



**HVAC PLAN-GYM**  
SCALE: 1/8"=1'-0"  
NORTH

**GENERAL NOTES:**

- A. ALL ROOF PENETRATIONS SHALL BE COMPLETED IN ACCORDANCE WITH ROOFING SYSTEM REQUIREMENTS AND ROOF MANUFACTURER'S INSTRUCTIONS. COORDINATE ALL WORK WITH ROOFING CONTRACTOR.
- B. CONTRACTOR SHALL VERIFY EXACT HEIGHTS OF ALL CEILING PRIOR TO START OF WORK. SEE ARCHITECTURAL SHEETS FOR DETAILS AND CONSTRUCTION. COORDINATE EXACT DUCTWORK INSTALLATION WITH CEILING & DECOR AND STRUCTURE, AS REQUIRED.
- C. SEE ELECTRICAL LIGHTING SHEETS FOR EXACT LOCATION OF ALL LIGHT FIXTURES. COORDINATE EXACT DIFFUSER AND GRILLE LOCATIONS WITH LIGHTING FIXTURES, AS REQUIRED. INSTALL AND MAINTAIN A MINIMUM OF 36" FROM LIGHT FIXTURE IN ALL OPEN AREAS WITHOUT DROP CEILING.
- D. INSTALL ALL DUCTWORK AS HIGH AS POSSIBLE WHILE COORDINATING WITH ALL OTHER TRADES. OFFSET AND TRANSITION DUCTWORK BETWEEN AND BENEATH STRUCTURAL MEMBERS, WHERE REQUIRED. DROP BRANCH DUCTS DOWN TO DIFFUSERS AND GRILLES.
- E. ALL DUCTWORK SHALL MEET SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE", CURRENT EDITION. DUCT GAUGES, REINFORCEMENTS, METHODS OF CONNECTION, TRANSITIONS AND CONSTRUCTION WILL BE FIELD-VERIFIED, MEASURED AND INSPECTED FOR COMPLIANCE. DUCTWORK NOT MEETING SMACNA'S STANDARDS WILL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE. SEE THE SPECIFICATIONS FOR THE REQUIRED PRESSURE CLASSIFICATION FOR ALL DUCTWORK. CONTRACTOR SHALL VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTALS OR DUCT FABRICATION AND GIVE WRITTEN DOCUMENTATION OF COMPLIANCE IN ORIGINAL PRODUCT SUBMITTALS.
- F. ALL DIMENSIONS ARE LISTED IN INCHES UNLESS NOTED OTHERWISE. ALL DUCTWORK DIMENSIONS ARE INSIDE CLEAR.
- G. HVAC CONTRACTOR SHALL FIELD-COORDINATE ALL CONDITIONS, UNIT LOCATIONS, OBSTRUCTIONS AND DUCTWORK INSTALLATION PRIOR TO DUCT FABRICATION, TRANSITION AND OFFSET DUCTWORK, AS REQUIRED, TO MAKE FIT IN CEILING SPACES AND FIELD CONDITIONS. DUCTWORK FABRICATED BY THE HVAC CONTRACTOR PRIOR TO FIELD COORDINATION AND CONFLICT RESOLUTION SHALL BE AT THE RESPONSIBILITY AND COST OF THE HVAC CONTRACTOR. OWNER SHALL NOT BE RESPONSIBLE FOR SHOP-FABRICATED DUCTWORK SIZED DIRECTLY FROM THE HVAC DRAWINGS.
- H. DO NOT CUT, DRILL HOLES OR REMOVE ANY PORTION OF STRUCTURAL MEMBERS, BEAMS OR PURLINS. ROUTE ALL DUCTWORK, PIPING AND CONDUIT AROUND AND THROUGH STRUCTURAL MEMBERS AS REQUIRED. SEE STRUCTURAL DETAILS AND DRAWINGS FOR EXACT METHOD OF ATTACHING HANGERS TO BEAMS AND STRUCTURAL MEMBERS.
- I. DO NOT ATTACH SCREWS, NAILS, HANGERS OR FASTENERS OF ANY TYPE TO ROOF DECK. SUPPORT ALL MECHANICAL EQUIPMENT FROM STRUCTURE AND CONTRACTOR-INSTALLED KICKERS ONLY. PROVIDE AND INSTALL INTERMEDIATE KICKERS BETWEEN PURLINS AS REQUIRED TO HANG EQUIPMENT AND SHEET METAL DUCTWORK.
- J. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL PERMANENT ENGRAVED PLASTIC-LAMINATE SIGNS WITH MINIMUM 1"-TALL LETTERING AT ALL ROOFTOP UNITS, EXHAUST FANS AND HVAC EQUIPMENT LOCATIONS THROUGHOUT ENTIRE BUILDING AND ROOFTOP. MOUNT PERMANENTLY IN AN APPROPRIATE AND EFFECTIVE LOCATION, WITH UNIT DESIGNATION AND AREA SERVED SHOWN, PRIOR TO FINAL PUNCH DATE. SEE EMS CONTROL DRAWINGS FOR LABELING OF ALL REMOTE SENSORS, THERMOSTATS AND CONTROL DEVICES.
- K. SUPPLY AND RETURN DUCTWORK FROM ROOFTOP UNITS TO BE INTERNALLY INSULATED A MINIMUM OF TEN FEET FOR SOUND ATTENUATION. ALL SUPPLY AND RETURN DUCTWORK IN SPACES ABOVE CEILING SHALL BE INSULATED PER NEW DUCT INSULATION SCHEDULE ON SHEET M6.1.
- L. ALL BRANCH DUCTS OFF MAIN DUCT TO BE INSTALLED WITH 45° TIME-AND-A-HALF FITTING, BELL-MOUTH FITTING, OR SPIN-IN ONLY. NO STRAIGHT TAPS ALLOWED.
- M. FLEXIBLE DUCT RUNS SHALL BE NO LONGER THAN 6'-0".

