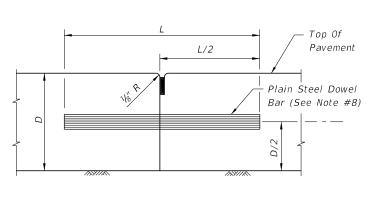


Preformed Joint Filler (See Note #6) Top Of Pavement L/2 Plain Steel Dowel Bar (See Note #7) Metal Or 0/2 Plastic Cap 12" Sheet Metal Bottom Approved Dowel Strip (See Note #8) Support And Spacer



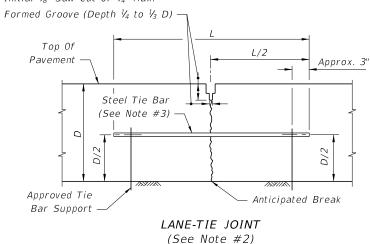
NOTES:

- 1. For joint seal dimensions see Sheet 2.
- 2. For slabs poured simultaneously, tie bars may be inserted in the plastic concrete by means approved by the Engineer.
- 3. For Longitudinal Joints:
- A. Tie bars are deformed #4 or #5 reinforcing steel bars meeting the requirements of Specifications, Section 931.
- B. Provide a standard load transfer tied joint with #4 bars 25" in length at 24" spacing or #5 bars 30" in length at 38" spacing.
- 4. Transverse joints are to be spaced at a maximum of 15'. Dowels are required at all transverse joints unless otherwise noted in the plans.
- 5. Expansion joints to be placed on approaches to bridges, at street intersections and other locations indicated in the plans.
- 6. Punch clean holes in preformed joint filler greater than bar diameter.
- 7. Coat and lubricate plain steel dowel bars in accordance with Specifications, Section 350.
- 8. Sheet metal bottom strips in accordance with Specifications, Section 931.

DESCRIPTION:

BUTT CONSTRUCTION JOINT

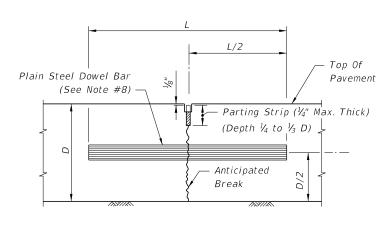
Initial 1/8" Saw Cut Or 1/4" Max.



=LONGITUDINAL JOINTS=

EXPANSION JOINT

BUTT CONSTRUCTION JOINT (See Note #6) (Used At Discountinance Of Work)



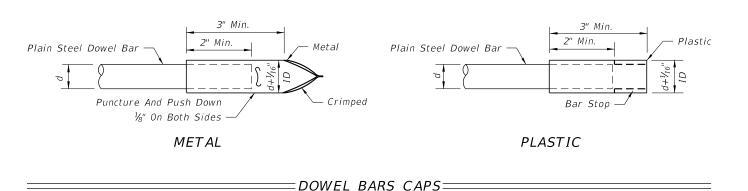
CONTRACTION JOINT (Vibro Case Method)

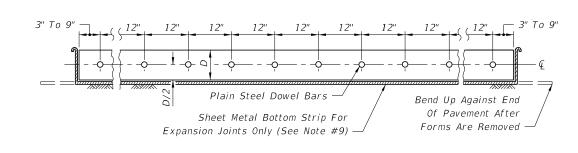
L/2 1/8" Initial Cut (Depth 1/4 to 1/3 D) Top Of Plain Steel Dowel Bar Pavement (See Note #8) Anticipated Break

> CONTRACTION JOINT (Sawed Method)

TRANSVERSE JOINTS=

DOWELS (LENGTH 18")				
Pavement Thickness "D"	Diameter			
6"-6½"	3/4"			
7"-8½"	1"			
9"-10½"	1 ½"			
≥11"	11/2"			





DOWEL BAR LAYOUT

REVISION 01/01/16

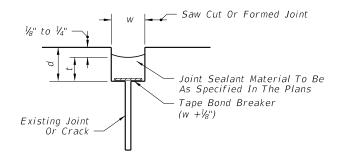
FDOT

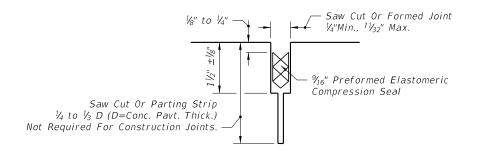
FY 2017-18 DESIGN STANDARDS

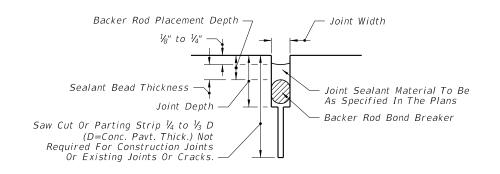
CONCRETE PAVEMENT JOINTS

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SHEET NO. 1 of 4







Note: Dimension w will be shown in the plans or established by the Engineer based on field conditions. Dimension d will be constructed so that the shape factor w/t has a maximum value of 2.0 and a minimum value of 1.0.

