



**SPECIAL PROVISIONS
FOR
TRAFFIC SIGNAL INSTALLATION SPECIAL**

**Scott County
IM-NHS-074-1(206)5--03-82**

**Effective Date
October 16, 2018**

THE STANDARD SPECIFICATIONS, SERIES 2015, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

150440.01 DESCRIPTION.

This work shall consist of all labor, materials, and equipment necessary to install the two special traffic signal heads (heads 61 and 62) at the intersection of US 67 (Grant Street) and the I-74 Westbound Ramps.

150440.02 MATERIALS.

- A.** Obtain the traffic signal heads from the City of Bettendorf; procurement of new traffic signal heads is not required. See N.6 for all other materials required for Traffic Signal Installation Special.
- B.** Present all materials, mounting assembly, locations, connections, and fastening methods to the Engineer for approval prior to the installation of the traffic signal heads or conduit.

150440.03 CONSTRUCTION

- A.** Install 2 inch PVC conduit from the handhole located adjacent to the existing traffic signal controller in the southwest corner of the intersection, to the base of the nearest US 67 bridge pier. Then route the conduit vertically along the bridge pier to the base of the easternmost bridge girder. Securely attach the conduit to the bridge pier. Submit the method of attachment to the Engineer for review and approval prior to installation. Then route the conduit along the western side of the exterior US 67 bridge girder, on top of the bottom flange to the traffic signal heads, as per detail in the plans. Secure the conduit to the bridge girder using beam clamps preventing movement. No holes, welds, or modification of the bridge girder will be allowed. Submit the method of attachment to the Engineer for review and approval prior to installation.

- B. Mount the traffic signal head to a 4 inch steel conduit, using an Astro-Brac style bracket, as per detail in the plans.
- C. Securely hold the 4 inch steel conduit in place by a slotted steel bar assembly mounted to the bottom of the bridge girder, preventing movement. Construct the slotted steel bar assembly as shown in the plans. Submit exact lengths of slotted steel bar and connections between horizontal and vertical bars to the Engineer for approval.
- D. Securely attach the slotted steel bar assembly using beam clamps to the existing exterior bridge girder, preventing all movement. No holes, welds, or modification of the bridge girder will be allowed. Submit the details of the slotted steel bar assembly, including the method of attachment of the assembly to the bridge girder for each signal head, to the Engineer for review and approval prior to installation.
- E. Adjust the height of the steel bar assembly to keep the bottom of each traffic signal head at or above the minimum roadway clearance of 16.5 feet.
- F. Connect the traffic signal cable from the 2 inch PVC conduit to the traffic signal head by a weatherproof flexible plastic coated conduit. Submit the type of conduit and connections to the Engineer for approval prior to installation.

150440.04 METHOD OF MEASUREMENT.

This work will not be paid for separately, but shall be included in the contract unit price Lump Sum for Traffic Signal Installation Special.

150440.05 BASIS OF PAYMENT.

The price shall be payment in full for all labor, equipment, and materials required to furnish, install, and test the operation described above, including traffic signal cable as noted in plans.