SECTION 10400
IDENTIFYING DEVICES

PART 1 - GENERAL

1.1 SUMMARY:
A. Section Includes:
   1. Identifying devices including:
      a. Interior Signs
      b. Exterior Signs.

B. Related Sections:
   1. Section 16510 - Lighting Fixtures: Illuminated exit signs.

1.2 SYSTEM DESCRIPTION:

A. Interior Signs: Provide interior room signs to accomplish the following functions:
   1. Room number signs.
   2. Two nameplate holders per room.
   3. Directional signs.
   4. Accessibility signage.
   5. Code required signage.
   6. Maximum occupancy signage for classrooms and assembly areas.
   8. Building directory, where applicable.

B. Exterior Signs: Provide exterior signs to accomplish the following functions:
   1. Identification Signs
      a. Building Entrance Signs
      b. Building Identification Signs
      c. Directional Signs
      d. Directory Signs
      e. Special Signs

1.3 SUBMITTALS:
A. Product Data:

1. Submit manufacturer's technical data and installation instructions for each type of sign required.

B. Samples:

1. Submit samples of each sign form and material showing finishes, colors, surface textures and qualities of manufacture and design of each sign component including graphics.
   
a. Submit full-size sample unit. Acceptable units may be installed as part of the work.

C. Shop Drawings:

1. Submit shop drawings for fabrication and erection of identifying devices. Include plans, elevations, and large scale details of sign wording and lettering layout. Show anchorages and accessory items. Furnish location template drawings for items supported or anchored to permanent construction.
   
a. Furnish full-size spacing templates for individual building-mounted letters and numbers.

1.4 QUALITY ASSURANCE:

A. Manufacturer:

1. For each sign form and graphic image process indicated furnish products of a single manufacturer with a minimum of 3 years successful experience in the types of signs required.

B. Standards:

1. Provide life safety signage in compliance with applicable building codes and ADA requirements.

2. Fabricate signs to meet ADA Accessibility Guidelines (ADAAG) and the Uniform Federal Accessibility Standards (UFAS) as required.

3. Fabricate signs to comply with the University of Colorado at Boulder Campus Facilities Identification System guidelines.

4. Grade II Domed Braille utilizing the Raster™ Method of Braille or equivalent. Braille location and specifications shall comply with all latest ADA, ADAAG and ANSI regulations.

PART 2 - PRODUCTS
2.1 MATERIALS:

A. Panel Sign Materials:
   1. Provide the following materials as manufactured by New Hermes or approved substitute.
      a. General Signage: Gravoply / Rowmark or approved substitute.
      b. Raised Lettering and Braille Signage: Gravo-Tac 2-ply system.

B. Vinyl Film:
   1. Opaque non-reflective vinyl film, 0.0035" minimum thickness, with pressure sensitive adhesive backing, suitable for exterior as well as interior applications

C. Other Materials:
   1. Other approved materials for specific designated uses shall be approved by the Campus Architect.

D. Accessories:
   1. Mounting Tape: Heavy Duty 1" x 1" Mounting Squares by 3M or approved substitute.
   2. Fasteners: Use concealed fasteners wherever possible which are fabricated from metals which are non-corrosive to either sign materials or mounting surfaces.
   3. 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.
   4. Fabricate brackets and fittings for bracket-mounted signs from extruded aluminum to suit sign panel construction and mounting conditions.

2.2 FABRICATION OF PANEL SIGNS:

A. General:
   1. Fabricate all signs to comply with requirements of referenced standards, as indicated below, or as specifically approved.
   2. Produce smooth, even, level sign panel surfaces, constructed to remain flat under installed conditions within a tolerance of ±1/16" measured diagonally from corner to corner.
B. Interior Room Signs:

1. Fabricate white plastic room signs with edges mechanically and smoothly finished with square cut edges and 3/8” radiused corners. Sign face shall be edged with a recessed 1/8” border.
   a. Size: 6” x 6” for room number signs and directional signs.
   b. Letters shall be black in color and in the Helvetica Medium letter style raised from the background not less than 0.03125 as required by ADAAG.
   c. Provide 1.125” letter height for room numbers, centered 2” from the top of the letter to the top of the sign. Center a ½” wide black braille lettering panel 3/8” from the bottom of the sign.
   d. Provide raised copy and recessed braille lettering in copy thickness not less than 0.03125” thick as required by ADAAG.

