# MECHANICAL EQUIPMENT SCHEDULE

(THE ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ELECTRICAL DEVICES AS INDICATED ON THIS SCHEDULE)

| EQUIPMENT SYMBOL | LOCATION | SERVICE | DESCRIPTION | HP/MCA/KW | PANEL | VOLTS V | PHASE | CIRCUIT BREAKER | FEEDER | MOTOR WIRING, CONTROL AND MONITORING EQUIPMENT | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | $ | VFD (BY H/AC) | | | | | | WP | REMARKS |
| AHU-149 | ROOF | SECTOR 1 | AIR HANDLING UNIT-149 RETURN FAN MOTOR #1 | 15HP | EQ4TN1# 1,3,5 | 480 | 3 | 30A-3P | 3B | | ✓ | | ✓ | | ✓ | | ✓ | 600V, 30A, 3P NEMA 3R |
| AHU-149 | ROOF | SECTOR 1 | AIR HANDLING UNIT-149 SUPPLY FAN MOTOR #1 | 20HP | EQ4TN1# 2,4,6 | 480 | 3 | 40A-3P | 4B | | ✓ | | ✓ | | ✓ | | ✓ | 600V, 30A, 3P NEMA 3R |
| AHU-149 | ROOF | SECTOR 1 | AIR HANDLING UNIT-149 RETURN FAN MOTOR #2 | 15HP | EQ4TN1# 7,9,11 | 480 | 3 | 30A-3P | 3B | | ✓ | | ✓ | | ✓ | | ✓ | 600V, 30A, 3P NEMA 3R |
| AHU-149 | ROOF | SECTOR 1 | AIR HANDLING UNIT-149 SUPPLY FAN MOTOR #2 | 20HP | EQ4TN1# 8,10,12 | 480 | 3 | 40A-3P | 4B | | ✓ | | ✓ | | ✓ | | ✓ | 600V, 30A, 3P NEMA 3R |
| AHU-149 | ROOF | SECTOR 1 | AIR HANDLING UNIT-149 RETURN FAN MOTOR #3 | 15HP | EQ4TN1# 13,15,17 | 480 | 3 | 30A-3P | 3B | | ✓ | | ✓ | | ✓ | | ✓ | 600V, 30A, 3P NEMA 3R |
| AHU-149 | ROOF | SECTOR 1 | AIR HANDLING UNIT-149 SUPPLY FAN MOTOR #3 | 20HP | EQ4TN1# 14,16,18 | 480 | 3 | 40A-3P | 4B | | ✓ | | ✓ | | ✓ | | ✓ | 600V, 30A, 3P NEMA 3R |
| AHU-149 | ROOF | SECTOR 1 | AIR HANDLING UNIT-149 RETURN FAN MOTOR #4 | 15HP | EQ4TN1# 19,21,23 | 480 | 3 | 30A-3P | 3B | | ✓ | | ✓ | | ✓ | | ✓ | 600V, 30A, 3P NEMA 3R |
| AHU-149 | ROOF | SECTOR 1 | AIR HANDLING UNIT-149 SUPPLY FAN MOTOR #4 | 20HP | EQ4TN1# 20,22,24 | 480 | 3 | 40A-3P | 4B | | ✓ | | ✓ | | ✓ | | ✓ | 600V, 30A, 3P NEMA 3R |
| AHU-149 | ROOF | SECTOR 1 | AIR HANDLING UNIT-149 UV LIGHTS | 10 MCA | EQ27S1#7 | 120 | 1 | 20A-1P | 2A | | | | | | | ✓ | ✓ | |
| AHU-149 | ROOF | SECTOR 1 | AIR HANDLING UNIT-149 LIGHTS/OUTLET | 10 MCA | EQ27S1#6 | 120 | 1 | 20A-1P | 2A | | | | | | | ✓ | ✓ | |
| AHU-150 | ROOF | SECTOR 1 | AIR HANDLING UNIT-150 RETURN FAN MOTOR #1 | 10HP | EQ4TS1# 1,3,5 | 480 | 3 | 30A-3P | 3B | | ✓ | | ✓ | | ✓ | | ✓ | 600V, 30A, 3P NEMA 3R |
