

three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot

**HVAC GENERAL NOTES**

- REFER TO ALL OTHER DRAWINGS AND SPECIFICATIONS, AND BASE BUILDING DRAWINGS & SPECIFICATIONS AND BE RESPONSIBLE FOR ALL APPLICABLE PROVISIONS THEREIN.
- FURNISH AND INSTALL ALL NECESSARY LABOR AND MATERIALS FOR A COMPLETE SYSTEM. ANY APPLIANCES OR MATERIALS OBVIOUSLY A PART OF THE SYSTEM AND NECESSARY FOR ITS PROPER OPERATION, ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN, SHALL BE FURNISHED AND INSTALLED AS IF CALLED FOR IN DETAIL.
- WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, AND NFPA STANDARD 90A.
- DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY FITTING AND DETAIL. INSTALL DUCTS, EQUIPMENT AND CONTROLS IN A NEAT WORKMANLIKE MANNER, AND IN ACCORDANCE WITH GOOD PRACTICE FOR A COMPLETE WORKABLE INSTALLATION. AVOID CONFLICT WITH OTHER WORK. MAKE ADEQUATE PROVISIONS FOR PREVENTING NOISE AND VIBRATION. ARRANGE EQUIPMENT IN THE AVAILABLE SPACE IN A MANNER TO MAKE ALL WORKING PARTS ACCESSIBLE FOR MAINTENANCE AND SERVICE.
- PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE.
- EQUIPMENT AND MATERIALS SHALL BE NEW, UNLESS OTHERWISE SPECIFIED.
- EXACT LOCATION OF ALL SUPPLY DIFFUSERS, RETURN AIR GRILLES, AND EXHAUST REGISTERS TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
- ELECTRICAL - DISCONNECTS AND/OR BREAKERS, POWER WIRING THRU MOTOR CONTROL DEVICES TO ALL MOTORS OR TO JUNCTION BOXES OF FACTORY WIRED EQUIPMENT ARE PROVIDED UNDER THE ELECTRICAL DIVISION OF WORK. MECHANICAL WORK SHALL INCLUDE CONTROL AND INTERLOCK WIRING REQUIRED FOR PROPER OPERATION OF THE SYSTEM, AND SHALL INCLUDE FURNISHING OF MAGNETIC STARTERS OR CONTACTORS WHERE REQUIRED.
- COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT BEFORE ORDERING.
- PROVIDE U.L. LISTED HEAVY GLASS FIBER FABRIC DUCT CONNECTOR AT FAN CONNECTORS; FABRIC CONNECTORS SHALL BE AT LEAST 4" LONG AND HAVE METAL COLLAR AT EACH END; ALLOW AT LEAST ONE INCH SLACK TO ELIMINATE VIBRATION TRANSMISSION.
- PORTIONS OF DUCTWORK VISIBLE THROUGH SUPPLY AND RETURN AIR OPENINGS SHALL BE PAINTED FLAT BLACK.
- LOCATIONS SHOWN FOR EQUIPMENT ARE APPROXIMATE LOCATIONS. CONTRACTOR SHALL COORDINATE WITH THE FIELD CONDITIONS FOR THE EXACT LOCATION AND MODIFY DUCT SYSTEM ACCORDINGLY.
- CONTRACTOR SHALL FIELD VERIFY AVAILABLE SPACE FOR DUCTWORK BEFORE FABRICATING. CONTRACTOR SHALL MODIFY DUCTWORK IN APPROVED MANNER TO FIT AVAILABLE FIELD CONDITIONS.
- SEAL DUCTWORK & INSULATION WITH GLASS FABRIC AND MASTIC. NO EXCEPTIONS ALLOWED.
- WEATHER PROTECTION OF EQUIPMENT AND MATERIALS SHALL BE THE HVAC CONTRACTOR'S RESPONSIBILITY.
- COORDINATE ALL WORK UNDER THIS DIVISION WITH WORK UNDER OTHER DIVISIONS. PROVIDE ADJUSTMENTS AS NECESSARY FOR EQUIPMENT, APPARATUS, DUCTWORK, ETC., ALL ITEMS MOUNTED AT OR BELOW THE CEILING, AND ANY ITEM PENETRATING THE CEILING, SHALL BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
- PROTECTION OF WORK DURING CONSTRUCTION PROVIDE PROTECTIVE COVERS, SKIDS, PLUGS OR CAPS TO PROTECT EQUIPMENT AND MATERIALS FROM DAMAGE AND DETERIORATION DURING CONSTRUCTION. PROTECT EXPOSED COILS WITH PLYWOOD OR OTHER SUITABLE RIGID COVERS TO AVOID DAMAGE TO FINS. PROVIDE COVERS TO ELIMINATE DUST COLLECTION WITHIN DUCTWORK AND/OR EQUIPMENT. DO NOT OPERATE EQUIPMENT DURING CONSTRUCTION.
- ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR PROPER MAINTENANCE AND SERVICE IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR ALL DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF FLOORS AND WALLS PERTAINING TO HIS WORK, UNLESS NOTED OTHERWISE.
- ELECTRICAL CHARACTERISTICS SHOWN ON SCHEDULES ARE DESIGN VALUES ONLY AND SHALL BE VERIFIED AND COORDINATED PRIOR TO ORDERING EQUIPMENT.
- ALL DUCTS TO BE RUN CONCEALED UNLESS NOTED OTHERWISE.
- DUCT SIZES SHOWN ON DRAWINGS ARE INTERIOR DIMENSIONS. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
- 4" CONCRETE MAINTENANCE PAD BY HVAC CONTRACTOR.
- COORDINATE ALL DUCT THROUGH WALL PENETRATION WITH ARCHITECTURAL WITH RESPECT TO ACOUSTICAL SEALANT, SMOKE SEALANT. PROVIDE HANGAR ON EACH SIDE OF PARTITION AT THESE CONDITIONS

