

## SECTION 10 14 00

SIGNAGE  
04/06

## PART 1 GENERAL

## 1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

## AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI A117.1 (2003) Accessible and Usable Buildings and Facilities

## ASME INTERNATIONAL (ASME)

ASME A13.1 (2007) Scheme for the Identification of Piping Systems

## ASTM INTERNATIONAL (ASTM)

ASTM A 53/A 53M (2007) Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless

## International Fire Code (IFC)

Chapter 27 Hazardous Materials - General Provisions

## NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 704 (2007) Identification of the Hazards of Materials for Emergency Response

NFPA HAZ-01 Fire Protection Guide to Hazardous Materials

## OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

CAL-OSHA (2009) California Code of Regulations, Industrial Relations Department

## 1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Detail Drawings; G, AE

Drawings showing elevations of each type of sign, dimensions, details and methods of mounting or anchoring, shape and thickness of materials, and details of construction. A schedule showing the location, each sign type, and message shall be included.

#### SD-03 Product Data

##### Installation; G, AE

Manufacturer's descriptive data, catalogs cuts, installation and cleaning instructions.

#### 1.3 GENERAL

Signage shall be of the design, detail, sizes, types, and message content shown on the drawings and signage schedule, shall conform to the requirements specified, and shall be provided at the locations indicated. Signs shall be complete with lettering, framing as detailed, and related components for a complete installation. Signage shall be obtained from a single manufacturer with edges and corners of finished letterforms and graphics true and clean.

#### 1.4 QUALIFICATIONS

Signs shall be the standard product of a manufacturer regularly engaged in the manufacture of such products and shall essentially duplicate signs that have been in satisfactory use at least 2 years prior to bid opening.

#### 1.5 DELIVERY AND STORAGE

Materials shall be packaged to prevent damage and deterioration during shipment, handling, storage and installation. Product shall be delivered to the jobsite in manufacturer's original packaging and stored in a clean, dry area in accordance with manufacturer's instructions.

### PART 2 PRODUCTS

#### 2.1 DOOR NAMEPLATES

- a. Material: Plastic with square corners.
- b. Thickness: 1/8-inch.
- c. Height: 2 inches.
- d. Finish: Nondirectional matte.
- e. Background: Black.
- f. Letters: Engraved.
  1. Size: 1 inch high.
  2. Color: White.
  3. Style: helvetica medium upper and lower case.
  4. Message Text: As shown on Door and Hardware Schedule.

## g. Manufacturers and Products:

1. Best Manufacturing Co., Kansas City, MO; System A-101.
2. Andco Industries Corp., Greensboro, NC; 1400 series.

## 2.2 PICTORIAL SYMBOLS

## a. Material: Plastic with square corners.

## b. Conform to ANSI A117.1, Section 4.30.

## c. Manufacturers and Products:

1. Best Manufacturing Co., Kansas City, MO; System A 101.
2. Andco Industries Corp., Greensboro, NC; 1400 series.

## 2.3 SIGNS

## a. Metal Signs (Type B):

1. Material: Baked enamel finished 20 gauge (minimum) steel or 18 gauge (minimum) aluminum signs.

## 2. Manufacturers:

- (a) Seton Identification Products.
- (b) Nutheme Illustrated Safety Co.

## b. Fiberglass Signs (Type C):

1. Material: Three-ply laminated fiberglass, minimum 1/8 inch thick, with contrasting color core message layer between two clear weather-resistant surface layers.

## 2. Manufacturers:

- (a) Best Manufacturing Co.
- (b) Brady Signmark.

## c. Hazardous Material Signals (Type H):

1. Conform to NFPA 704 and NFPA HAZ-01.

2. Material: Fiberglass 1/8 inch thick.

3. Background, Letters, and Numbers: Die-cut vinyl with pressure sensitive adhesive.

## 4. Manufacturers:

- (a) Brady Signmark.
- (b) Emed Co., Inc.

