TRAFFIC SIGNS AND POSTS

PART 1 – GENERAL
Comply with Division 1 of SUDAS - General Provisions and Covenants

1.01 SECTION INCLUDES
A. Traffic Signs
B. Traffic Sign Posts
C. Removal of Signs and Posts

1.02 DESCRIPTION OF WORK
Includes requirements for traffic sign panels and posts for installation.

1.03 SUBMITTALS
Comply with Division 1 – General Provisions and Covenants.

1.04 SUBSTITUTIONS
Comply with Division 1- General Provisions and Covenants.

1.05 DELIVERY, STORAGE AND HANDLING
Comply with Division 1- General Provisions and Covenants.

1.06. SCHEDULING AND CONFLICTS
Comply with Division 1- General Provisions and Covenants.
Notify the Engineer at least 72 hours in advance of all removals.

1.07 SPECIAL REQUIREMENTS
None.

1.08 MEASUREMENT AND PAYMENT

A. Sign Panels
1. Measurement: Per square foot of sign area.
2. Payment: Per unit price per square foot of sign area as installed.

B. Sign Posts
2. Payment: At unit price per linear foot.
3. Includes: All post sections, anchor, and associated hardware for installation of posts and Erection of signs.
C. Removal of Sign
   1. Measurement: Each sign and post assembly will be counted.
   2. Payment: Payment will be at the unit price for each sign and post assembly.
   3. Includes: Unit price includes, but is not limited to, removal, disposal, and backfilling as necessary.

D. Removal and Reinstallation of Sign
   1. Measurement: Each reinstalled sign and post assembly will be counted.
   2. Payment: Payment will be at the unit price for each reinstalled sign and post assembly.
   3. Includes: Unit price includes, but is not limited to removal, protection, and reinstallation. New posts, if necessary due to damage or if specified are incidental.

E. Removal and Salvage of Sign
   1. Measurement: Each sign and post assembly will be counted.
   2. Payment: Payment will be at the unit price for each sign and post assembly removed.
   3. Includes: Unit price includes, but is not limited to, removal, protection, salvage as designated in the contract documents, and backfilling as necessary.

PART 2 – PRODUCTS

2.01 Sign Panels

   A. Fabricate signs from sheet aluminum in accordance with Section 4186.02 A. of the Iowa Department of Transportation Standard Specifications.
   B. Retroreflective Sheeting in accordance with Section 4186.03 of the Iowa Department of Transportation Standard Specifications.
   C. Sign fabrication in accordance with Section 4186.06 of the Iowa Department of Transportation Standard Specifications.
   D. Fastening accessories in accordance with Section 4186.09 A. of the Iowa Department of Transportation Standard Specifications.

2.02 Sign Posts

   A. Perforated Square Steel Tube, 2 inches square with 14-gauge wall, 11 feet in length.
   B. Steel in conformance with ASTM A1011, Grade 50.
   C. Average minimum yield strength after cold-forming: 60,000 psi.
   D. Corner welded, scarfed, zinc coated.
   E. Chromate conversion coating, clear organic polymer topcoat.
   F. Galvanized interior and exterior.
   G. Made in USA.
2.03 Anchor Post

A. Perforated Square Steel Tube, 2 ¼ inch square, 12-gauge wall, 48 inch in length.
B. Steel in conformance with ASTM A1011, Grade 50.
C. Average minimum yield strength after cold-forming: 60,000 psi.
D. Corner welded, scarfed, zinc coated.
E. Chromate conversion coating, clear organic polymer topcoat.
F. Galvanized interior and exterior.
G. Made in USA.

2.04 Sign Post Extension

A. Perforated Square Steel Tube, 1 ¾ inch square, 14-gauge wall, 30 inch in length.
B. Steel in conformance with ASTM A10111, Grade 50.
C. Average minimum yield strength after cold-forming: 60,000 psi.
D. Corner welded, scarfed, zinc coated.
E. Chromate conversion coating, clear organic polymer topcoat.
F. Galvanized interior and exterior.
G. Made in USA.

2.05 Omni-Directional Soil Stabilizing Anchor Sleeve

A. Perforated Square Steel Tube, 2 ½ inch square, 12-gauge wall, 18 inch in length.
B. Steel in conformance with ASTM1011, Grade 50.
C. Average minimum yield strength after cold-forming: 60,000 psi.
D. Corner welded, scarfed, zinc coated.
E. Chromate conversion coating, clear organic polymer topcoat.
F. Galvanized interior and exterior.
G. Made in USA.
H. Weld 4, 4 “x 12”, 10-gauge triangular wing plates to each corner of the tube at 45 degree angles at 2 1/2 inches from top of tube.

2.06 Medium Corner Bolt

A. 5/16 inch diameter, 2 bend truss head, 18 grade.
B. Steel in conformance with ASTM A307.
C. Zinc plated in conformance with ASTM B633.
D. Made in USA.

PART 3 – EXECUTION

3.01 Sign Panels

A. Erect in accordance with Section 2524.03.B.1. of Iowa Department of Transportation Standard Specifications.
3.02 Sign Posts
   A. Install posts and anchors in accordance with Section 2524.03.B.3 of Iowa Department of Transportation Standard Specifications.

3.03 Sign Post Extension
   A. For use to mount street name signs above stop signs.

3.04 Omni-Directional Soil Stabilizing Anchor Sleeve
   A. For use in stabilizing sign assemblies which include multiple signs.
   B. Sleeves shall slide over the anchor stubs and line up with the top of the anchor stub.

END OF SECTION