| AHU-150 | ROOF | SECTOR 2 | AIR HANDLING UNIT-150 SUPPLY FAN MOTOR #1 | 20HP | EQ4TS1# 2,4,6 | 480 | 3 | 40A-3P | 4B | | ✓ | | ✓ | | ✓ | | ✓ | 600V, 30A, 3P NEMA 3R |
| AHU-150 | ROOF | SECTOR 2 | AIR HANDLING UNIT-150 RETURN FAN MOTOR #2 | 10HP | EQ4TS1# 7,9,11 | 480 | 3 | 30A-3P | 3B | | ✓ | | ✓ | | ✓ | | ✓ | 600V, 30A, 3P NEMA 3R |
| AHU-150 | ROOF | SECTOR 2 | AIR HANDLING UNIT-150 SUPPLY FAN MOTOR #2 | 20HP | EQ4TS1# 8,10,12 | 480 | 3 | 40A-3P | 4B | | ✓ | | ✓ | | ✓ | | ✓ | 600V, 30A, 3P NEMA 3R |
| AHU-150 | ROOF | SECTOR 2 | AIR HANDLING UNIT-150 RETURN FAN MOTOR #3 | 10HP | EQ4TS1# 13,15,17 | 480 | 3 | 30A-3P | 3B | | ✓ | | ✓ | | ✓ | | ✓ | 600V, 30A, 3P NEMA 3R |
| AHU-150 | ROOF | SECTOR 2 | AIR HANDLING UNIT-150 SUPPLY FAN MOTOR #3 | 20HP | EQ4TS1# 14,16,18 | 480 | 3 | 40A-3P | 4B | | ✓ | | ✓ | | ✓ | | ✓ | 600V, 30A, 3P NEMA 3R |
| AHU-150 | ROOF | SECTOR 2 | AIR HANDLING UNIT-150 RETURN FAN MOTOR #4 | 10HP | EQ4TS1# 19,21,23 | 480 | 3 | 30A-3P | 3B | | ✓ | | ✓ | | ✓ | | ✓ | 600V, 30A, 3P NEMA 3R |
| AHU-150 | ROOF | SECTOR 2 | AIR HANDLING UNIT-150 SUPPLY FAN MOTOR #4 | 20HP | EQ4TS1# 20,22,24 | 480 | 3 | 40A-3P | 4B | | ✓ | | ✓ | | ✓ | | ✓ | 600V, 30A, 3P NEMA 3R |
| AHU-150 | ROOF | SECTOR 2 | AIR HANDLING UNIT-150 UV LIGHTS | 10 MCA | EQ27S1#5 | 120 | 1 | 20A-1P | 2A | | | | | | | ✓ | ✓ | |
| AHU-150 | ROOF | SECTOR 2 | AIR HANDLING UNIT-150 LIGHTS/OUTLET | 10 MCA | EQ27S1#4 | 120 | 1 | 20A-1P | 2A | | | | | | | ✓ | ✓ | |
| SF-1 | ROOF | STAIR PRESS SUP. | STAIR PRESSURIZATION FAN | 7.5 HP | LS47N1# 1,3,5 | 480 | 3 | 20A-3P | #12-3 MI CABLE | | ✓ | | ✓ | | ✓ | | | 600V, 30A, 3P NEMA 3R |
| SF-2 | ROOF | STAIR PRESS SUP. | STAIR PRESSURIZATION FAN | 5.0 HP | LS47S1# 4,6,8 | 480 | 3 | 20A-3P | #12-3 MI CABLE | | ✓ | | ✓ | | ✓ | | | 600V, 30A, 3P NEMA 3R |
| EXH-172 | ROOF | ISO. ROOM EXH. | EXHAUST FAN | 10 HP | EQ47N1# 25,27,29 | 480 | 3 | 30A-3P | 3B | | ✓ | | ✓ | | ✓ | | | 600V, 30A, 3P NEMA 3R |
| EXH-176 | ROOF | ISO. ROOM EXH. | EXHAUST FAN | 1.5 HP | EQ47S1# 26,28,30 | 480 | 3 | 20A-3P | 2B | | ✓ | | ✓ | | ✓ | | | 600V, 30A, 3P NEMA 3R |
| EXH-200 | ROOF | TOILET EXH. | EXHAUST FAN | 2.0 HP | N27S1#89,91 | 208 | 1 | 30A-2P | 3A | | | | ✓ | | ✓ | | ✓ | 240V, 30A, 3P NEMA 3R |
