

ENERGY RECOVERY VENTILATION UNIT SCHEDULE																				
ITEM	AIR CAPACITY CFM		EXTERNAL STATIC IN. WG		COOLING MODE DESIGN CONDITIONS						HEATING MODE DESIGN CONDITIONS						FILTER THICKNESS/EFFICIENCY	SUPPLY FAN HP	EXHAUST FAN HP	REMARKS
	SUPPLY	RETURN	SUPPLY	RETURN	OUTSIDE AIR		RETURN AIR		SUPPLY AIR		OUTSIDE AIR		RETURN AIR		SUPPLY AIR					
					DB 'F	WB 'F	DB 'F	WB 'F	DB 'F	WB 'F	DB 'F	WB 'F	DB 'F	WB 'F	DB 'F	WB 'F				
ERV-1	1350	1200	0.25	0.25	85.0	78.0	75.0	63.0	80.0	68.0	28.0	---	72.0	---	59.0	---	2"/30%	1.0	1.0	HORIZONTAL INDOOR UNIT
ERV-2	2700	2400	0.25	0.25	85.0	78.0	75.0	63.0	80.0	68.0	28.0	---	72.0	---	59.0	---	2"/30%	1.5	1.5	HORIZONTAL INDOOR UNIT

1. REFER TO THE ELECTRICAL DRAWINGS FOR VOLTAGE REQUIREMENTS. REFER TO SPEC SECTION 15900 FOR FURTHER INFORMATION.

SPLIT SYSTEM HEAT PUMP SCHEDULE										
OUTDOOR UNIT	INDOOR UNIT	AIR CAPACITY CFM		EXT. STATIC IN. WG	COOLING CAPACITY @ 95°F AMBIENT				ELECTRIC HEATER KW	REMARKS
		TOTAL	O.A.		TOTAL MBH	SENS. MBH	ENTERING AIR			
							DB 'F	WB 'F		
HP-1	AH-1	4500	1350	0.70	174.0	122.0	80	87	35 KW 480/3	VERTICAL AH
HP-2	AH-2	4500	1350	0.70	174.0	122.0	80	87	35 KW 480/3	VERTICAL AH
HP-3	AH-3	4500	1350	0.80	174.0	122.0	80	87	35 KW 480/3	VERTICAL AH
HP-4	AH-4	4000	1000	0.80	120.0	84.0	80	67	25 KW 480/3	VERTICAL AH
HP-5	AH-5	1200	328	0.40	34.0	26.0	80	67	6 KW 208/1	HORIZONTAL AH
HP-6	AH-6	1130	200	0.40	27.0	22.0	80	67	6 KW 208/1	HORIZONTAL AH
HP-7	AH-7	1575	200	0.40	40.0	32.0	80	67	7.5 KW 208/1	HORIZONTAL AH
HP-8	AH-8	1580	228	0.40	40.0	32.0	80	67	7.5 KW 208/1	HORIZONTAL AH
HP-9	AH-9	3900	400	0.80	115.0	80.0	80	67	25 KW 480/3	HORIZONTAL AH
HP-10	AH-10	2360	350	0.50	76.0	67.0	80	67	15 KW 480/3	HORIZONTAL AH
HP-11	AH-11	1400	150	0.40	40.0	30.0	80	67	6 KW 208/1	HORIZONTAL AH
HP-12	AH-12	800	---	0.30	24.0	16.0	80	67	3.8 KW 208/1	HORIZONTAL AH

1. REFER TO THE ELECTRICAL DRAWINGS FOR VOLTAGE REQUIREMENTS. REFER TO SPEC SECTION 15775 FOR FURTHER INFORMATION.

WALL MOUNTED HEAT PUMP SCHEDULE									
ITEM	AIR CAPACITY CFM		EXT. STATIC IN. WG	COOLING CAPACITY @ 95°F O.A.				ELECTRIC HEATER KW	REMARKS
	TOTAL	O.A.		TOTAL MBH	SENS. MBH	ENTERING AIR			
						DB 'F	WB 'F		
WHP-1 THRU WHP-17	1100	375	0.10	38.0	27.0	80	67	6 KW 480/3	MATCHING GRILLES DEHUMIDIFIER / ERV
WHP-18	1350	375	0.10	57.0	36.7	80	67	9 KW 480/3	MATCHING GRILLES DEHUMIDIFIER / ERV
WHP-19 THRU WHP-20	800	200	0.10	23.6	17.5	80	67	6 KW 480/3	MATCHING GRILLES DEHUMIDIFIER / ERV

1. REFER TO THE ELECTRICAL DRAWINGS FOR VOLTAGE REQUIREMENTS. REFER TO SPEC SECTION 15775 FOR FURTHER INFORMATION.
2. ERV EXHAUST SHALL BE 300 CFM FOR WHP-1 THRU WHP-18.

ELECTRIC HEATER SCHEDULE					
ITEM	TYPE	CAPACITY KW	AIRFLOW CFM	CONTROL	REMARKS
EH-4 THRU EH-7	CEILING HEATER	2.0 KW	280	BUILT-IN	2'x2' T-BAR PANEL
EH-8	DUCT HEATER	75 KW	5000	DUCT STAT	INSERT TYPE 40"x20" DUCT DISCHARGE TEMP AT 80 F

