



EXPANSION TANK SCHEDULE																									
MARK	LOCATION	SYSTEM AND/OR SERVICE	TYPE	APPROX. SYSTEM VOLUME		INITIAL PRESSURE IN TANK		MAX. OPERATING PRESSURE		REL. PRESSURE AT TANK		MIN. VOLUME TANK		MIN. BLADDER VOLUME		PIPE SIZE TO TANK		COLD WATER FILL SIZE		REMARKS					
				MIN.		MAX.		PRESSURE IN TANK		REL. PRESSURE		AT TANK		MIN. VOLUME TANK		MIN. BLADDER VOLUME		PIPE SIZE TO TANK							
				GAL	L	°F	°C	°F	°C	PSIG	kPa	PSIG	kPa	PSIG	kPa	PSIG	kPa	GAL	L		GAL	L	N	mm	N
2ND FLOOR	CHILLED WATER	VERT. DOWNDRAW	315	119.3	45	17	55	13.1	12	1.01	925	196.5	80	1.92	30	1.483	2	1.91	13	1.5	0.75	1.91	0.75	1.91	NOTE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	PUMP SCHEDULE										ELECTRICAL MOTOR						REMARKS	
					FLUID	CIRCULATING FLUID																
						FLOW		HEAD		NPSH AVAILABLE		TEMPERATURE		SP GR	MIN % EFF	NOMINAL POWER		PHASE	VOLT	MAX RPM		SPEED CONTROL
						GPM	l/s	FT	MPa	FT	MPa	°F	°C			HP	KW					
1-1A	2ND FLOOR MECH ROOM	PATIENT CARE	CHILLED WATER	END SUCTON	MATCH EXISTING SUCTON	120	[81]	80	[860]	MODEL	MODEL	44	[71]	1	SEE SPEC	5	[4]	3	208	1750	NO	WITH SUCTON DIFFUSER AND HAND-OFF-AUTO PANEL
1-1B	2ND FLOOR MECH ROOM	PATIENT CARE	CHILLED WATER	END SUCTON	MATCH EXISTING SUCTON	120	[81]	80	[860]	MODEL	MODEL	44	[71]	1	SEE SPEC	5	[4]	3	208	1750	NO	WITH SUCTON DIFFUSER AND HAND-OFF-AUTO PANEL
1-2A	2ND FLOOR MECH ROOM	PATIENT CARE	COOLING TOWER	END SUCTON	MATCH EXISTING HEEDER	140	[91]	42	[970]	MODEL	MODEL	55	[35]	1	SEE SPEC	5	[4]	3	208	1750	NO	WITH SUCTON DIFFUSER AND HAND-OFF-AUTO PANEL
1-2B	2ND FLOOR MECH ROOM	PATIENT CARE	COOLING TOWER	END SUCTON	MATCH EXISTING HEEDER	140	[91]	42	[970]	MODEL	MODEL	55	[35]	1	SEE SPEC	5	[4]	3	208	1750	NO	WITH SUCTON DIFFUSER AND HAND-OFF-AUTO PANEL

STEAM HEATING COIL SCHEDULE															
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM APPLICATION	AIR FLOW [CFM]	MAX FACE VELOCITY [FPM]	APD [IN WG]	TEMPERATURES			TOTAL MIN CAPACITY [MMBtu/hr]	STEAM		REMARKS		
							ENT	EXIT	LAT		ENT CONT. VALVE	ENT COIL			
1-SH22	2ND FLOOR MECH ROOM	WARD B	1-4-H2 PREHEAT	10200 [6000]	500 [254]	0.2 [50]	0	-143 [°C]	58 [14]	861 [2000]	15	1 [100]	5	135	WITH FACE AND PRESS