## 2.4 IDENTIFICATION LABELS

## Pipe Labels:

- a. Labels:
  1. Snap-on, reversible type with lettering and directional arrows, sized for outside diameter of pipe and insulation.
  2. Provided with ties or straps for pipes of 6 inches and over diameter.
  3. Designed to firmly grip pipe so labels remain fixed in vertical pipe runs.
- b. Material: Heavy-duty vinyl or polyester, suitable for exterior use, long lasting, and resistance to moisture, grease, and oils.
- c. Letters and Arrows: Black on OSHA safety yellow background.
- d. Color Field and Letter Height: Meet ASME A13.1.
- e. Message: Piping system name as indicated on Piping Schedule.
- f. Manufacturers and Products:
  1. Brady Signmark; B 915 BradySnap-On and Strap-On Pipe Markers.
  2. Seton Identification Products; Ultra-mark Pipe Markers.
- b. Equipment Labels:
  1. Applies to equipment with assigned tag numbers, where specified.
  2. Letters: Black bold face, 3/4 inch minimum high.
  3. Background: OSHA safety yellow.
  4. Materials:
    - a. Aluminum or stainless steel with a baked-on finish suitable for use on wet, oily, exposed, abrasive, and corrosive areas.
  5. Furnish 1 inch margin with holes at each end of label, for mounting. On fiberglass labels, furnish grommets at each hole.
  6. Size:
    - a. 2 inches minimum and 3 inches maximum high, by 14 inches minimum and 18 inches maximum long.
    - b. Furnish same size base dimensions for all labels.
  7. Message: Equipment names and tag numbers as used in sections where equipment is specified.
  8. Manufacturers:

- a. Brady Signmark.
- b. Seton Identification Products.

## 2.5 ANCILLARY MATERIALS

- a. Fasteners: Stainless steel screws or bolts of appropriate sizes.
- b. Pipe Posts: 2 1/2 inch galvanized steel pipe meeting ASTM A 53/A 53M, Type S, Grade B.
- c. Chain: Type 304 stainless steel, No. 16 single jack chain or No. 2 double loop coil chain.

## PART 3 EXECUTION

### 3.1 INSTALLATION

- a. In accordance with approved manufacturer's instructions at locations shown on the detail drawings.
- b. Mount securely, plumb, and level.
- c. Space 1/2 inch from wall with concealed mechanical fasteners.

### 3.2 DOOR NAMEPLATES AND PICTORIAL SYMBOLS

- a. Attach to doors or walls adjacent to doors with removable adhesive. See Door and Hardware Schedule for locations and messages.
- b. Mount with bottom of nameplate at 5 feet 6 inches above floor.

### 3.3 SIGNS

- a. Fasten to walls or posts or hang as scheduled. Anchor in place for easy removal and reinstallation with ordinary hand tools.
- b. Information, Exit, and Safety Signs:
  - 1. Install facing traffic. Locate for high visibility with minimum restriction of working area around walkways and equipment.
  - 2. Install as scheduled.
  - 3. Removable with ordinary hand tools without leaving scars on structure or equipment.
- b. Hazardous Material Signals:
  - 1. Install where required by NFPA 704 and IFC, Chapter 27.
  - 2. Install at entrances to spaces where hazardous materials are stored, dispensed, used, or handled and on sides of stationary tanks.
  - 3. Specific Materials:

Health      Flammability      Instability      Special

Material	Hazard (Blue)	Hazard (Red)	Hazard (Yellow)	Hazard (White)
Aqueous Ammonia (19% solution)	3	0	0	
Hydrofluosilicic Acid (25% solution)	3	0	0	COR
Sodium Bisulfite (25% solution)	2	0	0	
Sodium Hydroxide (50% solution)	3	0	0	COR
Sodium Hypochlorite (0.8 % solution)	2	0	0	
TI-Anionic Co-polymer (solid)	2	0	0	
Sulfuric Acid (93% solution)	3	0	0	COR,W
Citric Acid (50% solution)	2	0	0	

### 3.4 IDENTIFICATION LABELS

#### a. Pipe Labels:

1. Locate at connections to equipment, valves, or branching fittings at wall boundaries.
2. At intervals along piping not greater than 18 feet on center with at least one label applied to each exposed horizontal and vertical run of pipe.
3. At exposed piping not normally in view, such as above suspended ceilings and in closets and cabinets.
4. Supplementary Labels: Provide to Owner those listed on Piping Schedule that do not receive arrows.
5. Application: To pipe only after painting in vicinity is complete or as approved by Engineer.
6. Installation: In accordance with manufacturer's instructions.

#### b. Equipment Labels:

1. Locate and install on equipment or concrete equipment base.
2. Anchor to equipment or base for easy removal and replacement with ordinary hand tools.

3.5 SCHEDULE

Tabulation of characteristics and mounting information for each sign on the Project is shown on the Sign Schedule on the drawings. Provide items as scheduled. Meet requirements of CAL-OSHA.

-- End of Section --