

VAV BOXES													
UNIT NO.	MANUF. NO.	CFM			ELECTRIC HEAT				FAN MOTOR			DIA	REMARKS
		MAX	MIN	HEAT	KW	V	FLA	PH	VOLTS	AMPS	HP		
VAV-FP1	45MN1005123D00100	2100	360	1265	12	480	21.88	3	277	3.1	1/2	12"	① ②
VAV-FP2	45MN1005143D00100	2800	500	1265	12	480	21.88	3	277	3.1	1/2	14"	① ②
VAV-FP3	45MN1005143D00100	2800	500	1265	12	480	21.88	3	277	3.1	1/2	14"	① ②
VAV-4	35EN1300L070P00000	710	140	710	9.5	480	14.3	3	-	-	-	7"	① ②
VAV-FP5	45MN1003083D00100	900	170	630	6	480	10.07	3	277	0.9	1/10	8"	① ②
VAV-6	35EN1300L080P00000	925	190	925	13	480	19.57	3	-	-	-	8"	① ②
VAV-7	35EN1300L090P00000	1200	240	1200	13	480	19.57	3	-	-	-	9"	① ②
VAV-FP8	45MN1005143D00100	2800	500	1265	12	480	21.88	3	277	3.1	1/2	14"	① ②
VAV-FP9	45MN1004103D00100	1450	250	630	6	480	10.75	3	277	0.9	1/4	10"	① ②
VAV-FP10	45MN1002083D00100	900	170	420	4	480	6.84	3	277	0.9	1/10	8"	① ②
VAV-FP11	45MN1005123D00100	2100	360	1265	12	480	21.88	3	277	3.1	1/2	12"	① ②
VAV-FP12	45MN1005123D00100	2100	360	1265	12	480	21.88	3	277	3.1	1/2	12"	① ②
VAV-13	35EN1300L070P00000	710	140	710	9.5	480	14.3	3	-	-	-	7"	① ②
VAV-FP14	45MN1006143D00100	2800	500	1475	14	480	24.52	3	277	4.2	1/2	14"	① ②
VAV-15	35EN1300L060P00000	520	110	520	7.5	480	11.29	3	-	-	-	6"	① ②
VAV-16	35EN1300L080P00000	925	190	925	13	480	19.57	3	-	-	-	8"	① ②
VAV-17	35EN1300L080P00000	925	190	925	13	480	19.57	3	-	-	-	8"	① ②
VAV-18	35EN1300L100P00000	1450	300	1450	16	480	24.08	3	-	-	-	10"	① ②
VAV-FP19	45MN1005123D00100	2100	360	1265	12	480	21.88	3	277	3.1	1/2	12"	① ②
VAV-FP20	45MN1002063D00100	500	52	420	4	480	6.84	3	277	0.7	1/10	6"	① ②
VAV-FP21	45MN1003103D00100	1450	250	630	6	480	10.75	3	277	0.9	1/4	10"	① ②
VAV-FP22	45MN1005123D00100	2100	360	1265	12	480	21.88	3	277	3.1	1/2	12"	① ②
VAV-FP23	45MN1005123D00100	2100	360	1265	12	480	21.88	3	277	3.1	1/2	12"	① ②
VAV-24	35EN1300L070P00000	710	140	710	9.5	480	14.3	3	-	-	-	7"	① ②
VAV-FP25	45MN1006143D00100	2800	500	1475	14	480	24.52	3	277	4.2	1/2	14"	① ②
VAV-26	35EN1300L080P00000	925	190	925	13	480	19.57	3	-	-	-	8"	① ②
VAV-FP27	45MN1004103D00100	1450	250	630	6	480	10.75	3	277	0.9	1/4	10"	① ②
VAV-28	35EN1300L100P00000	1450	300	1450	16	480	24.08	3	-	-	-	10"	① ②
VAV-FP29	45MN1002063D00100	500	52	420	4	480	6.84	3	277	0.7	1/10	6"	① ②
VAV-FP30	45MN1004103D00100	1450	250	630	6	480	10.75	3	277	0.9	1/4	10"	① ②
VAV-FP31	45MN1007163D00100	3700	650	1900	18	480	32.53	3	277	4.4	3/4	16"	① ②
VAV-FP32	45MN1007163D00100	3700	650	1900	18	480	32.53	3	277	4.4	3/4	16"	① ②
VAV-FP33	45MN1004103D00100	1450	250	630	6	480	10.75	3	277	0.9	1/4	10"	① ②
VAV-FP34	45MN1005123D00100	2100	360	1265	12	480	21.88	3	277	3.1	1/2	12"	① ②
VAV-35	35EN1300L080P00000	925	190	925	13	480	19.57	3	-	-	-	8"	① ②
VAV-FP36	45MN1004103D00100	1450	250	630	6	480	10.75	3	277	0.9	1/4	10"	① ②
VAV-37	35EN1300L060P00000	520	110	520	7.5	480	11.29	3	-	-	-	6"	① ②
VAV-FP38	45MN1004103D00100	1450	250	630	6	480	10.75	3	277	0.9	1/4	10"	① ②
VAV-39	35EN1300L090P00000	1200	240	1200	13	480	19.57	3	-	-	-	9"	① ②
VAV-FP40	45MN1005123D00100	2100	360	1265	12	480	21.88	3	277	3.1	1/2	12"	① ②
VAV-FP41	45MN1002063D00100	500	52	420	4	480	6.84	3	277	0.7	1/10	6"	① ②
VAV-42	35EN1300L050P00000	360	85	360	5	480	7.53	3	-	-	-	5"	① ②
VAV-43	35EN1300L080P00000	925	190	925	13	480	19.57	3	-	-	-	8"	① ②
VAV-FP44	45MN1004103D00100	1450	250	630	6	480	10.75	3	277	0.9	1/4	10"	① ②

