

DEDICATED OUTDOOR AIR UNIT (DOAS) SCHEDULE																												
SYMBOL	SERVES	ASSOCIATED EQUIPMENT	TOTAL CFM	% OA	EXT SP	SUPPLY FAN DATA						DX COOLING COIL DATA						ELECTRIC RE-HEAT COIL DATA						ELECT CHAR	UNIT WEIGHT	NOTES	BASIS OF DESIGN	
						CFM	DRIVE	TYPE	DESIGN RPM	BHP	HP	TOT	EAT °F		LAT °F		TOT	SENS MBH	EAT °F		LAT °F		TOT					STEPS OF CONTROL
													DB	WB	DB	WB			IN	MBH	DB	WB						
DOAS-1	NORTH	ACCU-10	850	100	1.9	850	DIRECT	DWDI	1930.0	0.7	1.0	2.5	87.0	76.5	51.6	51.5	0.43	72.0	33.0	51	70	0.10	5	SCR	208/60/3	260	1, 2, 3	TRANE BCHE
DOAS-2	SOUTH	ACCU-11	1200	100	1.8	1200	DIRECT	DWDI	1939.0	1.0	1.5	2.5	87.0	76.5	53.0	52.9	0.45	97.2	44.8	53	77	0.09	10	SCR	208/60/3	275	1, 2, 3	TRANE BCHE

- NOTES:**
- DOAS UNITS SHALL BE PROVIDED WITH SINGLE POINT POWER CONNECTION.
  - OUTDOOR AIR FILTER NOT REQUIRED. FILTRATION BEING FACILITATED VIA FILTER BANKS UP STREAM OF THE IFB COILS.
  - PROVIDE CONDENSATE PUMP CAPABLE OF 0.5 GPM @ 20' HEAD. LITTLE GIANT MODEL VCMX-20 OR APPROVED EQUAL.