1. REFER TO THE ELECTRICAL DRAWINGS FOR VOLTAGE REQUIREMENTS. REFER TO SPEC SECTION 15760 FOR FURTHER INFORMATION.

FAN SCHEDULE						
ITEM	AIRFLOW CFM	EXT. STATIC IN. WG	TYPE	MAXIMUM SONE RATING	MAX. MOTOR HP	REMARKS
EF-1 EF-2	1050	0.25	IN-LINE MOUNTED CENTRIFUGAL, DIRECT DRIVE	10	1/4	RESTROOM EXHAUST MECH CONTROL PANEL
EF-3	1000/500	0.25	ROOF MOUNTED CENTRIFUGAL, DIRECT DRIVE	15	1/4	ELEC ROOM EXHAUST 2-SPEED W/THERMOSTAT
EF-4 THRU EF-8	75	0.25	CEILING MOUNTED CENTRIFUGAL, DIRECT DRIVE	3	---	RESTROOM EXHAUST LIGHT SWITCH
EF-9	300	0.25	IN-LINE MOUNTED CENTRIFUGAL, DIRECT DRIVE	8	1/6	RESTROOM EXHAUST MECH CONTROL PANEL
EF-10	375	0.25	IN-LINE MOUNTED CENTRIFUGAL, DIRECT DRIVE	8	1/6	RESTROOM EXHAUST MECH CONTROL PANEL
EF-11	2000/1000	0.25	ROOF MOUNTED CENTRIFUGAL, DIRECT DRIVE	12	1/2	ELEC ROOM EXHAUST 2-SPEED W/THERMOSTAT
EF-12	75	0.25	CEILING MOUNTED CENTRIFUGAL, DIRECT DRIVE	3	---	RESTROOM EXHAUST LIGHT SWITCH
EF-13	600/300	0.25	ROOF MOUNTED CENTRIFUGAL, DIRECT DRIVE	10	1/5	ELEC ROOM EXHAUST 2-SPEED W/THERMOSTAT
EF-14	5500	1.50	ROOF MOUNTED CENTRIFUGAL, BELT DRIVE	24	3.0	UPBLAST GREASE EXHAUST HOOD FAN SWITCH
EF-15	5000	0.50	ROOF MOUNTED CENTRIFUGAL, BELT DRIVE	20	3.0	DOWNBLAST MAKEUP AIR HOOD FAN SWITCH
EF-16	600	0.25	ROOF MOUNTED CENTRIFUGAL, DIRECT DRIVE	10	1/5	UPBLAST DISHWASHER EXHAUST WALL SWITCH
EF-17	200	0.25	CEILING MOUNTED CENTRIFUGAL, DIRECT DRIVE	3	---	DATA ROOM EXHAUST THERMOSTAT CONTROL
EF-18 EF-19	400	0.25	ROOF MOUNTED CENTRIFUGAL, DIRECT DRIVE	6	1/12	GENERAL EXHAUST THERMOSTAT CONTROL

1. REFER TO THE ELECTRICAL DRAWINGS FOR VOLTAGE REQUIREMENTS. REFER TO SPEC SECTION 15820 FOR FURTHER INFORMATION.

THRU-THE-WALL HEAT PUMP SCHEDULE									
ITEM	AIR CAPACITY CFM		EXT. STATIC IN. WG	COOLING CAPACITY @ 95°F AMBIENT				ELECTRIC HEATER KW	REMARKS
	TOTAL	O.A.		TOTAL MBH	SENS. MBH	ENTERING AIR			
						DB 'F	WB 'F		
TTW-1 THRU TTW-3	270	20	-	12.0	8.0	80	67	3.4 KW 208/1	

1. REFER TO THE ELECTRICAL DRAWINGS FOR VOLTAGE REQUIREMENTS. REFER TO SPEC SECTION 15775 FOR FURTHER INFORMATION.

AIR CONDITIONER VENTILATION UNIT SCHEDULE												
ITEM	AIRFLOW CFM	EXT. STATIC IN. WG	COOLING CAPACITY AT 95°F AMBIENT				HEATING CAPACITY			REMARKS		
			TOTAL MBH	SENS. MBH	ENTERING AIR		LEAVING AIR		HEATER KW			
					DB 'F	WB 'F	DB 'F	WB 'F				
ACV-1 ACV-2	950	0.30	74.0	40.0	85.0	78.0	55.0	54.5	20	66	14 KW 480/3	SPLIT SYSTEM W/ CONDENSING UNIT VERTICAL DISCHARGE INDOOR UNIT

1. REFER TO THE ELECTRICAL DRAWINGS FOR VOLTAGE REQUIREMENTS. REFER TO SPEC SECTION 15890 FOR FURTHER INFORMATION.

MECHANICAL LEGEND	
	SUPPLY AIR DUCT
	RETURN AIR DUCT OR EXHAUST DUCT
	DUCT TRANSITION
	X=DIFFUSER TYPE / Y=THROW
	Z=AIRFLOW, CFM
	MD MANUAL DAMPER
	FD FIRE DAMPER
	SD SMOKE DAMPER
	TURNING VANES
	FLEXIBLE DUCT CONNECTION
	THERMOSTAT
	HUMIDISTAT
	DUCT SMOKE DETECTOR
	CO2 CARBON DIOXIDE DETECTOR
	WHP WALL MOUNTED HEAT PUMP
	HP SPLIT SYSTEM HEAT PUMP
	AH SPLIT SYSTEM AIR HANDLER
	ERV ENERGY RECOVERY VENTILATION UNIT
	TTW THRU-THE-WALL HEAT PUMP
	ACV AIR CONDITIONER VENTILATION UNIT
	EH ELECTRIC HEATER
	EF EXHAUST FAN
	SF SUPPLY FAN
	AD ACCESS DOOR
	TD TRANSFER DUCT
	DIA DIAMETER
	OA OUTSIDE AIR
	UG UNDERGROUND
	W/ WITH
	AFF ABOVE FINISH FLOOR
	--- D --- HVAC DRAIN PIPING
	--- R --- REFRIGERANT PIPING