**MECHANICAL LEGEND:**

- DDC DIRECT DIGITAL CONTROL
- EF-1 EXHAUST FAN DESIGNATION
- AHU-1 AIR HANDLING UNIT DESIGNATION
- VAV-1 VAV BOX DESIGNATION
- BFP BACK FLOW PREVENTER
- PRV PRESSURE REDUCING VALVE
- 250/9x9 DIFFUSER DESIGNATION (TYPE, CFM, NECK SIZE)
- HWS HOT WATER SUPPLY
- HWR HOT WATER RETURN
- CWS CHILLED WATER SUPPLY
- CWR CHILLED WATER RETURN
- CDWS CONDENSER WATER RETURN
- CDWR CONDENSER WATER SUPPLY
- GATE VALVE
- BALANCING VALVE
- PRESSURE GAUGE
- THERMOMETER
- PLUG VALVE
- UNION
- STRAINER
- CHECK VALVE
- SENSOR (TEMP & HUMIDITY)
- DIFFUSER, DIRECTION OF FLOW AS INDICATED
- SIDEWALL REGISTER/GRILLE
- RETURN AIR OUTLET
- EXHAUST OUTLET
- DUCT SIZE, FIRST NO. IS SIDE SHOWN
- ELBOW WITH TURNING VANE
- MANUAL VOLUME DAMPER
- 3 WAY MIXING VALVE, ELECTRIC MODULATION VALVE
- 2 WAY MIXING VALVE, ELECTRIC MODULATION VALVE
- N.O. NORMALLY OPEN
- N.C. NORMALLY CLOSED
- VAV VARIABLE AIR VOLUME
- OA OUTSIDE AIR
- RA RETURN AIR
- VFD VARIABLE FREQUENCY DRIVE
- UNO UNLESS NOTED OTHERWISE
- BV BALANCING VALVE

**DESIGN CONDITIONS**

SEASON	OUTSIDE	INSIDE
SUMMER	95°F DB, 82°F WB	75°F DB, 45% RH
WINTER	27°F	72°F

**NOTE:**

BASE BID:  
 WORK INCLUDES GENERAL CONSTRUCTION OF 30150 SQUARE FEET BUILDING AND ALL WORK INCLUDED IN DRAWINGS AND SPECIFICATIONS.

DEDUCTIVE ALTERNATIVE NO. 10:  
 CONVERT APPROXIMATELY 1900 SQUARE FEET OF BUILDING AREA TO COVERED PORCH PER SHEETS AS10-A1, AS301-A1, EL101-A10, EP101-A10, EP602, EP603, MH001A10, AND MH007A10

DEDUCTIVE ALTERNATIVE NO. 11:  
 REPLACE THE CONTRACTOR-FURNISHED AIR-COOLED CHILLER (60 TON) WITH A GOVERNMENT-FURNISHED, CONTRACTOR INSTALLED AIR-COOLED CHILLER PER SHEETS MH007A11 AND MP001A11.

FINAL SUBMISSION / FULLY SPRINKLERED

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