Sheet No. 25 of 26 Sheets

FAU 7432 35 MACON 47 FED.ROAD DIST.NO.

• 08-00602-00-BR

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 (Tension in kips) = $1.25 \times fy \times A_t$

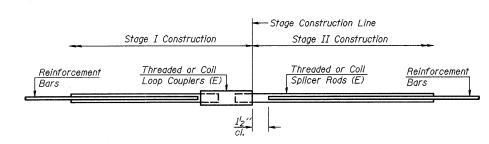
Minimum *Pull-out Strength (Tension in kips) = $0.66 \times fy \times A_t$

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

A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES		
	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		
#11	9'-0"	117.4	61.8		

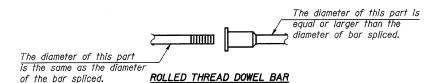


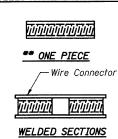
STANDARD

Bar Size	No. Assemblies Required	Location		
#5	596	Deck		
#6	16	Diaphragms		
#7	16	Abutments		
#5	<i>3</i> 6	Piers		
#7	20	Piers		
#4	50	Approach Slabs		
#5	172	Approach Slabs		

MACARTHUR ROAD (FAU 7432) OVER STEVENS CREEK

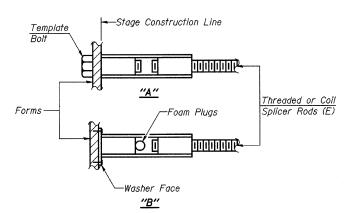
	E	BAR SPLICER ASSEMBLY DETAILS	5	
REVISIONS SECTION 08-00602-00-BR MACARTHUR ROAD (FAU 7432)			DRAWN BY DATE R KING 07/09	
io. DATE I	DATE INITIALS SN 058-6025			
1		STA 10+00.00 MACON COUNTY	JMB 07/09	
3		HOMER L DECATUR CHICAGO	BOOK NUMBER 486	
5		CHASTAIN (217) 422-8544 (775) 714-0050	PROJECT No.	
7		& ASSOCIATES LLP	5307	
8		CONSULTING ENGINEERS ROCKFORD (815) 489-0050	SHEET No.	
9		184-001897		





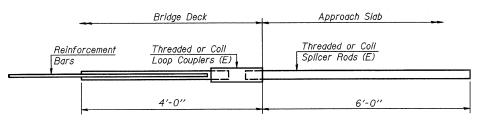
BAR SPLICER ASSEMBLY ALTERNATIVES

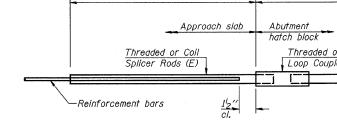
**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A" :Set bar splicer assembly by means of a template bolt. "B" :Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.





6'-0"

FOR STUB ABUTMENTS

Threaded or Coil

Loop Couplers (E)

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

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 = 64