

# ELECTRICAL LEGEND

## LIGHTING

- □ CEILING LUMINAIRE: SURFACE, RECESSED
- □ WALL LUMINAIRE: SURFACE, RECESSED
- □ WALL WASHER: SURFACE, RECESSED
- □ FLUORESCENT LUMINAIRE: SURFACE, RECESSED
- □ FLUORESCENT LUMINAIRE: WALL MOUNTED
- □ FLUORESCENT LUMINAIRE: STRIP
- □ EXIT LIGHT: CEILING, WALLS (ARROWS AS SHOWN)
- □ DESIGNATES LIGHT ON EMERGENCY
- □ EMERGENCY BATTERY LIGHT
- § 2 WALL SWITCH: SINGLE POLE, 2 POLE
- § 3 WALL SWITCH: 3 WAY, 4 WAY
- § K WALL SWITCH: KEYED
- § T WALL SWITCH: TIMER
- § SW 4 WALL SWITCH: LOW VOLTAGE (LTG CONTROL PANEL) NUMBER DENOTES SWITCH SEE E2.6
- § OS WALL SWITCH: OCCUPANCY SENSOR SEE DETAILS FOR TYPE
- § OS 2 WALL SWITCH: OCCUPANCY SENSOR 2 POLE SEE DETAILS FOR TYPE
- OS SENSOR: OCCUPANCY SENSOR, CEILING, WALL SEE DETAILS FOR TYPES
- DS PHOTO DAYLIGHTING SENSOR SEE DETAILS FOR TYPES
- § D DIMMER, AS NOTED
- § FD DIMMER: FLUORESCENT
- § VC WALL SWITCH: VOLUME CONTROL
- ⊕ PHOTOELECTRIC CELL
- B DESIGNATES LUMINAIRE TYPE
- NL DESIGNATES NIGHT LIGHT CIRCUIT
- ⊕ EXISTING TO REMAIN
- ⊕ EXISTING TO BE RELOCATED
- ⊕ EXISTING TO BE REMOVED
- ⊕ ELECTRICAL SHEET NOTE LABEL DESIGNATOR

## POWER

- ⊕ RECEPTACLE: DUPLEX
- ⊕ CEILING RECESSED RECEPTACLE: DUPLEX
- ⊕ SPECIAL PURPOSE OUTLET AS NOTED
- ⊕ FLUSH IN FLOOR OUTLET: DUPLEX, TELECOMMUNICATIONS
- ⊕ SURFACE OUTLET STRIP: DIMENSIONS AS SHOWN
- ⊕ JUNCTION BOX
- ⊕ DISCONNECT SWITCH: FUSED, NON FUSED
- ⊕ MOTOR CONNECTION
- ⊕ MOTOR STARTER: MANUAL, MAGNETIC, COMBINATION
- ⊕ CONTACTOR, RELAY, SOLENOID
- ⊕ TRANSFORMER
- ⊕ CONDUIT ELL
- ⊕ PANELBOARD: SURFACE, RECESSED
- ⊕ CABINET: SURFACE, RECESSED
- ⊕ SWITCH: LOW VOLTAGE DIMMER 0-10V
- ⊕ SWITCH: LOW VOLTAGE, AS NOTED
- ⊕ PUSHBUTTON STATION

