AIR HANDLING UNIT SCHEDULE (INSIDE)

TAG	AREA SERVED	AIRFLOW (CFM)	MIN. OA. (CFM)	SUPPLY FAN: FAN TYPE	T.S.P. (IN. WG)	E.S.P. (IN. WG)	FAN DIA. (INCHES)	RPM	ELECTRICAL REQUIREMENTS: HP	BHP	V/PH	VFD (1)	COIL DATA: DIRECT EXPANSION COIL DATA: FACE AREA SQ. FT.	ROWS	EAT °F DB/WB	LAT °F	HOT WATER HEATING COIL DATA: MBH	EAT °F	LAT °F	EWT °F	LWT °F	APD IN-W.C.	GPM	WPD FT-W.C.	FILTERS	ENERGY RECOVERY WHEEL	OUTSIDE AIR PLENUM	MIXING BOX	EXHAUST AIR PLENUM	ANGLED FILTER	INTERNAL FACE AND BYPASS	SUPPLY FAN	MEDIUM ACCESS	SMALL ACCESS	HOT WATER COIL SECTION	DX COIL SECTION	DISCHARGE PLENUM	LARGE ACCESS	TYP. UNIT MFG. & MODEL NO.	NOTES
AHU-1	NORTH WING OFFICES – VAV	11,900	(2)	PLUG FAN	3.06	1.50	33	1132	15	10.32	460/3	YES	24.4	4	80/67	59.9	444	40	74.9	120	79.7	.35	22.2	1.7	PLEATED – 2" 30% – TA	MODULES IN AIRFLOW SEQUENCE:													YORK AP-250	
																											1		2	8	5	4/6	3	9	7	10			
																											P		S	S	S	S	S	S	S+D	P			
AHU-2	CORE AREA OFFICES – VAV	18,300	–	PLUG FAN	2.76	1.50	40	912	15	12.18	460/3	YES	39.9	4	80/67	59.2	501.3	40	65.1	120	79.8	.19	25.1	10.1	PLEATED – 2" 30% – TA	MODULES IN AIRFLOW SEQUENCE:													YORK AP-400	
																											1		2	8	5	6	3	9	7	10	4		
																											P+D		S	S	S	S	S	S	S+D	P	S		
HRV-1 SUPPLY	LABS – WORK SPACES – 100% OA	20,060 (3)	100%	PLUG FAN	4.60	1.00	31.5	1540	25	22.06	460/3	NO	41.25	8	66.8/61.6	51.7	663.4	51.8	85.5	120	79.4	.24	32.9	3.66	12 EACH 20"x24"	MODULES IN AIRFLOW SEQUENCE:													SEMCO EPD-24	
																									5/10	1			4		2	3/6		7	8	11	9		
																									S	S			S		S	S		S	S	S	S		
HRV-1 EXHAUST	LAB – WORK SPACES – EXHAUST	20,060 (3)	N/A	PLUG FAN	4.00	1.00	31.5	1496	25	19.7	460/3	NO	–	–	–	–	–	–	–	–	–	–	–	–	8 EACH 24"x24"	MODULES IN AIRFLOW SEQUENCE:													SEMCO EPD-24	
																									3/5			1	2		7	4				8	6		
																									S			S	S		S	S				S	S		

NOTES: (1) VFD, IF REQ'D, BY DIV. 15. (2) DETERMINED BY CO2 SENSOR. (3) INCLUDES PURGES OF 3160 CFM.

P = PERFORATED INNER WALL S = SOLID INNER WALL D = STAINLESS STEEL DRAIN PAN

FAN SCHEDULE

TAG	LOCATION	SERVICE	TYPE	ROOF OPENING	CFM	SP IN W.G.	DIAMETER IN.	RPM	ELECTRICAL DATA: BHP / HP	VOLTS	PH	VFD	TYPICAL UNIT MFG & MODEL NO.	NOTES
EF-1	MECH ROOM 401	BATHROOM EXHAUST	INLINE CENTRIFUGAL	N/A	2875	.50	18	960	.57 / 3/4	460	3	NO	COOK 180SQN-B	
EF-2	AIR COMPRESSOR ROOM 150	AIR COMP. HEAT EXHAUST	CEILING FAN	N/A	240	.50	8	1057	108W / .062	120	1	NO	COOK GC-520	(1)
EF-3	JANITOR CLOSET 149	EXHAUST	CEILING FAN	N/A	100	.50	9	1439	58W / .009	120	1	NO	COOK GC-140	(1)
EF-4	MECH. RM. 404	MECH. RM. VENTILATION	PROPELLER IN DUCT	N/A	3500	.25	20	1075	.43 / .50	120	1	NO	COOK 20A17DB	
EF-5-8	MECH. RM. 150,401&404	UNDER SLAB VENTILATION	CENTRIFUGAL INLINE	N/A	150	.20	9.75	2761	58W / 75W	120	1	NO	FAN TECH FR 110	(1)
EF-9	ELEC. RM. 148	HEAT REMOVAL	PROPELLER WALL	N/A	1000	.25	12	1615	.19 / .25	120	1	NO	COOK 12S15D	(1)

NOTES: (1) SOLID STATE SPEED CONTROL.

