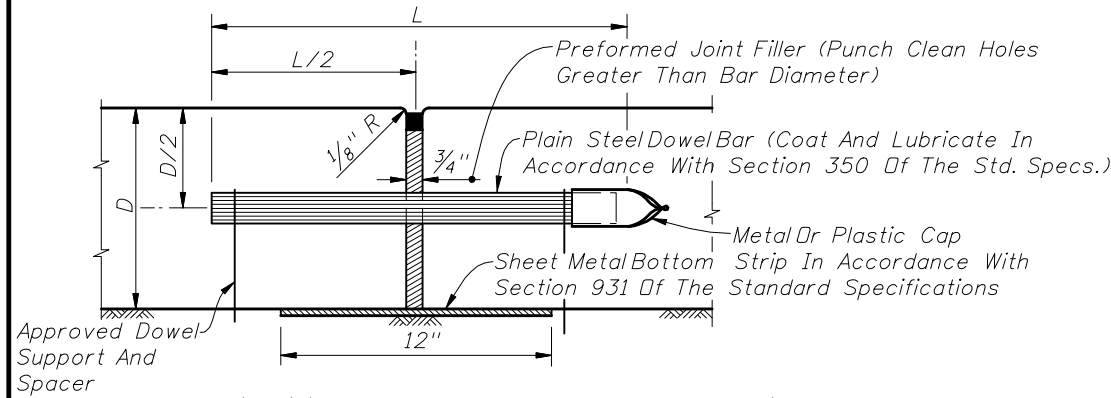
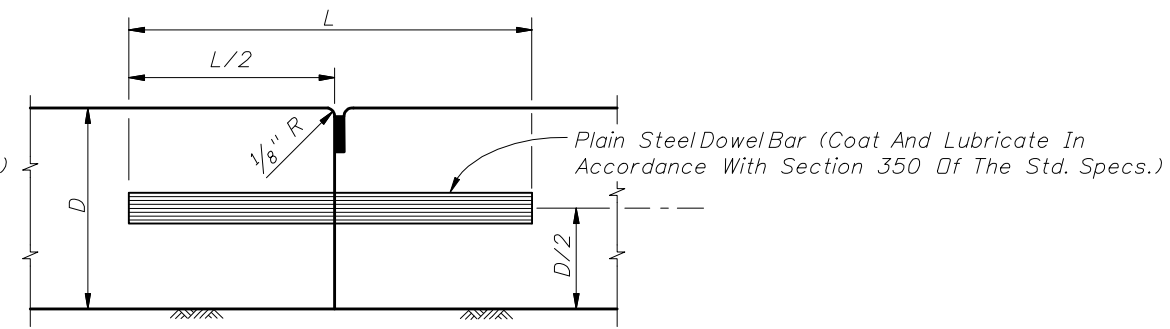


METAL OR PLASTIC CAPS FOR DOWEL BARS

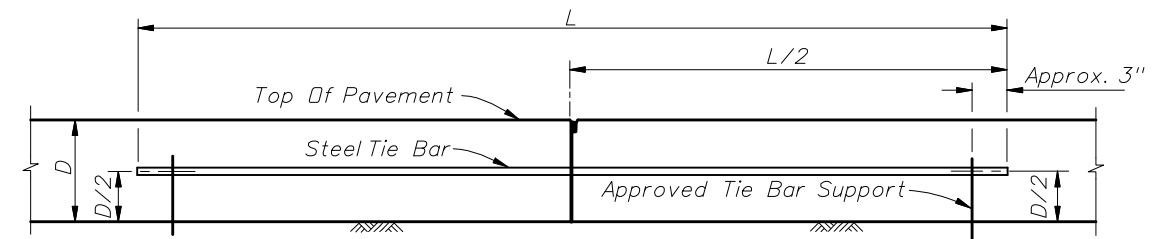


Note: Expansion joints to be placed on approaches to bridges, at street intersections and other locations indicated in detail plans.

