

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:

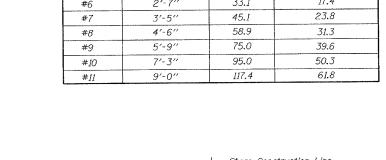
Minimum Capacity =  $1.25 \times fy \times A_t$ 

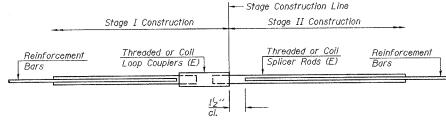
Minimum \*Pull-out Strength =  $0.66 \times fy \times A_f$ (Tension in kips)

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	
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	

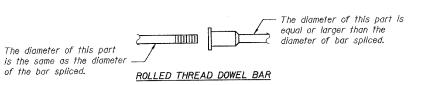




## STANDARD

Bar Size	No. Assemblies Required	Location
#4	168	Conc. W.S.

ILLINOIS DEPARTMENT OF TRANSPOR	RTATION
SHEET TITLE	
BAR SPLICER ASSEMBLY DETAI	LS
FAP 332 OVER BONPAS CREEK FAP ROUTE 332 (IL 1) SECTION 101B-1 WABASH COUNTY STATION 149+30 SN 093-0005	03/15/ DRAWN BY T CHECKED BY GB/CME/M
COOMBE-BLOXDORF P.C.  Engineers / Land Surveyors  Springfield, Illinois	DRAWING NO.
Design Firm License No. 184-002703	OF 11 SH

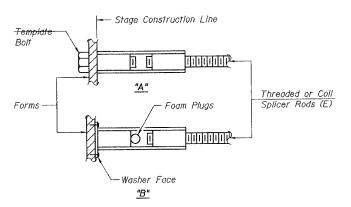


\*\* ONE PIECE -Wire Connector WELDED SECTIONS

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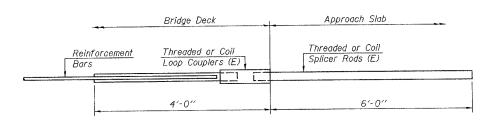
## BAR SPLICER ASSEMBLY ALTERNATIVES

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



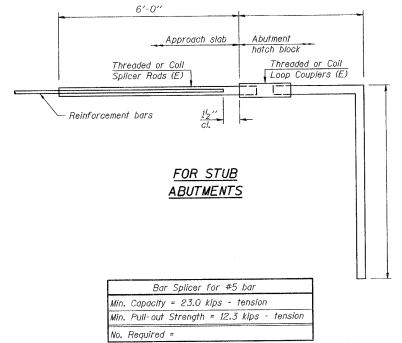
## INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt. "B": Set bar splicer assembly by nalling 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 kips - tension
Min.	Pull-out	Strength = 12.3 kips - tension
No.	Required	=



**BSD-1** 11-1-06

f DATE = 03/15/2007 : NAME = ...@033-0005-sht-11-T SCALE = 03.0000 \*\* / IN. R NAME = TFG.