

GENERAL NOTES

1. NOT ALL SYMBOLS INDICATED IN THE LEGEND APPEAR ON THE DRAWINGS. COORDINATE WORK ACCORDINGLY. COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.
2. ALL RECEPTACLES SHALL BE INSTALLED 18" AFF TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
3. PROVIDE PANELBOARDS AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS, CUTLER HAMMER OR APPROVED EQUAL.
4. ALL WIRING SHALL BE COPPER UNLESS DESIGNATED AS "AL." UNLESS OTHERWISE NOTED. ALL WIRING SHALL BE #12 AWG AND #12 EQUIPMENT GROUNDING CONDUCTOR. HOMERUNS FED FROM A 20A-1P, 120V CIRCUIT IN EXCESS OF 70' SHALL BE #10 AWG.
5. CONNECT BATTERY BACKED EMERGENCY AND EXIT LIGHTING TO NEAREST LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. CONNECT REMOTE HEADS WITH #10 AWG. COPPER CONDUCTORS. AC EXIT FIXTURES SHALL BE CONNECTED TO NEAREST EMERGENCY CIRCUIT OR AS INDICATED.
6. TEST ALL EMERGENCY LIGHTING UNITS FOR PROPER OPERATION OF LAMPS AND BATTERIES.
7. SEE MECHANICAL PLAN FOR HVAC UNITS, PUMPS AND FANS CONTROLLED BY THERMOSTATS (PROVIDED BY ATC CONTRACTOR).
8. FUSES AND OVERLOAD UNITS FOR MOTORS SHALL BE SIZED BASED ON ACTUAL MOTOR NAMEPLATE DATA AND IN ACCORDANCE WITH NEC. CIRCUIT BREAKERS FOR MOTORS ARE SUPPLIED AT MAX VALUE PER NEC (2.5 x FLA). SIZE IN THE FIELD IN ACCORDANCE WITH MFG. RECOMMENDATION.
9. ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.
10. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE SEPARATION.
11. ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.
12. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70 ARTICLE 250.
13. PROVIDE TWO BALLASTS FOR EACH FIXTURE INDICATED AS REQUIRING DUAL LEVEL SWITCHING. ONE BALLAST TO CONTROL OUTER LAMPS AND THE SECOND BALLAST TO CONTROL INNER LAMPS(S).
14. COORDINATE INSTALLATION OF VOICE/DATA OUTLETS WITH OWNER, MIS OR COMMUNICATIONS CONTRACTOR.
15. LOCATE DISCONNECTS AT EQUIPMENT AS REQUIRED BY MANUFACTURER. LOCATIONS ON DRAWINGS ARE APPROXIMATE.
16. OPERATE ALL FLUORESCENT AND METAL HALIDE LAMPS FROM INITIAL INSTALLATION FOR 100 HOURS AT FULL OUTPUT (NO DIMMING) TO SEASON LAMPS AND STABILIZE LAMP COLOR.
17. PROVIDE RISER OR PLENUM RATED CABLES ABOVE SUSPENDED CEILINGS.
18. THE CONTRACTOR SHALL SET ALL ELECTRONIC BREAKERS TO SPECIFIED TRIP SETTINGS BEFORE ENERGIZING EQUIPMENT.
19. PROVIDE EXPANSION FITTINGS FOR ALL UNDERGROUND RACEWAYS ENTERING ENCLOSURES ATTACHED TO FIXED STRUCTURES.
20. OUTDOOR RECEPTACLE COVERS SHALL COMPLY WITH NFPA 70 - ARTICLE 406.9.
21. ALL CONDUCTOR INSULATION FOR BUILDING WIRE SHALL BE THWN/THHN UNLESS NOTED OTHERWISE.
22. PROVIDE LABEL ON SERVICE EQUIPMENT INDICATING AVAILABLE SHORT CIRCUIT CURRENT ADD TO MASTER AND DATE OBTAIN VALUES FROM ENGINEER.
23. PROVIDE ARC FAULT LABELS PER NFPA 70-ARTICLE 110.24
24. BUILDING REQUIRES TWO SERVICE ENTRANCES, PROVIDE SIGNS PER NFPA 70-230.
25. PROVIDE LABELING AT SERVICE EQUIPMENT INDICATING THE LOCATION OF EMERGENCY/STANDBY GENERATORS.

