HVAC UNIT SCHEDULE

	SYMBOL	MFG. NO.	CFM	S.P.	H.P.	COOLING TOTAL	COOLING SENS.	HEATING IN	HEATING OUT	O.A. CFM	VOLTAGE	MCA	FUSE	WIEGHT
TOP OF EAST UNIT 1	HVAC-1	YHC092E4	2920	1.0	2	91.4	68.0	150	120	400	460/3	19.9	25	1497
TOP OF EAST UNIT 2	HVAC-2	YHC092E4	2920	1.0	2	91.4	68.0	150	120	400	460/3	19.9	25	1497
MEZZ MTG RMS	HVAC-3	YHC036E4	1170	0.7	1	38.5	27.9	120	96	250	460/3	10.7	15	881
MEZZ MTG RMS	HVAC-4	YHC036E4	1170	0.7	1	38.5	27.9	120	96	250	460/3	10.7	15	881
BALLROOM	HVAC-5	YHC120E4	3900	1.0	3	118.5	92.3	250	195	750	460/3	24.9	30	1716
BALLROOM	HVAC-6	YHC120E4	3900	1.0	3	118.5	92.3	250	195	750	460/3	24.9	30	1716
BALLROOM	HVAC-7	YHC120E4	3900	1.0	3	118.5	92.3	250	195	750	460/3	24.9	30	1716
HAWTHORN RM	HVAC-8	YHC060E4	1950	0.7	1	63.2	46.3	130	103	250	460/3	16.8	25	1111
JR BALLROOM	HVAC-9	YHC092E4	2920	1.0	2	91.4	68.0	150	120	400	460/3	19.9	25	1497
LOBBY	HVAC-10	YHC120E4	3900	1.0	3	118.5	92.3	250	195	340	460/3	24.9	30	1716
DAY DINING	HVAC-11	YHC092E4	2920	1.0	2	91.4	68.0	150	120	400	460/3	19.9	25	1497
LONGFELLOW RM	HVAC-12	YPD181E4	5850	1.3	5	180.0	135.0	250	195	750	460/3	39.0	45	2540
SPA	HVAC-13	YPD151E4	4875	1.0	5	159.1	114.6	250	195	750	460/3	31.0	40	2330
LAUNDRY	HVAC-14	YHC150E4	4875	1.0	5	159.1	114.6	250	195	500	460/3	31.0	40	2330
KITCHEN	HVAC-15	YHC092E4	2920	1.0	2	91.4	68.0	150	120	300	460/3	19.9	25	1497
KITCHEN	HVAC-16	YHC092E4	2920	1.0	2	91.4	68.0	150	120	300	460/3	19.9	25	1497

UNITS BASED ON : TRANE , COMPLETE WITH ECONOMIZERS , BAROMETRIC RELIEFS , HINGED ACCESS, DISC. SWITCH, CONVENIENCE OUTLET, & ROOF CURBS.
OUTDOOR DESIGN - 95 DEG.F. DB / 72 DEG.F. WB AIR ENTERING COIL - 80 DEG.F. DB / 67 DEG.F. WB
UNITS SHALL BE NATURAL GAS FIRED.

