

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

GENERAL NOTES:

- A. INSTALL VOLUME DAMPER IN DUCT TAKE-OFF TO EACH DIFFUSER, GRILLE, AND REGISTER.
- B. ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR MAY, AT THEIR OPTION, REPLACE RECTANGULAR DUCTWORK SHOWN WITH ROUND, SPIRAL DUCT OF EQUIVALENT CAPACITY.
- C. IN GENERAL, ALL PIPING AND DUCTWORK SHALL BE RUN CONCEALED IN SUSPENDED CEILING SPACES AND IN SHAFTS PROVIDED UNLESS NOTED OR INDICATED OTHERWISE.
- D. VERIFY ALL DUCT CONNECTION SIZES TO FANS, COILS, AND EXISTING DUCTWORK.
- E. COOPERATE WITH THE OTHER TRADES TO ELIMINATE ANY CONFLICTS BETWEEN PIPING, DUCTWORK, STRUCTURAL, ELECTRICAL WORK, ETC.
- F. DIFFUSER, REGISTER, AND SPRINKLER HEAD LOCATIONS SHALL BE COORDINATED WITH LIGHT FIXTURE LOCATIONS AND SHALL BE IN ACCORDANCE WITH CEILING PATTERNS AS SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS.
- G. ALL SQUARE DIFFUSERS SHALL HAVE THE AIR VOLUME EQUALLY IN FOUR DIRECTIONS UNLESS INDICATED OTHERWISE.
- H. MECHANICAL CONTRACTOR TO VERIFY RATINGS OF ALL WALLS WITH ARCHITECTURAL DRAWINGS. SEAL PIPE PENETRATIONS TO MATCH THE WALL RATINGS. PROVIDE ALL SUPPLY AND RETURN DUCTS PASSING THROUGH FIRE RATED WALLS WITH APPROVED FIRE DAMPERS.
- I. RUNOUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE DIFFUSERS NECK SIZE.
- J. TENANT'S CONTRACTORS SHALL VERIFY WITH HVAC PLAN TO COORDINATE THE REQUIREMENT OF PLENUM RATED FIXTURES, PIPING, WIRING, ETC. FAILURE TO DO SO COULD RESULT IN THE REMOVAL AND REPLACEMENT OF THESE ITEMS AT NO ADDITIONAL COST TO THE TENANT - NO PVC PIPING ALLOWED IN PLENUM.
- K. CONTRACTOR SHALL STENCIL TENANT NAME AND SPACE NUMBER ON UNIT.
- L. THE TENANT'S MECHANICAL CONTRACTOR SHALL GO TO THE SITE AND VERIFY THE SIZE, DESIGN, SUPPORT AND LOCATION FOR ALL EXISTING AND FUTURE MECHANICAL EQUIPMENT AND UTILITY TAPS PRIOR TO ANY EQUIPMENT ORDERING, WORK, DUCTWORK FABRICATION ETC. NOTIFY THE TENANT'S PROJECT MANAGER OR PROJECT ENGINEER IMMEDIATELY WITH ANY DISCREPANCIES. FAILURE TO DO SO COULD RESULT IN EQUIPMENT AND/OR MATERIALS REPLACEMENT AT NO ADDITIONAL EXPENSE TO THE TENANT.
- M. ALL EQUIPMENT, INSTALLATIONS, AND MATERIAL SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES AND LANDLORD CRITERIA.
- N. REMOVE ALL UNUSED PIPING, DUCTWORK, AND ACCESSORIES - DO NOT ABANDON.
- O. VERIFY LOCATION OF ANY PENETRATION THRU ROOF WITH LANDLORD. ALL ROOF PENETRATIONS, PATCHING, AND FLASHING SHALL BE BY LANDLORD-APPROVED ROOFER AT MECHANICAL CONTRACTOR EXPENSE.
- P. PRIOR TO OCCUPANCY OF THE PREMISES, GENERAL CONTRACTOR IS REQUIRED TO PROVIDE AN AIR BALANCE REPORT. AN APPROVED, INDEPENDENT, CERTIFIED AIR-BALANCE COMPANY MUST PERFORM THE TEST REPORT.

