

OUTDOOR UNIT SCHEDULE

TAG	AREA SERVED	NOM. TONS	COOLING			CONDENSER FAN		COMPRESSORS		ELECTRIC (TOTAL LOAD)			REFRIGERANT	WEIGHT LBS	REMARKS
			BTU	AMBIENT	KW	QUAN.	CFM	QUAN.	KW	POWER	MCA	BRKR			
OU-1	ALL AIR HANDLERS	6.0	72,000	95°	17.20	1	6,180	1	5.30	208V-60-3P	59	60	R410A	497	MOUNT ON ROOF

AIR HANDLER SCHEDULE

TAG	AREA SERVED	OU NO.	NOM. TONS	CFM	EXT. S.P.	ELECTRIC			COOLING*		HEATING**		REFRIGERANT			WEIGHT LBS	REMARKS
						POWER	MCA	BTU	KW	BTU	KW	TYPE	LIQUID	GAS			
AH-1	10 CORRIDOR	OU-1	0.60	260	0.00"	208/230V-60-1P	0.40	7,500	0.020	8,500	0.003	R410A	1/4	1/2	26	VERTICAL WALL MTD	
AH-2	12 OFFICE	OU-1	0.60	260	0.00"	208/230V-60-1P	0.40	7,500	0.020	8,500	0.003	R410A	1/4	1/2	26	VERTICAL WALL MTD	
AH-3	15 COMMON	OU-1	1.00	290	0.00"	208/230V-60-1P	0.40	12,000	0.030	13,500	0.047	R410A	1/4	1/2	26	VERTICAL WALL MTD	
AH-4	16 TELE-MED	OU-1	0.60	260	0.00"	208/230V-60-1P	0.40	7,500	0.020	8,500	0.003	R410A	1/4	1/2	26	VERTICAL WALL MTD	
AH-5	18 LAUNDRY	OU-1	0.60	260	0.00"	208/230V-60-1P	0.40	7,500	0.020	8,500	0.003	R410A	1/4	1/2	26	VERTICAL WALL MTD	
AH-6	20 CORRIDOR	OU-1	0.60	260	0.00"	208/230V-60-1P	0.40	7,500	0.020	8,500	0.003	R410A	1/4	1/2	26	VERTICAL WALL MTD	
AH-7	30 CORRIDOR	OU-1	0.60	260	0.00"	208/230V-60-1P	0.40	7,500	0.020	8,500	0.003	R410A	1/4	1/2	26	VERTICAL WALL MTD	
AH-8	40 CORRIDOR	OU-1	0.60	260	0.00"	208/230V-60-1P	0.40	7,500	0.020	8,500	0.003	R410A	1/4	1/2	26	VERTICAL WALL MTD	

* COOLING CAPACITIES BASED ON 80/67 DEG. F. ENTERING AIR & 95 DEG. F. AT THE CONDENSER (OUTDOOR UNIT)
 ** HEATING CAPACITIES BASED ON 70 DEG. F. INDOOR AND 47 DB & 43 WB DEG. F. AT THE CONDENSER (OUTDOOR UNIT)

FAN SCHEDULE

TAG	AREA SERVED	TYPE	CFM	SP	SONES	RPM	WATTS	HP	ELECTRIC	WEIGHT	REMARKS
EF	BATHROOMS	CEILING	91	1/4"	0.5	1,161	21	-----	120V-60-1P	11	OPERATE FROM WALL SWITCH w/HUMIDITY SENSOR**
EF-1	ELEV. MACH.	CEILING	200	1/4"	2.0	1,149	69	-----	120V-60-1P	31	OPERATE FROM REVERSE ACTING THERMOSTAT
RH	KITCHENS	RANGE HOOD	220	-----	1.5	-----	216	-----	120V-60-1P	-----	OPERATE FROM INTERNAL CONTROLS
SF-1	17 MECHANICAL	PROPELLER	663	1/4"	10.0	1,140	-----	1/6	120V-60-1P	94	OPERATE FROM REVERSE ACTING THERMOSTAT