LAUNDRY & KITCHEN UNITS, HVAC-15,16,&17 SUPPLIED WITH CONCENTRIC DROPS

DIFFUSERS-GRILLES-REGISTERS

SYMBOL	MFGR & MODEL#	SIZE	CFM	NC	PD	THROW	CONN.	REMARKS
A	ANEMOSTAT #EPL	6" DIA.	0-100	<20	0.03	2-6	6" DIA.	ED GRID
B	ANEMOSTAT #EPL	8" DIA.	101-200	<20	0.01	3-8	8" DIA.	ED GRID
C	ANEMOSTAT #EPL	10" DIA.	201-400	<29	0.05	5-14	10" DIA.	ED GRID
D	ANEMOSTAT #EPL	12" DIA.	401-640	<29	0.03	7-17	12" DIA.	ED GRID
E	ANEMOSTAT #53HD	12"x12"	0-350	<25	0.04	——	10" DIA.	——
F	ANEMOSTAT #6C5L	12"x24"	351-700	<25	0.04	——	14" DIA.	——
G	ANEMOSTAT #6C5L	24"x24"	701-1300	<30	0.03	——	16" DIA.	——
H	ANEMOSTAT #52VO	12"x4"	0-100	<20	0.02	9-15	6" DIA.	VD
J	ANEMOSTAT #52VO	14"x6"	101-200	<20	0.03	11-18	8" DIA.	VD
K	ANEMOSTAT #52VO	16"x8"	201-350	<20	0.02	13-20	10" DIA.	VD
L	ANEMOSTAT #52VO	24"x8"	351-450	<20	0.02	18-28	10" DIA.	VD
M	ANEMOSTAT 53HD	8"x8"	0-100	<20	0.02	——	6" DIA.	VD
N	ANEMOSTAT #DM41	6"x6"	0-100	<20	0.06	3-6	6"x6"	VD
P	ANEMOSTAT #DM41	9"x9"	101-200	<20	0.06	4-9	9"x9"	VD
Q	ANEMOSTAT #DM41	9"x12"	201-350	<20	0.06	5-11	9"x12"	VD
R	ANEMOSTAT #DM41	12"x12"	351-500	<20	0.06	7-14	12"x12"	VD
LD-1	ANEMOSTAT #LBD-75	48"x2 SLOT	100-200	<20	0.06	7-14	8" DIA.	VD
LD-2	ANEMOSTAT #LBD-75	48"x3 SLOT	200-300	<20	0.06	7-14	10" DIA.	VD
LD-3	ANEMOSTAT #LBD-75	48"x4 SLOT	300-400	<20	0.06	7-14	10" DIA.	VD
LD-4	ANEMOSTAT #LBD-150	48"x4 SLOT	600-800	<20	0.06	——	14" DIA.	VD
T	ANEMOSTAT #53HD	8"x8"	0-100	<20	0.04	——	——	VD

ALL REGISTERS, GRILLES & DIFFUSERS WHITE (ALUMINUM AT WOOD PANELS)
LINEARS TO BE SURFACE TYPE, EXCEPT FOR LAY-INS AT RMS 005, & 040 THRU 047. SEE ARCHITCTURAL PLANS FOR CEILING TYPES.

PUMP & CIRCULATOR SCHEDULE

SYMBOL	MFG. NO5.	GPM	FT. HEAD	H.P.	RPM	VOLT/PH	REMARK5
P-1&2	115013	1200	145	60	1760	460/3/60	WSHP LOOP
P-3&4	115010	1500	70	40	1750	460/3/60	TOWER LOOP
P-5,6&7	KV4007	275	15	1-1/2	1160	460/3/60	BOILER INJECTION
P-8&9	KV6009	825	30	15	1760	460/3/60	DHW HEAT EXCHANGER
P-10,11&12	1941	158	30	2	1750	460/3/60	DHW HEAT EXCHANGER
P-13	2400-455	30	25	1/3	3450	120/1/60	DHW RECIRC.-120F
P-14	00135F	10	15	1/6	3250	120/1/60	DHW RECIRC.-160F

1) NO5. BASED ON : TACO , SEE SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS.

2) P-1&2 SHALL BE FURNISHED WITH FREQUENCY DRIVE5.

3) P-10,11,12,13 &14 SHALL BE BRONZE CONSTRUCTION.