Architect Seal

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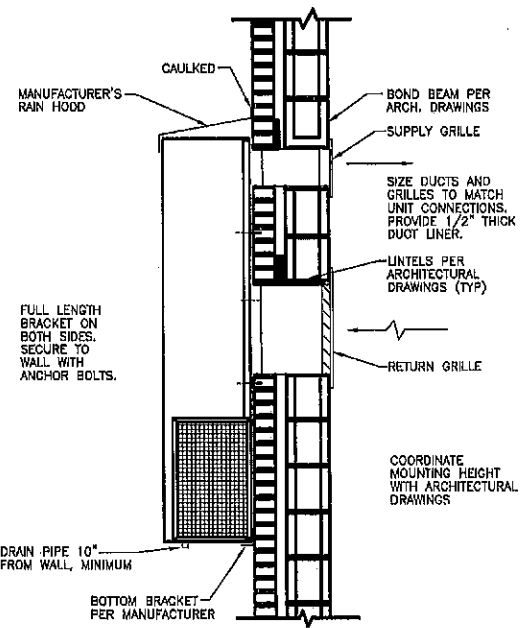
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For The BRANTLEY COUNTY BOARD OF EDUCATION
NAHUNTA, GEORGIA 31553
Drawing Title MECHANICAL SCHEDULES

Drawn: JFS
Checked: JFS
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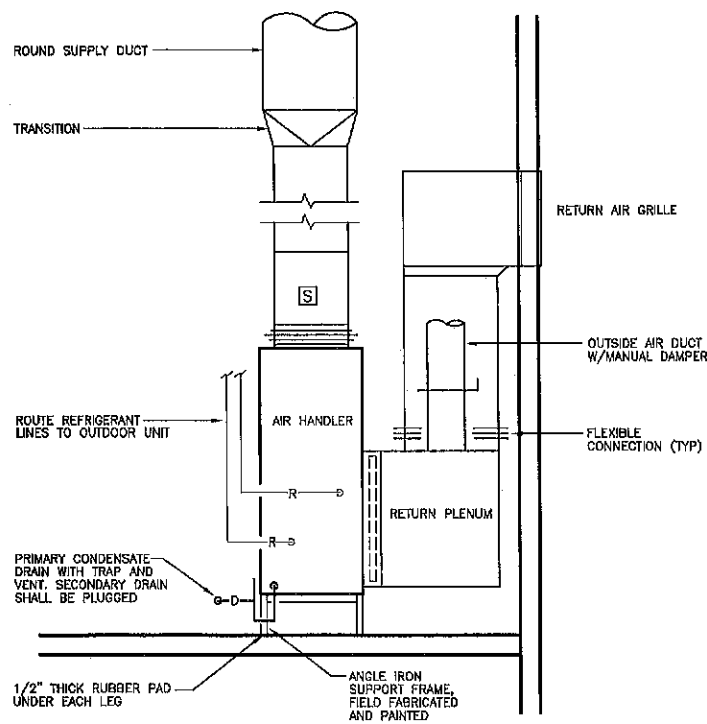
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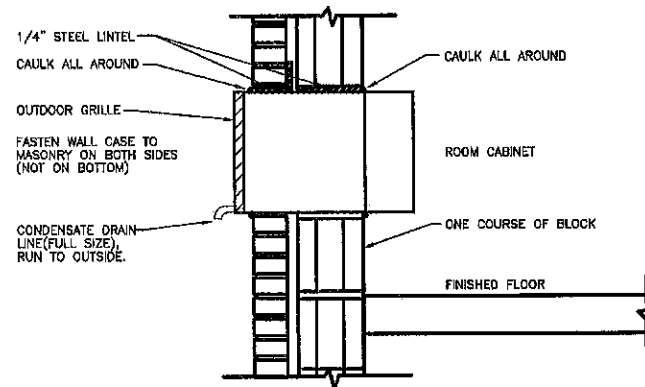


1 WALL MOUNTED HEAT PUMP INSTALLATION DETAIL
M002 NOT TO SCALE

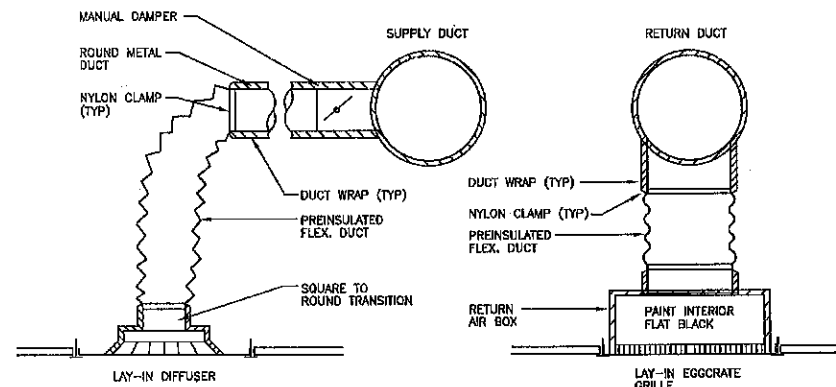


INSTALL A WATER-TIGHT GALVANIZED STEEL EMERGENCY DRAIN PAN UNDER THE UNIT. THE PAN SHALL BE 3" DEEP AND 3" WIDER THAN THE UNIT ALL AROUND. INSTALL A FLOAT SWITCH AND WIRE INTO THE CONTROL CIRCUIT.

