

**ELECTRICAL SYMBOL LEGEND**

REFER TO ELECTRICAL SPECIFICATIONS DIVISION 16000 FOR MORE INFORMATION.

**POWER**

- ⊕ EQUIPMENT CONNECTION
- ⊕ LIGHT SWITCH, (a) LOWER CASE LETTER DENOTES SWITCH LOOP (#) DENOTES TYPE, 3=3-WAY, 4=4-WAY, etc.
- MOTOR SENTINAL SWITCH
- ⊕ LIGHT SWITCH WITH PILOT LIGHT
- ⊕ OCCUPANCY SENSOR LIGHT SWITCH
- ⊕ MOMENTARY LOW VOLTAGE SWITCH
- ⊕ DIMMER SWITCH
- ⊕ SPEED CONTROL SWITCH
- ⊕ KEY OPERATED SWITCH
- ⊕ SPECIAL RECEPTACLE, SUBSCRIPT DENOTES NEMA CONFIGURATION
- ⊕ GROUND FAULT DUPLEX RECEPTACLE
- ⊕ SINGLE RECEPTACLE
- ⊕ DUPLEX RECEPTACLE
- ⊕ QUADRAPLEX RECEPTACLE
- ⊕ DUPLEX RECEPTACLE, ABOVE COUNTER
- ⊕ GROUND FAULT DUPLEX RECEPTACLE, W/ WEATHER PROOF BOX AND COVER
- ⊕ DUPLEX RECEPTACLE, FLOOR MOUNTED
- ⊕ JUNCTION BOX
- ⊕ THERMOSTAT
- ⊕ FLOOR BOX, W/DUPLEX RECEPTACLE AND COMBO TELE/DATA OUTLET
- ⊕ OCCUPANCY SENSOR, WALL MOUNTED
- ⊕ OCCUPANCY SENSOR, CEILING MOUNTED
- ⊕ OCCUPANCY SENSOR, POWER PACK
- ⊕ PHOTO CONTROLLED SWITCH
- ⊕ AMBIENT LIGHT SENSOR
- ⊕ NON-FUSED DISCONNECT SWITCH
- ⊕ FUSED DISCONNECT SWITCH
- ⊕ MOTOR STARTER
- ⊕ COMBINATION MOTOR STARTER/DISCONNECT
- ⊕ CIRCUIT BREAKER W/ENCLOSURE
- ⊕ AUTO TEMPERATURE CONTROL PANEL
- ⊕ MOTOR
- ⊕ TRANSFORMER
- ⊕ PANELBOARD
- ⊕ HAND DRYER
- ⊕ TIME CLOCK
- ⊕ PUSH BUTTON
- ⊕ FIROMATIC
- ⊕ WIREMOLD, REFER TO PRINT FOR DEVICES TO BE INSTALLED.
- ⊕ BUSWAY
- ⊕ CABLETRAY
- ⊕ WIREWAY
- ⊕ POWER/COMM. POLE
- ⊕ BRANCH CIRCUIT HOMERUN TO PANEBOARD
- ⊕ BRANCH CIRCUIT
- ⊕ BRANCH CIRCUIT BELOW GRADE
- ⊕ UNDERGROUND PRIMARY
- ⊕ UNDERGROUND SECONDARY
- ⊕ COMM UNDERGROUND COMMUNICATION
- ⊕ CM CABLE MANAGEMENT SYSTEM