EXHAUST FAN SCHEDULE

SYMBOL	LOCATION	MFG. NO.	CFM	S.P.	HPW	RPM	TIP SPEED	REMARKS
EF-1	ROOF	DX12B	1150	0.63"	1/3	1130	4705	② ④ ⑤ ⑥ ⑦
EF-2	ROOF	DX12B	1150	0.63"	1/3	1130	4705	② ④ ⑤ ⑥ ⑦
EF-3	ROOF	DX16S	550	0.63"	1/3	1300	4670	② ④ ⑤ ⑥ ⑦
EF-4	ROOF	DX16S	550	0.63"	1/3	1300	4670	② ④ ⑤ ⑥ ⑦
EF-5	ROOF	DX12B	1350	0.63"	1/3	1130	4705	② ④ ⑤ ⑥ ⑦
EF-6	ROOF	DX16S	550	0.63"	1/3	1300	4670	② ④ ⑤ ⑥ ⑦
EF-7	ROOF	DX16S	550	0.63"	1/3	1300	4670	② ④ ⑤ ⑥ ⑦
EF-8	ROOF	DX12B	1100	0.63"	1/3	1130	4705	② ④ ⑤ ⑥ ⑦
EF-9	ROOF	DX16S	550	0.63"	1/3	1300	4670	② ④ ⑤ ⑥ ⑦
EF-10	ROOF	DX16S	550	0.63"	1/3	1300	4670	② ④ ⑤ ⑥ ⑦
EF-11	ROOF	DX12B	1350	0.63"	1/3	1130	4705	② ④ ⑤ ⑥ ⑦
EF-12	ROOF	DX16S	550	0.63"	1/3	1300	4670	② ④ ⑤ ⑥ ⑦
EF-13	ROOF	DX12B	1100	0.63"	1/3	1130	4705	② ④ ⑤ ⑥ ⑦
EF-14	ROOF	DX18B	4000	0.63"	1	950	4950	② ⑥ ⑦ ⑧
EF-15	ROOF	DX16S	600	0.25"	1/3	1300	4670	② ④ ⑤ ⑥ ⑦
EF-16	ROOF	DX12B	1475	0.75"	1/3	1130	4705	② ④ ⑤ ⑥ ⑦
EF-17	ROOF	DX16S	600	0.50"	1/3	1300	4670	② ④ ⑤ ⑥ ⑦
EF-18	CEILING	Z10S	350	0.25"	243	1050	--------	① ② ④ ⑤ ⑦
EF-19	CEILING	Z10S	325	0.25"	243	1050	--------	① ② ④ ⑤ ⑦
EF-20	CEILING	Z10S	325	0.25"	243	1050	--------	① ② ④ ⑤ ⑦
EF-21	CEILING	Z10S	325	0.25"	243	1050	--------	① ② ④ ⑤ ⑦
EF-22	CEILING	Z10S	325	0.25"	243	1050	--------	① ② ④ ⑤ ⑦
SF-1	ROOF	D30	12000	0.75"	5	829	6607	⑦ ⑧ ⑨
SF-2	ROOF	D30	12000	0.75"	5	829	6607	⑦ ⑧ ⑨
SF-3	ROOF	D30	12000	0.75"	5	829	6607	⑦ ⑧ ⑨
KEF-1&2, KSU-1&2 SUPPLIED BY OTHER5, PLEASE REFER TO KITCHEN EQUIPMENT REPRESENTATIVE DRAWINGS FOR INFORMATION.								

FANS BASED ON : FENN , SEE SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS , SAF-1 & 2 BASED ON KANALFLAKT.

1. THERMOSTAT CONTROLLED
2. BACKDRAFT DAMPER
3. WALL DISCHARGE CAP
4. 120 V - 1 PHASE- 60 HZ.
5. SPEED CONTROL
6. ROOF CURB (SEE PLANS FOR ROOF SLOPE) .
7. FACTORY MOUNTED DISCONNECT SWITCH.
8. 208V-3 PHASE-60 HZ
9. WEATHERPROOF