4 VERTICAL AHU INSTALLATION DETAIL
M002 NOT TO SCALE

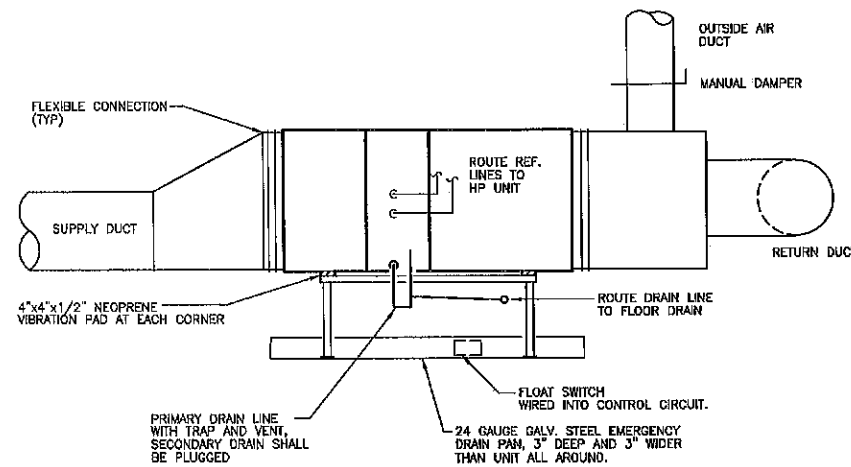


2 THRU-THE-WALL UNIT INSTALLATION DETAIL
M002 NOT TO SCALE



NOTE: INSTALL NYLON CLAMPS ON INNER FLEX DUCT LINER AND OUTER JACKET.

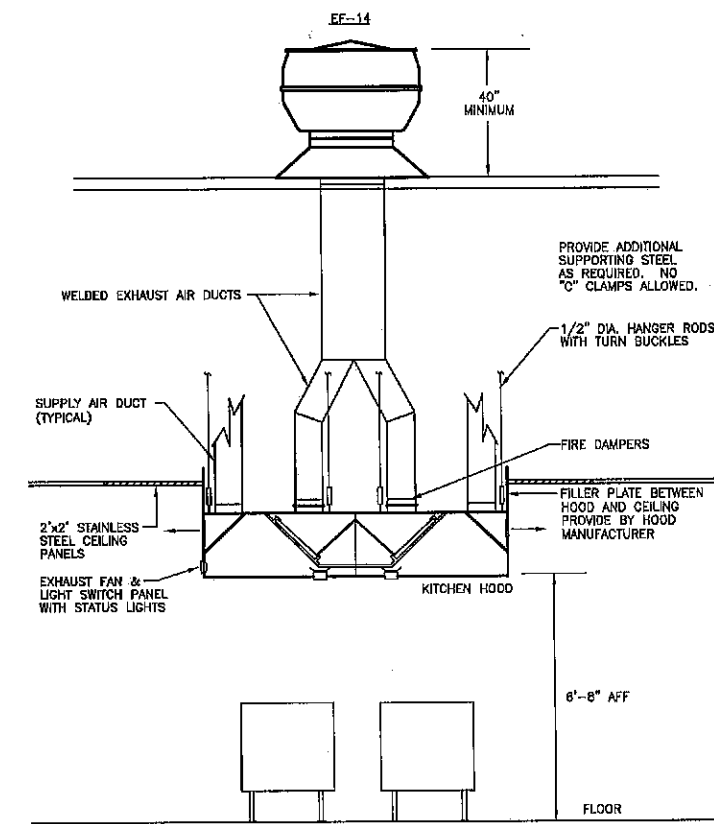
3 TYPICAL DIFFUSER/GRILLE INSTALLATION DETAIL
M002 NOT TO SCALE



5 HORIZONTAL AHU INSTALLATION DETAIL
M002 NOT TO SCALE

AIR DISTRIBUTION SCHEDULE	
DESIGNATION	DESCRIPTION
A	6"x6" NECK CEILING DIFFUSER, 2"x2' T-BAR LAY-IN PANEL
B	9"x9" NECK CEILING DIFFUSER, 2"x2' T-BAR LAY-IN PANEL
C	12"x12" NECK CEILING DIFFUSER, 2"x2' T-BAR LAY-IN PANEL
D	15"x15" NECK CEILING DIFFUSER, 2"x2' T-BAR LAY-IN PANEL
E	12"x12" NECK PERFORATED FACE DIFFUSER, LAY-IN PANEL
F	6"x6" NECK CEILING DIFFUSER, SURFACE MOUNTED
G	1'x1' EGGRATE CEILING GRILLE, SURFACE MOUNTED
H	1'x2' EGGRATE CEILING GRILLE, T-BAR PANEL
J	2'x2' EGGRATE CEILING GRILLE, T-BAR PANEL
K	46"x24" HEAVY DUTY WALL RETURN AIR GRILLE
L	72"x24" HEAVY DUTY WALL RETURN AIR GRILLE
M	10"x6" WALL EXHAUST GRILLE
N	18"x18" DOOR GRILLE, DOUBLE-SIDED

1. REFER TO SPEC SECTION 15870 FOR FURTHER INFORMATION.



NOTES:
HOOD DIMENSIONS SHALL BE 14'-0" x 11'-0". FOR EXACT LOCATION, REFER TO KITCHEN EQUIPMENT DRAWINGS.

