

UNIT HEATER SCHEDULE

TAG	TYPE	AREA SERVED	E.W.T.	E.A.T.	MBH	GPM	W.P.D.	CFM	MOTOR HP	FAN RPM	ELECTRIC	REMARKS
CUH-1	VERT. CABINET	101 LOBBY	180	40	15.48	1.00	0.06'	230	1/15	1,050	120V-60-1P	FLOOR MTD, INVERTED AIR FLOW
CUH-2	VERT. CABINET	102 ELEVATOR LOBBY	180	40	15.48	1.00	0.06'	230	1/15	1,050	120V-60-1P	FLOOR MTD, INVERTED AIR FLOW
CUH-3	VERT. CABINET	STAIR #1	180	40	15.48	1.00	0.06'	230	1/15	1,050	120V-60-1P	FLOOR MTD, INVERTED AIR FLOW
CUH-4	VERT. CABINET	STAIR #2	180	40	15.48	1.00	0.06'	230	1/15	1,050	120V-60-1P	FLOOR MTD, INVERTED AIR FLOW

GPM RATINGS ARE MINIMUMS.

BOILER SCHEDULE

TAG	GROSS MBH	NET MBH	HP	FUEL	RELIEF VALVE	WATER CONTENT	ELECTRIC		WATER FLOW (GPM)		REMARKS
							VOLTAGE	AMPS	MIN.	MAX.	
B-1	1000.0	880.0	26	NAT. GAS	40 psig	14.0 GAL	120V-60-1P	8	15	150	LOW MASS CAST IRON CONDENSING BOILER
B-2	1000.0	880.0	26	NAT. GAS	40 psig	14.0 GAL	120V-60-1P	8	15	150	LOW MASS CAST IRON CONDENSING BOILER

FAN SCHEDULE

TAG	AREA SERVED	TYPE	CFM	SP	SONES	RPM	HP	WATTS	ELECTRIC	WEIGHT	REMARKS
EF	GENERAL PURPOSE	CEILING	80	0.100"	2.6	1250	-----	30	120V-60-1P	N/A	OPERATE FROM WALL SWITCHES BY H.C.
EF-1	CORRIDORS	ROOF CENT.	400	0.375"	7.1	1411	1/8	-----	120V-60-1P	58	OPERATE FROM COOLING T'STAT
RH	KITCHENS	RANGE HOODS	245	0.200"	5.5	1500	-----	135	120V-60-1P	N/A	OPERATE FROM INTERNAL SWITCHES
SF-1	MECHANICAL ROOM	ROOF PROP.	400	0.375"	10.8	1374	1/12	-----	120V-60-1P	131	OPERATE FROM COOLING T'STAT

SONE RATINGS ARE MINIMUMS NOT TO BE EXCEEDED. HVI SONE RATINGS ARE NOT ACCEPTABLE

WEIGHTS DO NOT INCLUDE ROOF CURBS

PUMP SCHEDULE

TAG	TYPE	AREA SERVED	GPM	HEAD	HP	RPM	ELECTRIC	REMARKS
P-1	HORIZ. IN-LINE	BOILER BLEND PUMP	100	15'	5/8	3150 - 3350	120V-60-1P	-----
P-2	HORIZ. IN-LINE	HEATING SYSTEM CIRCULATOR	60	20'	3/4	1400 - 4600	208V-60-1P	PRIMARY PUMP
P-3	HORIZ. IN-LINE	HEATING SYSTEM CIRCULATOR	60	20'	3/4	1400 - 4600	208V-60-1P	STAND-BY FOR P-2
P-4	HORIZ. IN-LINE	DOMESTIC WATER HEATER	10	25'	1/8	2750 - 3100	120V-60-1P	-----
P-5	HORIZ. IN-LINE	DOMESTIC WATER HEATER	10	25'	1/8	2750 - 3100	120V-60-1P	-----
P-6	HORIZ. IN-LINE	DOMESTIC WATER HEATER	10	25'	1/8	2750 - 3100	120V-60-1P	-----

