

GENERAL HVAC NOTES

- COORDINATE GRILLE LOCATIONS WITH LIGHT FIXTURES, SPRINKLERS AND CEILING GRID.
- INDICATED DUCT SIZES ARE NET FREE AREA.
- ADJUST ALL AIR QUANTITIES AS SHOWN ON THE PLANS AFTER COMPLETION OF THE JOB.
- INSULATE THE SUPPLY GRILLE TOPS, RETURN AIR GRILLE FLENUMS AND EXHAUST AIR FLENUMS WITH 2 IN., 3/4 LB DENSITY FOIL BACKED INSULATION.
- FIRE AND/OR SMOKE DAMPERS ARE INDICATED ON MECHANICAL DRAWINGS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY LOCATIONS AND FIRE RATING REQUIREMENTS WHERE ANY DUCT PASSES THROUGH A PARTITION. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF ALL FIRE AND SMOKE PARTITIONS. VERIFY REQUIRED DAMPER ASSEMBLY IN ALL DUCTS PENETRATING THESE WALLS PER ALL STATE AND LOCAL CODES.
- EXTERNALLY INSULATE ALL ROUND SUPPLY AND RETURN DUCT. INTERNALLY INSULATE ALL RECTANGULAR SUPPLY AND RETURN DUCT PER MECHANICAL CODE. ATTACH THE INTERNAL INSULATION TO THE DUCT WITH APPROVED ADHESIVE AND WELDED FASTENERS.
- MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK WITH FIELD CONDITIONS AND PROVIDE ALL OFFSETS, BENDS, TRANSITIONS AND SPECIAL FITTINGS FOR A COMPLETE INSTALLATION OF THE SYSTEMS.
- USE FLANGED AND GASKETED DUCT CONSTRUCTION FOR RECTANGULAR DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. USE LOCKED BEAM SPIRAL DUCT CONSTRUCTION FOR ROUND DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. ALL HIGH PRESSURE DUCT CONSTRUCTION SHALL ADHERE TO SMACNA DUCT CONSTRUCTION STANDARDS (LATEST EDITION) FOR DUCT CLASSIFICATION UP TO 3 IN. W.G.
- INTERIOR OF ALL DUCT FLENUMS VISIBLE THROUGH GRILLE SHALL BE PAINTED MATTE BLACK PRIOR TO INSTALLATION.
- INTERLOCK EXHAUST FANS WITH LIGHT SWITCHES. REFER TO ELECTRICAL PLANS.
- PAINT ALL SUPPLY AND RETURN AIR GRILLES NOT SPECIFIED AS PRE-FINISHED, TO ARCHITECT'S SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
- MAINTAIN 10 FT. MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES AND ALL EXHAUST OUTLETS, GAS FLUES AND PLUMBING VENTS.
- INSTALL VOLUME CONTROL DAMPERS IN SUPPLY, RETURN, EXHAUST AND FRESH AIR BRANCH DUCT RUNS.
