



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 GYPSUM BOARD MOUNTING KIT WHEN LOCATED IN GYPSUM BOARD 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 GYPSUM BOARD MOUNTING KIT WHEN LOCATED IN GYPSUM BOARD CEILING. BALANCE TO CFM INDICATED. REFER TO SCHEDULE.
- 4 NEW 2X2 CEILING RETURN/TRANSFER GRILLE. PROVIDE GYPSUM BOARD MOUNTING KIT WHEN LOCATED IN GYPSUM BOARD CEILING. PROVIDE RETURN/TRANSFER BOOT ON GRILLE FACING AWAY FROM FFB'S AND OTHER TRANSFER DUCTS WHERE INDICATED. REFER TO SCHEDULE.
- 5 NEW SIDE WALL SUPPLY AIR GRILLE WITH SUPPLY DUCTWORK BEHIND. PROVIDE NEW SPIN-IN. ALL SIDE WALL GRILLES TO BE LOCATED AT SIMILAR HEIGHT ON WALL. MOUNT ALL SIDE WALL GRILLES AS HIGH AS POSSIBLE. OPPOSED BLADE DAMPER TO BE ACCESSIBLE THROUGH FACE OF REGISTER. 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 UNITS 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 BACKDRAFT DAMPER. REFER TO SCHEDULE.
- 11 PROVIDE AND INSTALL NEW HOT WATER COIL. REFER TO SCHEDULE AND DETAIL. FIELD VERIFY ALL SIZES. COIL TO BE INSTALLED TO MATCH DUCTWORK SIZES. REFER TO MECHANICAL HYDRONIC PLAN FOR MORE INFORMATION.
- 12 PROVIDE AND INSTALL NEW SUPPLY AIR FAN FOR OUTSIDE AIR. FAN TO BE INTERLOCKED WITH ASSOCIATED PRESSURE SENSOR. FAN SHALL BE CONTROLLED BY VFD TO MAINTAIN MINIMUM SETPOINT FOR BUILDING PRESSURIZATION. REFER TO SCHEDULE AND DETAILS FOR MORE INFORMATION.
- 13 PROVIDE AND INSTALL NEW 2X2 ACCESS PANEL FOR MECHANICAL UNIT MAINTENANCE. COORDINATE IN FIELD EXACT FINAL LOCATION.
- 14 NEW WALL MOUNTED ALUMINUM LOUVER SIMILAR TO GREENHECK MODEL ESD-835DE 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 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.
- 15 NEW WALL MOUNTED ALUMINUM LOUVER SIMILAR TO GREENHECK MODEL ESD-835DE 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 FAN(S) 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.
- 16 NEW TRANSFER AIR DUCT BOOT ACROSS WALL TO DECK. MINIMUM SIZE OF 24" BY 12" UNLESS OTHERWISE INDICATED ON PLAN. REFER TO DETAILS.
- 17 PROVIDE NEW MOTORIZED DAMPER. DAMPER TO BE INTERLOCKED WITH ASSOCIATED MECHANICAL EQUIPMENT OPERATION. DAMPER TO BE CLOSED WHEN UNIT(S) ARE "OFF". FIELD VERIFY EXACT LOCATION.
- 18 PROVIDE AND INSTALL NEW COMBINATION FIRE/SMOKE DAMPER AS SHOWN. PROVIDE NEW DUCT SEALING AND FIRE CAULK/SEAL AROUND NEW DUCT. REFER TO DETAIL. FIELD VERIFY ALL SIZES. ALL FIRE DAMPERS INSTALLED IN NEW DUCTS TO MATCH NEW DUCTWORK SIZES.
- 19 PROVIDE AND INSTALL NEW FIRE DAMPER AS SHOWN. PROVIDE NEW DUCT SEALING AND FIRE CAULK/SEAL AROUND NEW DUCT. REFER TO DETAIL. FIELD VERIFY ALL SIZES. ALL FIRE DAMPERS INSTALLED IN NEW DUCTS TO MATCH NEW DUCTWORK SIZES.
- 20 OUTSIDE AIR DUCT RISER UP THROUGH FLOOR AND LEVELS ABOVE TO ROOF INTAKE HOOD. REFER TO MECHANICAL PLANS FOR CONTINUATION.
- 21 REFER TO ENLARGED MECHANICAL ROOM PLAN FOR ALL MECHANICAL KEYED NOTES AND INFORMATION.
- 22 REFER TO ENLARGED KITCHEN & DINING ROOM PLAN FOR ALL MECHANICAL KEYED NOTES AND INFORMATION.
- 23 CONDENSING UNIT(S) PROVIDED BY OTHERS TO SERVE COOLER(S)/FREEZER(S). COORDINATE EXACT FINAL LOCATION WITH ADJACENT EQUIPMENT. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES AROUND CONDENSER. COORDINATE ALL WORK WITH ARCHITECT.
- 24 PROVIDE AND INSTALL 18 GAUGE DUCT FOR MEDIUM PRESSURE DUCTWORK WHERE INDICATED.
- 25 PROVIDE AND INSTALL NEW INLINE SUPPLY FAN TO BE INSTALLED ABOVE CEILING TO TRANSFER AIR FROM THE ATRIUM TO VESTIBULE. FAN TO BE CONTROLLED BY TIMECLOCK TO RUN DURING OCCUPIED HOURS. REFER TO SCHEDULE AND DETAILS.
- 26 NEW TRANSFER AIR SIDEWALL GRILLE WITH DUCTWORK BEHIND. ALL SIDE WALL GRILLES TO BE LOCATED AT SIMILAR HEIGHT ON WALL. MOUNT ALL SIDE WALL GRILLES AS HIGH AS POSSIBLE. OPPOSED BLADE DAMPER TO BE ACCESSIBLE THROUGH FACE OF REGISTER. COORDINATE LOCATION WITH ARCHITECT. REFER TO SCHEDULE.
- 27 PROVIDE AND INSTALL NEW CURVED FLOWBAR TRACK SIMILAR TO TITUS FL-20 (BOARDER TYPE 22) ALONG VERTICAL SECTION OF NEW CEILING. PROVIDE RETURN HOOD/LIGHT SHIELD ALONG THE ENTIRE LENGTH OF TRACK FOR RETURN AIR. FLOWBAR TO BE FLAATTED AND SPACKLED INTO NEW CEILING SO THAT TRACK FLANGES ARE NOT VISIBLE. COORDINATE LOCATION WITH ARCHITECTURAL PLANS.

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 DIP 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 DIAGNOSTIC, 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 15 FEET DOWNSTREAM OF AHU'S AND 10 FEET DOWNSTREAM OF FFB'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.