CONVECTOR SCHEDULE

TAG	TYPE	MBH	GPM	LENGTH	HEIGHT	DEPTH	REMARKS
C-1	FULLY RECESSED	1.26	0.50	20"	14"	4"	FRONT RETURN GRILLE & 4 SIDE OVERLAPPING COVER
C-2	FULLY RECESSED	1.55	0.50	24"	14"	4"	FRONT RETURN GRILLE & 4 SIDE OVERLAPPING COVER
C-3	FLAT TOP WALL MTD	2.80	0.50	24"	18"	6"	FRONT OUTLET & BOTTOM INLET OPENING
C-4	FULLY RECESSED	4.32	0.50	36"	20"	6"	FRONT INLET GRILLE & 4 SIDE OVERLAPPING COVER




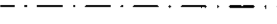



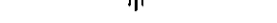
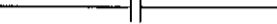







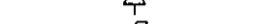







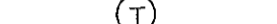
CAPACITIES BASED ON 180 DEG. ENT W/40 DEG. WTD (160 DEG. AWT) & ADJUSTED FOR INLET GRILLES (RECESSED UNITS).

FINNED PIPE SCHEDULE

TAG	TYPE	ELEMENT	LENGTH	BTU	GPM	REMARKS
FP	8.1/2" x 2.3/4" STEEL COVER	3/4" COPPER TUBE ALUMINUM FINIS	SEE PLANS	460 PER L.F.	1.0 MIN SEE PLANS	SINGLE TIER ELEMENT
FP-A	9.13/16" x 3.1/4" STEEL COVER	3/4" COPPER TUBE ALUMINUM FINIS	SEE PLANS	580 PER L.F.	1.0 MIN SEE PLANS	SINGLE TIER ELEMENT
FP-B	6.7/16" x 2.15/32" ALUMINUM COVER	1/2" COPPER TUBE ALUMINUM FINIS	SEE PLANS	300 PER L.F.	1.0 MIN SEE PLANS	SINGLE TIER ELEMENT FOR HIGH MOISTURE AREAS

CAPACITIES BASED ON 180 DEG. ENT W/40 DEG. DROP (160 DEG. AWT)

SYMBOLS AND ABBREVIATIONS

ABV	AUTOMATIC BALANCING VALVE	LDB	LEAVING DRY BULB		WATER SUPPLY PIPING
AD	ACCESS DOOR	LWCO	LOW WATER CUT-OFF		WATER RETURN PIPING
AFF	ABOVE FINISH FLOOR ACCESS PANEL	MBH	THOUSAND BTU PER HOUR		COLD WATER PIPING
AP	AIR PRESSURE DROP	MD	MANUAL DAMPER		PIPE ANCHOR
ATC	AUTOMATIC TEMP. CONTROL	MOD	MOTOR OPERATED DAMPER		DRAIN PIPING
AV	AUTOMATIC VENT	MV	MANUAL VENT		UNION
B	BOILER	NTS	NOT TO SCALE		FLANGE
BD	BACKDRAFT DAMPER	OA	OUTDOOR AIR		GATE VALVE
BV	BALANCING VALVE	OD	OUTSIDE DIMENSION		GLOBE VALVE
C	CONVECTOR	P	PUMP		CHECK VALVE
CFH	CUBIC FEET PER HOUR	PC	PLUMBING CONTRACTOR		BALANCING VALVE
CFM	CUBIC FEET PER MINUTE	PD	PUMP DISCHARGE		CONTROL VALVE (TWO WAY)
CUH	CABINET UNIT HEATER	PG	PRESSURE GAUGE		CONTROL VALVE (THREE WAY)
CV	CONTROL VALVE	PRV	PRESSURE REDUCING VALVE		PRESSURE REDUCING VALVE
D	DRAIN	R	RETURN		FLOW-CHECK VALVE
DIC	DOWN IN CORNER/CHASE	RA	RETURN AIR		BALL VALVE
DIFF	DIFFUSER	RIC	RETURN IN COVER		STRAINER
DIW	DOWN IN WALL	RR	RETURN REGISTER		ECCENTRIC REDUCER
DO	DRAW-OFF	RV	RELIEF VALVE		INVERTED ECCENTRIC REDUCER
EAT	ENTERING AIR TEMPERATURE	S	SUPPLY		THERMOSTAT
EC	ELECTRICAL CONTRACTOR	SA	SUPPLY AIR		THERMOSTAT WITH GUARD
EF	EXHAUST FAN	SC	SITE CONTRACTOR		MANUAL DAMPER
EG	EXHAUST GRILLE	SD	SMOKE DAMPER		FLEXIBLE DUCT
ER	EXHAUST REGISTER	SF	SUPPLY FAN		SUPPLY AIR DUCT
ENB	ENTERING WET BULB	SG	SUPPLY GRILLE		RETURN / RELIEF AIR DUCT
ENT	ENTERING WATER TEMPERATURE	SP	STATIC PRESSURE		
FC	FLEXIBLE CONNECTOR	SR	SUPPLY REGISTER		
FCV	FLOW CONTROL VALVE	SV	SAFETY VALVE		
FD	FIRE DAMPER	T	THERMOMETER		
FP	FINNED PIPE	TC	TEMPERATURE CONTROL		
FV	FACE VELOCITY	TCP	TEMPERATURE CONTROL PANEL		
GC	GENERAL CONTRACTOR	TSP	TOTAL STATIC PRESSURE		
GPH	GALLONS PER HOUR	T'STAT	THERMOSTAT		
GPM	GALLONS PER MINUTE	UC	UNDERCUT		
GV	GATE VALVE	UG	UNDERGROUND		
HC	HEATING CONTRACTOR	UH	UNIT HEATER		
HWR	HOT WATER RETURN	UIC	UP IN CHASE		
HWS	HOT WATER SUPPLY	V	VENT		
H&V	HEATING & VENTILATING	VI	VIBRATION ISOLATOR		
IER	INVERTED ECCENTRIC REDUCER	WPD	WATER PRESSURE DROP		
L	LOUVER	WTD	WATER TEMPERATURE DROP		
LAT	LEAVING AIR TEMPERATURE	WTR	WATER TEMPERATURE RISE		