ELEVATOR NOTES

1. CONNECT ALL REQUIRED SMOKE DETECTORS FOR ELEVATOR RECALL. VERIFY REQUIREMENTS WITH ELEVATOR VENDOR AND LOCAL FIRE DEPARTMENT FOR ELEVATOR SMOKE DETECTORS AND INSTALL IN ACCORDANCE WITH NFPA 72.
2. PROVIDE ELEVATOR POWER SHUTDOWN VIA HEAT DETECTORS IN ELEVATOR SHAFT, PIT, AND MACHINE ROOM. HEAT DETECTORS ADJACENT TO SPRINKLER HEADS SHALL ALARM BEFORE SPRINKLER HEAD ACTIVATION BASED ON RATE OF TEMPERATURE RISE FOR THE SPRINKLER HEAD. HEAT DETECTORS SHALL BE INSTALLED WITHIN TWO FEET OF THE SPRINKLER HEAD. PROVIDE A CONNECTION TO A SHUNT-TRIP CIRCUIT BREAKER FOR ELEVATOR POWER SHUTDOWN. THE FIRE ALARM SYSTEM SHALL MONITOR SHUNT TRIP CONTROL POWER. COORDINATE WORK WITH THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
3. PROVIDE A CONNECTION FROM THE ELEVATOR TAMPER SWITCH TO THE FIRE ALARM CONTROL PANEL (FACP).
4. COMPLY WITH REQUIREMENTS ASME A17.1 AND NFPA 72.
5. AUTOMATIC TRANSFER SWITCHES (ATS) MONITORING: PROVIDE 2*14WG-1*14GND IN 1/2" C. FROM ELEVATOR CONTROL PANEL TO ATS DRY CONTACTS.
6. CONFIRM ELEVATOR HORSEPOWER WITH ELEVATOR MANUFACTURER PRIOR TO INSTALLATION. DESIGN BASED ON 150 HP.

GENERAL NOTES:

1. SWITCHES, OUTLETS, TEL JACKS AND TV JACKS TO BE STAGGERED IN COMMON WALLS BETWEEN UNITS TYPICAL. PROVIDE PUTTY PADS IN INSTANCES WHERE DEVICES CANNOT BE PROPERLY STAGGERED.
2. CONTRACTOR SHALL ROUGH IN BOXES IN ONE OF EACH UNIT TYPE FOR REVIEW IN THE FIELD BY THE OWNER.
3. MINIMUM WIRE SIZE IS #12 AWG - #14 AWG WIRE IS NOT PERMITTED.
4. PROVIDE AIR-VAPOR BARRIER ELECTRICAL BOXES AT EXTERIOR WALLS. LESSCO OR EQUIVALENT.
5. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN TO COORDINATE THE LOCATION OF LIGHTING FIXTURES.
6. ALL PRODUCTS OF COMBUSTION DETECTORS (SMOKE DETECTORS) SHALL PROVIDE BOTH AUDIO AND VISUAL ALARMS.
7. ALL WIRING PENETRATING INTO BUILDING THERMAL ENVELOPE COMPONENTS SHALL BE PROPERLY "AIR-SEALED".
8. ELECTRICAL PANELS SHALL BE MOUNTED WITH THE TOP BREAKER NOT HIGHER THEN 48" AFF FOR ADA UNITS, ALL NON ADA UNITS 72".
9. UNIT THERMOSTATS SHALL BE MOUNTED NOT HIGHER THEN 48" AFF FOR ADA UNITS, ALL NON ADA UNITS 72".

