

FAN AND BLOWER SCHEDULE																																		
QUANTITY	ITEM NO.	SERVICE			LOCATION			PERFORMANCE			TYPE OF SUPPORT			WHEEL SPEED			ELEC.	DRIVE SPECS			APPLI- CATION		NEMA ENCLOSURE	DISCONNECT SWITCH BY FAN VENDOR	BASE AND WB ISOLATORS	DAMPER APPLICATION	MAXIMUM SONE RATING @ 0' S.P.	FAN REQUIREMENTS PER FAN CODE TABLE	ADDITIONAL ACCESSORIES PER ELECTRICAL CODE TABLE	APPROVED MANUFACTURER AND MODEL NUMBER				
		TYPE			AREA	SEA LEVEL AND 70° F			WALL	OVERHEAD	ROOF BASE	OTHERS	MAXIMUM TIP FPM	MAXIMUM RPM	MAXIMUM OUTLET FPM	TYPE		RPM	NON HAZARD	HAZARD														
		WALL	ROOF			CFM	ESP IN. H2O	MTR SIZE													DRIVE	FAN									MOTOR			
4	EF 1,2,3,4						FILTER BUILDING	6585	.30	3/4					6165	815	460 3-60	BELT	815				4X		SELF	12	20.0	2 3 5 7 8 9	17	(B) (R)	SPB-CA 30 EXHAUST			
	EF 5						HVAC ROOM	2480	.50	1/2					5363	1140		DIRECT	1140				4				16.3	2 3 4	17			GW-170-B		
	EF 6						LOCKER ROOM	1975	.75	1/2					5360	1400		BELT	1400				4				12.8	4	17			GWB-14-5		
	EF 7						OFFICE	240	.625	1/4					3985	1360	120 1-60	BELT	1360				12				14	12.3	6 7	17			BSQ 8-4	
	EF 8						BACTERIA LAB	420	1.0	1/2					-	1170		BELT	-				4X		7			6 8 9 10				SUPPLIED WITH FUME HOOD		
	EF 9						CHEMICAL LAB	954	1.25	1/2					-	1145		BELT	-				4X		7			6 8 10				SUPPLIED WITH FUME HOOD		
	EF 10						CHLORINATOR RM.	2570	1.50	1.0					6514	1345	460 3-60	BELT	1345				4X		SELF	12	15.5	1 2 3 4	17 21	(B)		CUBE-HP-18-10		
2	EF 11,12						TANK ROOM	16600	.25	5.0					6079	645		BELT	645				4X				27.2			21			CUBE-36-50	
	EF 13						ELECTRICAL ROOM	3930	.375	1.0					5521	1140		DIRECT	1140				4X				16.8			21			CUE-18-B	
	EF 14						CARBON ROOM	3930	.375	1.0					5521	1140		DIRECT	1140				9				16.8			18 21			CUE-18-B	
3	EF 15,16,17						CYL. STGE. ROOM	5520	1.75	3.0					6747	845		BELT	845				4X				18.9	8 9	21				CUBE-HP-30-30	
	EF 18						STORAGE ROOM	1745	.375	1/4					4365	1140	120 1-60	DIRECT	1140				4X				10.8			21			CUE-14-B	
	EF 19						CHLORINATOR RM.	2970	.25	1/4					5970	1140		DIRECT	1140				4X				-	5					SDS-20-24-B SUPPLY	
	EF 20						RATE CONTR. VALVE 1	490	.375	1/12					3488	1140		DIRECT	1140				4X				6.4			17			GW-100-B	
	EF 21						FLASH MIX BLDG.	895	.375	1/8					3602	860		DIRECT	860				4X				7.6						GW-150-C	
	EF 22						FLASH MIX BLDG. 2	895	.375	1/8					3602	860		DIRECT	860				4X				7.6						GW-150-C	
	EF 23						WASH WATER PUMP STATION	1260	.125	1/4					-	-		DIRECT	-				4X				-	5					(SPECIAL) HARTZELL FAN COMPANY MODEL NO.02-12-003-S	
	RV 1						CARBON ROOM	3930	-	-					-	-		-	-				9				-	1 4		18 21			GRS-30	
	RV 2						CHLORINATOR RM.	2970	-	-					-	-		-	-				4X		NR		-	1 4	8 9	21			FIELD FABRICATED OUTSIDE AIR INTAKE HOOD	
	EF 24						HYDROFLUOSILICIC ACID ROOM	10040	.25	1.5					3958	420	460 3-60	BELT	460				4X		SELF	12	12.9	1 2 3 4	17 19 21	(B)		CUBE 36-15		