TRANSVERSE EXPANSION JOINT

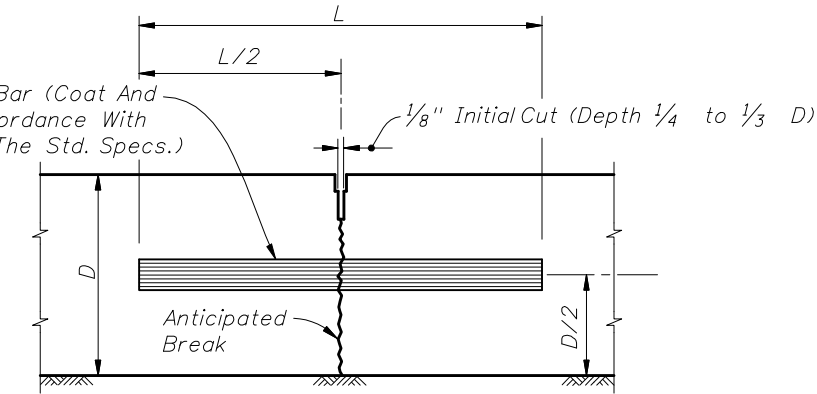
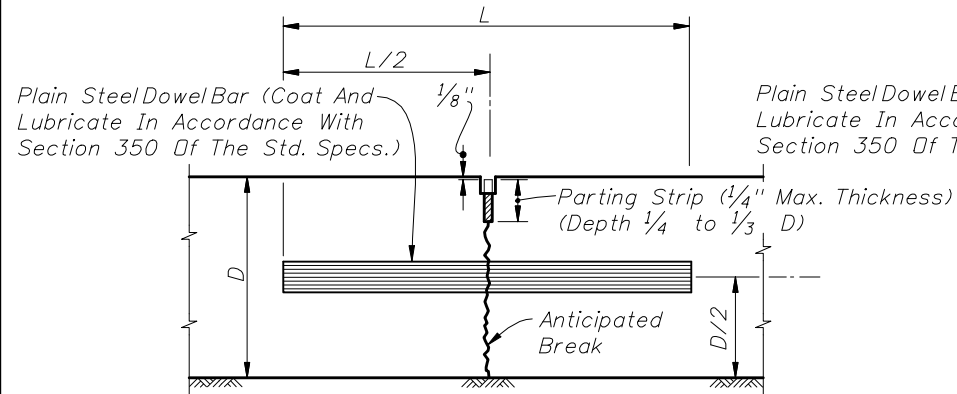


BUTT CONSTRUCTION JOINT TO BE USED AT DISCONTINUANCES OF WORK



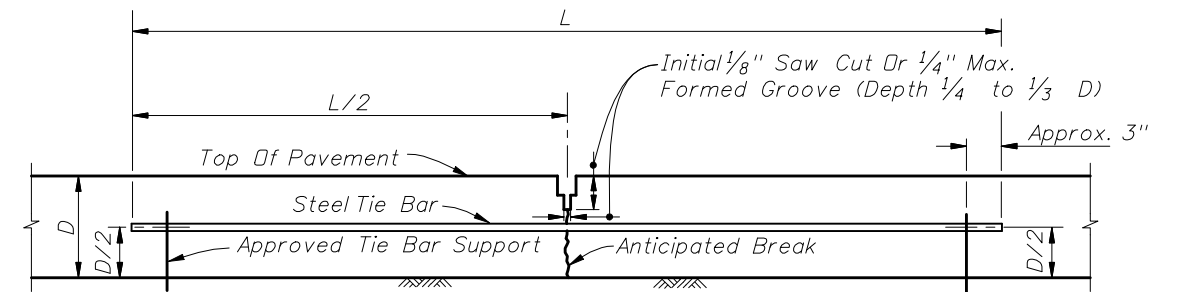
Note: Tie bar spacing shall not exceed 24" at these joints.