6 KITCHEN HOOD INSTALLATION DETAIL
M002 NOT TO SCALE



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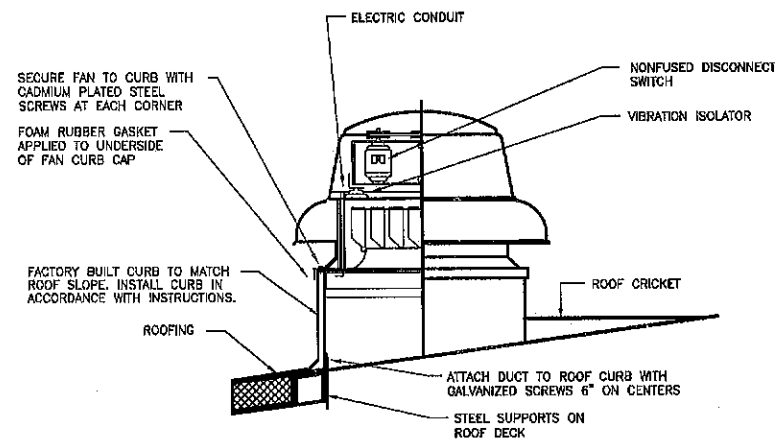
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NEW WAYNESVILLE UPPER ELEMENTARY SCHOOL
For The BRANTLEY COUNTY BOARD OF EDUCATION
NAHUNTA, GEORGIA 31553
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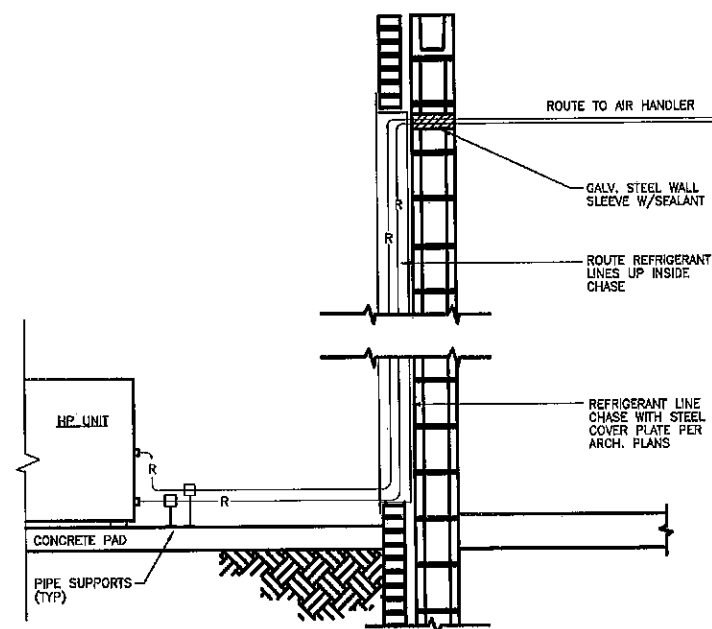


M002



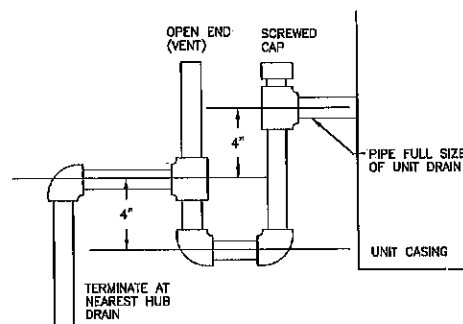
NOTE:
COORDINATE ROOF WORK WITH ARCHITECTURAL PLANS AND ROOFING CONTRACTOR.

2 ROOF MOUNTED EXHAUST FAN INSTALLATION DETAIL
M003 NOT TO SCALE



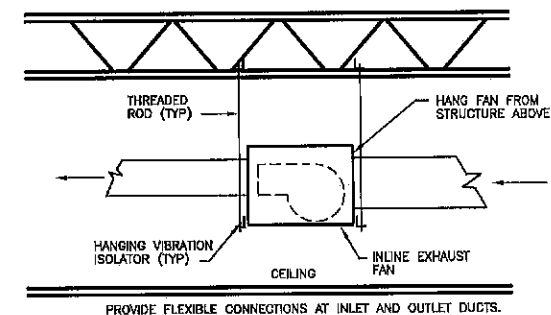
NOTES:
1. ALL PIPING SHALL BE HARD DRAWN COPPER TUBING WITH SOLDERED JOINTS.
2. SUCTION LINE INSULATION OUTDOORS SHALL BE PAINTED WITH A WEATHER-PROOF COATING. REFER TO SPECIFICATION SECTION 15775.

1 HEAT PUMP INSTALLATION DETAIL
M003 NOT TO SCALE



NOTES:
1. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
2. "RUNNING" TYPE TRAPS SHALL BE UNACCEPTABLE.

