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Revised 10/01/04

SECTION 10442

CHEMICALLY DEEP-ETCHED ZINC SIGNAGE

THIS SECTION CAN BE DONE BY ALLOWANCES OR DELETE ALLOWANCES. USE BRAND NAMES FROM PART 2 – PRODUCTS, AND REFER TO SCHEDULE AT END OF PART 3 - EXECUTION.

ITEMS WITHIN BRACKETS ([XXX]) ARE CHOICES. DELETE AS REQUIRED.

PART 1 GENERAL

1.1 ALLOWANCES

- A. Refer to Section 01210 - Cash Allowances for the Cash Allowance Sum applicable to this Section of Work.
- B. This allowance includes purchase, [and delivery] [and installation] of signs and letters. [Installation is included in this Section and is part of the Contract Sum.]

1.2 DEFINITIONS

- A. Signs for Permanent Rooms: Signs for men's and women's rest rooms, numbered rooms and exits.
- B. Directional and Informational Signs: Wall-mounted signs that provide direction to or information about functional spaces.

ALWAYS KEEP THE FOLLOWING DESIGN REQUIREMENTS.  
THEY STATE ADA REQUIREMENTS.

## **SPECIFICATION MASTER**

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### 1.3 DESIGN REQUIREMENTS - PERMANENT ROOMS

- A. Tactile and Braille Characters: Raised 1/32 inch accompanied by Grade II Braille.
- B. Typestyles: Upper-case and sans serif.
- C. Character Height: Minimum 5/8 inch high, maximum 2 inches; all upper-case.
- D. Pictograms (Symbols): Equivalent written description shall be placed directly below symbol. Written description shall not be within symbol's background field. Border dimension of symbol's background field shall be minimum 6 inches high.
- E. Finish and Contrast: Characters and background shall be eggshell, matte or other non-glare finish. Characters shall adequately contrast with background.

### 1.4 DESIGN REQUIREMENTS - DIRECTIONAL AND INFORMATIONAL SIGNS - WALL MOUNTED

- A. Typestyles: Width-to-height ratio of between 3:5 and 1:1; stroke width-to-height of between 1:5 and 1:10.
- B. Character Height: Sized to viewing distance. ANSI Table 703.4.2.4 Minimum 5/8 inches high.
- C. Finish and Contrast: Characters and background shall be eggshell, matte or other non-glare finish. Characters shall adequately contrast with background.

### 1.5 DESIGN REQUIREMENTS - OVERHEAD SIGNS

- A. Typestyles: Width-to-height ratio of between 3:5 and 1:1; stroke width-to-height of between 1:5 and 1:10.
- B. Character Height: Sized to viewing distance. ANSI Table 703.4.2.4 Minimum 3 inches high.
- C. Finish and Contrast: Characters and background shall be eggshell, matte or other non-glare finish. Characters shall adequately contrast with background.

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### 1.6 SUBMITTALS

- A. Submittals: Follow Section 01300.
- [ B. Provide shop drawings' listing of sign types, lettering and locations and overall dimensions of each sign.]
- [ C. Samples: Provide one full size sample sign of type, style and color specified including method of attachment.]
- [ D. Submit manufacturer's installation instructions.]
- [ E. Include installation template and hardware.]

### 1.7 QUALITY ASSURANCE

- A. For each sign form and graphic image process indicated furnish products of a single manufacturer.

### 1.8 REGULATORY REQUIREMENTS

- A. Comply with applicable provisions of American National Standard Specifications for Making Buildings and Facilities Accessible To and Usable by Physically Handicapped People, ANSI A117.1, latest edition.

INCLUDE REFERENCE TO NORTH CAROLINA CODE WHERE APPROPRIATE, LIKE TENNESSEE.
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- B. Comply with applicable provisions of [Handicapped Section of the North Carolina State Building Code and] the Americans with Disabilities Act (ADA).

### 1.9 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store and handle products in this Section; follow Section 01600.
- B. Package separately or in like groups of names, labeled as to names enclosed. Include installation template, hardware or adhesive specified and installation instructions.
- C. Store adhesive tape at ambient room temperatures.

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### 1.10 ENVIRONMENTAL REQUIREMENTS

- A. Do not install signs when ambient temperature is below 70 degrees F. Maintain this minimum temperature during and after installation of signs.

### PART 2 PRODUCTS

#### 2.1 ACCEPTABLE MANUFACTURERS

- A. Dixie Graphics, Nashville, TN 37211, 615-832-7000

PICK SHEEN AND EITHER SOLID METAL OR LAMINATE DESIGN. MAGNESIUM SIGNS ARE NOT PERMITTED BECAUSE THEY ARE SUSCEPTIBLE TO DISCOLORATION AND CORROSION OVER TIME. FOR INTERIOR SIGNS SELECT FROM MATTE, SEMIGLOSS, OR GLOSS FINISH. FOR EXTERIOR SIGNS SELECT ONLY EXTERIOR GLOSS FINISH. BRASS, COPPER, AND BRONZE ELECTROPLATED SIGNS ARE FOR INTERIOR USE ONLY AS THEY MAY TARNISH OUTSIDE.

- B. Substitutions: [Follow Section 01600] [None permitted].

#### 2.2 MATERIALS GENERAL

- A. General: Chemically deep-etched zinc with raised lettering and Grade II Braille. [[Solid metal [.064"] [.125"] [.153"] [.250"] thick]]; [[ \_\_\_\_\_ ] thick face plate laminated to [ \_\_\_\_\_ ] thick [acrylic] [celtec] [sintra] backer]]. [[Matte] [Semigloss] [Gloss] [Exterior Gloss] sheen]]. Magnesium signs will not be permitted.

