AIR SEPERATOR SCHEDULE

ITEM	MANUFACTURER	MODEL	GPM	SIZE LENGTH	SIZE DIAMETER	CV	REMARKS
AS-100	BELL & GOSSETT	RL-20	12,000	135-3/8"	60"	8000	NOTE 1

NOTES: 1. UNIT SHALL BE FLOOR MOUNTED. PROVIDE FLOOR MOUNTED STAND.

CONTROL AIR COMPRESSOR SCHEDULE

ITEM	MANUFACTURER	MODEL	CFM	TANK SIZE	MOTOR HP	MOTOR VOLT/PH/HZ	REMARKS
CAC-100	QUINCY		150	240	2 - 30 HP	460/3/60	

NOTES: 1. PROVIDE DUPLEX CONTROL COMPRESSOR WITH (2) REFRIGERATED DRYERS, PRV VALVES, PRESSURE GAUGES, CONTROLLER PANEL, STARTER, AND DISCONNECT.

WATER COOLED ELECTRIC CENTRIFUGAL CHILLER SCHEDULE

ITEM	MANUFACTURER	MODEL	CAPACITY TONS	EVAPORATOR DATA EWT	EVAPORATOR DATA LWT	EVAPORATOR DATA GPM	EVAPORATOR DATA FD FT HD	CONDENSER DATA EWT	CONDENSER DATA LWT	CONDENSER DATA GPM	CONDENSER DATA FD FT HD	MINIMUM COND ENT F	MAXIMUM KW/TON	DISSIGN NPLV	ELECTRICAL DATA CHILLER KW	ELECTRICAL DATA CHILLER FLA	ELECTRICAL DATA VOLT	ELECTRICAL DATA PHASE	CONTROL CIRCUIT VOLT	CONTROL CIRCUIT PHASE	REMARKS
CH-1	TRANE	CVHF	1200	56	44	2400		85	95	3600		70	0.526	0.438			4160	3	120	1	
CH-2	TRANE	CVHF	1200	56	44	2400		85	95	3600		70	0.526	0.438			4160	3	120	1	

NOTES:

COOLING TOWER SCHEDULE

ITEM	MANUFACTURER	MODEL	GPM	EWT	LWT	ENT AIR WB	STATIC LIFT	ELECTRICAL DATA FAN MOTOR HP	ELECTRICAL DATA COLLECTION BASIN HEATER KW	ELECTRICAL DATA VOLTS	ELECTRICAL DATA PH	TOTAL OPERATING WEIGHT	REMARKS
CT-1A	MARLEY	NC 8311CL2	1,800	95.00	85.00	78	19.07	50	18	460	3	36,000 LB	NOTES 1 -9
CT-1B	MARLEY	NC 8311CL2	1,800	95.00	85.00	78	19.07	50	18	460	3	36,000 LB	NOTES 1 -9
CT-2A	MARLEY	NC 8311CL2	1,800	95.00	85.00	78	19.07	50	18	460	3	36,000 LB	NOTES 1 -9
CT-2B	MARLEY	NC 8311CL2	1,800	95.00	85.00	78	19.07	50	18	460	3	36,000 LB	NOTES 1 -9

NOTES:
1. COOLING TOWER DIMENSIONS: EACH CELL 22'-5"LONGx11'-11"WIDEx19'-10"HIGH
2. PROVIDE WITH FIVE POINT ELECTRIC LEVEL CONTROL INCLUDING HIGH AND LOW LEVEL ALARMS.
3. PROVIDE PREMIUM EFFICIENCY MOTORS COMPATIBLE WITH VARIABLE FREQUENCY DRIVES.
4. PROVIDE WITH MANUFACTURER'S 304 STAINLESS STEEL COLLECTION BASIN.
5. PROVIDE OSHA APPROVED HAND RAILS, KNEE RAILS, TOE PLATE, AND ALUMINUM ACCESS LADDER. ACCESS LADDER FOR CT-1A ONLY.
6. PROVIDE INTERNAL PLENUM WALKWAY AND EQUIPMENT PLATFORMS.
6. PROVIDE WITH FAN VIBRATION SWITCH
7. PROVIDE STEEL BASE MOUNTS AND VIBRATION ISOLATION PER MANUFACTURER'S RECOMMENDATIONS.
8. PROVIDE TOWER WITH DEPRESSED STAINLESS STEEL SIDE OUTLET SUMP CONNECTION WITH ANTI VORTEX PLATE
9. PROVIDE EQUALIZER FLUME WEIR GATES WITH REMOVABLE, GASKETED, ISLOATION PLATES.

