

## INSTALLATION AND SETTING METHODS

<u>"B"</u>

"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.



ROUTE HO.	98CT20H	co.	RCTY	Jely	OLEGET NO.
FAS 203	11BR-1	WHITES ROCK I		20	43
FED. ROAD DI	ST. NO. 3	ILLINOIS	FED. AID I	PROJECT-	

CONTRACT 64939

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<sub>t</sub>

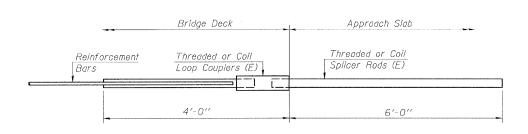
  (Tension in kips) = 1.25 x fy x A<sub>t</sub>

  Minimum \*Pull-out Strength = 0.66 x fy x A<sub>t</sub>

(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

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	BAR SPLIC	ER ASSEMBLI	ES
		Strengt	h Requirements
Bar Size to be Spliced	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



ROLLED THREAD DOWEL BAR

\*\* ONE PIECE

WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

\*\*Heavy Hex Nuts conforming to ASTM

A 563, Grade C, D or DH may be used.

-Wire Connector

The diameter of this part

of the bar spliced.

is the same as the diameter

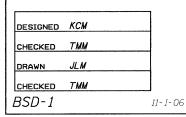
The diameter of this part is

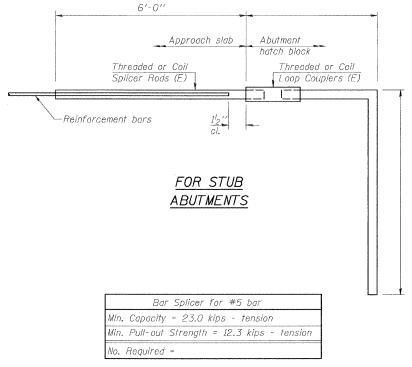
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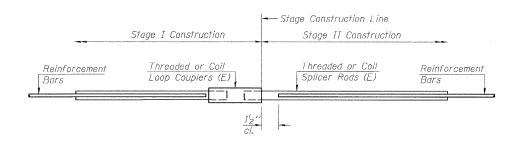
diameter of bar spliced.

## FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar	Splicer	for #5	bar	
Min.	Capacity	= 23.0	kips - :	ension	
Min.	Pull-out	Strength	= 12.3	kips -	tension
No.	Required	= 66			







## STANDARD

Bar Size	No. Assemblies Required	Location

BAR SPLICER ASSEMBLY DETAILS FAS ROUTE 203 (MOLINE ROAD) OVER MEREDOSIA DITCH SECTION 11BR-1 STA. 428+20.80 WHITESIDE & ROCK ISLAND COUNTIES SN 098-0111