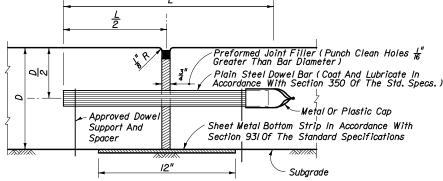
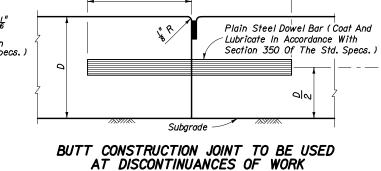


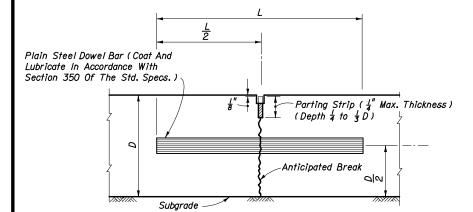
### METAL OR PLASTIC CAPS FOR DOWEL BARS





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

TRANSVERSE EXPANSION JOINT



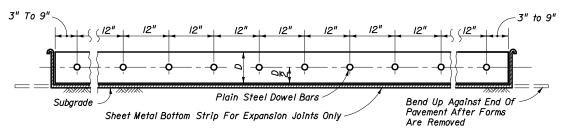
Plain Steel Dowel Bar (Coat And Lubricate In Accordance With Section 350 Of The Std. Specs.)

Anticipated Break

Subgrade

TRANSVERSE CONTRACTION JOINT, VIBRO CAST METHOD

TRANSVERSE CONTRACTION JOINT, SAWED METHOD



DOWELS (LENGTH 18")				
Pavement Thickness "D"	Diameter			
6"	₹"			
7"	/"			
8"	/"			
9"	14"			
10"	14"			
≥//"	/ <del>/</del> "			

DOWEL BAR LAYOUT

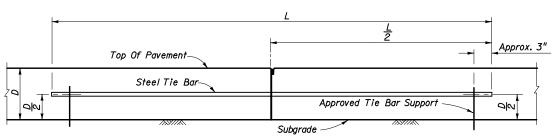
TRANSVERSE JOINTS ARE TO BE SPACED AT A MAXIMUM OF 15'. DOWELS ARE REQUIRED AT ALL TRANSVERSE JOINTS UNLESS OTHERWISE NOTED IN PLANS.

# TRANSVERSE JOINTS

MAXIMUM TIE BAR SPACING						
	Distance To Closest Free Edge					
Pavement	1.	2'	24'			
Thickness "D"	#4 Bars Length 25"	#5 Bars Length 30"	#4 Bars Length 25"	# 5 Bars Length 30"		
6"	48"	48"	26"	4/"		
7"	<i>4</i> 5"	48"	22"	35"		
8"	39"	48"	19"	3/"		
9"	35"	48"	17"	27"		
10"	3/"	48"	15"	24"		
//"	29"	<b>4</b> 5"	14"	22"		
12"	26"	4/"	13"	20"		
13" 24"		38"	12"	19"		
14"	22"	35"	//"	17"		
<i>15"</i> 2 <i>1</i> "		33"	10"	<i>16</i> "		

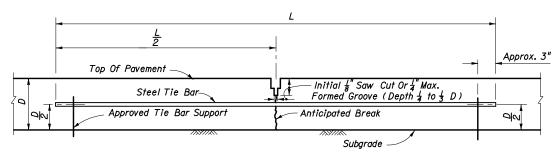
Tie bars are deformed #4 or #5 reinforcing steel bars meeting the requirements of Section 93/ of the Standard Specifications.

When the distance to the closest free edge exceeds 24', provide a standard load transfer tied joint with #4 bars at 24" spacing. This joint can then be considered a free edge for determination of tie bar spacing on other joints.



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

### LONGITUDINAL BUTT CONSTRUCTION JOINT



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

### LONGITUDINAL LANE-TIE JOINT

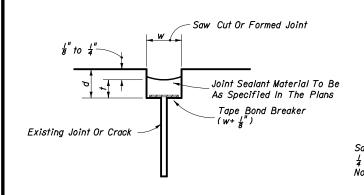
## LONGITUDINAL JOINTS

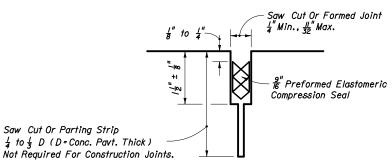
Note: For joint seal dimensions see Sheet 2.

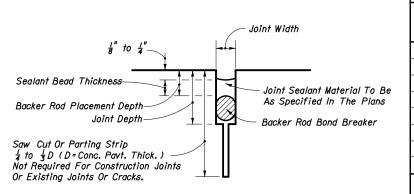
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

# CONCRETE PAVEMENT JOINTS

	Names	Dates			
Designed By			State Pavement Design Engineer		
Drawn By	HW	08/57	Revision	Sheet No.	Index No.
Checked By	HEC	08/57	00	1 of 4	305







BACKER ROD BOND BREAKER (CONCRETE-CONCRETE JOINTS) DIMENSIONS (INCHES) JOINT MINIMUM BACKER ROD SEALANT BACKER ROD JOINT PLACEMENT BEAD DIAMETER **THICKNESS** DEPTH WIDTH*DEPTH*  $1\frac{3}{4}$ 

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

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 \( \frac{\pi}{2} \) has a maximum value of 2.0 and a minimum value of 1.0.