| EXH-201 | ROOF | TOILET EXH. | EXHAUST FAN | 2.0 HP | N27S1#93,95 | 208 | 1 | 30A-2P | 3A | | | | ✓ | | ✓ | | ✓ | 240V, 30A, 3P NEMA 3R |
| EXH-202 | ROOF | TOILET EXH. | EXHAUST FAN | 2.0 HP | N27S1#97,99 | 208 | 1 | 30A-2P | 3A | | | | ✓ | | ✓ | | ✓ | 240V, 30A, 3P NEMA 3R |
| COND-36 | 5TH FLOOR MECH RM. | AHU-149 & AHU-150 | ELECTRIC DUPLEX CONDENSATE PUMP | 2.0 HP | EQ45N# 1,3,5 | 480 | 3 | 20A-3P | 2B | | | | ✓ | | ✓ | | | 600V, 30A, 3P NEMA 1 |
| COND-37 | 5TH FLOOR MECH RM. | HELI PAD SNOW MELTING SYSTEM | ELECTRIC DUPLEX CONDENSATE PUMP | 2.0 HP | EQ45N# 2,4,6 | 480 | 3 | 20A-3P | 2B | | | | ✓ | | ✓ | | | 600V, 30A, 3P NEMA 1 |
| P-187 | 5TH FLOOR MECH RM. | HELI PAD | PUMP-187 | 5.0 HP | EQ45N# 7,9,11 | 480 | 3 | 20A-3P | 2B | | | | ✓ | | ✓ | | | 600V, 30A, 3P NEMA 1 |
| P-188 | 5TH FLOOR MECH RM. | HELI PAD | PUMP-188 | 5.0 HP | EQ45N# 8,10,12 | 480 | 3 | 20A-3P | 2B | | | | ✓ | | ✓ | | | 600V, 30A, 3P NEMA 1 |
| P-194 | 5TH FLOOR MECH RM. | HEATING HW | PUMP-194 | 3.0 HP | EQ45N# 13,15,17 | 480 | 3 | 20A-3P | 2B | | | | ✓ | | ✓ | | | 600V, 30A, 3P NEMA 1 |
| P-195 | 5TH FLOOR MECH RM. | HEATING HW | PUMP-195 | 3.0 HP | EQ45N# 14,16,18 | 480 | 3 | 20A-3P | 2B | | | | ✓ | | ✓ | | | 600V, 30A, 3P NEMA 1 |
| AC-1 | ROOF ELEV. LOBBY | ROOF ELEV. LOBBY | SPLIT AIR COOLED CONDITIONING UNIT | .056 WATTS | FED FROM CU-1 | 208 | 1 | - | 3A | | | | ✓ | | ✓ | | | 240V, 30A, 3P NEMA 1 |
| CU-1 | ROOF ELEV. LOBBY | ROOF ELEV. LOBBY | SPLIT AIR COOLED CONDITIONING UNIT | 18 MCA | N27S1# 101,103 | 208 | 1 | 30A-2P | 3A | | | | | ✓ | ✓ | | ✓ | 240V, 30A, 3P NEMA 3R FUSED |
| CUH-1 | ROOF ELEV. LOBBY | ENTRY HEAT | CABINET UNIT HEATER #1 | .079 WATTS | N27S1#87 | 120 | 1 | 20A-1P | 2A | ✓ | | | | | ✓ | | | 120V THERMAL SWITCH |
| CUH-2 | PENTHOUSE ELEV. LOBBY | ENTRY HEAT | CABINET UNIT HEATER #2 | .079 WATTS | N27S1#90 | 120 | 1 | 20A-1P | 2A | ✓ | | | | | ✓ | | | 120V THERMAL SWITCH |
| UH-1 | AHU-149 VESTIBULE | AHU-149 VESTIBULE | UNIT HEATER #1 | 5 KW | EQ47N1# 26,28,30 | 480 | 3 | 20A-3P | 2B | | | | ✓ | | ✓ | | | 600V, 30A, 3P NEMA 3R |