WATER SOURCE HEAT PUMP SCHEDULE

SYMBOL	UNIT TYPE	E.S.P."	COOLING TOT. MBH	COOLING SENS. MBH	HEATING TOT. MBH	HEATING GPM	HEATING WPD FT.	HEATING MFGR MODEL #	REMARKS	CONN.	FILTER5	MCA	FUSE
HP-111, 112	VERTICAL STACKED	0.15	8.8	6.9	12.0	2.6	7.7	GETE-009	①②③④ ⑥⑦⑧	3/4"	IN RETURN	4.0	15
HP-1302, 1303-1305, 1307-1315, 1317, 1318, 1329, 1330, HP-1202-1205, 1207-1214, 1217, 1218, 1220, 1221, 1223-1227, 1229, 1230, HP-1102-1105, 1107-1114, 1117, 1118, 1120, 1121, 1123-1127, 1129, 1130, HP-1002-1005, 1007-1014, 1017, 1018, 1020, 1021, 1023-1027, 1029, 1030, HP-902-905, 907-914, 917, 918, 920, 921, 923-927, 929, 930, HP-802-805, 807-814, 817, 818, 820, 821, 823-827, 829, 830, HP-702-705, 707-714, 717, 718, 720, 721, 723-727, 729, 730, HP-602-605, 607-614, 617, 618, 620, 621, 623-627, 629, 630, HP-502-505, 507-514, 517, 518, 520, 521, 523-527, 529, 530, HP-402-405, 407-414, 417, 418, 420, 421, 423-427, 429, 430, HP-302-305, 307-314, 317, 318, 320, 321, 323-326, 328, 329, HP-202, 203, 208, HP-104, 110		0.15	11.9	9.1	15.0	2.4	10.0	GETE-012	①②③④ ⑥⑦⑧	3/4"	IN RETURN	6.9	15
HP-NONE		0.15	15.0	11.2	17.0	3.0	10.8	GETE-015	①②③④ ⑥⑦⑧	3/4"	IN RETURN	8.6	15
HP-1301, 1306, 1316, 1319-1328,1331, HP-1201, 1206, 1215, 1216, 1219, 1222, 1228, HP-1101, 1106, 1115, 1116, 1119, 1122, 1128, HP-1001, 1006, 1015, 1016, 1019, 1022, 1028, HP-901, 906, 915, 916, 919, 922, 928, HP-801, 806, 815, 816, 819, 822, 828, HP-701, 706, 715, 716, 719, 722, 728, HP-601, 606, 615, 616, 619, 622, 628, HP-501, 506, 515, 516, 519, 522, 528, HP-401, 406, 415, 416, 419, 422, 428, HP-301, 306, 315, 316, 319, 323, 327, HP-201, 204, 205, 206, 207 , HP-105, 113, HP-007,008		0.40	18.0	14.0	23.4	3.6	7.9	GETE-018	①②③④ ⑥⑦⑧	1"	IN RETURN	10.2	15
HP-209, 210, HP-101, 102, 103	VERTICAL STACKED	0.40	23.6	17.9	30.3	4.8	8.6	GETE-024	①②③④ ⑥⑦⑧	1"	IN RETURN	13.1	20
HP-003, HP-106, 107		0.40	34.0	27.7	51.0	7.2	13.8	GETE-36	①②③④ ⑥⑦⑧	1"	IN RETURN	18.1	30
HP-108	CONSOLE	0.20	15.3	13.0	20.7	3.7	7.8	GECE-018	①②③④ ⑥⑦⑧	1"	IN RETURN	10.5	15
HP-006	VERTICAL	0.40	23.6	17.9	32.7	4.8	4.3	GEVE-024	①②③ ⑤⑥⑦⑧	3/4"	IN RETURN	5.5	15
HP-004		0.40	35.9	26.2	47.9	4.8	14.0	GEVE-036	①②③ ⑤⑥⑦⑧	1"	IN RETURN	9.0	15
HP-005		0.40	46.3	33.1	60.1	4.8	15.7	GEVE-048	①②③ ⑤⑥⑦⑧	1"	IN RETURN	9.3	15
HP-001, 002	VERTICAL	0.60	58.2	40.4	75.5	12.5	12.7	GEVE-060	①②③ ⑤⑥⑦⑧	1-1/4"	IN RETURN	12.5	20
HP-NONE	HORIZONTAL	0.40	18.0	11.6	23.4	3.6	8.4	GEHE-018	①②③④ ⑥⑦⑧	3/4"	IN RETURN	10.5	15
HP-109		0.40	23.6	17.9	32.7	4.8	4.3	GEHE-024	①②③ ⑤⑥⑦⑧	3/4"	IN RETURN	5.5	15
HP-009		0.40	35.9	26.2	47.9	4.8	14.0	GEHE-036	①②③ ⑤⑥⑦⑧	1"	IN RETURN	9.0	15
HP-NONE	HORIZONTAL	0.40	46.3	33.1	60.1	4.8	15.7	GEHE-048	①②③ ⑤⑥⑦⑧	1"	IN RETURN	9.3	15

