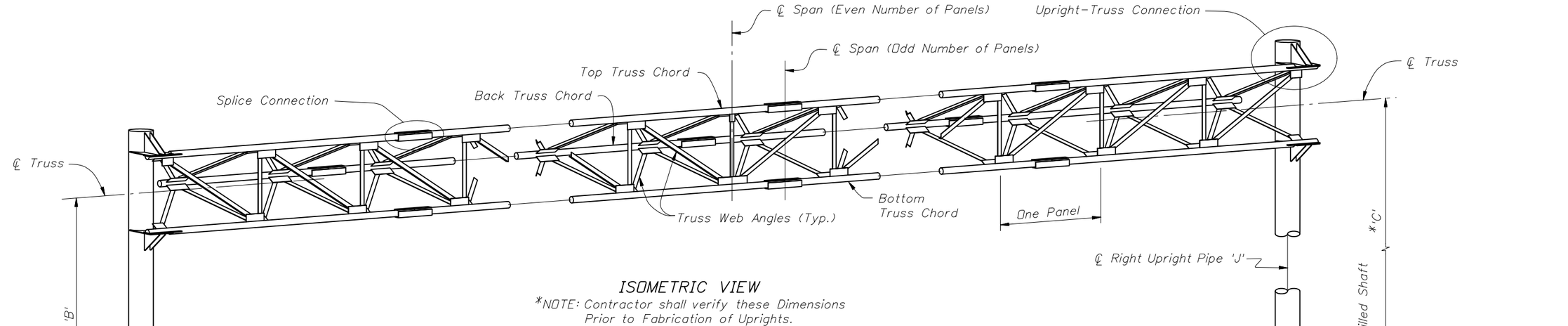



ISOMETRIC VIEW

*NOTE: Contractor shall verify these Dimensions Prior to Fabrication of Uprights.

## SPAN SIGN STRUCTURE NOTES

1) Sign Structure Materials shall be as follows:

| | |
|---|---|
| Upright & Chords (Steel Pipe) | -> API-5L-X42 (42 ksi yield) or ASTM A500 Grade B |
| Webs and Splices (Steel Angles) | -> ASTM A709 Grade 36 |
| Steel Plates | -> ASTM A709 Grade 36 |
| Weld Metal | -> E70XX |
| Bolts (except Anchor Bolts & Alt. Splice Bolts) | -> ASTM A307 or ASTM A325 Type 1 (snug tight) as specified in Plans |
| Anchor Bolts | -> ASTM F1554 Grade 55 |
| Alt. Splice Bolts | -> ASTM A325 Type 1 (slip critical) |
| Nuts for Anchor Bolts | -> ASTM A563 Grade A Heavy Hex |

Note - All Bolts (except Anchor Bolts) shall have Single Self-Locking Nuts or, in lieu thereof, regular nuts with a galvanized 'Palnut' locking nut manufactured by TRW, installed in accordance with the manufacturer's recommendations. Anchor Bolts shall have Double nuts.

2) Reinforcing Steel shall be ASTM A615, Grade 60.

3) Concrete shall be Class IV (Drilled Shaft) with a minimum 28-day compressive strength of 4 ksi for all environmental classifications.

4) Grout shall have a minimum 28-day compressive strength of 5 ksi and shall meet the requirements of Specification Section 934 using procedures detailed in Section 649-6.

5) All welding shall conform to American Welding Society Structural Welding Code (Steel) ANSI/AWS D1.1 (current edition).

6) All Steel items shall be galvanized as follows:

| | |
|---|---|
| All Nuts, Bolts and Washers | -> ASTM A153 Class C or D depending on size |
| All other steel items | -> ASTM A123 |

7) The Structure must be assembled after galvanizing and prior to shipment to the site to assure fit up. It may be disassembled for shipping.

8) Design according to FDOT Structures Manual (current edition).

9) Alternate Designs for this Structure are not allowed.

10) Shop Drawings for this Structure are required and fabrication shall not begin until these Shop Drawings are approved. Shop Drawings shall include the Contractor's field verification of all Upright heights and foundation elevations necessary to insure minimum vertical clearances as per traffic plans. Shop Drawings shall also include anchor bolt orientation with respect to ℄ Truss and the direction of traffic.

11) The foundation for the Sign Structure shall be constructed in accordance with Section 455 of the Specifications except that no payment for the foundation shall be made under Section 455. The cost of providing the foundation shall be included in the pay item for providing the complete Sign Structure. Payment for any incidental items incurred in furnishing and installing this Sign Structure shall be included in the pay item for providing the complete Sign Structure.