EITHER PICK A COLOR FOR RAISED SURFACES AND BACKGROUND (WHICH HAVE TO CONTRAST WITH ONE ANOTHER), PICK LATER FROM SUBMITTALS, OR SHOW IT ON THE DRAWINGS. SIMILARLY, EITHER PICK SIZE HERE OR SHOW IT ON THE DRAWINGS. MINIMUM CHARACTER HEIGHT MUST COMPLY WITH ANSI TABLE 703.4.2.4 FOR VIEWING DISTANCE. WHEN SELECTING A COLOR CHOOSE FROM SILVERTONE, ONE OF MANUFACTURER'S OTHER NATURAL ZINC FINISHES, STANDARD OR SPECIAL PAINTS, METALLIC TINTS OR ELECTROPLATED. ELECTROPLATING IS AVAILABLE ONLY ON .125" AND ABOVE THICKNESSES. SILVERTONE IS MANUFACTURER'S NATURAL ZINC FINISH MOST COMMONLY USED. WITH SILVERTONE AND THE METALLIC TINT FINISHES [BRASSTONE, BRONZETONE, COPPERTONE] ALSO SELECT EITHER HORIZONTAL OR VERTICAL GRAIN BRUSHING.

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### B. Raised Surfaces / Lettering:

1. Color: [ \_\_\_\_\_ ] [[Silvertone with [horizontal] [vertical] grain brush]]; [Painted in one of manufacturer's standard colors or special match color]; [[Tinted to [bronze] [brass] [copper] tone with [horizontal] [vertical] grain brush]]; [[Sandblasted]; [Mirror polished]; [Electroplated in [brass] [chrome] [nickel] [copper] [bronze] [silver] [gold] in [polished] [satin] [antique] [oxide] [oil-rubbed] [venetian] sheen]]; [As indicated on drawings].
2. Height: [[ \_\_\_\_\_ ] [5/8 inches min.]] [As indicated on drawings].

FOR BACKGROUNDS SELECT EITHER A PAINTED COLOR AND TEXTURE, A NATURAL ZINC FINISH THAT IS SILVERTONE, SANDBLASTED, SWIRL BRUSHED, OR MIRROR POLISHED OR AN ELECTROPLATED FINISH. METALLIC TINTS CANNOT BE USED FOR BACKGROUND COLORS. BEVELING IS AVAILABLE ONLY ON THICKNESSES OF .125" AND GREATER.

### C. Backgrounds:

1. Background Color: [ \_\_\_\_\_ ]; [As selected from manufacturer's standard paint colors or special match color]; [[Silvertone with [horizontal] [vertical] grain brush]]; [Sandblasted]; [Swirl Brushed]; [Mirror Polished]; [[Electroplated in [brass] [chrome] [nickel] [copper] [bronze] [silver] [gold] in [polished] [satin] [antique] [oxide] [oil-rubbed] [venetian] sheen]]; [As indicated on drawings].
2. Background Paint Texture: [Smooth] [Suede] [Leatherette].
3. Corners: [Square] [Round] [Chamfer] [As indicated on drawings].
4. Edges/Borders: [Straight]; [[Beveled[30°][45°] [Bullnose] [Chamfer]]] [As indicated on drawings].

## 2.3 ACCESSORIES

- [ A. Tape Adhesive: [468 Double Sided Adhesive] [VHB Strips]].

PICK THE TYPE OF MOUNTING HARDWARE WHEN THIS IS NEEDED. FOR CONCEALED MOUNTING SELECT EITHER WELDED STUDS OR DRILLED AND TAPPED HOLES. DRILLED AND TAPPED FASTENERS ARE RECOMMENDED FOR LARGE, HEAVY SIGNS (.250" THICKNESS, 11" X 17" AND ABOVE). DRILLED AND TAPPED HOLES ARE AVAILABLE ONLY ON .250" THICKNESS. METAL STUDS CAN BE WELDED ONLY ON THICKNESSES OF .125" AND GREATER.

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[ B. Concealed Mounting: [Welded Studs] [Drilled and Tapped Holes]].

[ C. Mounting Holes: [Drilled] [Drilled and Countersunk]].

### **PART 3 EXECUTION**

#### **3.1 EXAMINATION**

- A. Verify that surfaces are ready to receive work.
- B. Beginning of installation means installer accepts existing surfaces.

#### **3.2 INSTALLATION**

- A. Install signs according to manufacturer's instructions. Install signs after surfaces are painted and finished, in locations indicated.
- B. Mounting Location: Mount signs to comply with ANSI 703.2.8 mounting location.
- C. Mounting Height: Mount signs to comply with ANSI 703.4.5 mounting height. Mounting heights shall comply with ANSI TABLE 703.4.2.4, based on the size of the characters on the sign.
- D. Locate signs on surfaces, level. Clean and polish.

IF AN ALLOWANCE IS NOT USED, THEN INCLUDE THE FOLLOWING:
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#### **3.3 SCHEDULE**

- [ A. Provide signs with name and number for each space per Architectural Floor Plans for rooms, such as rest room identification, code required signs and telephone identification signs. Do not use abbreviations.
  - 1. Rest Rooms sign panels shall be as follows: [MEN or WOMEN] [BOYS or GIRLS] (with wheelchair symbol).
  - 2. Code required signs shall display warning, danger, hazard, emergency, fire and evacuation information.

3. Telephone signs shall be either ceiling mounted or flag type.]

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ADD TO AND DELETE FROM THE FOLLOWING LIST AS APPLICABLE TO PROJECT:
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- [ B. The following doors do not require room number signs:
1. Corridor barrier doors (cross-corridor).
  2. Folding doors.
  3. Doors to stairs, toilet and bathroom doors within spaces.
  4. Doors to toilets in private office.
  5. Communicating doors in partitions between rooms with numbered entrance doors or closet doors within rooms.]

END OF SECTION