2. Fabricate black anodized aluminum sleeve inserts for occupant use.
   a. Size 1” X 6” open-ended horizontal sleeve.
   b. Provide a blank white 90 pound card stock insert covered with a clear acrylic matte strip 0.625” (1/16”) thick.
   c. Where required for informational signage, provide 6”X 6” black anodized insert sleeve open at the top.
   d. Provide a blank white 90 pound card stock insert covered with a clear acrylic matte strip 0.625” (1/16”) thick for 6”X 6” insert sleeve.

3. Fabricate white plastic directional signs with edges mechanically and smoothly finished with square cut edges and 3/8” radiused corners. Sign face shall be edged with a recessed 1/8” black border.
   a. Size: 6” X 6” surface-mounted signs that may be arranged one over the other, or side by side, as necessary to carry the message.
   b. Provide upper and lower case black vinyl die-cut letters in the Helvetica Medium letter style.
   c. Provide black vinyl die-cut left, right, up, or down arrows as required.

C. Provide symbol for handicapped access on signage designating those areas accessible for the handicapped in conformance with Society for Environmental Graphic Designers (SEGD) recommendations for accessible signage, most recent edition.

2.3 METAL LETTERS AND NUMBERS:

A. Metal Letters and numbers mounted on vertical surfaces are not recommended and shall not be used without special permission from the Campus Architect.

2.4 FACTORY FINISHES:

A. Colors and Surface Textures: Provide colors as selected by Architect and user which are
acceptable to Campus Architect.

B. Metal Finishes: Comply with NAAMM "Metal Finished Manual" for finish designations and application recommendations.

C. Aluminum Finishes:

1. Class II Clear Anodized Satin Finish: AA-M31C21A31 (fine satin mechanical finish; chemical etch, fine matte; 0.4 mil minimum thick anodic coating).

2.5 LIFE SAFETY SIGNAGE:

A. Provide surface-mounted signs as specified above and as required by applicable Building Code and Fire Department regulations for life safety which may include stair and exit-way doors, areas of refuge, elevator lobbies, elevators, fire command center and standpipe valve cabinets.

1. Provide signs, 12" x 12", on stairwell side of each stairwell door at each floor for buildings four stories or more in accordance with the provisions of the 1997 Uniform Building Code.

2. Emergency exit signs to be 12” x 18” x 1/8” Black acrylic mounting panel with 12” x 18” x 1/8” clear acrylic cover screwed to mounting panel to except 11” x 18” exit map. Sign location and orientation to be cleared through UCB Fire Marshal.

PART 3 - EXECUTION

3.1 INSTALLATION:

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

B. Interior Signs:

1. Surface-Mounted Units: Attach signs to wall surfaces using mounting tape squares in each corner of the sign except at each top corner and one centered at bottom of sign for 6" x 6" units.

   a. Bathroom signs are to be 8” wide x 9” high and are to be numbered with a sign on the upper frame of the door.

2. Bracket-Mounted Units: Not permitted except with special permission from the Campus Architect.

3. Locate surface-mounted signs on the wall adjacent to the latch side of the door (or the nearest adjacent wall) at 60" above finished floor from the centerline of the sign (any size) and out of the swing of the door. Mount signs with right edge 4" from inside face of the door jamb.

4. Locate surface-mounted insert sleeves centered below the room sign in multiples as necessary, each spaced one (1) inch apart.
C. Vinyl Film:

1. Apply vinyl film letters without wrinkles or distortions. Provide template to establish letter spacing.

END OF SECTION 10400