



- # MECHANICAL KEY NOTES
1. PROVIDE AND INSTALL NEW AIR HANDLER. TRANSITION CHILLED PIPING AS REQUIRED FOR CONNECTIONS TO AIR HANDLER. VALVE INSTALLED HIGH NEAR MAIN PIPING TAP. COORDINATE EXACT LOCATION OF AIR HANDLER WITH MECHANICAL CONTRACTOR. PROVIDE 1/2" FLUE INSULATION CONDENSATE LINE TO FLOOR DRAIN. PROVIDE WATER LEVEL SENSOR IN DRAIN PAN TO SHUT OFF UNIT IF PRIMARY DRAIN FALS. MAINTAIN MANUFACTURERS RECOMMENDED CLEARANCE AROUND UNIT. PROVIDE INSTAL DRAIN CONDENSATE DRAIN TO FLOOR DRAIN. PROVIDE 1/2" FLUE INSULATION ASSOCIATED MOTORIZED DAMPER. PROVIDE AND INSTALL NEW DUCT STATIC PRESSURE SENSOR IN MAIN SUPPLY DUCT APPROXIMATELY 34 DOWN THE MAIN RUN (UNLESS SHOWN OTHERWISE). COORDINATE EXACT FAN LOCATION WITH CONTROLS CONTRACTOR. REFER TO SCHEDULE AND DETAILS FOR MORE INFORMATION.
  2. PROVIDE AND INSTALL NEW SUPPLY AIR FAN FOR OUTSIDE AIR. FAN TO BE INTERLOCKED WITH ASSOCIATED PRESSURE SENSOR. FAN SHALL BE CONTROLLED BY 24VDC TRANSFORMER SETPOINT FOR BUILDING PRESSURE. REFER TO SCHEDULE AND DETAILS FOR MORE INFORMATION.
  3. PROVIDE AND INSTALL BUILDING MANAGEMENT SYSTEM PANEL (BMS) IN MECHANICAL ROOM. COORDINATE EXACT MOUNTING LOCATION TO MAINTAIN PROPER CLEARANCES RECOMMENDED BY MANUFACTURER.
  4. PROVIDE AND INSTALL SUPPLY FAN VARIABLE FREQUENCY DRIVE (VFD) IN MECHANICAL ROOM. COORDINATE EXACT MOUNTING LOCATION TO MAINTAIN PROPER CLEARANCES RECOMMENDED BY MANUFACTURER. VFD SHALL MODULATE BASED UPON DUCT-MAOUNTED, ADJUSTABLE PRESSURE SENSOR.
  5. PROVIDE AND INSTALL AIR HANDLER VARIABLE FREQUENCY DRIVE (VFD) IN MECHANICAL ROOM. COORDINATE EXACT MOUNTING LOCATION TO MAINTAIN PROPER CLEARANCES RECOMMENDED BY MANUFACTURER.
  6. PROVIDE AND INSTALL NEW MOTORIZED DAMPER. DAMPER TO BE INTERLOCKED WITH ASSOCIATED MECHANICAL EQUIPMENT OPERATION. DAMPER TO BE CLOSED WHEN UNIT IS 'OFF'. FIELD VERIFY EXACT LOCATION.
  7. PROVIDE AND INSTALL NEW MANUAL BALANCING DAMPER IN DUCTWORK. FIELD VERIFY EXACT LOCATION.
  8. ROUTE OUTSIDE AIR DUCT DOWN TO IMMEDIATE VICINITY OF RETURN AIR INTAKE. DUCT TO TERMINATE APPROXIMATELY 5' ABOVE FRESH FLOOR.
  9. PROVIDE AND INSTALL NEW CHILLED WATER ISOLATION VALVES LOCATED HIGH IN SPACE TO FACILITATE UNIT REPLACEMENT/SERVICE.
  10. NEW WALL MOUNTED ALUMINUM LOUVER SIMILAR TO GREENWICH MODEL MSD-8350C OR APPROVED EQUIV. SHALL BE INSTALLED OUTSIDE AIR DUCT TO EXTERIOR WALL. COLOR OR OTHER COLOR AS REQUIRED BY THE ARCHITECT. PROVIDE AND TRANSITION NEW CONNECTION TO NEW OUTSIDE AIR SUPPLY FAN AS SHOWN. PROVIDE BIRDSCREEN AT LOUVER. PROVIDE PLENUM DUCTWORK BEHIND DAMPER TO BE SIZED TO ALLOW LOWER COORDINATE EXACT LOUVER LOCATION AND ALL WORK WITH ARCHITECT PRIOR TO INSTALL.
