18. ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMMATICALLY, CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
19. FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 12'-0".
20. REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
21. FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
22. PROVIDE AND INSTALL SMOKE DETECTORS AS APPROVED BY LOCAL AHJ'S. PLACE NEAR R/A AND S/A OPENINGS OF AHU AND PROVIDE, WITH ACCESS PANEL, WIRING BY ELECTRICAL CONTRACTOR.
23. FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.
24. PROVIDE BIRD SCREENS AT ALL EXTERIOR MECHANICAL PENETRATIONS.
25. COORDINATE WALL MOUNTED THERMOSTAT LOCATIONS WITH ALL OWNER FURNISHED ITEMS EITHER WALL MOUNTED OR FLOOR MOUNTED AGAINST PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS.
26. PROVIDE MIN 18 GA GALVANIZED SHEET METAL TO BLANK-OFF GABLE VENTS WHERE INTAKE/EXHAUST DUCTS OCCUR.

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#	DESCRIPTION	DATE

REVISIONS

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540 OAK HARBOR BLVD
SLIDELL, LA 70458

JOB No:	2513	DATE:	06-03-2025
DRAWN BY:	CKD	CHECKED BY:	BAM

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SHEET TITLE:
MECHANICAL PLAN, MEZZANINE

DRAWING NUMBER:
M1.1