

## SECTION 101400 - SIGNAGE

## PART 1 - GENERAL

## 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and supplementary Conditions and Division-1 Specification Sections, apply to this Section.

## 1.2 SUMMARY

- A. This Section includes the following types of signs:
  - 1. Interior ADA Room Signs.
  - 2. Symbols of Accessibility.
  - 3. Special Signs.
  - 4. Interior Building Plan Directory Signs.
- B. Related Sections: The following sections contain requirements that relate to this section:
  - 1. Division 1 Section "Temporary Facilities and Controls" for temporary project identification signs.

## 1.3 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of the Contract and Division 1 Specification Sections.
- B. Product Data: Include manufacturer's construction details relative to materials, dimensions of individual components, profiles, and finishes for each type of sign required.
- C. Shop Drawings: Provide shop drawings for fabrication and erection of signs. Include plans, elevations, and large-scale sections of typical members and other components. Show anchors, grounds, reinforcement, accessories, layout, and installation details.
  - 1. Provide message list for each sign required, including large-scale details of wording and layout of lettering.
  - 2. For signs supported by or anchored to permanent construction, provide setting drawings, templates, and directions for installation of anchor bolts and other anchors to be installed as a unit of Work in other Sections.
  - 3. Furnish full-size spacing templates for individually mounted dimensional letters and numbers.
- D. Samples: Provide the following samples of each sign component for initial selection of color, pattern and surface texture as required and for verification of compliance with requirements indicated.
  - 1. Samples for initial selection of color, pattern, and texture:
    - a. Cast Acrylic Sheet and Plastic Laminate: Manufacturer's color charts consisting of actual sections of material including the full range of colors available for each material required.

1. Transparent Sheet: Where sheet material is indicated as "clear" provide colorless sheet in matte finish, with light transmittance of 92 percent, when tested in accordance with the requirements of ASTM D 1003.
  - b. Aluminum: Samples of each finish type and color, on 6-inch-long sections of extrusions and not less than 4-inch squares of sheet or plate, showing the full range of colors available.
2. Samples for verification of color, pattern, and texture selected, and compliance with requirements indicated:
  - a. Cast Acrylic Sheet and Plastic Laminate: Provide a sample of each type of sign. Include a sign for each color, texture, and pattern required. On each panel include a representative sample of the graphic image process required, showing graphic style, and colors and finishes of letters, numbers, and other graphic devices.
  - b. Aluminum: Samples of each finish type and color, on 6-inch-long sections of extrusions and not less than 4-inch squares of sheet or plate. Where finishes involve normal color and texture variations include sample sets showing the full range of variations expected.
  - c. Dimensional Letters: Provide one full-size representative sample of each dimensional letter type required, showing letter style, color, and material finish and method of attachment.
- E. Certification: Provide written certification from the sign manufacturer that signage meets ADA requirements.

#### 1.4 QUALITY ASSURANCE

- A. Single-Source Responsibility: For each separate type of sign required, obtain signs from one source from a single manufacturer.
- B. Design Criteria: The drawings and specifications indicate size, profiles, and dimensional requirements of signs and are based on the specific type and model indicated. Signs by other manufacturers may be considered provided that deviations in dimensions and profiles are minor and do not change the design concept as judged by the Architect. The burden of proof of equality is on the proposer.
- C. Signage must comply with "Americans with Disabilities" (ADA) standards.

#### 1.5 PROJECT CONDITIONS

- A. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication to ensure proper fitting. Show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay.

## PART 2 – PRODUCTS

## 2.1 MATERIALS

- A. Polycarbonate Sheet: Of thickness indicated, manufactured by extrusion process, coated on both surfaces with abrasion-resistant coating:
1. Impact Resistance: 16 ft-lbf/in. (854 J/m) per ASTM D 256, Method A.
  2. Tensile Strength: 9000 lbf/sq. in. (62 MPa) per ASTM D 638.
  3. Flexural Modulus of Elasticity: 340,000 lbf/sq. in. (2345 MPa) per ASTM D 790.
  4. Heat Deflection: 265 deg F (129 deg C) at 264 lbf/sq. in. (1.82 MPa) per ASTM D 648.
  5. Abrasion Resistance: 1.5 percent maximum haze increase for 100 revolutions of a Taber abraser with a load of 500 g per ASTM D 1044.