4 HVAC DRAIN TRAP DETAIL
M003 NOT TO SCALE



3 IN-LINE EXHAUST FAN INSTALLATION DETAIL
M003 NOT TO SCALE



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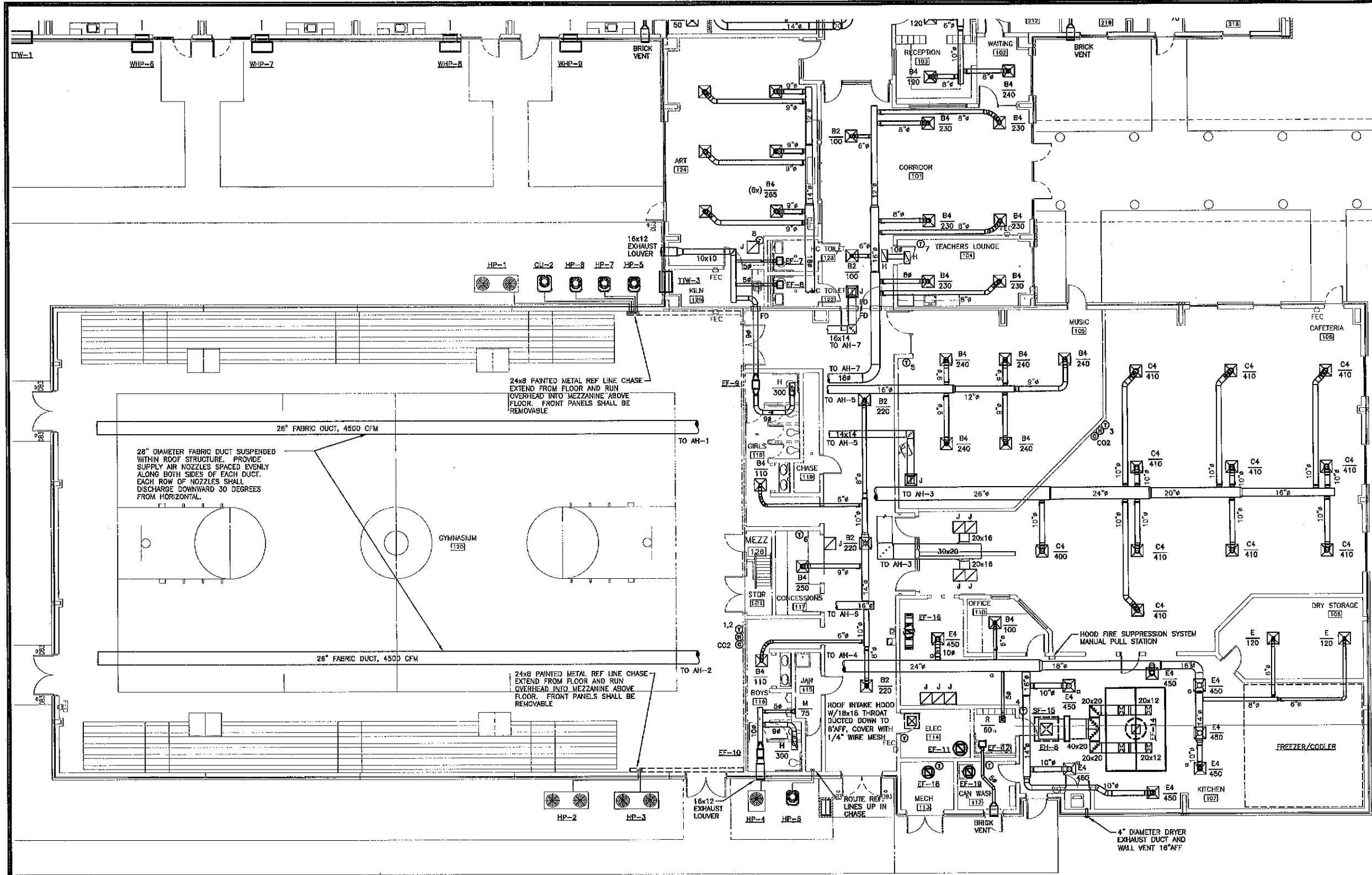
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M003



28" DIAMETER FABRIC DUCT SUSPENDED WITHIN ROOF STRUCTURE. PROVIDE SUPPLY AIR NOZZLES SPACED EVENLY ALONG BOTH SIDES OF EACH DUCT. EACH ROW OF NOZZLES SHALL DISCHARGE DOWNWARD 30 DEGREES FROM HORIZONTAL.

24x8 PAINTED METAL REF LINE CHASE EXTEND FROM FLOOR AND RUN OVERHEAD INTO MEZZANINE ABOVE FLOOR. FRONT PANELS SHALL BE REMOVABLE.

24x8 PAINTED METAL REF LINE CHASE EXTEND FROM FLOOR AND RUN OVERHEAD INTO MEZZANINE ABOVE FLOOR. FRONT PANELS SHALL BE REMOVABLE.

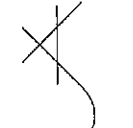
ROOF INTAKE HOOD W/18x18 THROAT DUCTED DOWN TO 8" AFF. COVER WITH 1/4" WIRE MESH.

4" DIAMETER DRYER EXHAUST DUCT AND WALL VENT 16" AFF.

1 MECHANICAL FLOOR PLAN 1
 M101 SCALE: 1/8" = 1'-0"
 SEE MECHANICAL NOTES ON SHEET M102



Architects Seal



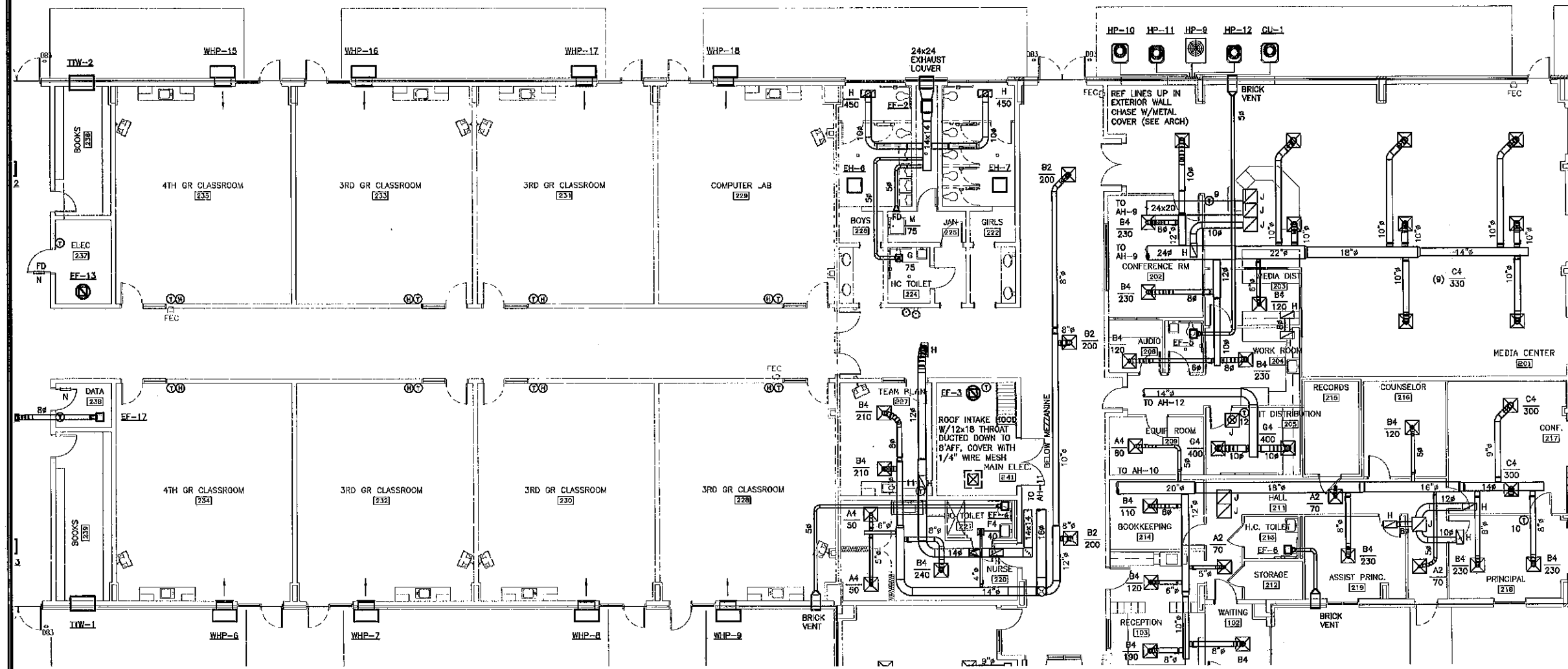
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 Drawing Title MECHANICAL FLOOR PLAN 1

