SPAN SIGN STRUCTURE NOTES

1. Design according to FDOT Structures Manual. Alternate Designs are not allowed.
2. Submit shop drawings for all work. Include:
   a. Foundation elevations to ensure minimum vertical clearances as per traffic plans.
   b. Anchor bolt orientation with respect to centerline of truss and the direction of traffic.
   c. The method to be used to provide the required parabolic camber. (See Camber Diagram)
3. Shop Fabrication, Assembly, Handling and Shipping:
   a. Do not begin fabrication before receiving shop drawing approval.
   b. Fabricate all structural members in accordance with the Structural Welding Code (Steel) AWS D1.1 (current edition).
   c. Shop assemble the entire structure after galvanizing and prior to shipment.
4. Sign Structure Materials:
   a. Upright and Chords (Steel Pipe): API-5L-X42, 42 ksi yield or ASTM A500, Grade B (min.).
   b. Steel Angles: ASTM A36, Grade 36.
   c. Steel Plates: ASTM A709, Grade 36.
   d. Weld Metal: E70XX.
   e. Bolts: ASTM A325 Type 1, (install per Specification Section 700) with single, self-locking nuts.
   f. Anchor Bolts: ASTM F1554, Grade 55 with ASTM A563 Grade A heavy- hex double nuts.
   g. Install all nuts per manufacturer’s instructions.
   h. Bolt hole diameters: equal to the bolt diameter plus \( \frac{1}{4} \) in.
   i. Anchor bolt hole diameters: equal to the bolt diameter plus \( \frac{3}{8} \) in.
   j. Use of split lock washers is not permitted.
5. Galvanization: Nuts, bolts and washers: ASTM F2329. Other steel items: ASTM A123
7. Foundation Materials:
   a. Reinforcing Steel: ASTM A615, Grade 60.
   b. Concrete: Class IV (Drilled Shaft), minimum 4.0 ksi compressive strength at 28-days for all environmental
      classifications.
   c. Steel Plates: ASTM A709, Grade 36.
   d. Steel Angles: ASTM A709, Grade 36.
8. Prestressing Steel: ASTM 416
9. camber may be either the Standard splice or the Alternate splice.
10. Anchor bolts are not allowed.
11. Anchor bolts are not allowed.
12. Field verification of all sign structures shall be verified by the Engineer.
13. The panel length shall be minimum of 3 truss panel lengths apart.

NOTE: See Plans for Span Sign Structure Data Table

CAMBER DIAGRAM

14. Handhole at pole base is required for DMS structures. See Index 18300 for details.
13. In case of conflict with anchor bolt locations, move the CSL access tube location ± two inches along the inner circumference of the
    access tube locations conflict.
12. Verify CSL access tubes will not interfere with anchor bolt installation before excavating the shaft. When CSL
    access tube locations conflict
11. Locate Chord splices a minimum of 3 truss panel lengths apart. Chord splices may be either the Standard splice or the
    Alternate splice.
10. Prior to installation, record the as-built anchor locations and provide to the Engineer.
9. Chord splice angles with respect to centerline of truss and the direction of traffic.
8. Construct the Sign Structure foundation in accordance with FDOT Specification Section 455.
7. Do not begin fabrication before receiving shop drawing approval.
6. Shop assemble the entire structure after galvanizing and prior to shipment.
5. The method to be used to provide the required parabolic camber. (See Camber Diagram)
4. Sign Structure Materials:
3. Do not begin fabrication before receiving shop drawing approval.
2. Submit shop drawings for all work. Include:
1. Design according to FDOT Structures Manual. Alternate Designs are not allowed.

NOTE:  See Plans for Span Sign Structure

isci.
Anchor Bolts
Equally Spaced between 'BD' Stiffner Plates
For Left Upright
and Upright Center of Drilled Shaft
Equally Spaced
Anchor Bolts 'CB' For Right Upright 'BB' For Left Upright

Bolt C 'CH' For Right Upright 'BH' For Left Upright

See Upright Cap Detail

1.5 x 'F' OD
2 Equal Rows of Bolts

Bottom Truss Chord 'F'

Wrap Fillet Weld Around Stiffener Termination on the Tube Wall (Typ.)

1" For Left Upright
WP For Right Upright

Top Truss Chord
Truss Web Angles
Truss Chord

'LG' or 'RG'
'RF' For Right Upright 'LF' For Left Upright

See Detail D

1.5 x 'F' OD + 7" (Typ.)

'F' OD + ('H' or 'J') OD + 2"

1.5 x 'F' OD + (H or J) OD + 2"

2 Bolt Dia + (1) Bolt

Wire Screen see Spec. 649-6

Leveling Nuts

Drilled Shaft

SECTION A-A

See Upright Cap Detail

1.5 x 'F' OD

2 Equal Rows of Bolts

Top Truss Chord
Truss Web Angles
Truss Chord

'LG' or 'RG'
'RF' For Right Upright 'LF' For Left Upright

See Detail D

1.5 x 'F' OD + 7" (Typ.)

'F' OD + ('H' or 'J') OD + 2"

1.5 x 'F' OD + (H or J) OD + 2"

2 Bolt Dia + (1) Bolt

Wire Screen see Spec. 649-6

Leveling Nuts

Drilled Shaft

SECTION A-A

See Upright Cap Detail

1.5 x 'F' OD

2 Equal Rows of Bolts

Top Truss Chord
Truss Web Angles
Truss Chord

'LG' or 'RG'
'RF' For Right Upright 'LF' For Left Upright

See Detail D

1.5 x 'F' OD + 7" (Typ.)

'F' OD + ('H' or 'J') OD + 2"

1.5 x 'F' OD + (H or J) OD + 2"

2 Bolt Dia + (1) Bolt

Wire Screen see Spec. 649-6

Leveling Nuts

Drilled Shaft

SECTION A-A

See Upright Cap Detail

1.5 x 'F' OD

2 Equal Rows of Bolts

Top Truss Chord
Truss Web Angles
Truss Chord

'LG' or 'RG'
'RF' For Right Upright 'LF' For Left Upright

See Detail D

1.5 x 'F' OD + 7" (Typ.)

'F' OD + ('H' or 'J') OD + 2"

1.5 x 'F' OD + (H or J) OD + 2"

2 Bolt Dia + (1) Bolt

Wire Screen see Spec. 649-6

Leveling Nuts

Drilled Shaft

SECTION A-A
**VIEW F-F**

Showing detail similar to detail H.

**VIEW G-G**

Similar to detail J.

**SECTION E-E**

**FRONT OF TRUSS ELEVATION**

(Back Truss Chord and attached Angles not shown for clarity)

- $\frac{1}{2}$ Of The Number Of Panels Required
- Whole Number For An Odd Number Of Panels

**BACK-SIDE SIGN MOUNTING DETAIL**

- Flange Bar Sign Hanger
- 2 - $\frac{3}{8}$ Bolts (Typ.)
- 2 - $\frac{1}{4}$ U Bolt
- $\frac{3}{8}$ U-Bolt w/ Self-Locking Nuts (Typ.)
- NOTE: Abbreviation OD – Outside Diameter

See Index No. 11300.