



**GENERAL NOTES**

- A. FIRESTOP ALL MECHANICAL PENETRATIONS THROUGH FIRE-RATED FLOOR AND WALL ASSEMBLIES. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND TYPE OF RATINGS. DUCT TRANSITIONS MAY NOT BE SHOWN IN DETAIL ON PLAN. REFER TO DETAILS SHEETS AND SIMONA - HVAC DUCT CONSTRUCTION STANDARDS FOR REQUIRED DUCT TRANSITIONS AND FITTINGS. ALL DUCT TAPS TO BRANCH DUCTS SHALL HAVE 45 DEGREE ENTRY FITTINGS.
- B. INSTALL FIRE DAMPERS ON ALL DUCTS PENETRATING FIRE RATED WALL ASSEMBLIES. COMPLETE WITH ACCESS DOORS. SEE STANDARD DETAIL. REFER TO ARCHITECTURAL DRAWING FOR WALL TYPES.
- C. ALL DUCTWORK SHALL BE SEALED AND INSULATED ACCORDING TO THE MECHANICAL SPECIFICATIONS.
- D. COORDINATE FINAL THERMOSTAT INSTALLATION HEIGHT AND DISTANCE FROM DOOR WITH ARCHITECT.
- E. REFER TO SPECIFICATION FOR ADDITIONAL STANDARD INSTALLATION DETAILS.
- F. DUCT INSULATION MATERIALS SHALL MEET SMOKE AND FLAME SPREAD REQUIREMENTS FOR PLENUM INSULATION.
- G. DUCT INSULATION SHALL FOLLOW THE SCHEDULES IN THE SPECIFICATION AS A MINIMUM REQUIREMENT. THESE REQUIREMENTS SHALL APPLY REGARDLESS OF WHETHER OR NOT DUCT INSULATION IS SHOWN ON THE DRAWINGS.
- H. WHERE DUCT INSULATION IS SHOWN ON THE DRAWINGS (EITHER WITH THE HATCHING CONVENTION OR BY MEANS OF A KEY NOTE) AND EXCEEDS THE REQUIREMENTS OF THE SCHEDULES IN THE SPECIFICATION, THE ADDITIONAL INSULATION REQUIREMENTS SHALL BE MET.
- I. INSTALL ALL FLOOR MOUNTED EQUIPMENT ON MINIMUM 100MM (4") THICK CONCRETE HOUSE KEEPING PADS.
- J. PROVIDE MANUAL BALANCE DAMPERS FOR EACH EXHAUST, SUPPLY, AND RETURN GRILLE WHERE AN AIR VOLUME HAS BEEN PROVIDED.
- K. INSTALL BALANCE DAMPERS AS FAR AWAY FROM GRILLES OR DIFFUSERS SERVED AS PRACTICALLY POSSIBLE.
- L. INSTALL ALL BALANCE DAMPERS IN AN EASILY ACCESSIBLE LOCATION.
- M. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF GRILLES AND DIFFUSERS.
- N. REFER TO CONTROLS SCHEMATICS FOR REQUIREMENTS FOR SENSORS, ACTUATORS AND OTHER CONTROLS COMPONENTS.

**KEY NOTES**

- 1. PROVIDE NEW THERMOSTATS ON WALL. MATCH THE LIGHT SWITCH ELEVATION.
- 2. PROVIDE NOZZLE DIFFUSERS AT HIGH LEVEL. REFER TO ARCHITECTURAL ELEVATIONS AND COORDINATE BETWEEN TRADES.
- 3. ACOUSTICALLY LINED TRANSFER ELBOW.
- 4. RETURN AIR PATH TO CEILING SPACE. GRILLE TO BE PROVIDED BY ARCHITECTURAL.
- 5. CONTINUOUS LINEAR SLOT DIFFUSER. REFER TO ARCHITECTURAL FOR COORDINATION. BALANCE EACH BRANCH TO 800 CFM. REFER TO CRAWLSPACE PLAN FOR DUCT ROUTING.
- 6. PROVIDE NEW COMBINATION TEMPERATURE, HUMIDITY, AND CARBON DIOXIDE DETECTOR. MATCH LIGHT SWITCH ELEVATION. CONTROL WIRE SHALL BE RUN THROUGH THE COLUMN AND NOT EXPOSED.
- 7. OPEN ENDED DUCT TO TERMINATE IN CEILING SPACE. BALANCE TO 1050 CFM.
- 8. PROVIDE NEW LOUVER COMPLETE WITH FULLY SEALED AND INSULATED PLENUM. PLENUM SHALL SAME DIMENSIONS AS LOUVER OPENING. CONNECT DUCTWORK TO PLENUM AND PROVIDE SEPARATE INSULATED MOTORIZED DAMPERS FOR EACH CONNECTION.
- 9. CRAWLSPACE SUPPLY AND EXHAUST FANS SHALL BE LOCATED ABOVE ACOUSTIC CEILING TILE FOR SERVICE. CONNECT ON/OFF OPERATION TO THE DDC.
- 10. INSULATE EXHAUST DUCTS A MINIMUM OF TEN FEET FROM LOUVER INTO THE SPACE.
- 11. AC UNIT TO BE WALL MOUNTED AT HIGH LEVEL IN IT ROOM. RUN REFRIGERANT LINES AT HIGH LEVEL IN CEILING SPACE TO EXTERIOR WALL. PIPES TO RUN ALONG GROUND TO OUTDOOR CONDENSING UNIT.
- 12. PROVIDE DOOR TRANSFER GRILLES IN DOOR BETWEEN IT ROOM AND STORAGE ROOM.
- 13. PROVIDE DAMPER ACTUATOR AND LINKAGE AS REQUIRED TO OPERATE MOTORIZED RELIEF DAMPER AT LOUVER.