## POWER

- HA-3.5. CONDUIT HOMERUN TO PANELBOARD "HA" WITH CIRCUIT 3.5.
- LCP1-24.26. CONDUIT HOMERUN TO LIGHTING CONTROL PANEL "LCP1" WITH RELAYS
- ⊕ DENOTES NEUTRAL
- ⊕ DENOTES HOT OR SWITCH LEG
- ⊕ DENOTES ISOLATE GREEN GROUND WIRE
- ⊕ DENOTES GROUND CONNECTION
- PER LIGHTING PLANS:
  - 1/2" CONDUIT WITH 2 #12 WIRES
  - 1/2" CONDUIT WITH 3 #12 WIRES
  - 1/2" CONDUIT WITH 4 #12 WIRES
  - 3/4" CONDUIT WITH 5#12 WIRES
  - 3/4" CONDUIT WITH 6#12 WIRES
- PER POWER & EQUIPMENT PLANS:
  - 3/4" CONDUIT WITH 2#12 WIRES, 1 #12 GREEN INSULATED GROUND WIRE
  - 3/4" CONDUIT WITH 3#12 WIRES, 1 #12 GREEN INSULATED GROUND WIRE
- ⊕ DUPLEX RECEPTACLE OUTLET, 20 AMPS, 125 VOLTS, FLUSH WALL MOUNTED, +18" AFF OR AS NOTED ON DRAWINGS.
- ⊕ D DUPLEX RECEPTACLE OUTLET, 20 AMPS, 125 VOLTS, FLUSH WALL MOUNTED, +18" AFF OR AS NOTED ON DRAWINGS
- ⊕ D = DESIGNATES DEDICATED CIRCUIT
- ⊕ U = DESIGNATES USB PORTS (2 MINIMUM)
- ⊕ GFCI DUPLEX RECEPTACLE OUTLET, 20 AMPS, 125 VOLTS, FLUSH WALL MOUNTED, +18" AFF OR AS NOTED ON DRAWINGS.
- ⊕ DOUBLE DUPLEX RECEPTACLE OUTLET, 20 AMPS, 125 VOLTS, FLUSH WALL MOUNTED, +18" AFF OR AS NOTED ON DRAWINGS.

NOTE: NOT ALL SYMBOLS SHOWN ON LEGEND APPEAR ON DRAWINGS.

## SIGNAL

- ⊕ MANUAL FIRE ALARM STATION
- ⊕ DETECTOR: IONIZATION, RATE OF RISE
- ⊕ DETECTOR: HEAT, PHOTOELECTRIC
- ⊕ DUCT DETECTOR, TYPE AS NOTED
- ⊕ FIRE ALARM: HORN, HORN WITH VISUAL
- ⊕ FIRE ALARM: VISUAL STROBE ONLY
- ⊕ WALL OUTLET: TELECOMMUNICATIONS
- ⊕ WALL OUTLET: TELEPHONE ONLY
- ⊕ W WALL OUTLET: TELEPHONE ONLY @ ADA HT
- ⊕ WALL OUTLET: TELEVISION
- ⊕ WALL OUTLET: CCTV CAMERA
- ⊕ THERMOSTAT

## ABBREVIATIONS

A AMPERE (AMP)	INC INCANDESCENT
ACT ABOVE COUNTER TOP	JB JUNCTION BOX
ADA AMERICAN WITH DISABILITIES ACT	KVA KILOVOLT AMP
AFF ABOVE FINISHED FLOOR	LV LOW VOLTAGE
ARCH ARCHITECT	LTG LIGHTING
C CONDUIT	MCB MAIN CIRCUIT BREAKER
C/B CIRCUIT BREAKER	MDP MAIN DISTRIBUTION PANEL
CKT CIRCUIT	MECH MECHANICAL
CLG CEILING	MH METAL HALIDE
CU COPPER	MLO MAIN LUGS ONLY
CT CURRENT TRANSFORMER	MV MERCURY VAPOR
DW DISHWASHER	NIC NOT IN CONTRACT
EMERG EMERGENCY	PA PUBLIC ADDRESS
EMT ELECTRIC METALLIC TUBING	PE PHOTOELECTRIC CELL
EXT EXTERIOR	PNL PANEL BOARD
FA FIRE ALARM	PVC POLYVINYL CHLORIDE CONDUIT
FLA FULL LOAD AMPS	PWR POWER
FLUOR FLUORESCENT	REF REFRIGERATOR
FCIC FURNISHED BY CONTRACTOR INSTALLED BY CONTRACTOR	SDP SUB-DISTRIBUTION PANEL
FOIC FURNISHED BY OWNER INSTALLED BY CONTRACTOR	STR STARTER
FOO FURNISHED BY OWNER INSTALLED BY OWNER	SV SOLENOID VALVE
GFCI GROUND FAULT CIRCUIT INTERRUPTER	SW SWITCH
GFP GROUND FAULT PROTECTION	TBF TO BOTTOM OF FIXTURE
GRC GALVANIZED RIGID CONDUIT	TD TIME DELAY
GRD GROUND	TP TAMPERPROOF
HLO HANDLE LOCK OFFS	TTB TELEPHONE TERMINAL BOARD
HP HORSEPOWER	TTC TELEPHONE TERMINAL CABINET
HPS HIGH PRESSURE SODIUM	TV TELEVISION
HZ HERTZ	TYP TYPICAL
IH INSTA HOT WATER HEATER	UG UNDERGROUND
	V VOLTAGE
	W WATTS
	WP WEATHER PROOF
	XFMR TRANSFORMER