CHILLED WATER CONTROL VALVE SCHEDULE

ITEM	MANUFACTURER	SERVICE	MODEL	FLOW (GPM)	Valve PD (PSI)	Required MIN Cv	CLOSE OFF PRESS. (PSI)	VALVE BODY SIZE (INCHES)	FAIL POSITION	ACTUATOR TYPE	REMARKS
V-1		COND. WTR. (CH-1)	BTFY	4050				16	LAST	PNEUMATIC	
V-2		CHILL. WTR. (CH-1)	BTFY	2700				12	LAST	PNEUMATIC	
V-3		COND. WTR. (CH-1)	BTFY	4050				16	LAST	PNEUMATIC	
V-4		CHILL. WTR. (CH-1)	BTFY	2700				12	LAST	PNEUMATIC	
V-5		COND. WTR. (CT-1)	BTFY	2025				10	CLOSED	ELECTRIC	
V-6		COND. WTR. (CT-1)	BTFY	2025				10	CLOSED	ELECTRIC	
V-7		COND. WTR. (CT-1)	BTFY	2025				10	CLOSED	ELECTRIC	
V-8		COND. WTR. (CT-1)	BTFY	2025				10	CLOSED	ELECTRIC	
V-9		COND. WTR. (CT-2)	BTFY	2025				10	CLOSED	ELECTRIC	
V-10		COND. WTR. (CT-2)	BTFY	2025				10	CLOSED	ELECTRIC	
V-11		COND. WTR. (CT-2)	BTFY	2025				10	CLOSED	ELECTRIC	
V-12		COND. WTR. (CT-2)	BTFY	2025				10	CLOSED	ELECTRIC	
V-13		COND. WTR. BY-PASS	BTFY	2025				10	CLOSED	PNEUMATIC	
V-14		COND. WTR. MAKE-UP	GLOBE	200				4	OPEN	PNEUMATIC	
V-15		COND. WTR. BLOWDOWN	GLOBE	25				1	CLOSED	ELECTRIC	NOTE 1

NOTES: 1. PROVIDED BY CHEMICAL WATER TREATMENT CONTRACTOR

EXPANSION TANK SCHEDULE

ITEM	MANUFACTURER	MODEL	LOCATION	SERVICE	TYPE	ACCEPT. CAP.	INITIAL FILL PRESSURE	SIZE LENGTH	SIZE DIAMETER	REMARKS
ET-100	WESSELS	NLA-HP-3000L	CHILLER PLANT	CHILLED WATER	BLADDER	792	-	122	48	
ET-101	WESSELS	NLA-HP-3000L	CHILLER PLANT	CHILLED WATER	BLADDER	792	-	122	48	
ET-102	WESSELS	NLA-HP-3000L	CHILLER PLANT	CHILLED WATER	BLADDER	792	-	122	48	

