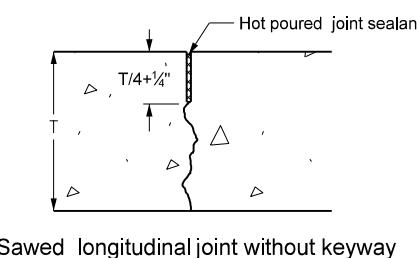
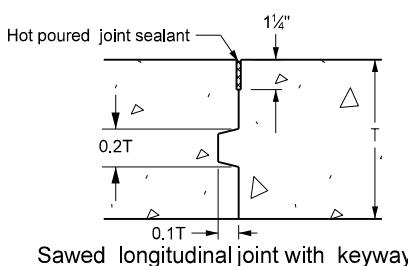


# LONGITUDINAL JOINT DETAILS

D-550-2

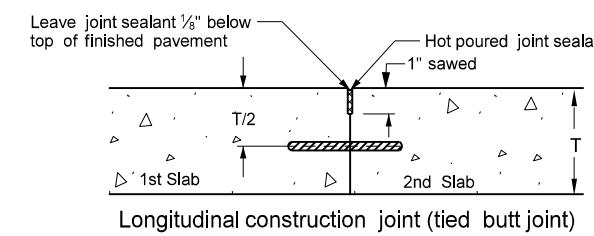
## UNTIED JOINTS



Sawed longitudinal joint with keyway

Sawed longitudinal joint without keyway

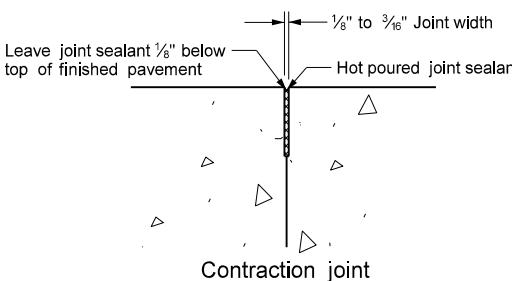
## TIED JOINTS



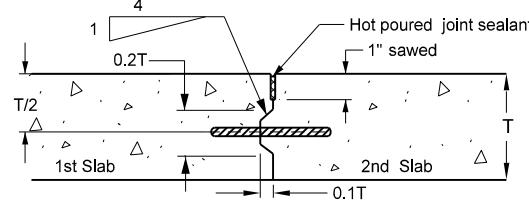
Longitudinal construction joint (tied butt joint)

Notes:

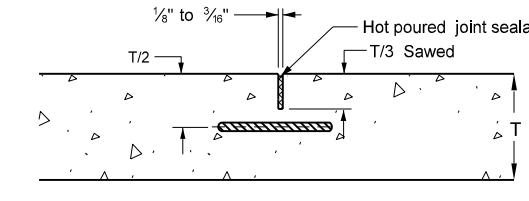
1. Provide hot poured joint sealant meeting the requirements of Section 826.02A.2 of the Standard Specifications.
2. Include all costs of the longitudinal joint and seal in the price bid for the PCC pavement.
3. Do not place tie bars within 18 inches of a transverse skewed joint.
4. Use Grade 40 steel for tie bars installed bent and later straightened.
5. Increase the tie bar spacing up to 10%, when necessary to facilitate construction.
6. Place tie Bars at a 48 inch maximum spacing.
7. A "Warp" joint is a sawed joint or a construction joint with a keyway.
8. A "Butt joint" is a construction joint with no keyway.



Contraction joint



Longitudinal construction joint (tied keyed joint)