- REGULATING AIR SYSTEMS WITH A FAN CAPACITY GREATER THAN 2,000 NOMINAL CFM SHALL AUTOMATICALLY SHUT DOWN BY MEANS OF AN APPROVED SMOKE DETECTOR PLACED IN THE RETURN AIR STREAM PRIOR TO ANY EXHAUSTS FROM THE BUILDING OR MIXING WITH FRESH AIR MAKEUP. ALL CONTROLS SHALL BE LISTED. UPON ACTIVATION OF THE SAFETY CONTROL, THE SYSTEM SHALL NOT RESTART UNTIL THE SAFETY CONTROL IS MANUALLY RESET.
- ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE MECHANICAL CODE.
- SEAL ALL DUCT SEAMS WITH HARDCAST IRON GRIP 601 SEALANT SYSTEM OR AN APPROVED EQUAL. DUCT TAPE, WHETHER LISTED OR NOT, WILL NOT BE ACCEPTED.
- FABRICATE AND INSTALL ALL GALVANIZED DUCT SYSTEMS TO SMACNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION, AND MECHANICAL CODE.
- FABRICATE AND INSTALL AUXILIARY CONDENSATE DRAIN PAN UNDER ENTIRE AIR HANDLER WITH CONDENSATE PAN SWITCH INTERLOCKED WITH AIR HANDLER FOR SHUT DOWN WHEN CONDENSATE OVER FLOW IS SENSED.
- EVERY ATTIC OR FURRED SPACE IN WHICH MECHANICAL EQUIPMENT IS INSTALLED SHALL BE ACCESSIBLE BY AN OPENING AND PASSAGEWAY AS LARGE AS THE LARGEST PIECE OF THE EQUIPMENT AND IN NO CASE LESS THAN 22 X 36 INCHES CONTINUOUS FROM THE OPENING TO THE EQUIPMENT AND ITS CONTROLS. THE OPENING TO THE PASSAGEWAY SHALL BE LOCATED NOT MORE THAN 20 FT. FROM THE EQUIPMENT MEASURED ALONG THE CENTERLINE OF SUCH PASSAGEWAY. EVERY PASSAGEWAY SHALL BE UNOBSTRUCTED AND SHALL HAVE SOLID CONTINUOUS FLOORING NOT LESS THAN 24 IN. WIDE FROM THE EQUIPMENT, ON THE CONTROL SIDE AND OTHER SIDES WHERE ACCESS IS NECESSARY FOR SERVICING THE EQUIPMENT. A LEVEL PLATFORM EXTENDING A MINIMUM 30 IN. FROM THE EDGE OF THE EQUIPMENT WITH A 36 IN. HIGH CLEAR WALKING SPACE SHALL BE PROVIDED. TOP OR BOTTOM SERVICE EQUIPMENT SHALL HAVE A FULL CLEARANCE ABOVE OR BELOW THE UNIT FOR COMPONENT REMOVAL.
- SMOKE DETECTOR PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.
- SUPPLY AIR SYSTEMS AND RETURN SYSTEMS INSTALLED IN AN ATTIC, VENTILATED CRAWL SPACE OR OTHER NON-CONDITIONED AREA SHALL BE INSULATED.
- SPRINKLER CONTRACTOR TO BE RESPONSIBLE FOR ROUTING ALL SPRINKLER PIPING TO AVOID ALL UNCONDITIONED SPACES.
- DO NOT SCALE DIRECTLY FROM THE HVAC DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.