	SF 25						CHLORINATOR RM.	2683	.75	3/4					-	1190		BELT	1190				4X			7	14	13.1	2 6 7 8 9	16 17				W/MANUAL INLET VANE DAMPER SET
2	EF 26, 27						CHEMICAL STORAGE TANK ROOM	13020	.25	3.0					4901	520		BELT	520				4X		SELF	12	21.1	1 2 3 4	17 20 21	(B)		CUBE 36-30		
	EF 28						AMMONIA ROOM	2800	.25	1/3					4020	830	120 1-60	BELT	830				4X		SELF	12	10.4	2 3 4	17 20			GWB 18-3		
FAN REQUIREMENTS PER FAN CODE TABLE								(5) WALL FAN GUARD. (6) BILT GUARD. (7) VIBRATION ISOLATORS. (8) CHLORINE ATMOSPHERE - STEEL SURFACES TO BE EISENHEISS COATED. (9) CHLORINE ATMOSPHERE - ALUMINUM SURFACES TO BE EPOXY COATED. (10) MANUAL VOLUME CONTROL DAMPER ON BLOWER DISCHARGE.					(11) MOTOR OUT OF AIRSTREAM. (12) EQUIPMENT VENDOR TO PROVIDE DAMPER MOTOR AND BACKDRAFT DAMPER. (120 V) (13) PHYSICAL DIMENSIONS MUST BE EQUAL TO OR LESS THAN SPECIFIED EQUIPMENT. (14) EQUIPMENT VENDORS TO PROVIDE GRAVITY AUTOMATIC DAMPERS. (15) BACKDRAFT DAMPER WITH MOTOR TO BE PROVIDED BY OTHERS. (120 V)					(16) MOTORIZED INLET LOUVERS/DAMPERS TO BE PROVIDED BY OTHERS. (120 V) (17) FAN ASSEMBLY TO BE PACKAGED AS A FACTORY WIRED UNIT WITH DISCONNECT SWITCH, MOTOR, DAMPER ELECTRIC MOTOR, TRANSFORMER, ETC. POWER CONNECTION BY OTHERS. (18) EXPLOSION PROOF CONSTRUCTION CLASS II GROUP F NEMA 9					(19) HYDROFLUOSILICIC ACID ATMOSPHERE -STEEL AND/OR ALUMINUM SURFACES TO BE EPOXY COATED. (20) AMMONIA ATMOSPHERE-STEEL AND/OR ALUMINUM SURFACES TO BE EPOXY COATED. (21) PROVIDE EXTENDED ROOF BASE W/MOTORIZED BACKDRAFT DAMPER SET.											
(1)	CONTRACTOR TO COORDINATE ROOF MOUNTING FLANGES OF ROOF MOUNTED FANS, HOODS ETC. WITH 4" WIDE ROOF CURBS AS INSTALLED. REFER TO ARCHITECTURAL DRAWINGS FOR CURB DETAILS.																																	
(2)	MOTORIZED REMOTE OUTDOOR AIR DAMPER INTERLOCKED WITH FAN.																																	
(3)	HVAC CONTROLS SUB-CONTRACTOR TO FURNISH AND INSTALL CONTROLS AND ON-OFF-AUTO THERMOSTAT AS PER SPECIFICATIONS.																																	
(4)	BIRD SCREEN																																	

STEAM UNIT HEATERS PERFORMANCE TABLE											
DRAWING SYMBOL	WING COMPANY MODEL NUMBER	MAXIMUM MOUNTING HEIGHT (FT.)	MBH @ 10 PSIG	MBH @ 15 PSIG	COND. LB./HR. @ 10 PSIG	CFM @ 50° F E.A.	FINAL TEMP. (°F)	THROW (FT.)	EQUIP. CONN.	EQUIPMENT TO BE RECTANGULAR WITH FOLLOWING MAX. BODY HEIGHT	WEIGHT (LBS.)
SUH	15U HORIZ.	12	78.0	82.0	85	1200	122	40	1 1/4" 1 1/4"	20"	65
SUH	20U HORIZ.	13	165.0	173.0	180	2550	119	60	1 1/4" 1 1/4"	24"	100
SUH	22U HORIZ.	14	195.0	206.0	214	2750	128	65	1 1/2" 1 1/2"	30"	115

SCHEDULE OF STEAM UNIT HEATERS BASED ON WING COMPANY											
DRAWING SYMBOL	ITEM NUMBER SUH	NO.	LOCATION	WING MFG. NO.	TYPE	MOTOR			N E M A	DISCHARGE LOUVERS	CODE REQUIREMT.
