

SECTION 34 41 13

SIGNAGE**PART 1 - GENERAL****1.1 DESCRIPTION**

- A. Provide all products, equipment, transportation, protection and labor required to construct and install warning, regulatory, directional, entrance and information signage, including sign posts and associated hardware, as shown on the plans, or as directed by the City.

1.2 MEASUREMENT AND PAYMENT

- A. Signage will be paid for per each unit sign. All sign components (substrate, sheeting, post, support, mounting hardware, etc.) will not be measured or paid for directly but will be subsidiary to each unit sign. This compensation shall include all labor, materials, equipment and incidentals necessary to complete the work. The signage to be installed includes warning, regulatory, directional, entrance and information types.

1.3 SUBMITTALS

- A. Shop Drawings: Show shop drawings, not necessarily to scale, but sufficient enough in detail to show color, wording, lettering size and style, overall sign size, construction details and installation details for each type of sign.

PART 2 - PRODUCTS**2.1 SIGN SUBSTRATE**

- A. Sign substrate (except street name signs) shall meet requirements for ASTM B 209 and have the following thicknesses: 0.080” for signs less than 7.5 sq. feet, 0.100” for signs 7.5 to 15 sq. feet, and 0.125” for signs greater than 15 sq. feet.
- B. For street name signs in the areas governed by the City of College Station, contact the city’s Planning and Development Services Department for the requirements and standards.
- C. In the City of Bryan, all street name signs shall be green unless otherwise specified or located within the bounds of Sims Street to the east, Texas Avenue to the west, Martin Luther King Boulevard to the north, and E. 29th Street to the south, where street name signs shall be brown and include the Downtown Bryan logo as provided by the City of Bryan Traffic Department.

2.2 SIGN SHEETING

- A. All sign sheeting materials shall meet the requirements of ASTM D 4956 Type, as follows:
 - 1. Red background – ASTM Type VII, VIII, IX, or X (or TxDOT Type D), with ASTM Type III or IV (TxDOT Type C) legend/border
 - 2. White background – ASTM Type III or IV (TxDOT Type C), with black acrylic legend/border
 - 3. Fluorescent Yellow-Green background – ASTM Type VII, VIII, IX, or X (TxDOT Type E), with black acrylic legend/border (school-related warning signs)
 - 4. Green, Brown, Blue backgrounds – ASTM Type III or IV (TxDOT Type C), with white ASTM Type VII, VIII, IX, or X (TxDOT Type D) legend/border

2.3 SIGN POST

- A. All sign posts shall be 13 BWG galvanized steel tubing (as per ASTM 123 or ASTM A653 G210), and have 2.375” outside diameter and 0.095” nominal wall thickness. In the City of Bryan, posts shall be black powder-coated when specified and in the City of College Station, posts shall always be bronze powder-coated. Painted or spliced posts are not acceptable. Posts shall be seamless steel tubing, with 50,000 PSI minimum yield strength, and 70,000 PSI minimum tensile strength. Length shall be determined as per Texas MUTCD sign height requirements. All sign posts shall be delineated with a 12-inch retroreflective strip (yellow or red) as per Section 2A.21 of the Texas MUTCD.

2.4 SIGN SUPPORT

- A. For the City of Bryan, sign supports shall meet crashworthy requirements of NCHRP 350, and unless otherwise specified, shall be the steel “Wedge Anchor System”, except for when sign is in the TxDOT right-of-way. Signs located within TxDOT right-of-way shall be the “Triangular Slipbase System” as shown on TxDOT standard detail SMD (Slip-1)-08.
- B. City of College Station shall require, as shown on the TxDOT standard details, the “Triangular Slipbase System” on collectors and above and the “Wedge Anchor Systems” on local streets.

2.5 MISCELLANEOUS

- A. Use galvanized steel, stainless steel, or dichromate-sealed aluminum for bolts, nuts, washers, lock washers, screws, and other sign assembly hardware. Use plastic or nylon washers to avoid tearing the sheeting material.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Erect signs in their designated locations, as indicated and in accordance with the approved shop drawings and the applicable requirements of DOT Section 645.
- B. Examine proposed sign location, mark with stake and seek City representative’s approval prior to installation.
- C. Protect surfaces and finishes from abrasion and other damage during handling and installation.
- D. Replace damaged or faulty signs.

END OF SECTION