NOTES:  
1.) MODEL NUMBER AND PERFORMANCE BASED ON CARRIER CO.  
2.) DISCONNECT PROVIDED BY ELECTRICIAN.

ROOFTOP UNIT SCHEDULE																						
MARK	SERVICE	MODEL	CFM	O.A. CFM	S.P. iwg.	TOTAL COOLING MBH	SENSIBLE COOLING MBH	FAN HP	COMP.		COND. FAN		GAS FURNACE		COMB. FAN FLA	ELECTRICAL			MIN. CIR. AMPS	MOCP	REMARKS	
									NO	LRA	RLA	NO	FLA	INPUT MBH		OUTPUT MBH	PH	HZ				V
RTU-1	LOWER LEVEL	48HJE014---6---HY	5000	1000	1.32	149.8	114.2	-	-	75	9	-	0.7	250	200	0.3	3	60	460	31.8	45	SEE NOTES
RTU-2	2ND FLOOR	48AKE030JD0611HT	12000	2400	2.0	371	271.2	15	4	90	11.0	2	3.3	525	430.5	-	3	60	460	91.4	110	SEE NOTES
RTU-3	3RD FLOOR	48AKE030JD0611HT	12000	2400	2.0	371	271.2	15	4	90	11.0	2	3.3	525	430.5	-	3	60	460	91.4	110	SEE NOTES
RTU-4	4TH FLOOR	48AKE030JD0611HT	12000	2400	2.0	371	271.2	15	4	90	11.0	2	3.3	525	430.5	-	3	60	460	91.4	110	SEE NOTES
RTU-5	5TH FLOOR	48AKE035JE0611HT	11400	2800	2.0	420.5	292.02	20	4	95	13.5	2	3.3	525	430.5	-	3	60	460	108.0	125	SEE NOTES

NOTES:  
1.) MODEL NUMBER AND PERFORMANCE BASED ON CARRIER CO. FACTORY BUILT ROOF TOP UNITS.  
2.) PROVIDE WITH MATCHING ROOF CURB, ECONOMIZER AND MODULATING POWER EXHAUST.  
3.) PROVIDED UNIT WITH DISCHARGE SMOKE DETECTOR FAN SHUTDOWN CAPABILITY.  
4.) EACH UNIT TO BE FURNISHED WITH CO2 SENSORS AND VFD.  
5.) DISCONNECT AND SERVICE BOX PROVIDED BY ELECTRICIAN.

