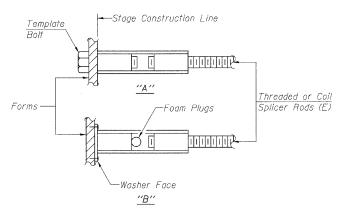


** ONE PIECE 7747474 WELDED SECTIONS

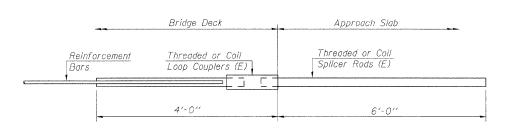
BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.

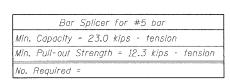


INSTALLATION AND SETTING METHODS

"A" :Set bar splicer assembly by means of a template bolt. "B" :Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



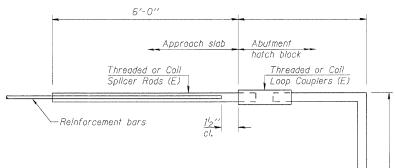
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS



DESIGNED B. Sauter CHECKED E. Mroczek DRAWN R. Danley

CHECKED B. Sauter BSD-1 5-16-08





FOR STUB ABUTMENTS

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required =

Bar spiicer 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 tied to the splicer rods or dowel bars.

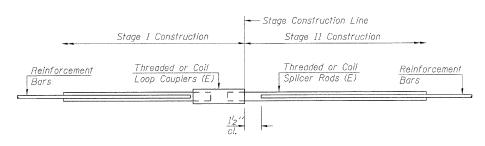
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

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:

(lension in kips) Minimum *Pull-out Strength = 0.66 x fy x A_1

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

	BAR SPLIC	CER ASSEMBLI	ES		
Bar Size to be Spliced		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		



STANDARD

Bar Size	1	o. Assemblie Required	es Location
#4		129	Deck Overlay
#5		10	Abut. Backwall

BAR SPLICER DETAILS US 52 OVER FORKED CREEK STA. 65+70 S.N. 099-0133

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SHEET NO. S-13	F.A.P RTE.	SECTION		COUNTY	TOTAL	SHEET NO.		
	110.0 10	852	18B		WILL	31	28	
S-13	SHEETS				CONTRACT	NO. 6	0D87	
		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						