

GENERAL NOTES

- NOT ALL SYMBOLS INDICATED IN THE LEGEND APPEAR ON THE DRAWINGS. COORDINATE WORK ACCORDINGLY. COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.
- ALL RECEPTACLES SHALL BE INSTALLED 18" AFF TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- MOUNT PANELS IN RESIDENTIAL SPACES SO NO CIRCUIT BREAKER HANDLE IS HIGHER THAN 44" AFF.
- 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-IP, 120V CIRCUIT IN EXCESS OF 70' SHALL BE #10 AWG.
- 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.
- TEST ALL EMERGENCY LIGHTING UNITS FOR PROPER OPERATION OF LAMPS AND BATTERIES.
- SEE MECHANICAL PLAN FOR HVAC UNITS, PUMPS AND FANS CONTROLLED BY THERMOSTATS (PROVIDED BY ATC CONTRACTOR).
- 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 MFGR RECOMMENDATION.
- ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.
- ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE SEPARATION.
- ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.
- AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70 ARTICLE 250.
- 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.
- COORDINATE INSTALLATION OF VOICE/DATA OUTLETS WITH OWNER, MIS OR COMMUNICATIONS CONTRACTOR.
- LOCATE DISCONNECTS AT EQUIPMENT AS REQUIRED BY MANUFACTURER. LOCATIONS ON DRAWINGS ARE APPROXIMATE.
- 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.
- PROVIDE RISER OR PLENUM RATED CABLES ABOVE SUSPENDED CEILINGS.
- THE CONTRACTOR SHALL SET ALL ELECTRONIC BREAKERS TO SPECIFIED TRIP SETTINGS BEFORE ENERGIZING EQUIPMENT.
- PROVIDE EXPANSION FITTINGS FOR ALL UNDERGROUND RACEWAYS ENTERING ENCLOSURES ATTACHED TO FIXED STRUCTURES.
- OUTDOOR RECEPTACLE COVERS SHALL COMPLY WITH NFPA 70 - ARTICLE 406.9.
- ALL CONDUCTOR INSULATION FOR BUILDING WIRE SHALL BE THWN/THHN UNLESS NOTED OTHERWISE.
- PROVIDE LABEL ON SERVICE EQUIPMENT INDICATING AVAILABLE SHORT CIRCUIT CURRENT OBTAIN VALUES FROM ENGINEER.
- PROVIDE ARC FAULT LABELS PER NFPA 70-ARTICLE 110.24
- IF BUILDING REQUIRES TWO SERVICE ENTRANCES, PROVIDE SIGNS PER NFPA 70-230.
- OUTLETS INSTALLED IN FIRE RATED WALLS BACK TO BACK SHALL BE SEPARATED BY 24" MINIMUM OR BE PROTECTED WITH "PUTTY PADS" PER 2009 INTERNATIONAL BUILDING CODE SECTION 713.3.2
- PROVIDE AIR VAPOR BARRIER BOXES FOR WIRING DEVICES IN EXTERIOR WALLS AND INTERIOR SOUND CONTROL WALLS BETWEEN RESIDENT ROOMS. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE LESSCO MODEL NUMBER: VAPORBOX
- MINIMUM WIRE SIZE ON ALL BRANCH CIRCUITS SHALL BE #12.
- PROVIDE SIGN AT SERVICE ENTRANCE EQUIPMENT INDICATING TYPE AND LOCATION OF EMERGENCY GENERATOR PER NEC 700.7.

