STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



NOTES

Threaded or Coil

Splicer Rods (E)

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars. Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and fied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity (Tension in kips) = 1.25 x fy x A_t (1)

2 (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi. A_I = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

		Strength Requirements				
	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension			
#4	1'-8''	14.7	7.9			
#5	2'-0''	23.0	12.3			
#6	2'-7''	33.1	17.4			
#7	3′-5″	45.1	23.8			
#8	4'-6''	58.9	31.3			
#9	5'-9''	75.0	39.6			
#10	7'-3''	95.0	50.3			
#11	9'-0''	117.4	61.8			



Bar Size	No. Assemblies Required	Location
#4	55	Conc. W.S.
#5	12	Backwall

DESIGNED	DDB	
CHECKED	LLV	
DRAWN	MJY	
CHECKED	LLV	
BSD-1	5-16-08	3

	ROUTE ND.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.	SHEET	F NO.	11
	FAP 770	116 BR-1	Moultrie		46	20	<i>11</i> s+	EETS	
FED. ROAD DIST. NO. 7			ILLINGIS	FED. AID PRO	элкст-				

Contract #74183

Minimum *Pull-out Strength = 0.66 x fy x A_t

STANDARD

BAR SPLICER DETAILS F.A.P. 770 (IL RTE. 128) OVER TRIBUTARY TO MARROWBONE CREEK SECTION 116-BR-1 MOULTRIE COUNTY STA. 959+14.00 STRUCTURE NO. 070-0037

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