## GENERAL NOTE

CONSULT ALL DRAWINGS AND SPECIFICATIONS IN THIS PROJECT AND BECOME FAMILIAR WITH ALL EQUIPMENT TO BE INSTALLED. COORDINATE ALL ASPECTS OF THE CONSTRUCTION WITH OTHER TRADES ON THE JOB TO ENSURE THAT ALL WORK AND MATERIALS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL FACILITY ARE INCLUDED IN THE BID.

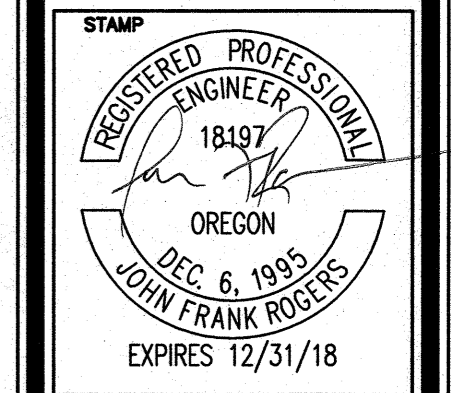
## ELECTRICAL SEISMIC CRITERIA

OCCUPANCY CLASSIFICATION	SEISMIC DESIGN CATAGORY	COMPONENT IMPORTANCE FACTOR (Ip)
II	D	1.5

## PROJECT GENERAL NOTES

- IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO VISIT THE SITE PRIOR TO BID AND FIELD VERIFY EXISTING CONDITIONS WHICH WILL AFFECT THE WORK SHOWN ON THE DRAWINGS AND IN THE SPECIFICATIONS.
- PROVIDE PATCHING IN AREAS OF WORK NOT SHOWN ON ARCHITECTURAL FINISH SCHEDULES AND DRAWINGS, COORDINATE WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS. PATCHING SHALL MATCH EXISTING, PROVIDE ALL LABOR AND MATERIAL AS REQUIRED.
- VERIFY PHASING OF PROJECT WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL PROVIDE ADDITIONAL MATERIAL AND LABOR AS REQUIRED TO ENERGIZE AREAS OF PROJECT TO REMAIN IN OPERATION DURING CONSTRUCTION AND PROVIDE ALL TEMPORARY POWER AS REQUIRED.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC, REFERENCE ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND DETAILS FOR DEVICE LOCATIONS AND MOUNTING HEIGHTS, INCLUDING BUT NOT LIMITED TO LUMINAIRES, AND FIRE ALARM DEVICES. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO COORDINATE WITH DRAWINGS, IF CONFLICTS ARISE CONTACT THE ARCHITECT AND/OR ENGINEER.
- REFERENCE ARCHITECTURAL SPECIFICATIONS AND DOOR SCHEDULES FOR ADDITIONAL ELECTRICAL CONNECTIONS REQUIRED. PROVIDE ALL MATERIAL AND LABOR AS REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION WHETHER SPECIFICALLY SHOWN ON THE ELECTRICAL DRAWINGS.
- MOUNT ELECTRICAL DEVICES PER CURRENT ADA REQUIREMENTS, COORDINATE WITH CODE OFFICIALS HAVING JURISDICTION. HEIGHTS SHALL INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:  
 LIGHTING SWITCHES - 46" AFF (CENTER LINE)  
