

SECTION 10 14 00
SIGNAGE

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Room and door signs.

1.02 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's printed product literature for each type of sign, indicating sign styles, font, foreground and background colors, locations, overall dimensions of each sign.
- C. Shop Drawings: Layout drawings for each sign.
- D. Signage Schedule: Provide information sufficient to completely define each sign for fabrication, including room number, room name, other text to be applied, sign and letter sizes, fonts, and colors.
 - 1. Provide a plan indicating final room names and numbers correlating to those used on the signs.
 - 2. When room numbers to appear on signs differ from those on drawings, include the drawing room number on schedule.
 - 3. When content of signs is indicated to be determined later, request such information from Owner through Architect at least 2 months prior to start of fabrication; upon request, submit preliminary schedule.
 - 4. Submit for approval by Owner through Architect prior to fabrication.
 - 5. Owner may modify text to any sign scheduled at the time of shop drawing review at no additional cost.
- E. Samples: Submit two samples of each type of sign, of size similar to that required for project, illustrating sign style, font, and method of attachment.
- F. Selection Samples: Where colors are not specified, submit two sets of color selection charts or chips.
- G. Verification Samples: Submit samples showing colors specified.
- H. Manufacturer's Installation Instructions: Include installation templates and attachment devices.

1.03 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum five years of documented experience.
- B. Single-Source Responsibility: For each different style of sign (flat signs, dimensional letters, etc.), obtain signs from one source from a single manufacturer.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Package signs as required to prevent damage before installation.
- B. Package room and door signs in sequential order of installation, labeled by floor or building.
- C. Store tape adhesive at normal room temperature.

1.05 FIELD CONDITIONS

- A. Do not install tape adhesive when ambient temperature is lower than recommended by manufacturer.
- B. Maintain this minimum temperature during and after installation of signs.

1.06 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:
 - a. Deterioration of metal and polymer finishes beyond normal weathering.
 - b. Deterioration of embedded graphic image colors and sign lamination.
2. Warranty Period: Five years from date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Flat Signs:
 1. Architectural Metalcrafters: www.amcrafters.com.
 2. ASI Sign Systems: www.asisignage.com.
 3. Best Sign Systems, Inc: www.bestsigns.com.
 4. FastSigns, 3259 NW 29th Avenue, Portland, OR 97210: www.fastsigns.com.
 5. Innerface Sign Systems, Inc: www.innerface-signage.com.
 6. Martin Bros. Inc: www.martin-bros.com.
 7. Mohawk Sign Systems, Inc: www.mohawksign.com.
 8. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 SIGNAGE APPLICATIONS

- A. Accessibility Compliance: Signs are required to comply with ADA Standards and ICC A117.1 and applicable building codes, unless otherwise indicated; in the event of conflicting requirements, comply with the most comprehensive and specific requirements.
- B. Room and Door Signs:
 1. Sign Type: Flat signs with photopolymer panel media as specified.
 - a. At exterior applications, fabricate signs from 1/16-inch thick exterior grade Rowmark material.
 2. Provide "tactile" signage, with letters raised minimum 1/32 inch and Grade II braille.
 3. Character Height: As indicated.
 4. Sign Size: As indicated in Sign Types, unless message requires a different size.
 5. Provide tactile signs at all panel sign locations.

2.03 SIGN TYPES

- A. Refer to Drawings for Sign Details.
- B. Flat Signs: Signage media without frame.
 1. Edges: Square.
 2. Corners: Square.
 3. Comply with requirements indicated for materials, finishes, colors, designs, shapes, sizes, and details of construction.
 - a. Produce smooth, even, level sign panel surfaces, constructed to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch measured diagonally.
 - b. Position text and symbols as detailed.
 - c. Braille color shall match background color.
 4. Sign Type 1:
 - a. Raised Copy: Signs shall be of one piece construction with raised characters and Grade II Braille. Added-on or engraved characters are not allowed for interior signs. Conform to applicable codes for ADA compliance.
 - b. Tactile characters and symbols, raised 1/32 inch minimum thickness from sign plate face.
 - c. Font: Arial, upper case.
 - d. Colors: As selected by Architect with character color contrasting with background color.
 5. Wall Mounting of One-Sided Signs: Tape adhesive.

- a. At signs mounted on glass, provide a blank panel matching the size and color of the sign on the back side of the glass for a neat and finished appearance from the back side of the sign.

2.04 SIGN TYPES

- A. See drawings for sign type.
- B. Type 1: ADA text and Braille, size as indicated on Drawings, text as scheduled on the Signage Schedule. Provide International Accessibility Symbol (IAS) pictogram where indicated. Type 1: ADA text and Braille, 3 inches x 3 inches, room number only.