**LIGHTING**

- ⊕ EXIT LIGHT, WALL MOUNTED, LETTER DENOTES TYPE
- ⊕ EXIT LIGHT, CEILING MOUNTED, LETTER DENOTES TYPE
- ⊕ EMERGENCY LIGHTS, BATTERY
- ⊕ EMERGENCY LIGHTS, REMOTE BATTERY
- ⊕ EMERGENCY LIGHTS, REMOTE HEAD
- ⊕ SURFACE FLUORESCENT FIXTURE, LETTER DENOTES TYPE, SMALL LETTER DENOTES SWITCH LOOP
- ⊕ RECESSED MOUNTED FLUORESCENT FIXTURE, LETTER DENOTES TYPE, SMALL LETTER DENOTES SWITCH LOOP
- ⊕ WALL MOUNTED FLUORESCENT FIXTURE, LETTER DENOTES TYPE, SMALL LETTER DENOTES SWITCH LOOP
- ⊕ STRIP LIGHT FIXTURE, LETTER DENOTES TYPE, SMALL LETTER DENOTES SWITCH LOOP
- ⊕ EMERGENCY LIGHT FIXTURE, LETTER DENOTES TYPE
- ⊕ WALL MOUNTED LIGHT FIXTURE, LETTER DENOTES TYPE, SMALL LETTER DENOTES SWITCH LOOP
- ⊕ CEILING MOUNTED/RECESSED LIGHT FIXTURE, LETTER DENOTES TYPE, SMALL LETTER DENOTES SWITCH LOOP
- ⊕ BOLLARD LIGHT FIXTURE
- ⊕ POLE LIGHT, SINGLE HEAD
- ⊕ POLE LIGHT, DOUBLE HEAD
- ⊕ FAN/LIGHT COMBINATION
- ⊕ TRACK LIGHTING W/FIXTURE HEAD
- ⊕ EMERGENCY LIGHTING SWITCHING RELAY SEE DETAIL 1, SHEET ES.2

**FIRE ALARM**

- ⊕ MANUAL FIRE PULL STATION
- ⊕ MASTER BOX
- ⊕ BELL
- ⊕ BEAM DETECTOR
- ⊕ SPEAKER
- ⊕ STROBE LIGHT/SPEAKER
- ⊕ STROBE LIGHT/HORN, SUBSCRIPT INDICATES STROBE CANDELA LEVEL
- ⊕ STROBE LIGHT, SUBSCRIPT INDICATES CANDELA LEVEL
- ⊕ HORN
- ⊕ MAGNETIC DOOR HOLDER
- ⊕ REMOTE TEST STATION
- ⊕ CHIME/STROBE LIGHT
- ⊕ SMOKE DETECTOR, NO SUBSCRIPT PHOTOELECTRIC, SUBSCRIPT I=IONIZATION
- ⊕ HEAT DETECTOR, SUBSCRIPT #=TEMPERATURE, R=RATE OF RISE
- ⊕ DUCT MOUNTED SMOKE DETECTOR
- ⊕ DUCT MOUNTED HEAT DETECTOR
- ⊕ SPRINKLER TAMPER SWITCH
- ⊕ SPRINKLER FLOW SWITCH
- ⊕ FIRE ALARM CONTROL PANEL
- ⊕ FIRE ALARM VOICE PANEL
- ⊕ FIRE ALARM ANNUNCIATOR
- ⊕ FIRE ALARM CONTROL RELAY
- ⊕ ADDRESSABLE MODULE MONITOR
- ⊕ ISOLATION MODULE

**DATA/COMM**

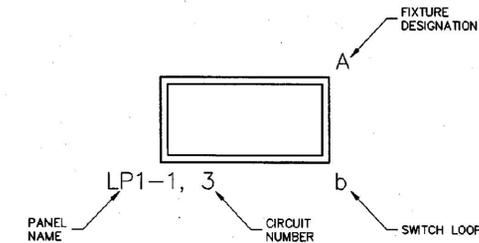
- ⊕ DATA OUTLET, SUBSCRIPT DENOTES QUANTITY
- ⊕ THERMOSTAT
- ⊕ TELEPHONE OUTLET, SUBSCRIPT DENOTES QUANTITY
- ⊕ COMBINATION DATA/TELEPHONE OUTLET SUBSCRIPT DENOTES QUANTITY
- ⊕ DATA OUTLET, FLOOR MOUNTED
- ⊕ TELEPHONE OUTLET, FLOOR MOUNTED
- ⊕ ENVIRONMENTAL ALARM POINT
- ⊕ SECURITY ELECTRICAL STRIKE
- ⊕ SECURITY KEY PAD
- ⊕ SECURITY MOTION SENSOR
- ⊕ SECURITY CAMERA
- ⊕ SECURITY CONTROL PANEL
- ⊕ CARD READER