UNITS BASED ON McQUAY ① 80/67 EAT ② 55 DEG.F. LAT ③ 90 DEG.F. EWT / 100 DEG.F. LWT SUMMER ④ 277V-1PH-60HZ ⑤ 480V-3PH-60HZ ⑥ 70 DEG.F. EWT / 65 DEG.F. EAT HEATING
⑦ DISCHARGE CONFIGURATION SHOWN ON DRAWINGS ⑧ FARR 1" THICK FILTERS.

UNITS COMPLETE WITH SUPPLY GRILLES, 24V WALL THERMOSTATS, MOTORIZED CONTROL VALVE, HOSE KITS, DISCONECT SWITCH, SOUND ATTENUATION

APPROXIMATE UNIT SIZES (VERTICAL STACKED UNITS):
009-012, 16-1/4x16-1/4x88 HIGH
015-018, 18x20x88 HIGH
024-036, 24x24x88 HIGH

VERTICLE HEAT PUMP5 IN K-SUITE-2, K-6, & K-8 STYLE ROOM5 REQUIRE MODIFICATION TO FIT IN LIMITED HEIGHT SPACE5. CEILING HEIGHT IS APPROX. 7'-0" IN THESE AREA5. (TYP. FOR APPROX. 24 UNIT5)

VERTICLE HEAT PUMP5 HP-113, IN IT ROOM, REQUIRE5 MODIFICATION TO FIT IN 6'-2" CEIING HEIGHT. REMOVE PLENUM, USE STUD ENCLOSURE AS DUCT.

MECHANICAL EQUIPMENT

1. ELECTRIC HEATERS

RP-1,2,3,4,15, Q-MARK, 750 WATT CEILING RADIANT PANELS, 24"x48", WHITE. 277/1/60
30 MINUTE ROTARY WALL MOUNTED TIMER (SPA)

RP-6,7,8, Q-MARK, 750 WATT CEILING RADIANT PANELS, 24"x48", WHITE. 277/1/60
WALL THERMOSTATS (VESTIBULE)

EUH-1&2, Q-MARK #CUG935, 5000 WATT CABINET UNIT HEATER WITH INTEGRAL THERMOSTAT.
277/1/60 (STAIR TOWER5)

EUH-3&7, Q-MARK #AWH-4157MG, 1500 WATT UNIT HEATER WITH INTEGRAL THERMOSTAT.
277/1/60 (VESTIBULE 105 & 2ND FL STAIR)

EUH-4&5, Q-MARK #MUH-05-41, 5000 WATT ELECTRIC UNIT HEATER WITH INTEGRAL THERMOSTAT.
480/3/60 (TOWER ROOM5)

EUH-6, Q-MARK #MUH-03-41, 3000 WATT ELECTRIC UNIT HEATER WITH INTEGRAL THERMOSTAT.
480/3/60 (TOWER ROOM)

EBB-1, Q-MARK, 1500 WATT ELECTRIC BASEBOARD HEATER5 WITH BUILT-IN THERMOSTAT5.
277/1/60 (TYP. FOR (8), TOP OF THE EAST & STAIR)

EBB-2, Q-MARK, 750 WATT ELECTRIC BASEBOARD HEATER5 WITH BUILT-IN THERMOSTAT5.
277/1/60 (TYP. FOR (3), 13TH FLOOR) (TYP. FOR (11), SERVICE ELEV LOBBY)

EH-1, Q-MARK, 1500 WATT FAN POWERED ELECTRIC HEATER IN CEILING WITH 30 MINUTE WALL TIMER.
277/1/60 (TYP. FOR (1), PRESIDENTIAL SUITE BATHROOM)

