

VAV BOX SCHEDULE															
UNIT NUMBER	TRANE MODEL	SERVICE	VAV BOX				ELECTRIC REHEAT COIL							NOTES	
			PRIMARY VALVE:		AIR MAX PD	NOISE MAX NC	DUCT CONNECTIONS:		OVERALL SIZES: (LxWxH)	CFM	MBH	FLA	MCA		MAX FUSE SIZE
			CFM MIN	CFM MAX			INLET	OUTLET (WxH)							
VAV-1	VCCF-06	STAIR NO.2	175	290	0.07	16	6"	10x8	15.5"x17"x9.5"	NA	NA	NA	NA	NA	SERVES RTU-1
VAV-2	VCCF-06	CONF RM. 311	220	360	0.11	19	6"	10x8	15.5"x17"x9.5"	NA	NA	NA	NA	NA	SERVES RTU-1
VAV-3	VCCF-05	PAT. TLT. 310 STAFF TLT. 312	165	165	0.01	15	5"	10x8	17.25"x17"x9.5"	NA	NA	NA	NA	NA	SERVES RTU-1
VAV-4	VCCF-06	EXAM RMS. 307, 308, 309	210	345	0.10	19	6"	10x8	15.5"x17"x9.5"	NA	NA	NA	NA	NA	SERVES RTU-1
VAV-5	VCCF-05	PAT. CONF. 306	150	250	0.05	15	6"	10x8	15.5"x17"x9.5"	NA	NA	NA	NA	NA	SERVES RTU-1
VAV-6	VCCF-05	PAT. CONF. 305	100	160	0.01	15	5"	10x8	17.25"x17"x9.5"	NA	NA	NA	NA	NA	SERVES RTU-1
VAV-7	VCCF-10	WAITING RM. 304	500	845	0.01	20	10"	14x12	16"x21"x13.5"	NA	NA	NA	NA	NA	SERVES RTU-1
VAV-8	VCCF-08	MD OFFICES 324 & 325	290	480	0.02	16	8"	11x10	16"x18"x11.5"	NA	NA	NA	NA	NA	SERVES RTU-2
VAV-9	VCCF-08	MD OFFICES 326 & 327	290	480	0.02	16	8"	11x10	16"x18"x11.5"	NA	NA	NA	NA	NA	SERVES RTU-2
VAV-10	VCCF-08	STAFF LOUNGE 328	175	440	0.02	15	8"	11x10	16"x18"x11.5"	NA	NA	NA	NA	NA	SERVES RTU-2
VAV-11	VCCF-08	MD OFFICES 329, 330 & 331	315	525	0.03	17	8"	11x10	16"x18"x11.5"	NA	NA	NA	NA	NA	SERVES RTU-2
VAV-12	VCCF-05	RECEPTION 317	100	170	0.01	15	5"	10 x 8	17.25"x17"x9.5"	NA	NA	NA	NA	NA	SERVES RTU-3
VAV-13	VCCF-05	NURSES OFFICE 315 & 316	130	220	0.01	16	5"	10 x 8	17.25"x17"x9.5"	NA	NA	NA	NA	NA	SERVES RTU-3
VAV-14	VCCF-05	MEDICAL RECORDS 334	100	170	0.01	15	5"	10 x 8	17.25"x17"x9.5"	NA	NA	NA	NA	NA	SERVES RTU-3
VAV-15	VCCF-06	MANAGER 332 N & W CORR.	160	265	0.06	15	6"	10 x 8	15.5"x17"x9.5"	NA	NA	NA	NA	NA	SERVES RTU-3
VAV-16	VCCF-08	STAIR NO. 1 ELEV LOBBY	270	450	0.02	16	8"	11 x 10	16"x18"x11.5"	NA	NA	NA	NA	NA	SERVES RTU-3
VAV-17	VCCF-10	OPEN WORK 323 SOUTH CORR.	550	685	0.01	15	10"	14x12	16"x21"x13.5"	NA	NA	NA	NA	NA	SERVES RTU-3
VAV-17A	VCCF-12	OPEN WORK 323 SOUTH CORR.	860	1,435	0.04	26	12"	17 x 14	47.5"x22.5"x15.5"	860	15.4 MBH 4.5 KW	12.49	15.61	20	SERVES RTU-3A, BID ALT. NO. 2 208V/3P, 2 STAGE

NOTES: VAV-17A (BID ALTERNATE NO. 2) PROVIDE WITH 24V TRANSFORMER, MERCURY CONTACTORS, AIRFLOW SWITCH AND FACTORY WIRED DISCONNECT SWITCH. SEE DWG. M10.3 GENERAL NOTES 5 & 6.