STEAM HUMIDIFIER SCHEDULE																								
MARK	LOCATION	SYSTEM RAIDOR SERVICE	HUMIDIFIER TYPE	AIR FLOW	# OF MANIFOLDS	EAT				LAT		STEAM				TRAP		REMARKS						
						DB	WB	DEWPOINT	DEWPOINT	SOURCE	PRESS ENT VALVE	PRESS ENT HEATER	FLOW	CONTROL TYPE	CAPACITY MARK									
			CFM	[L/s]		°F	°F	°F	°F	°F	°F		PSIG	[kPa]	PSIG	[kPa]	USGHR	[kg/hr]						
2ND FLOOR MECH ROOM	1-SH-2	STANTOCLEAN STEAM	14000	[8600]	1	75	47	[43]	-11	[-24]	50	[10]	STEAM	10	[69]	10	[69]	255	[120]	F.R.D. MOUNTED	NA	255	[120]	

FAN SCHEDULE																									
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW CFM	TSP		FAN						MOTOR ELECTRICAL						CONTROL SEQUENCE	REMARKS					
					IN	PA	TYPE	WHEEL	CLASS	ARRANGEMENT POSITION AND DISCHARGE	DIAMETER IN	MIN % EFF	DRIVE	FAN MAX RPM	NOMINAL POWER BHP	HP	[W]	PHASE			VOLT	RPM	SPEED CONTROL		
1SF2	2ND FLOOR MECH ROOM	WARD B	1-4HJ2	1200	[600]	5.68	[1400]	CENTRIFUGAL	AF	2	VERTICAL	27	[60]	ASBARE 901	BELT	2000	18	20	[151]	3	208	1750	VFD	THRU BAS	WITH MERV 7 AND MERV 9 FILTERS
1SF2	2ND FLOOR MECH ROOM	WARD B	1-4HJ2	1200	[600]	2.65	[660]	CENTRIFUGAL	AF	2	HORIZONTAL	27	[60]	ASBARE 901	BELT	2000	10	15	[111]	3	208	1750	VFD	THRU BAS	REFERENCE EXISTING
1SF1	2ND FLOOR MECH ROOM	WARD B	EXHAUST	7800	[3700]	3.5	[880]	CENTRIFUGAL	BI	2	UPRAUST	38.5	[960]	ASBARE 901	BELT	1750	7.5	7.5	[61]	3	208	1750	VFD	THRU BAS	REFERENCE EXISTING
1SF2	2ND FLOOR MECH ROOM	WARD B	EXHAUST	1000	[470]	0.25	[63]	AXIAL SUPPLEMENTAL	-	-	HORIZONTAL	17	[40]	ASBARE 901	DIRECT	1160	0.14	0.16	[1]	1	115	1160	ON/OFF	THRU STA 8 ALARM PANEL	
1EF3	2ND FLOOR KITCHEN	WARD B	KITCHEN HOOD EXHAUST	735	[30]	1	[280]	CENTRIFUGAL	BI	2	HORIZONTAL INLINE	18	[40]	ASBARE 901	BELT	1873	0.27	0.5	[1]	1	115	1725	ON/OFF	THRU FLOOR	NEED TO BE STARTED FOR APPROPRIATION

CHILLED WATER COOLING COIL SCHEDULE																											
MARK	LOCATION	AREA AND/OR BLOS SERVED	SYSTEM AND/OR SERVICE	AIR FLOW		MAX FACE VELOCITY	APD		EAT		LAT		TOTAL CAPACITY		SENSIBLE CAPACITY		FLOW	CHILLED WATER					REMARKS				
				CMH	[L/s]		FPM	[ft/s]	INWG	[Pa]	DB	WB	DB	WB	MBH	[kW]		MMH	[kW]	GPM	[L/s]	°F		°C	°F	°C	FT
10A0025	2ND FLOOR MECH ROOM	HANDS	15442	16300	530	11	1380	89	127	68	193	54	122	54	122	410	1440	300	1140	300	16	45	55	13.3	47	15

