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.
5. Interior Cast Letters.
6. Exterior Cast Letters on building.
7. Miscellaneous signage.

B. Related Sections: The following sections contain requirements that relate to this section:

1. Division 1 "Temporary Facilities and Controls" for temporary project identification signs.
2. Division 10 "Site LED Signs" for messaging signs located elsewhere on site.

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 MANUFACTURERS

A. Available Manufacturers" Subject to compliance with requirements, manufacturers offering products that may be incorporated in the work include, but are not limited to, the following:

1. Andco Industries Corp.
2. A.C. Davenport & Son Co.
3. A.S.I. Sign Systems
4. Inter Sign National, Inc.
5. Spanjer Brothers, Inc.
6. The Supersine Company.
7. Southwell Company.
8. Leeds.

B. General Requirements

1. All letters shall be Helvetica Medium, upper case, unless otherwise noted.
2. Letters shall be centered on signs unless otherwise indicated.
3. Panel backgrounds shall be colored from manufacturer's standards with a matte finish.

2.2 MATERIALS

A. Cast Acrylic Sheet: Provide cast (not extruded or continuous cast) methyl methacrylate monomer plastic sheet, in sizes and thicknesses indicated, with a minimum flexural strength of 16,000 psi when tested in accordance with ASTM D 790, a minimum allowable continuous service temperature of 176 deg F (80 deg C), and of the following general types:

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. Plastic Laminate: Provide high-pressure plastic laminate engraving stock with face and core plies in contrasting colors, in finishes and color combinations indicated or, if not indicated, as selected from the manufacturer's standards.

C. Aluminum Castings: Provide aluminum castings of alloy and temper recommended by the aluminum producer and finisher for the casting process used and for the use and finish indicated.

D. Fasteners: Use concealed fasteners fabricated from metals that are not corrosive to the sign material and mounting surface.

E. Anchors and Inserts: Use nonferrous metal or hot-dipped galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion resistance. Use toothed steel of lead expansion bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.

F. Unexposed Solid Wood Frame: Unexposed solid wood may be of any suitable hardwood species, unselect as to grain or color, but free of defects affecting structural soundness. Unexposed wood must be straight, free of surface blemishes, and dimensionally stable.

2.3 ROOM SIGNS

A. Sign Size: Minimum 6″ x 6″.

B. Type: 1/32″ raised letter and numerals on plastic laminate.

C. Letter Size: 5/8" high.

D. Numeral Size: 1¼" high.

E. Locations: Provide new signage identifying each room listed on Finish Schedule at each door, excluding exterior and vestibule doors. Mount at 60" AFF on wall at latch side of door, in accordance with ADA guidelines.

F. Provide type 2 braille plate with room name and number as part of all room signs.

G. Comply with all ADA requirements.

H. Wording on Sign: Text will approximate that which is shown on the finish schedule. Owner will review the shop drawing submittal and advise the Contractor of any revisions.

I. Provide rear blanks at all glass mounted locations.

2.4 SYMBOL OF ACCESSIBILITY

A. Provide 6″x 6″ medium blue plastic laminate square with 6″ international handicapped insignia engraved in white

at all restrooms which are equipped for handicapped use. Mount on wall adjacent to opening as directed by Architect. Top of sign shall be 42″ above finished floor.

2.5 SPECIAL SIGNS

A. Sign Size: Minimum 6"x 6".

B. Type: 1/32″ raised letter and numerals on plastic laminate.

C. Letter Size: 5/8" high.

D. Numeral Size: 1¼" high.

E. Wording and Locations:

1. "ENTER": One at each entrance (total of two) to Serving 622, in MS Student Dining 215.

2. "EXIT": One at each exit (total of two) from Serving 622, in MS Student Dining 215.

3. "ENTER": One at each entrance (total of two) to Serving 620, in HS Student Dining 619.

4. "EXIT": One at each exit (total of two) from Serving 620, in HS Student Dining 619.

5. "AREA OF REFUGE" with international handicapped insignia: One each at doors 300D/3 and 700/6.

6. "AREA OF REFUGE" with left directional arrow: One each at doors 300/5, 700C/3 and 700E/3.

7. "AREA OF REFUGE" with right directional arrow: One at door 300F/3.

F. Provide type 2 braille plate with wording.

G. Comply with all ADA requirements.

H. Mount at 60" AFF in accordance with ADA guidelines.

2.7 INTERIOR AND EXTERIOR CAST LETTERS

A. Type: Cast aluminum letters. Provide cast metal letters cast aluminum with baked enamel finish. Furnish cast units with smooth flat faces, sharp corners, true lines and accurate profiles. Provide units free of pits, scale, sand holes, or other defects. Protect exposed surfaces with two coats of clear, non-yellowing lacquer. Provide five-year finish guarantee.

B. Size: As indicated in Optima font.

C. Location: As shown on drawings on building exterior and in Main Street 100 at each administration office entrance, at Media Center entrance, and at Auditorium entrance.

D. Mounting: Provide concealed anchors which project letters ½″ from wall; install in accordance with manufacturer's recommendations.

E. Representative Manufacturer: Andco Industries Corp.

F. Color: White.

G. Wording and numbering: As designated on elevations.

2.8 MISCELLANEOUS SIGNS

A. Provide as part of Base Bid Work of this section a $3,000.00 allowance for additional signage as directed by Owner/Architect.

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 with top of sign four feet above floor on the latch side of single doors and on the right side when facing double doors from corridor side, unless specifically shown or 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