

SECTION 610 – METAL SIGN SUPPORTS

610.01 DESCRIPTION

This work shall consist of furnishing and placing metal sign support. Only metal U-posts and Square posts shall be used.

610.02 REFERENCE STANDARDS

ASTM A 123 – Zinc (Hot-Dip Galvanized) Coating on Iron and Steel Products
 A 653 – Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated
 (Galvannealed) by the Hot-Dip Process
AASHTO Structural Supports for Highway Signs, Luminaires, and Traffic Signals

610.03 DEFINITIONS

Not Applicable.

610.04 MATERIALS

- A. All metal sign supports shall conform to the latest FHWA breakaway requirements and AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals.
- B. Galvanizing for U-posts ASTM A – 123 and square posts ASTM A – 653.
- C. Square posts shall be 2” size and 10’ long.

610.05 SUBMITTALS

The Contractor shall submit the manufacturer’s certification showing the post meet all requirements stated in the material section.

610.06 QUALITY ASSURANCE

N/A

610.07 CONSTRUCTION

A. Metal Sign Supports

- 1. Metal Sign Supports will be driven and shall be placed in the ground in a plumb position at the locations specified on the plan sheets or as directed by M-NCPPC CM.
- 2. The depth of embedment and the weight of the support used shall be determined by the following factors:

- a. Design Wind Speed Loading at 60 MPH
 - b. Size of the sign
 - c. Mounting height to the bottom of the sign
 - d. The latest AASHTO and FHWA break-a-way and yielding requirements
3. The height of the sign above the pavement or ground is determined based on the sign detail.
- B. Drive Caps. Drive Caps shall be used on the tops of either type of metal sign support when they are being driven into the ground.
- C. When installing metal sign supports through concrete, drill, core, or sawcut a separate hole through the concrete for each post. The post hole shall be a maximum of one (1) inch larger than the largest cross-sectional dimension of the sign support to be installed. After drilling, coring, or sawing, remove all concrete debris from the hole. Clean and dry the area around the hole before proceeding. Insert and drive the metal sign support through this hole to the proper embedment depth. Fill the hole around the post with silicone sealer.

610.08 MEASUREMENT AND PAYMENT

Payment will be full compensation for all material, labor, equipment, tools and incidental items necessary to complete the work. Payment shall be made on a unit rate or lump sum basis as shown in the bid proposal.