WATER COOLED CHILLER SCHEDULE																																	
MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	CAPACITY TONS	MAX KW/TON	MIN COP (KW/TON)	MAX PLV (KW/TON)	EVAPORATOR												CONDENSER										ELECTRICAL			REMARKS
								FLOW		EWT		LWT		MAX WPD		FOULING FACTOR		FLOW		EWT		LWT		MAX WPD		FOULING FACTOR		POWER MCA	PHASE	VOLT	SPEED CONTROL		
								GPM	US	°F	°C	°F	°C	FT	[kPa]	[kPa]	US	°F	°C	FT	[kPa]	[kPa]	US	°F	°C	FT	[kPa]	[kPa]	0.00010	208	3	208	
1WCH2C	2ND FLOOR MECH ROOM	WARD B	SCROLL	45	113	ASHRAE 90.1	ASHRAE 90.1	114	177	45	171	55	131	15.5	143	0.00010	142	19	85	129	95	135	12	191	0.00010	208	3	208	-	WITH 4 COMPRESSORS R410A			

COOLING TOWER SCHEDULE																														
		FAN MOTOR										SLURRY HEATER		MAX HEIGHT		REMARKS														
MARK	LOCATION	SERVICE	TOWER CAPACITY	# CELLS	FLOW RATE EACH CELL	WPD	TEMPERATURE				SPEED CONTROL	TYPE	CAPACITY	LB	FT															
							AMBIENT WB	ENV	LMT	NO							POWER	PHASE	VOLT											
			TONS	[MM]	[GPM]	[US]	°F	[°C]	°F	[°C]	HP	[MM]																		
1-C72	ROOF	CONDENSER WATER	45	[131]	1	135	[9]	6	[194]	78	[26]	59	[135]	85	[129]	1	3	121	3	268	1750	WPD	ELCC	15550	4600	2400	[1100]	9	131	WITH RASIN PUMP AND CHEMICAL PRE-FILTER. FAN WPD AND LOW SOUND OPTION

[illegible]

SOLID SEPARATOR SCHEDULE (SIDE STREAM)										
MARK	LOCATION	SYSTEM RAIDOR SERVICE	TYPE	SIZE		CAPACITY GPM [L/S]	SIDE STREAM	PUMP (HP)	REMARKS	
				IN	[mm]					
SSSR2-A	2ND FLOOR MECH ROOM	1-12-A	CENT	2	140	66	141	YES	131	SEE DWG-44866 FOR PUMP AND DETAILS

HVAC DESIGN DATA												
DESIGN CONDITIONS	SUMMER					WINTER					LOWEST AVERAGE ANNUAL DEWPOINT	
	TEMP	WET BULB TEMP		% HUMIDITY	TEMP	DEWPOINT TEMP		% HUMIDITY	TEMP	% HUMIDITY	ANNUAL DEWPOINT	
		°F	°C			°F	°C					°F
OUTDOOR DESIGN CONDITIONS	90	121	72	121	53	1	-17	0	-18	NA	5	121
INDOOR AREA DESIGN CONDITIONS												
GENERAL ROOMS	72	121	63	117	50	72	121	49	191	30		
PATIENT ROOMS	75	124	61	186	50	78	126	53	112	30		
DINING AREAS	72	121	63	117	50	72	121	49	191	30		
LOUNGE	72	121	63	117	50	72	121	49	191	30		
CONFERENCE ROOMS	72	121	63	117	50	72	121	49	191	30		
TOILET ROOMS	72	121	-	-	-	78	126	-	-	-		

RADANT CEILING PANEL SCHEDULE (ELECTRIC)											
MARK	ROOM LOCATION	AREA SERVED	PANEL SIZE			CAPACITY			POWER SUPPLY		REMARKS
			IN	INT	BTUH	W	AMPS	PHASE	VOLT		
1-FB-2-1	TUB ROOM	TUB ROOM	24 x 48	600 x 1200	2500	1790	4.0	1	208		...
1-FB-2-2	TUB ROOM	TUB ROOM	24 x 48	600 x 1200	2500	1790	4.0	1	208		...

FIRE AND SMOKE DAMPERS					
MARK	LOCATION	FAN SYSTEM	SYSTEM AIRDO SERVICE	DUCT SIZE	
				IN	OUT [mm]
1FDWR61	2ND FLOOR KITCHEN	1EF-1	EXHAUST	24 x 16	Ø90 x 400
1FDWR62	2ND FLOOR KITCHEN	14442	1.T10.2.12	24 x 14	Ø90 x 390