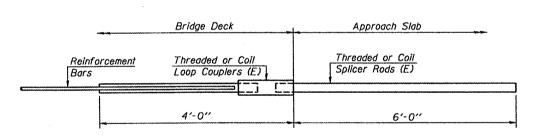
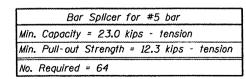


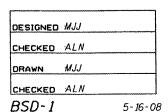
BAR SPLICER ASSEMBLY ALTERNATIVES

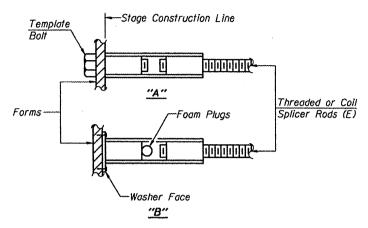
**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

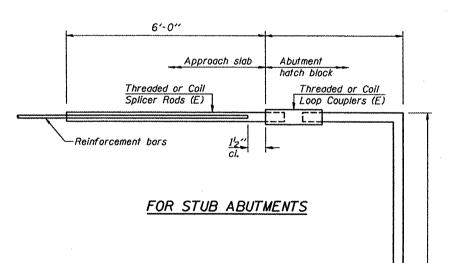






INSTALLATION AND SETTING METHODS

"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.



	Bar	Splicer	for a	#5	bar		
Min.	Capacity	= 23.0	kips	- te	ensio	n	
Min.	Pull-out	Strength	= 12	2.3	kips	-	tension
No	Required	=					

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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 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:

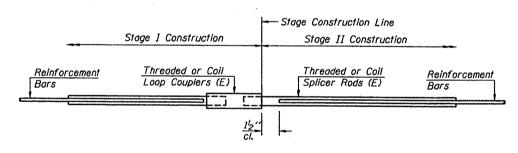
- Minimum Capacity (Tension in kips) = 1.25 x fy x A_t
- (Tension III איסקא Minimum *Pull-out Strength = 0.66 x fy x A, (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.

- A₁ = Tensile stress area of lapped reinforcement bars.

 * * 28 december 1
- = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES		
O Ci 4-	6-11 0-1	Strength Requirements			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	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	<i>50.3</i>		
#11	9′-0″	117.4	61.8		



STANDARD

Bar Size	No. Assemblies Required	Location		

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 036-0069

THOUVENOT, WADE & MOERCHEN, INC.

COBPOBATE OFFICE 4940.Old.Collinsville.Boad Sweasee, Illinois 62226 Tel: 618.624.4488 Fax: 618.624.6688



SHEET NO. 15 SHEETS 17

SECTION COUNTY 534 HENDERSON 490 442 109BR-2 CONTRACT NO. 88773

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT