

HVAC LEGEND	
SYMBOL	DESCRIPTION (ABBREVIATION)
N.T.S.	NOT TO SCALE
TYP.	TYPICAL
AF	ABOVE FINISHED FLOOR
	THERMOSTAT
	DUCT SECTION (SUPPLY AIR) - UP AND/OR DOWN
	DUCT SECTION (RETURN, EXHAUST, RELIEF, OUTSIDE OR COMBUSTION AIR) - UP AND/OR DOWN
	DUCT SECTION (SUPPLY AIR) - DOWN THROUGH FLOOR
	DUCT SECTION (RETURN, EXHAUST, RELIEF, OUTSIDE OR COMBUSTION AIR) - DOWN THROUGH FLOOR
	BALANCING (VOLUME) DAMPER
	DUCT WITH TURNING VANES
	RISER UP
	RISER DOWN
	SMOKE DETECTOR
	TAG NUMBER
	DIFFUSER, REGISTER OR GRILLE (SEE SCHEDULE)
	EQUIPMENT TAG (SEE SCHEDULE)

DIFFUSER, GRILLE, AND REGISTER SCHEDULE						
NO.	MANUFACTURER	MODEL	SIZE	DAMPER	FINISH	REMARKS
1	TITUS	TMS	6"ø	-	WHITE	24x24 LAY-IN
2	TITUS	TMS	8"ø	-	WHITE	24x24 LAY-IN
3	TITUS	TMS	10"ø	-	WHITE	24x24 LAY-IN
4	TITUS	TMS	12"ø	-	WHITE	24x24 LAY-IN
5	TITUS	350 RL	22x10	O.B.D.	WHITE	24x12 LAY-IN
6	TITUS	350 RL	22x22	O.B.D.	WHITE	24x24 LAY-IN
7	TITUS	350 RF2	20x8 F	-	WHITE	24x24 LAY-IN, 30% FILTER

LEGEND:
F - FILTER SIZE
O.B.D. - OPPOSED BLADE DAMPER

NOTE:
1.) ALL ARE SELECTED AT N.C. OF 25 OR LESS UNLESS OTHERWISE NOTED IN REMARKS.
2.) SEE DRAWINGS FOR CFM'S AND TYPE NUMBER.
3.) CONTRACTOR SHALL PROVIDE ALL TRANSITIONS AND PLENUM BOXES REQUIRED TO ATTACH DUCTWORK TO DIFFUSERS, GRILLES AND REGISTERS.

OUTSIDE AIR SCHEDULE					
ROOM NAME	ROOM TYPE	AREA (SQ. FT.)	VENTILATION	REQUIRED CFM	DESIGNED CFM
Zone FC-1					
Room 1A ENTRY	Office-Main Entry Lobbies	44	0 CFM / person	0	
Room 1 GENERAL OFFICE	Office	287	20 CFM / person	40	
Room 2A HD OPS MANAGER	Office	101	20 CFM / person	20	
Room 2 GENERAL MANAGER	Office	120	20 CFM / person	20	
Room 3 P&D MANAGER	Office	100	20 CFM / person	20	
Room 7 P&D/DOCK SERVICE MANAGER	Office	188	20 CFM / person	120	
Room 8 TRAINING/MEETING	Conference	302	10 CFM / person	120	
TOTAL		1142		340	340
Zone FC-2					
Room 4 SORT MANAGER	Office	100	20 CFM / person	20	
Room 5 SERVICE MANAGER CHECK-IN	Office	206	20 CFM / person	100	
Room 6 CONTRACTOR CHECK-IN	Office	58	20 CFM / person	20	
Room 9 GENERAL STORAGE	Storage	120	0.05 CFM / ft ²	6	
Room 14 JANITOR	Elec/Mech	40	0.05 CFM / ft ²	2	
Room 23 TELECOMM	Exhibit	100	15 CFM / person	0	
Room EQUIPMENT AREA	Office	195	20 CFM / person	20	
Room HALL	Corridors	156	0.05 CFM / ft ²	8	
Room 22 SECURITY EQUIPMENT (FC-3)	Elec/Mech	51	0.05 CFM / ft ²	3	
TOTAL		1026		179	200

ELECTRIC HEATING EQUIPMENT SCHEDULE								
NO.	MANUFACTURER	MODEL	DESCRIPTION	KW	VOLTS/PHASE	CAPACITY MBH	AMPS	REMARKS
WH-1	QMARK	CWH 3407	WALL HEATER	2	277/1	6.8	7.2	-

LEGEND:
MBH - 1000 BTU/HR.

