



# Symbols for Electrical Construction Drawings

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## **1.0 SCOPE**

This publication describes graphic symbols used to represent electrical wiring and equipment on construction drawings. In this publication, the term “electrical” is used to include electrical, electronic, and communications systems covered by the National Electrical Code (NFPA 70). This publication also summarizes recommended drawing practices for electrical construction drawings.

### **1.1 SYMBOLS INCLUDED**

This standard is limited to North American symbols for electrical wiring and equipment.

### **1.2 SYMBOLS NOT INCLUDED**

Symbols from publications of the International Electrotechnical Commission (IEC) are not included in this standard.

Symbols for equipment and systems not covered by the National Electrical Code are not included in this standard.

## **2.0 PURPOSE OF SYMBOLS**

Symbols are a shorthand way of showing the locations, types, and sizes or ratings of electrical wiring and equipment, and the interrelationships between these items. It should be emphasized that drawings need to be supplemented with specifications in order to establish the details of the electrical systems.

### **2.1 ORGANIZATION OF THIS STANDARD**

This standard contains symbols commonly and primarily used on electrical construction drawings. Related symbols are organized into different groups, and each symbol within a group has its own unique identifying number. The group and symbol numbers are not significant except as a convenient way to identify individual symbols.

#### **SYMBOL GROUPS**

- 1.0 Raceways
  - 1.1 Raceways - Indicators
  - 1.2 Raceways - Boxes and Busways
- 2.0 Lighting Fixtures
- 3.0 Outlets and Receptacles
- 4.0 Switches and Sensors
- 5.0 Motorized & HVAC Equipment - Controls
  - 5.1 Motorized & HVAC Equipment
- 6.0 Security
- 7.0 Fire Alarm Communications & Panels
  - 7.1 Fire Alarm Indicators
  - 7.2 Fire Alarm Sensors
- 8.0 Power Distribution Equipment
- 9.0 Communications - Teledata
  - 9.1 Communications - Audio/Visual
  - 9.2 Communications - Equipment
- 10.0 Site Work
- 11.0 Schematic and One-Line Diagram Symbols
  - 11.1 One-Line Diagram Symbols - Switchboard Meters
  - 11.2 Schematic and One-Line Symbol Diagrams - Switches
- 12.0 Miscellaneous
- 13.0 Abbreviations