ABBREVIATIONS

A	AMP	LP	LIGHTING PANELBOARD
AC	ALTERNATING CURRENT, ABOVE COUNTER	LTG	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
AFB	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MDF	MAIN DISTRIBUTION PANEL
AIC	AMPERES INTERRUPTING CAPACITY	MH	MANHOLE
AL	ALUMINUM	MLO	MAN LUGS ONLY
AT	AMP TRIP	MTS	MANUAL TRANSFER SWITCH
ATC	AUTOMATIC TEMPERATURE CONTROL	NC	NORMALLY CLOSED OF 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
EC	ELECTRICAL CONTRACTOR	RL	ELECTRICAL EQUIPMENT TO BE RELOCATED
EF	EXHAUST FAN	RM	ELECTRICAL EQUIPMENT TO REMAIN
ER	EXISTING REMAINS IN PLACE	RSC	RIGID STEEL CONDUIT
ERL	EXISTING RELOCATE	RTU	ROOF TOP UNIT
ERM	EXISTING REMOVE	RV	ELECTRICAL EQUIPMENT TO REMOVE
EUH	ELECTRIC UNIT HEATER	RVNR	REDUCED VOLTAGE, NON-REVERSING
EWC	ELECTRICAL WATER COOLER	SB	SMART BOARD
FACP	FIRE ALARM CONTROL PANEL	SF	SUPPLY FAN
FAPS	FIRE ALARM PULL STATION	SLD	SINGLE LINE DIAGRAM
FRP	FIBER REINFORCED PLASTIC	SM	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE, MOUNTED AT UNIT
FVNR	FULL VOLTAGE, NON-REVERSING	SS	SOLID STATE
FWU	FURNISHED WITH UNIT	SWBD-1	SWITCHBOARD NUMBER AS DESIGNATED
DC	DIRECT CURRENT	TC	TIME CLOCK
GFI	GROUND FAULT INTERRUPTER	TS	TRANSFER SWITCH
GND	GROUND	T&B	TOP AND BOTTOM
HID	HIGH INTENSITY DISCHARGE	TYP	TYPICAL
HOA	HAND-OFF-AUTOMATIC	UG	UNDERGROUND
HP	HORSEPOWER	V	VOLT
HPS	HIGH PRESSURE SODIUM	VA	VOLT-AMPERE
HZ	HERTZ	VFD	VARIABLE FREQUENCY DRIVE
ICB	INSULATED CASE CIRCUIT BREAKER	W	WATT
JB	JUNCTION BOX	W/	WITH
KAIC	THOUSAND AMP INTERRUPTING CAPACITY	WP	WEATHERPROOF
KCMIL	THOUSAND CIRCULAR MIL	XFMR	TRANSFORMER
KV	THOUSAND VOLTS	XP	EXPLOSION PROOF
KVA	THOUSAND VOLT-AMPS	3PH	THREE PHASE
KW	THOUSAND WATTS (KILOWATT)	4W	FOUR WIRE
LC	LIGHTING CONTACTORS	3W	THREE WIRE
LCP	LATERAL CONTROL PIT		
LED	LIGHT EMITTING DIODE		

QTY	TYPE	MFG.	DESCRIPTION
5	A1	LIGHTOLIER	1102P1/1126 with LED lamp
21	A2	LIGHTOLIER	1000P1/1090 with LED lamp
54	A3	LIGHTOLIER	1000P1/1090 with LED lamp
55	B1	LIGHTOLIER	S5R830K7
36	B2	LIGHTOLIER	1102P1/1105 with LED lamp
19	C1	PROGRESS	P7217-30/ P7003-09
21	C2	LBL LIGHTING	LW559METSILEDW
65	C3	ELK LIGHTING	19080-2
70	C4	WAC	WS12620-PN
35	C5	WAC	WS12718PN
49	C6	BARTCO	BFL250
10	C7	WAC	WL-LED100-AMWT
80	C8	WAC	WL-LED100-AMWT
108	D1		pendants by buyer
22	D2	POSSINI	EU2TOB2
12	D3	POSSINI	EU2TOB2
46	E1	LIGHTOLIER	S5R830K7
62	F	TECH LIGHTING	800CBL5P Kit with 5 fixtures
6	H1	BEACON	ENDURA 27" FLOOD
10	H2	PROGRESS	P5644-20
20	J1	COLUMBIA	AWN4-232-ELWU
55	L1	STONE LIGHTING	LAYLA SN
82	UC	NICOR	NUC221WH
29	UC	NICOR	NUC212WH
4	EBU-WP	DUAL LITE	LZ30-10W-HTR
35	EBU	LIGHTOLIER	LZ30-10W
12	EXIT	LIGHTOLIER	VERWEM
11	MS	SENSOR SWITCH	CMR-PDT-9
2	EBU-1	DUAL LITE	LZ30-10W
<b>SITE POLES</b>			
5	SITE	HOLOPHANE	DS210590AU617A CM17CBS-CA/BK/ESL 110 4K AS B4