AIR CONDITIONING UNIT SCHEDULE													INDOOR UNIT					OUTDOOR UNIT				
MARK	SERVICE	MODEL	COOLING CAP. MBH	CFM	S.P. iwg.	ELECTRICAL			MIN. CIR. AMPS	MAX FUSE SIZE	REMARKS	MARK	MODEL	COOLING CAP.	ELECTRICAL			MIN. CIR. AMPS	MAX FUSE SIZE	REMARKS		
						PH	HZ	V							PH	HZ	V					
AC-1	4TH FLR SERVER RM	40QAC048-3	48	1200	-	1	60	208/230	1.60	15	INTERCONNECT W/ OUTDOOR UNIT	CU-1	38HDR048-6	48	3	60	460	8.6	15	SEE NOTES		
AC-2	L.L. ELEVATOR RM	FY4ANF036000	36	1200	.375	1	60	208/230	3.0	15	INTERCONNECT W/ OUTDOOR UNIT	CU-2	38HDR036-6	36	3	60	460	7.8	15	SEE NOTES		

NOTES:  
1.) MODEL NUMBER AND PERFORMANCE BASED ON CARRIER, CO. UNITS. 3.) PROVIDE AIR HANDLING UNITS WITH FILTERS AND FILTER RACK SIZED AT 500 FPM VELOCITY. 5.) PROVIDE UNITS WITH 7-DAY PROGRAMMABLE T-STATS.  
2.) PROVIDE VIBRATION ISOLATORS AT SUPPORT POINTS. 4.) PROVIDE UNITS WITH LOW AMBIENT CONTROLS.

SPLIT SYSTEM HVAC UNIT SCHEDULE													INDOOR UNIT					OUTDOOR UNIT												
MARK	SERVES	MODEL	CFM	E.S.P. (W.C.) iwg.	HP	OUTSIDE AIR (CFM)	GAS HTG. INPUT MBH	HTG. OUTPUT MBH	COOLING COIL UNIT	COOLING COIL		ELECTRICAL			MIN. CIR. AMPS	MAX. FUSE SIZE	REMARKS	MARK	MODEL	COOLING CAP.		COMP.		ELECTRICAL			MIN. CIR. AMPS	MAX. FUSE SIZE	REMARKS	
										TOTAL MBH	SENSIBLE MBH	PH	HZ	V						NO	LRA	RLA	PH	HZ	V					
HVAC-1	FIRST FLOOR	PG9MNB060120	2000	.5	3/4	400	120	112	PNRHP06024	48.3	36.6	1	60	120	-	15	HORIZONTAL, LOW AMBIENT	ACU-1	PA13NR060	57	-	1	55	8.4	3	60	460	11.2	15	SEE NOTES
HVAC-2	FIRST FLOOR	PG9MNB060120	2000	.5	3/4	400	120	112	PNRHP06024	48.3	36.6	1	60	120	-	15	HORIZONTAL, LOW AMBIENT	ACU-2	PA13NR060	57	-	1	55	8.4	3	60	460	11.2	15	SEE NOTES
HVAC-3	FIRST FLOOR	PG9MNB060120	2000	.5	3/4	400	120	112	PNRHP06024	48.3	36.6	1	60	120	-	15	HORIZONTAL, LOW AMBIENT	ACU-3	PA13NR060	57	-	1	55	8.4	3	60	460	11.2	15	SEE NOTES
HVAC-4	FIRST FLOOR	PG9MNB060120	2000	.5	3/4	400	120	112	PNRHP06024	48.3	36.6	1	60	120	-	15	HORIZONTAL, LOW AMBIENT	ACU-4	PA13NR060	57	-	1	55	8.4	3	60	460	11.2	15	SEE NOTES
HVAC-5	FIRST FLOOR	PG9MNB060120	2000	.5	3/4	400	120	112	PNRHP06024	48.3	36.6	1	60	120	-	15	HORIZONTAL, LOW AMBIENT	ACU-5	PA13NR060	57	-	1	55	8.4	3	60	460	11.2	15	SEE NOTES
HVAC-6	L.L. STORAGE	PG9MAB024040	600	.5	1/5	0	40	37	PABNR018000	17	-	1	60	120	-	15	UPFLOW, LOW AMBIENT	ACU-6	PNRVP1814ACA	17	-	1	40	7.7	1	60	230	10.1	15	SEE NOTES