2.05 ACCESSORIES

- A. Tape Adhesive: Double sided VHB tape, permanent adhesive.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that substrate surfaces are ready to receive work.

3.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions and accessibility requirements.
- B. Install neatly, with horizontal edges level.
- C. Locate signs and mount at heights indicated on drawings and in accordance with ADA Standards and ICC A117.1, using mounting methods of types described and complying with manufacturer's written instructions.
 1. Install signs level, plumb, and at heights indicated, with sign surfaces free of distortion and other defects in appearance.
 2. Interior Wall Signs: Install tactile signs on walls adjacent to latch side of door where applicable.
 - a. Where a tactile sign is provided at double doors with one active leaf, locate the sign on the inactive leaf.
 - b. Where a tactile sign is provided at double doors with two active leafs, locate the sign to the right of the right hand door.
 - c. Where there is no wall space at the latch side of a single door or at the right side of double doors, locate signs on the nearest adjacent wall.
 - d. Locate tactile signs so that a clear floor space of 18 inches minimum by 18 inches minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.
 - e. Locate tactile characters 48 inches minimum above the finish floor, measured from the baseline of the lowest tactile character, and 60 inches maximum above the finish floor, measured from the baseline of the highest tactile character.
- D. Wall-Mounted Signs: Comply with sign manufacturer's written instructions except where more stringent requirements apply.
 1. Two-Face Tape: Mount signs to smooth, nonporous surfaces. Do not use this method for rough surfaces.
 2. Silicone-Adhesive Mounting: Attach signs to irregular or porous surfaces.
 3. At glass mounted signs, provide a blank panel on the back side of the glass for a neat and finished appearance from the back side of the sign.
- E. Protect from damage until Substantial Completion; repair or replace damaged items.

END OF SECTION

SECTION 10 28 00
TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Commercial toilet accessories.
- B. Under-lavatory pipe supply covers.
- C. Related Items Owner Furnished and Contractor Installed (OFCI).

1.02 RELATED REQUIREMENTS

- A. Section 01 10 00 - Summary: OFCI requirements.
- B. Section 06 10 00 - Rough Carpentry: Concealed supports for accessories, including in wall framing and plates.
- C. Section 09 30 00 - Tiling: Coordination for installation of accessories.
- D. Section 22 40 00 - Plumbing Fixtures: Under-lavatory pipe and supply covers.

1.03 REFERENCE STANDARDS

- A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design.
- B. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- C. ASTM A269/A269M - Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service.
- D. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- E. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
- F. ASTM B456 - Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.
- G. ASTM C1036 - Standard Specification for Flat Glass.
- H. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass.
- I. ASTM C1822 - Standard Specification for Insulating Covers on Accessible Lavatory Piping.
- J. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- K. ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
- L. ICC A117.1 - Accessible and Usable Buildings and Facilities.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate the work with the placement of internal wall reinforcement to receive anchor attachments.
- B. Install work in conformance with ADA Accessibility Standards.

1.05 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Submit data on accessories describing size, finish, details of function, and attachment methods.
- C. Manufacturer's Installation Instructions: Indicate special procedures and conditions requiring special attention.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Commercial Toilet, Shower, and Bath Accessories:
 - 1. AJW Architectural Products: www.ajw.com.
 - 2. American Specialties, Inc: www.americanspecialties.com.
 - 3. Bobrick (Basis-of-Design): www.bobrick.com.
 - 4. Bradley Corporation: www.bradleycorp.com.
 - 5. Seachrome: www.seachrome.com
 - 6. Substitutions: Section 01 60 00 - Product Requirements.
- B. Provide products of each category type by single manufacturer.

2.02 MATERIALS

- A. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.
 - 1. Grind welded joints smooth.
 - 2. Fabricate units made of metal sheet of seamless sheets, with flat surfaces.
- B. Keys: Provide keys for each accessory to Owner; master key all lockable accessories.
- C. Stainless Steel Sheet: ASTM A666, Type 304.
- D. Stainless Steel Tubing: ASTM A269/A269M, Grade TP304 or TP316.
- E. Galvanized Sheet Steel: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G90/Z275 coating.
- F. Mirror Glass: Tempered safety glass, ASTM C1048; and ASTM C1036 Type I, Class 1, Quality Q2, with silvering as required.
- G. Adhesive: Contact type, waterproof.
- H. Fasteners, Screws, and Bolts: Hot dip galvanized; tamper-proof; security type.
- I. Expansion Shields: Fiber, lead, or rubber as recommended by accessory manufacturer for component and substrate.

