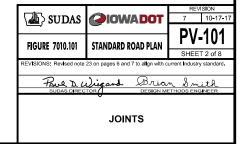
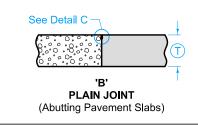


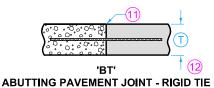
- (8) Saw 'CD' joint to a depth of T/3 \pm 1/4"; saw 'C' joint to a depth of T/4 \pm 1/4".
- When tying into old pavement, T represents the depth of sound PCC.

BAR SIZE TABLE			
T	Tie Bar Size		
< 8"	<u>3</u> ., 4	#6	
2 8" but 1 1 1" < 10"		#10	
≥ 10"	1 <u>1</u> "	#11	

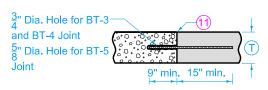






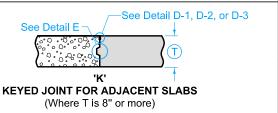


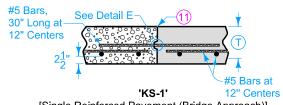
T	Joint	Bars	Bar Length and Spacing
< 8"	'BT-1'	#4	36" Long at 30" Centers
≥ 8"	'BT-2'	#5	36" Long at 30" Centers

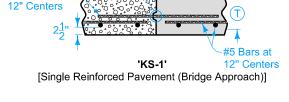


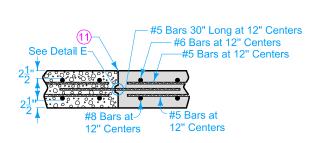
'BT' **ABUTTING PAVEMENT JOINT - RIGID TIE (Drilled)**

T	Joint	Bars	Bar Length and Spacing
< 8"	'BT-5'	#4	24" Long at 30" Centers
≥ 8"	'BT-3'	4 .г	24" Long at 30" Centers
	'BT-4'	#5	24" Long at 15" Centers

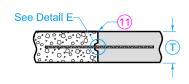








'KS-2' [Double Reinforced Pavement (Bridge Approach)]



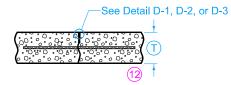
(10)(12) 'KT' **ABUTTING PAVEMENT JOINT - KEYWAY TIE**

T	Joint	Bars	Bar Length and Spacing
< 8"	'KT-1'	#4	30" Long at 30" Centers
≥ 8"	'KT-2'	#5	30" Long at 30" Centers
	'KT-3'		30" Long at 15" Centers

LONGITUDINAL CONTRACTION

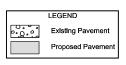
- Bar supports may be necessary for fixed form paving to ensure the bar remains in a horizontal position in the plastic concrete.
- (1) Sawing or sealing of joint not required.
- 12 The following joints are interchangeable, subject to the

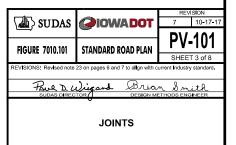
pouring sequence: 'BT-1', 'L-1', and 'KT-1' 'KT-2' and 'L-2' 'KT-3' and 'L-3'