HVAC KEYED NOTES

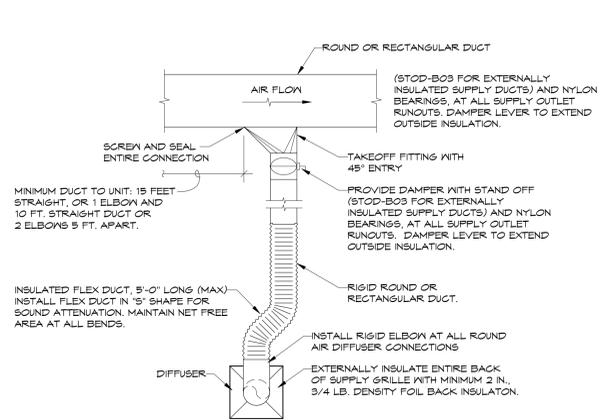
- LOCATE THERMOSTAT, CO2 SENSOR OR HUMIDISTAT AS INDICATED WITH THE CENTER OF THE THERMOSTAT AT 48" IN. ABOVE FINISHED FLOOR. SEAL ALL THERMOSTAT CONDUITS AT TOP AND BOTTOM OF CONDUIT. PROVIDE INSULATED BACKING FOR MOUNTING THERMOSTATS.

MECHANICAL LEGEND

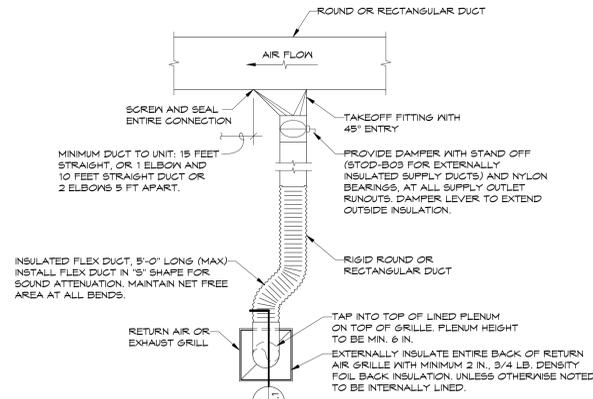
- | | |
|------------------------------------|---|
| ☒ SUPPLY DUCT SECTION | ▬ SUPPLY, RETURN, OR EXHAUST DUCT |
| ☒ RETURN OR EXHAUST DUCT SECTION | ▬ EXISTING SUPPLY, RETURN, OR EXHAUST DUCT |
| ☒ CEILING SUPPLY GRILLE | ▬ VOLUME DAMPER |
| ☒ CEILING RETURN GRILLE | ☒ FLEX DUCT CONNECTION MAXIMUM OF 5 FT. |
| ☒ CEILING EXHAUST GRILLE | ☒ SMOKE DETECTOR |
| ▬ SIDENALL SUPPLY OR RETURN GRILLE | ☒ THERMOSTAT, MOUNT AT 48" A.F.F. TO TOP (NUMBER DENOTES VAV BOX) |
| ① SEE KEYED NOTES | |

| AIR DISTRIBUTION SCHEDULE | | | | | | | | | |
|---------------------------|---------|----------------|-------|--------|-------------------------------------|--------|------------|---------------------|--|
| MARK | CFM | NECK SIZE | WFS | MODEL | TYPE | FINISH | FRAME | REMARKS/ACCESSORIES | |
| A | 75-100 | 12"x12" / 8"φ | PRICE | ASPD | FLAQUE CEILING SUPPLY | WHITE | LAY-IN | 1, 2, 4, 7 | |
| B | 105-240 | 24"x24" / 8"φ | PRICE | ASPD | FLAQUE CEILING SUPPLY | WHITE | LAY-IN | 1, 2, 4 | |
| C | 245-350 | 24"x24" / 10"φ | PRICE | ASPD | FLAQUE CEILING SUPPLY | WHITE | LAY-IN | 1, 2, 4 | |
| D | 355-450 | 24"x24" / 12"φ | PRICE | ASPD | FLAQUE CEILING SUPPLY | WHITE | LAY-IN | 1, 2, 4 | |
| E | 375 | 24"x24" / 12"φ | PRICE | ASPD | FLAQUE CEILING SUPPLY | WHITE | SURFACE | 1, 2, 4 | |
| F | 150-400 | 14" X 6" | PRICE | 22 | AIRFOIL SIDENALL SUPPLY | WHITE | SURFACE | 3, 4, 5, 6 | |
| G | 125 | 48"X4" / 8"φ | PRICE | SDS100 | 1"-2 SLOT, 4FT SLOT DIFFUSER | WHITE | SURFACE | 4, 7, 9 | |
| H | 100 | 36"X4" / 6"φ | PRICE | SDS100 | 1"-2 SLOT, CONTINUOUS SLOT DIFFUSER | WHITE | SURFACE | 4, 7, 9 | |
| J | - | 22" X 22" | PRICE | 695 | LOUVERED CEILING RETURN | WHITE | LAY-IN | 2, 4, 5, 8, 10 | |
| K | - | 20" X 20" | PRICE | 695 | LOUVERED CEILING RETURN | WHITE | SURFACE | 2, 4, 5, 7, 8, 10 | |
| L | 150 | 48"X4" / 8"φ | PRICE | SDS100 | 1"-2 SLOT, CONTINUOUS SLOT DIFFUSER | WHITE | SURFACE | 4, 7, 9 | |
| M | - | 24" X 12" | PRICE | 6102 | LOUVERED SIDENALL RETURN | WHITE | SURFACE | 3, 4, 5, 8, 11 | |
| N | - | 12" X 12" | PRICE | 6102 | LOUVERED SIDENALL RETURN | WHITE | SURFACE | 3, 4, 5, 8, 11 | |
| O | 375 | 12"φ | PRICE | RCDA | ROUND CONE SUPPLY DIFFUSER | WHITE | DUCT MOUNT | 4 | |

