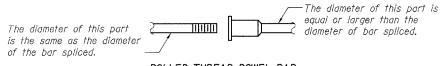
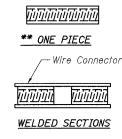
DEPARTMENT OF TRANSPORTATION

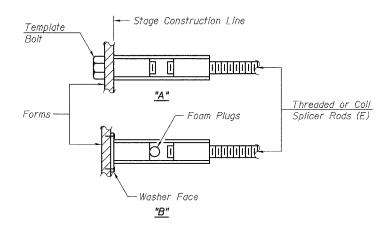


ROLLED THREAD DOWEL BAR



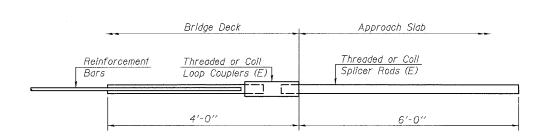
BAR SPLICER ASSEMBLY ALTERNATIVES

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



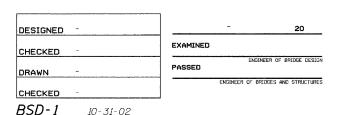
INSTALLATION AND SETTING METHODS

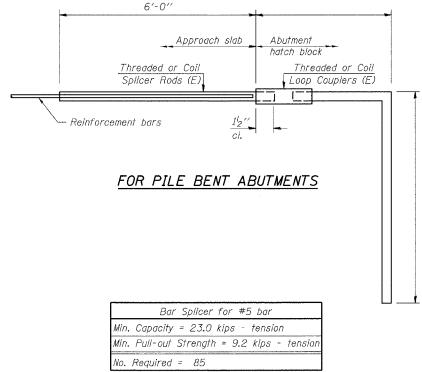
"A": Set bar splicer assembly by means of a template bolt. "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar Splicer for #5 bar						
Min.	Capacity	= 23.0	kip.	s -	tensi	on	
Min.	Pull-out	Strength	=	9,2	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 (Tension in kips) = 1.25 x fy x A_t

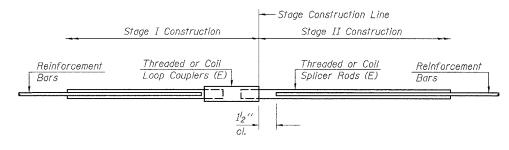
(lension iii Nipo) Minimum *Pull-out Strength = 1.25 x fs_{allow} x A_t (Tension in kips)

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 SPLIC	ER ASSEMBLI	ES			
5		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	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

BAR SPLICER ASSEMBLY DETAILS FAS 259 C.H. 3 OVER FOX RIVER LA SALLE COUNTY STA. 20+15.00 STRUCTURE NO. 050-3562

RAWN BY: LAG	CAD: BARSP	REVISIONS		SCALE: NONE	SHEET 59	
NAME DI LAG		DATE	BY	SCALL: HONE	SHEET 33	
HECKED BY: JKC	DATE: 02/03			FILE NO.: 11174.01Y-1	OF	79