SPLIT INDOOR AIR HANDLING UNIT SCHEDULE																																						
SYMBOL	SERVES	ASSOCIATED EQUIPMENT	TOTAL CFM	OA CFM	EXT SP	SUPPLY FAN DATA						DX COOLING COIL DATA						HOT WATER HEATING COIL						FILTER DATA		ELECT CHAR	MCA	MOCP	UNIT WEIGHT	NOTES	BASIS OF DESIGN							
						CFM	DRIVE	TYPE	MOTOR	AIR FLOW	DESIGN RPM	BHP	HP	TOT	VFD	EAT °F		LAT °F		TOT	SENS MBH	EAT °F		LAT °F								TOT	GPM	EWT °F	LWT °F	WPD	TYPE	
																DB	WB	DB	WB			IN	MBH	DB	WB												IN	MBH
						CFM	DRIVE	TYPE	MOTOR	AIR FLOW	DESIGN RPM	BHP	HP	TOT	VFD	EAT °F	LAT °F	SP	TOT	SENS MBH	EAT °F	LAT °F	SP	TOT	GPM							EWT °F	LWT °F	WPD	PRE	FINAL		
AHU-1	REWARD ROOM	ACCU-1	925	160	1.50	925	DIRECT DRIVE	ECM	CONSTANT VOLUME	1760	0.6	1.00	2.1	NONE	75.0	63.0	53.6	52.6	0.25	27.9	21.7	68.0	85.0	0.06	17.0	0.6	180.0	160.0	0.2	MERV8	MERV13	208/60/1	9.7	15.0	221	NOTE 1	TRANE BCHE036	
AHU-2	1ST FLOOR ICR	ACCU-2	550	120	1.50	550	DIRECT DRIVE	ECM	CONSTANT VOLUME	1716	0.4	0.50	2.1	NONE	75.0	63.0	53.2	52.3	0.23	17.1	13.2	68.0	85.0	0.06	16.1	1.0	180.0	160.0	0.3	MERV8	MERV13	208/60/1	5.3	15.0	170	NOTE 1	TRANE BCHE024	
AHU-3	BREAKROOM AREA	ACCU-3	800	250	1.50	800	DIRECT DRIVE	ECM	CONSTANT VOLUME	1674	0.5	0.75	2.0	NONE	75.0	63.0	52.8	51.9	0.20	25.6	19.5	68.0	85.0	0.05	23.4	1.0	180.0	160.0	0.4	MERV8	MERV13	208/60/1	5.3	15.0	216	NOTE 1	TRANE BCHE036	
AHU-4	REC ROOM	ACCU-4	650	250	1.50	650	DIRECT DRIVE	ECM	CONSTANT VOLUME	2052	0.6	1.00	2.8	NONE	75.0	63.0	54.1	53.2	0.80	18.5	15.0	68.0	85.0	0.16	19.0	2.4	180.0	160.0	3.4	MERV8	MERV13	208/60/1	9.7	15.0	165	NOTE 1	TRANE BCHE018	
AHU-5	BEDROOM 9-12	ACCU-5	750	190	1.50	750	DIRECT DRIVE	ECM	CONSTANT VOLUME	1954	0.7	1.00	2.4	NONE	75.0	63.0	54.8	53.5	0.40	21.0	16.6	68.0	85.0	0.10	22.0	1.8	180.0	160.0	0.9	MERV8	MERV13	208/60/1	9.7	15.0	175	NOTE 1	TRANE BCHE024	
AHU-6	BEDROOM 6-8, ICR	ACCU-6	750	190	1.50	750	DIRECT DRIVE	ECM	CONSTANT VOLUME	1954	0.7	1.00	2.4	NONE	75.0	63.0	54.8	53.5	0.40	21.0	16.6	68.0	85.0	0.10	22.0	1.8	180.0	160.0	0.9	MERV8	MERV13	208/60/1	9.7	15.0	175	NOTE 1	TRANE BCHE024	
AHU-7	2ND OFFICES	ACCU-7	750	165	1.50	750	DIRECT DRIVE	ECM	CONSTANT VOLUME	1954	0.7	1.00	2.4	NONE	75.0	63.0	54.8	53.5	0.40	21.0	16.6	68.0	85.0	0.10	22.0	1.8	180.0	160.0	0.9	MERV8	MERV13	208/60/1	9.7	15.0	175	NOTE 1	TRANE BCHE024	
AHU-8	GROUP THERAPY	ACCU-8	550	120	1.50	550	DIRECT DRIVE	ECM	CONSTANT VOLUME	1716	0.4	0.50	2.1	NONE	75.0	63.0	53.2	52.3	0.23	17.1	13.2	68.0	85.0	0.06	16.1	1.0	180.0	160.0	0.3	MERV8	MERV13	208/60/1	5.3	15.0	170	NOTE 1	TRANE BCHE024	
AHU-9	GROUP THERAPY	ACCU-9	450	165	1.50	450	DIRECT DRIVE	ECM	CONSTANT VOLUME	2027	0.4	0.50	2.8	NONE	75.0	63.0	50.6	50.4	0.90	16.0	12.0	68.0	85.0	0.13	13.2	1.4	180.0	160.0	1.2	MERV8	MERV13	208/60/1	5.3	15.0	155	NOTE 1	TRANE BCHE012	

- NOTES:**
- PROVIDE CONDENSATE PUMP CAPABLE OF 0.5 GPM @ 20' HEAD. LITTLE GIANT MODEL VCMX-20 OR APPROVED EQUAL.