ABBREVIATIONS

A	AMP	LP	LIGHTING PANELBOARD
AC	ALTERNATING CURRENT, ABOVE COUNTER	LTC	LIGHTING
ADA	AMERICANS WITH DISABILITIES ACT	LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT CIRCUIT BREAKER TRIP FUNCTIONS AS INDICATED
AF	AMP FRAME	MCC	MOTOR CONTROL CENTER
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MCCB	MOLDED CASE CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MCP	MAIN DISTRIBUTION PANEL
AIC	AMPERES INTERRUPTING CAPACITY	MH	MANHOLE
AL	ALUMINUM	MLO	MAIN LUGS ONLY
AT	AMP TRIP	MTS	MANUAL TRANSFER SWITCH
ATC	AUTOMATIC TEMPERATURE CONTROL	NC	NURSE CALL
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAUGE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
BLDG	BUILDING	NL	NIGHT LIGHT
C	CONDUIT	NO	NORMALLY OPEN
CB	CIRCUIT BREAKER	NO.	NUMBER
CI	CAST IRON	OL	OVERLOAD
CKT	CIRCUIT	P	POLE
CL	CENTERLINE	PA	PUBLIC ADDRESS
CMP	CENTRAL MAINE POWER (ELECTRIC UTILITY)	PB	PUSH BUTTON
CMU	CONCRETE MASONRY UNIT	PF	POWER FACTOR
CT	CURRENT TRANSFORMER	PH	PHASE
CONC	CONCRETE	PNL	PANEL
CS	CARBON STEEL	TP1-2	TELE-POWER POLE - POLE AND CIRCUIT NUMBER AS INDICATED
CU	COPPER	PSNH	PUBLIC SERVICE OF NEW HAMPSHIRE (ELECTRIC UTILITY)
CUH	CABINET UNIT HEATER	PT	POTENTIAL TRANSFORMER
DL	DAMP LOCATION	PVC	POLYVINYL CHLORIDE
DL	DAMP LOCATION	RL	ELECTRICAL EQUIPMENT TO BE RELOCATED
EC	ELECTRICAL CONTRACTOR	RM	ELECTRICAL EQUIPMENT TO REMAIN
EF	EXHAUST FAN	RSC	RIGID STEEL CONDUIT
ER	EXISTING REMAINS IN PLACE	RTU	ROOF TOP UNIT
ERL	EXISTING RELOCATE	RV	ELECTRICAL EQUIPMENT TO REMOVE
ERM	EXISTING REMOVE	RVNR	REDUCED VOLTAGE, NON-REVERSING SUPPLY FAN
EUH	ELECTRIC UNIT HEATER	SF	SUPPLY FAN
EWC	ELECTRICAL WATER COOLER	SLD	SINGLE LINE DIAGRAM
FACP	FIRE ALARM CONTROL PANEL	SM	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE, MOUNTED AT UNIT
FAPS	FIRE ALARM PULL STATION	SS	SOLID STATE
FRP	FIBER REINFORCED PLASTIC	SWBD-1	SWITCHBOARD NUMBER AS DESIGNATED
FVNR	FULL VOLTAGE, NON-REVERSING	TC	TIME CLOCK
FWU	FURNISHED WITH UNIT	TS	TRANSFER SWITCH
DC	DIRECT CURRENT	T&B	TOP AND BOTTOM
GFI	GROUND FAULT INTERRUPTER	TYP	TYPICAL
GND	GROUND	UG	UNDERGROUND
HID	HIGH INTENSITY DISCHARGE	V	VOLT
HDA	HAND-OFF-AUTOMATIC	VA	VOLT-AMPERE
HP	HORSEPOWER	VFD	VARIABLE FREQUENCY DRIVE
HPS	HIGH PRESSURE SODIUM	W	WATT
HZ	HERTZ	W/	WITH
ICB	INSULATED CASE CIRCUIT BREAKER	WP	WEATHERPROOF
JB	JUNCTION BOX	XFMR	TRANSFORMER
KAIC	THOUSAND AMP INTERRUPTING CAPACITY	XP	EXPLOSION PROOF
KCMIL	THOUSAND CIRCULAR MIL	3PH	THREE PHASE
KV	THOUSAND VOLTS	4W	FOUR WIRE
KVA	THOUSAND VOLT-AMPS	3W	THREE WIRE
KW	THOUSAND WATTS (KILOWATT)		
LC	LIGHTING CONTACTORS		
LCP	LATERAL CONTROL PIT		
LED	LIGHT EMITTING DIODE		