 RECEPTACLES - 18" AFF (CENTER LINE)  
 DATA/TELEPHONE - 18" AFF (CENTER LINE)  
 WALL TELEPHONES - 48" AFF (TO TOP OF UNIT)  
 FA PULL STATIONS - 48" AFF (TO TOP OF UNIT)  
 FA HORN/STROBES - 82" AFF (TO TOP OF UNIT)  
 FA STROBES - 82" AFF (TO TOP OF UNIT)  
 ACT DENOTES 6" ABOVE HIGHEST COUNTER TOP, HEIGHT NOT TO EXCEED 46" AFF TO CENTER LINE. SEE ARCHITECTURAL ELEVATIONS OUTLETS SHALL BE MOUNTED HORIZONTAL.
- ELECTRICAL DEDICATED SPACES: NO PIPING, DUCTS, EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED WITHIN THE DEDICATED SPACE ABOVE THE ELECTRICAL EQUIPMENT.
- DUPLEX, DOUBLE DUPLEX AND GFCI RECEPTACLES PER SECTION 26 27 26 WILL BE 20 AMP ONLY.
- EQUIPMENT WIRING TERMINAL WILL BE LISTED FOR 75 DEGREE C WIRING TERMINATION.
- CONDUIT WILL BE EMT, MC CABLE MAY BE USED AS INSTALLED PER ECTION 26 05 33.12 - METAL CLAD CABLE.
- CONDUCTORS WILL BE TYPE THHN/THWN.
- LIGHTING AND MECHANICAL FIXTURES MUST BE SUPPORTED BY ADDITIONAL INDEPENDENT NO. 12 GAGE WIRES ATTACHED TO EACH CORNER OF FIXTURE.
- SEE MECHANICAL PLANS FOR ADDITIONAL ELECTRICAL CONNECTIONS.
- CONTRACTOR SHALL FURNISH AND INSTALL A GROUND WIRE IN ALL PVC CONDUIT, GROUND WIRES MAY NOT BE SHOWN, BUT SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTOR'S BASE BID AND SIZED PER CURRENT CODE.
- CONTRACTOR TO TAG/IDENTIFY ALL CONDUCTORS FOR EQUIPMENT INSTALLATION.
- FITTINGS: GALVANIZED STEEL TYPE ONLY, DIE CAST NOT PERMITTED.
- SLEEVES: PROVIDE SLEEVES FOR ALL RACEWAYS AND/OR WIRING THROUGH ALL FIRE-RATED WALLS, CEILINGS AND CONCRETE STEEL FLOORS. SEAL SLEEVES, AFTER INSTALLING RACEWAYS, WITH APPROVED FIRE-RATING MATERIAL OF EQUAL RATING AS ORIGINAL FIRE-RATING.
- ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE.
- ALL CIRCUITS SHOWN ON THE ELECTRICAL PLANS MUST BE PROVIDED WITH A SEPARATE NEUTRAL FOR MULTI-BRANCH CIRCUIT REQUIREMENTS PER CURRENT CODE.

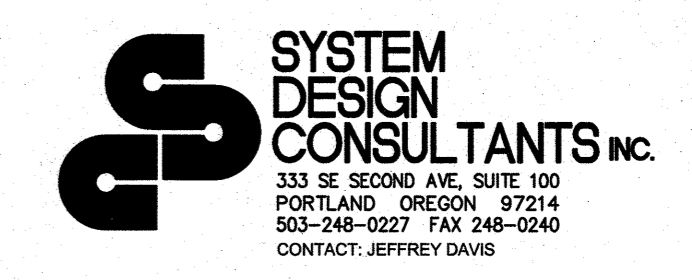
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**ELECTRICAL LEGENDS & SYMBOLS**

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