

**THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY**

**February 3, 2015**

**CONSTRUCTION BULLETIN No. 15-01**

**SUBJECT: Aluminum Sign Panel Connections**

Tollway Standard Drawing F-10, Miscellaneous Details and Aluminum Sign Panels has been revised as follows:


Section C-C, Type B sign panel extrusion connection detail has been revised as follows:  
“ 7/16” x 7/8” slotted holes with 3/8” x 3/4” stainless steel stitch bolt and locknut, with 3/8” dia. x 3/32” thick, aluminum flat washer under the bolt head and nut.”

Post Clip Bolt, Stainless Steel note has been revised as follows:  
“A 3/8” dia. x 3/32” thick, aluminum flat washer shall be used under each nut to prevent gouging of the clip.”

Tollway Recurring Special Provision for Sign Installation has been revised as follows:

Materials. “Post clip bolts and sign panel stitch bolts shall be stainless steel conforming to ASTM A193, Class I Type 304, Grade 33.”

Construction Engineers (CM) are hereby directed to immediately utilize this revised Standard Drawing and Tollway Recurring Special Provision for all contracts that have sign panel installations.

  
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Paul D. Kovacs, P.E.  
Chief Engineer

02/03/15  
Date



## **SIGN INSTALLATION (Tollway Recurring)**

**Effective: April 2, 2007**

**Revised: February 03, 2015**

### **DESCRIPTION**

This work shall consist of loading signs fabricated by the Tollway at the Tollway's Sign Shop in Naperville, Illinois, transporting them to the job site and mounting them on overhead structures, bridge mount or ground mount supports, wood posts, telescoping steel posts and/or overhead canopy structures at toll plazas as shown in the Plans and herein specified. Also included is the transportation, storage, and reinstallation of existing sign panels.

The three types of sign installations are defined by surface area in accordance with the following descriptions:

TYPE 1	9 square feet or less
TYPE 2	Greater than 9 square feet and less than 24 square feet
TYPE 3	24 square feet or greater

### **MATERIALS**

Post clip bolts and sign panel stitch bolts shall be stainless steel conforming to ASTM A193, Class I Type 304, Grade 33. Aluminum flat washers shall conform to ASTM B209, Alloy 2024-T4 and shall be used under each nut to prevent gouging of the clip. Elastic stop nuts, shall be stainless steel conforming to ASTM A194 (AASHTO M292), Grade B8. Aluminum hardware for sign mounting panels shall conform to ASTM B211, Alloy 2024-T4.

### **CONSTRUCTION METHODS**

New signs included with this provision will be fabricated in the Tollway's sign shop in Naperville, Illinois. The Contractor shall obtain and load the signs on his hauling units at the sign shop and transport them to the various erection sites.

For signs to be re-used, the Contractor shall load, transport, and re-erect the signs in the new locations as shown in the Plans and directed by the Engineer. If interim storage of such signs is necessary for any reason the Contractor shall store the signs and be solely responsible for them until they are acceptably re-erected.

The Contractor shall assemble sign sections in the field as needed, erect and attach the signs to the supports. The Contractor shall supply hardware for attaching the signs to the supports. Extreme care shall be used in tightening elastic stop nuts to avoid excessive torque and cracking. Any nuts so damaged during installation shall be replaced.

The Contractor shall exercise due care in handling the signs during all phases of this operation. Any sign that is damaged due to the Contractor's handling or operations shall be repaired by the Contractor to the satisfaction of the Tollway, at no additional cost to the Tollway, and without cause for the Contractor claiming delay.

Any sign that is lost or damaged beyond use shall be replaced by the Contractor at no additional cost to the Tollway and without cause for the Contractor claiming delay.

**METHOD of MEASUREMENT**

This work will be measured for payment in square feet of the actual total surface area of sign faces, including the edge molding, of all signs erected and accepted.

**BASIS of PAYMENT**

This work will be paid at the contract unit price per square foot for SIGN INSTALLATION, of the type specified, complete in place, accepted, and measured as specified, which payment shall constitute full compensation for loading signs fabricated by the Tollway at the Tollway's Sign Shop in Naperville, Illinois, transporting signs to the job site, assembling signs in the field and mounting them on overhead structures, bridge mount or ground mount supports; wood posts, telescoping steel posts and/or overhead canopy structures at toll plazas; transporting certain existing signs to new locations designated in the Plans and mounting them on ground mount supports; and furnishing all hardware needed to erect signs and install edge moldings, and for all labor, equipment, tools and incidentals necessary to complete the work as specified.

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Pay Item Number	Designation	Unit of Measure
JT720100	SIGN INSTALLATION, TYPE 1	SQ FT
JT720110	SIGN INSTALLATION, TYPE 2	SQ FT
JT720120	SIGN INSTALLATION, TYPE 3	SQ FT