**TYPICAL HOOK BOLT DETAILS**

**TYPE E JOINTS**

**PAVEMENT SECTION**

**ALTERNATE HOOK BOLT**

- Bolt to be used for forming only.
- 45° Countersink
- 1/16" Deep
- 5/16" Diameter
- 5/8" Length

See Alternate Hook Bolt for Slip-Film Paving

**SIDE FORM**

**OUTSIDE DIAMETER**

- 6" min.

**Trapezoidal Key**

(J Bolt Shown)

**ALTERNATE (HALF-ROUND) KEY**

(Alternate Hook Bolt Shown)

- Bolt to be used for forming only.
- 4 7/8" min.

**SIDE FORM**

**OUTSIDE DIAMETER**

- 6" min.

**NOTES**

Tie bolts shall meet the requirements of Section 709.7 of the Specifications.

Tie bolts shall be placed on 30° centers (max.)

Tie bolts shall be placed 15° from each end of form.

Metal channel shall run the full length of form.

5/8" diameter tie bars 30° long, placed longitudinally on 30° centers (max.) and centered across the joint or pavement edge may be used in place of the bolt assemblies.

The longitudinal tie bolt assembly for slip-form paving shall consist of one sleeve nut, one 8" long hook bolt or J bolt, and 12" long alternate hook bolt. As an initial step in installing this assembly, the 12" long alternate hook bolt, with sleeve nut attached, shall be positioned in the proper location in the pavement by appropriate slip-form paving equipment.

Typical tie bolt assemblies are shown herein. Minor variations in details and dimensional tolerances are permitted; however, minimum values specified herein shall be complied with.

All tie bars and tie bolt assemblies shall be epoxy coated in accordance with section 709.1 of the Standard Specifications.

**REVISION STANDARD DETAIL**

**LONGITUDINAL TIE BOLT ASSEMBLY**

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STANDARD SHEET PFE3

PREPARED: 1/26/12
CHECKED: 2/17/12
APPROVED: 4/9/12

SIGNATURE

PREPARED:
CHECKED:
APPROVED: