GENERAL NOTES:

1. Verify Column lengths in the field prior to fabrication.

2. Shop drawings:
   A. Column/Sign Posts: Support shop drawings are not required when fabricated in accordance with this Index and support posts do not exceed the length shown in the plans by more than 2'-0".
   B. Sign Panels: Horizontal panel splices are allowed at interior wind beams for sign panels with a depth of greater than 10 feet. Shop drawings required for panel splice details.
   C. When shop drawings are required; obtain approval prior to fabrication.

3. Materials:
   A. Sign Panel Mounting Materials:
      a. Aluminum Bars, and Extruded Shapes: ASTM B221, Alloy 6061-T6 or Alloy 6351-T5
      b. Aluminum Structural Shapes: ASTM A606, Alloy 6061-T6
   B. Sign Support Structure Materials:
      a. Steel Plates and Structural Shapes: ASTM A36 or ASTM A709, Grade 36
      b. Steel Weld Metal: E70XX
      c. Reinforcement: ASTM A618
   C. Aluminum Bolts, Nuts and Washers:
      a. Flat Head and Button Head Bolts: ASTM F 468, Alloy 2024-T4
      b. Hex Nuts: ASTM F467, 2024-T4
      c. Washers: ASTM B221, Alloy 7075-T6
   D. Stainless Steel Bolts, Nuts and Washers: Alloy Group 2, Condition A, may be substituted for the Aluminum bolts as follows:
      a. Bolts: ASTM F3125, CW1 or SN1
      b. Nuts: ASTM F594
      c. Washers: ASTM F436
   E. High Strength (H.S.) Steel Bolts, Nuts and Washers:
      a. Galvanized Hex Head Bolts: ASTM F3125, Grade A325, Type 1
      b. Galvanized Nuts: ASTM A495, Grade DH
      c. Galvanized Washers: ASTM F436
   F. Concrete: Class I
   G. Reinforcing Bars or Welded Wire Reinforcement (WWR): Specification Section 615

4. Coatings:
   A. Aluminum Fasteners: Anodic coating (0.0002 inches min.) and chromate sealed
   B. Galvanize High Strength Steel Bolts, Nuts and Washers: ASTM F594
   C. Galvanize all other steel items (excluding stainless steel) hot-dip ASTM A123
   D. Treat damaged galvanizing in accordance with Specification Section 592

5. Fabrication:
   A. All Base Connections and Stub Column materials are steel unless otherwise specified.
   B. Drill or sub-punch and ream holes in Fuse Plates and Hinge Plates
   C. Weld Base Plates to Post & Stub or if using the Alternate Connection Detail weld Base Plate and Stiffeners to Post and Stub (Sheet 2)
   D. Hot dip galvanize after fabrication. Remove all drips, runs or beads on base plate within washer contact areas (Including saw cuts)

6. Construction:
   A. Install the Sign Structure foundation in accordance with Specification Section 455. Orient Stub Post according to direction of traffic (Sheet 2)
   B. Tighten all high strength bolts except Base Bolts in accordance with Specification Section 700
   C. Assemble Post to Stub with Base Bolts and three flat washers per bolt (See Base Connection Details, Sheet 2). Tighten Base Bolts in accordance with Instructions Notes on Sheet 2.
MULTI-COLUMN GROUND SIGN ASSEMBLY

FOUNDATION NOTES:
The Contractor may use Welded Wire Reinforcement (WWR) for foundation reinforcing.

At the Contractor’s option, the #4 tie bars at 12” o.c. may be replaced by D10 Spiral Wire @ 6” pitch, with three flat turns at the top and one flat turn at the bolt in accordance with Specification Section 415.

INSTRUCTIONS NOTES:
1. Assembly of Base Instructions:
   A. Place one washer on each Base Bolt between the Bottom Base Plate and the head of high strength Base Bolt; place the next washer between the Bottom Base Plate and the Bolt Keeper Plate; add the Top Base Plate section and place the third washer between the Top Base Plate and the Nut.
   B. Shim as required to plumb column. Provide 2-0.0149” thick (31 gauge) brass shims per column.

2. H.S. Base Bolt L4 Tightening Instructions:
   A. Tighten Base Bolts to the maximum possible with a 12” to 15” wrench this will bed the washers and shims and clear the bolt threads.
   B. Loosen each Base Bolt one turn.

   C. Under the supervision of the Engineer, use a calibrated wrench to tighten bolts to the torque prescribed in the table. Over tightened Base Bolt’s will not be permitted.

   D. Burr threads at junction with nut to prevent nut loosening. Treat damaged galvanizing.

ALTERNATIVE BASE CONNECTION DATA

INDEX 700-020  
SHEET 2 of 3  
FY 2018-19  
STANDARD PLANS  
LAST REVISION 01/17  
DESCRIPTION: MULTI-COLUMN GROUND SIGN
MULTI-COLUMN GROUND SIGN

SHEET INDEX
11/01/17

REV. DESCRIPTION:
01/17

FY 2018-19
STANDARD PLANS

MULTI-COLUMN GROUND SIGN

WIND BEAM, BACKING STRIP & FUSE/HINGE PLATE DETAILS

MULTI-COLUMN SIGN ASSEMBLY

FUSE & HINGE PLATE DETAILS

SIDE ELEVATION

BACK ELEVATION

PLAN VIEW

FUSE PLATE

HINGE PLATE

MULTI-COLUMN SIGN BACK PANEL

NUMBER OF WIND BEAMS FOR GIVEN DEPTH

SIZE OF WIND BEAMS

* Designations: Normal Depth in inches.