SONE RATINGS ARE MINIMUMS NOT TO BE EXCEEDED HVI SONE RATINGS WILL NOT BE ACCEPTED

UNIT HEATER SCHEDULE

TAG	TYPE	AREA SERVED	E.W.T.	E.A.T.	MBH	GPM	W.P.D.	CFM	MOTOR WATTS	ELECTRIC	REMARKS
CUH-1	VERT. CABINET	13 VESTIBULE	160°	60°	7.91	1.00	0.45'	106	40	120V-60-1P	WALL MOUNTED 84" AFF TO BOTTOM
CUH-2	VERT. CABINET	EAST STAIR	160°	60°	15.01	1.00	0.58'	221	80	120V-60-1P	WALL MOUNTED 84" AFF TO BOTTOM
CUH-3	VERT. CABINET	WEST STAIR	160°	60°	15.01	1.00	0.58'	221	80	120V-60-1P	WALL MOUNTED 84" AFF TO BOTTOM
UH-1	HORIZONTAL	17 MECHANICAL	160°	60°	4.86	0.80	0.80'	210	16	120V-60-1P	HORIZONTAL PROPELLER STYLE
UH-2	HORIZONTAL	06 TRASH	160°	60°	4.86	0.80	0.80'	210	16	120V-60-1P	HORIZONTAL PROPELLER STYLE

PUMP SCHEDULE

TAG	TYPE	AREA SERVED	GPM	HEAD	HP	RPM	WATTS	ELECTRIC	REMARKS
P1	IN-LINE	BOILER #1 INJECTION	30	8'	3/4	1,400 -> 4,600	21 -> 620	230V-60-1P	INVERTER MOTOR
P2	IN-LINE	BOILER #2 INJECTION	30	8'	3/4	1,400 -> 4,600	21 -> 620	230V-60-1P	INVERTER MOTOR
P3	IN-LINE	BUILDING HEATING SYSTEM	60	16'	3/4	1,400 -> 4,600	21 -> 620	230V-60-1P	INVERTER MOTOR
P4	IN-LINE	BUILDING HEATING SYSTEM	60	16'	3/4	1,400 -> 4,600	21 -> 620	230V-60-1P	INVERTER MOTOR
P5	IN-LINE	DOMESTIC HOT WATER	12	16'	1/8	3,100	215	120V-60-1P	INVERTER MOTOR

FINNED PIPE SCHEDULE

TAG	TYPE	ELEMENT	LENGTH	EWT	BTU/LF	GPM	REMARKS
FP	9" COVER	3/4" COPPER TUBE 3/4" x 3/4" FINNED	SEE PLANS	160°	565	0.57 PER MBH 1.0 MINIMUM	RESIDENTIAL STYLE HIGH OUTPUT

BOILER SCHEDULE

TAG	GROSS MBH	NET MBH	HP	FUEL	RELIEF VALVE	WATER CONTENT	ELECTRIC		REMARKS
							AMPS	VOLTAGE	
B-1	371.0	323.0	11.1	L.P. GAS	40 psig	4.0 GAL	8	120V-60-1P	CONDENSING GAS BOILER
B-2	371.0	323.0	11.1	L.P. GAS	40 psig	4.0 GAL	8	120V-60-1P	CONDENSING GAS BOILER