SUH	1,2,3,4,5	5	PIPE GALLERY	22U		HP	RPM	V	φ	Hz	③
SUH	6	1	TEL. EQUIP. RM.	15U		1/6	1150	120	1	60 12	③
SUH	7	1	BOILER RM. ANNEX	15U		1/6	1750	120	1	60 12	③

STEAM HEATING SYSTEM — EQUIPMENT AND AUXILIARIES											
ITEM	EQUIPMENT	MANUFACTURING AND MODEL NUMBER									
VCU-1	VACUUM CONDENSATE RETURN UNIT PIPE GALLERY	I.T.T. CO. DOMESTIC MODEL 10HVS2-40-35 DUPLEX 100% CAP PUMPS 15 GPM @ 40 PSIG EACH 1750 RPM. RATED 10,000 ② EDR									
		REFER TO WRITTEN SPECIFICATIONS									
		RATING 5 1/2" HG. VACUUM @ 160°F SIMULTANEOUS 14 GPM WATER 6 CFM AIR CODE ① ②									

HVAC ROOFTOP UNITS											
FACTORY PACKAGED SELF CONTAINED HVAC ROOF TOP UNITS, NATURAL GAS FIRED, ELECTRIC DX COOLING, ECONOMIZER PACKAGE. REFER TO SPECIFICATIONS FOR DETAILS, CONTROLS & ACCESSORIES.						HVAC — ③ SYSTEM (BASED ON CARRIER CORP.)					
HVAC — ① 5,000 CFM, 1.8" ESP, 3.0 H.P. SUPPLY FAN HEATING 115.5/231.5 MBH INPUT, 183.0 MBH OUT, 22/55°F ΔT RISE. COOLING @ 80°F EDB/67°F EWB RATING, 95°F D.B. E.A. AT CONDENSER. 154.0 MBH TOTAL COOLING, 117.0 MBH SHC. CARRIER CORP. MODEL 48DR-014 NOMINAL 12 TON CAPACITY WITH HORIZONTAL RETURN AND BOTTOM SUPPLY CONNECTIONS.						AIR HANDLING UNIT, VERTICAL DRAW THRU, TOP REAR DISCHARGE, FORWARD CURVE FAN, ADJUSTABLE BELT DRIVE, WITH NEMA 12 DISCONNECT SWITCH, 460V. 3PH. 60 HZ. POWER, FOR 100% MAKEUP AIR APPLICATION WITH DX REFRIGERATION COOLING COILS AND REMOTE OUTDOOR AIR COOLED CONDENSING UNIT. HEATING WILL BE FURNISHED BY OTHERS UTILIZING GAS FIRED DUCT HEATERS. CARRIER CORP. MODEL 39LA03 AIR HANDLER. ALL COMPONENTS TO BE PROVIDED BY SAME MANUFACTURER, WHO WILL SELECT AND MATCH THE AIR HANDLER, DX CONDENSING UNIT AND DX COOLING COILS AS A COMPLETE SYSTEM. THE EQUIPMENT TRAIN IS TO HAVE A FILTER ASSEMBLY, PRE-FILTER SECTION WITH FARR 30/30 FILTERS, AN ACCESS SECTION, A DX REFRIGERANT COIL SECTION AND THE AIR HANDLER. PERFORMANCE RATINGS: HVAC — ③ 1500 CFM @ 2.0" ESP 2.0 H.P. MOTOR CODE REQUIREMENT ① ② ③ ④ ACC-1 DX REFRIGERATION CONDENSING UNIT, MULTIPLE COMPRESSORS, WITH NEMA 4 DISCONNECT SWITCH, 460V 3PH 60 HZ POWER. REFRIGERATION TYPE 22, 100° AMBIENT, 45° SUCTION TEMP., CARRIER CORP. MODEL 38BA008 TOTAL CAPACITY 88.0 MBH. 8.4 KW CC-1 DX REFRIGERANT COIL FULL FACE VERTICAL SPLIT, INTERTWINED CIRCUITING, 45° SUCTION TEMP., MAX. 500 FPM VEL. EA 93°F DB 72°F WB LA 57°F DB 56.3°F WB TOTAL CAPACITY 77.8 MBH					
