



1 MECHANICAL FLOOR PLAN 1/4" = 1'-0"

GENERAL NOTES:

1. ALL WORK SHALL BE COMPLETED TO COMPLY WITH ALL APPLICABLE LOCAL AND STATE CODES AND STANDARDS.
2. PROVIDE DUCT ACCESS DOOR FOR ALL SFDRP, SDPR AND FDRP.
3. PROVIDE A VOLUME DAMPER ON ALL BRANCH DUCTWORK AND ANY RUNOUT TO A SUPPLY DIFFUSER, RETURN GRILLE OR EXHAUST GRILLE, WHETHER SHOWN OR NOT ON THE DRAWINGS.
4. ALL VOLUME DAMPERS INSTALLED ABOVE GYPSUM BOARD CEILING SHALL HAVE A REMOTELY OPERATED DAMPER.
5. PROVIDE VOLUME DAMPERS ON EACH BATHROOM EXHAUST GRILLE.
6. FULLY COORDINATE CEILING MOUNTED AIR TERMINAL DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS AND OTHER CEILING MOUNTED DEVICES PRIOR TO INSTALLATION.
7. SEE AIR DEVICE SCHEDULE FOR DIFFUSER/GRILLE NECK AND/OR DUCT CONNECTION SIZES.
8. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. MAINTAIN ALL MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES AROUND EACH PIECE OF EQUIPMENT.
9. ALL SERVICEABLE ROOF MOUNTED MECHANICAL DEVICES SHALL BE MOUNTED A MINIMUM OF 10FT AWAY FROM ANY ROOF EDGE.
10. DO NOT LOCATE ANY MECHANICAL INTAKE (I.E. ROOF OR INTAKE HOOD) WITHIN 10FT OF ANY MECHANICAL EXHAUST POINT/EXHAUST FAN.

KEY NOTES: (X)

1. 12x12 EXHAUST DUCT UP TO EF-1 ON ROOF.
2. 10x10 EXHAUST DUCT UP TO EF-2 ON ROOF.
3. ADJUSTABLE THERMOSTATS FOR ALL UNITS SHALL BE IN THE OFFICE. LOCATE REMOTE TEMPERATURE SENSORS WHERE INDICATED WITHIN EACH ZONE.
4. PACKAGED ROOFTOP UNIT ON ROOF. LOCATE ON EXISTING CURB AND PROVIDE CURB ADAPTOR AS REQUIRED. PROVIDE 1/4" CONDENSATE DRAIN WITH P-TRAP ON ROOF SLOPED MIN. 1/8" PER FT TO NEAREST ROOF DRAIN ANCHOR CURB. PER MANUFACTURER'S DETAILS, TO MEET ALL REQUIRED WIND AND SEISMIC REQUIREMENTS.
5. REMOTE TEMPERATURE SENSOR AND HUMIDITY SENSORS. LOCATE AS INDICATED. WHERE MULTIPLE ARE PROVIDED PER RTU, THE UNIT SHALL BE CONTROLLED BY A SPACE AVERAGE TEMPERATURE HUMIDISTAT. SHALL NOT BE AVERAGED BUT MONITORED TO ENSURE NO SPACE EXCEEDS 60% RH.
6. PROVIDE DUCT MOUNTED SMOKE DETECTORS IN SUPPLY AND RETURN DUCTWORK JUST BELOW UNIT. SMOKE DETECTOR SHALL BE TIED INTO THE FIRE ALARM SYSTEM AND SHALL TURN THE UNIT OFF IF COMBUSTIBLES ARE PRESENT IN THE AIRSTREAM.
7. DUCTLESS MINI-SPLIT INDOOR UNIT MOUNTED JUST ABOVE DOOR WITHIN SERVER CLOSET. COORDINATE AIRFLOW THROW WITH LOCATION OF SERVER RACK. ASSOCIATED CONDENSER LOCATED ON ROOF. MOUNT ON ROOF RACK PER DETAILS AND MANUFACTURER'S INSTRUCTIONS. UNIT MOUNTING SHALL COMPLY WITH ANTIWIND WIND AND SEISMIC REQUIREMENTS. SIZE AND INSULATE REFRIGERANT VIA MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8. ROUTE 1" SCH. 40 PVC CONDENSATE DRAIN LINE FROM PUMP UP WITHIN CEILING, TO EXTERIOR. TERMINATE IN AN PERVIOUS INCONSPICUOUS LOCATION WITH MINIMUM 12" AIR GAP. ALL HORIZONTAL CONDENSATE PIPING SHALL MAINTAIN A MIN. 1/8" SLOPE.
9. PROVIDE 8" COMMERCIAL DRYER VENT THROUGH EXTERIOR WALL. TERMINATE WITH WALL CAP AND PAINT TO MATCH EXISTING. DO NOT PROVIDE BACKDRAFT FLAPPER OR BIRD SCREEN. INSTALL PER ALL MANUFACTURER'S RECOMMENDATIONS AND MAXIMUM LINE LENGTH.
10. PROVIDE MOTORIZED DAMPER IN DRYER EXHAUST AND MAKEUP AIR DUCTWORK. INTERLOCK TO OPEN ONLY WHEN DRYER IS ON. ALL DAMPERS SHALL REMAIN CLOSED WHEN DRYERS ARE OFF.
11. PROVIDE LINT TRAP EQUAL TO SOLER & PALAU MODEL NUMBER MFL-200 FOR EACH DRYER.
12. 80,000BTUH DRYERS. MAKEUP/COMBUSTION AIR THROUGH SINGLE OPENING REQUIRES 150 INCH PER 3,000 BTUH. 80,000 / 3,000 BTUH = 26.670 INCHES OF OPENING PER DRYER. 26.670 * 2 = 53.340 INCHES OF REQUIRED. PROVIDE 12" OUTSIDE AIR DUCT FROM ROOFTOP VENTILATOR TO DRYER ROOM TO PROVIDE MAKEUP AIR WHILE DRYERS ARE IN OPERATION. PROVIDE MODULATING DAMPER TO OPEN WHEN DRYERS ARE IN OPERATION. DAMPER TO BE CLOSED WHEN DRYER IS NOT IN OPERATION.
13. GRAVITY INTAKE VENTILATOR ON ROOF EQUAL TO GREENHECK "GRS-24" ON ROOF. 12" MAKEUP AIR DUCT DOWN TO TYPE "B" GRILLE. PROVIDE MOTORIZED DAMPER INTERLOCKED WITH DRYER OPERATION IN VERTICAL DUCT RISER FROM GI TO GRILLE.
14. POINT SOURCE EXHAUST DUCT TO RUN DOWN WALL FOR MANICURE/PEDICURE TABLES. TERMINATE EXHAUST AT 8"x8" WALL MOUNTED GRILLE LOCATED APPROXIMATELY 12" AFF. COORDINATE GRILLE TYPE AND EXACT LOCATION WITH MANIPULATED CHAIR LOCATIONS AND MANUFACTURER'S INSTRUCTIONS. CHAIRS WILL UTILIZE THESE GRILLES AS THE CONNECTION POINTS FOR EACH CHAIR'S INTEGRAL EXHAUST.

NO	DATE	REMARKS

COPYRIGHT © 2019 INTERPLAN, LLC. ALL RIGHTS RESERVED. THESE DOCUMENTS TO THE ORIGINAL SET OR PORTION THEREOF WHICH WERE PREPARED, REPRODUCED, CHANGED OR ASSIGNED ARE PROHIBITED.