CONVECTOR SCHEDULE

TAG	TYPE	MBH	EWT	MIN GPM	LENGTH	HEIGHT	DEPTH	REMARKS
C-1	FULLY RECESSED	1.10	160°	0.50	20"	14"	4"	FRONT RETURN GRILLE

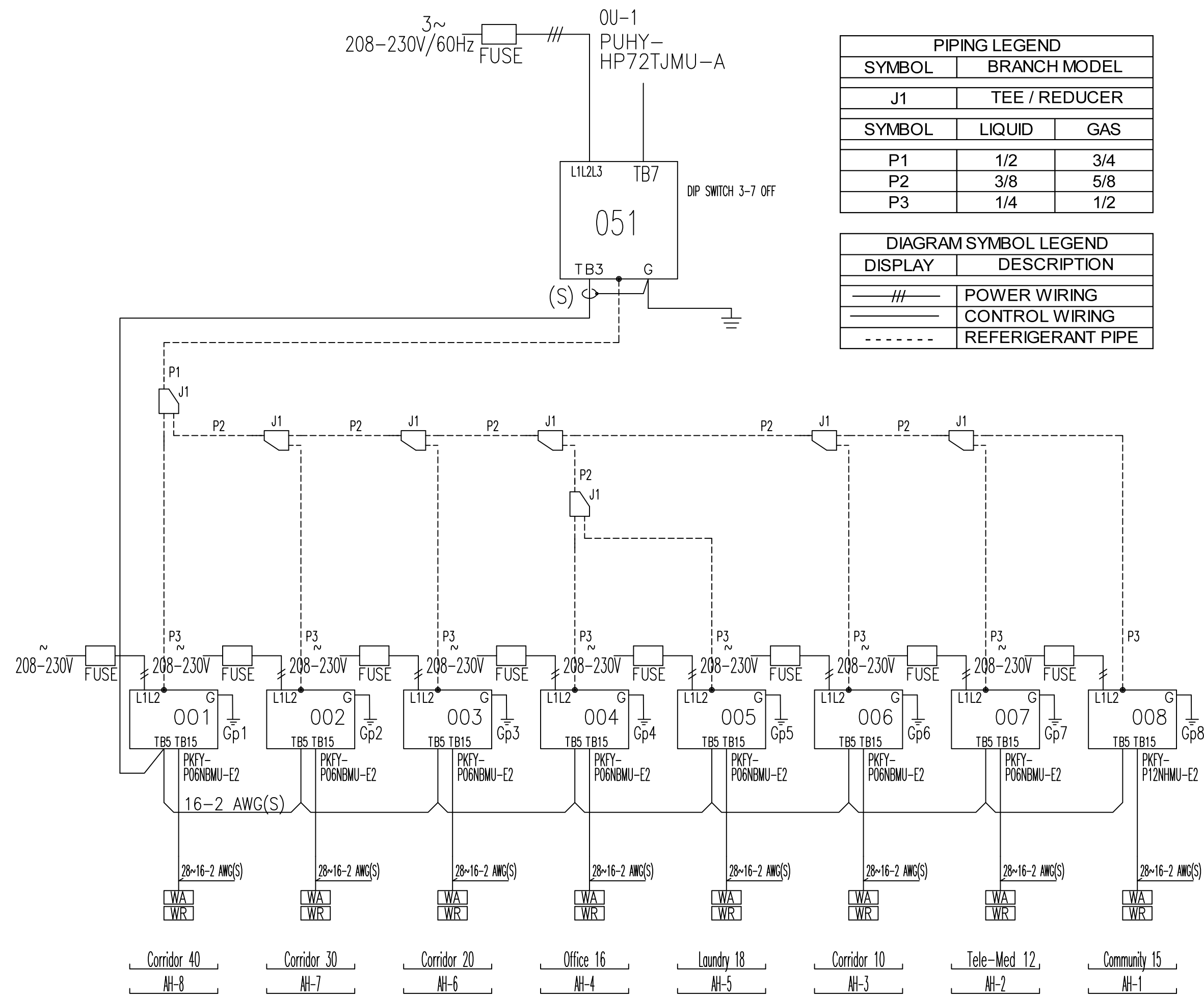
CAPACITIES ARE ADJUSTED FOR ENTERING WATER TEMPERATURE AND INLET GRILLES (WHERE PRESENT)

GENERAL NOTES

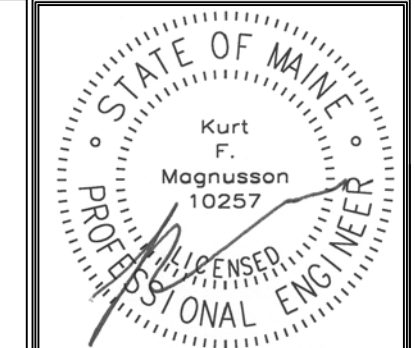
- Mechanical Contractor shall coordinate work with all other trades.
- All piping and ductwork shall be run concealed and on the warm side of the building insulation unless shown otherwise.
- Piping and ductwork is shown diagrammatically. Exact locations to be adjusted as required to conform to field conditions.
- All duct sizes indicated are outside (sheet metal) dimensions.
- All cutting and patching by the General Contractor.
- All duct coils and motorized dampers shall have duct access doors as large as possible up to 12"x12".
- Heating system design is based on 160°F. water entering the heating equipment.
- All branch water piping to individual terminal heating units or zones shall be not less than 3/4 inches in size unless noted otherwise.
- Provide air vents at all locations where water piping drops in the direction of flow, at all high points in the system and elsewhere as shown.
- Provide drains with a ball cock, hose threads and metal caps at all low points in the water piping system.