CABINET UNIT HEATER SCHEDULE (ELECTRIC)																			
UNIT NO.	MANUFACTURER	MODEL	SERVICE	KW OUTPUT	BTUH OUTPUT	CFM	FAN SPEED	TEMP RISE	ELECTRIC				MAX FUSE	DIMENSIONS LxWxH	RECESS	MOUNTING AFF (IN)	MTG TYPE	ARRANGEMENT	NOTES
									HP	PHASE	VOLTS	MCA							
ECUH-1	TRANE	FORCEFLOW-030	STAIR NO. 1, 1ST FLR.	4.4	15,390	233	HI	60.9	.040	3	208	16.1	20	47"x10"x30"	9.75"	8	WALL	VERTICAL RECESSED	1, 3
ECUH-2	TRANE	FORCEFLOW-040	STAIR NO. 2, 1ST FLR.	5.7	19,230	318	HI	56	.050	3	208	20.2	25	38"x10"x25"	-	-	WALL	VERTICAL SURFACE	2, 3

NOTES: 1. FRONT-TOP OUTLET, FRONT BOTTOM INLET. 2. FRONT TOE SPACE INLET, FRONT TOP INLET. 3. UNIT MOUNTED DISCONNECT SWITCH.

FAN SCHEDULE																	
FAN NUMBER	MANUFACTURER	MODEL	SERVICE	CFM	EXT. STATIC PRESSURE (IN. H2O)	RPM	SONES	TEMP RISE	ELECTRIC				MOTOR CONTROL	INTERLOCK	DRIVE	DISCHARGE DAMPER	NOTES
									HP	PHASE	VOLTS	MCA					
EF-1	GREENHECK	CUE-090-D	TOILET RMS	400	0.60	1,550	12.4	1/15	1	115	ATC	DAMPER END SWITCH	DIRECT	MOTORIZED, 120V	1, 2, 3, 4, 7		
EF-2	GREENHECK	SQ-90-D	ELEVATOR MACH. RM.	200	.375	1,317	5.5	1/12	1	115	THERMOSTAT	NA	DIRECT	NONE	1, 2, 5, 6, 7		
EF-3	GREENHECK	BDF-180-20	1ST PARKING GARAGE	5,000	1.0	619	16.9	2.0	3	208	ATC	NA	BELT	NONE	1, 6, 8, 9, 10		

NOTES: 1. NEMA 1 TOGGLE SWITCH, MOUNTED AND WIRED. 2. SOLID STATE SPEED CONTROL. 3. 12" HIGH INSULATED CURB. 4. 120V DAMPER WITH END SWITCH. 5. INSULATED FAN HOUSING. 6. NEOPRENE HANGING ISOLATORS AND BRACKETS. 7. MOTOR WITH THERMAL OVERLOADS. 8. TOP HORIZONTAL DISCHARGE. 9. 1/2" INSULATED FAN HOUSING. 10. TWO GROOVE PULLEY AND BELT SYSTEM.

DUCTLESS AIR CONDITIONING AND HEAT PUMP UNIT SCHEDULE																	
UNIT NO.	MFR. & MODEL	SERVICE	COOLING CAPACITY, BTUH		HEATING CAPACITY, BTUH		INDOOR UNIT				OUTDOOR UNIT				PIPING SIZES		NOTES
			TOTAL	SENSIBLE	TOTAL	CFM HI/LOW	VOLTS	PHASE	MA	MAX FUSE SIZE	VOLTS	PHASE	MA	MAX FUSE SIZE	LIQUID	SUCTION	
AC-1	PK12FK	3RD TEL-DATA	12,500	10,000	NA	320-440	115	1	1	15	208	1	11	15	3/8	5/8	1, 2, 3
HP-2	MS209UN	2ND PA RM	8,800	6,200	12,300	150-280	115	1	0.5	15	208	1	14	15	1/4	3/8	4, 5, 6

1. OUTDOOR UNIT SHALL BE CAPABLE OF OPERATING DOWN TO 0 F WITH NO REDUCTION IN CAPACITY AND -20 F WITH SLIGHT REDUCTION IN CAPACITY. 2. PROVIDE WPBCE2 WIND BAFFLE. 3. PROVIDE EE 1750-115 MINI-CONDENSATE PUMP. SHIPPED LOOSE FOR FIELD MOUNTING. 4. PROVIDE WITH 110V MINI-CONDENSATE PUMP. 5. UNIT SHALL BE CAPABLE OF OPERATING DOWN TO -20 F WITHOUT CUTTING OUT ON LOW TEMP. 6. HEATING CAPACITY AT 15 F OUTDOOR AIR TEMPERATURE SHALL BE 7.6 MBH.

