Structural Sheet 10 of 12

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:

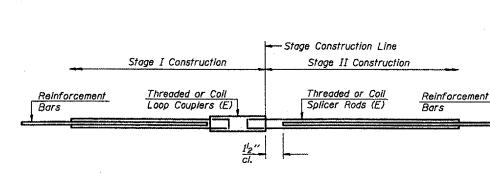
Minimum Capacity = 1.25 x fy x A_t

Minimum *Pull-out Strength = 0.66 x fy x A, (Tension in kips)

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

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

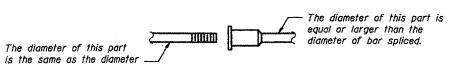
BAR SPLICER ASSEMBLIES									
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements							
			Min. Pull-Out Strength kips - tension						
#4	1'-8"	14.7	7.9						
#5	2'-0"	23.0	12.3						
#6	2'-7"	33.1	17.4						
#7	3′-5"	45.1	23.8						
#8	4'-6''	58.9	31.3						
#9	5′-9″	75.0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



STANDARD

Bar Size	No. Assemblies Required	Location		

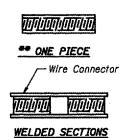
BAR SPLICER (COUPLER DETAILS) ILLINOIS ROUTE 180 OVER BRANCH OF BRANDYWINE CREEK F.A.S. ROUTE 1195 - SECTION (112B)BR-3 KNOX COUNTY STA. 586+75 (S.N. 048-0089) WHA # 1189D06



ROLLED THREAD DOWEL BAR

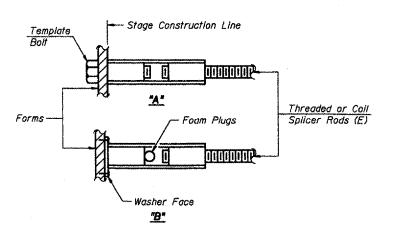
The diameter of this part

of the bar spliced.



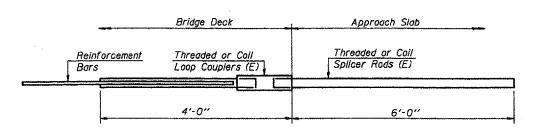
BAR SPLICER ASSEMBLY ALTERNATIVES

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



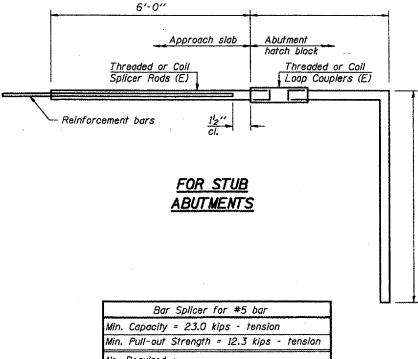
INSTALLATION AND SETTING METHODS

"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

	Bai	Splicer	for	· #5	bar		
Min.	Capacity	= 23.0	kip.	5 ~ 1	ensid	n	
Min.	Pull-out	Strength) =	12.3	kips	_	tension
No.	Required	= 80					



No. Required =