NOTES: 1. ET TANKS SHALL BE 175 PSIG RATED CONSTRUCTION

PUMP SCHEDULE

ITEM	MANUFACTURER	MODEL	SIZE	TYPE	GPM	HEAD FT	HEAD PSIG	MOTOR DATA HP	MOTOR DATA V	MOTOR DATA PH	MOTOR DATA RPM	REMARKS
P-1	BELL & GOSSETT	HSC-3	10x12x14	HORZ. SPLIT CASE	4800	168		250	460	3	1785	SEC. CHILLED WATER, NOTE 1
P-2	BELL & GOSSETT	HSC-3	10x12x14	HORZ. SPLIT CASE	4800	168		250	460	3	1785	SEC. CHILLED WATER, NOTE 1
P-3	BELL & GOSSETT	HSC-3	10X12X12M	HORZ. SPLIT CASE	2400	55		50	460	3	1780	PRIMARY CHILLED WATER
P-4	BELL & GOSSETT	HSC-3	10X12X12M	HORZ. SPLIT CASE	2400	55		50	460	3	1780	PRIMARY CHILLED WATER
P-5	BELL & GOSSETT	HSC-3	10X12X12M	HORZ. SPLIT CASE	2400	55		50	460	3	1780	PRIMARY CHILLED WATER
P-6	BELL & GOSSETT	HSC-3	10X12X12XL	HORZ. SPLIT CASE	3600	65		100	460	3	1780	CONDENSER WATER
P-7	BELL & GOSSETT	HSC-3	10X12X12XL	HORZ. SPLIT CASE	3600	65		100	460	3	1780	CONDENSER WATER
P-8	BELL & GOSSETT	HSC-3	10X12X12XL	HORZ. SPLIT CASE	3600	65		100	460	3	1780	CONDENSER WATER
BFP-1	DOMESTIC	628DB	-	END SUCTION	200		175	40	460	3		BOILER FEED WATER - 3FT NPSH
BFP-2	DOMESTIC	628DB	-	END SUCTION	200		175	40	460	3		BOILER FEED WATER - 3FT NPSH
BFP-3	DOMESTIC	628DB	-	END SUCTION	200		175	40	460	3		BOILER FEED WATER - 3FT NPSH
BFP-4	DOMESTIC	628DB	-	END SUCTION	200		175	40	460	3		BOILER FEED WATER - 3FT NPSH
BP-1	DOMESTIC	HB-17	658		350		50	15	460	3		BOOSTER PUMPS - 2FT NPSH
BP-2	DOMESTIC	HB-17	658		350		50	15	460	3		BOOSTER PUMPS - 2FT NPSH

NOTES: 1. SECONDARY CHILLED WATER PUMPS SHALL BE 300 PSIG CONSTRUCTION.

CONDENSER WATER FILTRATION SYSTEM SCHEDULE

ITEM	MANUFACTURER	MODEL	MAX GPM	PUMP HP	BACKFLUSH GPM	ELECTRICAL DATA VOLTS	ELECTRICAL DATA PHASE	ELECTRICAL DATA HZ	NOTES
WFS-100	DIAMOND WATER SYSTEMS	TSA-230	200	5	45	460	3	60	1,2,3

NOTES:
1. HIGH EFFICIENCY WATER FILTERS - 1/2 MICRON
2. TWO VESSEL SYSTEM
3. STAINLESS STEEL VESSELS

WATER FLOW STATION SCHEDULE

ITEM	MANUFACTURER	MODEL	TYPE	GPM	PIPING DIA	SYSTEM SERVED	PD	REMARKS
FS-1	PRESO	SERIES LPL	VENTURI	7,200	18"	SECONDARY CHILL. WTR.		NOTE 1
FS-2	PRESO	SERIES LPL	VENTURI	3,600	14"	CH-1 COND. WTR.		NOTE 1
FS-3	PRESO	SERIES LPL	VENTURI	2,400	12"	CH-1 CHILL. WTR		NOTE 1
FS-4	PRESO	SERIES LPL	VENTURI	3,600	14"	CH-2 COND. WTR.		NOTE 1
FS-5	PRESO	SERIES LPL	VENTURI	2,400	12"	CH-2 CHILL. WTR		NOTE 1

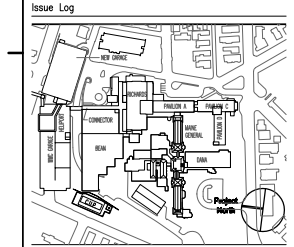
NOTES: 1. FLOW STATION SHALL BE PROVIDED WITH THE FOLLOWING ACCESSORIES
A. PRESSURE TRANSDUCER WITH 4-20 mA OUTPUT SIGNAL PRESO MODEL NO. - TEN 4301..
B. DIGITAL FLOW RATE INDICATOR, PRESO MODEL NO. RI-210
C. STAINLESS STEEL 3 VALVE MANIFOLD. PRESO MODEL NO. 3-VAL-SS-2

General Notes:

MARK	ISSUE DATE	DESCRIPTION
PERMIT	09/24/04	PERMIT SET - NOT FOR CONSTRUCTION

FOR PERMIT ONLY - NOT FOR CONSTRUCTION

Issue Log



Key Plan

TRO
Architecture
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The Fitzhile Organization
83 Bridge Street
Newton, MA 02465-1134
617-969-9480

Maine Medical Center
Central Utility Plant
Portland, Maine

Drawing Title
MECHANICAL - CENTRAL UTILTITY PLANT EQUIPMENT SCHEDULE SHEET NO.1

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Commission No.	4677	Date Issued	
Scale	NTS	Sheet Number	
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