

** ONE PIECE

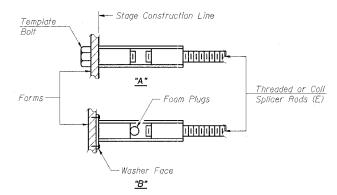
— Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

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

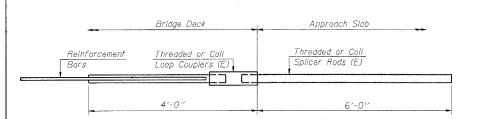


INSTALLATION AND SETTING METHODS

"A": Set bar spiicer 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.

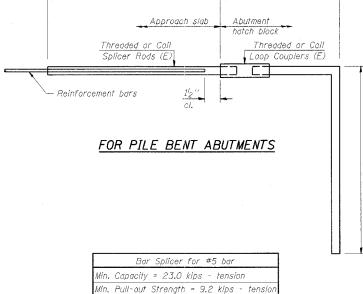
6'-0''

. Required =



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 9.2 kips - tension No. Reauired =



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:

- 1
- Minimum Capacity = 1.25 x fy x A_t

 (Tension in kips) = 1.25 x fy x A_t

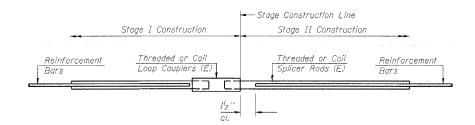
 Minimum *Pull-out Strength = 1.25 x fs_{allow} x A_t (2)

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

fs_{allow}= Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

BAR SPLICER ASSEMBLIES					
	Splicer Rod or Dowel Bar Length	Strength Requirements			
			Min. Pull-Out Strength kips - tension		
#4	1'-8''	14.7	5.9		
#5	2'-0''	23.0	9,2		
#6	2'-7"	33.1	13.3		
#7	3′-5′′	45.1	18.0		
#8	4'-6''	58.9	23.6		
#9	5′-9′′	75.0	30.0		
#10	7'-3''	95.0	38.0		
#11	9′-0′′	117.4	46.8		

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



STANDARD

Bar Size	No. Assemblies Required	Location
#5	6	Neoprene Jt. at Bent #4

BAR SPLICER ASSEMBLY DETAILS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	TELINOIS DEPARTMENT OF TRANSFORTATION	
	-		
		BAR SPLICER	
		ASSEMBLY DETAILS	
		SCALE: VERT. DRAWN BY	
		HORIZ. DATE CHECKED BY	

SECTION

* FAP 328 (US 45)

PED. ROAD DEST. NO. 7 BLLDNOSS FED. AID PROJECT NO.

752 (106-2Z)TS

COUNTY

FAYETTE

** D-7 BRIDGE DECK REPAIRS FY 2004

CONTRACT NO. 94941

BSD-1

9-01-03