

ELECTRICAL SYMBOLS LIST

(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)

LIGHTING SYMBOLS

- 2x4' / 2x2' / 1x4' FLUORESCENT CEILING MOUNTED FIXTURE
- FIXTURE TYPE
- CONTROLLED BY SWITCH
- NIGHT LIGHT
- SIMILAR TO ABOVE WITH EMERGENCY BACKUP
- CONTROLLED BY SWITCH
- WALL MOUNTED FLUORESCENT LIGHT FIXTURE
- FIXTURE TYPE
- NIGHT LIGHT
- FLUORESCENT STRIP FIXTURE - TYPE AS NOTED
- CONTROLLED BY SWITCH
- EM = EMERGENCY BACKUP
- UNDERCABMOUNT LIGHT FIXTURE
- FIXTURE TYPE
- CEILING MOUNTED FIXTURE
- CONTROLLED BY SWITCH
- SIMILAR TO ABOVE WITH EMERGENCY BACKUP
- CONTROLLED BY SWITCH
- WALL MOUNTED LIGHT FIXTURE
- CONTROLLED BY SWITCH
- SIMILAR TO ABOVE WITH EMERGENCY BACKUP
- CONTROLLED BY SWITCH
- ACCENT LIGHT OR WALL WASHER
- CONTROLLED BY SWITCH
- SIMILAR TO ABOVE WITH EMERGENCY BACKUP
- CONTROLLED BY SWITCH
- CEILING MOUNTED EXIT LIGHT - DIRECTIONAL ARROWS WHERE INDICATED - SHADED AREAS INDICATE ILLUMINATED FACE/FACES
- FIXTURE TYPE
- WALL MOUNTED EXIT LIGHT - DIRECTIONAL ARROWS WHERE INDICATED - SHADED AREAS INDICATE ILLUMINATED FACE/FACES
- FIXTURE TYPE

POWER SYMBOLS

- SINGLE POLE SWITCH
- DOUBLE POLE
- FOUR-WAY
- CONTROLS SWITCH LEG
- KEY OPERATED
- MOMENTARY CONTACT
- PILOT LIGHT
- DISCONNECTED SWITCH - TOGGLE TYPE MOTOR RATED, 20A, 1P, 50N
- WALL DIMMER - TYPE 'A'
- NUMBER INDICATES WATTAGE RATING
- OCCUPANCY SENSOR, CEILING MOUNTED (WATSTOPPER) #DT-300 / SENSOR SWITCH #SM-PDT-3
- OCCUPANCY SENSOR, WALL MOUNTED (WATSTOPPER) #DW-100 / SENSOR SWITCH #MS-PDT-P
- DUAL RELAY (WAT STOPPER) #DW-200/SENSOR SWITCH #MS-PDT-P-P-P
- INTENSITY CONTROL
- PHOTO CONTROL SWITCH
- TIME CLOCK - TYPE 'X'
- TRANSFORMER
- 20A, 125V DUPLEX RECEPTACLE - FLUSH WALL MOUNTED
- COFF
- 20A, 125V ISOLATED GROUND, DUPLEX RECEPTACLE, FLUSH FLOOR MOUNTED
- 20A, 125V DUPLEX RECEPTACLE FLUSH WALL MOUNTED
- 20A, 125V DUPLEX RECEPTACLE SURFACE MOUNTED
- 20A, 125V SURGE SUPPRESSION DUPLEX RECEPTACLE FLUSH WALL MOUNTED
- 20A, 125V DUPLEX RECEPTACLE FLUSH FLOOR MOUNTED
- 20A, 125V QUADRUPLX RECEPTACLE FLUSH FLOOR MOUNTED
- SPECIAL PURPOSE RECEPTACLE - FLUSH WALL MOUNTED
- A - TYPE REFER TO SPECIAL PURPOSE RECEPTACLE SCHEDULE
- PLUG-IN SURFACE METAL RACEWAY - LETTERS INDICATE TYPE - WITH SPECIAL PURPOSE RECEPTACLES WHERE INDICATED
- PEDestal MOUNTED JUNCTION BOX OR POLE-THRU FOR ELECTRIFIED FURNITURE POWER FEED.

FIRE ALARM SYSTEM

(NOT ALL ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT)

CEILING MOUNTED SMOKE SMOKE DETECTOR
E = FOR ELEVATOR RECALL

- SINGLE POLE
- THREE POLE
- AMPERAGE
- ABOVE FINISHED FLOOR
- AMPERE INTERRUPTING CAPACITY
- AUTOMATIC TRANSFER SWITCH
- AMERICAN WIRE GAUGE
- BUILDING
- CABINET
- CONDUIT
- CONDUIT BREAKER
- CLOSED CIRCUIT TELEVISION
- CEILING
- CONTROL
- CONNECTION
- COPPER
- DEGREE CELSIUS
- DEGREE FAHRENHEIT
- DIAMETER
- DISCONNECT
- DOWN
- DISTRIBUTION PANEL BOARD
- DRAWING
- EXISTING TO REMAIN
- ELECTRICAL CONTRACTOR
- ELECTRICAL
- EMERGENCY
- EXISTING TO BE REMOVED & RELOCATED
- EXISTING
- FIRE ALARM CONTROL PANEL
- FIRE ALARM ANNUNCIATOR PANEL
- FEEDER
- FIXTURE
- FLOOR
- FULL LOAD AMPERES
- FLEXIBLE
- FLUORESCENT
- GROUND
- GENERATOR
- GROUND FAULT INTERRUPTER
- HORSE POWER
- HERTZ
- ISOLATED GROUND
- INCANDESCENT
- JUNCTION BOX
- THOUSAND CIRCULAR MILS
- KILOVOLT
- KILOWATT
- KILOWATT HOUR
- LIGHTING
- MOTOR CIRCUIT BREAKER
- MOTOR CONTROL CENTER
- MAIN DISTRIBUTION PANEL
- MANHOLE
- MAIN LUG ONLY
- MOUNTED
- NEUTRAL
- NORMALLY CLOSED
- NOT IN CONTRACT
- NORMALLY OPEN
- NOT TO SCALE
- POLE
- PULL BOX
- PHASE
- PANEL
- POWER
- RECEPTACLE
- RELOCATED EXISTING
- EXISTING TO BE REMOVED AND RETURN TO OWNER
- SCHEDULE
- SPECIFICATION
- SPEAKER
- SWITCH
- SYSTEMS
- TRANSFORMER
- UNLESS OTHERWISE NOTED
- VOLT OR VOLTAGE

