PART 1 - GENERAL

1.1 WORK OF THIS SECTION
A. Specialty signs.

1.2 QUALITY ASSURANCE
A. Uniformity of Manufacturer: for each sign form and graphic image process indicated, furnish products of a single manufacturer.

1.3 SUBMITTALS
A. Prior to commencement of work, provide shop drawings of all fabricated items.
1. Show dimensions, details of construction, materials, technical data, and installation instructions for each type of sign required.
2. Show anchorages and accessory items and provide samples.
3. Furnish location template drawings for items supported or anchored to permanent construction.
B. Submit samples and color match samples for each sign type.
C. Samples: fabricated with colors and finishes as indicated by Designer.
1. Submit prototype samples and color match samples.
2. For all sign types, submit complete alphabet numerals, punctuation, materials, and graphics for review prior to start of fabrication. If more than one supplier's cut will be used, submit each cut for review.
D. Submit signage schedule with copy and spelling for Owner/ Designer review.
E. Submit three sets of Shop Drawing prints.
F. Submit templates or samples showing letter or word spacing for each letter, for review and approval.
G. Submit three sets of Signed & Sealed Structural Engineering drawings for all free-standing exterior signs included in the project.

PART 2 - PRODUCTS

2.1 MANUFACTURERS
A. Materials, General:
1. Aluminum Sheet: alloy and temper recommended by aluminum producer or finisher for type of use and finish indicated, and not less than the strength and durability properties specified in ASTM B-209 for 5U05-H15.
2. Aluminum Extrusions: alloy and temper recommended by aluminum producer or finisher for type of use and finish indicated, and not less than the strength and durability properties specified in ASTM B-221 for 6063-T5.
3. Aluminum Castings: Alloy and temper recommended by aluminum producer or finisher for casting process used and for use and finish indicated.
4. Stainless Steel Plate, Sheet and Strip: ASTM A-167, AISI Type 302.
5. Vinyl Film: Opaque non-reflective vinyl film, 0.0035" minimum thickness, with pressure sensitive adhesive backing, suitable for exterior as well as interior applications.
6. Fasteners: use concealed fasteners, unless otherwise indicated, which are fabricated from metals, which are non-corrosive to either sign materials or mounting surface.
7. Anchors and Inserts: use non-ferrous metal or hot-dipped galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion resistance. Use toothed steel or lead expansion bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.

2.2 FABRICATION OF PANEL SIGNS

A. General:

1. Fabricate panel signs to comply with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes and details of construction.
2. Produce smooth, even, level sign panel surfaces, constructed to remain flat under installed conditions within a tolerance of plus or minus 1/16” measured diagonally from corner to corner.
3. Unframed Panel Signs: Fabricate unframed panel signs with edges mechanically and smoothly finished to conform with following requirements:
   a. Edge Condition: square cut
   b. Corner Condition: square
4. Framed Panel Signs: fabricate frames to profile indicated; comply with requirements below for materials and corner conditions.
   a. Material: aluminum, extruded or cast
   b. Corner Condition: square
5. Lubricate brackets and fittings for bracket-mounted signs from extruded aluminum to suit sign panel construction and mounting conditions indicated. Factory paint brackets in color matching background color of sign panel, unless otherwise indicated.
6. Graphic Content and Style: provide sign copy to comply with requirements indicated for sizes, styles, spacings, content, positions, materials, finishes and colors or letters, numbers, symbols and other graphic devices.
7. Applied Copy: die-cut copy characters from vinyl film with pressure-sensitive adhesive backing; apply copy to exposed face of sign panel.

2.4 FINISHES

A. General:

1. Colors and Surface Textures: For exposed sign materials which require selection of materials with integral or applied colors, surface textures or other characteristics related to appearance, provide color matches indicated, or if not otherwise indicated, as selected by Designer from manufacturer’s standards.
2. Metal Finishes: Comply with NAAMM “Metal Finishes Manual” for finish designations and application recommendations.
3. Aluminum Finishes:
   a. Class II Clear Anodized Fine Satin Finish: AS-M31C21A31 (fine satin mechanical finish; chemical etch, fine matte; 0.4 mil minimum thick anodic coating).

PART 3 - EXECUTION

3.1 INSTALLATION

A. General:

1. Locate sign units and accessories where shown or scheduled, using mounting methods of type described and in compliance with manufacturer's instructions, unless otherwise indicated.

B. Install sign units level, plumb and at height indicated, with sign surfaces free from distortion or other defects of appearance.

C Submit installation schedules to Designer. Designer will review with Owner and edit the schedule, as needed.

3.2 CLEANING AND PROTECTION

A. At completion of installation, clean soiled sign surfaces in accordance with manufacturer's instructions. Protect units from damage until acceptance by Owner.

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END OF SECTION 10440