12) Except for Anchor Bolts, all bolt hole diameters shall be equal to the bolt diameter plus 1/16", prior to galvanizing. Hole diameters for Anchor Bolts shall not exceed the bolt diameter plus 1/2".

13) See Elevation Drawing for size and location of Sign Panels. Sign Panels shall be aluminum.

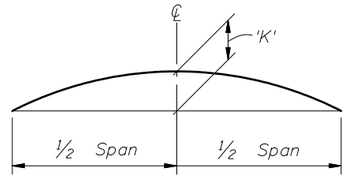
14) Provide a parabolic camber with the maximum upward deflection as called for on the Camber Diagram. Indicate on the Shop Drawings the method to be used to provide required camber. Member dimensions may be altered slightly to provide camber.

15) Chord splices shall be located a minimum distance of 3 Truss Panel lengths apart. Chord splices are either the Standard Splice or the Alternate Splice, and shall not be mixed on a structure. Upright splices are not allowed.

16) Prior to erection, the as built location of the Anchor Bolts shall be surveyed and this information reported to the Engineer.

17) If a grout pad is not installed, vertically place a wire cloth screen between the baseplate and the top of the foundation. Wrap horizontally around the baseplate with a 3" min. lap. The wire cloth shall be galvanized steel standard grade plain weave 2x2 mesh 0.063" dia. wire. The screen shall be attached to the baseplate with stainless steel self-tapping 1/4" screws with stainless steel washers spaced at 9" centers.

NOTE: See Plans for Tables of Span Sign Structure Variables.




CAMBER DIAGRAM

| REVISIONS | | | | | |
|---|---|---|---|---|---|
| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
| 12/04/06 | CBH | AASHTO 2001 LTS-4 Specifications updates. | | | |

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

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# SPAN SIGN STRUCTURE

Interim Date 01/01/07

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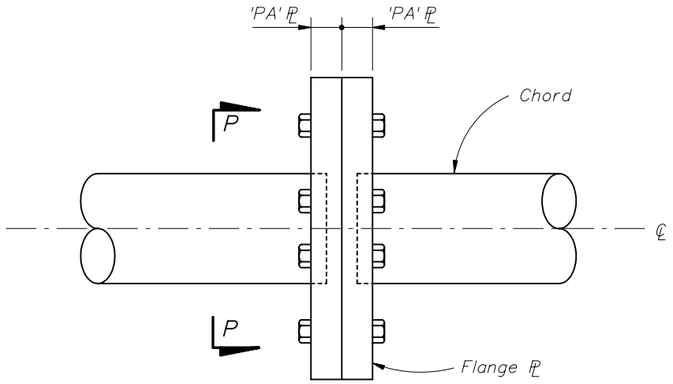
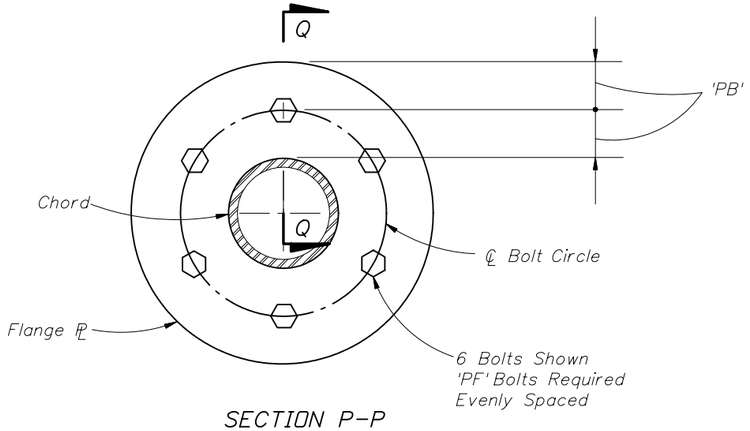
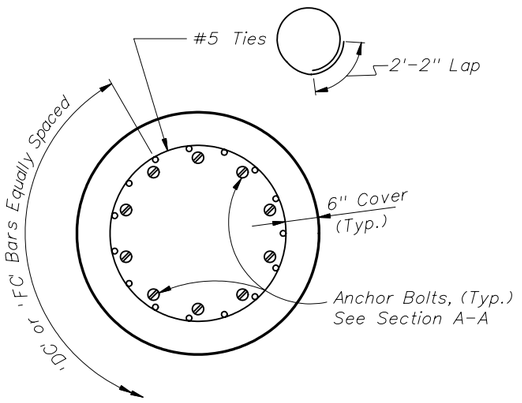