FOR REHABILITATION PROJECTS

TAPE BOND BREAKER

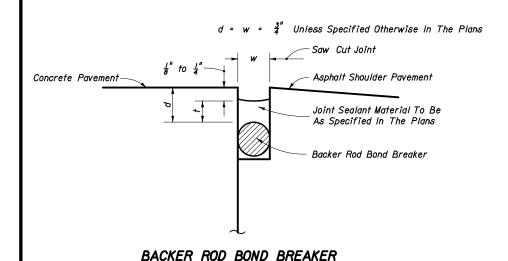
FOR NEW PROJECTS

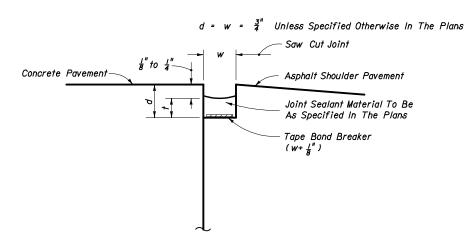
PREFORMED ELASTOMERIC COMPRESSION SEAL

FOR NEW AND REHABILITATION PROJECTS

BACKER ROD BOND BREAKER

# CONCRETE - CONCRETE JOINTS





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

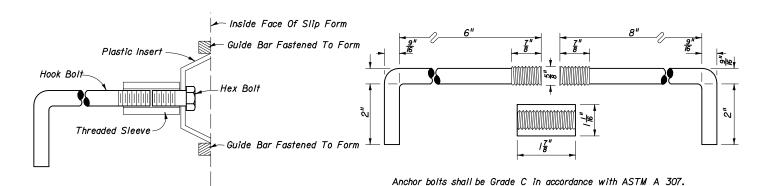
JOINT SEAL DIMENSIONS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

# CONCRETE PAVEMENT JOINTS

	Names	Dates	Approved By		n	
Designed By	WNL	05/86	State Pavement Design Engineer			
Drawn By	HSD	05/86	Revision	Sheet No.	Index No.	
Checked By	JVG	05/86	00	2 of 4	305	

\$\$\$\$\$\$\$SYTIME\$\$\$\$\$



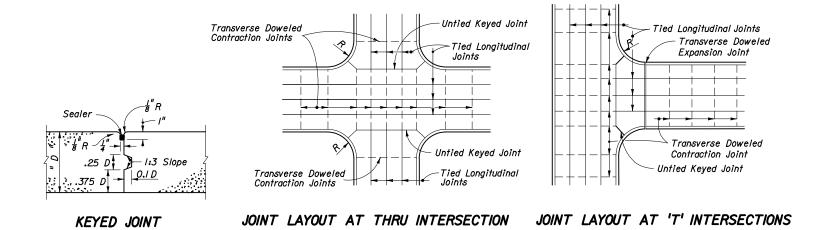
NOTE: After the concrete has set to the extent that the Keyway will retain its shape, the hex bolt and plastic insert shall be removed. The remaining portion of the hook bolt assembly shall be installed immediately prior to placing of concrete in the adjacent lane.

### ALTERNATE KEYWAY AND HOOK BOLT

## STEEL HOOK BOLT ASSEMBLY

Threaded sleeves shall develop the full strength of the bolt and meet the

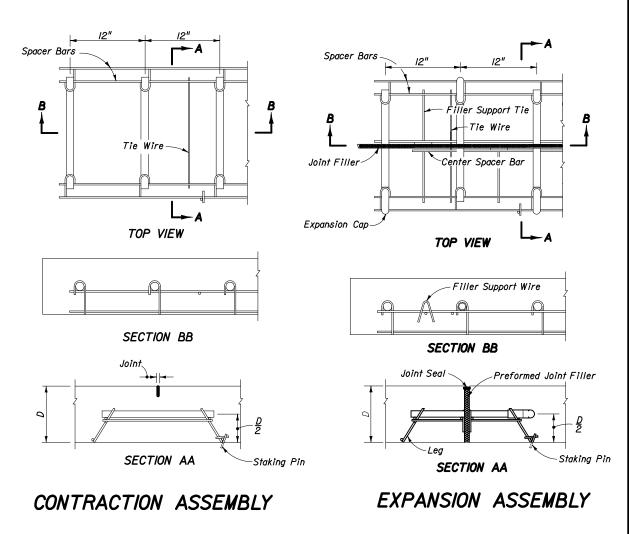
material and thread requirements of ASTM A 563.



#### NOTES

- I. Longitudinal joints will not be required for single lane pavement I4' 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  $\frac{1}{2}$ " preformed expansion joint material.

## JOINT ARRANGEMENT



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.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

# CONCRETE PAVEMENT JOINTS

	Names	Dates	Approved By		7	
Designed By	HMD	07/97	State Pavement Design Engineer			
Drawn By	HSD	07/94	Revision	Sheet No.	Index No.	
Checked By	HMD	07/97	00	3 of 4	305	

