

ELECTRICAL SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
	2' x 4' FLUORESCENT FIXTURE. TYPE AS SCHEDULED.	CEILING AS SCHEDULED
	2' x 2' FLUORESCENT FIXTURE. TYPE AS SCHEDULED.	CEILING AS SCHEDULED
	CEILING MOUNTED DOWNLIGHT. TYPE AS SCHEDULED.	CEILING AS SCHEDULED
	CEILING MOUNTED EXIT SIGN. (DIRECTIONAL CHEVRONS AS REQUIRED.) TYPE AS SCHEDULED.	CEILING AS SCHEDULED
	WALL MOUNTED EXIT SIGN. (DIRECTIONAL CHEVRONS AS REQUIRED.) TYPE AS SCHEDULED.	WALL AS SCHEDULED
	1'X4' FLUORESCENT FIXTURE TYPE AS SCHEDULED	CEILING AS SCHEDULED
	BATTERY POWERED EGRESS LIGHT, TYPE AS SCHEDULED	CEILING OR WALL AS SCHEDULED
	FLUORESCENT STRIP FIXTURE. TYPE AS SCHEDULED.	AS SCHEDULED
	WALL MOUNTED UP/DOWN FIXTURE. TYPE AS SCHEDULED.	WALL AS SCHEDULED
	WALL SCONCE FIXTURE. TYPE AS SCHEDULED.	WALL AS SCHEDULED
	DIRECTIONAL/ADJUSTABLE DOWNLIGHT FIXTURE. TYPE AS SCHEDULED.	CEILING AS SCHEDULED
	TRACK AND TRACK MOUNTED FIXTURES. TYPE AND QUANTITY AS SCHEDULED.	CEILING AS SCHEDULED
	PENDANT MOUNTED FIXTURE. TYPE AS SCHEDULED.	CEILING AS SCHEDULED
	A SOLID COLOR JUNCTION BOX OR FIXTURE DENOTES FIXTURE CONNECTED TO EMERGENCY SYSTEM CIRCUITING OR PROVIDED WITH BATTERY BACKUP.	_____
	JUNCTION BOX MOUNTED ABOVE CEILING OR FLUSH IN WALL WITH COVER. SIZE PER CODE.	ABOVE CEILING OR 16" A.F.F.
	SINGLE POLE TOGGLE SWITCH, 20 AMP, 120/277 VOLT	44" A.F.F.
	KEY OPERATED SINGLE POLE TOGGLE SWITCH, 20 AMP, 120/277 VOLT	44" A.F.F.
	DIMMER SWITCH, 2000 WATT, OR SIZE AS NOTED.	44" A.F.F.
	THREE-WAY TOGGLE SWITCH, 20 AMP, 120/277 VOLT	44" A.F.F.
	TIMER SWITCH, 20 AMP, 120/277 VOLT, WATTSTOPPER OR APPROVED EQUAL	44" A.F.F.
	MOTOR RATED SWITCH, 20 AMPS, MOUNT ADJACENT TO EQUIPMENT SERVED OR INSIDE ACCESS COVER IN THRU-WALL HVAC UNITS (COORDINATE WITH DIVISION 15).	AS NOTED
	SPECIAL RECEPTACLE, SIZE AND CONFIGURATION AS NOTED.	16" A.F.F.
	SINGLE RECEPTACLE, 125V, 20 AMP, NEMA 5-20R (CONCEAL BEHIND COOLER HOUSING WHERE SERVING WATER COOLER)	16" A.F.F.
	QUADRAPLEX RECEPTACLE, 125V, 20 AMP, NEMA 5-20R	16" A.F.F.
	DUPLEX RECEPTACLE, 125V, 20 AMP, NEMA 5-20R	16" A.F.F.
	DUPLEX RECEPTACLE, 125V, 20 AMP, NEMA 5-20R, INSTALLED HORIZONTAL	42" A.F.F. OR 6" ABOVE COUNTER ION
	DUPLEX RECEPTACLE, TOP HALF SWITCHED, 125V, 20 AMP, NEMA 5-20R	16" A.F.F.
	DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER TYPE, 125V, 20A, NEMA 5-20R	16" A.F.F.
	DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER TYPE, 125V, 20A, NEMA 5-20R, INSTALLED HORIZONTAL	42" A.F.F. OR 6" ABOVE COUNTER SPACE
	JUNCTION BOX, ONE GANG, 4"X4"MIN., CAST IRON, BRASS BLANK COVER PLATE PROVIDE COVERPLATE AND FLANGE/RING SUITABLE FOR FLOOR FINISH, WALKER 880 SERIES. COORDINATE WITH INTERIOR DESIGNER.	FLUSH-IN-FLOOR
	TELEVISION SYSTEM OUTLET AND 3/4" EMPTY CONDUIT WITH PULL WIRE STUBBED UP 6" ABOVE CEILING TERMINATED WITH AN INSULATED BUSHING. COVERPLATE COLOR TO BE SELECTED BY ARCHITECT.	16" A.F.F.

