

- 1) Use a lens color with horizontal arcs of visibility as shown on the Plans.
- 2) For fixed span installations, you may use a combination of the following luminaires and colors:

| Location | Color | Degrees of Horizontal Arcs of Visibility |
|--------------------------|-------|--|
| Channel center | Green | 360 |
| Channel margin | Red | 180 |
| Main channel | White | 180 |
| Pier, bent | Red | 180 |
| Abutment | Red | 180 |
| Fender system | Red | 180 |
| Axis line or center line | Red | 180 |

- 3) Mount channel marker luminaires with a swivel so that you can move the arm and luminaire in a 180-degree arc to replace the lamp and maintain the unit.
- 4) Unless otherwise noted, use pivot or swivel-type channel marker luminaires with either bronze or galvanized steel retriever chain and swivel.

B. Fabrication

General Provisions 101 through 150.

C. Acceptance

General Provisions 101 through 150.

D. Materials Warranty

General Provisions 101 through 150.

Section 922—Electrical Wire and Cable

922.1 General Description

This section includes the requirements for electrical conductors, wire, and cable.

922.1.01 Related References

A. Standard Specifications

General Provisions 101 through 150.

B. Referenced Documents

National Electrical Code

922.2 Materials

922.2.01 Electrical Wire and Cable

A. Requirements

1. Conductors

Unless otherwise specified, use conductors that meet the following requirements:

- Are made of copper
- Are the size and type shown on the Plans
- Meet the requirements of the National Electrical Code
- Have the appropriate identification on the outer jacket.

NOTE: Do not use conductors not meeting this requirement or with illegible identification.

923.1

2. Wire and Cable

Use wire and cables that have the following requirements:

- a. Are new without kinks or other defects when installed
- b. Are single conductor or multi-conductor with one of the following types:
 - RHH/RHW/USE 90/75 °C
 - RHW, USE, THW, XHHW, or THWN 75 °C
 - RHH, XHHW, or THHN 90 °C
- c. Use insulation for 600 volts as indicated on the Plans.

3. Underground Cable

Use underground wire that meets the following requirements:

- Be rot and vermin proof
- Be the proper size
- Be a type recommended by the cable manufacturer for direct burial in earth

B. Fabrication

General Provisions 101 through 150.

C. Acceptance

General Provisions 101 through 150.

D. Materials Warranty

General Provisions 101 through 150.

Section 923—Electrical Conduit

923.1 General Description

This section includes the requirements for metallic, nonmetallic, and flexible electrical conduit.

923.1.01 Related References

A. Standard Specifications

General Provisions 101 through 150.

B. Referenced Documents

National Electrical Code

ANSI C-80.1

ASTM A 90

Federal Specification WW-C-540a

Federal Specification W-C-1094

American National Standards Institute (ANSI) Specification C-80.1

Underwriter's Laboratories (UL) 651

National Electrical Manufacturers Association (NEMA) Standard TC 14, Type HW

923.2 Materials

923.2.01 Metallic Conduit

A. Requirements

1. Use metallic conduit that meets the requirements of and is used according to the latest edition of the National Electrical Code.