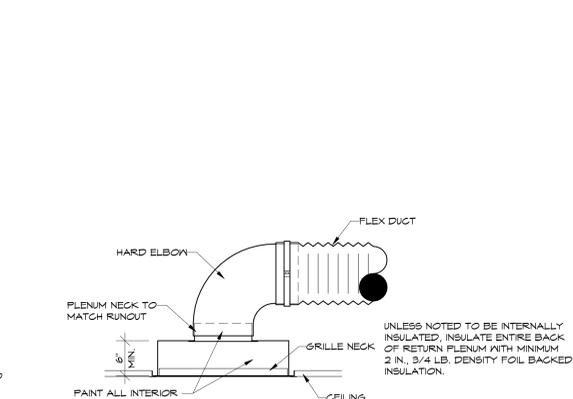
- REMARKS/ACCESSORIES
- OPPOSED BLADE DAMPERS.
 - INSULATED BACK PAN.
 - PROVIDE DOUBLE DIRECTIONAL BLADES.
 - ALUMINUM CONSTRUCTION.
 - NO SCREEN HOLES.
 - PROVIDE WITH COUNTER-SUNK SCREEN HOLES.
 - PROVIDE RAPID-MOUNT FRAME FOR GRILLES IN GYPSUM CEILINGS.
 - INSULATED FLENUM.
 - MUD IN FRAME. ACCESSORIES FOR CONTINUOUS LOCK, END CAPS. REFER TO PLANS FOR TOTAL SLOT LENGTH.
 - 45° DEFLECTION, 1/2" SPACINGS.
 - 0° DEFLECTION, 3/4" SPACINGS.



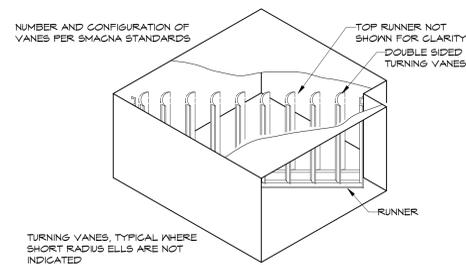
① SUPPLY DUCT CONNECTION DETAIL
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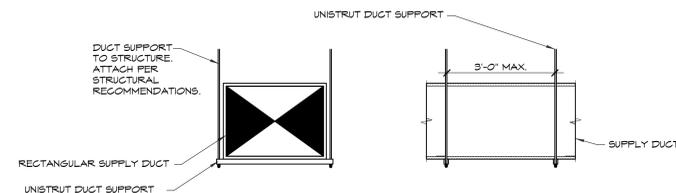
② RETURN DUCT CONNECTION DETAIL
NTS



③ RETURN GRILLE CONNECTION SECTION
NTS



④ TURNING VANE DETAIL
NTS



⑤ DUCT SUPPORT DETAIL
NTS

NOTES:
REFER TO SHEET M1.1 FOR HVAC LEGEND, SCHEDULE, DETAILS, GENERAL AND KEYED NOTES.
REFER TO SHEETS M2.1 FOR HVAC PLANS.
REFER TO SHEETS MD2.1 FOR HVAC DEMOLITION PLANS.

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HVAC NOTES, LEGEND,
DETAILS, & SCHEDULES

M1.1