TERMS AND ABBREVIATIONS

AC	6" ABOVE COUNTER SPACE OR 42" AFF
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
BKBD	BACKBOARD
BKR	BREAKER
CONN	CONNECTED OR CONNECTION
CW	COLD WATER
DN	DOWN
EC	EMPTY CONDUIT
ELECT	ELECTRICAL
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FWU	FURNISHED WITH UNIT
G OR GRND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
IG	ISOLATED GROUND
LTG	LIGHTING
MTD	MOUNTED
PF	POWER FACTOR
NEC	NATIONAL ELECTRICAL CODE
PNL	PANEL
RECEPT.	RECEPTACLE
SW	SWITCH
TEL	TELEPHONE
TTB	TELEPHONE TERMINAL BACKBOARD
TV	TELEVISION
XFMR	TRANSFORMER
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF

ELECTRICAL SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
	TELEPHONE OUTLET L-3 SUBSCRIPT: AC=6" ABOVE COUNTER SPACE MOUNTED HORIZONTALLY.	16" A.F.F.
	DUPLEX (VOICE/DATA) OUTLET L-3 SUBSCRIPT: AC=6" ABOVE COUNTER SPACE MOUNTED HORIZONTALLY.	16" A.F.F.
	COMPUTER OR DATA OUTLET L-3 SUBSCRIPT: AC=6" ABOVE COUNTER SPACE MOUNTED HORIZONTALLY.	16" A.F.F.
	CARBON MONOXIDE/SMOKE COMBINATION DETECTOR, SUBSCRIPT: U=INSTALLED UNDER RAISED FLOOR	CEILING MOUNTED, UNO
	HEAT DETECTOR	CEILING MOUNTED
	WALL MOUNTED CARBON MONOXIDE/SMOKE COMBINATION DETECTOR	6" B.F.C.
	SYSTEM SMOKE DETECTOR - AUDIO/VISUAL SIGNAL	80" A.F.F. OR 6" B.F.C. WHICHEVER IS LOWEST
	DUCT MOUNTED SMOKE DETECTOR	ON DUCT
	FIRE ALARM-PULL STATION	44" A.F.F.
	FIRE ALARM - AUDIO/VISUAL SIGNAL	80" A.F.F. OR 6" B.F.C. WHICHEVER IS LOWEST
	FIRE ALARM - SYSTEM AUDIO SIGNAL	80" A.F.F. OR 6" B.F.C. WHICHEVER IS LOWEST
	FIRE ALARM - VISUAL SIGNAL	80" A.F.F. OR 6" B.F.C. WHICHEVER IS LOWEST
	FIRE ALARM SYSTEM INFRARED BEAM DETECTOR 'T' INDICATES TRANSMITTER 'R' INDICATES RECEIVER	AS NOTED
	FIRE ALARM SYSTEM MAGNETIC DOOR HOLD OPEN DEVICE	±78" A.F.F.
	FIRE ALARM SYSTEM CONNECTION TO SPRINKLER SYSTEM FLOW SWITCH	ON PIPING
	FIRE ALARM SYSTEM CONNECTION TO SPRINKLER SYSTEM TAMPER SWITCH	ON PIPING
	RACEWAY INSTALLED CONCEALED IN WALLS AND/OR ABOVE CEILING OR IN SLAB SEE NOTE L-2	PER SPECIFICATIONS