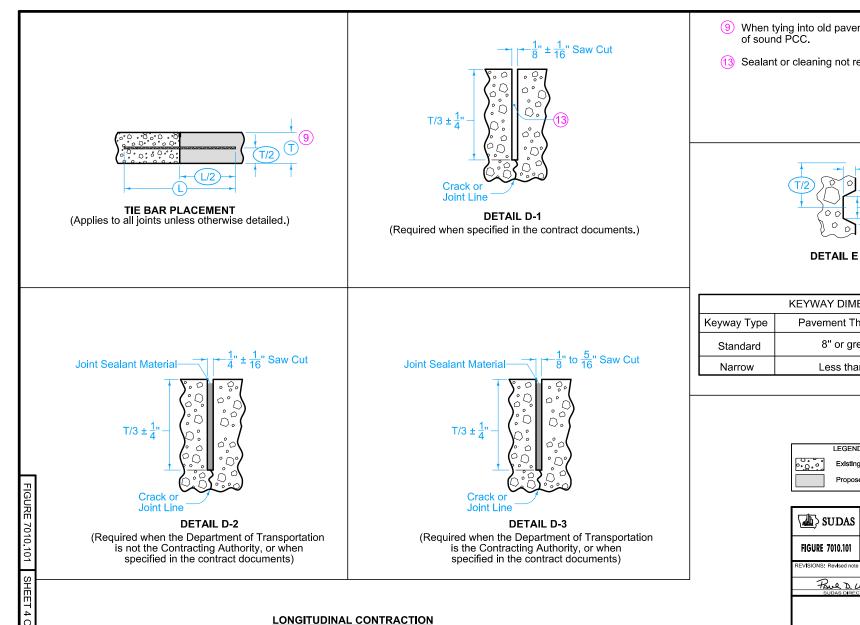


'L'
CONTRACTION JOINT

T	Joint	Bars	Bar Length and Spacing
< 8"	'L-1'	#4	36" Long at 30" Centers
≥ 8"	'L-2'	#5	36" Long at 30" Centers
	'L-3'		36" Long at 15" Centers







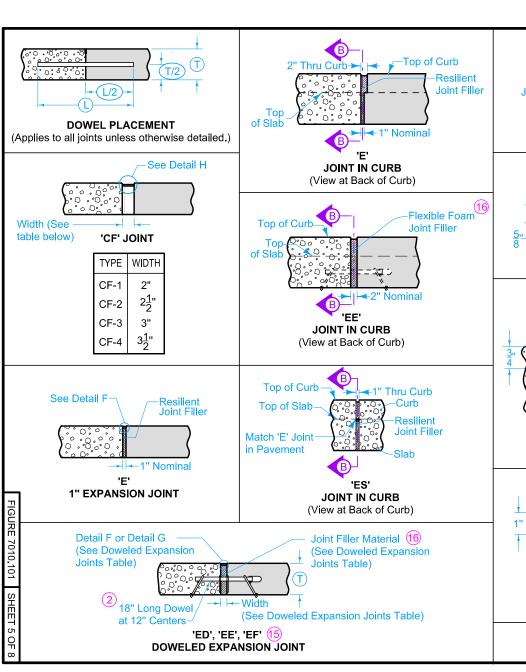
- When tying into old pavement, T represents the depth of sound PCC.
- (13) Sealant or cleaning not required.



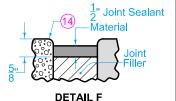
KEYWAY DIMENSIONS				
Keyway Type	Pavement Thickness T	A	B	
Standard	8" or greater	1 <mark>3</mark> "	2 3 "	
Narrow	Less than 8"	1"	2"	
Narrow	Less than 8"	1"	2"	



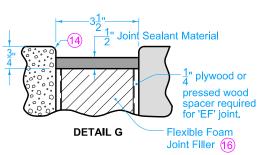


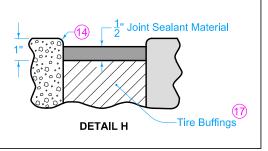






- 2 See Bar Size Table.
- (4) Edge with 1/4 inch tool for length of joint indicated if formed; edging not required when cut with diamond blade saw.
- See Dowel Assemblies for fabrication details and placement limits. Coat the free end of dowel bar to prevent bond with pavement. At intake locations, dowel bars may be cast-in-place.
- (6) Predrill or preform holes in joint material for appropriate dowel size.
- (7) Compact tire buffings by spading with a square-nose shovel.





XΡΔ	NS	IΩN	

	DOWELED EXPANSION JOINTS			
	TYPE	WIDTH	FILLER MATERIAL 16	
	ED	1"	Resilient (Detail F)	
	EE 2" EF 3 ¹ / ₂ "		Flexible Foam (Detail F)	
			Flexible Foam (Detail G)	

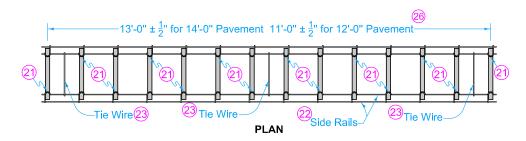
DOWELED EXPANSION TOINTS

BAR SIZE TABLE			
T	< 8"	≥ 8" but < 10"	≥ 10"
Dowel Diameter	<u>3</u> 4	1 <u>1</u> "	1 <u>1</u> "



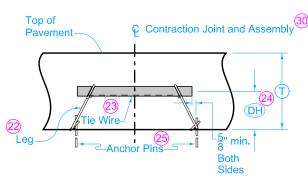


CONTRACTION JOINTS



Spaces between dowel bars are nominal dimensions with a $\frac{1}{4}$ " allowable tolerance.