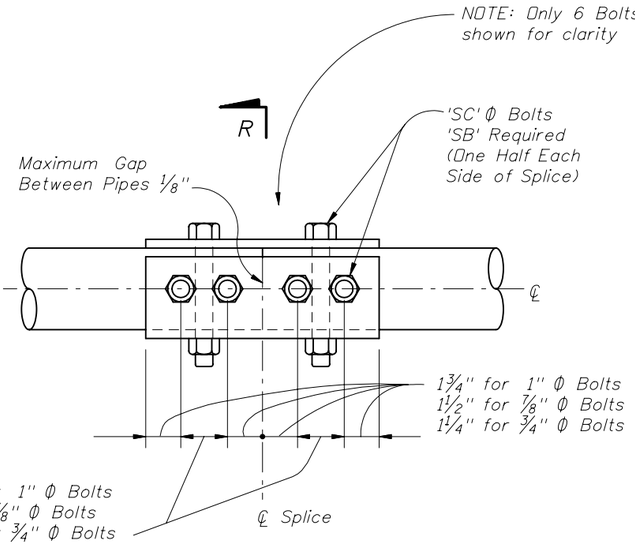

ELEVATION
ALTERNATE SPLICE CONNECTION



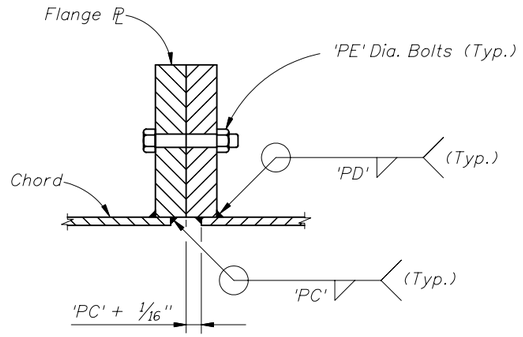

SECTION P-P




PLAN VIEW
DRILLED SHAFT




ELEVATION
SPLICE CONNECTION

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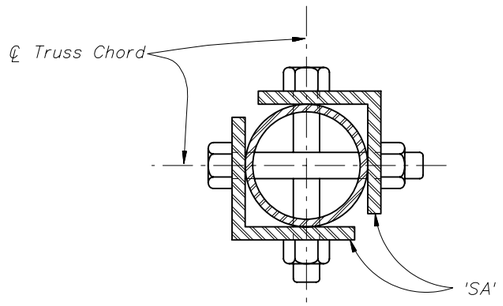
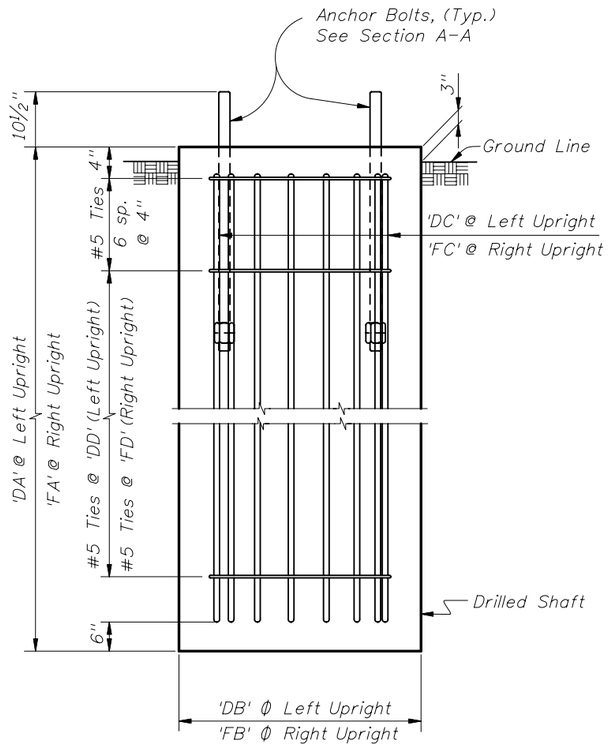



SECTION R-R




ELEVATION
DRILLED SHAFT

| REVISIONS | | | | | |
|---|---|---|---|---|---|
| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
| 12/04/06 | CBH | AASHTO 2001 LTS-4 Specifications updates. | | | |

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# SPAN SIGN STRUCTURE

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