	RACEWAY INSTALLED CONCEALED IN/OR BELOW FLOOR SLAB OR BELOW GRADE SEE NOTE L-2	PER SPECIFICATIONS
	ARROWHEAD INDICATES HOMERUN TO ITEM AS DESIGNATED. SEE NOTE L-2	PER SPECIFICATIONS
	RACEWAY INSTALLED EXPOSED PARALLEL AND PERPENDICULAR TO WALLS SEE NOTE L-2	PER SPECIFICATIONS
	NOTED KEYED TO DRAWING. NUMERAL INDICATES SPECIFIC NOTE.	-
	CONDUIT TURNING UP/OR DOWN	_____
	PLYWOOD TERMINAL BACKBOARD 4"X8"X3/4", PAINT WITH (2)TWO COATS OF GREY ENAMEL FIRE RETARDANT PAINT. BOLT TO WALL AT EACH CORNER.	TOP AT 9'-6"
	MAGNETIC MOTOR STARTER	_____
	COMBINATION TYPE MAGNETIC MOTOR STARTER AND EQUIPMENT DISCONNECT/SIZE FUSE RATING (MINIMUM SIZE 0)	_____
	MOTOR CONNECTION	_____
	DISCONNECT SWITCH MOUNT AS DETAILED A/P INDICATES AMPERE RATING, NO. POLES, A/P/F INDICATES AMPERE RATING, NO. POLES, FUSE AMPS	ON UNIT
	PANELBOARD FLUSH OR SURFACE MOUNTED AS INDICATED, REFER TO PANELBOARD SCHEDULES	PER SPECIFICATIONS
	TWO COMPARTMENT SURFACE METAL RACEWAY WITH DIVIDER, DUPLEX OUTLETS (NEMA 5-20R) AT 18" O.C. WIRED ALTERNATELY, EQUAL TO WIREMOLD G-4000 SYSTEM, COORDINATE MOUNTING REQUIREMENTS. PROVIDE ACCESSORIES, FITTINGS AND HARDWARE FOR A COMPLETE SYSTEM. LOCATE VOICE/DATA OUTLETS AS SHOWN ON PLANS.	AS NOTED
	DISTRIBUTION EQUIPMENT AS NOTED	FLOOR MOUNTED PER SPECIFICATIONS
	STEP DOWN VOLTAGE TRANSFORMER	FLOOR OR SUSPENDED AS NOTED
	GROUND ROD ASSEMBLY	CONCEALED
	CLOSED CIRCUIT TELEVISION CAMERA. INCLUDE CONNECTION TO NEAREST ADEQUATE UNSWITCHED 120VOLT SOURCE, UON.	CEILING OR WALL
	CARD READER ROUGH-IN. VERIFY EXACT REQUIREMENTS.	_____
	KEY ENCODER ROUGH-IN AND HOMERUN TO COMPUTER ROOM.	_____
	ADA DOORBELL	80" A.F.F. OR 6" B.F.C. WHICHEVER IS LOWEST
	ADA PUSHBUTTON FOR DOORBELL	40" A.F.F.
	SPEAKER	CEILING MOUNTED
LEGEND NOTES		
L-1 PROVIDE A DEDICATED NEUTRAL FOR EACH CIRCUIT		
L-2 PROVIDE 2#12, 1#12G IN 1/2" CONDUIT FOR SINGLE HOMERUN. FOR EACH ADDITIONAL HOMERUN PROVIDE AN ADDITIONAL #12 AWG CONDUCTOR, UON.		
L-3 PROVIDE 3/4" CONDUIT WITH PULL WIRE TO ABOVE CEILING AND STUB OUT WITH INSULATED BUSHING.		