GENERAL NOTES

- HVAC Contractor shall coordinate work with all other trades.
- All piping and ductwork shall be run concealed and on warm side of building insulation unless noted otherwise.
- Piping and ductwork is shown diagrammatically. Exact locations to be adjusted as required to suit field conditions.
- All duct sizes indicated are outside (sheet metal) dimensions.
- All cutting and patching shall be provided by General Contractor.
- All square elbows in ductwork shall have turning vanes.
- Refer to reflected ceiling plans for exact locations of all ceiling registers, diffusers and grilles.
- All fire dampers and motor operated dampers shall have duct access doors as large as possible up to 12"x12"
- All dimensions are approximate and are to be verified in the field.
- Heating systems designed for 180°F. water leaving the boilers with a 40°F. temperature drop throughout the system.
- All branch water piping to individual terminal heating units to be not less than 3/8" unless noted otherwise.
- All reductions in water pipe sizes in the direction of flow shall be accomplished with inverted eccentric reducers. Reducing tee fittings are not acceptable.
- Provide automatic air vents at all locations where water piping drops in the direction of flow, at all high points and elsewhere as indicated on drawings.
- Provide drains at all low points in the water piping system.



OWNER:
53 DANFORTH STREET, LP
C/O THE SZANTON COMPANY
ONE CITY CENTER - 4TH FLOOR
PORTLAND, ME 04101

ARCHETYPE, P.A.
ARCHITECTS
48 Union Wharf Portland, Maine 04101
(207) 772-6022 Fax (207) 772-4056

53 DANFORTH
53 DANFORTH STREET
PORTLAND, MAINE

Project:	AS NOTED
Date:	28 MAY 2008
Scale:	AS NOTED
Revisions:	28 May 2008 - 50% MSHA Submittal 1 July 2008 - 90% MSHA Submittal 15 July 2008 - Pricing Set 25 July 2008 - 100% MSHA Submittal

PROGRESS SET
MECHANICAL
EQUIPMENT
SCHEDULES

M3.01

MECHANICAL SYSTEMS ENGINEERS
ROYAL RIVER CENTER, UNIT #10
10 FOREST FALLS DRIVE
YARMOUTH, MAINE 04096
VOICE: (207) 846-1441
FAX: (207) 846-1443
mechsys@maine.net
© COPYRIGHT 2008