LONGITUDINAL SECTION

DOWEL ASSEMBLIES 18 19

- (8) Use 18 inch long dowel bars with a tolerance of ± 1/8 inch. Ensure the centerlines of individual dowels are parallel to the other dowels in the assembly within ± 1/8 inch.
- (19) Use wires with a minimum tensile strength of 50 ksi.
- Details apply to both transverse contraction and expansion joints.
- 21) Weld alternately throughout.
- 20 0.306 inch diameter wire. Wire sizes shown are the minimum required.
- 23 Maximum 0.177 inch diameter wire, welded or friction fit to upper side rail, both sides.
- Measured from the centerline of dowel bar to bottom of lower side rail + 1/4 inch.
- Per lane width, install a minimum of 8 anchor pins evenly spaced (4 per side), to prevent movement of assembly during construction. Anchor assemblies placed on pavement or PCC base with devices approved by the Engineer.
- 26 If dowel basket assemblies are required for curbed pavements, the assembly length is based on the jointing layout. See PV-101, sheet 8.
- Ensure dowel basket assembly centerline is within 2 inches of the intended joint location longitudinally and has no more than 1/4 inch horizontal skew from end of basket to end of basket.

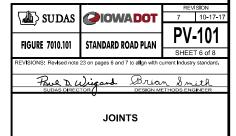
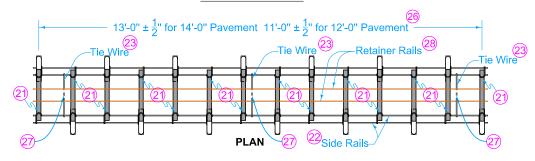


FIGURE 7010.101 SHEET 6 OF

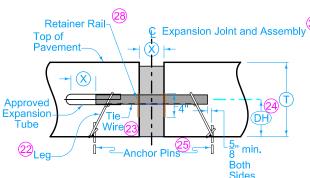


EXPANSION JOINTS



Spaces between dowel bars are nominal dimensions with a $\frac{1}{4}$ allowable tolerance.



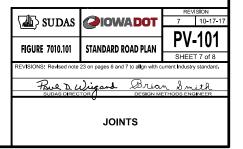


SECTION	THRU	EXPANSION	JOINT

JOINT OPENING AND EXPANSION TUBE EXTENSION			
Joint Type	X	Minimum Tube Length	
"ED"	6"		
"EE" 2"		7"	
"EF"	3 <u>1</u> "	9"	

DOWEL HEIGHT AND DIAMETER			
T	DH 24	Diameter	
7" to 7 <u>1</u> "	3 <u>1</u> "	<u>3</u> ., 4	
8" to 9 <u>1</u> "	4 <u>1</u> "	1 <u>1</u> "	
10" to 11 <u>1</u> "	5 <u>1</u> "	1 <u>1</u> "	
12" to 13"	6 <u>1</u> "	1 <u>1</u> "	

- Use 18 inch long dowel bars with a tolerance of ± 1/8 inch. Ensure the centerlines of individual dowels are parallel to the other dowels in the assembly within ± 1/8 inch.
- 19 Use wires with a minimum tensile strength of 50 ksi.
- 20 Details apply to both transverse contraction and expansion joints.
- 21 Weld alternately throughout.
- 20 0.306 inch diameter wire. Wire sizes shown are the minimum required.
- 23 Maximum 0.177 inch diameter wire, welded or friction fit to upper side rail, both sides.
- Measured from the centerline of dowel bar to bottom of lower side rail + 1/4 inch.
- Per lane width, install a minimum of 8 anchor pins evenly spaced (4 per side), to prevent movement of assembly during construction. Anchor assemblies placed on pavement or PCC base with devices approved by the Engineer.
- If dowel basket assemblies are required for curbed pavements, the assembly length is based on the jointing layout. See PV-101, sheet 8.
- Clip and remove center portion of tie during field assembly.
- 28 1/4 inch diameter wire.
- 30 Ensure dowel basket assembly centerline is within 2 inches of the intended joint location longitudinally and has no more than 1/4 inch horizontal skew from end of basket to end of basket.



DOWEL ASSEMBLIES (18)(19)

