IOWA DEPARTMENT OF TRANSPORTATION

To Office: Bridges and Structures

Attention: All Employees

From: Gary Novey

Office: Bridges and Structures

Date: September 1, 2014

Ref No.: 521.1

Subject: Revision of the English Steel Overhead Sign Truss Standards listed below.

Electronic copies are available in the following Office of Bridges and Structures standard directory: W:\Highway\Bridge\Standards\Bridges and on the Internet:

http://www.iowadot.gov/bridge/standard.htm

The following Steel Overhead Sign Truss Standards were revised as noted below.

SOST-01-11:

- Deleted the following General Notes: “All steel reinforcing bars to be Grade 60.” and “All concrete to be Class “C” structural concrete with F’c = 4.0 ksi.” These notes are redundant as this information is stated in the Design Stresses note.

SOST-06-11:

- Changed “footing” to “foundation” in DMS truss notes to improve consistency of terminology.

SOST-07-11:

- Changed “footing” to “foundation” in DMS truss notes to improve consistency of terminology.

SOST-08-11:

- Modified gusset plate connection Details A, B, and D and added clarification note stating that the 2” gap between the end of diagonals and the chords may be reduced to 1-13/16”. This will facilitate the use of 8”-wide bar stock to fabricate the gusset plates.
- Modified Detail E and added clarification note specifying a 2-1/2” gap between the end of the interior diagonal and the chord for gusset connections at the end of each truss unit.

SOST-09-11:

- Modified depiction of interior diagonal at end of truss to show correct inclination of diagonal.

SOST-10-11:

- Modified depiction of interior diagonal at end of truss to show correct inclination of diagonal.
- Increased hole diameter of chord splice flange plate from 6-11/16” φ to 6-3/4” φ to improve constructability.
• Increased outside diameter of chord stop ring from 7” φ to 8” φ.

**SOST-11-11:**

• Modified depiction of interior diagonals in typical sign panel section to show correct inclination of diagonals.

**SOST-12-11:**

• Changed type and gage of holes in W6x20 for clip angle bolts to improve constructability due to width variances in runway grating. 9/16” φ holes were changed to 9/16” x 1” slotted holes. The hole gage was increased from 2” to 3-1/2”.

**SOST-13-11:**

• Changed runway support bracket dimensions to provide adequate spacing between slotted holes for clip angle bolts and holes for post base plate anchorage bolts.

• Changed U-bolt bend diameter to improve constructability.

**SOST-17-11:**

• Changed “footing” to “foundation” in Concrete Placement Quantities notes to improve consistency of terminology.

• Added note to clarify that foundation design is based on a maximum soil surcharge depth of 6’-0.

For any questions, please check with Stuart Nielsen or Thayne Sorenson.

GAN/ssn