GENERAL INSTRUCTION TO BIDDER:

EQUIPMENT SHALL BE TRANE WITH MODELS AND CONFIGURATIONS AS SHOWN. NO SUBSTITUTIONS ALLOWED WITHOUT PRIOR WRITTEN CONSENT FROM OWNER AND ENGINEER. FOR PRICING AND ORDERING PLEASE CONTACT:
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KEY NOTES:

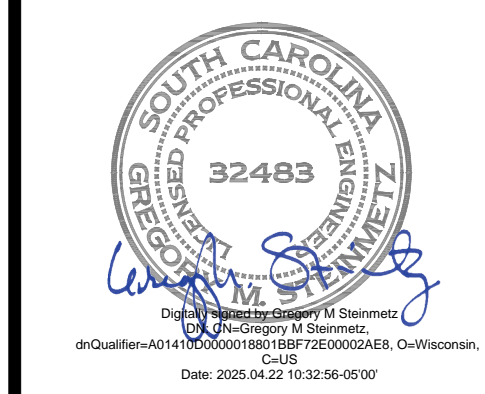
- 1 MECHANICAL CONTRACTOR SHALL PROVIDE 5 TON ROOFTOP UNIT RTU-1. PROVIDE FLEXIBLE CONNECTORS FOR THE SUPPLY AND RETURN AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN. PROVIDE DUCTWORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN. REFER TO EQUIPMENT SCHEDULES FOR ADDITIONAL REQUIREMENTS.
- 2 MECHANICAL CONTRACTOR SHALL PROVIDE 5 TON ROOFTOP UNIT RTU-2. PROVIDE FLEXIBLE CONNECTORS FOR THE SUPPLY AND RETURN AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN. PROVIDE DUCTWORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN. REFER TO EQUIPMENT SCHEDULES FOR ADDITIONAL REQUIREMENTS.
- 3 16" DIA. EXHAUST RISER UP FROM HOOD COLLAR. EXTEND DUCT UP TO EF-1 WITH OFFSET. REFER TO HOOD PLANS FOR MORE INFORMATION.
- 4 FACTORY BUILT, SINGLE WALL, STAINLESS STEEL GREASE EXHAUST DUCT. DUCT SHALL HAVE UL-1978 LISTING AND BE WRAPPED WITH INSULATION TO COMPLY WITH ASTM E2336. INSTALL IN STRICT CONFORMANCE WITH MANUFACTURER INSTRUCTIONS. EXTEND FROM HOOD EXHAUST COLLAR TO FAN INLET. INSTALL ALL TRANSITIONS AND ACCESS PORTS AS REQUIRED FOR COMPLIANCE WITH NFPA-96. GREASE DUCT AND DUCT WRAP SHALL BE FURNISHED AS PART OF HOOD PACKAGE AND INSTALLED BY MECHANICAL CONTRACTOR. REFER TO HOOD PLANS FOR MORE INFORMATION.
- 5 ROOF MOUNTED UPBLAST KITCHEN EXHAUST FAN EF-1 FURNISHED BY HOOD VENDOR AND INSTALLED BY MECHANICAL CONTRACTOR. ROOF CURB PROVIDED BY MECHANICAL CONTRACTOR. SEE EQUIPMENT SCHEDULE AND HOOD DRAWINGS FOR ADDITIONAL INFORMATION.
- 6 28"x12" SUPPLY DUCT RISER UP FROM 28"x12" DUCT COLLAR (TYPICAL OF 3). EXTEND DUCT UP TO MAIN SUPPLY DUCT. BALANCE AIRFLOW TO 720 CFM EACH.
- 7 19"x16" UP THROUGH ROOF TO MAU-1 ON ROOF. ROOF MOUNTED KITCHEN MAKE-UP AIR UNIT (MAU-1) FURNISHED BY HOOD VENDOR AND INSTALLED BY MECHANICAL CONTRACTOR. ROOF CURB PROVIDED BY MECHANICAL CONTRACTOR. SEE EQUIPMENT SCHEDULE AND HOOD PLANS FOR ADDITIONAL INFORMATION. MAINTAIN MINIMUM 10 FEET CLEARANCE TO EXHAUST OUTLETS.
- 8 EXTEND DUCT FROM CEILING EXHAUST FAN TO 8" EXHAUST DUCT THROUGH ROOF. TERMINATE ROOF DUCT NO LESS THAN 10'-0" FROM ANY OUTSIDE AIR INTAKE. PROVIDE WEATHERPROOF CAP AND BIRDSCREEN.