LONGITUDINAL BUTT CONSTRUCTION JOINT



TRANSVERSE CONTRACTION JOINT, VIBRO CAST METHOD

TRANSVERSE CONTRACTION JOINT, SAWED METHOD



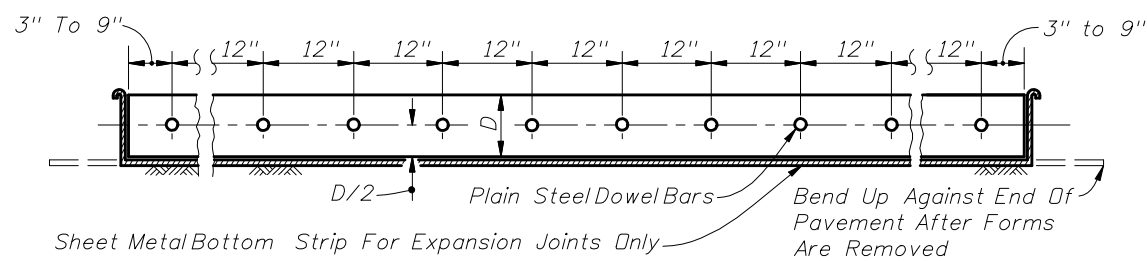
Note: Slabs poured simultaneously. Tie bars may be inserted in the plastic concrete by means approved by the Engineer.

LONGITUDINAL LANE-TIE JOINT

Tie bars are deformed #4 or #5 reinforcing steel bars meeting the requirements of Section 931 of the Standard Specifications.

Provide a standard load transfer tied joint with #4 bars 25" in length at 24" or #5 bars 30" in length at 38" spacing.

LONGITUDINAL JOINTS



DOWEL BAR LAYOUT

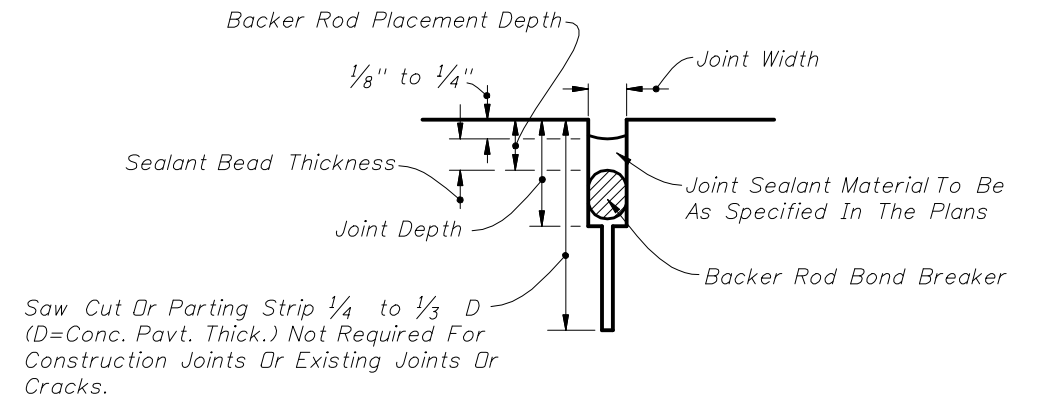
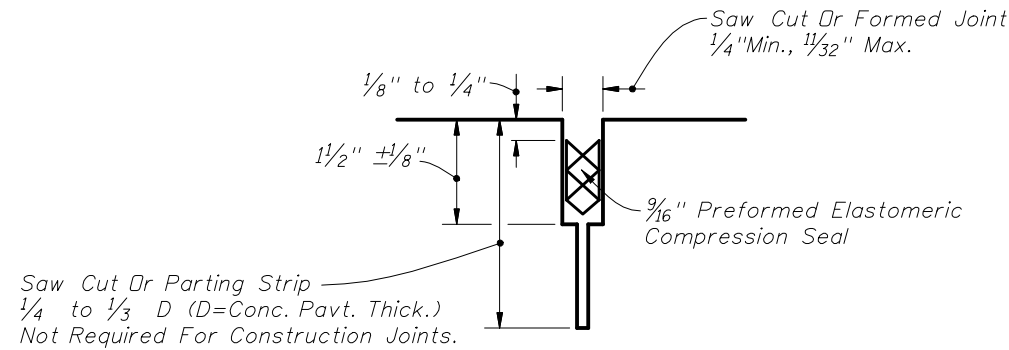
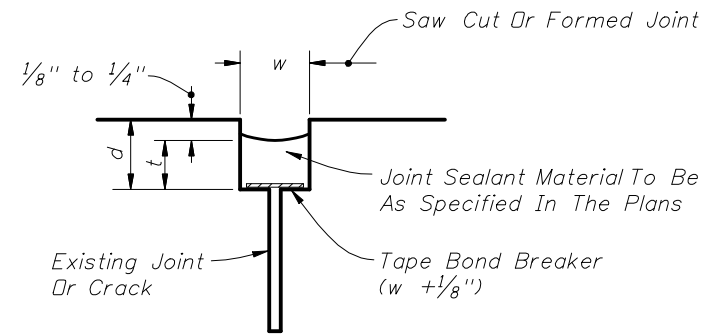
DOWELS (LENGTH 18")	
Pavement Thickness "D"	Diameter
6" - 6 1/2"	3/4"
7" - 8 1/2"	1"
9" - 10 1/2"	1 1/4"
≥ 11"	1 1/2"

