

## BAR SPLICER ASSEMBLY ALTERNATIVES

Approach Slab

6'-0''

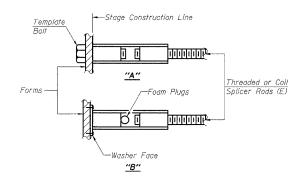
Threaded or Coil Splicer Rods (E)

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

Bridge Deck

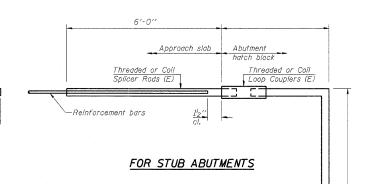
4'-0"

Threaded or Coil Loop Couplers (E)



## 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.



	Bai	Splicer	for	#5	bar	
Min.	Capacity	= 23.0	kips	- 1	ension	
Min.	Pull-out	Strength	= 1	2.3	kips -	tension

FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension

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.

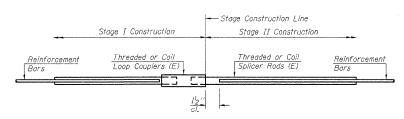
All reinforcement bars shall be lapped and field to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for

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:

Where fy = Yield strength of lapped reinforcement bars in ksi. A<sub>t</sub> = Tensile stress area of lapped reinforcement bars.
\* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES				
		Strength Requirements					
	Splicer Rod or Dowel Bar Length		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				



## <u>STANDARD</u>

No. Assemblies Required	Location 026-0009				
16					
8	026-0009				
16	026-0010				
8	026-0010				
	Required 16 8				

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO.

BSD-1

5-16-08

FILE NAME =	USER NAME = swartzrw	DESIGNED -	REVISED -		BAR SPLICER ASSEMBLY DETAILS				F.A.I.	SECTION	COUNTY
c:\pw_work\PWIDOT\SWARTZRW\dms36208\th	eledesign_94993.dgn	DRAWN	REVISED -	STATE OF ILLINOIS	SN. 026-0009 AND 026-0010			70 C	0-7 BRIDGE DECK REPAIRS	FAYETTE	
	PLOT SCALE = 20.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT			
	PLOT DATE = 10/17/2008	DATE -	REVISED		SCALE: N/A	SHEET NO. 11 OF 14 SHEETS	STA.	TO STA.	FED. ROA	D DIST. NO.   ILLINOIS FED. AID	PROJECT

SHEET NO. 1

| 14 SHEETS | 14 SHEETS | 14 SHEETS | 15 SHEETS | 15 SHEETS | 16 SHEETS | 17 SHEETS | 17 SHEETS | 18 S CONTRACT NO. 94993