Stage Construction Line

<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.

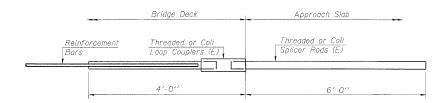
—Foam Plugs

Threaded or Coil Splicer Rods (E)

## BAR SPLICER ASSEMBLY ALTERNATIVES

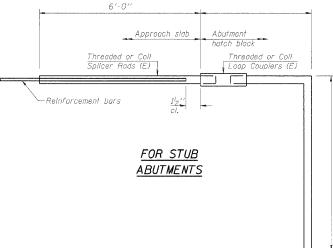
WELDED SECTIONS

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



## FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar	Splicer	for #	5 bar	
	Capacity				
Min.	Pull-out	Strength	= 12.	3 kips -	tension
No.	Required	=			



Min.	Capacity	= 23.0	kips -	tension	
	Pull-out				

<u>NOTES</u>

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 colled 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

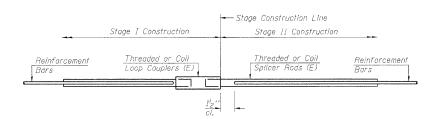
reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

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	CER ASSEMBLI	ES
		Strengt	h 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

#5 32 Deck #7 40 Deck	Bar Size	No. Assemblies Required	Location
#7 40 Deck	#5	32	Deck
	#7	40	Deck

## BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 022-0102

alfred benesch & company benesch Engineers - Surveyors - Planners 205 North Michigan Avenue, Suite 2400 Chicago, Illinois 60601 312-965-0450 Job No. 10050

SHEET NO. 9 10 SHEETS

TOTAL SHEET NO. SECTION COUNTY 22(1, 1-1, 2&3)RS-7 DUPAGE 546 298 CONTRACT NO. 60G51 FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

DESIGNED MFB CHECKED DRAWN RMG CHECKED KWS

BSD-1

10 - 1 - 08