TRANSVERSE JOINTS ARE TO BE SPACED AT A MAXIMUM OF 15'. DOWELS ARE REQUIRED AT ALL TRANSVERSE JOINTS UNLESS OTHERWISE NOTED IN PLANS.

TRANSVERSE JOINTS

Note: For joint seal dimensions see Sheet 2.





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 REHABILITATION PROJECTS

TAPE BOND BREAKER

FOR NEW PROJECTS

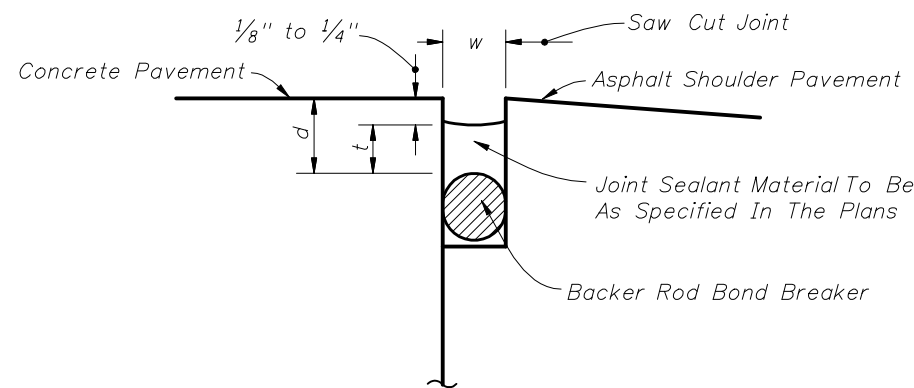
PREFORMED ELASTOMERIC COMPRESSION SEAL

FOR NEW AND REHABILITATION PROJECTS

BACKER ROD BOND BREAKER

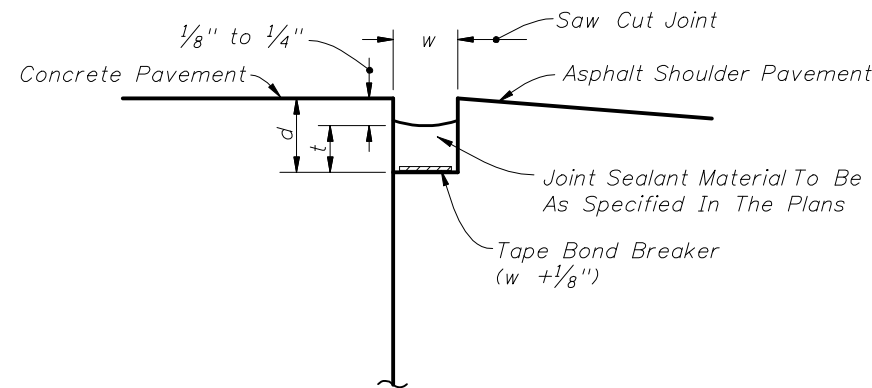
CONCRETE-CONCRETE JOINTS

$d = w = 3/4$ " Unless Specified Otherwise In The Plans



BACKER ROD BOND BREAKER

$d = w = 3/4$ " 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 DIMENSIONS (INCHES)				
JOINT WIDTH	SEALANT BEAD THICKNESS	BACKER ROD DIA.	MINIMUM JOINT DEPTH	BACKER ROD PLACEMENT 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		1 1/2	
	3/8	1	1 3/4	5/8
		1 1/8	1 3/4	
1	1/2	1 1/4	2	
>1	1/2	1 1/4+	2+	

Unless otherwise indicated on the plans the joint width for new construction will be 1/4" for construction joints, 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.

