

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

Add a new SECTION to DIVISION 700:

BRIDGE DECK DRAIN EXTENSION

1.0 DESCRIPTION

Provide material for and install bridge deck drain extensions as shown in the Contract Documents.

<u>BID ITEMS</u>	<u>UNIT</u>
Bridge Deck Drain Extension	Each

2.0 MATERIALS

Provide materials that comply with the applicable requirements.

Structural Steel	DIVISION 1600
Anchor Bolts for Structural Uses	DIVISION 1600
Steel Fasteners	DIVISION 1600

PVC Pipe. Provide polyvinyl chloride (PVC) for bridge drainage systems that comply with ASTM D 1785 Schedule 80 polyvinyl chloride (PVC) pipe (Bridge Drainage Systems).

If approved by the Engineer, solvent-welded flanged couplings are allowed to connect 2 pieces of PVC pipe. Provide and use all required solvents and cleaners according to the pipe manufacturer's recommendations.

The Engineer will accept the PVC pipe on receipt and approval of a Type D certification as specified in **DIVISION 2600** and visual inspection for condition and dimensional requirements.

3.0 CONSTRUCTION REQUIREMENTS

Install angles equally spaced around the perimeter of PVC pipe using two 1 3/4 inch long by 1/2 inch diameter bolts with a flat washer and lock nut. Place the bolt head on the inside of the PVC pipe.

Anchor the steel angles to the bottom of the deck using a concrete hex nut sleeve anchor. Use a 5/8 inch diameter sleeve anchor with an effective anchor length of 2 1/2 inches and a bolt with a 1/2 inch diameter. Embed all anchors a minimum of 2 inches into the bottom of the concrete. Drill and place the anchors in accordance with the anchor manufacturer's recommendations.

Plumb the completed drain extension and place the PVC pipe flush against the bottom of the concrete.

Use PVC pipe lengths that extend a minimum of 12 inches below the bottom of the beam, girder, chord or slab. If the beam, girder, chord or slab is not of uniform depth, vary the length of each extension to provide the 12 inch minimum.

4.0 MEASUREMENT AND PAYMENT

The Engineer will measure each bridge deck drain extension.

Payment for "Bridge Deck Drain Extension" at the contract unit price will be full compensation for the specified work.