HVAC — ② 3,400 CFM 1.2" ESP, 3.0 H.P. SUPPLY FAN HEATING 180.0/220.0 MBH INPUT, 142.0/174.0 MBH OUTPUT, 35/65°F ΔT RISE. COOLING 80°F EDB/67°F EWB RATING, 95°F D.B. E.A. AT CONDENSER. 105.2 MBH TOTAL COOLING, 79.0 MBH SHC. CARRIER CORP. MODEL 48DJ. 009 NOMINAL 8 1/2 TON WITH ROOF CURB AND VERTICAL DUCT CONFIGURATION.						DATA AIRE INC., GARDEN GROVE, CA. FACTORY PACKAGED SELF CONTAINED HVAC UNIT. MODEL DAME-2.5 AIR COOLED-INDOOR DX EVAPORATOR AND CONDENSER. RATED @ 80°F.DB/67°F.WB 34,300 BHR TOTAL 25,000 BHR SENS. EVAP. 1,000 CFM 3/4 H.P. MOTOR 0.3" ESP. ELECTRIC REHEAT 6.0 KW ELECTRIC HUMIDIFIER 1.7 KW 1 COMP. 1 STAGE. FILTER BOX, DATA ALARM MINI-PROCESSOR.. 460V. 3PH 60HZ POWER, PROVIDE NEMA 12 DISC. SW. STARTER, PER WRITTEN SPECIFICATIONS. CODE REQUIREMENT ① ② ③ ④					

LEGEND																			
ACCU	AIR COOLED CONDENSING UNIT	IH	INTAKE AIR HOOD	MBD	MANUAL BALANCING DAMPER	MD	MOTORIZED DAMPER	NG	NATURAL GAS	OA	OUTSIDE AIR	OAD	OUTSIDE AIR DAMPER	PA	PIPE ANCHOR	PAG	PIPE ALIGNMENT GUIDE	PC	PUMP CONDENSATE
AD	ACCESS DOOR	MD	MOTORIZED DAMPER	NG	NATURAL GAS	OA	OUTSIDE AIR	OAD	OUTSIDE AIR DAMPER	PA	PIPE ANCHOR	PAG	PIPE ALIGNMENT GUIDE	PC	PUMP CONDENSATE	PRV	PRESSURE REDUCING/REGULATOR VALVE	PS	PRESSURE SWITCH
AHU	AIR HANDLING UNIT	MD	MOTORIZED DAMPER	NG	NATURAL GAS	OA	OUTSIDE AIR	OAD	OUTSIDE AIR DAMPER	PA	PIPE ANCHOR	PAG	PIPE ALIGNMENT GUIDE	PC	PUMP CONDENSATE	RA	RETURN AIR	RAD	RETURN AIR DAMPER
AL	ACOUSTIC LINER	MD	MOTORIZED DAMPER	NG	NATURAL GAS	OA	OUTSIDE AIR	OAD	OUTSIDE AIR DAMPER	PA	PIPE ANCHOR	PAG	PIPE ALIGNMENT GUIDE	PC	PUMP CONDENSATE	RB	ROLLER BRACKET	REF	ROOF MOUNTED EXHAUST FAN
ARV	AUTOMATIC RELIEF VALVE	MD	MOTORIZED DAMPER	NG	NATURAL GAS	OA	OUTSIDE AIR	OAD	OUTSIDE AIR DAMPER	PA	PIPE ANCHOR	PAG	PIPE ALIGNMENT GUIDE	PC	PUMP CONDENSATE	RF	RETURN AIR FAN	RH	RELIEF AIR HOOD
AV	AIR VENT	MD	MOTORIZED DAMPER	NG	NATURAL GAS	OA	OUTSIDE AIR	OAD	OUTSIDE AIR DAMPER	PA	PIPE ANCHOR	PAG	PIPE ALIGNMENT GUIDE	PC	PUMP CONDENSATE	RV	RELIEF VENT	RL	REFREGERANT LIQUID LINE
BC	BALANCING COCK	MD	MOTORIZED DAMPER	NG	NATURAL GAS	OA	OUTSIDE AIR	OAD	OUTSIDE AIR DAMPER	PA	PIPE ANCHOR	PAG	PIPE ALIGNMENT GUIDE	PC	PUMP CONDENSATE	RR	RETURN AIR REGISTER	RS	REFRIGERANT SUCTON LINE
BCU	BOILER CONDENSATE FEED UNIT	MD	MOTORIZED DAMPER	NG	NATURAL GAS	OA	OUTSIDE AIR	OAD	OUTSIDE AIR DAMPER	PA	PIPE ANCHOR	PAG	PIPE ALIGNMENT GUIDE	PC	PUMP CONDENSATE	S15	STEAM SUPPLY 15 PSIG	SBB	