PACKAGED TERMINAL HEAT PUMP																		
UNIT NO.	MFR. & MODEL	SERVICE	COOLING PERFORMANCE					HT PUMP REVERSE CYCLE HEATING PERFORMANCE					HT PUMP ELECTRIC HEATING PERFORMANCE					NOTES
			BTUH	CFM HI/LOW	VOLTS	PHASE	AMPS	BTUH	CFM HI/LOW	VOLTS	PHASE	AMPS	BTUH	KW	VOLTS	PHASE	AMPS	
PTHP-1	TRANE PTHD 0901J	1ST FLR ELEVATOR LOBBY	9,300	240/190	208	1	4.1	8,200	240/190	208	1	3.4	14,000	4.1	208	1	19.9	1, 2, 3, 4
PTHP-2	TRANE PTHD 0901J	2ND FLR ELEVATOR LOBBY	9,300	240/190	208	1	4.1	8,200	240/190	208	1	3.4	14,000	4.1	208	1	19.9	1, 2, 3, 4
PTHP-3	TRANE PTHD 0901J	2ND FLR STAIR LOBBY	9,300	240/190	208	1	4.1	8,200	240/190	208	1	3.4	14,000	4.1	208	1	19.9	1, 2, 3, 4

NOTES: 1. WALL SLEEVE. 2. ANODIZED ALUMINUM HORIZONTAL LOUVER ARCHITURAL GRILLE. 3. PREWIRED SUBBASE WITH RECEPTACLE AND LEVELING LEGS. 4. CONTROL COVER KEY LOCK.

PACKAGED ROOFTOP UNIT SCHEDULE																												
UNIT #	MFR	MODEL	FAN SECTION					COOLING CAPACITY					HEATING CAPACITY					ELECTRICAL				FILTER SECTION		UNIT WEIGHT	NOTES			
			SUPPLY CFM	OUTDOOR CFM	EXTERNAL S.P.	TOTAL S.P.	RPM	EAT (F)	EAT (F)	TOTAL MBH	SENSIBLE MBH	AMBIENT COND TEMP (F)	INPUT MBH	OUTPUT MBH	FUEL TYPE	MIN/MAX PRESSURE	VOLTS	PHASE	MAX FUSE SIZE	MCA	FILTER SIZE	EFFICIENCY						
			HP	BHP	PH	VOLTS	HP	PH	VOLTS	HP	PH	VOLTS	HP	PH	VOLTS	HP	PH	VOLTS	HP	PH	VOLTS							
RTU-1	TRANE	YSC060A3	2,020	400	1.0	NA	1,262	1.0	1.5	3	208	75.6	63.5	58.3	44.8	95	130	104	NAT GAS	4.5/14	208	3	50	31.5	20x20"x25"x2"	30%	700	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
RTU-2	TRANE	YSC060A3	1,800	400	1.0	NA	1,198	1.0	1.2	3	208	75.4	63.0	56.3	43.4	95	130	104	NAT GAS	4.5/14	208	3	50	31.5	20x20"x25"x2"	30%	700	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
RTU-3	TRANE	YSC060A3	1,965	360	1.0	NA	1,258	1.0	1.5	3	208	75.8	63	57.5	46.0	95	130	104	NAT GAS	4.5/14	208	3	50	31.5	20x20"x25"x2"	30%	700	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
RTU-3A	TRANE	YSC072A3	2,650	360	1.1	NA	1,033	2.0	1.5	3	208	74.7	60.9	64.5	59.1	95	150	121.5	NAT GAS	4.5/14	208	3	50	34	40x16"x25"x2"	30%	1,000	1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12

NOTES: 1. DOWNFLOW AIR FLOW SUPPLY AND RETURN CONFIGURATION. 2. THROUGH THE BASE ELECTRICAL WITH DISCONNECT SWITCH. 3. THROUGH THE BASE GAS PIPING - FACTORY PIPED WITH MANUAL GAS SHUT-OFF VALVE, ELBOWS AND UNION. 4. ECONOMIZER - FULLY MODULATING 0-100%, MOTOR AND DAMPERS, BROMETRIC RELIEF, MOTORIZED OUTSIDE AIR DAMPER. 5. REFERENCE ENTHALPY CONTROL. 6. PHASE MONITOR SHALL PROVIDE 100% PROTECTION TO MOTORS AND COMPRESSORS. 7. POWERED GFCI, 120V/15AMP, 2 PLUG CONVENIENCE OUTLET. 8. THROUGH THE BASE ELECTRICAL ACCESS. 9. 14" HIGH ROOF CURB. 10. HI HEATING CAPACITY 1-STAGE. 11. HI HEATING CAPACITY 2-STAGE. 12. BID ALTERNATE NUMBER 2 - ADD SKYLIGHTS, REPLACE 5 TON RTU-3 WITH 6 TON RTU-3A. SEE DWG. M10.3, GENERAL NOTE 5.