TYPE	DESCRIPTION	LAMPS QUANTITY & TYPE	REMARKS
A	LIGHTOLIER No. 110ILED09N272-1113CD 277V	LED'S, 3500K	6" RECESSED DOWNLIGHT
B	FORECAST LIGHTING No. F615636NV SUPPLY WITH 277V BALLAST	(3) 60W INCANDESCENT	GRID MOUNTED IN CORRIDORS
C	LIGHTOLIER No. 100ILED09271-1013CD	LED'S, 3500K	5" RECESSED AT NURSES STATIONS
D	FORECAST LIGHTING No. 190199836 SUPPLY WITH 277V BALLAST	(1) 21W FL, 3500K	WALL MOUNT AT RESIDENTS BED, VERIFY MOUNTING HEIGHT WITH ARCHITECT
E	FORECAST LIGHTING No. F606436 SUPPLY WITH 277V BALLAST	(3) 60W INCANDESCENT	SURFACE MOUNTED IN RESIDENTS ROOM
F	FORECAST LIGHTING No. F602536NV, SUPPLY WITH 277V BALLAST	(2) 60W INCANDESCENT, 3500K	SRUFACE MOUNTED IN RESIDENTS BATHROOMS
G	FORECAST LIGHTING No. 190196836, SUPPLY WITH 277V BALLAST	(1) 18W FL, 3500K	VANITY LIGHT ABOVE MIRROR, VERY MOUNTING HEIGHT WITH ARCHITECT
H	FORECAST LIGHTING No. F541036, SUPPLY WITH 277V BALLAST	(2) 60W INCANDESCENT 3500K	CORRICOR WALL SCONCE, VERIFY MOUNTING HEIGHT WITH ARCHITECT
J	FORECAST LIGHTING No. 190211836, SUPPLY WITH 277V BALLAST	(3) 75W INCANDESCENT, 3500K	CEILING MOUNTED IN COMMUNITY ROOMS
J	PHILLIPS LIGHTING No. 523-000028-61	LED'S, 3000K	UNDERCABINET LIGHTING, VERIFY LOCATIONS WITH ARCHITECT
K	EUREKA LIGHTING No. 3442C-60-277V-SC	(4) 10W HAL, BIPIN, G4 BASE	WALL MOUNTED PICTURE LIGHTING, VERIFY LOCATIONS AND MOUNTING HEIGHT WITH ARCHITECT
L	COLUMBIA LIGHTING No. 4PS22-424M-SFAA19-4EP277V	(4) 24W, 2', T5HO, 3500K	2' x 2' GRID MOUNTED
M	KENALL LIGHTING No. MR13FLPPMW42P1277	(1) 42W PLT, 3500K	WALL MOUNTED IN STARWAYS, VERIFY MOUNTING HEIGHT WITH ARCHITECT
N	SUPPLIED WITH SHOWER UNIT, EC TO WIRE	.....	....
O	PROGRESS LIGHTING No. P7372-305TRWB SUPPLY WITH 277V BALLAST	(2) 13W, 4-PIN QUAD (INCLUDED), G24q-1 BASE	SURFACE MOUNTED IN CLOSET
P	LIGHTOLIER No. 1000LED09R271-1090 SUPPLY WIHT 277V BALLAST	LED'S 3500K	RECESSED ABOVE SPA
Q	....	.....	....
R	PROGRESS LIGHTING No. P58832-30EB	(1) 18W QUAD, CFL, GX24q-2 BASE 3500K	ELEVATOR PIT LIGHT
S	SITE LIGHTING REFER TO SITE PLAN	.....	....
T	....	.....	....
U	....	.....	....
V	....	.....	....
W	HUBBELL No. TRP-50L8-5K-FT-BZ	(2) 47.5W LED, 3500K (INCLUDED)	WALL MOUNTED TO BUILDING EXTERIOR. VERIFY MOUNTING HEIGHT WITH ARCHITECT
X	....	.....	....
Y	....	.....	....

All Lighting fixtures shall be energy star rated or have High performance T8 ballast and lamps to meet Efficiency maine criteria.