VOICE/DATA/P.A. SYMBOLS

- WALL MOUNTED PUBLIC ADDRESS SPEAKER
- CEILING MOUNTED PUBLIC ADDRESS SPEAKER
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MISCELLANEOUS SYMBOLS

- FLUSH PLATE (FLUSHED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR)

SECURITY SYMBOLS

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- VIDEO/INTERCOM STATION, PROVIDE BACKBOX AND CONDUIT AS REQUIRED BY EQUIPMENT MANUFACTURER.
- LOW VOLTAGE CAMERA (BY OTHERS)

ELECTRICAL GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF ELECTRICAL DEVICES AND EQUIPMENT. CONTRACTOR SHALL VERIFY ALL CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS, MAINTAIN HEADROOM AND OTHER CONDITIONS.
- SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE), WOOD SCREWS (WOOD OR PLY TRUSS STRONG FLOOR DECK), NAILS, RAIL PLUGS AND WOOD PLUGS ARE NOT PERMITTED WHERE REQUIRED BY STRUCTURE. PROVIDE ANCHOR BOLTS AND TIE BARS TO BE MORE THAN 10 FT APART. PROVIDE SUPPORT RACKS AT EACH FLOOR LEVEL, RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
- PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL RACEWAYS THROUGH WALLS. PROVIDE PROTECTIVE COVERINGS OVER HOT WATER PIPES OR APPLIANCES EXCEPT PIPE CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1 INCH FROM PIPE COVERS).
- CUT CONDUIT ENDS SQUARE. BEAM SMOOTH. PAINT W/ALC THREAD OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.
- HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS ARE NOT PERMITTED. DO NOT RUN CONDUIT IN PRECAST ROOF SLABS. IN 2 HIGH SLABS OR IN TERRAZZO FLOOR FINISH.
- LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS. PROVIDE 10 FT LONG IN WHICH WIRING IS NOT INSTALLED. FINISH FISH WIRE.
- SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. EJECT WALL AND SWITCH LOCATIONS IN ADVANCE OF PLUMBING AND PREFORMING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
- VERIFY LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN OVERSEEN AREAS, PROVIDE BOXES AND EQUIPMENT WARNINGS ON FIREPROOFING AND PLASTERING. WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE, CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.
- LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO CHANGE. VERIFY ALL SWITCHES ARE INSTALLED IN ACCORDANCE WITH THE PROTECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE ARCHITECT'S DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE.
- ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR, AS DIRECTED BY THE OWNER.
- ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED. TO AVOID SHUTDOWN OF EXISTING BUILDING ELECTRICAL SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN. DO NOT PROCEED WITHOUT APPROVAL FROM OWNER.

DEMOLITION LEGEND

(NOT ALL ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT)

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED & RELOCATED
- NEW
- RELOCATED EXISTING
- EXISTING TO BE REMOVED AND RETURN TO OWNER

- EXAMPLE
- (E)
 - (ER)
 - (ERR)
 - (N)
 - (RE)
 - (RRR)
- EXAMPLE
- (E)
 - (ER)
 - (ERR)
 - (N)
 - (RE)
 - (RRR)

DRAWING INDEX	
DRAWING NO.	DRAWING TITLE
E-000	ELECTRICAL COVER SHEET
E-100	ELECTRICAL DEMOLITION LIGHTING PLAN
E-101	ELECTRICAL DEMOLITION POWER PLAN
E-200	ELECTRICAL LIGHTING PLAN
E-300	ELECTRICAL POWER PLAN
E-400	ELECTRICAL FIRE ALARM PLAN
E-500	ELECTRICAL SCHEDULES AND RISER DIAGRAMS
E-600	ELECTRICAL SPECIFICATIONS SHEET 1 OF 2
E-601	ELECTRICAL SPECIFICATIONS SHEET 2 OF 2

DRAWING INFORMATION		
NO.	ISSUE FOR BID	DATE
4	ISSUED FOR PERMIT	08.11.14
1	ISSUE FOR BID	07.11.14

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Job # 182788.010
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Approved: XXX

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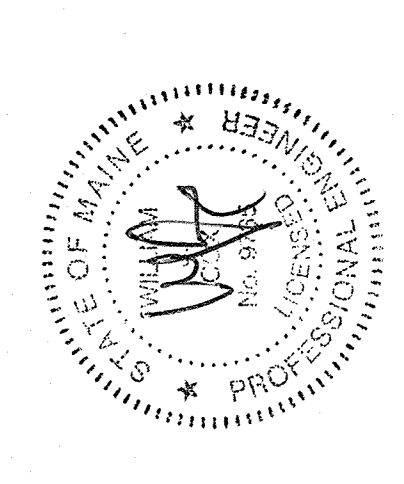
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Revisions

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