

## PART 1 - GENERAL

## 1.01 SUMMARY

## A. Section Includes:

1. Nameplates.
2. Labels.
3. Wire markers.
4. Conduit markers.
5. Stencils.
6. Underground Warning Tape.
7. Lockout Devices.

## B. Related Sections:

1. Division 09 - Painting and Coating: Execution requirements for painting specified by this section.
2. Section 27 05 53 - Identification for Communications Systems.
3. Section 28 05 53 - Identification for Electronic Safety and Security.

## 1.02 SUBMITTALS

## A. Division 01 - Submittal Procedures: Submittal procedures.

## B. Product Data:

1. Submit manufacturer's catalog literature for each product required.
2. Submit electrical identification schedule including list of wording, symbols, letter size, color coding, tag number, location, and function.

## C. Samples:

1. Submit two (2) tags, actual size.
2. Submit two (2) labels, actual size.

## D. Manufacturer's Installation Instructions: Indicate installation instructions, special procedures, and installation.

## 1.03 CLOSEOUT SUBMITTALS

## A. Division 01 - Execution and Closeout Requirements: Requirements for submittals.

- B. Project Record Documents: Record actual locations of tagged devices; include tag numbers.

#### 1.04 QUALITY ASSURANCE

- A. Perform Work in accordance with 2009 International Building Code New Jersey Edition and 2009 Rehabilitation Subcode NJAC 5:23-6.

#### 1.05 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing Products specified in this section with minimum three (3) years documented experience.
- B. Installer: Company specializing in performing Work of this section with minimum three (3) years documented experience.

#### 1.06 DELIVERY, STORAGE AND HANDLING

- A. Division 01 - Product Requirements: Requirements for transporting, handling, storing, and protecting products.
- B. Accept identification products on site in original containers. Inspect for damage.
- C. Accept materials on site in original factory packaging, labeled with manufacturer's identification, including product density and thickness.
- D. Protect insulation from weather and construction traffic, dirt, water, chemical, and mechanical damage, by storing in original wrapping.

#### 1.07 ENVIRONMENTAL REQUIREMENTS

- A. Division 01 - Product Requirements: Environmental conditions affecting products on site.
- B. Install labels and nameplates only when ambient temperature and humidity conditions for adhesive are within range recommended by manufacturer.

#### 1.08 EXTRA MATERIALS

- A. Division 01 - Execution and Closeout Requirements: Requirements for extra materials.
- B. Furnish two (2) containers of spray-on adhesive.

### PART 2 - PRODUCTS

#### 2.01 NAMEPLATES

- A. Furnish materials in accordance with 2009 International Building Code New Jersey Edition and 2009 Rehabilitation Subcode NJAC 5:23-6.
- B. Product Description: Laminated three-layer plastic with and engraved letters.

1. Provide white letters on black contrasting background color for normal power systems.
  2. Provide white letters on red contrasting background color for emergency systems.
  3. Provide white letters on blue contrasting background color for standby power systems.
- C. Letter Size:
1. 1/4 inch (6 mm) high letters.
  2. Lettering shall designate the equipment served or the specific equipment designation as shown on the contract drawings.
- D. Minimum nameplate thickness: 1/8 inch (3 mm).
- E. Nameplates shall be 3/4 inch by 2 inch or larger in dimension, fastened with counter-sunk, oval head, chrome plated machine screws.
- F. Laminated plastic nameplates shall be provided for all electrical equipment, but not limited to, the following: Switchgear, Switchboards, Main and feeder devices in switchboards, Distribution panelboards, Branch circuit panelboards, Individual motor starters, Dry type transformers, Safety switches, Automatic transfer switches, Single pole switches used for motor disconnect switch, Control panels.

## 2.02 LABELS

- A. Furnish materials in accordance with 2009 International Building Code New Jersey Edition and 2009 Rehabilitation Subcode NJAC 5:23-6.
- B. Labels: Embossed adhesive tape, with 3/16 inch (5 mm) white letters on black background.

## 2.03 WIRE MARKERS

- A. Furnish materials in accordance with 2009 International Building Code New Jersey Edition and 2009 Rehabilitation Subcode NJAC 5:23-6.
- B. Description: Cloth tape type wire markers.
- C. Legend:
1. Power and Lighting Circuits: Branch circuit or feeder number as indicated on Drawings.
  2. Control Circuits: Control wire number as indicated on [schematic and interconnection diagrams.

## 2.04 CONDUIT AND RACEWAY MARKERS

- A. Furnish materials in accordance with 2009 International Building Code New Jersey Edition and 2009 Rehabilitation Subcode NJAC 5:23-6.

- B. Description: Nameplate fastened with straps.
- C. Color:
  - 1. Medium Voltage System: Black lettering on red background.
  - 2. 480 Volt System: Black lettering on orange background.
  - 3. 208 Volt System: Black lettering on white background.
- D. Legend:
  - 1. Medium Voltage System: HIGH VOLTAGE.
  - 2. 480 Volt System: 480 VOLTS.
  - 3. 208 Volt System: 208 VOLTS.

## 2.05 STENCILS

- A. Furnish materials in accordance with IBC-NJ.
- B. Stencils: With clean cut symbols and letters of following size:
  - 1. Up to 2 inches (50 mm) Outside Diameter of Raceway: 1/2 inch (13 mm) high letters.
  - 2. 2-1/2 to 6 inches (64 to 150 mm) Outside Diameter of Raceway: 1 inch (25 mm) high letters.
- C. Stencil Paint: As specified in Division 09, semi-gloss enamel, colors conforming to the following:
  - 1. White lettering on black background.
  - 2. White lettering on gray background.
  - 3. White lettering on red background.
  - 4. White lettering on blue background.

## 2.06 UNDERGROUND WARNING TAPE

- A. Description: 4 inch (100 mm) wide plastic tape, detectable type, colored red with suitable warning legend describing buried electrical lines.

## 2.07 LOCKOUT DEVICES

- A. Lockout Hasps:
  - 1. Anodized aluminum hasp with erasable label surface; size minimum 7-1/4 x 3 inches (184 x 75 mm).

## PART 3 - EXECUTION

### 3.01 PREPARATION

- A. Degrease and clean surfaces to receive adhesive for identification materials.
- B. Prepare surfaces in accordance with Division 09 for stencil painting.

### 3.02 INSTALLATION

- A. Install identifying devices after completion of painting.
- B. Nameplate Installation:
  - 1. Install nameplate parallel to equipment lines.
  - 2. Install nameplate for each electrical distribution and control equipment enclosure with corrosive-resistant mechanical fasteners as specified above.
  - 3. Install nameplates for each control panel and major control components located outside panel with corrosive-resistant mechanical fasteners as specified above.
  - 4. Secure nameplate to inside surface of door on recessed panelboard in finished locations.
- C. Label Installation:
  - 1. Install label parallel to equipment lines.
  - 2. Install label for identification of individual control device stations.
  - 3. Install labels for permanent adhesion and seal with clear lacquer.
- D. Wire Marker Installation:
  - 1. Install wire marker for each conductor at panelboard gutters and each load connection.
  - 2. Mark data cabling at each end. Install additional marking at accessible locations along the cable run.
  - 3. Install labels at data outlets identifying patch panel and port designation as indicated on Drawings.
- E. Stencil Installation:
  - 1. Apply stencil painting in accordance with Division 09.
- F. Underground Warning Tape Installation:
  - 1. Install underground warning tape along length of each underground conduit, raceway, or cable 6 to 8 inches (150 to 200 mm) below finished grade, directly above buried conduit, raceway, or cable.

END OF SECTION