AIR COOLED CONDENSING UNIT AND HEAT PUMP SCHEDULE																	
SYMBOL	ASSOCIATED EQUIPMENT	COOLING CAPACITY MBH	HEATING CAPACITY MBH	QTY	CONDENSOR FANS				COMPRESSOR			ELECT CHAR	MCA	MOCP	UNIT WT	NOTES	BASIS OF DESIGN
					HP	RPM	TOTAL CFM	FLA	QTY	RLA	LRA						
ACCU-1	AHU-1	28.2	N/A	1	1/8	850	2435	0.64	1	12.8	67.8	208/60/1	17	25	180	1.2	TRANE 4TTL6030A
ACCU-2	AHU-2	18	N/A	1	1/12	810	2400	0.54	1	9.0	48.0	208/60/1	12	20	165	1.2	TRANE 4TTL6018A
ACCU-3	AHU-3	28.2	N/A	1	1/8	850	2435	0.64	1	12.8	67.8	208/60/1	17	25	180	1.2	TRANE 4TTL6030A
ACCU-4	AHU-4	18	N/A	1	1/12	810	2400	0.54	1	9.0	48.0	208/60/1	12	20	165	1.2	TRANE 4TTL6018A
ACCU-5	AHU-5	24	N/A	1	1/12	810	2400	0.54	1	10.1	52.0	208/60/1	13	20	165	1.2	TRANE 4TTL6024A
ACCU-6	AHU-6	24	N/A	1	1/12	810	2400	0.54	1	10.1	52.0	208/60/1	13	20	165	1.2	TRANE 4TTL6024A
ACCU-7	AHU-7	18	N/A	1	1/12	810	2400	0.54	1	9.0	48.0	208/60/1	12	20	165	1.2	TRANE 4TTL6018A
ACCU-8	AHU-8	18	N/A	1	1/12	810	2400	0.54	1	9.0	48.0	208/60/1	12	20	165	1.2	TRANE 4TTL6018A
ACCU-9	AHU-9	18	N/A	1	1/12	810	2400	0.54	1	9.0	48.0	208/60/1	12	20	165	1.2	TRANE 4TTL6018A
ACCU-10	DOAS-1	76	N/A	1	1/2	1100	SEE NOTE 3	2.2	1	22.4	149	208/60/3	30	50	328	1,2,4	TRANE TWA072
ACCU-11	DOAS-2	84	N/A	1	1/2	1100	SEE NOTE 3	2.2	1	28.6	208	208/60/3	38	60	333	1,2,4	TRANE TWA090
ACCU-12	SS-1, SS-2, SS-3	22	25	1	SEE NOTE 3	2150	2.4	1	20.0	28.8	208/60/1	30.5	40	189	1,2	TRANE NTXMPH24	
ACCU-13	SS-4, SS-5, SS-6	22	25	1	SEE NOTE 3	2150	2.4	1	20.0	28.8	208/60/1	30.5	40	189	1,2	TRANE NTXMPH24	
ACCU-14	SS-7	9	10.9	1	SEE NOTE 3	1229	0.5	1	6.7	7.7	208/60/1	9	15	81	1,2	TRANE NTXSS09A112AB	

- NOTES:**
- COOLING CAPACITIES BASED ON 95°F AMBIENT TEMPERATURE. HEATING CAPACITIES BASED ON 5°F AMBIENT TEMPERATURE.
  - CAPACITIES BASED ON R-410A REFRIGERANT.
  - INFORMATION NOT PROVIDED BY MANUFACTURER
  - PROVIDE LEAD COMPRESSOR WITH AN UNLOADER (WITH LEAVING AIR TEMPERATURE CONTROL) AS OUTLINED IN THE SPECIFICATIONS.

SPLIT SYSTEM HEAT PUMP INDOOR UNIT SCHEDULE										
SYMBOL	SERVES	ASSOCIATED EQUIPMENT	NOMINAL CFM	OA CFM	COOLING CAPACITY MBH	HEATING CAPACITY MBH	ELECT CHAR	UNIT WIGHT LBS	BASIS OF DESIGN	
SS-1	017 - SUPERVISOR	ACCU-12	237	0	6.0	7.2	NOTE 1, 3	22	TRANE NTXWST06A112A	
SS-2	016 - COUNSELOR #3	ACCU-12	237	0	6.0	7.2	NOTE 1, 3	22	TRANE NTXWST06A112A	
SS-3	015 - CORRIDOR	ACCU-12	237	0	6.0	7.2	NOTE 1, 2, 3	22	TRANE NTXWST06A112A	
SS-4	004 - COUNSELOR #2	ACCU-13	237	0	6.0	7.2	NOTE 1, 3	22	TRANE NTXWST06A112A	
SS-5	003 - COUNSELOR #1	ACCU-13	237	0	6.0	7.2	NOTE 1, 3	22	TRANE NTXWST06A112A	
SS-6	001 - CORRIDOR	ACCU-13	237	0	6.0	7.2	NOTE 1, 3	22	TRANE NTXWST06A112A	
SS-7	012 - IT	ACCU-14	237	0	9.0	10.9	NOTE 1, 3	22	TRANE NTXWST09A112A	