## 2.2 PANEL SIGNS

- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. ACE Sign Systems, Inc.
  2. Advance Corporation; Braille-Tac Division.
  3. Allen Industries Architectural Signage
  4. Allenite Signs; Allen Marking Products, Inc.
  5. APCO Graphics, Inc.
  6. ASI-Modulex, Inc.
  7. Best Sign Systems Inc.
  8. Bunting Graphics, Inc.
  9. Fossil Industries, Inc.
  10. Gemini Incorporated.
  11. Grimco, Inc.
  12. Innerface Sign Systems, Inc.
  13. InPro Corporation
  14. Matthews International Corporation; Bronze Division.
  15. Mills Manufacturing Company.
  16. Mohawk Sign Systems.
  17. Nelson-Harkins Industries.
  18. Seton Identification Products.
  19. Signature Signs, Incorporated.
  20. Supersine Company (The)
- C. Interior Panel Signs: Provide smooth sign panel surfaces constructed to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch (1.5 mm) measured diagonally from corner to corner, complying with the following requirements:
1. Laminated, Polycarbonate-Faced Sheet: 0.060-inch- (1.52-mm-) thick, polycarbonate face sheet laminated to each side of 0.197-inch- (5.0-mm) thick phenolic backing.
  2. Edge Condition: Beveled.
  3. Corner Condition: Square.
  4. Mounting: Unframed.
    - a. Wall mounted with concealed anchors.
    - b. Manufacturer's standard anchors for substrates encountered.
  5. Color: As selected by Contracting Officer from manufacturer's full range.

6. Tactile Characters: Characters and Grade 2 Braille raised 1/32 inch (0.8 mm) above surface with contrasting colors.
- D. Exterior Panel Signs: Provide smooth sign panel surfaces constructed to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch (1.5 mm) measured diagonally from corner to corner, complying with the following requirements:
1. Fiberglass Sheet: 0.125-inch- (3.18-mm-) thick sheet.
  2. Edge Condition: Square cut.
  3. Corner Condition: Rounded.
  4. Mounting: Unframed.
    - a. Post mounted.
    - b. Manufacturer's standard noncorroding fasteners.
  5. Color: As indicated, or required by sign type.
- E. Tactile and Braille Sign: Manufacturer's standard process for producing text and symbols complying with ADA-ABA Accessibility Guidelines and with ICC/ANSI A117.1. Text shall be accompanied by Grade 2 Braille. Produce precisely formed characters with square-cut edges free from burrs and cut marks; Braille dots with domed or rounded shape.
1. Panel Material: Polycarbonate.
  2. Raised-Copy Thickness: Not less than 1/32 inch (0.8 mm).
- F. Applied Vinyl: Die-cut characters from vinyl film of nominal thickness of 3 mils (0.076 mm) with pressure-sensitive adhesive backing. Apply copy to exposed face of panel sign.
- G. Panel Sign Schedule:
1. Sign Type, Room Name:
    - a. Sign Size: As indicated.
    - b. Message Panel Material: As indicated.
    - c. Message Panel Finish/Color: Selected by Contracting Officer.
    - d. Background Finish/Color: Selected by Contracting Officer.
    - e. Character Size: As indicated.
    - f. Character Finish/Color: Selected by Contracting Officer.
    - g. Text/Message: As indicated.
    - h. Location: As indicated.
    - i. Room: As indicated.
  2. Sign Type, ADA Accessible Toilet Rooms:
    - a. Sign Size: As indicated.
    - b. Message Panel Material: As indicated.
    - c. Message Panel Finish/Color: Selected by Contracting Officer.
    - d. Background Finish/Color: Selected by Contracting Officer.
    - e. Character Size: As indicated.
    - f. Character Finish/Color: Selected by Contracting Officer.
    - g. Text/Message: As indicated.
    - h. Location: Public Toilet Rooms.
    - i. Room: MEN, WOMEN.

**PART 3 - EXECUTION**

**3.1 INSTALLATION**

- A. General: Locate sign units and accessories where indicated, using mounting methods of the type described and in compliance with the manufacturer's instructions.
  - 1. Install signs level, plumb, and at the height indicated, with sign surfaces free from distortion or other defects in appearance.
  - 2. Attach signs with concealed theft-proof fasteners.
  
- B. Installation of Room Signs:
  - 1. Mount on wall or glass sidelight on the latch side of single doors and on the right side when facing double doors from corridor side, at heights indicated on the Drawings, unless specifically approved otherwise.

**3.2 CLEANING AND PROTECTION**

- A. At completion of the installation, clean soiled sign surfaces in accordance with the manufacturer's instructions. Repair or replace damaged signs as directed by the Architect. Protect units from damage until acceptance by Owner.

**END OF SECTION 101400**