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M101



1 MECHANICAL FLOOR PLAN 2
M102 SCALE: 1/8" = 1'-0"

MECHANICAL NOTES

1. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT AND LOCATIONS OF MECHANICAL WORK. THE CONTRACTOR SHALL COORDINATE THE MECHANICAL INSTALLATION WITH THE STRUCTURE AND ALL OTHER TRADES.
2. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING MOUNTED DEVICES.
3. DUCTWORK SHOWN ON THE PLANS IS SIZED AND ROUTED BASED ON INFORMATION AVAILABLE DURING THE DESIGN PHASE FOR CEILING HEIGHTS, STRUCTURAL MEMBERS, ETC. ALL DUCT SIZES AND ROUTINGS MUST BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION. WHERE CONFLICTS ARISE, REFER TO THE ENGINEER.
4. LOCATE CONTROLS FOR MECHANICAL SYSTEMS (THERMOSTATS, SENSORS, ETC.) WITHIN 12" OF NEAREST CORNER OR OPENING. DO NOT CENTER ITEMS ON WALLS. COORDINATE ACTUAL LOCATIONS WITH ARCHITECT. MOUNTING HEIGHT SHALL COMPLY WITH ADA REQUIREMENTS FOR MAXIMUM SIDE REACH (54" FROM FLOOR TO TOP OF DEVICE).
5. ALL METAL SUPPLY AIR DUCTS, VENTILATION AIR DUCTS AND ROUND RETURN AIR DUCTS SHALL BE INSULATED WITH TYPE 'A' DUCT WRAP. RECTANGULAR RETURN AIR DUCTS SHALL BE INSULATED WITH TYPE 'A' DUCT LINER. EXHAUST DUCTS SHALL NOT BE INSULATED.
6. KITCHEN HOOD EXHAUST DUCTS SHALL BE WELDED LIQUID-TIGHT PER NFPA-96. ROUTE FULL SIZE FROM HOOD COLLARS TO A 26"x26" TRUNK DUCT AND THEN UP TO THE FAN. PROVIDE MINIMUM 18" CLEARANCE TO COMBUSTIBLES.
7. DISHWASHER EXHAUST DUCTS SHALL BE WELDED STAINLESS STEEL. CONNECT THE TRUNK DUCT TO VERTICAL DUCTS PROVIDED WITH THE DISHWASHER. BALANCE INLET EXHAUST AT 200 CFM. BALANCE OUTLET EXHAUST AT 400 CFM. SLOPE DUCTS 1" PER FOOT TOWARD DISHWASHER.
8. PROVIDE 4" DIAMETER DRYER VENT IN THE KILN ROOM EXTERIOR WALL FOR CONNECTION TO A KILN EXHAUST SYSTEM.
9. MOUNT OUTDOOR UNITS ON 4" CONCRETE PADS.