GENERAL NOTES

1. FIXTURE TYPE INDICATED BY UPPER CASE CHARACTERS, SWITCHING AND GROUPING DESIGNATED BY LOWER CASE LETTER AND CIRCUIT BY NUMBER (WHERE APPLICABLE)
2. REFER TO THE ARCHITECTURAL/INTERIORS REFLECTED CEILING PLANS FOR EXACT FIXTURE PLACEMENT AND DIMENSIONS.
3. REFER TO THE ARCHITECTURAL/INTERIORS DOCUMENTS FOR ACTUAL DEVICE LOCATIONS AND DIMENSIONS.
4. COORDINATE THE INSTALLATION OF ALL CEILING MOUNTED DEVICES (FIRE ALARM SYSTEM DEVICES AND SPEAKERS, SOUND SYSTEM SPEAKER, ETC.) TO BE SYMMETRICAL ABOUT LIGHT FIXTURES AND SPRINKLER HEADS. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. TYPICAL.
5. ALL MOUNTING OF EQUIPMENT IS AS SHOWN UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT THE COLOR/FINISHES OF ALL ELECTRICAL DEVICES, OUTLETS, COVERPLATES AND TRIM.
6. EMERGENCY BATTERY PACKS AND EXIT SIGNS SHALL BE CONNECTED AHEAD OF SWITCH. PROVIDE A DEDICATED NON-SWITCHED PHASE CONDUCTOR TO BATTERY PACKS.
7. REFER TO MECHANICAL DRAWINGS FOR DUCT SMOKE DETECTOR LOCATIONS AND QUANTITIES OPERATION SHALL INCLUDE DUAL CONTACT BASE WITH LOCAL EQUIPMENT SHUTDOWN AND FIRE ALARM SIGNAL INITIATION.
8. WHEN CONDUCTOR OR CONDUIT SIZE IS INDICATED FOR BRANCH CIRCUIT HOME RUN, THE CONDUCTOR AND CONDUIT SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.
9. MAKE ELECTRICAL CONNECTIONS TO ELECTRIC WATER COOLERS FROM JUNCTION BOX FLUSH-MOUNTED IN WALL BEHIND COOLER HOUSING. LOCATE THE JUNCTION BOX FOR ACCESSIBILITY FROM WITHIN COOLER HOUSING.
10. REFER TO THE APPROPRIATE DRAWINGS FOR THE EXACT LOCATION OF EQUIPMENT INSTALLED UNDER OTHER DIVISIONS OF THE DOCUMENTS, WHICH REQUIRE ELECTRICAL SERVICE.
11. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS.
12. WALL SWITCHES CONTROLLING CIRCUITS OF OPPOSITE PHASES SHALL NOT BE INSTALLED IN COMMON BOX UNLESS PERMANENT BARRIER IS PROVIDED.
13. ALL RACEWAY AND EQUIPMENT SUPPORTS AND HANGERS SHALL BE FULLY COORDINATED WITH STRUCTURAL DRAWINGS TO INSURE LOCATION OF SAME OCCURS WITHIN FOUR (4) INCHES OF PANEL POINT ON BAR JOISTS.
14. COORDINATE LOCATION OF ALL FLOOR MOUNTED MECHANICAL EQUIPMENT IN ORDER TO VERIFY POWER & CONTROL RACEWAY CONCEALED IN SLABS TERMINATED AT PROPER LOCATION.
15. DISCONNECT SWITCHES, MOTOR STARTERS AND OTHER ELECTRICAL EQUIPMENT INSTALLED ABOVE ACCESSIBLE CEILINGS AND REQUIRING ACCESS FOR MAINTENANCE, SHALL BE INSTALLED WITH BOTTOM OF DEVICE ONE (1) FOOT ABOVE CEILING TO PROVIDE READY ACCESSIBILITY.
16. MECHANICAL, PLUMBING, FIRE PROTECTION AND OTHER EQUIPMENT ARE SHOWN ON FLOOR PLAN IN APPROXIMATE LOCATION. COORDINATE WITH M, P, FP AND CONTRACT DRAWINGS/SUBMITTALS FOR EXACT LOCATION OF EQUIPMENT.
17. GENERAL DIAGRAMATIC RACEWAY INTERCONNECTIONS OF EQUIPMENT, FIXTURES AND DEVICES ARE INDICATED ON FLOOR AND REFLECTED CEILING PLANS, REFER TO STRUCTURAL AND ARCHITECTURAL PLANS FOR ELEVATION CHANGES AND RACEWAY ROUTES.
18. RACEWAY FOR EXTERIOR LIGHTING MAY BE INDICATED OUTSIDE OF BUILDING FOOTPRINT FOR CLARITY. ROUTE ALL EXTERIOR LIGHTING RACEWAY WITHIN BUILDING STRUCTURE.