- NOTES:**
- INDOOR UNITS SHALL RECEIVE POWER FROM OUTDOOR UNIT VIA INTERCONNECTED WIRING.
  - SS-3 IN BASE BID #2 AND BASE BID #3 ONLY. NOT INCLUDED IN BASE BID #1.
  - PROVIDE INTEGRAL CONDENSATE PUMP WITH INDOOR SPLIT SYSTEM UNIT.

PUMP SCHEDULE																	
PUMP No.	TYPE	SYSTEM	OPERATION DUTY/STAND-BY	FLUID TYPE	GPM	FEET HD	EFF %	BHP	MOTOR HP	RPM	ELECT CHAR	EMERGENCY POWER	VARIABLE FREQ DRIVE	OPERATING CONDITIONS	IMPELLER SIZE	BASIS OF DESIGN	
																	EFF
HWP-1	VERTICAL INLINE	HOT WATER	DUTY	WATER	20	55	37	0.75	1.50	1760	208/60/3	YES	NO	GPM	50	7.44	ARMSTRONG 4380 - 1.5x1.5x8
					FT HD	45											
					EFF	49.5											
HWP-2	VERTICAL INLINE	HOT WATER	STAND-BY	WATER	20	55	37	0.75	1.50	1760	208/60/3	YES	NO	GPM	50	7.44	ARMSTRONG 4380 - 1.5x1.5x8
					FT HD	45											
					EFF	49.5											

- NOTES:**
- REFER TO SCHEMATIC FLOW DIAGRAM FOR CONDENSATE PUMP SYSTEM DATA

HORIZONTAL UNIT HEATER SCHEDULE													
SYMBOL	SERVES	CFM	MOTOR WATTS	ELECT CHAR	MBH	GPM	PD FT	EWT °F	WTD °F	EAT °F	FAT °F	MOUNTING HEIGHT	BASIS OF DESIGN
HUH-1	3RD NORTH	450	16	120/60/1	17.4	1.8	0.014	180	19.3	60	96	6'	STERLING HS-024B
HUH-2	3RD SOUTH	450	16	120/60/1	17.4	1.8	0.014	180	19.3	60	96	6'	STERLING HS-024B
HUH-3	3RD CENTER	450	16	120/60/1	17.4	1.8	0.014	180	19.3	60	96	6'	STERLING HS-024B

- NOTES:**
- INSTALL ELECTRIC THERMOSTAT ON 0"-6" CONDUIT EXTENSION FROM BOTTOM OF UNIT HEATER.
  - SUPPLY ALL UNIT HEATERS W/ DOUBLE DEFLECTION LOUVERS.

CONVERTER SCHEDULE														
SYMBOL	LOCATION	CIRCULATING FLUID (TUBES)						STEAM PSIG (SHELL)		CONTROL VALVE LBS/HR	TRAP LBS/HR	FOULING FACTOR	BASIS OF DESIGN	
		FLUID	GPM	IN	OUT	PD	FT	ENTERING PSIG	LEAVING PSIG					
HX-1	MECH ROOM	WATER	40	160	180	0.10		5		1	415	800	0.00014	ARMSTRONG WS-0602
HX-2	MECH ROOM	WATER	40	160	180	0.09		5		1	415	800	0.00014	ARMSTRONG WS-0602

EXHAUST FAN SCHEDULE													
SYMBOL	LOCATION	SERVES	FAN CFM	RPM	STATIC PRESSURE	MOTOR TYPE	DRIVE	VFD	BHP	HP	ELECT CHAR	WEIGHT	BASIS OF DESIGN
EF-1	007 JANITOR	011, 006, 007	225	1168	0.3	ECM	DIRECT	NONE	0.03	0.1	120/60/1	49	GREENHECK SQ-90-VG
EF-2	ICR	ICR TOILET	50	808	0.2	ECM	DIRECT	NONE	0.008				