SYMBOL LIST

	CEILING MOUNTED LIGHT FIXTURE.
	WALL MOUNTED LIGHT FIXTURE.
	SINGLE POLE LIGHT SWITCH
	THREE-WAY LIGHT SWITCHES
	DIMMER SWITCH MINIMUM 1000W OR AS REQUIRED PER CIRCUIT
	DUPLEX RECEPTACLE, 120V, 18" AFF.
	DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER 8" ABOVE COUNTER TO CL
	REFRIGERATOR DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT RECEPTACLE AT 48 INCHES ABOVE FINISHED FLOOR.
	DUPLEX RECEPTACLE, 120V, 18" AFF, TOP OUTLET SWITCHED, BOTTOM SOLID
	120V DOUBLE DUPLEX CONVENIENCE RECEPTACLE
	DUPLEX RECEPTACLE ABOVE COUNTER, 8" ABOVE COUNTER TO CL
	DUPLEX RECEPTACLE, 120V, FLOOR MOUNTED, COORDINATE LOCATION WITH ARCHITECT
	TELEPHONE JACK COMPLETE W/JACK AND COVER, ('W' WALL MOUNTED @ 4'-0" A.F.F)
	TELEPHONE/DATA DUAL JACK, MOUNT 18" AFF, RUN TWO CAT 5E CABLES BACK TO TBB
	CABLE TV OUTLET, COMPLETE W/JACK AND COVER, HEIGHT AT 18" TO CL AFF.
	MOTOR
	FUSED DISCONNECT SWITCH, (3R RAIN-PROOF).
	HEAT DETECTOR
	CARBON MONOXIDE DETECTOR
	110V COMBINATION TYPE LOCAL TYPE SMOKE DETECTOR AND CO MONITOR W/BATTERY
	FIRE ALARM MINI HORN
	DOOR CHIME
	DOOR BELL
	HOMERUN TO PANEL WITH CONDUCTOR.(HOT, NEUTRAL, GROUND)
	JUNCTION BOX
	LIGHTING & POWER PANEL, RECESSED
	FIRE ALARM CONTROL PANEL WITH DEDICATED TELEPHONE JACK
	TAMPER SWITCH
	FLOW SWITCH
	TIME CLOCK
	COMBINATION FAN AND LIGHT, PROVIDE SEPARATE SWITCHES FOR FAN AND LIGHT. VERIFY LOCATIONS WITH PLANS AND ARCHITECTURAL'S PRIOR TO ROUGH-IN

FIRE ALARM LEGEND

	SYSTEM TYPE SMOKE DETECTOR, ANALOG ADDRESSABLE "ER" DENOTED ELEVATOR RECALL
	DUCT SMOKE DETECTOR WITH REMOTE TEST SWITCH. TUBE WILL HAVE MINIMUM 10 HOLES
	HEAT DETECTOR, ADDRESSABLE TYPE
	FIRE ALARM PULL AND HORN/LIGHT DEVICE. PER NFPA 72/ SYNCHRONIZED, 15CD IN CORR, MIN 75 CD IN COMMON AREAS
	FIRE ALARM PULL STATION, ADDRESSABLE, MOUNTED AT 4'-0" AFF.
	FIRE ALARM HORN/LIGHT (TEMPORAL/SYNCHRONIZED), MTD AT 6'-8" AFF 15 CD IN CORRIDORS, MIN 75 CD IN COMMON AREAS
	FIRE ALARM LIGHT ONLY (SYNCHRONIZED), MTD AT 6'-8" AFF 15 CD IN CORRIDORS, MIN 75 CD IN COMMON AREAS
	HORN / STROBE
	SPRINKLER SYSTEM FLOW SWITCH, WIRING ONLY.
	SPRINKLER SYSTEM TAMPER SWITCH, WIRING ONLY.
	LOW PRESSURE SWITCH WIRED AS SUPERVISORY
	FIRE ALARM CONTROL PANEL WITH DEDICATED TELEPHONE JACK
	FIRE ALARM REMOTE ANNUNCIATOR WITH TROUBLE BUZZER.
	DIALER BY E.C. WIRED TO UL LISTED ALARM CO.
	LOCAL TYPE, 110V SMOKE DETECTOR, PHOTOELECTRIC TYPE WITH BATTERY BACK-UP. "L" INDICATES BUILT-IN STROBE 177CD)TANDEM WIRED WITH OTHER LOCAL DETECTORS IN THE UNIT. WIRED TO LIGHTING CIRCUIT
	LOCAL TYPE, 110V SMOKE/CO COMBINATION DETECTOR, PHOTOELECTRIC TYPE WITH BATTERY BACK-UP. "L" INDICATES BUILT-IN STROBE 177CD)TANDEM WIRED WITH OTHER LOCAL DETECTORS IN THE UNIT. WIRED TO LIGHTING CIRCUIT
	CO DETECTOR WITH BATTERY BACK UP
	MINI HORN/ TEMPORAL PER NFPA 72, LOW FREQUENCY IN BEDROOMS
	FIRE ALARM RADIO MASTER BOX
	CONTROL MODULE FOR FIRE EXISTINGUISHER

Prepared For:

Consultant:

Architect:

Project: SEAPORT LOFTS

Revisions:

Scale: 1/8" = 1'-0"

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OWNER REVISIONS

NOTES, ABBREVIATIONS AND SYMBOL LEGENDS

E2.1

BENNETT ENGINEERING  
MECHANICAL/ELECTRICAL  
0670186948

NEWBURY / HANCOCK ST.,  
PORTLAND ME