DUCT FURNACE UNIT SCHEDULE (NATURAL GAS)																						
UNIT #	MFR	SERVICE	BLOWER SECTION					FURNACE SECTION					FILTER SECTION			NOTES						
			BLOWER MODEL	CFM	EXTERNAL BLOWER S.P.	SIZE	RPM	FURNACE MODEL	INPUT (MBH)	OUTPUT (MBH)	MAX AIR PD (IN H2O)	EAT TEMP (DEG F)	LVG TEMP (DEG F)	MAX H2O PD (FT H2O)	WEIGHT (LBS)		FILTER SIZE	EFFICIENCY				
DF-1	TRANE	2ND FLR CLG CAVITY	HBAC15BCC01	1,500	0.80	10"	895	0.75	3	208	135	GDND012CEF2000K	125	100	0.15	61.5	123.2	0.15	175	10x25"x25"x1"	25%	1, 2, 3, 4, 5, 6, 7, 8

1. TWO-STAGE, INTERMITTENT PILOT IGNITION. 2. TWO-STAGE LOW VOLTAGE THERMOSTAT. 3. 409 SS HEAT EXCHANGER. 4. SIDE ACCESS BURNER DRAWER (LEFT HAND). 5. DRAIN PAN. 6. 1" THICK PERMANENT FILTERS. 7. SHEETMETAL TRANSITION TO CONNECT THE BLOWER ASSEMBLY TO THE DUCT FURNACE. 8. MAXIMUM .5 PSI NATURAL GAS INLET PRESSURE.

REGISTERS, GRILLES & DIFFUSERS SCHEDULE											
TAG	TYPE	MANUFACTURER	MODEL	NECK SIZE	CFM RANGE	DIRECTION OF BLOW	MAX NC	MAX SP	REMARKS	NOTES	
S1	CEILING DIFFUSER	TITUS	PCS	6" x 6"	0 - 125	SEE PLANS	28	.08"	OBD NOT REQUIRED	1, 2, 3	
S2	CEILING DIFFUSER	TITUS	PCS	8" x 8"	126 - 200	SEE PLANS	28	.08"	OBD NOT REQUIRED	1, 2, 3	
S3	CEILING DIFFUSER	TITUS	PCS	10" x 10"	201 - 280	SEE PLANS	28	.05"	OBD NOT REQUIRED	1, 2, 3	
S4	ADJUSTABLE PLENUM SLOT DIFFUSER	TITUS	TBD-30 2-3/4" SLOTS	SEE PLANS	SEE PLANS	SEE PLANS	25	.10"	OBD NOT REQUIRED	6, 7, 8, 9	
S5	LINEAR SLOT DIFFUSER ADJUSTABLE W/PLENUM	TITUS	MP-38-SP ML38, 2-3/4" SLOTS	SEE PLANS	SEE PLANS	SEE PLANS	25	.10"	OBD NOT REQUIRED	8, 11	
S6	LINEAR BAR GRILLE	TITUS	CT-481, 1/8" BAR 15 DEG., 1/4" SPACING	96"Lx2"H	SEE PLANS	SEE PLANS	25	.10"	OBD NOT REQUIRED	9, 12	
S6A	LINEAR BAR GRILLE	TITUS	CT-481, 1/8" BAR 15 DEG., 1/4" SPACING	96"Lx3.5"H	SEE PLANS	SEE PLANS	25	.10"	OBD NOT REQUIRED	9, 12, 13	
S7	WALL GRILLE	TITUS	300RL	8" x 6"	0 - 125	SEE PLANS	11	.05"	OBD NOT REQUIRED	1, 10	
R1	RETURN GRILLE	TITUS	PAR	6" x 6"	0 - 150	----	14	.13"	OBD NOT REQUIRED	1, 2, 4	
R2	RETURN GRILLE	TITUS	PAR	8" x 8"	151 - 250	----	16	.10"	OBD NOT REQUIRED	1, 2, 4	
R3	RETURN GRILLE	TITUS	PAR	10" x 10"	251 - 400	----	19	.10"	OBD NOT REQUIRED	1, 2, 4	
R4	RETURN GRILLE	TITUS	PAR	12" x 12"	401 - 600	----	24	.13"	OBD NOT REQUIRED	1, 2, 4	
R5	RETURN GRILLE	TITUS	PAR	15" x 15"	601 - 800	----	23	.10"	OBD NOT REQUIRED	1, 2, 4	
R6	RETURN GRILLE	TITUS	PAR	18" x 18"	801 - 1100	----	23	.07"	OBD NOT REQUIRED	1, 2, 4	
R7	RETURN GRILLE	TITUS	PAR	22" x 22"	1101 - 1600	----	25	.09"	OBD NOT REQUIRED	1, 2, 4	
E1	EXHAUST GRILLE	TITUS	PAR	6" x 6"	0 - 150	----	14	.13"	OBD NOT REQUIRED	1, 2, 4	
E2	EXHAUST GRILLE	TITUS	PAR	8" x 8"	151 - 250	----	16	.10"	OBD NOT REQUIRED	1, 2, 4	
E3	EXHAUST GRILLE	TITUS	PAR	10" x 10"	251 - 400	----	19	.10"	OBD NOT REQUIRED	1, 2, 4	
E4	EXHAUST GRILLE	TITUS	PAR	12" x 12"	401 - 600	----	24	.13"	OBD NOT REQUIRED	1, 2, 4	
E5	EXHAUST GRILLE	TITUS	PAR	15" x 15"	601 - 800	----	23	.10"	OBD NOT REQUIRED	1, 2, 4	
E6	EXHAUST GRILLE	TITUS	PAR	18" x 18"	801 - 1100	----	23	.07"	OBD NOT REQUIRED	1, 2, 4	
E7	EXHAUST REGISTER	TITUS	350ZRL	36" x 16"	1250	----	15	.03"	PROVIDE OBD	5	
T1	TRANSFER GRILLE	TITUS	PAR	8" x 8"	0 - 150	----	15	.03"	OBD NOT REQUIRED	1, 2, 4	