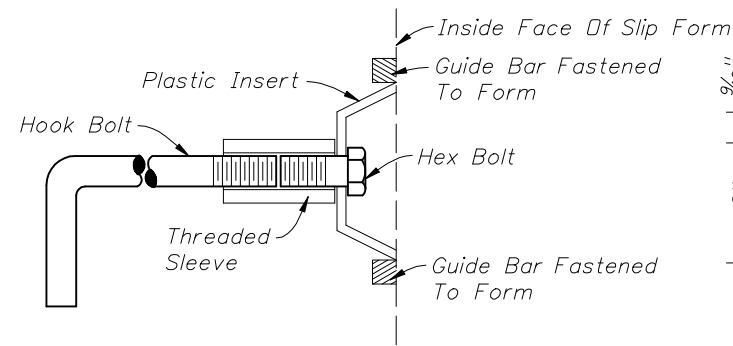


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CONCRETE PAVEMENT JOINTS

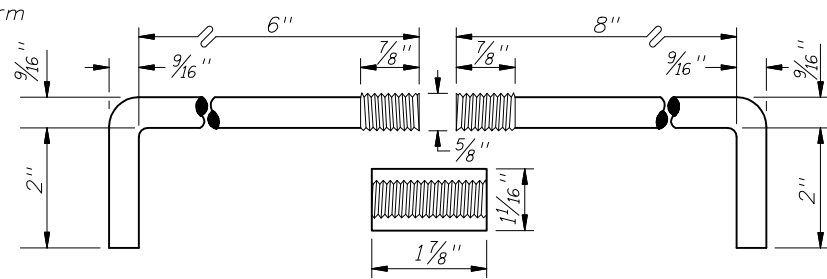
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NOTE: After the concrete has set to the extent that the Keyway will retain its shape, the hex bolt and plastic insert shall be removed. The remaining portion of the hook bolt assembly shall be installed immediately prior to placing of concrete in the adjacent lane.

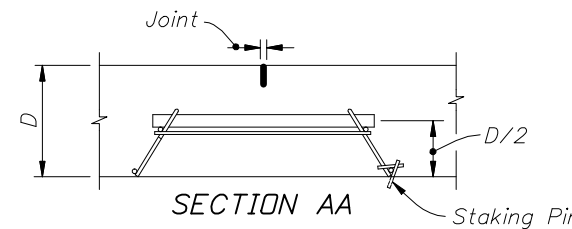
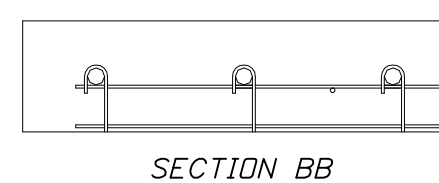
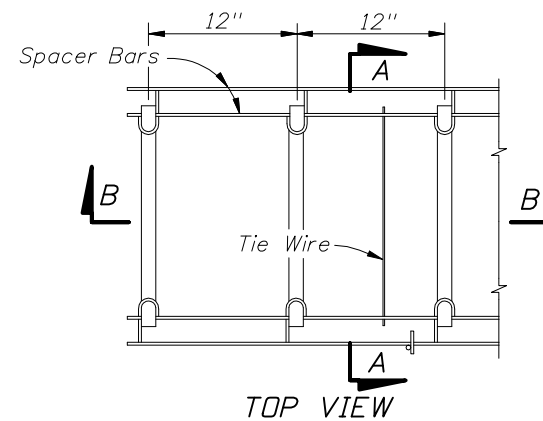
ALTERNATE KEYWAY AND HOOK BOLT



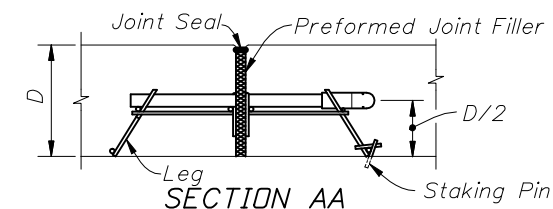
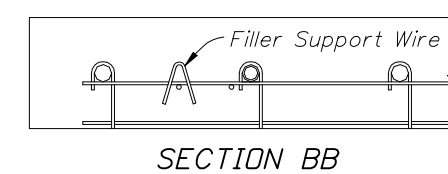
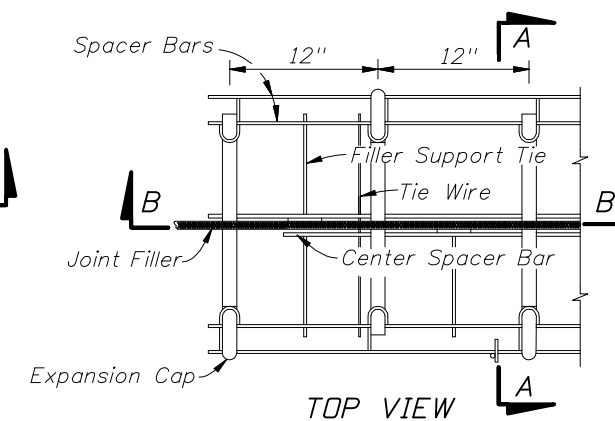
Anchor bolts shall be Grade C in accordance with ASTM A 307.

