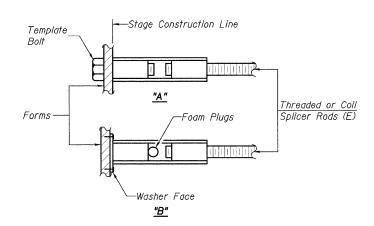
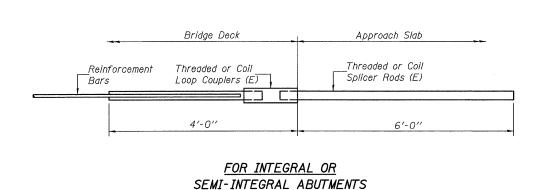


**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

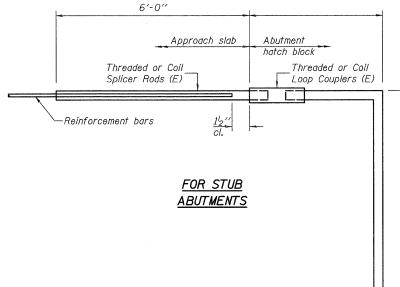
"A": Set bar splicer assembly by means of a template bolt. "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



	Bar	Splicer	for	#5	bar		
Min.	Capacity	= 23.0	kips	5 - 1	ensio	7	
Min.	Pull-out	Strength) = .	12.3	kips	-	tension
No.	Required	= 80					

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

BSD-1 10-1-08



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

NOTES

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 = 1.25 x fy x A_t

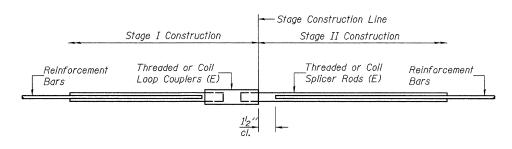
 (Tension in kips) = 1.25 x fy x A_t

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

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

- A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

BAR SPLICER ASSEMBLIES						
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements				
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension			
#4 1′-8′′		14.7	7.9			
#5	2′-2′′	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	No. Assemblies Required	Location		
#6	16	Diaphragm		
#5	239	Deck		
#7	18	Abutment		
#4	50	Approach		
#5	172	Approach		

BAR SPLICER ASSEMBLY DETAILS

								5	
SHEET NO. 19	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	4915		
	5/1227 //51 15	328	(4BR-1)B		CLAY	42	37	ç	
	21 SHEETS	S.N. 013-0039			CONTRACT	CONTRACT NO. 74310			
		FED. R	OAD DIST. NO	ILLINOIS FED.	AID PROJECT			1	

HENRY, MEISENHEIMER & GENDE, INC. LAKE ROAD, P.O. BOX 70 CARLYLE, ILL. 62231 (618) 594-3711 WWW.HMGENGINEERS.COM