NOTES: 1. BAKED ENAMEL WHITE FINISH. 2. BORDER TYPE 3 (LAY-IN) UNLESS OTHERWISE NOTED ON THE DRAWINGS. 3. PERFORATED CEILING SUPPLY, FLUSH FACE. 4. MATCHING PERFORATED RETURN OR EXHAUST GRILLE, FLUSH FACE. 5. SCREWDRIVER SLOT OPERATOR AT OBD. 6. PROVIDE WITH BLACK EXPOSED SURFACES AND CONTROLLER AND WHITE TEES. 7. PROVIDE WITH CROSS NOTCH SLOT. COORDINATE CROSS NOTCH SLOT LOCATIONS WITH REFLECTED CEILING PLAN. 8. 2-3/4" ADJUSTABLE SLOTS, ADJUST FOR 50% HORIZONTAL DISCHARGE INTO THE ROOM AND 50% DOWN DISCHARGE AT EXTERIOR WALL. 9. SEE PLANS FOR DIFFUSER LENGTHS, PLENUM CONNECTION SIZES AND CFM'S. 10. BORDER TYPE 1 SURFACE MOUNTED. 11. SERIES MP-38-SP MODULINEAR DIFFUSER PLENUM (4 FT.) WITH OVAL INLETS AND ADJUSTABLE ML38 MODULINEAR DIFFUSER, SURFACE MOUNT BORDER IN GYPSUM CEILING, ARCHITECTURAL ELEMENTS SHALL MATCH S-4. 12. MODEL CT-481 LINEAR BAR GRILLE, HEAVY GAUGE EXTRUDED ALUMINUM, WITH 15 DEGREE DEFLECTION, 1/8" BAR, 1-1/4" SPACING, ALUMINUM FINISH, 1" BORDER, SURFACE MOUNT BORDER/FRAME, SIDEWALL APPLICATION. 13. BID ALTERNATE 2.

UNIT HEATER SCHEDULE (ELECTRIC)																	
UNIT NO.	MANUFACTURER	MODEL	SERVICE	KW OUTPUT	BTUH OUTPUT	CFM	TEMP RISE	ELECTRIC				WEIGHT	DIMENSIONS WxHxD	MTG AFF	MTG TYPE	NOTES	
								HP	PHASE	VOLTS	AMPS						
EUH-1	CHROMALOX	LUH-02-81-34-41-1	MECHANICAL RM	2.6	8,871	310	27	1/50	1	208	13.1	32	13"x16"x12"	7"-0"</			