Engineer's Seal

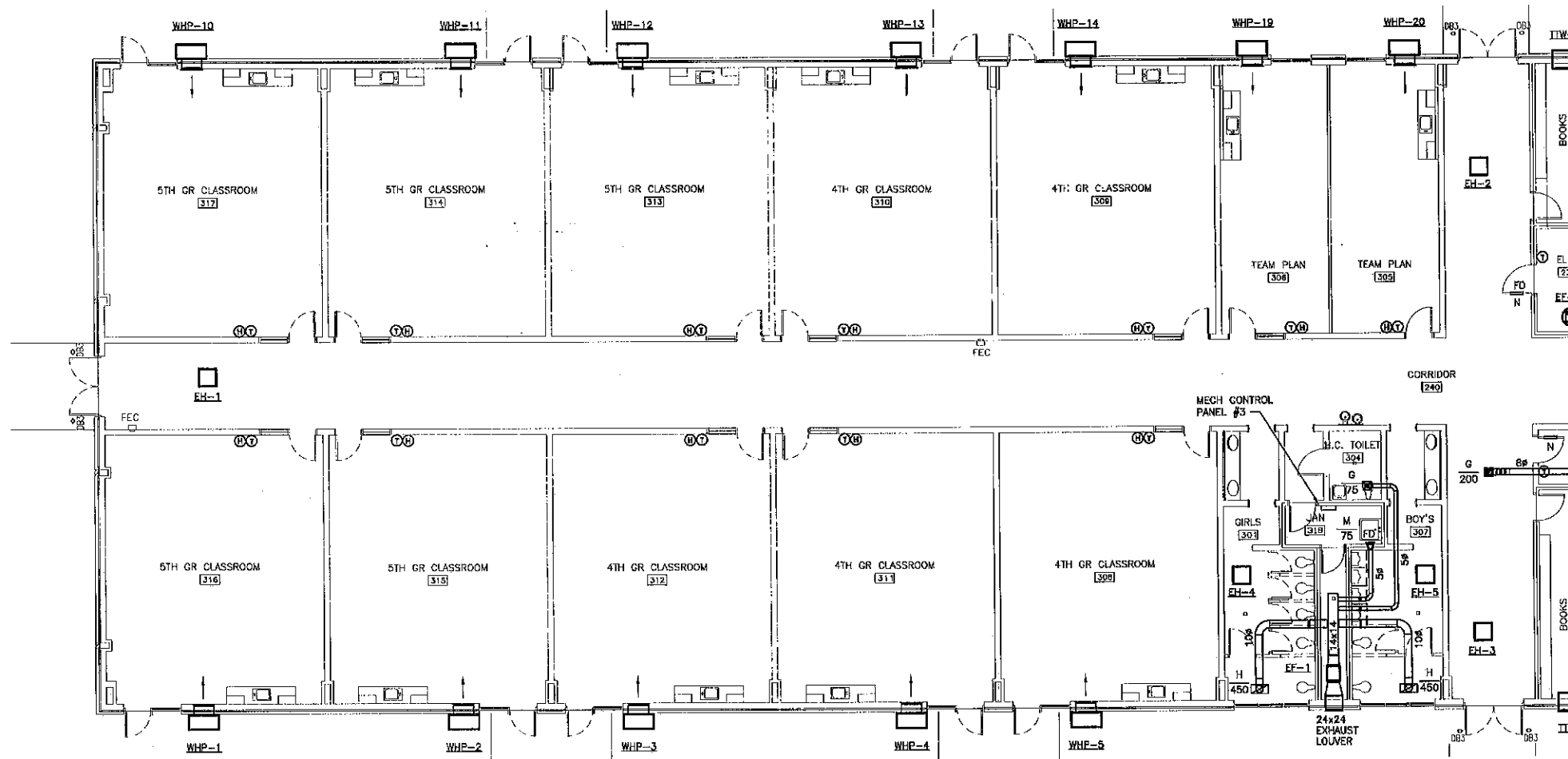
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FTE 450

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M102



1 MECHANICAL FLOOR PLAN 3
 M103 SCALE: 1/8" = 1'-0"

SEE MECHANICAL NOTES ON SHEET M102

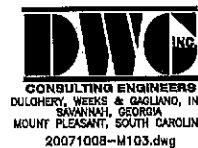


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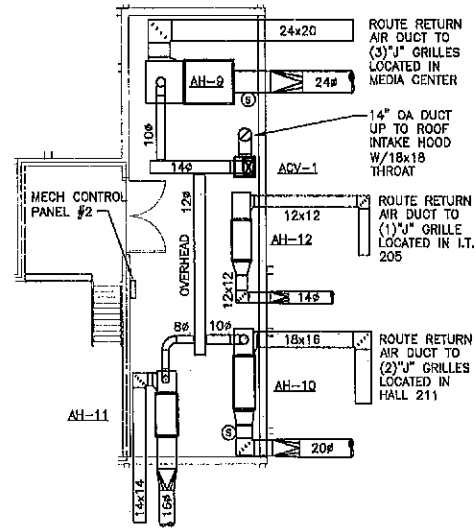
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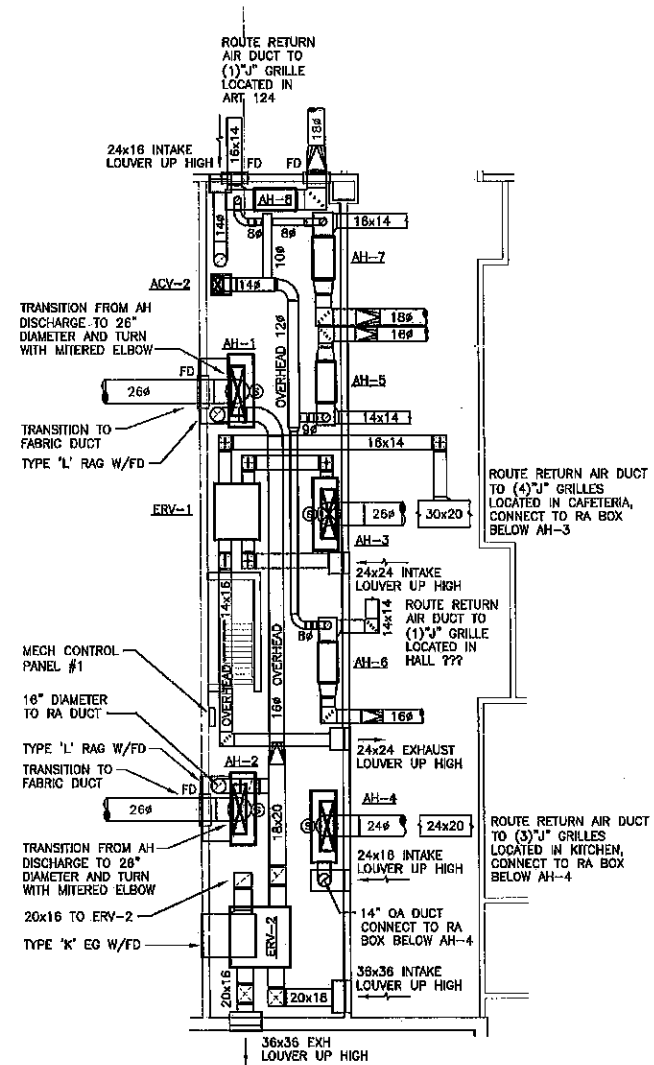


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 20071008-M103.dwg

M103



2 MECHANICAL MEZZANINE PLAN 2
M201 SCALE: 1/8"=1'-0"



1 MECHANICAL MEZZANINE PLAN 1
M201 SCALE: 1/8"=1'-0"



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FTE 450

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M201