**INDEX FOR STEEL CANTILEVER SIGN TRUSS STANDARDS**

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**ANCHOR-BOLT'NUT'TIGHTENING'PROCEDURE:**

1. **ANCHOR BOLT NOTES:**
   - Steel cantilever sign trusses shall comply with ASTM A53 grade B, type E or F, API 5L grade X42, or API 5L grade X52, whichever is more stringent. The bolts and nuts shall be of the same alloy properties and shall meet the requirements of ASTM A449 type 1 bolts or ASTM F3125 type 1 bolts as specified in the contract documents.
   - Anchor bolts shall be free of any dirt or debris. Properly sized wrenches designed for tightening nuts and anchor bolts shall be used to avoid rotating or other damage to the nuts. Anchor bolts shall not be used on the opposite side of the structure.
   - Galvanized steel fasteners shall be free of any dirt or debris. Properly sized wrenches designed for tightening nuts and anchor bolts shall be used to avoid rotating or other damage to the nuts. Galvanized steel fasteners shall be in accordance with ASTM A325, ASTM A490, and ASTM A563.

2. **GENERAL NOTES:**
   - All steel cantilever truss sign supports are designed for 50 psf live load, with pressure on support members and 50 psf live load on signs. Ship drawings shall be submitted to the contractor in accordance with Article 4187.01, C, 2 of the standard specifications.
   - Clear distance from face of concrete to the nearest reinforcing bar shall be 2’ unless otherwise shown.
   - Keyway dimensions shown on the plans are based on normal dimensions unless stated otherwise. In addition, the level used on the keyway shall be limited to one level from vertical.
   - Steel cantilever sign trusses shall not be used on bridges without the approval of the bridge designer and structural engineer.

**STRUCTURAL ALIGNMENT/TOLERANCE NOTES:**

- The precise installation and alignment of all components of the cantilever sign truss and its support shall be considered essential. The contractor shall submit documentation to the engineer showing that the various components have been measured and at least the tolerances listed below.
- 1) All of the anchor bolts shall be plumb within 1/2 inch per foot from vertical.
- 2) Anchor bolts shall be plumb within 1/2 inch per foot of vertical in two perpendicular directions.
- 3) All anchor bolts shall be plumb within 1/2 inch per foot of horizontal and the vertical lines between anchor bolts shall be plumb within 1/2 inch per foot of vertical.

**SPECIFICATIONS:**

- Design-Material specifications for structural supports for highway signs, luminaires, and traffic signal series of 2015.
- Construction-DOT, Department of Transportation, standard specifications for highway and bridge construction series of 2015.
- SDSSD-Signs, dusk signs, luminaires, and traffic signal series of 2015.
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**DESIGN STRESSES:**

- Design stresses for materials are in accordance with AASHTO LRFD Bridge Design Specifications series of 2014, Section 5, Grade 100.
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