| UH-2 | AHU-150 VESTIBULE | AHU-150 VESTIBULE | UNIT HEATER #1 | 5 KW | EQ47S1# 25,27,29 | 480 | 3 | 20A-3P | 2B | | | | ✓ | | ✓ | | | 600V, 30A, 3P NEMA 3R |
| GLY-1 | 5TH FLOOR MECH RM. | - | GLYCOL PUMP #1 | 1/3 HP | EQ25S1#28 (EXISTING PANEL) | 120 | 1 | 20A-1P | 2A | ✓ | | | | | ✓ | | | 120V THERMAL SWITCH |
| FPB-1 | 6TH FLOOR SECTOR 1 | 6TH FLOOR SECTOR 1 | FAN POWERED BOX #1 | 2.4 FLA | CR46N1#2 | 277 | 1 | 20A-1P | 2A | ✓ | | | | | ✓ | | | 277V THERMAL SWITCH |
| FPB-2 | 6TH FLOOR SECTOR 2 | 6TH FLOOR SECTOR 2 | FAN POWERED BOX #2 | 2.4 FLA | CR46S1#2 | 277 | 1 | 20A-1P | 2A | ✓ | | | | | ✓ | | | 277V THERMAL SWITCH |
| FPB-3 | 7TH FLOOR SECTOR 1 | 7TH FLOOR SECTOR 1 | FAN POWERED BOX #3 | 2.4 FLA | CR47N1#2 | 277 | 1 | 20A-1P | 2A | ✓ | | | | | ✓ | | | 277V THERMAL SWITCH |
| FPB-4 | 7TH FLOOR SECTOR 2 | 7TH FLOOR SECTOR 2 | FAN POWERED BOX #4 | 2.4 FLA | CR47S1#2 | 277 | 1 | 20A-1P | 2A | ✓ | | | | | ✓ | | | 277V THERMAL SWITCH |
| MVP-05-01 | 5TH FLOOR MECH RM. | - | MEDICAL VACUUM PUMP "BEACON MEDEAS" NO. VHS07Q-200V-QV | (4)7.5 HP | EQ45N# 19,21,23 | 480 | 3 | 60A-3P | 6B | | | | ✓ | | ✓ | | | 600V, 60A, 3P NEMA 1 |
| CIRC-05-1 | 5TH FLOOR MECH RM. | - | HOT WATER RECIRCULATION PUMP | 1/2 HP | (EXISTING PANEL) EQ25S1# 32,34 | 208 | 1 | 20A-2P | 2A | | | | ✓ | | ✓ | | | 240V, 30A, 3P NEMA 1 |
| CIRC-05-2 | 5TH FLOOR MECH RM. | - | HOT WATER RECIRCULATION PUMP | 1/2 HP | (EXISTING PANEL) EQ25S1# 36,40 | 208 | 1 | 20A-2P | 2A | | | | ✓ | | ✓ | | | 240V, 30A, 3P NEMA 1 |
| RTU-1 (RE) | PENTHOUSE ROOF | - | ROOF TOP UNIT #1 | - | (EXISTING PANEL) EQ25S1 | 208 | 1 | 30A-3P (EXISTING) | 5A | | | | | ✓ | ✓ | | | 240V, 60A, 3P NEMA 3R FUSED DISCONNECT |
| RTU-2 (RE) | PENTHOUSE ROOF | - | ROOF TOP UNIT #2 | - | (EXISTING PANEL) EQ25S1 | 208 | 1 | 35A-3P (EXISTING) | 5A | | | | | ✓ | ✓ | | | 240V, 60A, 3P NEMA 3R FUSED DISCONNECT |
| AHU-142 | ROOF | ELEVATOR CONTROL ROOM | AIR HANDLING UNIT | 21.6 MCA | (EXISTING PANEL) DPEQ453 | 480 | 3 | 25A-3P (NEW) | 3B | | | | | ✓ | ✓ | | | 600V, 60A, 3P NEMA 3R FUSED DISCONNECT REMOVE EXISTING 60A-3P CIRCUIT BREAKER CURRENTLY FEEDING EXISTING RTU-3 AND PROVIDE NEW 25A-3P CIRCUIT BREAKER FOR NEW AHU-142. NEW CIRCUIT BREAKER TO MATCH EXISTING IN STYLE AND AIC RATING |


