



1 THIRD FLOOR MECHANICAL PLAN
Scale: 1/8" = 1'-0"

MECHANICAL KEYED NOTES

- 1 NEW 2X2 CEILING SUPPLY DIFFUSER. PROVIDE NEW SPIN-COLLAR, HARD ROUND DUCTWORK AND FLEX DUCTWORK. BALANCE TO CFM INDICATED. REFER TO SCHEDULE.
- 2 NEW 2X2 CEILING SUPPLY DIFFUSER. PROVIDE NEW SPIN-COLLAR, HARD ROUND DUCTWORK, DIFFUSER TO HAVE BALANCE AT FACE CAPABILITIES. DO NOT INSTALL FLEX DUCTWORK ABOVE HARD CEILING. PROVIDE GYPSBOARD MOUNTING KIT WHEN LOCATED IN GYPSBOARD CEILING. BALANCE TO CFM INDICATED. REFER TO SCHEDULE.
- 3 NEW 1X1 CEILING SUPPLY DIFFUSER. PROVIDE NEW SPIN-COLLAR, HARD ROUND DUCTWORK, DIFFUSER TO HAVE BALANCE AT FACE CAPABILITIES. DO NOT INSTALL FLEX DUCTWORK ABOVE HARD CEILING. PROVIDE GYPSBOARD MOUNTING KIT WHEN LOCATED IN GYPSBOARD CEILING. BALANCE TO CFM INDICATED. REFER TO SCHEDULE.
- 4 NEW 2X2 CEILING RETURN GRILLE. PROVIDE GYPSBOARD MOUNTING KIT WHEN LOCATED IN GYPSBOARD CEILING. REFER TO SCHEDULE.
- 5 NEW SIDE WALL SUPPLY AIR DRUM DIFFUSER WITH SUPPLY DUCTWORK BEHIND. PROVIDE NEW SPIN-IN ALL DRUM DIFFUSERS TO BE LOCATED AT SIMILAR HEIGHT ON WALL. MOUNT ALL DRUM DIFFUSERS AS HIGH AS POSSIBLE. OPPOSED BLADE DAMPER TO BE ACCESSIBLE. THROUGH FACE OF REGISTER. DRUM DIFFUSERS TO BE PROVIDED WITH ADJUSTABLE AIR VANES. COORDINATE LOCATION WITH ARCHITECT. REFER TO SCHEDULE.
- 6 NEW THERMOSTAT/SENSOR. PROVIDE NEW CONTROL WIRING. FIELD VERIFY EXACT FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION TO AVOID CONFLICT WITH SHELVING, FURNITURE, ETC.
- 7 NEW COOLING/HEATING FAN POWERED BOX. PROVIDE NEW DDC SENSOR/STAT. REFER TO SCHEDULE AND DETAIL FOR MORE INFORMATION. MAINTAIN CLEARANCE FOR MAINTENANCE AROUND BOX.
- 8 NEW COOLING ONLY VAV BOX. PROVIDE NEW DDC SENSOR/STAT. REFER TO SCHEDULE AND DETAIL FOR MORE INFORMATION. MAINTAIN CLEARANCE FOR MAINTENANCE AROUND BOX.
- 9 NEW INDOOR WALL MOUNTED EVAPORATOR UNIT. COORDINATE FINAL LOCATION IN THE FIELD. REFER TO MECHANICAL HYDRONIC/REFRIGERANT PIPING PLANS FOR PIPE ROUTING. MAINTAIN MAINTENANCE ACCESS CLEARANCES FOR UNIT. ROUTE UNIT'S FULL SIZED CONDENSATE DRAIN LINE TO NEW INSULATED HUB DRAIN, MOP SINK OR OTHER CODE APPROVED LOCATION. PROVIDE WITH INTEGRAL CONDENSATE PUMP. PROVIDE WITH FACTORY PROGRAMMABLE THERMOSTAT.
- 10 PROVIDE AND INSTALL NEW CEILING EXHAUST FAN. PROVIDE FAN WITH BACKRAFT DAMPER. REFER TO SCHEDULE.
- 11 PROVIDE AND INSTALL NEW CHILLED WATER FAN COIL UNIT. PROVIDE NEW SUPPLY AND RETURN DUCTWORK AND ADJUSTABLE THERMOSTAT/SENSOR AS SHOWN. MAINTAIN MAINTENANCE ACCESS CLEARANCES FOR UNIT. PROVIDE TRANSITION/ELBOWS AS REQUIRED TO ROUTE DUCTWORK AS SHOWN. PROVIDE WITH INTEGRAL CONDENSATE PUMP. ROUTE UNIT'S FULL SIZED INSULATED CONDENSATE DRAIN TO MOP SINK, HUB DRAIN, FLOOR DRAIN IN MECHANICAL ROOM, OR OTHER CODE APPROVED LOCATION. PROVIDE OVERFLOW DRAIN PAN WITH FLOAT SWITCH AND LOCAL ALARM TO SHUT UNIT OFF IF WATER IS DETECTED IN PAN. PROVIDE SCREW-CAP NIPPLE FOR DRAINING OVERFLOW DRAIN PAN. PROVIDE UNIT WITH ISOLATION VALVES. REFER TO SCHEDULE, DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.
