

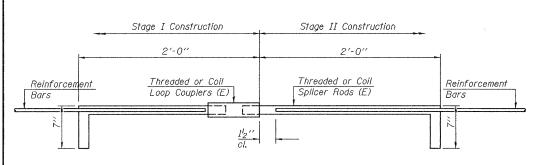
### Forms-Foam Plugs Washer Face <u>"B"</u> INSTALLATION AND SETTING METHODS "A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.

Templa

Rolt

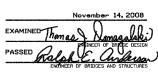
# SEMI-INTEGRAL ABUTMENTS

	Bai	Splicer	for #5	5 bar	
Min.	Capacity	= 23.0	kips -	tension	
Min.	Pull-out	Strength	= 12.3	3 kips -	tension



	Ва	r Spli	cer fo	r #6	bar	
Min.	Capacity	· = 33	3.1 kips	s - t	ension	
Min.	Pull-out	Strei	igth =	13.3	kips -	tension

DESIGNED Ray Ahanchi CHECKED Nick Barnett DRAWN BECKY M. LEACH GRA & NRB CHECKED



## 6'-0" Approach slab Abutment hatch block Threaded or Coil Threaded or Coil Splicer Rods (E) Loop Couplers (E) Reinforcement bars

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

- Stage Construction Line

Threaded or Coil Splicer Rods (E)

FOR STUB **ABUTMENTS** 

	Bat	Splicer	for #5	5 bar	
Min.	Capacity	= 23.0	kips -	tensio.	n
Min.	Pull-out	Strength	= 12.	3 kips	- tension
No.	Required	=			

TOTAL SHEET NO. 45 39 125BR Macon

SHEET NO. 27 29 SHEETS

Contract #74145

### 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 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,

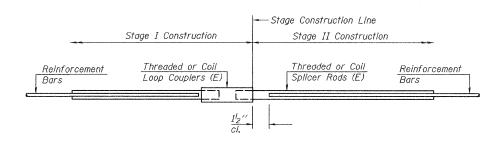
  (Tension in kips) = 1.25 x fy x A,

  Minimum \*Pull-out Strength = 0.66 x fy x A, (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

BAR SPLICER ASSEMBLIES					
	Splicer Rod or Dowel Bar Length	Strength Requirements			
Bar Size to be Spliced		Min. Capacity kips - tension	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		
# <u>11</u>	9'-0''	117.4	61.8		



#### STANDARD

Bar Size	No. Assemblies Required	Location	
#5	628	Deck	
#6	14	Abut. Diaph.	
#7	18	Abutment	
#7	18	Pier Cap	
#5	44	Pier Wall	
#4	8	Pier Diaph.	
#6	4	Pier Diaph.	

BAR SPLICER ASSEMBLY DETAILS F.A.S. ROUTE 1536 - SEC. 125BR MACON COUNTY STATION 616+26.50 STRUCTURE NO. 058-0132