PUMP SCHEDULE

TAG	LOCATION	SERVICE	GPM	HD (FT.)	BHP	ELECTRICAL DATA: HP	RPM	VOLTS	PH	VFD	TYPICAL UNIT MFG & MODEL NO.	NOTES:
P-1	MECHANICAL ROOM	PRIMARY HEATING CIRCULATOR	240	40	3.2	5	1760	460	3	YES	TACO KV3007	(2)
P-2	MECHANICAL ROOM	BACK-UP HEATING CIRCULATOR	240	40	3.2	5	1760	460	3	YES	TACO KV3007	(2)
P-3	MECHANICAL ROOM	DHW BOILER INJECTION	10	10	–	1/15	3250	120	1	NO	TACO 0010	
P-4												
P-5												
P-6												

NOTES: (1) BRONZE FITTED FOR DOMESTIC WATER USE. (2) VFD BY DIVISION 16.

MODULAR RADIANT PANEL

TAG	LOCATION	GPM	MTBU	EWT	LWT	EAT	SIZE: L	W	STYLE	TYPICAL UNIT MANUF. & MODEL NO.	NOTES:
MRP-1	MEN'S RESTROOM – 107	1.0	.40	120	100	70	48	24	6 PASS	STERLING MOD. RAD. PANEL	(1)
MRP-2	MEN'S RESTROOM – 107	1.0	.40	120	100	70	48	24	6 PASS	STERLING MOD. RAD. PANEL	(1)
MRP-3	WOMEN'S RESTROOM – 106	1.0	.40	120	100	70	48	24	6 PASS	STERLING MOD. RAD. PANEL	(1)
MRP-4	WOMEN'S RESTROOM – 106	1.0	.40	120	100	70	48	24	6 PASS	STERLING MOD. RAD. PANEL	(1)
MRP-5	MEN'S RESTROOM – 207	1.0	.40	120	100	70	48	24	6 PASS	STERLING MOD. RAD. PANEL	(1)
MRP-6	MEN'S RESTROOM – 207	1.0	.40	120	100	70	48	24	6 PASS	STERLING MOD. RAD. PANEL	(1)
MRP-7	WOMEN'S RESTROOM – 206	1.0	.40	120	100	70	48	24	6 PASS	STERLING MOD. RAD. PANEL	(1)
MRP-8	WOMEN'S RESTROOM – 206	1.0	.40	120	100	70	48	24	6 PASS	STERLING MOD. RAD. PANEL	(1)
MRP-9	MEN'S RESTROOM – 311	1.0	.40	120	100	70	48	24	6 PASS	STERLING MOD. RAD. PANEL	(1)
MRP-10	MEN'S RESTROOM – 311	1.0	.40	120	100	70	48	24	6 PASS	STERLING MOD. RAD. PANEL	(1)
MRP-11	WOMEN'S RESTROOM – 310	1.0	.40	120	100	70	48	24	6 PASS	STERLING MOD. RAD. PANEL	(1)
MRP-12	WOMEN'S RESTROOM – 310	1.0	.40	120	100	70	48	24	6 PASS	STERLING MOD. RAD. PANEL	(1)

NOTES: (1) ALUMINUM RECESSED MODULAR PANEL.

UNIT HEATER SCHEDULE

TAG	LOCATION	TYPE	CFM	HP	MBH	GPM	ΔP	EAT/LAT°F	WATER ΔT	VOLT/ø	TYPICAL UNIT MFG & MODEL NO.	NOTES:
UH-1	MECH. RM 404	HORIZONTAL PROPELLER	1400	1/20	25.6	6.1	.24	50–100	40°	120/1	STERLING HS-84	(1)
UH-2	MECH. RM 404	HORIZONTAL PROPELLER	1400	1/20	25.6	6.1	.24	50–100	40°	120/1	STERLING HS-84	(1)
UH-3	MECH. RM 401	HORIZONTAL PROPELLER	1400	1/20	25.6	6.1	.24	50–100	40°	120/1	STERLING HS-84	(1)

NOTES: (1) ENTERING WATER TEMP @ 120°F.