Sawed longitudinal joint

JOINT TYPE  
DIST TO FREE EDGE (FT)  
BAR LENGTH  
GRADE STEEL  
BAR SIZE  
PVMT THICKNESS

JOINT TYPE DIST TO FREE EDGE (FT) BAR LENGTH GRADE STEEL BAR SIZE PVMT THICKNESS	TIEBAR SPACINGS (In)																											
	# 3 BAR				# 4 BAR				# 5 BAR				# 6 BAR				# 7 BAR				# 8 BAR				# 9 BAR			
	GRADE 40		GRADE 60		GRADE 40		GRADE 60		GRADE 40		GRADE 60		GRADE 40		GRADE 60		GRADE 40		GRADE 60		GRADE 40		GRADE 60		GRADE 40		GRADE 60	
	24"	30"	24"	30"	24"	30"	24"	30"	24"	30"	24"	30"	24"	30"	24"	30"	24"	30"	24"	30"	24"	30"	24"	30"	24"	30"	24"	30"
6"	WARP	48 39	48 48	48	48 48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
	BUTT	37 27			48 42			48																				
8"	WARP	48 39	29 24	48 48	44 35	29 25	48 42	35 30	26	48 48	48 45	39 28	26	48 48	47 41	30 27	48 48	48 45	41	48 48	48 48	48 43	39 48	48 48	48 48	48 48	48 48	48 48
	BUTT	42 27			48 42	31 25		37 29	24	48 44	37 32	27		46 39	33 29		48 48	48 43	32 29	48 48	48 48	48 35	30 27	48 48	48 48	48 48	48 45	41
8 1/2"	WARP	48 37	28		48 48	42 33	28 24	48 39	33 28	24	48 48	48 42	37 27	24	48 48	44 38	28 25	48 48	48 42	38	48 48	48 47	40 37	48 48	48 48	48 48	48 48	48 48
	BUTT	39 26			44 39	29		35 27		48 42	35 29	26		44 36	31 27		48 48	47 41	30 27	48 48	45 39	33 28	26 48	48 48	48 48	48 42	39	
9"	WARP	48 35	26		48 48	39 31	26		47 37	31 26		48 48	47 40	35 25		48 48	42 36	26 24	48 48	48 40	36	48 48	48 44	38 35	48 48	48 48	48 48	48 48
	BUTT	37 24			48 37	27		33 26		48 40	33 28	25		41 34	29 25		48 48	44 39	28 25	48 48	42 37	31 26	24 48	48 48	48 47	40 37		
9 1/2"	WARP	48 33	25		48 48	37 30	25		44 35	29 25		48 48	44 38	33 24		48 46	39 34	25	48 48	48 42	37 24	48 47 40	35 29	33 48	48 48	48 48	48 48	48 48
	BUTT	35			48 35	26		31 25		47 37	31 27		39 32	27 25		48 48	42 37	24	48 47	40 35	29 25	48 48	48 48	44 38	35			
10"	WARP	47 31			48 47	35 28		42 34	28 24		48 48	42 36	31		48 44	37 33	24	48 48	48 36	33	48 48	48 40	34 31	48 48	48 48	48 48	47	
	BUTT	33			48 33	25		29	24		45 36	29 25		37 31	26 24		48 46	40 35	25	48 45	38 33	28	48 48	48 48	42 36	33		
10 1/2"	WARP	45 30			48 45	34 27		40 32	26		48 48	40 34	30		48 42	36 31		48 48	48 47	34 31	48 48	45 38	33 30	48 48	48 48	48 45	45	
	BUTT	32			48 32	24		28			42 34	28 24		35 29	25		48 44	38 33	24	48 42	36 32	27	48 48	48 48	40 34	31		
11"	WARP	43 28			48 43	32 26		38 31	25		48 46	38 33	28		48 40	34 30		48 48	45 32	30	48 48	43 36	31 28	48 48	48 48	48 47	43	
	BUTT	30			46 30			27			40 32	27		34 28	24		48 42	36 32		48 40	35 30	25	48 48	48 46	38 33	30		
11 1/2"	WARP	41 27			48 41	31 24		36 29	24		48 44	36 31	27		46 38	32 28		48 48	43 31	28	48 48	47 41	34 30	27	48 48	48 48	45 41	
	BUTT	29			44 29			25			39 31	25		32 27			48 40	35 30		46 39	33 29	24	48 48	48 44	37 31	29		
12"	WARP	39 26			48 39	29		35 28			48 42	35 30	26		44 36	31 28		48 48	47 41	30 27	48 48	45 40	33 28	26	48 48	48 48	48 43	
	BUTT	27			42 27			25			37 30	25		31 25			46 39	33 29		45 37	32 28		48 48	48 42	35 30	27		
12 1/2"	WARP	38 25			48 38	28		33 27			48 40	33 29	25		42 35	30 26		48 48	45 39	28 26	48 48	48 43	38 32	25	48 48	48 48	48 41	