**KEY NOTES:**

- 1. INSTALL BRANCH DUCT OFF MAIN DUCT WITH 45° TIME-AND-A-HALF FITTING OR SPIN-IN ONLY. NO STRAIGHT TAPS ALLOWED.
- 2. NEW THERMOSTAT AND LOCKABLE COVER FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
- 3. THE SMOKE DETECTOR SHALL BE PROVIDED, WIRED, PROGRAMMED AND TESTED INCLUDING TROUBLESHOOTING BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL MOUNT THE SMOKE DETECTOR IN THE RETURN DUCT PER THE DETECTOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, INCLUDING DRILLING ALL HOLES REQUIRED FOR THE DETECTOR AND PROBES. PATCH AND SEAL DUCTWORK AIRTIGHT.
- 4. MECHANICAL CONTRACTOR SHALL PROVIDE BASE RAILS FOR MOUNTING ROOFTOP UNIT ON THE GROUND.
- 5. MECHANICAL CONTRACTOR SHALL RUN 6" EXHAUST DUCT FOR RESIDENTIAL RANGE HOOD UP THROUGH ROOF TO ROOF CAP.
- 6. MODULATE OUT DOOR AIR DAMPER TO SATISFY CO2 SENSOR.
- 7. PROVIDE DIAGONALLY BRACED METAL FRAME TO SUPPORT CONDENSING UNIT AT LEAST 12 INCHES ABOVE CONCRETE PAD TO HELP AVOID SNOW ACCUMULATION ON COILS. ANCHOR SUPPORT TO CONCRETE WITH AT LEAST FOUR (4) 3/8" ANCHORS.
- 8. BAROMETRIC RELIEF DAMPER.
- 9. FACTORY POWERED EXHAUST IN RETURN DUCT.
- 10. OUTDOOR AIR MIXING BOX.

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99U05
Date: 8/8/2018
Drawn By: JJR
Checked By: TJ
Revisions
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