  11. PROVIDE AND INSTALL NEW DIFFUSAL PRESSURE SENSOR IN OUTSIDE AIR DUCT. INTERLOCK CONTROL WITH SENSE WITH FAN.
  12. PROVIDE DUCT MOUNTED SMOKE DETECTOR. DETECTOR SHALL CONSIST OF A CLEAR MOLDED PLASTIC ENCLOSURE (OR REMOVED MOUNTED LED STATUS INDICATOR SHALL BE PROVIDED NEXT TO THE SMOKE DETECTOR) WITH INTEGRAL KNOCKOUTS TO PROVIDE VISUAL VIEWING OF DETECTOR/SENSOR FOR MONITORING SENSOR OPERATION AND CHAMBER CONDITION. THE DETECTOR HOUSING SHALL BE PROVIDED WITH GASKET SEALS TO INSURE PROPER SEATING OF THE HOUSING TO THE ASSOCIATED DUCTWORK. FOR SMOKE SAMPING TUBES SHALL END THE DETECTOR HOUSING TO BE PROVIDED WITH PORTS FOR FILTERS TO REMOVE PARTICULATE CONTAMINATION. DETECTOR SHALL BE SUPPLY WITH FORDNEY FIRE PROTECTION ASSOCIATION (NPA) SECTION NPA-72. NPA-90A, NPA-101. ACCEPTABLE MANUFACTURERS: ALCOCK, SIMPLEX, SIEMENS, NOTIFIER, GAMMELL, ULTRONICS, TYPICAL OF ALL AHU'S.
  13. NEW RETURN AIR DUCT ACROSS WALL TO DUCT. MINIMUM SIZE OF 24" BY 12" UNLESS OTHERWISE INDICATED ON PLAN. REFER TO DETAILS.
  14. PROVIDE INSTAL DUCT SILENCER IN TRANSFER TUNNEL DUCT/BOOT. REFER TO SCHEDULE AND SPECIFICATIONS.

- ## MECHANICAL GENERAL NOTES
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| 1  | ALL DUCT CROSS SECTIONS ARE INSIDE CLEAR. INCREASE AROUND WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.   |
| 2  | COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED GRILLES AND DIFFUSERS WITH LIGHT FIXTURES AND ARCHITECT'S REFLECTED CEILING PLAN.   |
| 3  | CONTRACTOR TO PROPERLY SEAL ALL NEW OR MODIFIED DUCTWORK.   |
| 4  | SHOP PRIME ALL MISCELLANEOUS INTERIOR BRACKETS AND HANGERS UNLESS GALVANIZED OR STAINLESS STEEL. ALL EXTERIOR BRACKETS, CLAMPS, AND HANGERS SHALL BE HOT DIPPED GALVANIZED. COAT ALL END AND WELD SURFACES WITH 25% ZINC GALVANIZING COMPOUND.                  |
| 5  | FIELD CONNECTIONS WITH FIELD OFFICES SHALL BE FIELD DUCTWORK AS REQUIRED.   |
| 6  | THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND DUCT SYSTEMS. |
| 7  | ALL CONSTRUCTION IS TO CONFORM TO MORE STRINGENT OF PLAN, SPECIFICATION REQUIREMENTS AND LOCAL CODES. CONFORM TO SMACNA HVAC CONSTRUCTION STANDARDS AS A MINIMUM WHERE NO OTHER SPECIFICATIONS OR CODE REQUIREMENTS APPLY.                                      |
| 8  | RETURN AIR IS THROUGH RETURN GRILLES AND BACK THROUGH RETURN AIR OPENINGS TO THE MECHANICAL ROOM. CONTRACTOR TO MAINTAIN RETURN AIR PATH. PROVIDE OPENINGS OR RETURN AIR GRILLES AS REQUIRED.   |
| 9  | ALL DUCTWORK IS FEET DOWNSTREAM OF AHU'S AND 10 FEET DOWNSTREAM OF FPP'S TO BE PROVIDED WITH KNAUF PERFORMANCE+ INTERNAL LINER OR APPROVED EQUIV.   |
| 10 | ALL TRANSFER AIR DUCTS/BOOTS TO BE PROVIDED WITH INTERNAL LINING.   |
| 11 | PROVIDE RETURN AIR BOOTS ON ALL RETURN GRILLES FOR OFFICES, CONFERENCE ROOMS, ETC ON 4TH  |