REMARKS:
1.) PROVIDE UNIT WITH DISCONNECT SWITCH.
2.) PROVIDE UNIT WITH INTEGRAL THERMOSTAT.
3.) PROVIDE UNIT WITH SURFACE MOUNTING FRAME.

CONDENSING UNIT SCHEDULE									
NO.	MANUFACTURER	MODEL	TOTAL MBH	VOLTS/PHASE	MCA	MOP	FURNACE COIL MODEL NUMBER	EFFICIENCY (SEER)	REMARKS
CU-1	CARRIER	38BRC-060	60	208/1	37.4	50	CK3B 060	12	-
CU-2	CARRIER	38BRC-024	24	208/1	14.4	20	CK3B 024	12	-

LEGEND:
SEER - SEASONAL ENERGY EFFICIENCY RATIO
MBH - 1000 BTU/HR.
MCA - MINIMUM CIRCUIT AMPS
MOP - MAXIMUM OVER CURRENT PROTECTION AMPS

NOTES:
1.) COOLING PERFORMANCE SHALL BE BASED ON 105 DEG. F. AMBIENT AIR TEMPERATURE.
2.) CONDENSING UNIT(S) AND MATED AIR HANDLING UNIT(S) SHALL BE OF THE SAME MANUFACTURER.
3.) RATINGS BASED ON ARI STANDARD 365.

FURNACE SCHEDULE													
NO.	MANUFACTURER	MODEL	CFM		ESP	SUPPLY FAN MHP	VOLTS/PHASE	MCA	MOP	MINIMUM HEATING CAPACITIES		MATED CONDENSING UNIT NO.	REMARKS
			SUPPLY	O/A						OUTPUT MBH	EFFICIENCY (AFUE)		
FC-1	CARRIER	58MTA-100-20	1900	330	0.6	3/4	120/1	1.5	15	61	92.3	CU-1	-
FC-2	CARRIER	58MTA-060-12	715	130	0.5	1/3	120/1	1.5	15	37	92.3	CU-2	-

LEGEND:
AFUE - ANNUAL FUEL UTILIZATION EFFICIENCY
O/A - OUTSIDE AIR (MINIMUM)
ESP - EXTERNAL STATIC PRESSURE (INCHES OF WATER)

NOTES:
1.) FURNACES, DX COILS, AND MATED CONDENSING UNITS SHALL BE OF THE SAME MANUFACTURER.
2.) FURNACES TO BE SUPPLIED WITH THROW AWAY FILTERS AND CONCENTRIC VENT.
3.) FURNACES TO BE SUPPLIED WITH DX EVAPORATOR COILS (SEE CONDENSING UNIT SCHEDULE).
4.) FURNACES TO BE SUPPLIED WITH TWO (2) STAGES OF HEATING.

EXHAUST FAN SCHEDULE											
NO.	MANUFACTURER	MODEL	CFM	ESP	BHP	MHP	MOTOR EFFICIENCY	FAN RPM	VOLTS/PHASE	DRIVE TYPE	REMARKS
EF-1	COOK	24XLPH	4,000	0.25	0.5	3/4	HIGH	1070	480/3	BELT	1, 2, 5
EF-2	COOK	24XLPH	4,000	0.25	0.5	3/4	HIGH	1070	480/3	BELT	1, 2, 5
EF-3	COOK	24XLPH	4,000	0.25	0.5	3/4	HIGH	1070	480/3	BELT	1, 2, 5
EF-4	COOK	24XLPH	4,000	0.25	0.5	3/4	HIGH	1070	480/3	BELT	1, 2, 5
EF-5	COOK	ACE245C	4,000	0.25	0.5	3/4	HIGH	550	480/3	BELT	1, 2, 4
EF-6	COOK	ACE80C	350	0.375	0.08	1/6	HIGH	1200	120/1	BELT	1, 2, 4

LEGEND:
BHP - BRAKE HORSEPOWER
ESP - EXTERNAL STATIC PRESSURE (INCHES OF WATER)
MHP - MOTOR HORSEPOWER
W - WATTS

REMARKS:
1.) PROVIDE UNITS WITH GRAVITY BACK DRAFT DAMPER.
2.) PROVIDE UNITS WITH DISCONNECT SWITCH.
3.) PROVIDE SPEED CONTROLLER AND ROOF CAP.
4.) PROVIDE 12" HIGH ROOF CURB
5.) WALL MOUNTED.

NOTE: ALL ROOF CURBS ARE FOR STANDING SEAM METAL ROOF. COORDINATE OPENINGS AND TYPE WITH BUILDING MANUFACTURER.