SYMBOLS AND ABBREVIATIONS

ABV	AUTOMATIC BALANCING VALVE	LAT	LEAVING AIR TEMPERATURE	---	WATER SUPPLY PIPING
AC	AIR CONDITIONING	LDB	LEAVING DRY BULB	- - - - -	WATER RETURN PIPING
AD	ACCESS DOOR	LWB	LEAVING WET BULB	- - - - -	COLD WATER PIPING
AFF	ABOVE FINISH FLOOR	LWCO	LOW WATER CUT-OFF	- - - - -	REFRIGERANT LIQUID PIPING
AP	ACCES PANEL	MBH	THOUSAND BTU PER HOUR	- - - - -	REFRIGERANT SUCTION PIPING
APD	AIR PRESSURE DROP	MBV	MANUAL BALANCING VALVE	---	PIPE ANCHOR
ATC	AUTOMATIC TEMP. CONTROL	MD	MANUAL DAMPER	---	DRAIN PIPING
AV	AUTOMATIC VENT	MOD	MOTOR OPERATED DAMPER	X	UNION
B	BOILER	MF	MONOFLOW FITTING	---	HOSE CONNECTION
BD	BACKDRAFT DAMPER	MV	MANUAL VENT	---	FLANGE
CD	CONDENSATE DRAIN	NG	NATURAL GAS	---	GATE VALVE
CFH	CUBIC FEET PER HOUR	NTS	NOT TO SCALE	---	GLOBE VALVE
CFM	CUBIC FEET PER MINUTE	OA	OUTDOOR AIR	---	CHECK VALVE
CP	CONDENSATE PUMP	OD	OUTSIDE DIMENSION	---	BALANCING VALVE
CUH	CABINET UNIT HEATER	OU	OUTDOOR UNIT	---	CONTROL VALVE (TWO WAY)
CV	CONTROL VALVE	P	PUMP	---	PRESSURE REDUCING VALVE
D	DRAIN	PC	PLUMBING CONTRACTOR	---	RETURN
DIC	DOWN IN CORNER/CHASE	PD	PUMP DISCHARGE	---	RA
DO	DRAW-OFF	PG	PRESSURE GAUGE	---	RETURN AIR
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE	---	REFRIGERANT LIQUID
EC	ELECTRICAL CONTRACTOR	R	RETURN	---	REFRIGERANT SUCTION
EDB	ENTERING DRY BULB	RA	RETURN AIR	---	RELIEF VALVE
EF	EXHAUST FAN	RL	REFRIGERANT LIQUID	---	SUPPLY
EG	EXHAUST GRILLE	RS	REFRIGERANT SUCTION	---	SUPPLY AIR
ER	EXHAUST REGISTER	RV	RELIEF VALVE	---	SITE CONTRACTOR
ESP	EXTERNAL STATIC PRESSURE	S	SUPPLY	---	SUPPLY CONTRACTOR
EWB	ENTERING WET BULB	SA	SUPPLY AIR	---	SUPPLY FAN
EWT	ENTERING WATER TEMPERATURE	SC	SITE CONTRACTOR	---	SIGHT FLOW MONITOR
FC	FLEXIBLE CONNECTOR	SF	SUPPLY FAN	---	SUPPLY GRILLE
FCV	FLOW CONTROL VALVE	SFM	SIGHT FLOW MONITOR	---	STATIC PRESSURE
FP	FINNED PIPE	SG	SUPPLY GRILLE	---	STATIC PRESSURE
FS	FLOW SENSOR	SP	STATIC PRESSURE	---	SAFETY VALVE
FV	FACE VELOCITY	SV	SAFETY VALVE	---	THERMOMETER
GC	GENERAL CONTRACTOR	T	THERMOMETER	---	THERMOMETER
GPH	GALLONS PER HOUR	TC	TEMPERATURE CONTROL	---	TEMPERATURE CONTROL
GPM	GALLONS PER MINUTE	TSP	TOTAL STATIC PRESSURE	---	TOTAL STATIC PRESSURE
HC	HEATING CONTRACTOR	T'STAT	THERMOSTAT	---	THERMOSTAT
HWR	HOT WATER RETURN	UH	UNIT HEATER	---	UNIT HEATER
HWS	HOT WATER SUPPLY	V	VENT	---	VENT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	VI	VIBRATION ISOLATOR	---	VIBRATION ISOLATOR
IER	INVERTED ECCENTRIC REDUCER	VRF	VARIABLE REFRIGERANT FLOW	---	VARIABLE REFRIGERANT FLOW
L	LOUVER	WPD	WATER PRESSURE DROP	---	WATER PRESSURE DROP
		WTD	WATER TEMPERATURE DROP	---	WATER TEMPERATURE DROP
		WTR	WATER TEMPERATURE RISE	---	WATER TEMPERATURE RISE



COOLING SYSTEM SCHEMATIC
NO SCALE



Prepared For:
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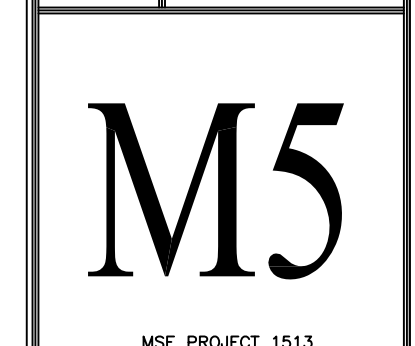
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MILLBROOK ESTATES APARTMENTS
 WESTBROOK, MAINE

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MECHANICAL EQUIPMENT SCHEDULES



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