NOTES:  
1.) MODEL NUMBER AND PERFORMANCE BASED ON PAYNE MANUFACTURING BY CARRIER, CO.  
2.) PROVIDE VIBRATION ISOLATORS AT SUPPORT POINTS.  
3.) PROVIDE AIR HANDLING UNITS WITH FILTERS AND FILTER RACK SIZED AT 500 FPM VELOCITY.  
4.) PROVIDE ACCESS FOR AIR HANDLING UNITS SIZED FOR MAINTENANCE AND REMOVAL OF UNITS.  
5.) ALL DX SPLIT SYSTEM FAN COILS/REMOTE CONDENSING UNITS WITH REFRIGERATION LINES EXTENDING OVER 50 FT IN LENGTH INSTALL AND ADJUST REFRIGERATION AND OIL CHARGE PER MANUFACTURERS RECOMMENDATIONS.  
6.) DISCONNECTS PROVIDED BY ELECTRICIAN.  
7.) RUN CONDENSATE PIPING TO FLOOR DRAIN OR JAN. SINK (COORDINATE WITH PLUMBER).

**HVAC SCHEDULE**  
SCALE: NTS

BASEBOARD HTR SCHEDULE									
MARK	MODEL	WATTS	AMPS	ELECTRICAL			REMARKS		
				PH	HZ	V			
BH-1	CBD1507	1500	5.4	1	60	277	① ②		

NOTES:  
1.) MODEL AND PERFORMANCE BASED ON Q MARK CO. HEATERS ACCEPTABLE ALTERNATES FROM MARKEL CO. OR RAYWALL CO.

WALL HTR SCHEDULE									
MARK	MODEL	WATTS	AMPS	ELECTRICAL			REMARKS		
				PH	HZ	V			
WH-1	AWH-4407	4000	14.5	1	60	277	① ②		

NOTES:  
1.) MODEL AND PERFORMANCE BASED ON Q MARK CO. HEATERS ACCEPTABLE ALTERNATES FROM MARKEL CO. OR RAYWALL CO.  
2.) THERMOSTAT BUILT-IN.

CEILING HTR SCHEDULE									
MARK	MODEL	WATTS	AMPS	ELECTRICAL			REMARKS		
				PH	HZ	V			
CH-1	QCH-1207	2000	7.2	1	60	277	SEE NOTES		

NOTES:  
1.) MODEL AND PERFORMANCE BASED ON Q MARK CO. HEATERS ACCEPTABLE ALTERNATES FROM MARKEL CO. OR RAYWALL CO.  
2.) THERMOSTAT BUILT-IN.

FAN SCHEDULE												
MARK	SERVICE	FAN TYPE	CFM	E.S.P. (IN. W.G.)	FAN RPM	FAN MOTOR HP	ELECTRICAL			REMARKS		
							PH	HZ	V			
EF-1	LOWER LEVEL	CUBE131-5	1800	0.625	1562	1/2	1	60	120	OPERATED BY TIME CLOCK	① ② ③	
EF-2	1ST-5TH FLOORS	CUBE180-15	4120	0.625	1237	1.5	3	60	460	OPERATED BY TIME CLOCK	① ② ③	
EF-3	KITCHEN (EXISTING CARNES)	VBBB24WOC5R12C3	-	-	-	-	3	60	208	-	② ③	
EF-4	L.L. LOCKER ROOMS	L200	196	0.25	740	131W	1	60	120	OPERATED BY WALL SWITCH	② ③ ④	
EF-5	L.L. LOCKER ROOMS	L150	141	0.25	710	102W						