-Stage Construction Line

Foam Plugs

<u>"A"</u>

-Washer Face

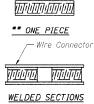
<u>"B"</u>

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

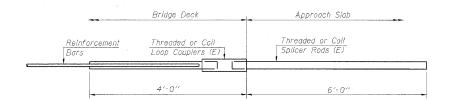
(E): Indicates epoxy coating.

cementing to steel forms.



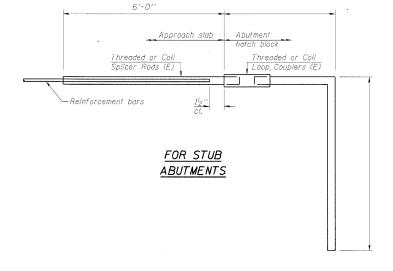
## BAR SPLICER ASSEMBLY ALTERNATIVES

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



## FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

<u> </u>	Bar	Splicer	for	#5	bar	_	
Min.	Capacity	= 23.0	kips	- 7	'ensio	η	
Min.	Pull-out	Strength	= 1	2.3	kips	-	tension
No.	Required	=					



Bar Splicer for #5 bar							
Min.	Capacity	= 23.0	kips	- 7	ensio	Λ	
Min.	Pull-out	Strength	= j	2.3	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 fied 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)

Where fy = Yield strength of lapped reinforcement bars.

\*\*Example 1.25 x fy x A<sub>1</sub>

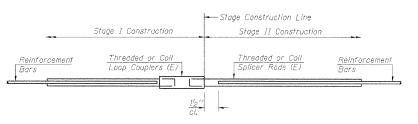
(Tension in kips)

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

A<sub>1</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'-2"	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		
#5	16	Deck		
#6	6	Deck		

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 016-0094

alfred benesch & company benesch Englineers - Surveyors - Planners 205 North Michigan Avenue, Suite 2400 Chicago, Illinois 60601 312-665-0450 Job Not. 10050

F.A.I. RTE. SECTION COUNTY SHEET NO. 8 290 (2727, ETC., 3131)RS-7 COOK 8 SHEETS CONTRACT NO. 60G53 FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

TOTAL SHEET NO. 216 166

MFB BSD-1

KWS

DESIGNED

CHECKED

CHECKED

10-1-08