- 9 PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT FOR RTU CONTROL. MOUNTED 4" O.A.F.F. ABOVE MANAGER'S DESK COVERED WITH CLEAR LOCKABLE BOX. THERMOSTAT SHALL HAVE AUTOMATIC NIGHT SET-BACK WITH 5°F DEADBAND, 2-HOUR OCCUPANT OVERRIDE, AND MIN. 10-HOUR BATTERY BACKUP.
- 10 EXHAUST HOOD TO BE FURNISHED BY HOOD VENDOR AND INSTALLED BY MECHANICAL CONTRACTOR. SEE HOOD DRAWINGS FOR ADDITIONAL INFORMATION. SEE ARCHITECTURAL DRAWINGS FOR HOOD MOUNTING LOCATION AND DIMENSIONS.
- 11 REFER TO STRUCTURAL DRAWINGS FOR EXACT EQUIPMENT LOCATION.
- 12 DUCT SMOKE DETECTOR FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR IN RETURN MAIN DUCT. SMOKE DETECTOR SHALL SHUT DOWN HVAC UNIT UPON DETECTION OF SMOKE AND BE CONNECTED TO THE FIRE ALARM SYSTEM.
- 13 PROVIDE TEST/RESET SWITCH AND PIEZO ALERT SOUNDER AND REMOTE ANNUNCIATOR ALARM LED MOUNTED AS DIRECTED BY LOCAL AHJ. MECHANICAL CONTRACTOR TO PROVIDE ALL REQUIRED INTERLOCK WIRING AND COORDINATE ALL FINAL CONNECTIONS.
- 14 CONTRACTOR SHALL ENSURE THAT EXHAUST FANS ARE AT LEAST 10'-0" AWAY FROM ANY FRESH INTAKES. EXHAUST OUTLETS WITHIN 10'-0" OF FRESH AIR INTAKES SHALL BE MIN. 3'-0" ABOVE INTAKE.
- 15 PRE-PIPED FIRE SUPPRESSION SYSTEM FURNISHED BY HOOD VENDOR WITH EXHAUST HOOD. SEE HOOD DRAWINGS FOR DETAILS. MECHANICAL CONTRACTOR SHALL INSTALL OWNER-FURNISHED FIRE SUPPRESSION GAS VALVE AND MAKE ALL ELECTRICAL CONNECTIONS. FIRE SYSTEM HOOKUP IS PROVIDED BY CAPTIVE AIRE.
- 16 VOLUME DAMPER AT DUCT CONNECTION TO MAIN SUPPLY AIR DUCT. TYPICAL.
- 17 SUPPLY AIR DIFFUSER CFM RATES SHALL BE ADJUSTED AS REQUIRED FOR PROPER AIR FLOW AROUND THE HOOD.
- 18 8"ø SUPPLY AIR DUCT DOWN TO HOOD SUPPLY DIFFUSER. TRANSITION AS REQUIRED. BALANCE TO 130 CFM EACH. TYPICAL OF (5).
- 19 FIRE SUPPRESSION SYSTEM PULL STATION. VERIFY EXACT LOCATION IN FIELD WITH LOCAL CODE OFFICIAL PRIOR TO INSTALLATION.
- 20 PROVIDE COMPATIBLE REMOTE TEMPERATURE AND HUMIDITY SENSORS. CONNECT TO CORRESPONDING THERMOSTAT. MOUNT 48" A.F.F. COORDINATE EXACT LOCATION WITH OWNER ON SITE.
- 21 PROVIDE TITUS 50F 26"x18" EGGCRATE TRANSFER AIR GRILLE IN VERTICAL SOFFIT ABOVE COOLER.
- 22 FLEX DUCT 5'-0" MAX LENGTH. TYPICAL FOR ALL.
- 23 DEMOLISH EXISTING CONDENSING UNITS, FAN COIL UNITS, SUPPORT RACKING, AND ALL ASSOCIATED DUCTWORK, REFRIGERANT PIPING, AND CONTROLS.
- 24 DEMOLISH EXISTING MAKE-UP AIR UNIT, STRUCTURAL PLATFORM, AND ALL ASSOCIATED DUCTWORK AND CONTROLS.

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 MECHANICAL FLOOR PLAN