**ONE-LINE**

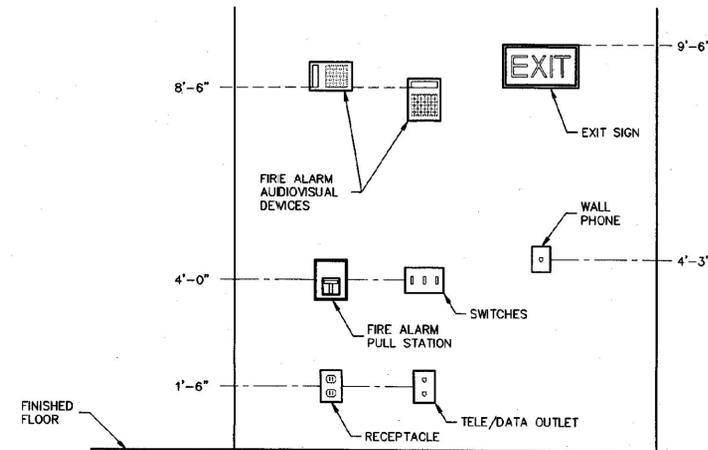
- ⊕ NON-FUSED DISCONNECT SWITCH
- ⊕ FUSED DISCONNECT SWITCH
- ⊕ COMBINATION MOTOR STARTER/DISCONNECT SWITCH
- ⊕ MOTOR STARTER
- ⊕ PANELBOARD, MAIN LUG ONLY
- ⊕ PANELBOARD, MAIN CIRCUIT BREAKER
- ⊕ AUTOMATIC TRANSFER SWITCH
- ⊕ CIRCUIT BREAKER
- ⊕ METER
- ⊕ TRANSFORMER
- ⊕ GROUND CONNECTION
- ⊕ GENERATOR
- ⊕ METER W/CONTROL TRANSFORMER
- ⊕ AMMETER W/CONTROL TRANSFORMER
- ⊕ AMMETER W/SELECTOR SWITCH
- ⊕ VOLTMETER W/SELECTOR SWITCH
- ⊕ FUSE

**ABBREVIATIONS**

- A AMPERES
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- CB CIRCUIT BREAKER
- CDF CAMPUS DISTRIBUTION FACILITY
- CLG CEILING
- C CONDUIT
- DN DOWN
- DWG DRAWING
- EAS ENVIRONMENTAL ALARM SYSTEM
- EF EXHAUST FAN
- ELEV ELEVATION
- EXIST EXISTING
- FA FIRE ALARM
- FACP FIRE ALARM CONTROL PANEL
- FOC FIBER OPTIC CABLE
- FS FLOAT SWITCH
- GEN GENERATOR
- G GROUND
- IDF INTERMEDIATE DISTRIBUTION FACILITY
- JUNCTION BOX DISTRIBUTION FACILITY
- JBOX JUNCTION BOX
- LP LIGHTING PANEL
- MDF MAIN DISTRIBUTION FACILITY
- MIN MINIMUM
- MLO MAIN LUG ONLY
- NIC NOT IN CONTRACT
- PH PHASE
- PP POWER PANEL
- P POLE
- SW SWITCH
- SEC SECONDARY
- TYP TYPICAL
- V VOLTS
- W WIRE
- WP WEATHERPROOF
- WW WIREWAY



**LIGHT FIXTURE DESIGNATION DETAIL**



**TYPICAL DEVICE MOUNTING HEIGHTS DETAIL**  
NOT TO SCALE

- NOTES:**
1. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, EXCEPT FIRE ALARM AUDIOVISUAL DEVICES AND EXIT SIGNS.
  2. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
  3. ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS INDICATED ON THIS DETAIL UNLESS NOTED OTHERWISE. COORDINATE FINAL LOCATIONS OF ALL DEVICES WITH MILLWORK AND ARCHITECTURAL DRAWINGS.



No.	DATE	REVISION

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**LEGEND AND ABBREVIATIONS**

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