2. MAKE-UP AIR UNIT5

MUA-1,2,&3 TRANE #GRCA40GFMFO, GA5 FIRED ROOFTOP MAKE-UP AIR UNIT5, 3575 CFM, 1" ESP, 1145 RPM, 3 HP FAN, 350 MBH, 55 HEAT EXCHANGER, OA HOOD, MOD, FILTER, HINGED DOOR5, & CURB, 208/3/60, 1311 POUND5

MUA-4 TRANE #GRCA40GFMFO, GA5 FIRED ROOFTOP MAKE-UP AIR UNIT5, 4000 CFM, 1" ESP, 1145 RPM, 3 HP FAN, 400 MBH, 55 HEAT EXCHANGER, OA HOOD, MOD, FILTER, HINGED DOOR5, & CURB, 208/3/60, 1311 POUND5

NOTE;
MUA-1&4 HORIZONTAL DISCHARGE
MUA-2&3 DOWN DISCHARGE

3. BOILER5, B-1,2,&3

LOCHINVAR #FBN3000, NATURAL GA5 FIRED BOILER5, 3000 MBH INPUT, 2400 MBH OUTPUT, 4" WATER CONNECTION, 10" VENT & COMBUSTION AIR, 4125 POUND5.
120/1/60, x MCA, x FUSE

4. EXPANSION TANK5, ET-1&2

TACO #CBX-600

5. COOLING TOWER

EVAPCO #AT-112-212, 506 TON CAPACITY, 1500 GPM, 95F EWT, 85F LWT, 74F WB, 25 HP FAN, 460/3/60, 11'-11-3/4" Lx11'-10" Wx13'-7" HIGH, 13,750 POUND5. EVAP-PAK FILL, ELECTRIC HEATER5 (2) 6KW, LADDER, PREMIUM MOTOR.

4. DOMESTIC WATER HEAT EXCHANGER #HX-1

ALFA-LAVAL # AGQM-MFG, 316 S.S.PLATE5 , 951 MBH TOTAL , 152 LB5. , OVERALL SIZE 10"x13"x26" HIGH , 2" CONNECTION5. BOILER WATER : 825 GPM , 190 DEG.F E.W.T., 165 DEG.F L.W.T., 4.9 PSI PD, DOMESTIC WATER : 158 GPM , 105 DEG.F E.W.T., 160 DEG.F L.W.T., 0.3 PSI PD

5. DOMESTIC WATER STORAGE TANK5:

LOCHINVAR #RJ-504, 504 GALLON CAPACITY, 46" DIA. x 92" HIGH, 1623 POUND5

6. COOLING TOWER HEAT EXCHANGER #HX-2

ALFA-LAVAL #AQS-BFG , S.S. PLATE5 , CT SIDE 1500 GPM, 85F EWT, 94F LWT, 9.9 PSI PD, HP LOAD SIDE 1200 GPM, 98F EWT, 88F LWT, 6.6 PSI PD, OVERALL SIZE 25"x83x86" HIGH 3628 POUND5

7. COOLING TOWER SIDE STREAM FILTER

MODEL #SMF2-30, FILTER, 3 HP PUMP, STRAINER, CONTROL PANEL, AUTO BACKWASH, 98 GPM MAX., 480/3/60, 975 POUND5.

JOHNSON & JORDAN
MECHANICAL CONTRACTORS
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SCARBOROUGH, MAINE 04074
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REVISIONS:

JULY 9, 2012
ISSUED FOR PERMIT
RELEASED FOR CONSTRUCTION

DRAWINGS THIS SHEET

MECHANICAL SHEDULES & EQUIPMENT CALLOUTS

DRAWN: MFJ | CHECKED: MFJ
SCALE: 1/8"=1'-0"
DATE: 7-9-12
PROJECT# 10431

PROJECT:

WESTIN EASTLAND PARK
HOTEL RENOVATION
157 HIGH STREET, PORTLAND, MAINE

SHEET #

M-18
OF 19