19. POWER AND COMMUNICATIONS/DATA CONDUITS CAN CROSS AT 90°, BUT WHERE PARALLEL, SHALL BE A MINIMUM OF 8" APART.
20. PROVIDE A COMPLETE FIRE ALARM SYSTEM TO MEET CODE. IT IS THE INTENTION OF THE DRAWINGS TO PROVIDE DEVICES AS LISTED BELOW, WHERE NOT SHOWN, PROVIDE:
 - A. PULL STATIONS WITHIN 5 FEET OF ALL EXIT DOORS. THIS INCLUDES ALL EXTERIOR DOORS, STAIRWELL DOORS ON EACH FLOOR, ASSEMBLY AREA DOORS, ETC.
 - B. VISUAL NOTIFICATION DEVICES IN ALL HANDICAP ACCESSIBLE SPACES WITHIN 15 FEET OF ALL EXITS, NO FARTHER THAN 100 FEET APART, AND AS INDICATED BY NFPA.
 - C. AUDIO DEVICES TO REACH 75db OR 15db ABOVE AMBIENT IN ALL AREAS OF BUILDING.
21. FIELD COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CHARACTERISTICS WITH DIV.15 CONTRACTOR PRIOR TO ROUGH-IN. ADJUST ELECTRICAL CONNECTIONS IF NECESSARY TO MATCH ACTUAL EQUIPMENT IN FIELD. FOR EXAMPLE, COORDINATE THE NAMEPLATE OVERCURRENT PROTECTION DEVICE RATING OF MECHANICAL EQUIPMENT AMONG MECHANICAL AND ELECTRICAL SUBCONTRACTORS. ADJUST CIRCUIT BREAKER TO MATCH NAMEPLATE RATING OF EQUIPMENT AT NO ADDITIONAL COST.
22. FIELD COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CHARACTERISTICS WITH DIV.15 CONTRACTOR PRIOR TO ROUGH-IN. ADJUST ELECTRICAL CONNECTIONS IF NECESSARY TO MATCH ACTUAL EQUIPMENT IN FIELD. FOR EXAMPLE, COORDINATE THE NAMEPLATE OVERCURRENT PROTECTION DEVICE RATING OF MECHANICAL EQUIPMENT AMONG MECHANICAL AND ELECTRICAL SUBCONTRACTORS. ADJUST CIRCUIT BREAKER TO MATCH NAMEPLATE RATING OF EQUIPMENT AT NO ADDITIONAL COST.
23. THE ELECTRICAL INSTALLATION SHALL CONFORM TO CHAPTER 27 OF THE INTERNATIONAL BUILDING CODE, AND NATIONAL ELECTRICAL CODE. A PERMIT SHALL BE SECURED PRIOR TO COMMENCEMENT OF ANY WORK.
24. EACH PENETRATION OF A FIRE RESISTANT RATED ASSEMBLY BY A PIPE, TUBE WIRE OR CONDUIT SHALL BE PROTECTED BY A THROUGH PENETRATION FIRE STOP SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTM E 814 OR E199.
25. RECEPTACLES, SWITCHES, OUTLETS, ETC. SHALL NOT BE INSTALLED BACK TO BACK ON FIRE RESISTANCE RATED WALLS. THEY SHALL BE AT LEAST 24-INCHES APART.
26. ATTENTION IS CALLED TO THE FACT THAT THIS IS A BUILD-OUT WITHIN AN EXISTING BUILDING WHEN THE WORK IS FINISHED. THE ELECTRICAL INSTALLATION SHALL BE COMPLETE IN EVERY RESPECT. COMPLETELY INTEGRATED WITH ALL THE EXISTING ELECTRICAL SYSTEMS. ALL EXISTING ELECTRICAL WORK REQUIRED TO REMAIN IN USE DURING AND/OR AFTER THE COMPLETION OF THE WORK SHALL BE EXTENDED, REROUTED, REPLACED, RECONNECTED OR OTHERWISE TO FIT INTO THE BUILD-OUT AREA AND LEFT IN SAFE WORKING ORDER.

PROJECT

PORTLAND HILTON GARDEN INN ADDITION

LOCATION

PORTLAND

145 JETPORT BLVD
PORTLAND, MAINE 04102

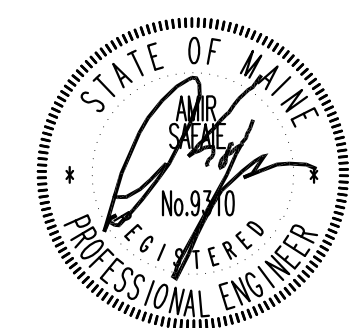
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ISSUED FOR: DATE:

REVIEW

PRICING JULY 20 2012

PERMITTING JAN. 30.2013

CONSTRUCTION

REVISIONS

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JOB NO.

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DRAWING TITLE

ELECTRICAL SYMBOLS AND NOTES

SHEET NO.

E0.01

SL PROJECT# 120503

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