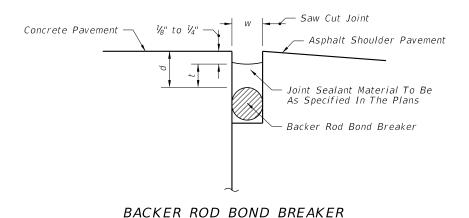
FOR NEW PROJECTS PREFORMED ELASTOMERIC COMPRESSION SEAL

FOR NEW AND REHABILITATION PROJECTS BACKER ROD BOND BREAKER

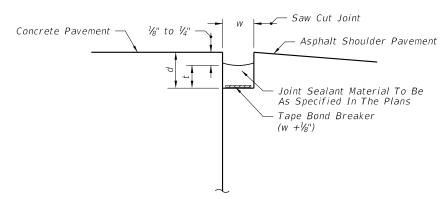
FOR REHABILITATION PROJECTS TAPE BOND BREAKER

CONCRETE-CONCRETE JOINTS

 $d = w = \frac{3}{4}$ " Unless Specified Otherwise In The Plans



 $d = w = \frac{3}{4}$ " Unless Specified Otherwise In The Plans



TAPE BOND BREAKER

FOR NEW AND REHABILITATION PROJECTS; EITHER TAPE OR BACKER ROD BOND BREAKER REQUIRED; SHOULDER MUST BE REPAIRED IF PROPER JOINT SHAPE CAN NOT BE ATTAINED

CONCRETE-ASPHALT SHOULDER JOINTS

JOINT SEAL DIMENSIONS

BACKER ROD BOND BREAKER (CONCRETE-CONCRETE JOINTS)

	JOINT	DIMENSION	S (INCHES)	
JOINT WIDTH	SEALANT	BACKER ROD DIA	MINIMUM	BACKER ROD
	BEAD		JOINT	PLACEMENT
	THICKNESS		DEPTH	DEPTH
1/4	1/4	3/8	1	1/2
3/8	1/4	1/2	1 1/4	1/2
1/2	1/4	5/8	1 1/4	1/2
5/8	5∕ ₁₆	³ / ₄	11/2	9 ₁₆
3/4	3/8	1	1¾	5/8
7/8	7/ ₁₆	11/8	1¾	11/16
1	1/2	1 1/4	2	3/4
>1	1/2	11/4+	2+	3/4

Unless otherwise indicated on the plans the joint width for new construction will be $\frac{1}{4}$ " for construction joints, $\frac{3}{8}$ " for all other joints.

For rehabilitation projects the joint width will be shown on the plans or established by the Engineer based on field conditions.

DESCRIPTION: **REVISION** 07/01/00

FY 2017-18 **DESIGN STANDARDS**

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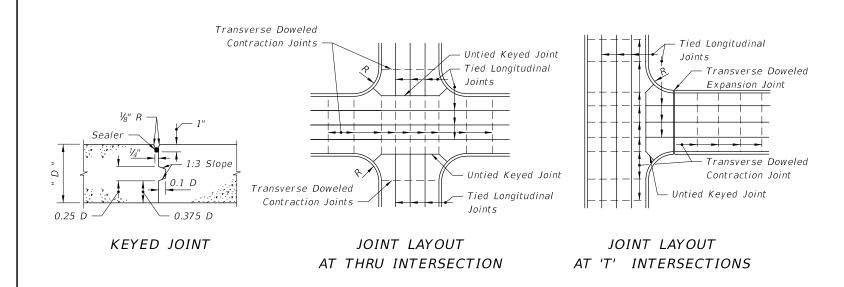
SHEET NO. 2 of 4 Note: After the concrete has set to the extent that the Keyway will retain its shape, the hex bolt and plastic insert shall be removed. The remaining portion of the hook bolt assembly shall be installed immediately prior to placing of concrete in the adjacent lane.

Anchor bolts shall be Grade C in accordance with ASTM A 307.

Threaded sleeves shall develop the full strength of the bolt and meet the material and thread requirements of ASTM A 563.

ALTERNATE KEYWAY AND HOOK BOLT

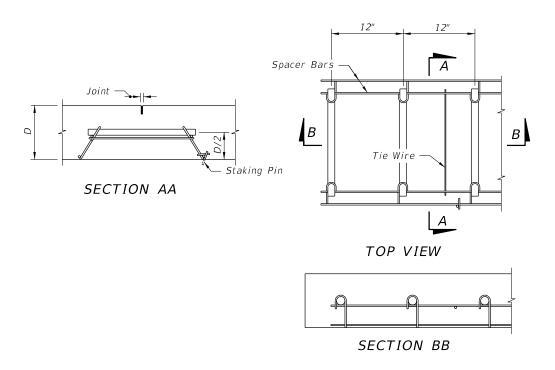
STEEL HOOK BOLT ASSEMBLY



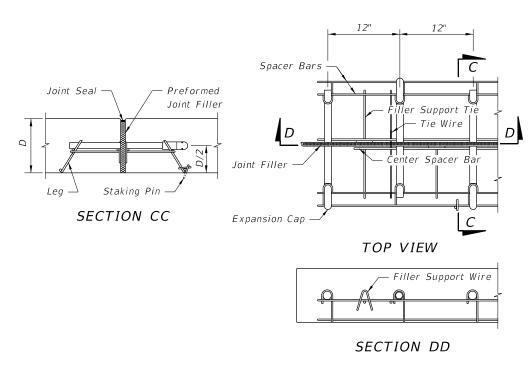
JOINT ARRANGEMENT

NOTES

- 1. Longitudinal joints will not be required for single lane pavement 14' or less in width. For entrance and exit ramp joint details, see Sheet 4.
- 2. Arrangement of longitudinal joints are to be as directed by the Engineer.
- 3. All manholes, meter boxes and other projections into the pavement shall be boxed-in with ½" preformed expansion joint material.



CONTRACTION ASSEMBLY



EXPANSION ASSEMBLY

Note: Proprietary contraction and expansion assemblies may be used. Products shall be introduced to the State Construction Office in accordance with section (C) of the Product Evaluation Procedure.

REVISION 07/01/00

DESCRIPTION:

FY 2017-18 **DESIGN STANDARDS**

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SHEET NO. 3 of 4