PERKINS + WILL
225 Franklin Street, Suite 1100
Boston, MA 02110
t 617.478.0300
f 617.478.0321
www.perkinswill.com


**CLIENT**

Maine Medical Center
MaineHealth

22 Bramhall Street
Portland, ME 04102

**CONSULTANTS**

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**Sebago Technics**
75 John Roberts Road , Suite 1A, South Portland, ME 04106

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT
**Simpson Gumpertz & Heger Inc.**
41 Seyon Street, Building 1, Suite 500, Waltham, MA 02453

MEPFP ENGINEER/ CODE
**AKF Group LLC**
99 Bedford Street, 2nd Floor, Boston MA 02111

CONSTRUCTION MANAGER
**Turner Construction**
2 Seaport Lane, Suite 200, Boston, MA 02210

ELEVATOR CONSULTANT
**VDA (Van Deusen & Associates)**
101 Summer Street, 4th Floor, Boston MA 02110

COST ESTIMATOR
**D. G. Jones International**
3 Baldwin Green Common,Suite 202, Woburn, MA 01801

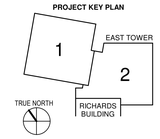
**PROJECT TITLE**

**East Tower 6 & 7 Addition**
22 Bramhall Street
Portland, ME 04102

STATE OF MAINE
MARK F. RATTENBURY
No. 9122
ELECTRICAL
LICENSED
PROFESSIONAL ENGINEER

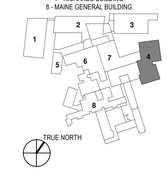
**KEY PLANS**

**PROJECT KEY PLAN**




**OVERALL KEY PLAN**

1 - GILMAN GARAGE
2 - CONGRESS STREET
3 - VISITOR GARAGE
4 - EAST TOWER
5 - CENTRAL UTILITY PLANT
6 - BEAN BUILDING
7 - RICHARDS BUILDING
8 - MAINE GENERAL BUILDING




**CONSTRUCTION DOCUMENTS**
JANUARY 26, 2018

| NO | ISSUE | DATE |
|---|---|---|
| 1 | ADDENDUM NO. 1 | 03/22/18 |

| | |
|---|---|
| **Job Number** | B150312-000 |
| **Drawn** | MAS |
| **Checked** | MFR |
| **Approved** | MFR |

**TITLE**

**ELECTRICAL SCHEDULES**

**SHEET NUMBER**

**E00-12**

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