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

STEEL HOOK BOLT ASSEMBLY

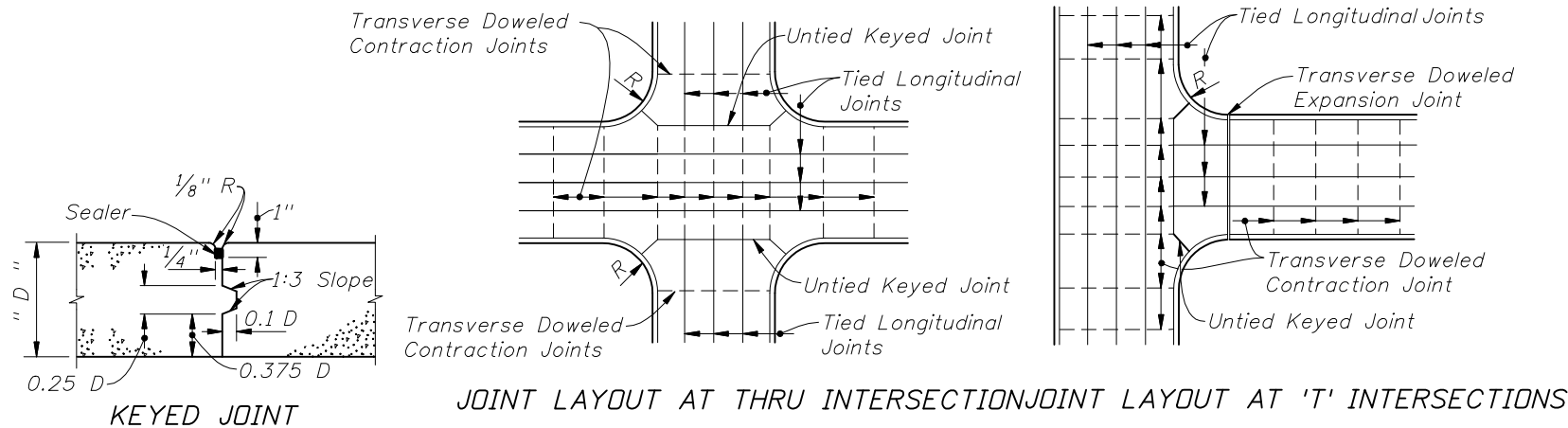


CONTRACTION ASSEMBLY



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.

