

**KANSAS DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION TO THE
STANDARD SPECIFICATIONS, EDITION 2007**

SECTION 722

SIGN STRUCTURES AND BRIDGE MOUNTED SIGN ATTACHMENTS

Page 700-93, subsection 722.1. All bid items should have a unit of Each.

Page 700-94, delete subsection 722.3c. and replace with the following:

c. Sign Structures.

(1) Bolted Joint Connections. Before assembling the sign structures, use a soft wire brush to clean the contact surfaces of the bolted connections. Remove all corrosion and coatings, except galvanizing. Wipe the cleaned contact surfaces with rags soaked with acetone, syol or toluol. Remove excess solvent from the contact surfaces using clean, dry rags.

Assemble the sign structures according to the Contract Documents. Seal all bolted joints immediately, using a sealant intended for this purpose, and applied according to the sealant manufacturer's recommendations.

(2) Attachment to Anchor Bolts. Place the sign structure with anchor plate on the anchor bolts. After all signs are mounted on the structure, and the sign pole (or bridge support) is plumb, proceed with anchor bolt tightening procedures. Fill the gap between the top of the footing and the bottom of the anchor plate with concrete grout according to the details in the Contract Documents.

(3) All Sign Structures.

- Do not use a pipe wrench to tighten nuts on Sign Structures;
- Use only a box end or socket wrench to snug tighten nuts;
- Maintain a minimum dimension of 6 inches from the top of foundation to finished grade;
- With approval of the Engineer, repair any marring of the galvanizing caused while lifting the structure into place;
- Submit specifications for the hydraulic wrench to the Construction Engineer (who will contact the Signing and Lighting Engineer) for approval; and
- If the four refusal maximum is exceeded on any DTI, discontinue tightening and contact the State Bridge Office;
- Grade the surrounding area to drain away from the structure.

(4) Existing Sign Structures. Verify the existing anchors will extend a minimum of one thread above the top tightened nut in the final condition. Do not damage the existing anchors during the removal of the existing hardware. Clean the threads of all rust and lubricate with an approved wax, prior to placing the new hardware.

Install DTIs on each anchor. Install a hardened washer on each anchor, if required. Use new hardware galvanized according to **SECTION 1616**. Verify the assembly (leveling nut, hardened washer(s), tower base plate, DTI, top nut) is in a snug tight condition before final tightening begins. Using the approved hydraulic wrench, tighten each nut to achieve a minimum of three refusals of the 0.005 gauge. Do not exceed four refusals of the 0.005 gauge. After tightening, score the remaining threads.

(5) New Sign Structures. Construct the elements of the structure according to the Contract Documents. Threads of the anchors shall be plumb and free of any construction debris.

Install DTIs on each anchor. Install a hardened washer on each anchor, if required. Use hardware galvanized according to **SECTION 1616**. Verify the assembly (leveling nut, hardened washer(s), tower base plate, DTI, top nut) is in a snug tight condition before final tightening begins. Using the approved hydraulic wrench tighten each nut to achieve a minimum of three refusals of the 0.005 gauge. Do not exceed four refusals of the 0.005 gauge. After tightening, score the remaining threads.

(6) Overhead Truss. In erection of the truss, allow the dead load deflection to take place before fully tightening all the connectors. Fully tighten the vertical portion which clamps the column in all corners, but tighten

only the top of 1 end of the horizontal portion of the truss-to-end-support connector while the truss is fully suspended from the crane. The rest of the truss-to-end supports shall be fully tightened after the dead load of the truss is being supported by the connectors, but still attached to the crane with a slack line. Erect the signs within 24 hours of erecting the truss.

(7) Dissimilar Materials. Whenever dissimilar materials are to be in permanent contact, provide an insulating barrier of alkali resistant asphalt paint or equivalent.

Page 700-95, subsection 722.4. Delete the first paragraph.

11-18-10 BD(BS) (MAI)
Apr-11 Letting