

SUPPLY DIFFUSER NECK / BRANCH DUCT SIZE SCHEDULE	
FLOW RATE (CFM)	NECK & BRANCH DUCT SIZE (INCHES)
0 - 100	6
101 - 225	8
226 - 400	10
401 - 650	12
651 - 1000	14
1001 - 1400	16

PROVIDE DIFFUSER NECK SIZE AND MATCHING BRANCH DUCT SIZE PER THIS SCHEDULE. DIFFUSER TYPE AND FLOW RATE SPECIFIED ON PLAN.

2 MECHANICAL PLAN
SCALE: 1/4"=1'-0"

1 MECHANICAL PLAN
SCALE: 1/4"=1'-0"

MECHANICAL PLAN NOTES:

- TYPE I GREASE HOOD EXHAUST DUCTWORK SHALL BE MINIMUM 16 GAUGE BLACK IRON WITH LIQUID TIGHT WELDS. INSTALL ACCESS PANELS FOR CLEANING AS REQUIRED BY NFPA 96 AND LOCAL CODES. TRANSITION GREASE DUCTWORK AS REQUIRED TO HOOD AND FAN CONNECTIONS. PROVIDE 45° MAX OFFSETS AS REQUIRED TO COORDINATE WITH STRUCTURE. PROVIDE RADIUS ELBOWS WITHOUT TURNING VANES. SLOPE HORIZONTAL GREASE DUCT BACK TOWARDS HOOD AT MINIMUM OF 1/4" PER LINEAL FOOT. GREASE DUCTS SHALL BE CONTAINED IN A UL APPROVED GREASE DUCT WRAP SYSTEM.
- PROVIDE 90° VANE ELBOW, TURN DOWN, AND TRANSITION TO MAKE-UP AIR PLENUM COLLAR SIZE.
- BALANCE SUPPLY AIR TO 617 CFM
- BALANCE SUPPLY AIR TO 185 CFM
- TEMPERATURE SENSORS, HUMIDITY SENSORS AND THERMOSTATS SHALL BE LABELED TO MATCH THE UNIT TAG AND CORRESPOND TO THE ELECTRICAL LEGEND IN THE ELECTRICAL PANELBOARD SERVING THE EQUIPMENT.
- PROVIDE INSULATED BACKING AT TEMPERATURE SENSOR.
- 26"x24" RETURN AIR OPENING IN TOP OF DUCT WITH 16 GAGE 1"x1" WIRE MESH.
- 16"x10" RETURN AIR OPENING IN TOP OF DUCT WITH 16 GAGE 1"x1" WIRE MESH.
- ROUTE DUCTWORK AS HIGH AS POSSIBLE. ROUTE SMALLER DUCT THROUGH JOISTS WHERE POSSIBLE.
- DO NOT ROUTE DUCTWORK OVER ELECTRICAL PANELS.
- INSTALL DIFFUSER ALONG CENTER LINE OF DUCT TO DISCHARGE AT A 22.5° ANGLE FROM HORIZONTAL TOWARDS FLOOR. ADJUST AS NECESSARY TO PREVENT DRAFTS.
- GREASE DUCT CLEANOUT LOCATION. PROVIDE ADDITIONAL CLEANOUTS PER CODE REQUIREMENTS.
- TYPE I HOODS SHALL BE FURNISHED COMPLETE WITH INTERNALLY PIPED FIRE SUPPRESSION SYSTEM AND EXTERNAL FOAM SUPPLY BOTTLES WITH REMOTE FULL CONTROLS AND IN COMPLIANCE WITH NFPA 96. DIVISION 23 SHALL COORDINATE COMPLETE INSTALLATION WITH FIRE PROTECTION CONTRACTOR TO MEET APPROVAL OF LOCAL INSPECTOR AND CODE COMPLIANCE INCLUDING TESTING.
- INSTALL UNIT THERMOSTATS IN MANAGER'S OFFICE. PROVIDE CONTROL WIRING AS REQUIRED FOR SENSOR OPERATION.
- INSTALL EXHAUST FLUE/AIR INTAKE PER MANUFACTURER'S INSTRUCTIONS.
- 4" PVC EXHAUST FLUE /AIR INTAKE UP TO CONCENTRIC VENT ON ROOF. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- PROVIDE HARD DUCT TRANSITION FROM RETURN SIZE SPECIFIED ON PLAN TO UNIT OPENING SIZE AND CONNECT WITH FLEXIBLE CONNECTOR. INSTALL 1" ACOUSTICAL LINER.
- PROVIDE HARD DUCT TRANSITION FROM SUPPLY SIZE SPECIFIED ON PLAN TO UNIT OPENING SIZE AND CONNECT WITH FLEXIBLE CONNECTOR.

FIELD VERIFICATION
Contractor shall verify all figured dimensions and conditions of the job site and notify Aris Architect, Inc. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.
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No	Date	Remarks
1	01-10-12	ISSUED FOR PERMITS
2	09-28-12	ISSUED FOR PERMITS
3	01-20-12	ISSUED FOR PERMITS
REVISIONS		

DUANE S. HENDERSON
LICENSE # 46179

Drawing Title
MECHANICAL FLOOR PLAN

Job No. 122351
Drawn JNH

Scale AS NOTED
Date 01/20/12

Sheet No.
M1.0