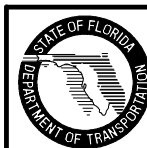


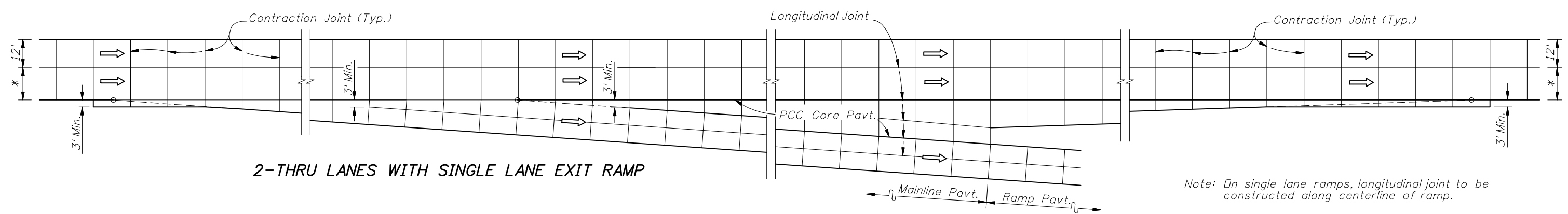
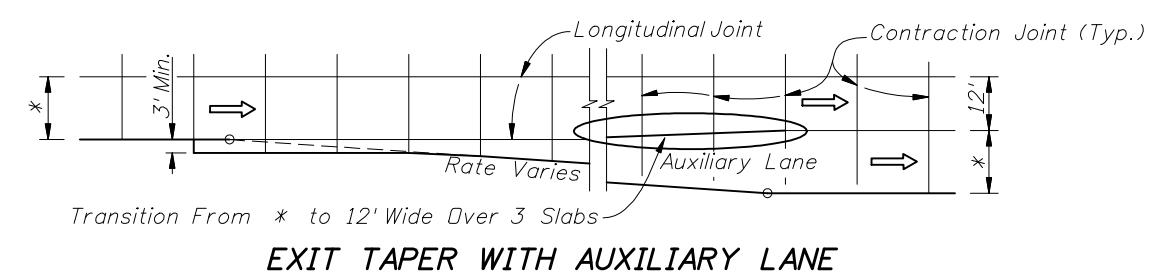
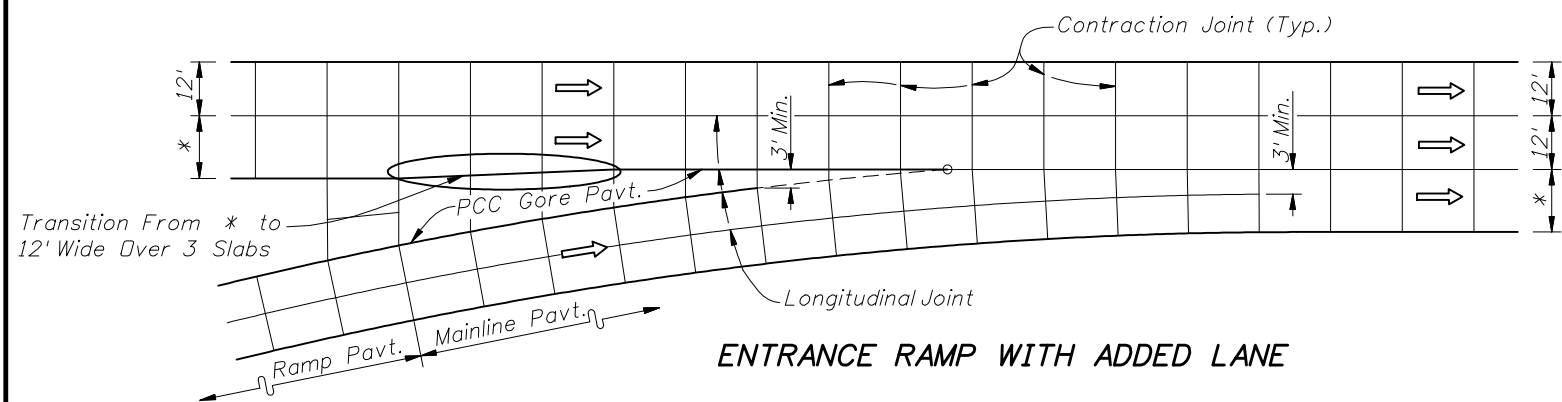
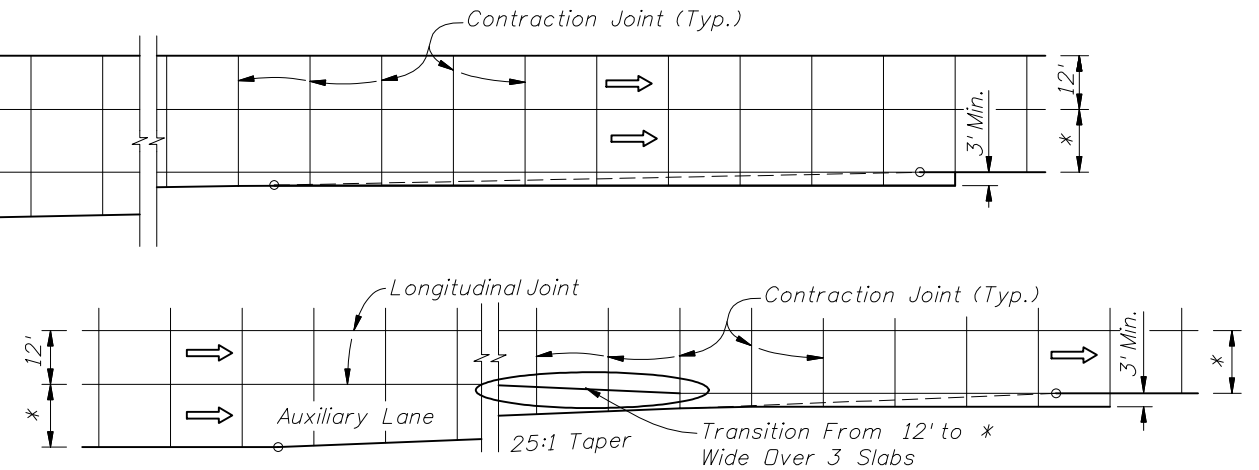
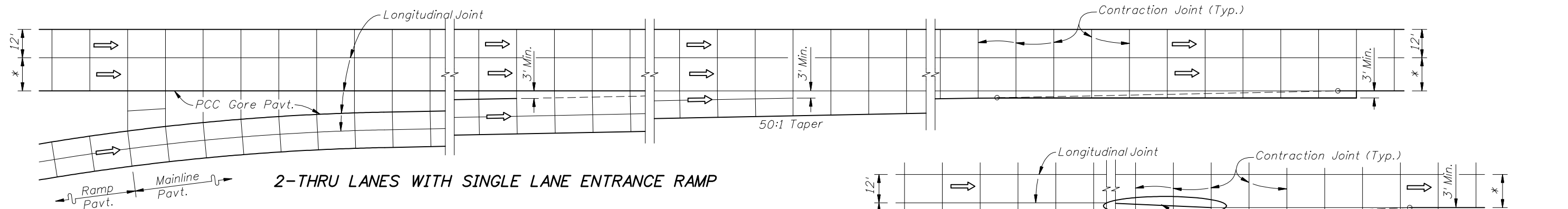
JOINT LAYOUT AT THRU INTERSECTION JOINT LAYOUT AT 'T' INTERSECTIONS