BOILER SCHEDULE – HOT WATER

TAG	FUEL	BOILER HP	INPUT MBH	GROSS I.B.R. RATING MBH	NET I.B.R. RATING MBH	ELECTRICAL DATA: HP	VOLT/ø	FLUE SIZE	OPERATING WT. LBS.	TYPICAL UNIT MFG AND MODEL NO.	NOTES:
B-1	NAT. GAS	65	2160	2058	2058	2.0	460/3ø	10"ø	3500	VIESSMANN VSB-57	
B-2											

NOTES:

FIN TUBE SCHEDULE

TAG	BTU/FT.	GPM	TUBE SIZE	FIN STYLE	FINS/FT.	EWT	LWT	EAT	ENCLOSURE: H	D	MOUNT H	STYLE	TYPICAL UNIT MANUF. & MODEL NO.	NOTES:
FT-1	370	1.0	1-1/4 CU	3-1/4x 5-1/4	58	120	100	65	12"	6"	(4)	S-12	TRANE – 1 TIER 6' = ELEMENT	(1)(3)
FT-2	370	1.0	1-1/4 CU	3-1/4x 5-1/4	58	120	100	65	12"	6"	(4)	S-12	TRANE – 1 TIER 6' = ELEMENT	(1)(3)
FT-3	370	1.0	1-1/4 CU	3-1/4x 5-1/4	58	120	100	65	12"	6"	(4)	S-12	TRANE – 1 TIER 6' = ELEMENT	(1)(3)
FT-4	370	1.0	1-1/4 CU	3-1/4x 5-1/4	58	120	100	65	–	–	(5)	–	TRANE – 1 TIER 6' = ELEMENTS (BARE)	
FT-5	370	1.0	1-1/4 CU	3-1/4x 5-1/4	58	120	100	65	–	–	(5)	–	TRANE – 1 TIER 6' = ELEMENTS (BARE)	
FT-6	370	1.0	1-1/4 CU	3-1/4x 5-1/4	58	120	100	65	–	–	(5)	–	TRANE – 1 TIER 6' = ELEMENTS (BARE)	

NOTES: (1) ENCLOSURE COVER COLOR BY ARCHITECT. (2) MOUNT INVERTED WITH LOWER EDGE @ 7'-4" AFF. (3) WALL TO WALL ENCLOSURE.
(4) MOUNT INVERTED WITH LOWER EDGE @ 6'-8" AFF. (5) MOUNT 6' AFF WITH NON-ELECTRIC CONTROL VALVE.

EXPANSION TANK SCHEDULE

TAG	LOCATION	SERVED	ACCEPT GAL.	DIA. (IN.)	HEIGHT (IN.)	WEIGHT FULL (LBS.)	PRE-CHARGE PSIG	TYPICAL UNIT MFG & MODEL NO.	NOTES
ET-1	MECHANICAL ROOM 404	HEATING SYSTEM	61	24	72	1280	30	TACO CBX-425	

NOTES: (1) PRECHARGE TO 15 PSIG

AIR SEPARATOR SCHEDULE

TAG	LOCATION	SERVED	GPM	SIZE (IN)	DIA. (IN)	LNG. (IN)	STRAINER WPD FT. HD.	TYPICAL UNIT MFG AND MODEL NO.	NOTES:
AS-1	MECHANICAL ROOM	HEATING SYSTEM	240	5"	12.8	41.7	0.5	SPIROVENT DIRT SENIOR VDT-500-FL	(1)

NOTES: (1) NO STRAINER

CONVECTOR SCHEDULE

TAG	MBH	LENGTH	HEIGHT	DEPTH	GPM	TYPICAL UNIT MFG & MODEL NO.	NOTES
CONV-1	3.0	48"	32"	4"	1.0	STERLING FWG-A-432	(1)
CONV-2	3.0	48"	32"	4"	1.0	STERLING FWG-A-432	(1)

NOTES: (1) EWT = 120 DEG. F., EAT = 50 DEG F., WTD = 40 DEG F.

NOTE:

1. SEE SHEET M-001 FOR LEGEND AND ABBREVIATIONS.

REV.	DESCRIPTION	DATE
0	ISSUED FOR CONSTRUCTION	10-23-03

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CURRENT ISSUE STATUS:

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PROJECT: THE GULF OF MAINE RESEARCH INSTITUTE, PORTLAND, MAINE

SHEET TITLE: SCHEDULES

SCALE:	NOT TO SCALE	DATE:	10-23-03
PROJECT MANAGER:	DRL	GRAPHIC SCALE:	0" 1"
JOB CAP/DRAWN:	SDL/CAH		
A/E OF RECORD:	DBR	SHEET No.	M-602
SMRT CAD FILE:	M-602-03034		
PROJECT No.	03034		

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