SYMBOL LEGEND

- POWER PANEL, 120/208V, 3PHS, 4WIRE
- ELECTRIC MOTOR DRIVEN EQUIPMENT, HP SHOWN
- JUNCTION BOX - "H" DENOTES RANGE HOOD, "DS" DENOTES DISPOSAL, "DW" DENOTES DISHWASHER
- LIGHTING FIXTURES- CAPITAL LETTERS DENOTE TYPE AS PER LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTERS INDICATE SWITCH CONTROL. DIAGONAL LINE INDICATES NIGHT LIGHT - UNSWITCHED
- DISCONNECT SWITCH -250 VOLT- SIZE AND NUMBER OF POLES AS INDICATED ON DRAWING PROVIDED AND INSTALLED BY E.C. - UNLESS OTHERWISE NOTED. PROVIDE FUSES WHERE RECOMMENDED BY MANUFACTURER.
- COMBINATION MOTOR STARTER/ DISCONNECT SWITCH - WITH AUXILIARY CONTACTS AND HAND-OFF-AUTO SWITCH AND RED RUN LIGHT PROVIDED AND INSTALLED BY E.C. - UNLESS OTHERWISE NOTED.
- VARIABLE FREQUENCY DRIVE - PROVIDED BY M.C., INSTALLED AND WIRED BY E.C.
- RACEWAY & WIRING OR MC CABLE RUN CONCEALED IN WALLS/CEILINGS.
- RACEWAY & WIRING RUN EXPOSED
- RACEWAY & WIRING RUN CONCEALED UNDER FLOOR OR BURIED 30" BELOW FINISH GRADE
- HOME RUN TO PANEL- ARROWS INDICATE QUANTITY OF CIRCUITS- NUMERALS DENOTE CIRCUIT NUMBERS
- SINGLE POLE SWITCH, 120 VOLT, 20 AMP, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3-3-WAY, 4-4 WAY, P-PILOT LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD. PL - DENOTES PILOT LIGHT, SWITCHES SHALL BE PROVIDED W/ ENGRAVED NAMEPLATE IDENTIFYING USE
- BURNER SAFETY SWITCH - PROVIDE WITH RED PLATE - MOUNTED 72" AFF
- SELF CONTAINED EMERGENCY LIGHTING UNIT W/2 HEADS DUAL-LITE *CVSI WITH REMOTE EXT. HEADS (2) - 10 WATTS FOR 90 MINUTES, 6V D.C.
- DUAL-LITE CSHD0605 AT DOORS (EXTERIOR)
- HUBBELL, DUAL-LITE LES MODEL EXIT SIGN W/ GREEN ILLUMINATED LETTERING (ARROW INDICATES DIRECTIONAL INTENT)
- TEMPERATURE CONTROL PANEL - PROVIDED BY M.C. WIRED BY E.C.
- DUPLEX RECEPTACLE- 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE - MOUNT 18" AFF. "R" DENOTES REFRIGERATOR, "D" DENOTES DOUBLE DUPLEX
- DUPLEX RECEPTACLE- 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE - MOUNT 18" AFF. BOTTOM RECEPTACLE SWITCHED
- DUPLEX RECEPTACLE- GROUND FAULT OUTLET 20A, 125V- TAMPER PROOF WITH MATCHING PLATE FURNISHED W/ OUTLET. FLUSH MOUNTED 45" AFF EXCEPT AS NOTED.
- DUPLEX RECEPTACLE- 15A, 125V SPEC. GRADE GROUNDING TYPE - FLUSH FLOOR MOUNTED.
- RANGE OUTLET 50 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
- DRYER OUTLET 30 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
- FIRE ALARM CONTROL PANEL
- FIRE ALARM AUDIO/VISUAL MOUNT 6'-8" AFF - NUMERAL DENOTES CANDELA RATING "MH" DENOTES MINIHORN. NO DESIGNATION EQUILS A 15cd.
- FIRE ALARM PULL STATION - MOUNT 48" AFF
- FIRE ALARM VISUAL STROBE ONLY - FLUSH MOUNT 6'-8" AFF NUMERALS DENOTE CANDELA RATINGS.
- SYSTEM CONNECTED FIXED TEMPERATURE HEAT DETECTOR
- SMOKE DETECTOR, PHOTOELECTRIC TYPE- SYSTEM CONNECTED. "ER" - ELEV. RECALL
- SYSTEM CONNECTED SMOKE DETECTOR, PHOTOELECTRIC TYPE- W/ SOUNDER BASE- "SB" DENOTES SOUNDER BASE.
- DUCT SMOKE DETECTOR & TEST STATION
- CABLE TV JUNCTION BOX "CTV" - SIZE AS REQUIRED BY CABLE TV CO.
- TV OUTLET LOCATION - CABLE AND JACKS BY E.C.
- TELEPHONE/DATA DUAL JACK LOCATION MOUNT 18" AFF - TWO CAT 5E CABLES BACK TO TBB.
- TELEPHONE JACK LOCATION MOUNT 18" AFF - ONE CAT 5E CABLE BACK TO TBB.
- PHOTOCELL
- LIGHTING CONTACTOR
- TIMECLOCK
- PUSHBUTTON FOR ELECTRICALLY OPERATED DOOR - WIRED BY E.C.
- DOOR PUSHBUTTON
- INTERCOM PANEL IN UNIT
- DOOR ELECTRIC STRIKE
- INTERCOM PANEL AT RECEPTION
- SPRINKLER SYSTEM FLOW SWITCH - SUPPLIED BY SPRINKLER CONTRACTOR
- SPRINKLER SYSTEM TAMPER SWITCH - SPRINKLER CONTRACTOR.
- MOTION SENSOR (WATTSTOPPER OR EQUAL) CORRIDORS- WT-2255 SENSOR & B120E-P POWER PACK OTHER COMMON SPACES- WT-605 SENSOR & B120E-P POWER PACK
- NURSES CALL BUTTON
- NURSES CALL LIGHT

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GENERAL NOTES:

REVISIONS:



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Project Status:
Bid Set

Project Number:
SR0712

Project Title:

Seaside Rehab & Healthcare Center
850 Baxter Blvd
Portland, ME

Drawing Name:
NOTE, ABBREVIATIONS, SYMBOL SYMBOL
LEGEND AND LIGHT FIXTURE SCHEDULE

Scale:
NOT TO SCALE

SHEET

Date:
10/29/12

E-4