

SECTION 10 14 00

SIGNAGE

PART 1 – GENERAL

1.1 DESCRIPTION

- A. Scope:
 - 1. CONTRACTOR shall provide all labor, materials, tools, equipment, and incidentals as shown, specified, and required to furnish and install signage.
 - 2. Extent of signage is shown and specified.
 - 3. Types of products required include the following:
 - a. Health, safety and warning
 - c. Stainless steel fasteners, supports, very-high-bond high-performance mounting tape, primers and other accessories.
- B. Coordination:
 - 1. Coordinate adhesives and fasteners with mounting surfaces. Review other Sections to ensure compatibility of signage mounting accessories with various surfaces on which signage will be installed.
 - 2. Review installation procedures under this and other Sections and coordinate installation of items to be installed with or before signage Work.
- C. Related Sections:
 - 1. Section 03 05 00 - Concrete.
 - 2. Section 09 91 00 – Painting and Protective Coatings.
 - 3. Division 26.

1.2 REFERENCES

- A. Standards referenced in this Section are:
 - 1. AA DSA-45, Designation System for Aluminum Finishes.
 - 2. ANSI Z535.1, Marking Physical Hazards Safety Color Code.
 - 3. ANSI Z535.2, Environmental and Facility Safety Signs.
 - 4. ANSI Z535.3, Criteria for Safety Symbols.
 - 5. NFPA 704, System for the Identification of the Hazards of Materials for Emergency Response.

1.3 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Signage Manufacturers:
 - a. Engage firms specializing in producing types of products specified, in compliance with the Contract Documents, with documented record of successful in-service performance, and that possess sufficient production capacity to avoid delaying the Work.
 - b. Submit to CFPUA name and experience record of manufacturers.

- B. Component Supply and Compatibility:
 - 1. Obtain each separate type of signage from a single Supplier and from a single manufacturer.
- C. Regulatory Requirements: Comply with applicable requirements of the following:
 - 1. OSHA, 29 CFR Part 1910.144, Safety Color Code for Marking Physical Hazards.
 - 2. OSHA, 29 CFR Part 1910. 145, Specification for Accident Prevention Signs and Tags.

1.4 SUBMITTALS

- A. Action Submittals: Submit the following:
 - 1. Shop Drawings:
 - a. Schedule of all signage required for the Work, indicating signage type location, and other information to demonstrate compliance with the Contract Documents.
 - b. Sign plan indicating sign locations.
 - c. Fabrication and erection information for each type of signage
 - d. Mounting and Installation Data:
 - 1) Drawings of and information on anchorages and accessory items.
 - 2) Submit location template drawings for items supported or anchored to permanent construction.
 - 2. Product Data:
 - a. Copies of manufacturer's technical data, including catalog information and specifications, for each product specified.
 - 3. Samples:
 - a. Each color and finish of exposed materials and accessories required for signage.
 - b. Sample Signage:
 - 1) Full-size Sample of each type of permanent room and space identification sign, and informational and directional sign incorporating all features specified.
 - 2) Full-sized Sample right-to-know signs, labels and tags.
- B. Informational Submittals: Submit the following:
 - 1. Manufacturer's Instructions:
 - a. Templates for anchorages to be installed in concrete or masonry.
 - b. Manufacturer's instructions and recommendations for support and foundations of signs installed outdoors.

PART 2 – PRODUCTS

2.1 SYSTEM PERFORMANCE

- A. General:
 - 1. Details shown or indicated for signage, such as alpha-numeric and text type representation, letter spacing, designs of borders, and other graphic features,

are generic and intended only to establish text, general positions, and symbols.

2. Colors shall be brilliant, distinctive shades, matching the safety colors specified in ANSI Z535.1 and OSHA 1910.144.
3. Accident prevention signs and tags shall comply with OSHA 1910.145.
4. Health, safety, and warning signs shall comply with ANSI Z535.1, ANSI Z535.2, ANSI Z535.3, OSHA 1910.144, and 1910.145, unless otherwise shown or indicated. Colors shall be as indicated in Table 1 of ANSI Z535.1. In addition to text, safety symbol pictograms shall be incorporated into each sign.

2.4 PANEL SIGNS – HEALTH, SAFETY AND WARNING

- A. Product Description: Provide rigid fiberglass reinforced plastic signs with fade-resistant embedded graphics.
- B. Products and Manufacturers: Provide one of the following:
 1. Graphic Blast Word and Picture Series, by Best Sign Systems, Inc.
 2. Blast Etched Fiberglass Signs, by Visigraph Corporation.
 3. Or equal.
- C. General:
 1. Size and Thickness: 0.125-inch thick; 10 inches by 14 inches, unless otherwise shown or indicated.
 2. Exposure: As recommended by sign manufacturer for both indoor and outdoor use and with an upper service temperature limit of 190degrees F. Average durability for outdoor use shall be 15 years.
- D. Safety Instruction Signs: Standard color of sign background shall be white; panel shall be green with white letters and numbers. Letters and numbers used against white background shall be black.
- E. Caution Signs: Standard color of sign background shall be yellow; panel shall be black with yellow letters and numbers.
- F. Danger Signs: Standard color of sign background shall be white; panel shall be black with red insert with white letters and numbers. Letters and numbers used against white background shall be black.
- G. Warning Signs: Standard color of sign background shall be orange; panel shall be black with orange insert with black letters and numbers. Letters and numbers used against orange background shall be black.
- H. No Smoking Signs: Standard color of sign background shall be white. Letters and numbers used against white background shall be red.
- I. Biohazard Signs: Standard color of sign background shall be white; panel shall be black with white letters. Sign shall include red international biohazard pictogram on white background.

L. Auxiliary Products:

1. Mounting Brackets: Provide sign manufacturer's standard mounting brackets for installing projected or double-sided signs.

2.16 SOURCE QUALITY CONTROL

A. Fabrication Tolerances:

1. Produce smooth, even, level sign panel surfaces, constructed to remain flat under installed conditions within tolerance of plus or minus 1/16-inch measured diagonally across each sign.

PART 3 – EXECUTION

3.1 INSPECTION

- A. Examine substrates and conditions under which signage will be installed and notify ENGINEER in writing of conditions detrimental to the proper and timely completion of the Work. Do not proceed with the Work until unsatisfactory conditions are corrected.

3.2 INSTALLATION

A. General:

1. Location:

- a. Install signage and appurtenances at the locations shown or indicated. When locations are not shown or indicated, install signage at locations directed by CFPUA.
- c. Lightly mark and locate position of each sign. Obtain CFPUA's acceptance of marked locations before mounting.

2. Installation – General:

- a. Install signs level, plumb, and at proper height.
- b. Signage shall be securely mounted with concealed, very-high-bond acrylic foam tape, specified adhesives, or mechanical fasteners where specified. Attach signs to surfaces in accordance with sign manufacturer's instructions, unless otherwise shown or indicated.
- c. Provide very-high-bond acrylic foam tape on back of signage using a full perimeter of specified tape. Leave no gaps in tape perimeter at back of signage; peel off second release liner and press onto surfaces.

3. Repair or replace damaged units.

3.3 PROTECTION AND CLEANING

- A. After installation, clean soiled signage surfaces in accordance with manufacturer's written instructions.

- B. Protect signage from damage until completion of the Work.

END OF SECTION