- 12 PROVIDE AND INSTALL NEW 2X2 ACCESS PANEL FOR MECHANICAL UNIT MAINTENANCE. COORDINATE IN FIELD EXACT FINAL LOCATION.
- 13 NEW WALL MOUNTED ALUMINUM LOUVER SIMILAR TO GREENHECK MODEL ESD-635DE OR APPROVED EQUAL TO BE INSTALLED AND USED FOR OUTSIDE AIR. PAINT TO MATCH 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 LOUVER TO BE SAME SIZE AS LOUVER. COORDINATE EXACT LOUVER LOCATION AND ALL WORK WITH ARCHITECT PRIOR TO INSTALL.
- 14 NEW WALL MOUNTED ALUMINUM LOUVER SIMILAR TO GREENHECK MODEL ESD-635DE OR APPROVED EQUAL TO BE INSTALLED AND USED FOR EXHAUST AIR. PAINT TO MATCH EXTERIOR WALL COLOR OR OTHER COLOR AS REQUIRED BY THE ARCHITECT. PROVIDE AND TRANSITION NEW CONNECTION TO NEW EXHAUST FANS AS SHOWN. PROVIDE BIRDSCREEN AT LOUVER. PROVIDE PLENUM DUCTWORK BEHIND LOUVER TO BE SAME SIZE AS LOUVER. COORDINATE EXACT LOUVER LOCATION AND ALL WORK WITH ARCHITECT PRIOR TO INSTALL.
- 15 NEW TRANSFER AIR DUCT/BOOT ACROSS WALL TO DECK. MINIMUM SIZE OF 24" BY 12" UNLESS OTHERWISE INDICATED ON PLAN. REFER TO DETAILS.
- 16 PROVIDE AND INSTALL NEW FIRE DAMPER AS SHOWN. PROVIDE NEW DUCT SEALING AND FIRE CAULKSEAL AROUND NEW DUCT. REFER TO DETAIL. FIELD VERIFY ALL SIZES. ALL FIRE DAMPERS INSTALLED IN NEW DUCTS TO MATCH NEW DUCTWORK SIZES.
- 17 PROVIDE AND INSTALL NEW COMBINATION FIRE/SMOKE DAMPER AS SHOWN. PROVIDE NEW DUCT SEALING AND FIRE CAULKSEAL AROUND NEW DUCT. REFER TO DETAIL. FIELD VERIFY ALL SIZES. ALL FIRE DAMPERS INSTALLED IN NEW DUCTS TO MATCH NEW DUCTWORK SIZES.
- 18 OUTSIDE AIR DUCT RISER UP THROUGH FLOOR AND LEVELS ABOVE TO ROOF INTAKE HOOD. REFER TO MECHANICAL PLANS FOR CONTINUATION.
- 19 OFFSET DUCT IN THIS VICINITY TO ACCOMMODATE PIPING IN AREA.
- 20 KITCHEN EXHAUST DUCTWORK DOWN THROUGH FLOORS TO KITCHEN/DINING ROOM TO SERVE KITCHEN HOOD. REFER TO MECHANICAL PLANS FOR CONTINUATION.
- 21 KITCHEN EXHAUST DUCTWORK UP TO POLLUTION CONTROL UNIT AND ASSOCIATED EXHAUST FAN. REFER TO ENLARGED MECHANICAL ROOM PLAN FOR ALL MECHANICAL KEYED NOTES AND INFORMATION.
- 22 PROVIDE RATED ACCESS PANEL IN DUCTWORK AND RATED CHASE IN ALL CHANGES OF DIRECTION IN DUCTWORK.
- 24 PROVIDE AND INSTALL 18 GAUGE DUCT FOR MEDIUM PRESSURE DUCTWORK WHERE INDICATED.
- 25 PROVIDE AND INSTALL MASS LOADED VINYL WRAP (MPV).
- 26 PROVIDE AND INSTALL EXTERNALLY WRAPPED LAGGING ON DUCTWORK WHERE INDICATED.

MECHANICAL GENERAL NOTES

- 1 ALL DUCT SIZES SHOWN ARE INSIDE CLEAR, INCREASE ACCORDINGLY 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 CUT ENDS AND WELDS WITH ZINC COLD GALVANIZING COMPOUND.
- 5 FIELD COORDINATE WITH STRUCTURAL, OFFSET, AND TRANSITION 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/OR 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 BOOTS AS REQUIRED.
- 9 ALL DUCTWORK IS 5 FEET DOWNSTREAM OF AHU'S AND 10 FEET DOWNSTREAM OF FPB'S TO BE PROVIDED WITH KNAUF PERFORMANCE-INTERNAL LINER OR APPROVED EQUAL.
- 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 FLOOR.