2.03 FABRICATION

- A. Fabricated Components: Grind welded joints smooth.
- B. Form exposed surfaces from a single sheet of stock, free of joints.
- C. Form surfaces flat, without distortion. Maintain true, flat surfaces without scratches or dents.
- D. Shop assemble accessories and package complete with all fasteners, anchors, and fittings.
- E. Provide all steel anchor plates, adapters, and other installation components.

2.04 FINISHES

- A. Stainless Steel: Satin finish, unless otherwise noted.
- B. Chrome/Nickel Plating: ASTM B456, SC 2, satin finish, unless otherwise noted.
- C. Baked Enamel: Pretreat to clean condition, apply one coat primer and minimum two coats epoxy baked enamel.
- D. Galvanizing for Items Other than Sheet: Comply with ASTM A123/A123M; galvanize ferrous metal and fastening devices.
- E. Shop Primed Ferrous Metals: Pretreat and clean, spray apply one coat primer and bake.
- F. Back paint components where contact is made with building finishes to prevent electrolysis.

2.05 COMMERCIAL TOILET ACCESSORIES

- A. Mirrors: Stainless steel framed, 1/4 inch thick tempered safety glass; ASTM C1048.
 - 1. Size: As follows:
 - a. M-1: 24 x 36 inches.

2. Frame: 0.05 inch angle shapes, with mitered and welded and ground corners, and tamperproof hanging system; No.4 finish.
 3. Backing: Full-mirror sized, minimum 0.03 inch galvanized steel sheet and nonabsorptive filler material.
 4. Products: B-2908 Series manufactured by Bobrick.
- B. Grab Bars: Stainless steel, smooth surface.
1. Standard Duty Grab Bars:
 - a. Push/Pull Point Load: 250 pound-force, minimum.
 - b. Dimensions: 1-1/4 inch outside diameter, minimum 0.05 inch wall thickness, exposed flange mounting, 1-1/2 inch clearance between wall and inside of grab bar.
 - c. Finish: Satin.
 - d. Length and Configuration: As indicated on drawings.
 - e. Products:
 - 1) Seachrome Corporation: www.seachrome.com/#sle.
 - 2) Substitutions: Section 01 60 00 - Product Requirements.

2.06 UNDER-LAVATORY PIPE AND SUPPLY COVERS

- A. Under-Lavatory Pipe and Supply Covers:
1. Insulate exposed drainage piping including hot, cold, and tempered water supplies under lavatories or sinks to comply with ADA Standards.
 2. Exterior Surfaces: Smooth non-absorbent, non-abrasive surfaces.
 3. Construction: 1/8 inch flexible PVC.
 - a. Surface Burning Characteristics: Flame spread index of 25 or less and smoke developed index of 450 or less, when tested in accordance with ASTM E84.
 - b. Comply with ASTM C1822, type indicated.
 - c. Comply with ICC A117.1.
 - d. Microbial and Fungal Resistance: Comply with ASTM G21.
 4. Color: White.
 5. Fasteners: Reusable, snap-locking fasteners with no sharp or abrasive external surfaces.
 6. Products:
 - a. Plumberex Specialty Products, Inc; Plumberex Handy-Shield Maxx: www.plumberex.com/#sle.

2.07 ITEMS OWNER FURNISHED AND CONTRACTOR INSTALLED (OFCI)

- A. Provide complete installation of the following items, one per restroom or at multiple locations as required by fixture type at location. Coordinate with Architect prior to installation if items are not shown on Drawings.
1. Soap Dispenser: One at each lavatory or hand washing sink.
 2. Paper Towel Dispenser: One at each lavatory or hand washing sink.
 3. Toilet Paper Dispenser: One at each fixture.
 4. Toilet Seat Cover: One at each fixture in unisex and adult restrooms.
 5. Sanitary Napkin Dispensers: One at each girl's toilet and each single use toilet.
- B. Obtain product data from the Owner to correctly locate blocking for each item and to determine correct mounting height and placement for accessibility.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify exact location of accessories for installation.
- C. For electrically-operated accessories, verify that electrical power connections are ready and in the correct locations.
- D. Verify that field measurements are as indicated on drawings.

- E. See Section 06 10 00 - Rough Carpentry for installation of blocking, reinforcing plates, and concealed anchors in walls.

3.02 PREPARATION

- A. Deliver inserts and rough-in frames to site for timely installation.
- B. Provide templates and rough-in measurements as required.

3.03 INSTALLATION

- A. Install accessories in accordance with manufacturers' instructions in locations indicated on drawings.
- B. Install plumb and level, securely and rigidly anchored to substrate.
- C. Mounting Heights: As required by accessibility regulations, unless otherwise indicated.
 - 1. Grab Bars and other accessories: As indicated on drawings.

3.04 PROTECTION

- A. Protect installed accessories from damage due to subsequent construction operations.

END OF SECTION