NOTES

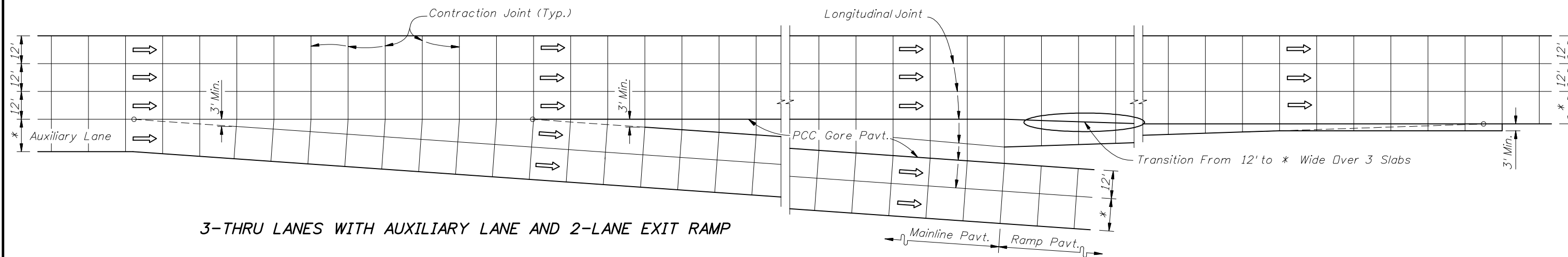
1. Longitudinal joints will not be required for single lane pavement 14' or less in width. For entrance and exit ramp joint details, see Sheet 4 of 4.
2. Arrangement of longitudinal joints are to be as directed by the Engineer.
3. All manholes, meter boxes and other projections into the pavement shall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

JOINT ARRANGEMENT





Note: On single lane ramps, longitudinal joint to be constructed along centerline of ramp.



JOINT LAYOUT AT ENTRANCE AND EXIT RAMP TERMINALS

* 13' with tied Concrete Shoulders or 14' with Asphalt Shoulders.



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CONCRETE PAVEMENT JOINTS

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